

**Cable Management Systems**  
**Lighting Trunkings**  
**Electrical Systems**

#### New section devoted to WEB tools

BASOR has opened a new web portal especially devoted to installers and engineers. The portal contains different tools which shall help users solve issues such as the choosing of the adequate cable tray or support.

**Give it a try!**

#### Fixed structure photovoltaic electrical systems

BASOR has opened a new technical department which specialises in the development of fixed structures for photovoltaic electrical systems, both on the floor and on the ceiling. **Consult us!**

#### New support systems

BASOR has been trying for years to provide its clients with the most adequate product for their electrical systems without having to invest more than what is strictly necessary. For this reason, BASOR has launched products which complete their ranges so that the solution chosen fulfils all your needs.

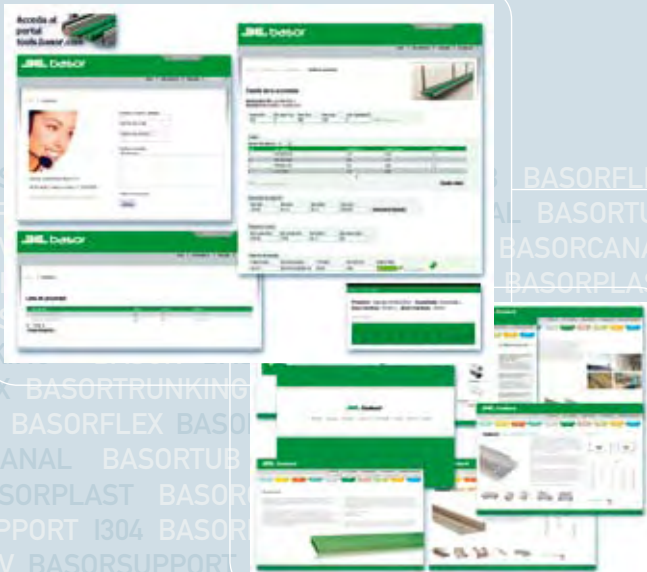
#### Fire-resistant cable conduction systems



BASOR has expanded the solutions available for emergency electrical systems where the evacuation systems must continue functioning in case of fire.

#### Conduit cable conduction system

New range of products for superficial electrical systems. Rigid conduits RE1250 and R1250 are adequate for all kinds of superficial electrical systems and have a minimum compression strength of 1250N. FLEXL flexible conduits have been designed to protect the cables in robots, spinning tables, solar trackers and, generally speaking, machinery which is in constant movement.

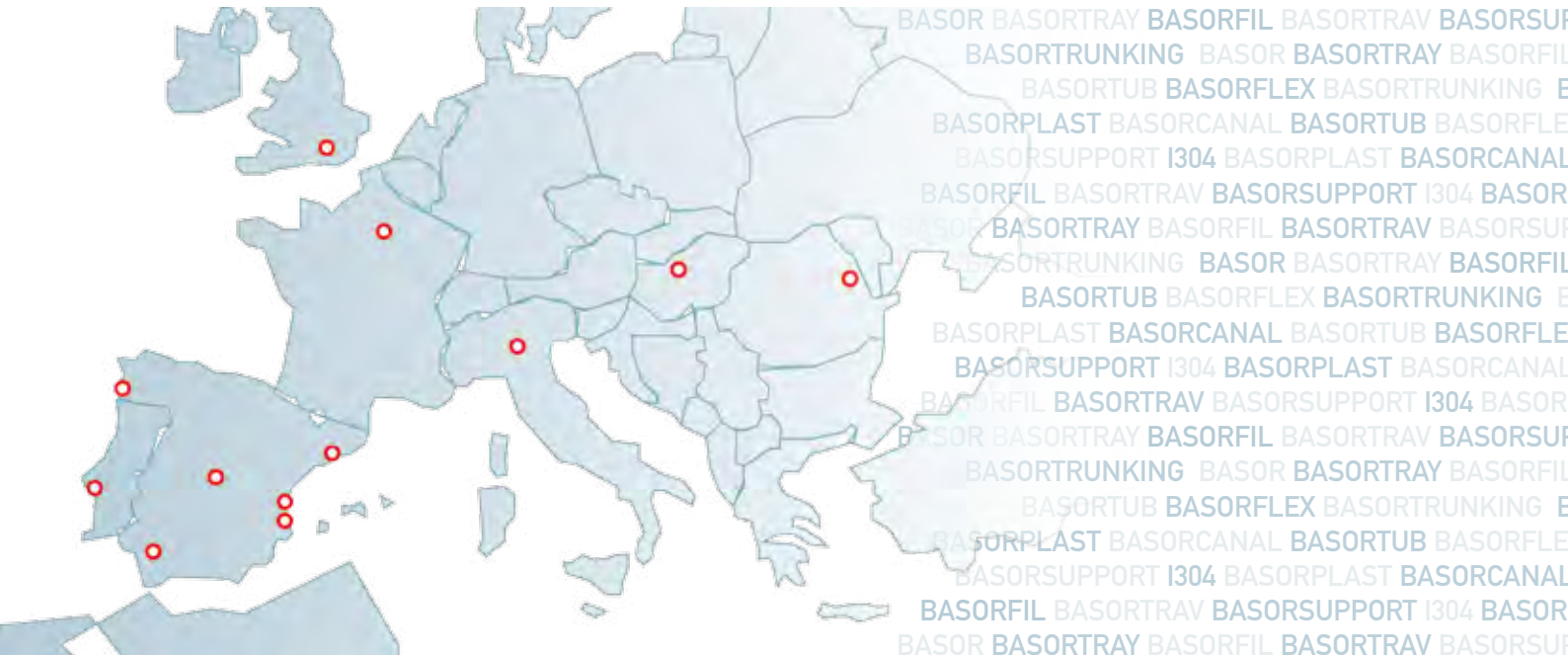


# NEWS

## THE COMPANY

**BE basor** seeks its client's success and is constantly investigating, developing and creating new products.

**BE basor** has been designed to supply in an efficient way.



**BE basor** is a recognised leader in the industry and has more than 30 years of experience in its sector.

**BE basor** offers an industrial compromise, seeking solutions within the industry.

**BE basor** offers the possibility of manufacturing products personalised for each client, fulfilling needs which the market fails to fulfil.

**BE basor** offers one of the broadest ranges of cable conduction systems in Europe.

### SCM

#### METALLIC CABLE CONDUCTION SYSTEMS

##### Carbon steels

- Metallic cable trays
- Metallic high load cable trays
- High load wire-mesh cable trays
- Wire-mesh cable trays
- Cable ladders
- Support systems

##### Stainless steels

- Cable trays
- High load wire-mesh cable trays

##### Aluminium

- Cable trays
- Cable ladders

### SCE

#### TRUNKING CABLE MANAGEMENT SYSTEMS

### SBT

#### INSULATING CONDUIT CABLE CONDUCTION SYSTEMS

- Insulating rigid conduit
- Insulating flexible conduit

### CEP

#### BUSBAR TRUNKING SYSTEMS

### SCP

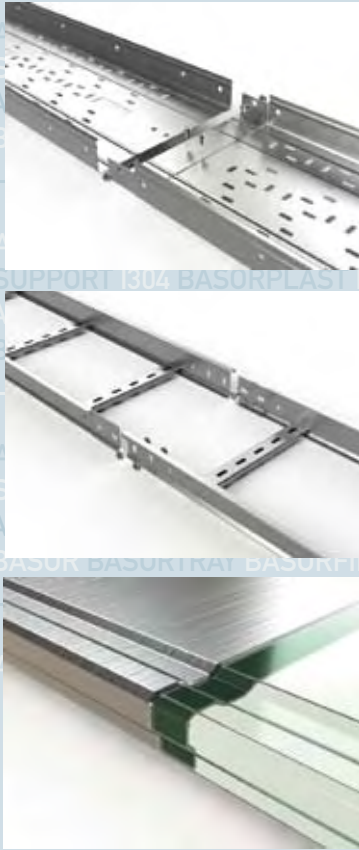
#### INSULATING CABLE CONDUCTION SYSTEMS

- Domestic minitrunkings
- PVC cable trays and trunkings

### ACC

#### INSTALLATION AND ASSEMBLY ACCESSORIES

## THE PRODUCTS



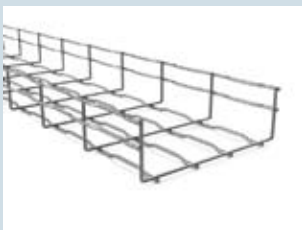
**SELF-ASSEMBLY** system for metallic cable trays and trunkings: The self-assembly system is the most efficient, economic and quick joining method for cable tray systems. Due to the fact that it doesn't require joint plate accessories, the installation time is reduced and the assembly becomes a much easier task. Two joint cable trays confer the union joint a rigidity which is much higher than those of traditional systems, avoiding the movements which happen between the two cable trays.

In the case of trunkings, the self-assembly system confers it a higher sealing degree. In the union between the two cable trays, one of them is placed inside the other, "sealing" the joint from the inside of the cable tray and hence avoiding the penetration of external agents. The covers have this same characteristic, avoiding in the same way the penetration of external agents as one cover is over the other and there is no space left between both covers. Moreover, this system guarantees a good trunking, even when the operator leaves the cable trays with a few millimetres of separation between them and, as the system overlaps, this allows the correction of such faults.

In all types of cable trays and trunkings, the joining of different stretches by way of self-assembly systems confers it a greater electrical continuity between the stretches, as the contact surface is greater.

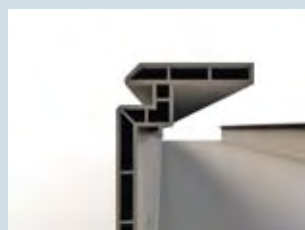
The models manufactured by Basor which deploy a self-assembly system are **ERE, FRE and FE** cable trays.

To sum it all up, the self-assembly system is the safest, **most economic and quick system for joining different stretches of cable trays.**



**HIGH LOADS BASORFIL system:** One of the main flaws of wire-mesh cable trays is the poor resistance to flexion which they have. Therefore, BASOR has designed a high loads system for BASORFIL BFR cable trays which confers the cable tray a resistance to flexion which is much higher than the resistance of conventional BASORFIL BF cable trays, where the wire-mesh cables are totally straight. Due to the wire-mesh cable's deflection, the BASORFIL BFR system is characterised by the high level of stiffness of the cable tray.

Moreover, BASORFIL BFR's exclusive design allows the level of the cables to be the same in the whole wire mesh, being safer than the conventional system, as it doesn't allow the cable to rest solely on the transversal wire-mesh cables.



**ALVEOLAR system:** The alveolar system belonging to the BASORPLAST BPI family confers the product a greater resistance to flexion/weight, facilitating its installation, manipulation and transport. Its excellent design in the shape of alveoli confers it a bending momento which is between 12 and 14 % greater than the bending momento of the conventional model, allowing alveolar cable trays to behave elastically in extreme situations where conventional cable trays behave plastically and have a risk of collapsing.



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 UNIT CONVERSION TABLE

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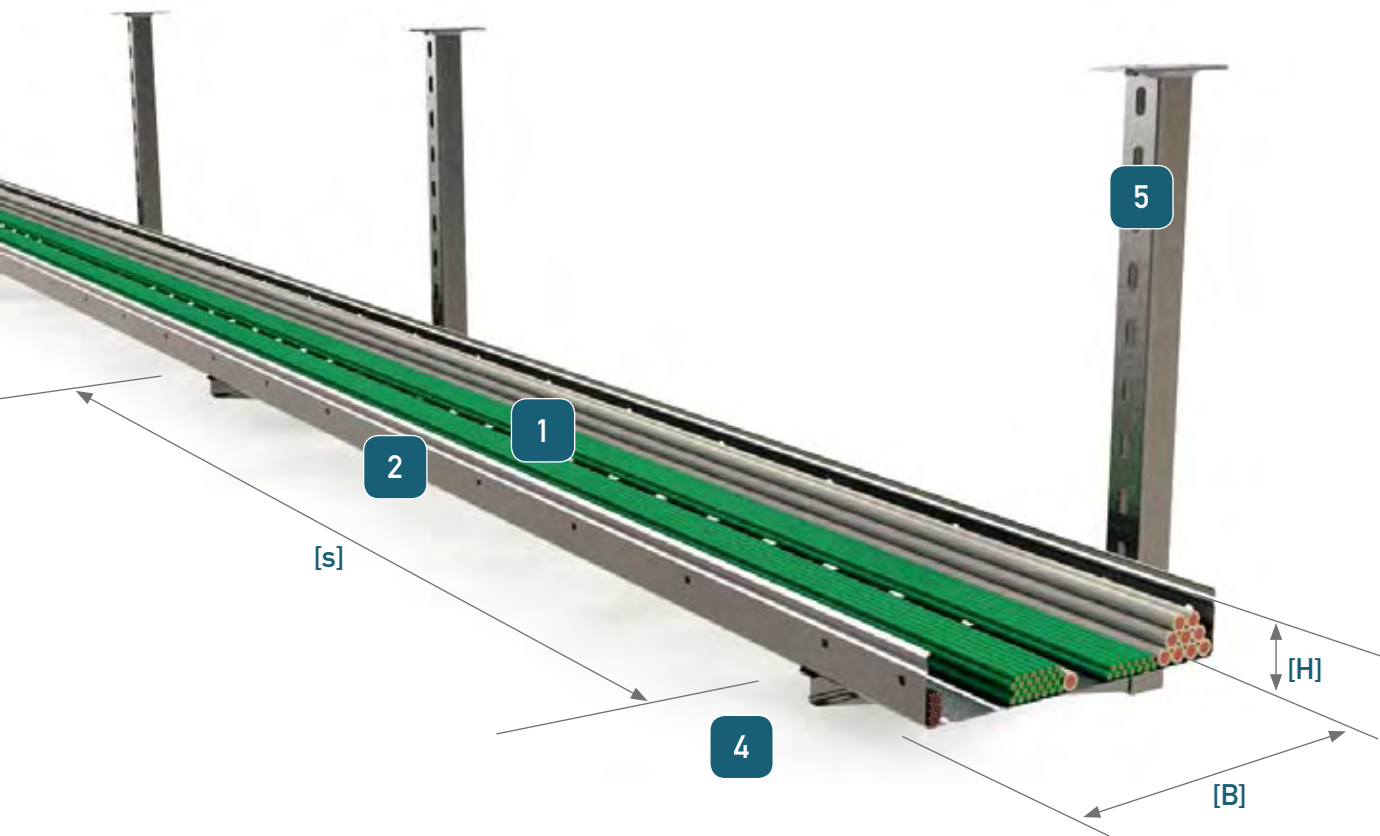
 TECHNICAL INDEX CARDS

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## ACRONYMS

| ACRONYM           | MEANING                                            | ACRONYM        | MEANING                        | ACRONYM       | MEANING                                       |
|-------------------|----------------------------------------------------|----------------|--------------------------------|---------------|-----------------------------------------------|
| <b>L</b>          | LENGTH                                             | <b>TR</b>      | THREADED ROD                   | <b>Dext</b>   | EXTERIOR DIAMETER                             |
| <b>BP</b>         | CABLE TRAY                                         | <b>Dc</b>      | DEFORMITY COEFFICIENT          | <b>Dint</b>   | INTERIOR DIAMETER                             |
| <b>BC</b>         | NON-PERFORATED CABLE TRAY                          | <b>Fmax</b>    | MAX. TORSION/COMPRESSION FORCE | <b>In (A)</b> | NOMINAL INSTENSITY (AMPS)                     |
| <b>SWL</b>        | SAVE WORKING LOAD                                  | <b>Mmax</b>    | MAX. BENDING MOMENT            | <b>(Hz)</b>   | FREQUENCY                                     |
| <b>Pap (Nm)</b>   | TORQUE IN Nm                                       | <b>Min T°</b>  | MIN. WORKING TEMPERATURE       | <b>3FN</b>    | 3 PHASES AND NEUTRAL                          |
| <b>B</b>          | BASE                                               | <b>Max T°</b>  | MAX. WORKING TEMPERATURE       | <b>FN</b>     | PHASE AND NEUTRAL                             |
| <b>H</b>          | HEIGHT                                             | <b>°C</b>      | DEGREES CELSIUS                | <b>A</b>      | AREA                                          |
| <b>UVM</b>        | MINIMUM SELLING UNIT                               | <b>IK</b>      | IK RATING                      | <b>Wx</b>     | MODULUS RESISTANT TO X                        |
| <b>UVE</b>        | PACKAGING SELLING UNIT                             | <b>IP</b>      | IP RATING                      | <b>Wy</b>     | MODULUS RESISTANT TO Y                        |
| <b>REF.</b>       | REFERENCE                                          | <b>A (cm²)</b> | USEFUL AREA                    | <b>Qreac</b>  | REACTION LOAD                                 |
| <b>e</b>          | THICKNESS                                          | <b>DN</b>      | NOMINAL DIAMETER               | <b>Reduc</b>  | % OF REDUCTION OF THE WORKING LOAD OF PROFILE |
| <b>A, B, ....</b> | ADDITIONAL DIMENSIONAL SIZES WITH TECHNICAL DETAIL | <b>Rcomp</b>   | COMPRESSION STRENGTH           | <b>Qtrac</b>  | TRACTION LOAD                                 |
| <b>PC</b>         | PC PROFILE                                         | <b>Rimp</b>    | IMPACT STRENGTH                |               |                                               |

The following points shall further develop the basic steps which have to be followed in order to establish the dimensions of a cable conduction system.



- 1 Calculating the weight and areas of the cables.
- 2 Choosing the type of conduction, material and covering.
- 3 Choosing the right cable tray  
[B] x [H]  
[s] Support span
- 4 Choosing a horizontal support.
- 5 Choosing a ceiling support.

## 1 CALCULATING THE WEIGHT AND AREAS OF THE CABLES

### 1.1. Defining the electrical connections and the conductors for each one

As an example of its design, we shall take an electrical connection of which we have all the data provided by the cable manufacturer:

#### EXAMPLE OF AN ELECTRICAL CONNECTION

| Nº of cables | Type   | exterior Ø (mm) | Weight (kg/m) |
|--------------|--------|-----------------|---------------|
| 10           | 3 x 16 | 17,1            | 0,70          |
| 4            | 3 x 25 | 20,8            | 1,10          |
| 4            | 3 x 50 | 26,4            | 1,86          |

### 1.2 Calculating the cable tray AREA (Amin) necessary for each cable conduction system

For this calculation, as the cable's real section does not reflect the useful area needed by the cable, the useful area of such cable shall be calculated as follows:

$$A_{\text{useful}} = \varnothing^2$$

With this data, adding up all of the useful sections of each cable and applying the security coefficient for future enlargements, the minimum area is obtained.

$$A_{\text{min}} = \left(1 + \frac{\text{C.S.}}{100}\right) \sum n \cdot A_{\text{useful}}$$

In the example which we are using, with a security coefficient of 40%, the results are as follows:

#### EXAMPLE OF AN ELECTRICAL CONNECTION

| N                 | Ø (mm) | A <sub>useful</sub> (mm²) | N x A <sub>useful</sub> |
|-------------------|--------|---------------------------|-------------------------|
| 10                | 17,1   | 292                       | 2920                    |
| 4                 | 20,8   | 433                       | 1732                    |
| 4                 | 26,4   | 697                       | 2788                    |
| <b>Subtotal</b>   |        |                           | 7440 mm²                |
| <b>40 % (SC)</b>  |        |                           | 2976 mm²                |
| <b>Amin (mm²)</b> |        |                           | 10416 mm²               |
| <b>Amin (cm²)</b> |        |                           | 104 cm²                 |

## 1.3 Calculating the LOAD [Qmin] (kg/m) for each cable conduction system

In order to do so, apply the following formula:

$$Q_{min} = \left(1 + \frac{C.S.}{100}\right) \sum n \cdot Weight$$

Esto es, en el caso que nos ocupa:

### EXAMPLE OF AN ELECTRICAL CONNECTION

| Nº                            | Weight (Kg/m) | n x Weight |
|-------------------------------|---------------|------------|
| 10                            | 0,70          | 7,00       |
| 4                             | 1,10          | 4,40       |
| 4                             | 1,86          | 7,44       |
| <b>Subtotal</b>               |               | 18,84 kg/m |
| <b>40 % (C.S.)</b>            |               | 7,54 k/m   |
| <b>Q<sub>min</sub> (kg/m)</b> |               | 26 k/m     |

## 2 CHOOSING THE TYPE OF CONDUCTION, MATERIAL AND COVERING

At this point, it's necessary to decide the [TYPOLOGY] of the cable tray which is going to be used. Nevertheless, one has to bear in mind that normally, in order to look for the most economic option, different types of cable trays shall have to be taken into consideration, as this parameter shall influence other aspects of the system such as the maximum support span and, therefore, the number of support needed and the time required for their assembly.

Depending on the type of conduction which you are seeking, you may consider the following alternatives:

### SCM

#### METALLIC CABLE CONDUCTION SYSTEMS

Metallic cable trays  
Metallic high load cable trays  
High load wire-mesh cable trays  
Wire-mesh cable trays  
Cable Ladder

### SCP

#### INSULATING CABLE CONDUCTION SYSTEM

PVC cable trays  
PVC trunkings

|                 | Interior |       |                   |               | Exterior |                   |               |
|-----------------|----------|-------|-------------------|---------------|----------|-------------------|---------------|
|                 | Dry      | Humid | Chemical Industry | Food Industry | Urban    | Chemical Industry | Food Industry |
| <b>GS</b>       | R        | L     | NR                | NR            | L        | NR                | NR            |
| <b>CINCADO</b>  | R        | L     | NR                | NR            | L        | NR                | NR            |
| <b>BICRO</b>    | R        | L     | NR                | NR            | L        | NR                | NR            |
| <b>GC</b>       | E        | R     | L                 | NR            | R        | L                 | L             |
| <b>GSE</b>      | R        | R     | R                 | R             | L        | L                 | NR            |
| <b>I304</b>     | E        | E     | R                 | R             | E        | R                 | L             |
| <b>PVCM1</b>    | R        | R     | R                 | R             | L        | L                 | L             |
| <b>PP7035</b>   | R        | R     | R                 | R             | R        | R                 | R             |
| <b>PA6</b>      | R        | R     | R                 | R             | R        | R                 | R             |
| <b>PA6-VO</b>   | R        | R     | R                 | R             | R        | R                 | R             |
| <b>PA12</b>     | R        | R     | R                 | R             | R        | R                 | R             |
| <b>GSP</b>      | R        | R     | L                 | R             | R        | L                 | R             |
| <b>GCE</b>      | E        | E     | R                 | R             | E        | R                 | R             |
| <b>I316</b>     | E        | E     | E                 | E             | E        | E                 | R             |
| <b>AL</b>       | E        | E     | R                 | R             | R        | R                 | R             |
| <b>AL6063T6</b> | E        | E     | R                 | R             | R        | R                 | R             |

R- Recommended / L- Limited Resistance / NR- Not Recommended / E- Excessive Quality

For additional information regarding the characteristics of each type of conduction or regarding the different finishes, consult the Technical Appendix (Page 193).

## 3 CHOOSING THE RIGHT CABLE TRAY

### Process to be repeated for each cable conduction system

#### Data to start off with:

- Q<sub>min</sub> y A<sub>min</sub> calculated in sections 1.2 and 1.3 respectively.
- [TYPOLOGY] selected in section 2.

#### Selection process:

- Go to the section of the catalogue which corresponds to the [TYPOLOGY] which you have selected. In the first page of the selected product, you shall find a table showing the useful areas.
- Choose a cable tray which fulfils the principle of [USEFUL AREA] > A<sub>min</sub>.
- Find the table of the corresponding product.
- Verify that the SWL (kg/m) of the tray chosen is > Q<sub>min</sub><sup>1</sup>.

<sup>1</sup>The catalogue displays the values of the SWL (Save Working Load) for the recommended support span [d]. To obtain the values of the [SWL] with other [d], consult the Technical Appendix.



In the example which is being developed:

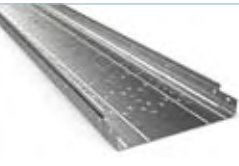
[TYPOLOGY] = ERE.  $A_{min} = 104 \text{ cm}^2$   $Q_{min} = 26 \text{ kg/m}$   $[d] = 1.5 \text{ m}$

Table showing ERE's useful areas (Page 20)

| B (mm) | AREA UTIL (cm <sup>2</sup> ) |     |     |      |
|--------|------------------------------|-----|-----|------|
|        | H35                          | H60 | H80 | H100 |
| 100    | 34                           | 59  | 78  | 98   |
| 150    | 51                           | 89  | 118 | 148  |
| 200    | 69                           | 119 | 158 | 198  |
| 300    | 103                          | 178 | 238 | 298  |
| 400    | -                            | 238 | 317 | 397  |
| 500    | -                            | 298 | 397 | 497  |
| 600    | -                            | 358 | 477 | 597  |

The first cable tray which complies with the conditions of  $A_{min} > 104 \text{ cm}^2$  is the B=200 mm and H=60 mm cable tray.

## BANDEJA DE CHAPA PERFORADA ERE H60

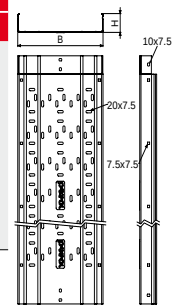


L = 3 m

| DESCRIPCION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>CTA (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/P ERE 100X60 | 3        | 24       | 100     | 60      | 85                  | 2/1197 | 0,95 | 2/1227 | 1,42 |
| B/P ERE 150X60 | 3        | 18       | 150     | 60      | 85                  | 2/1198 | 1,17 | 2/1228 | 1,74 |
| B/P ERE 200X60 | 3        | 12       | 200     | 60      | 85                  | 2/1199 | 1,46 | 2/1229 | 1,99 |
| B/P ERE 300X60 | 3        | 12       | 300     | 60      | 85                  | 2/1201 | 2,03 | 2/1231 | 2,56 |
| B/P ERE 400X60 | 3        | 6        | 400     | 60      | 100                 | 2/1202 | 2,86 | 2/1232 | 3,54 |
| B/P ERE 500X60 | 3        | 6        | 500     | 60      | 100                 | 2/1203 | 3,38 | 2/1233 | 4,19 |
| B/P ERE 600X60 | 3        | 6        | 600     | 60      | 100                 | 2/1204 | 3,91 | 2/1234 | 4,83 |

To assemble the cable trays, no couplers are needed. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

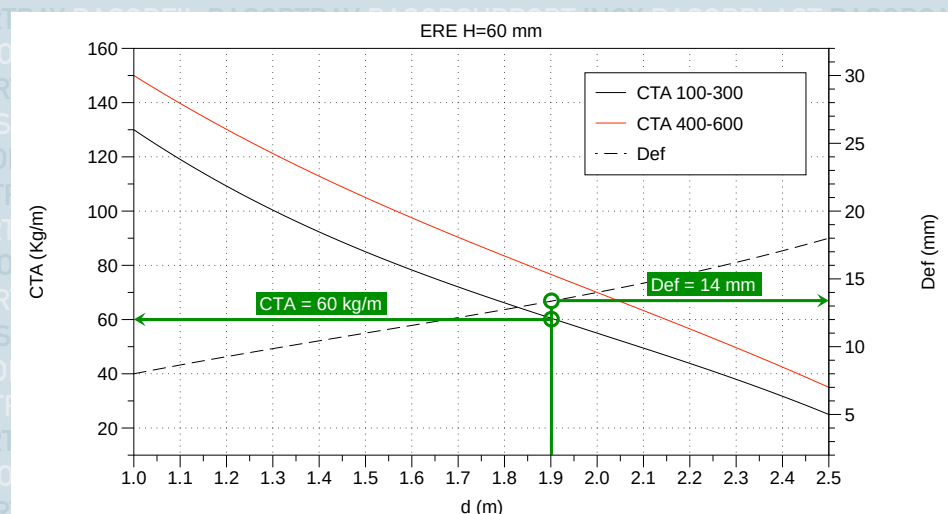
When cut has been done at the workplace, JUER H60 couplers, with reference number 2/2048 in GS or 2/2053 in GC must be used.



In this case, one must verify that the cable tray selected of B=200 mm and H=60 mm is valid, as the SWL and the support span [d] selected are less than  $Q_{min}$  ( $85 > 26$ ).

Should you want to increase the support span, browse through the Technical Appendix, where you will find that cable trays can also be supported (for example) every 1.9 meters. The SWL is approximately 60 kg/m, with a deflection of 14 mm in the centre of the span.

For the case which we are illustrating, we shall suppose that, due to construction limitations attributable to the project, the support span is fixed at 1.5 m.



## Output data:

- Cable tray model: Base [B] x Height [H] (example: B=200 and H=60 mm)
- Support span [d] (example: [d] = 1.5 m)

## 4 CHOOSING A HORIZONTAL SUPPORT

Process to be repeated for each cable conduction system

### Data to start off with:

- [B] Base of the cable tray (data to start off with quoted in the previous section)<sup>2</sup>.
- [d] Support span.
- $Q_{min}$  (section 1.3)

### Selection process:

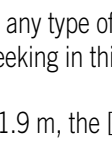
- Calculate  $[F] = [Q_{min}] \times [d]$
- Go to the corresponding SWL table<sup>3</sup> on the top part with the variable [B].
- All of the supports with a cell value greater than the [F] calculated in section "a" are valid.
- If the cable conduction systems' supports are fixed to the wall, the calculation ends here.

In the example shown, the calculation should be done as follows:

[B] = 200 (The cable tray chosen in the previous section was 200x60)

$[F] = [Q_{min}] \times [d] = 26 \text{ (kg/m)} \times 1.5 \text{ (m)} = 39$

Consulting the table:

|                 |                                                                                     | SWL (kg) WALL AND CURVED WALL SUPPORTS |     |     |     |     |     |     |     |
|-----------------|-------------------------------------------------------------------------------------|----------------------------------------|-----|-----|-----|-----|-----|-----|-----|
|                 |                                                                                     | B                                      |     |     |     |     |     |     |     |
| PRODUCT         |                                                                                     | 50                                     | 100 | 150 | 200 | 300 | 400 | 500 | 600 |
| SHO             |   | -                                      | 85  | 75  | 100 | 70  | -   | -   | -   |
| SCR             |  | 70                                     | 70  | 70  | 70  | 70  | 70  | 70  | 60  |
| SRB             |  | -                                      | 60  | 60  | 60  | 60  | 60  | 60  | 60  |
| SR WALL BRACKET |  | -                                      | -   | -   | -   | 120 | 110 | 100 | 80  |

Therefore, we may conclude that any type of BASOR's supports (all of the values of column B=200 are higher than the  $Q_{min}$ ) would be valid for the solution we are seeking in this case, including those which are cheaper such as SHO or SCR.

Should you have chosen a [d] = 1.9 m, the [F] = 50 kg, and therefore both models would have also been valid.

### Output data:

- Support for each cable conduction system: PRODUCT + Model [B]. Example: SHO or SCR both of 200.

<sup>1</sup>Should any obstacles need to be avoided and therefore a wider support is needed, this [B] shall be considered, and not that of the cable base. That is to say that, if in order to avoid a pillar the support needs to have a dimension of 300 even though the cable tray is only 200, the design should consider [B]=300.

<sup>2</sup>SCM/CARBON STEELS (Page 80)

SCM/STAINLESS (Page 124)

SCE (Page 136)

## 5 CHOOSING A CEILING SUPPORT

### Data to start off with:

- Number of cable conductions which the element is capable of supporting and layout.
- For each of the cable conduction systems:
  - [F] (number them [F1], [F2], [F3]...), obtained in section 4.a.
  - [B] (number them [B1], [B2], [B3]) obtained in section 3.

### A) Selection process when there are cable conductions only on one side of the pendant:

- a) Calculate  $[F_{eq}]$  = Addition of all Forces.

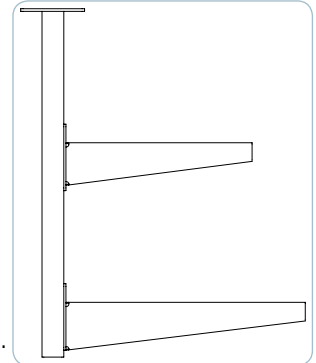
$$[F_{tot}] = \sum_i F_i$$

- b) Calculate  $[B_{eq}]$  = Maximum of all of the cable tray models.

$$[B_{eq}] = \max(B_i)$$

- c) Consult values in the corresponding pendant selection table<sup>4</sup> introducing variable [B].

- d) All of the supports with a cell value greater than the [Ftot] calculated in section "a" are valid.



In the example which we are using, if we suppose that, apart from the cable conduction system with which we were working previously, we also have a second cable conduction system working on the same side of the pendant with [F2] = 85 Kg y [B2] = 300, the result shall be:

$$[F_{eq}] = 39 + 85 = 124 \text{ Kg}$$

$$[B_{eq}] = \max(200; 300) = 300$$

Therefore, when consulting the ceiling supports' table for SCM/CARBON STEELS:

|                         |  | SWL (kg) CEILING SUPPORT                        |     |     |     |     |     |     |
|-------------------------|--|-------------------------------------------------|-----|-----|-----|-----|-----|-----|
| PRODUCT                 |  | B Horizontal support or width of the cable tray |     |     |     |     |     |     |
|                         |  | 50                                              | 100 | 150 | 200 | 300 | 400 | 500 |
| SHOT                    |  | -                                               | -   | 38  | 55  | 45  | 40  | -   |
| SHO 400                 |  | 85                                              | 69  | 58  | 50  | 39  | -   | -   |
| SVO + 2 VR8             |  | -                                               | -   | 270 | 220 | 200 | 160 | 130 |
| PC + WALL BRACKET (SR)  |  | 144                                             | 127 | 113 | 102 | 85  | 73  | 64  |
| PC + HEAD BRACKET (SCR) |  | 150                                             | 120 | 100 | 86  | 67  | 55  | 46  |
| SPL                     |  | 304                                             | 254 | 218 | 192 | 154 | 128 | 110 |

In this case the SVO is ruled out because the cable trays have different widths.

In conclusion the necessary pendant support for assembly will be the SPL. The horizontal supports of each line have been fixed at the pendant.

<sup>4</sup>SCM/CARBON STEELS - Page 84  
SCM/STAINLESS - Page 106  
SCP - Page 124  
SCE - Page 136

## B) Selection process when there are cable conductions on both sides of the pendant:

a) Calculate  $[F_{tot}]$  = Addition of all Forces.

$$[F_{tot}] = \sum_i F_i$$

b) Calculate  $[M_{right}]$  = Addition of all momentums on right side.

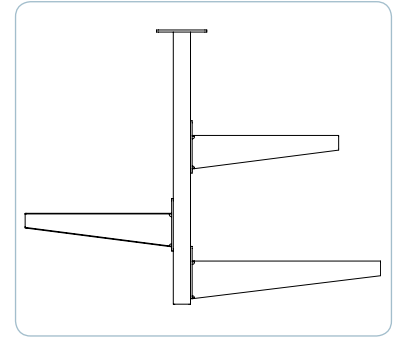
$$[M_{right}] = \sum_i F_{i_{right}} \times \left( \frac{B_{i_{right}} + 50}{2000} \right)$$

c) Calculate  $[M_{left}]$  = Addition of all momentums on left side.

$$[M_{left}] = \sum_i F_{i_{left}} \times \left( \frac{B_{i_{left}} + 50}{2000} \right)$$

d) Calculate  $[M_{eq}]$  = Equivalent momentum =  $[M_{der}] - [M_{left}]$ .

e) Consult the Safe Area Graphs (ZS) for each pendant<sup>5</sup> and check if they are within the  $[F_{tot}, M_{eq}]$  safe area.



In order to complete the abovementioned example, we shall suppose that, apart from the two cable conduction systems mentioned previously, there is a third one located opposite the two first systems, from which we know that  $[B3] = 400$ ,  $[F] = 60$  Kg.

| LEFT        | RIGHT       |
|-------------|-------------|
| P3 = 60 kg  | F1 = 39 kg  |
| B3 = 400 mm | B1 = 200 mm |
|             | F2 = 85 kg  |
|             | B2 = 300 mm |

Taking this data into account, the calculation would be as follows:

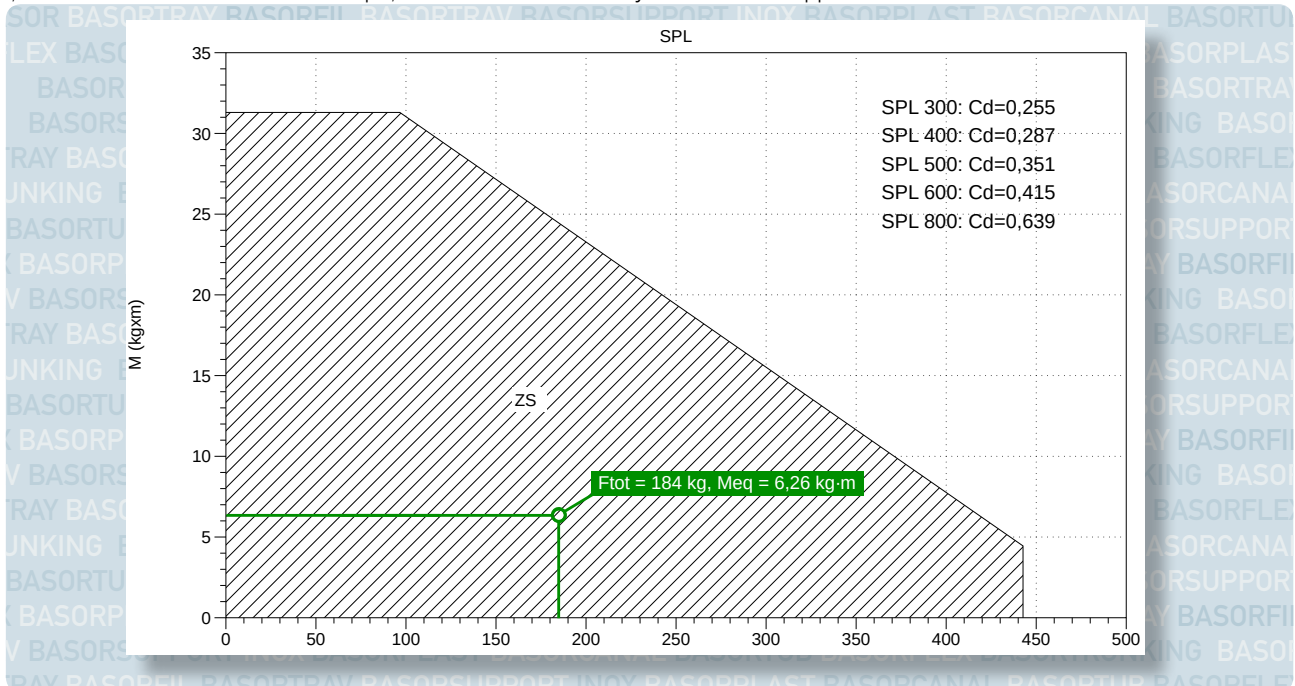
$$[F_{tot}] = [F1] + [F2] + [F3] = 39 + 85 + 60 = \mathbf{184 \text{ Kg}}$$

$$[M_{right}] = [F1 \times (B1+50)/2000] + [F2 \times (B2+50)/2000] = 4,88 + 14,88 = 19,76 \text{ Kg}\cdot\text{m}$$

$$[M_{left}] = [F3 \times (B3+50)/2000] = 13,5 \text{ Kg}\cdot\text{m}$$

$$[M_{eq}] = 19,89 - 13,5 = \mathbf{6,26 \text{ kg}\cdot\text{m}}$$

And, if we check with the Safe Area Graph, we shall be able to verify that the SPL support is also suitable.



Moreover, if we already know that a model 600 is needed, by applying the deflection coefficient (Dc), the vertical element's deflection can be calculated:

$$\text{Deflection} = [M_{eq}] \times [Cd] = 6,26 \times 0,351 = 2,20 \rightarrow 3 \text{ mm.}$$

<sup>5</sup> Graphs can be consulted in the Technical Appendix.

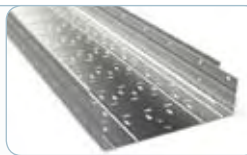
# SCM

## Metallic Cable Conduction Systems

CARBON STEELS

### BASORTRAY

- Metallic cable trays
- Metallic high load cable trays



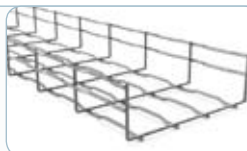
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### BASORFIL

- High loads wire-mesh cable trays
- Wire-mesh cable trays



50-59

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### BASORTRAV

- FE Cable ladder
- British Standard Ladder (BSL)



60-77

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### BASORSUPPORT

- Wall and curved wall supports
- Ceiling supports
- Floor supports



78-93

80-83

84-88

89-91

1304

### BASORTRAY

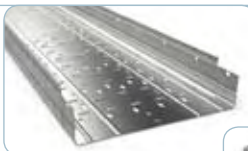
- Metallic cable trays

### BASORFIL

- High loads wire-mesh cable trays

### BASORSUPPORT

- Supports



96-99

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ALUMINIUM

### BASORTRAY

- Metallic cable trays

### BASORTRAV

- Cable ladders



110-111

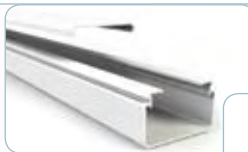
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# SCP

## Insulating Cable Conduction Systems

### BASORPLAST

- BPB, PVC domestic minitrunkings
- BPI, Industrial PVC trunkings and cable trays



114-115

116-123

### BASORSUPPORT

- SCP supports

124-126



# SCE

## Trunking Cable Management Systems

**BASORCANAL CT**



130-135

**BASORSUPPORT SCE**



136-137

# SBT

## Insulating Conduit Cable Conduction Systems

**BASORTUB**

- PVC and RLH rigid conduits



140-141

**BASORFLEX**

- Polyamide flexible conduits



142-145

# CEP

## Busbar System

**BASORTRUNKING**



146-151

# ACC

## Installation and Assembly Accessories

- 41/82 Assembly systems
- Assembly profiles
- Wall fixation profiles
- Beam fixation elements
- Threaded elements
- Concrete anchors
- Conduit fixation elements



154-161

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# SOLAR

## Solar Energy Fixed Structures



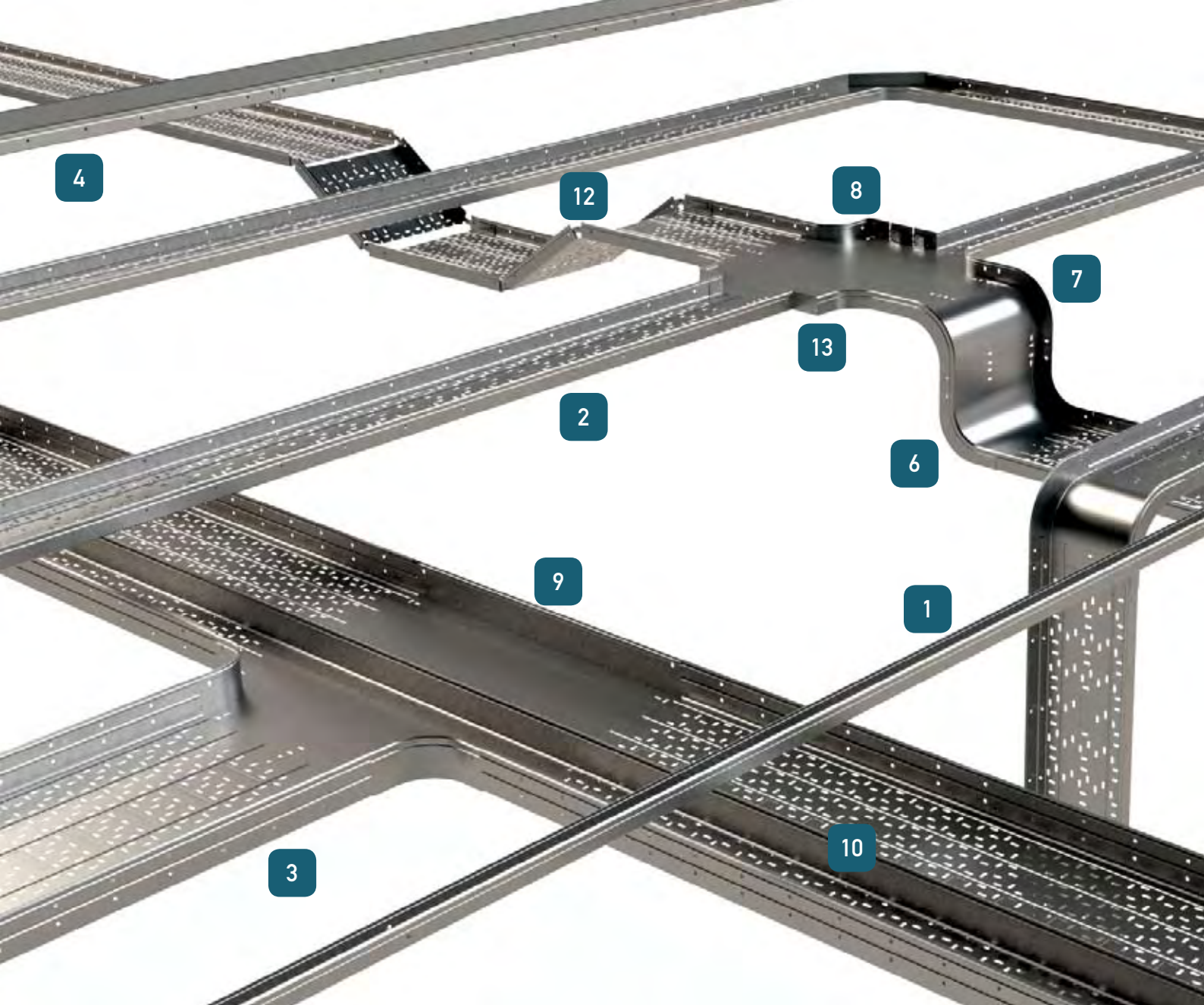
171-180

# FIRE

## Fire Resistant Assemblies



181-188



- 1. ER Cable tray
- 2. ERE Cable tray
- 3. FRE Cable tray
- 4. ERE Cover
- 5. CPERC Horizontal bend
- 6. CCERC Vertical inside
- 7. CXERC Vertical outside
- 8. CREC Cross Intersection
- 9. TERC T Intersection
- 10. PS Divider profile
- 11. AS Accessory
- 12. JUER-A Articulation joint
- 13. REER Reduction

# SCM





## METALLIC CABLE TRAYS

|                           |         |
|---------------------------|---------|
| ER .....                  | Page 16 |
| ER Assemblies .....       | Page 19 |
| ERE .....                 | Page 20 |
| ERE/FRE Accessories ..... | Page 24 |
| ERE Assemblies .....      | Page 31 |

## METALLIC HIGH LOAD CABLE TRAYS

|                         |         |
|-------------------------|---------|
| FRE .....               | Page 32 |
| FRE Assemblies .....    | Page 35 |
| BS .....                | Page 36 |
| BS Accessories .....    | Page 37 |
| BS Assemblies .....     | Page 39 |
| U .....                 | Page 40 |
| OME .....               | Page 42 |
| U/OME Accessories ..... | Page 45 |
| U/OME Assemblies .....  | Page 48 |

- BASORTRAY is our range of metallic cable trays.  
The main feature of these products is the high resistance to bending/cost of the smaller models.
- It's BASOR's broadest range, as with its 6 models it covers all need from the most basic ones to those demanded by petrochemical companies.

# BASORTRAY

**GS / GC**



1

2

3

4

- 1 Longitudinal reinforcements to improve Resistance to flexure.
- 2 Security edge to avoid accidents during set-up.
- 3 Corners finished at 45° to improve behaviour to flexure.
- 4 Pressure-fixed covers. No accessories required.

| USEFUL AREA (cm <sup>2</sup> ) |     |
|--------------------------------|-----|
| B (mm)                         | H50 |
| 50                             | 24  |

ER P+SBC+VR8



ER P+SCR50



ER50 P+COVER+2SBC+SBL+VR8



## ER 50 PERFORATED METALLIC CABLE TRAYS

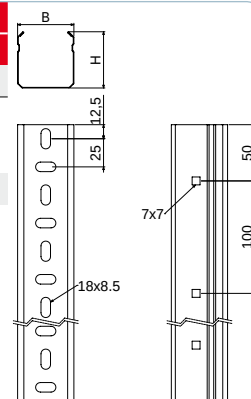


L = 3 m

| DESCRIPTION  | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|--------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|              |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/P ER 50X50 | 3        | 36       | 50      | 50      | 20                  | 2/1191 | 0,65 | 2/1221 | 0,71 |

To assemble the cable trays, one JUER 50 must be used with reference number 2/2051 in GS or 2/5056 in GC. Each piece requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

For more technical information, please consult page 211.



## ER 50 NON-PERFORATED METALLIC CABLE TRAYS



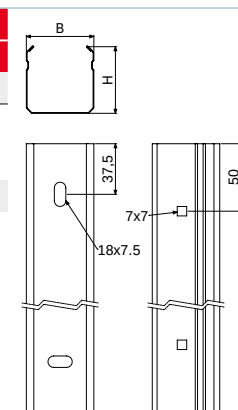
L = 3 m

| DESCRIPTION  | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|--------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|              |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/C ER 50X50 | 3        | 36       | 50      | 50      | 20                  | 2/1251 | 0,69 | 2/1281 | 0,88 |

To assemble the cable trays, one JUER 50 must be used with reference number 2/2051 in GS or 2/5056 in GC. Each piece requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

When cutting on site is necessary to drill the base or depth to fix the union.

For more technical information, please consult page 211.



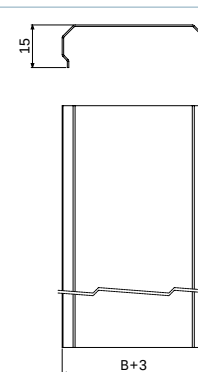
## ER 50 COVER



L = 3 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | GS     |      | GC     |      |
|-------------|----------|----------|---------|--------|------|--------|------|
|             |          |          |         | REF.   | kg/m | REF.   | kg/m |
| ER 50 COVER | 3        | 36       | 50      | 2/1311 | 0,33 | 2/1320 | 0,43 |

To mount the cover **no accessories are needed. Fixed by pressure.**

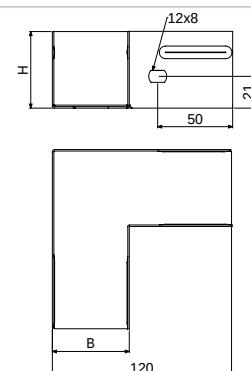


## ER 50 HORIZONTAL BEND



| DESCRIPTION         | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       |
|---------------------|-----------|-----------|---------|---------|--------|-------|
|                     |           |           |         |         | REF.   | kg/ud |
| CURVA CPER 50x50 GS | 1         | 1         | 50      | 50      | 2/3235 | 0,26  |

To assemble the horizontal bend, one JUER 50 must be used with reference number 2/2051 in GS or 2/5056 in GC. Each piece requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).



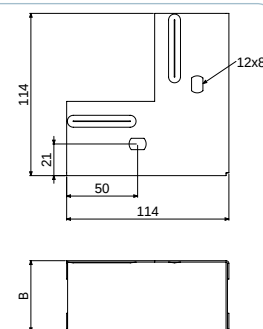


## ER 50 VERTICAL INSIDE



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       |
|-----------------|-----------|-----------|---------|---------|--------|-------|
|                 |           |           |         |         | REF.   | kg/ud |
| BEND CCER 50x50 | 1         | 1         | 50      | 50      | 2/3236 | 0,27  |

To assemble the vertical inside, one JUER 50 must be used with reference number 2/2051 in GS or 2/5056 in GC. Each piece requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

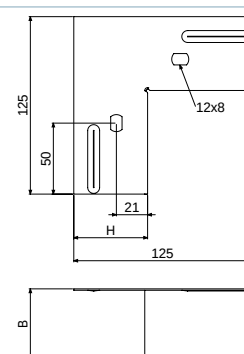


## ER 50 VERTICAL OUTSIDE



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       |
|-----------------|-----------|-----------|---------|---------|--------|-------|
|                 |           |           |         |         | REF.   | kg/ud |
| BEND CXER 50x50 | 1         | 1         | 50      | 50      | 2/3238 | 0,24  |

To assemble the vertical outside, one JUER 50 must be used with reference number 2/2051 in GS or 2/5056 in GC. Each piece requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

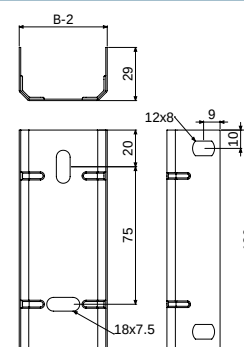


## JUER 50 UNION



| DESCRIPTION        | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|--------------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|                    |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| J/UNION JUER 50x50 | 1         | 250       | 50      | 50      | 2/2051 | 0,09  | 2/2056 | 0,01  |

To assemble the coupler, requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

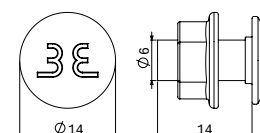


## B1 BOLT SET



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | Pap<br>Nm | CINCADO |       | GC     |       |
|-------------------|-----------|-----------|-----------|---------|-------|--------|-------|
|                   |           |           |           | REF.    | kg/ud | REF.   | kg/ud |
| B1 bolt set M6x14 | 1         | 1         | 6         | 2/4356  | 1,00  | 2/6826 | 1,00  |

The B1 bolt set consists of a M6x14 DIN 603 mushroom head square neck bolt and a M6 DIN 6923 flange nut with serration for a perfect fit. Used to mount all accessories BASORTRAY Series.



## ER MOUNTS

JUER 50 COUPLER



ER 50 HORIZONTAL BEND



ER 50 VERTICAL INSIDE



ER 50 VERTICAL OUTSIDE



ER P+SBC+VR8



SBC - Page 167  
VR8 - Page 166

ER P+SCR50

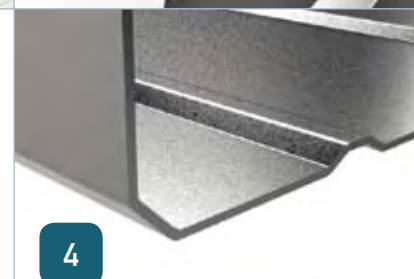


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ER50 P+TAPA+2SBC+SBL+VR8



SBC - Page 167  
SBL - Page 167  
VR8 - Page 166

P | PATENTED  
9800892

1 SELF-ASSEMBLY fixation system between cable trays.

- No couplers needed
- Easier to install
- Less time required for installation
- Union with higher degree of rigidity

2 Longitudinal reinforcements to improve Resistance to flexure.

3 Security edge to avoid accidents during set-up.

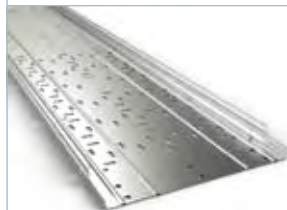
4 Corners finished at 45° to improve behaviour to flexure.

5 Pressure-fixed covers. No accessories required.

6 Accessories with circular insides to avoid damaging the cables.

| B (mm) | USEFUL AREA (cm <sup>2</sup> ) |     |     |      |
|--------|--------------------------------|-----|-----|------|
|        | H35                            | H60 | H80 | H100 |
| 100    | 34                             | 59  | 78  | 98   |
| 150    | 51                             | 89  | 118 | 148  |
| 200    | 69                             | 119 | 158 | 198  |
| 300    | 103                            | 178 | 238 | 298  |
| 400    | -                              | 238 | 317 | 397  |
| 500    | -                              | 298 | 397 | 497  |
| 600    | -                              | 358 | 477 | 597  |

## ERE H35 PERFORATED METALLIC CABLE TRAY



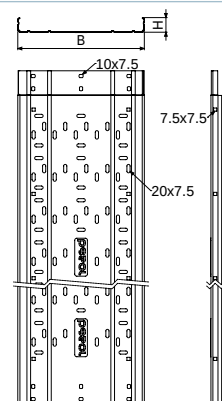
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/P ERE 100X35 | 3        | 30       | 100     | 35      | 70                  | 2/1192 | 0,74 | 2/1222 | 1,1  |
| B/P ERE 150X35 | 3        | 24       | 150     | 35      | 70                  | 2/1193 | 0,95 | 2/1223 | 1,42 |
| B/P ERE 200X35 | 3        | 18       | 200     | 35      | 70                  | 2/1194 | 1,12 | 2/1224 | 1,67 |
| B/P ERE 300X35 | 3        | 12       | 300     | 35      | 70                  | 2/1195 | 1,64 | 2/1225 | 2,24 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts (6 in the case of model 300), with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H35 couplers, with reference number 2/2047 in GS or 2/2052 in GC, must be used.

For more technical information, please consult page 211.



## ERE H35 NON-PERFORATED METALLIC CABLE TRAY



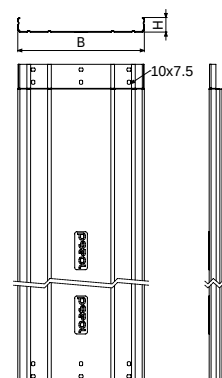
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/C ERE 100X35 | 3        | 30       | 100     | 35      | 70                  | 2/1252 | 0,76 | 2/1282 | 1,14 |
| B/C ERE 150X35 | 3        | 24       | 150     | 35      | 70                  | 2/1253 | 0,98 | 2/1283 | 1,46 |
| B/C ERE 200X35 | 3        | 18       | 200     | 35      | 70                  | 2/1254 | 1,20 | 2/1284 | 1,78 |
| B/C ERE 300X35 | 3        | 12       | 300     | 35      | 70                  | 2/1255 | 1,77 | 2/1285 | 2,42 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts (6 in the case of model 300), with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H35 couplers, with reference number 2/2047 in GS or 2/2052 in GC, must be used.

For more technical information, please consult page 211.



## ERE H60 PERFORATED METALLIC CABLE TRAY



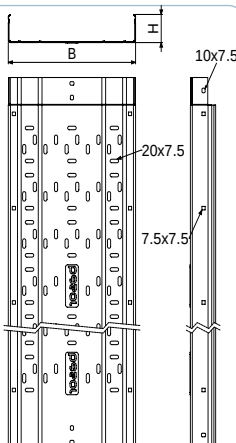
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/P ERE 100X60 | 3        | 24       | 100     | 60      | 85                  | 2/1197 | 0,95 | 2/1227 | 1,42 |
| B/P ERE 150X60 | 3        | 18       | 150     | 60      | 85                  | 2/1198 | 1,17 | 2/1228 | 1,74 |
| B/P ERE 200X60 | 3        | 12       | 200     | 60      | 85                  | 2/1199 | 1,46 | 2/1229 | 1,99 |
| B/P ERE 300X60 | 3        | 12       | 300     | 60      | 85                  | 2/1201 | 2,03 | 2/1231 | 2,56 |
| B/P ERE 400X60 | 3        | 6        | 400     | 60      | 100                 | 2/1202 | 2,86 | 2/1232 | 3,54 |
| B/P ERE 500X60 | 3        | 6        | 500     | 60      | 100                 | 2/1203 | 3,38 | 2/1233 | 4,19 |
| B/P ERE 600X60 | 3        | 6        | 600     | 60      | 100                 | 2/1204 | 3,91 | 2/1234 | 4,83 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

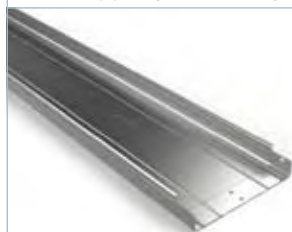
Should the union between the parts when cut be done at the workplace, JUER H60 couplers, with reference number 2/2048 in GS or 2/2053 in GC, must be used.

For more technical information, please consult page 211.





## ERE H60 NON-PERFORATED METALLIC CABLE TRAY



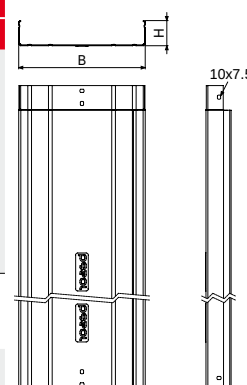
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/C ERE 100X60 | 3        | 24       | 100     | 60      | 85                  | 2/1257 | 0,98 | 2/1287 | 1,46 |
| B/C ERE 150X60 | 3        | 18       | 150     | 60      | 85                  | 2/1258 | 1,20 | 2/1288 | 1,78 |
| B/C ERE 200X60 | 3        | 12       | 200     | 60      | 85                  | 2/1259 | 1,54 | 2/1289 | 2,10 |
| B/C ERE 300X60 | 3        | 12       | 300     | 60      | 85                  | 2/1261 | 2,18 | 2/1291 | 2,75 |
| B/C ERE 400X60 | 3        | 6        | 400     | 60      | 100                 | 2/1262 | 3,10 | 2/1292 | 3,84 |
| B/C ERE 500X60 | 3        | 6        | 500     | 60      | 100                 | 2/1263 | 3,69 | 2/1293 | 4,57 |
| B/C ERE 600X60 | 3        | 6        | 600     | 60      | 100                 | 2/1264 | 4,28 | 2/1294 | 5,30 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H60 couplers, with reference number 2/2048 in GS or 2/2053 in GC, must be used.

For more technical information, please consult page 211.



## ERE H80 PERFORATED METALLIC CABLE TRAY



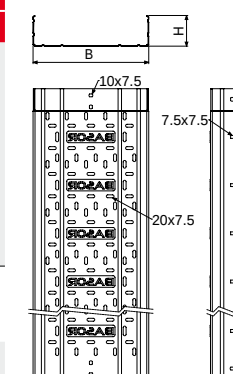
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/P ERE 100X80 | 3        | 24       | 100     | 80      | 115                 | 2/1205 | 1,12 | 2/1235 | 1,68 |
| B/P ERE 150X80 | 3        | 18       | 150     | 80      | 115                 | 2/1206 | 1,34 | 2/1236 | 2,00 |
| B/P ERE 200X80 | 3        | 12       | 200     | 80      | 115                 | 2/1207 | 1,64 | 2/1237 | 2,24 |
| B/P ERE 300X80 | 3        | 12       | 300     | 80      | 115                 | 2/1209 | 2,23 | 2/1239 | 3,19 |
| B/P ERE 400X80 | 3        | 6        | 400     | 80      | 130                 | 2/1210 | 3,10 | 2/1240 | 3,83 |
| B/P ERE 500X80 | 3        | 6        | 500     | 80      | 130                 | 2/1211 | 3,86 | 2/1241 | 5,50 |
| B/P ERE 600X80 | 3        | 6        | 600     | 80      | 130                 | 2/1212 | 5,52 | 2/1242 | 6,29 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H80 couplers, with reference number 2/2049 in GS or 2/2054 in GC, must be used.

For more technical information, please consult page 211.



## ERE H80 NON-PERFORATED METALLIC CABLE TRAY



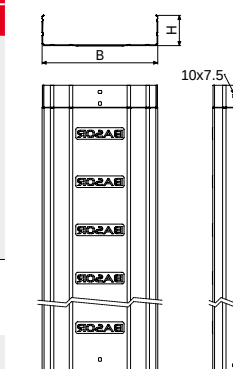
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/C ERE 100X80 | 3        | 24       | 100     | 80      | 115                 | 2/1265 | 1,15 | 2/1295 | 1,72 |
| B/C ERE 150X80 | 3        | 18       | 150     | 80      | 115                 | 2/1266 | 1,37 | 2/1296 | 2,03 |
| B/C ERE 200X80 | 3        | 12       | 200     | 80      | 115                 | 2/1267 | 1,73 | 2/1297 | 2,36 |
| B/C ERE 300X80 | 3        | 12       | 300     | 80      | 115                 | 2/1269 | 2,38 | 2/1299 | 3,40 |
| B/C ERE 400X80 | 3        | 6        | 400     | 80      | 130                 | 2/1270 | 3,34 | 2/1300 | 4,13 |
| B/C ERE 500X80 | 3        | 6        | 500     | 80      | 130                 | 2/1271 | 4,19 | 2/1301 | 5,97 |
| B/C ERE 600X80 | 3        | 6        | 600     | 80      | 130                 | 2/1272 | 6,02 | 2/1302 | 6,86 |

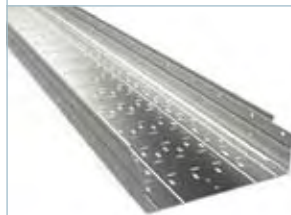
To assemble the cable trays, no couplers are needed. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H80 couplers, with reference number 2/2049 in GS or 2/2054 in GC, must be used.

For more technical information, please consult page 211.



## ERE H100 PERFORATED METALLIC CABLE TRAY



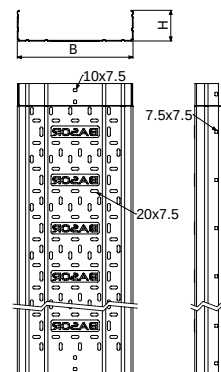
L = 3 m

| DESCRIPTION     | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|-----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                 |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/P ERE 100X100 | 3        | 18       | 100     | 100     | 125                 | 2/1213 | 1,3  | 2/1243 | 1,93 |
| B/P ERE 150X100 | 3        | 12       | 150     | 100     | 125                 | 2/1214 | 1,51 | 2/1244 | 2,25 |
| B/P ERE 200X100 | 3        | 12       | 200     | 100     | 125                 | 2/1215 | 1,83 | 2/1245 | 2,5  |
| B/P ERE 300X100 | 3        | 12       | 300     | 100     | 125                 | 2/1217 | 2,44 | 2/1247 | 3,48 |
| B/P ERE 400X100 | 3        | 6        | 400     | 100     | 145                 | 2/1218 | 3,33 | 2/1248 | 4,13 |
| B/P ERE 500X100 | 3        | 6        | 500     | 100     | 145                 | 2/1219 | 4,11 | 2/1249 | 5,86 |
| B/P ERE 600X100 | 3        | 6        | 600     | 100     | 145                 | 2/1220 | 5,84 | 2/1250 | 6,65 |

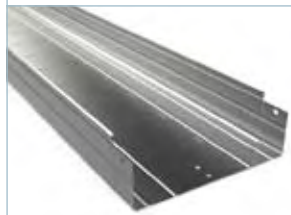
To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H100 couplers, with reference number 2/2050 in GS or 2/2055 in GC, must be used.

For more technical information, please consult page 211.



## ERE H100 NON-PERFORATED METALLIC CABLE TRAY



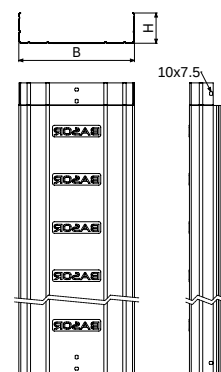
L = 3 m

| DESCRIPTION     | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | GS     |      | GC     |      |
|-----------------|----------|----------|---------|---------|---------------------|--------|------|--------|------|
|                 |          |          |         |         |                     | REF.   | kg/m | REF.   | kg/m |
| B/C ERE 100X100 | 3        | 18       | 100     | 100     | 125                 | 2/1273 | 1,33 | 2/1303 | 1,97 |
| B/C ERE 150X100 | 3        | 12       | 150     | 100     | 125                 | 2/1274 | 1,54 | 2/1304 | 2,30 |
| B/C ERE 200X100 | 3        | 12       | 200     | 100     | 125                 | 2/1275 | 1,92 | 2/1305 | 2,62 |
| B/C ERE 300X100 | 3        | 12       | 300     | 100     | 125                 | 2/1277 | 2,59 | 2/1307 | 3,69 |
| B/C ERE 400X100 | 3        | 6        | 400     | 100     | 145                 | 2/1278 | 3,57 | 2/1308 | 4,42 |
| B/C ERE 500X100 | 3        | 6        | 500     | 100     | 145                 | 2/1279 | 4,44 | 2/1309 | 6,33 |
| B/C ERE 600X100 | 3        | 6        | 600     | 100     | 145                 | 2/1280 | 6,33 | 2/1310 | 7,22 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H100 couplers, with reference number 2/2050 in GS or 2/2055 in GC, must be used.

For more technical information, please consult page 211.

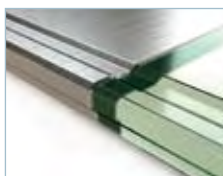


## COVER ERE FOR METALLIC CABLE TRAY



L = 3 m

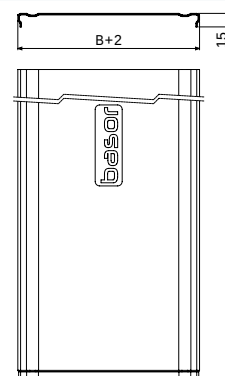
(400/500/600 - L = 2 m)



| DESCRIPTION  | UVM<br>m | UVE<br>m | B<br>mm | GS     |       | GC     |      |
|--------------|----------|----------|---------|--------|-------|--------|------|
|              |          |          |         | REF.   | kg/m  | REF.   | kg/m |
| TAPA ERE 100 | 3        | 24       | 100     | 2/1312 | 0,549 | 2/1321 | 0,82 |
| TAPA ERE 150 | 3        | 24       | 150     | 2/1313 | 0,76  | 2/1322 | 1,14 |
| TAPA ERE 200 | 3        | 24       | 200     | 2/1314 | 0,98  | 2/1323 | 1,46 |
| TAPA ERE 300 | 3        | 18       | 300     | 2/1316 | 1,544 | 2/1325 | 2,11 |
| TAPA ERE 400 | 2        | 12       | 400     | 2/1317 | 2,184 | 2/1326 | 2,75 |
| TAPA ERE 500 | 2        | 8        | 500     | 2/1318 | 3,11  | 2/1327 | 3,85 |
| TAPA ERE 600 | 2        | 8        | 600     | 2/1319 | 3,947 | 2/1328 | 4,58 |

To mount the cover **no accessories are needed**. Fixed by pressure.

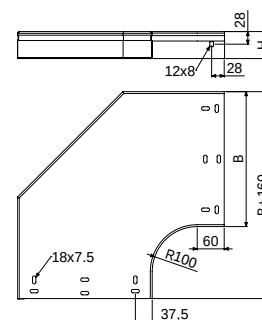
The covers are self-assembly to improve its degrees of protection (IP code)



### CPERC HORIZONTAL BEND



| DESCRIPTION   | UVM | UVE | B   | H   | GS     |       | GC     |       |
|---------------|-----|-----|-----|-----|--------|-------|--------|-------|
|               | ud  | ud  | mm  | mm  | REF.   | kg/ud | REF.   | kg/ud |
| CPERC 100x35  | 1   | 4   | 100 | 35  | 2/1337 | 0,59  | 2/1368 | 0,67  |
| CPERC 150x35  | 1   | 4   | 150 | 35  | 2/1338 | 0,75  | 2/1369 | 0,86  |
| CPERC 200x35  | 1   | 4   | 200 | 35  | 2/1339 | 1,00  | 2/1370 | 1,11  |
| CPERC 300x35  | 1   | 4   | 300 | 35  | 2/1340 | 1,61  | 2/1371 | 1,84  |
| CPERC 100x60  | 1   | 4   | 100 | 60  | 2/1344 | 0,70  | 2/1375 | 0,79  |
| CPERC 150x60  | 1   | 4   | 150 | 60  | 2/1345 | 0,88  | 2/1376 | 1,00  |
| CPERC 200x60  | 1   | 4   | 200 | 60  | 2/1346 | 1,14  | 2/1377 | 1,30  |
| CPERC 300x60  | 1   | 4   | 300 | 60  | 2/1348 | 1,77  | 2/1379 | 2,02  |
| CPERC 400x60  | 1   | 2   | 400 | 60  | 2/1349 | 2,53  | 2/1380 | 2,89  |
| CPERC 500x60  | 1   | 2   | 500 | 60  | 2/1350 | 3,42  | 2/1381 | 3,90  |
| CPERC 600x60  | 1   | 2   | 600 | 60  | 2/1351 | 4,44  | 2/1382 | 5,06  |
| CPERC 100x80  | 1   | 4   | 100 | 80  | 2/1352 | 0,96  | 2/1383 | 1,09  |
| CPERC 150x80  | 1   | 4   | 150 | 80  | 2/1353 | 1,23  | 2/1384 | 1,41  |
| CPERC 200x80  | 1   | 4   | 200 | 80  | 2/1354 | 1,54  | 2/1385 | 1,76  |
| CPERC 300x80  | 1   | 4   | 300 | 80  | 2/1356 | 2,29  | 2/1387 | 2,61  |
| CPERC 400x80  | 1   | 2   | 400 | 80  | 2/1357 | 3,18  | 2/1388 | 3,63  |
| CPERC 500x80  | 1   | 2   | 500 | 80  | 2/1358 | 4,24  | 2/1389 | 4,83  |
| CPERC 600x80  | 1   | 2   | 600 | 80  | 2/1359 | 5,45  | 2/1390 | 6,21  |
| CPERC 100x100 | 1   | 4   | 100 | 100 | 2/1360 | 1,05  | 2/1391 | 1,20  |
| CPERC 150x100 | 1   | 4   | 150 | 100 | 2/1361 | 1,33  | 2/1392 | 1,52  |
| CPERC 200x100 | 1   | 4   | 200 | 100 | 2/1362 | 1,65  | 2/1393 | 1,88  |
| CPERC 300x100 | 1   | 4   | 300 | 100 | 2/1364 | 2,42  | 2/1395 | 2,76  |
| CPERC 400x100 | 1   | 2   | 400 | 100 | 2/1365 | 3,34  | 2/1396 | 3,80  |
| CPERC 500x100 | 1   | 2   | 500 | 100 | 2/1366 | 4,41  | 2/1397 | 5,03  |
| CPERC 600x100 | 1   | 2   | 600 | 100 | 2/1367 | 5,64  | 2/1398 | 6,44  |



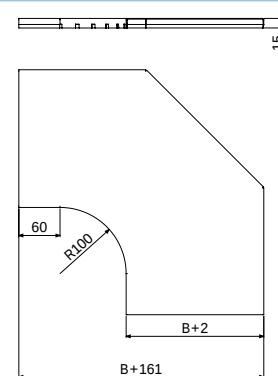
The horizontal bend can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use two joints JUER of the corresponding height. In both cases, it requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

The height 35 does not have holes in the sides. It joins at the base.

## COVER CPERC HORIZONTAL BEND



| DESCRIPTION    | UVM | UVE | B   | GS     |       | GC     |       |
|----------------|-----|-----|-----|--------|-------|--------|-------|
|                | ud  | ud  | mm  | REF.   | kg/ud | REF.   | kg/ud |
| TAPA CPERC 100 | 1   | 12  | 100 | 2/1430 | 0,27  | 2/1437 | 0,31  |
| TAPA CPERC 150 | 1   | 12  | 150 | 2/1431 | 0,41  | 2/1438 | 0,48  |
| TAPA CPERC 200 | 1   | 12  | 200 | 2/1432 | 0,57  | 2/1439 | 0,67  |
| TAPA CPERC 300 | 1   | 8   | 300 | 2/1433 | 0,97  | 2/1440 | 1,13  |
| TAPA CPERC 400 | 1   | 8   | 400 | 2/1434 | 1,46  | 2/1441 | 1,71  |
| TAPA CPERC 500 | 1   | 6   | 500 | 2/1435 | 2,04  | 2/1442 | 2,39  |
| TAPA CPERC 600 | 1   | 6   | 600 | 2/1436 | 2,71  | 2/1443 | 3,17  |

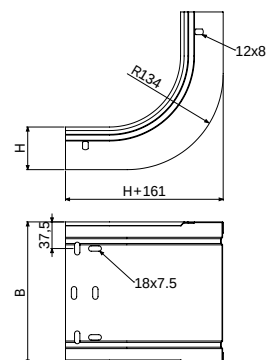


**No accessories required for mounting.** Pressure-fixed covers.

## CCERC VERTICAL INSIDE



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|---------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|               |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| CCERC 100x35  | 1         | 6         | 100     | 35      | 2/1451 | 0,34  | 2/1482 | 0,39  |
| CCERC 150x35  | 1         | 6         | 150     | 35      | 2/1452 | 0,45  | 2/1483 | 0,51  |
| CCERC 200x35  | 1         | 6         | 200     | 35      | 2/1453 | 0,55  | 2/1484 | 0,63  |
| CCERC 300x35  | 1         | 4         | 300     | 35      | 2/1454 | 0,76  | 2/1485 | 0,87  |
| CCERC 100x60  | 1         | 4         | 100     | 60      | 2/1458 | 0,50  | 2/1489 | 0,57  |
| CCERC 150x60  | 1         | 4         | 150     | 60      | 2/1459 | 0,62  | 2/1490 | 0,71  |
| CCERC 200x60  | 1         | 4         | 200     | 60      | 2/1460 | 0,74  | 2/1491 | 0,84  |
| CCERC 300x60  | 1         | 2         | 300     | 60      | 2/1462 | 0,98  | 2/1493 | 1,12  |
| CCERC 400x60  | 1         | 2         | 400     | 60      | 2/1463 | 1,22  | 2/1494 | 1,39  |
| CCERC 500x60  | 1         | 2         | 500     | 60      | 2/1464 | 1,46  | 2/1495 | 1,67  |
| CCERC 600x60  | 1         | 2         | 600     | 60      | 2/1465 | 1,71  | 2/1496 | 1,94  |
| CCERC 100x80  | 1         | 4         | 100     | 80      | 2/1466 | 0,66  | 2/1497 | 0,75  |
| CCERC 150x80  | 1         | 4         | 150     | 80      | 2/1467 | 0,79  | 2/1498 | 0,90  |
| CCERC 200x80  | 1         | 4         | 200     | 80      | 2/1468 | 0,92  | 2/1499 | 1,05  |
| CCERC 300x80  | 1         | 2         | 300     | 80      | 2/1470 | 1,19  | 2/1501 | 1,36  |
| CCERC 400x80  | 1         | 2         | 400     | 80      | 2/1471 | 1,46  | 2/1502 | 1,66  |
| CCERC 500x80  | 1         | 2         | 500     | 80      | 2/1472 | 1,72  | 2/1503 | 1,96  |
| CCERC 600x80  | 1         | 2         | 600     | 80      | 2/1473 | 1,99  | 2/1504 | 2,27  |
| CCERC 100x100 | 1         | 4         | 100     | 100     | 2/1474 | 0,78  | 2/1505 | 0,89  |
| CCERC 150x100 | 1         | 4         | 150     | 100     | 2/1475 | 0,93  | 2/1506 | 1,06  |
| CCERC 200x100 | 1         | 4         | 200     | 100     | 2/1476 | 1,07  | 2/1507 | 1,22  |
| CCERC 300x100 | 1         | 2         | 300     | 100     | 2/1478 | 1,36  | 2/1509 | 1,55  |
| CCERC 400x100 | 1         | 2         | 400     | 100     | 2/1479 | 1,65  | 2/1510 | 1,89  |
| CCERC 500x100 | 1         | 2         | 500     | 100     | 2/1480 | 1,95  | 2/1511 | 2,22  |
| CCERC 600x100 | 1         | 2         | 600     | 100     | 2/1481 | 2,24  | 2/1512 | 2,55  |



The vertical inside can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use two joints JUER of the corresponding height. In both cases, it requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

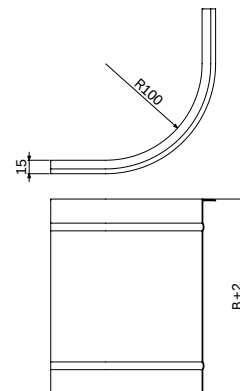
The height 35 does not have holes in the sides. It joins at the base.

## COVER CCERC VERTICAL INSIDE



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | B<br>mm | GS     |       | GC     |       |
|----------------|-----------|-----------|---------|--------|-------|--------|-------|
|                |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| TAPA CCERC 100 | 1         | 6         | 100     | 2/1544 | 0,23  | 2/1551 | 0,27  |
| TAPA CCERC 150 | 1         | 6         | 150     | 2/1545 | 0,32  | 2/1552 | 0,37  |
| TAPA CCERC 200 | 1         | 6         | 200     | 2/1546 | 0,41  | 2/1553 | 0,47  |
| TAPA CCERC 300 | 1         | 6         | 300     | 2/1547 | 0,58  | 2/1554 | 0,67  |
| TAPA CCERC 400 | 1         | 6         | 400     | 2/1548 | 0,75  | 2/1555 | 0,88  |
| TAPA CCERC 500 | 1         | 6         | 500     | 2/1549 | 0,93  | 2/1556 | 1,08  |
| TAPA CCERC 600 | 1         | 6         | 600     | 2/1550 | 1,10  | 2/1557 | 1,28  |

No accessories required for mounting. Pressure-fixed covers.

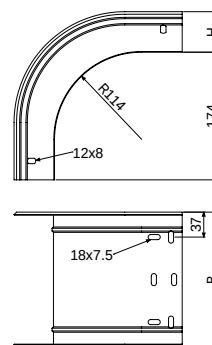




## CXERC VERTICAL OUTSIDE



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|---------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|               |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| CXERC 100x35  | 1         | 6         | 100     | 35      | 2/1565 | 0,32  | 2/1596 | 0,37  |
| CXERC 150x35  | 1         | 6         | 150     | 35      | 2/1566 | 0,42  | 2/1597 | 0,48  |
| CXERC 200x35  | 1         | 6         | 200     | 35      | 2/1567 | 0,51  | 2/1598 | 0,58  |
| CXERC 300x35  | 1         | 4         | 300     | 35      | 2/1568 | 0,70  | 2/1599 | 0,80  |
| CXERC 100x60  | 1         | 4         | 100     | 60      | 2/1572 | 0,45  | 2/1603 | 0,51  |
| CXERC 150x60  | 1         | 4         | 150     | 60      | 2/1573 | 0,54  | 2/1604 | 0,62  |
| CXERC 200x60  | 1         | 4         | 200     | 60      | 2/1574 | 0,64  | 2/1605 | 0,72  |
| CXERC 300x60  | 1         | 2         | 300     | 60      | 2/1576 | 0,82  | 2/1607 | 0,94  |
| CXERC 400x60  | 1         | 2         | 400     | 60      | 2/1577 | 1,01  | 2/1608 | 1,15  |
| CXERC 500x60  | 1         | 2         | 500     | 60      | 2/1578 | 1,20  | 2/1609 | 1,37  |
| CXERC 600x60  | 1         | 2         | 600     | 60      | 2/1579 | 1,39  | 2/1610 | 1,58  |
| CXERC 100x80  | 1         | 4         | 100     | 80      | 2/1580 | 0,58  | 2/1611 | 0,66  |
| CXERC 150x80  | 1         | 4         | 150     | 80      | 2/1581 | 0,67  | 2/1612 | 0,77  |
| CXERC 200x80  | 1         | 4         | 200     | 80      | 2/1582 | 0,77  | 2/1613 | 0,88  |
| CXERC 300x80  | 1         | 2         | 300     | 80      | 2/1584 | 0,96  | 2/1615 | 1,09  |
| CXERC 400x80  | 1         | 2         | 400     | 80      | 2/1585 | 1,14  | 2/1616 | 1,31  |
| CXERC 500x80  | 1         | 2         | 500     | 80      | 2/1586 | 1,33  | 2/1617 | 1,52  |
| CXERC 600x80  | 1         | 2         | 600     | 80      | 2/1587 | 1,52  | 2/1618 | 1,73  |
| CXERC 100x100 | 1         | 4         | 100     | 100     | 2/1588 | 0,67  | 2/1619 | 0,77  |
| CXERC 150x100 | 1         | 4         | 150     | 100     | 2/1589 | 0,77  | 2/1620 | 0,88  |
| CXERC 200x100 | 1         | 4         | 200     | 100     | 2/1590 | 0,86  | 2/1621 | 0,98  |
| CXERC 300x100 | 1         | 2         | 300     | 100     | 2/1592 | 1,05  | 2/1623 | 1,20  |
| CXERC 400x100 | 1         | 2         | 400     | 100     | 2/1593 | 1,24  | 2/1624 | 1,41  |
| CXERC 500x100 | 1         | 2         | 500     | 100     | 2/1594 | 1,43  | 2/1625 | 1,63  |
| CXERC 600x100 | 1         | 2         | 600     | 100     | 2/1595 | 1,62  | 2/1626 | 1,93  |



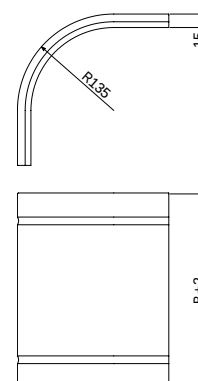
The vertical outside can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use two joints JUER of the corresponding height. In both cases, it requires the use of 4 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

The height 35 does not have holes in the sides. It joins at the base.

## COVER CXERC VERTICAL OUTSIDE



| DESCRIPTION        | UVM<br>ud | UVE<br>ud | B<br>mm | GS     |       | GC     |       |
|--------------------|-----------|-----------|---------|--------|-------|--------|-------|
|                    |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| TAPA CXERC 100x35  | 1         | 6         | 100     | 2/1658 | 0,29  | 2/1689 | 0,34  |
| TAPA CXERC 150x35  | 1         | 6         | 150     | 2/1659 | 0,40  | 2/1690 | 0,47  |
| TAPA CXERC 200x35  | 1         | 6         | 200     | 2/1660 | 0,52  | 2/1691 | 0,60  |
| TAPA CXERC 300x35  | 1         | 6         | 300     | 2/1661 | 0,74  | 2/1692 | 0,86  |
| TAPA CXERC 100x60  | 1         | 6         | 100     | 2/1665 | 0,34  | 2/1696 | 0,39  |
| TAPA CXERC 150x60  | 1         | 6         | 150     | 2/1666 | 0,46  | 2/1697 | 0,54  |
| TAPA CXERC 200x60  | 1         | 6         | 200     | 2/1667 | 0,59  | 2/1698 | 0,68  |
| TAPA CXERC 300x60  | 1         | 6         | 300     | 2/1669 | 0,84  | 2/1700 | 0,98  |
| TAPA CXERC 400x60  | 1         | 6         | 400     | 2/1670 | 1,10  | 2/1701 | 1,28  |
| TAPA CXERC 500x60  | 1         | 6         | 500     | 2/1671 | 1,36  | 2/1702 | 1,57  |
| TAPA CXERC 600x60  | 1         | 6         | 600     | 2/1672 | 1,61  | 2/1703 | 1,87  |
| TAPA CXERC 100x80  | 1         | 6         | 100     | 2/1673 | 0,37  | 2/1704 | 0,43  |
| TAPA CXERC 150x80  | 1         | 6         | 150     | 2/1674 | 0,51  | 2/1705 | 0,59  |
| TAPA CXERC 200x80  | 1         | 6         | 200     | 2/1675 | 0,65  | 2/1706 | 0,75  |
| TAPA CXERC 300x80  | 1         | 6         | 300     | 2/1677 | 0,93  | 2/1708 | 1,08  |
| TAPA CXERC 400x80  | 1         | 6         | 400     | 2/1678 | 1,21  | 2/1709 | 1,40  |
| TAPA CXERC 500x80  | 1         | 6         | 500     | 2/1679 | 1,49  | 2/1710 | 1,73  |
| TAPA CXERC 600x80  | 1         | 6         | 600     | 2/1680 | 1,77  | 2/1711 | 2,05  |
| TAPA CXERC 100x100 | 1         | 6         | 100     | 2/1681 | 0,40  | 2/1712 | 0,47  |
| TAPA CXERC 150x100 | 1         | 6         | 150     | 2/1682 | 0,55  | 2/1713 | 0,64  |
| TAPA CXERC 200x100 | 1         | 6         | 200     | 2/1683 | 0,71  | 2/1714 | 0,82  |
| TAPA CXERC 300x100 | 1         | 6         | 300     | 2/1685 | 1,01  | 2/1716 | 1,18  |
| TAPA CXERC 400x100 | 1         | 6         | 400     | 2/1686 | 1,32  | 2/1717 | 1,53  |
| TAPA CXERC 500x100 | 1         | 6         | 500     | 2/1687 | 1,62  | 2/1718 | 1,88  |
| TAPA CXERC 600x100 | 1         | 6         | 600     | 2/1688 | 1,93  | 2/1719 | 2,24  |

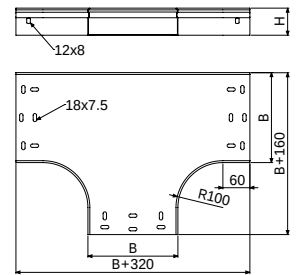


No accessories required for mounting. Pressure-fixed covers.

## TERC INTERSECTION



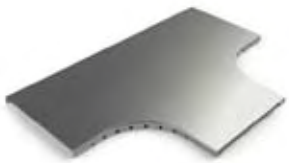
| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|--------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|              |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| TERC 100x35  | 1         | 4         | 100     | 35      | 2/1751 | 0,81  | 2/1782 | 0,93  |
| TERC 150x35  | 1         | 4         | 150     | 35      | 2/1752 | 1,11  | 2/1783 | 1,27  |
| TERC 200x35  | 1         | 4         | 200     | 35      | 2/1753 | 1,58  | 2/1784 | 1,80  |
| TERC 300x35  | 1         | 4         | 300     | 35      | 2/1754 | 2,26  | 2/1785 | 2,57  |
| TERC 100x60  | 1         | 4         | 100     | 60      | 2/1758 | 0,96  | 2/1789 | 1,09  |
| TERC 150x60  | 1         | 4         | 150     | 60      | 2/1759 | 1,27  | 2/1790 | 1,45  |
| TERC 200x60  | 1         | 4         | 200     | 60      | 2/1760 | 1,74  | 2/1791 | 1,98  |
| TERC 300x60  | 1         | 4         | 300     | 60      | 2/1762 | 2,44  | 2/1793 | 2,78  |
| TERC 400x60  | 1         | 4         | 400     | 60      | 2/1763 | 3,41  | 2/1794 | 3,89  |
| TERC 500x60  | 1         | 2         | 500     | 60      | 2/1764 | 4,54  | 2/1795 | 5,18  |
| TERC 600x60  | 1         | 2         | 600     | 60      | 2/1765 | 5,83  | 2/1796 | 6,64  |
| TERC 100x80  | 1         | 4         | 100     | 80      | 2/1766 | 1,07  | 2/1797 | 1,22  |
| TERC 150x80  | 1         | 4         | 150     | 80      | 2/1767 | 1,38  | 2/1798 | 1,58  |
| TERC 200x80  | 1         | 4         | 200     | 80      | 2/1768 | 1,86  | 2/1799 | 2,12  |
| TERC 300x80  | 1         | 4         | 300     | 80      | 2/1770 | 2,57  | 2/1801 | 2,93  |
| TERC 400x80  | 1         | 4         | 400     | 80      | 2/1771 | 3,55  | 2/1802 | 4,05  |
| TERC 500x80  | 1         | 2         | 500     | 80      | 2/1772 | 4,70  | 2/1803 | 5,35  |
| TERC 600x80  | 1         | 2         | 600     | 80      | 2/1773 | 5,99  | 2/1804 | 6,83  |
| TERC 100x100 | 1         | 4         | 100     | 100     | 2/1774 | 1,19  | 2/1805 | 1,36  |
| TERC 150x100 | 1         | 4         | 150     | 100     | 2/1775 | 1,51  | 2/1806 | 1,72  |
| TERC 200x100 | 1         | 4         | 200     | 100     | 2/1776 | 2,00  | 2/1807 | 2,28  |
| TERC 300x100 | 1         | 4         | 300     | 100     | 2/1778 | 2,71  | 2/1809 | 3,09  |
| TERC 400x100 | 1         | 4         | 400     | 100     | 2/1779 | 3,71  | 2/1810 | 4,23  |
| TERC 500x100 | 1         | 2         | 500     | 100     | 2/1780 | 4,87  | 2/1811 | 5,55  |
| TERC 600x100 | 1         | 2         | 600     | 100     | 2/1781 | 6,18  | 2/1812 | 7,04  |



The T intersection can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use four joints JUER of the corresponding height. In both cases, it requires the use of 8 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

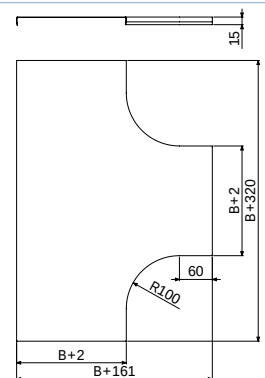
The height 35 does not have holes in the sides. It joins at the base.

## COVER TERC INTERSECTION

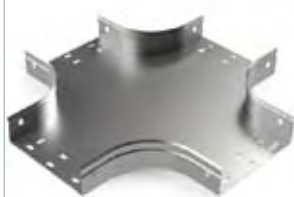


| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | GS     |       | GC     |       |
|---------------|-----------|-----------|---------|--------|-------|--------|-------|
|               |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| TAPA TERC 100 | 1         | 10        | 100     | 2/1844 | 0,45  | 2/1852 | 0,53  |
| TAPA TERC 150 | 1         | 10        | 150     | 2/1845 | 0,66  | 2/1853 | 0,77  |
| TAPA TERC 200 | 1         | 8         | 200     | 2/1846 | 0,89  | 2/1854 | 1,04  |
| TAPA TERC 300 | 1         | 8         | 300     | 2/1848 | 1,44  | 2/1855 | 1,68  |
| TAPA TERC 400 | 1         | 4         | 400     | 2/1849 | 2,09  | 2/1856 | 2,45  |
| TAPA TERC 500 | 1         | 4         | 500     | 2/1850 | 2,86  | 2/1857 | 3,35  |
| TAPA TERC 600 | 1         | 4         | 600     | 2/1851 | 3,74  | 2/1858 | 4,37  |

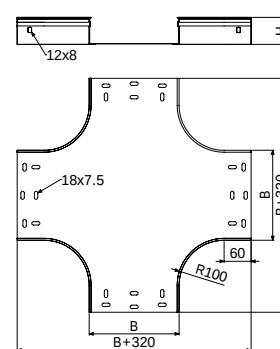
No accessories required for mounting. Pressure-fixed covers.



## CRERC INTERSECTION



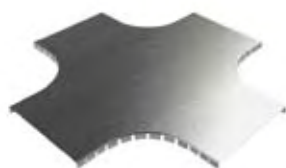
| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|---------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|               |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| CRERC 100x35  | 1         | 4         | 100     | 35      | 2/1866 | 1,02  | 2/1897 | 1,16  |
| CRERC 150x35  | 1         | 4         | 150     | 35      | 2/1867 | 1,37  | 2/1898 | 1,56  |
| CRERC 200x35  | 1         | 4         | 200     | 35      | 2/1868 | 1,76  | 2/1899 | 2,00  |
| CRERC 300x35  | 1         | 4         | 300     | 35      | 2/1869 | 2,65  | 2/1900 | 3,02  |
| CRERC 100x60  | 1         | 4         | 100     | 60      | 2/1873 | 1,19  | 2/1904 | 1,35  |
| CRERC 150x60  | 1         | 4         | 150     | 60      | 2/1874 | 1,54  | 2/1905 | 1,75  |
| CRERC 200x60  | 1         | 4         | 200     | 60      | 2/1875 | 1,92  | 2/1906 | 2,19  |
| CRERC 300x60  | 1         | 4         | 300     | 60      | 2/1877 | 2,82  | 2/1908 | 3,21  |
| CRERC 400x60  | 1         | 4         | 400     | 60      | 2/1878 | 3,87  | 2/1909 | 4,41  |
| CRERC 500x60  | 1         | 2         | 500     | 60      | 2/1879 | 5,08  | 2/1910 | 5,79  |
| CRERC 600x60  | 1         | 2         | 600     | 60      | 2/1872 | 6,28  | 2/1911 | 7,35  |
| CRERC 100x80  | 1         | 4         | 100     | 80      | 2/1881 | 1,31  | 2/1912 | 1,50  |
| CRERC 150x80  | 1         | 4         | 150     | 80      | 2/1882 | 1,66  | 2/1913 | 1,89  |
| CRERC 200x80  | 1         | 4         | 200     | 80      | 2/1883 | 2,05  | 2/1914 | 2,34  |
| CRERC 300x80  | 1         | 4         | 300     | 80      | 2/1885 | 2,94  | 2/1916 | 3,36  |
| CRERC 400x80  | 1         | 4         | 400     | 80      | 2/1886 | 4,00  | 2/1917 | 4,56  |
| CRERC 500x80  | 1         | 2         | 500     | 80      | 2/1887 | 5,21  | 2/1918 | 5,93  |
| CRERC 600x80  | 1         | 2         | 600     | 80      | 2/1880 | 6,45  | 2/1919 | 7,49  |
| CRERC 100x100 | 1         | 4         | 100     | 100     | 2/1889 | 1,45  | 2/1920 | 1,65  |
| CRERC 150x100 | 1         | 4         | 150     | 100     | 2/1890 | 1,80  | 2/1921 | 2,05  |
| CRERC 200x100 | 1         | 4         | 200     | 100     | 2/1891 | 2,19  | 2/1922 | 2,49  |
| CRERC 300x100 | 1         | 4         | 300     | 100     | 2/1893 | 3,08  | 2/1924 | 3,51  |
| CRERC 400x100 | 1         | 4         | 400     | 100     | 2/1894 | 4,14  | 2/1925 | 4,71  |
| CRERC 500x100 | 1         | 2         | 500     | 100     | 2/1895 | 5,34  | 2/1926 | 6,09  |
| CRERC 600x100 | 1         | 2         | 600     | 100     | 2/1896 | 6,71  | 2/1927 | 7,65  |



The CRERC intersection can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use six joints JUER of the corresponding height. In both cases, it requires the use of 12 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

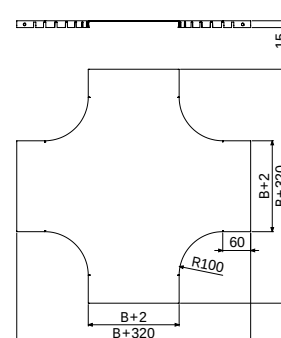
The height 35 does not have holes in the sides. It joins at the base.

## COVER CRERC INTERSECTION



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | B<br>mm | GS     |       | GC     |       |
|----------------|-----------|-----------|---------|--------|-------|--------|-------|
|                |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| TAPA CRERC 100 | 1         | 10        | 100     | 2/1959 | 0,60  | 2/1967 | 0,70  |
| TAPA CRERC 150 | 1         | 10        | 150     | 2/1960 | 0,84  | 2/1968 | 0,99  |
| TAPA CRERC 200 | 1         | 8         | 200     | 2/1961 | 1,11  | 2/1969 | 1,30  |
| TAPA CRERC 300 | 1         | 8         | 300     | 2/1963 | 1,74  | 2/1971 | 2,04  |
| TAPA CRERC 400 | 1         | 4         | 400     | 2/1964 | 2,48  | 2/1972 | 2,90  |
| TAPA CRERC 500 | 1         | 4         | 500     | 2/1965 | 3,32  | 2/1973 | 3,89  |
| TAPA CRERC 600 | 1         | 4         | 600     | 2/1966 | 4,28  | 2/1974 | 5,01  |

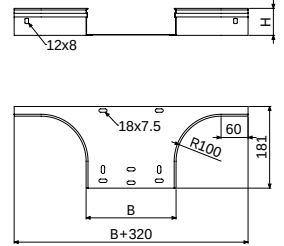
No accessories required for mounting. Pressure-fixed covers.



## AS INTERSECTION



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|-------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|             |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| AS 100x35   | 1         | 6         | 100     | 35      | 2/1983 | 0,40  | 2/2015 | 0,46  |
| AS 150x35   | 1         | 6         | 150     | 35      | 2/1984 | 0,47  | 2/2016 | 0,54  |
| AS 200x35   | 1         | 4         | 200     | 35      | 2/1985 | 0,54  | 2/2017 | 0,62  |
| AS 300x35   | 1         | 4         | 300     | 35      | 2/1987 | 0,68  | 2/2019 | 0,78  |
| AS 100x60   | 1         | 4         | 100     | 60      | 2/1991 | 0,48  | 2/2023 | 0,55  |
| AS 150x60   | 1         | 4         | 150     | 60      | 2/1992 | 0,55  | 2/2024 | 0,63  |
| AS 200x60   | 1         | 4         | 200     | 60      | 2/1993 | 0,63  | 2/2025 | 0,72  |
| AS 300x60   | 1         | 4         | 300     | 60      | 2/1995 | 0,77  | 2/2027 | 0,87  |
| AS 400x60   | 1         | 4         | 400     | 60      | 2/1996 | 0,91  | 2/2028 | 1,04  |
| AS 500x60   | 1         | 2         | 500     | 60      | 2/1997 | 1,05  | 2/2029 | 1,20  |
| AS 600x60   | 1         | 2         | 600     | 60      | 2/1998 | 1,19  | 2/2030 | 1,36  |
| AS 100x80   | 1         | 4         | 100     | 80      | 2/1999 | 0,55  | 2/2031 | 0,63  |
| AS 150x80   | 1         | 4         | 150     | 80      | 2/2000 | 0,62  | 2/2032 | 0,71  |
| AS 200x80   | 1         | 4         | 200     | 80      | 2/2001 | 0,69  | 2/2033 | 0,79  |
| AS 300x80   | 1         | 4         | 300     | 80      | 2/2003 | 0,83  | 2/2035 | 0,95  |
| AS 400x80   | 1         | 4         | 400     | 80      | 2/2004 | 0,97  | 2/2036 | 1,11  |
| AS 500x80   | 1         | 2         | 500     | 80      | 2/2005 | 1,11  | 2/2037 | 1,27  |
| AS 600x80   | 1         | 2         | 600     | 80      | 2/2006 | 1,25  | 2/2038 | 1,44  |
| AS 100x100  | 1         | 2         | 100     | 100     | 2/2007 | 0,61  | 2/2039 | 0,71  |
| AS 150x100  | 1         | 2         | 150     | 100     | 2/2008 | 0,69  | 2/2040 | 0,79  |
| AS 200x100  | 1         | 2         | 200     | 100     | 2/2009 | 0,76  | 2/2041 | 0,86  |
| AS 300x100  | 1         | 2         | 300     | 100     | 2/2011 | 0,90  | 2/2043 | 1,03  |
| AS 400x100  | 1         | 2         | 400     | 100     | 2/2012 | 1,04  | 2/2044 | 1,19  |
| AS 500x100  | 1         | 2         | 500     | 100     | 2/2013 | 1,18  | 2/2045 | 1,35  |
| AS 600x100  | 1         | 2         | 600     | 100     | 2/2014 | 1,32  | 2/2046 | 1,52  |



The AS intersection can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use two joints JUER of the corresponding height. In both cases, it requires the use of 8 bolts reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

The height 35 does not have holes in the sides. It joins at the base.

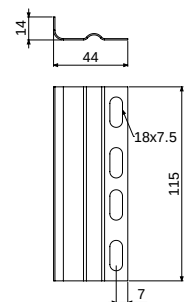
## JUER JOINT PLATE



JUER H35

| DESCRIPTION | UVM<br>ud | UVE<br>ud | H<br>mm | GS     |       | GC     |       |
|-------------|-----------|-----------|---------|--------|-------|--------|-------|
|             |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| JUER H35    | 1         | 250       | 35      | 2/2047 | 0,04  | 2/2052 | 0,05  |
| JUER H60    | 1         | 250       | 60      | 2/2048 | 0,03  | 2/2053 | 0,03  |
| JUER H80    | 1         | 200       | 80      | 2/2049 | 0,06  | 2/2054 | 0,07  |
| JUER H100   | 1         | 150       | 100     | 2/2050 | 0,07  | 2/2055 | 0,09  |

Two bolts are required to fix adjustable joint reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).



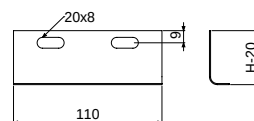
JUER H35



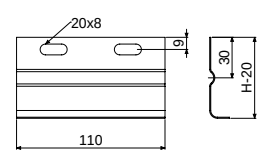
JUER H60



JUER H80/H100



JUER H60



JUER H80 / H100

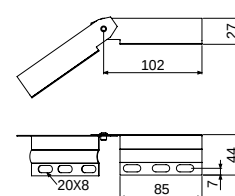


## JUER-A AJUSTABLE JOINT

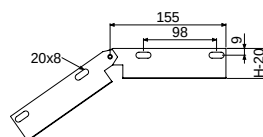


| DESCRIPTION         | UVM<br>ud | UVE<br>ud | H<br>mm | GS     |       | GC     |       |
|---------------------|-----------|-----------|---------|--------|-------|--------|-------|
|                     |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| J/UNION JUER A H35  | 1         | 60        | 35      | 2/3226 | 0,10  | 2/5298 | 0,11  |
| J/UNION JUER A H60  | 1         | 60        | 60      | 2/3229 | 0,10  | 2/4439 | 0,11  |
| J/UNION JUER A H80  | 1         | 60        | 80      | 2/6327 | 0,13  | 2/5055 | 0,14  |
| J/UNION JUER A H100 | 1         | 60        | 100     | 2/6209 | 0,16  | 2/6416 | 0,18  |

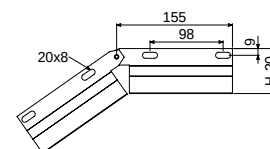
Two bolts are required to fix adjustable joint reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).



JUER A H35



JUER A H60



JUER A H80/100

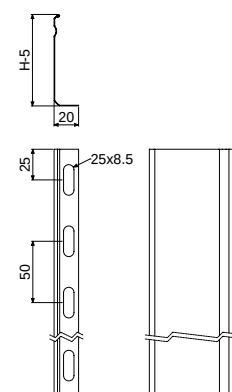
## DIVIDER PROFILE



L = 3 m

| DESCRIPTION | UVM<br>m | UVE<br>m | H<br>mm | GS     |      | GC     |      |
|-------------|----------|----------|---------|--------|------|--------|------|
|             |          |          |         | REF.   | kg/m | REF.   | kg/m |
| PS 35       | 3        | 30       | 35      | 2/3476 | 0,23 | 2/3479 | 0,29 |
| PS 60       | 3        | 30       | 60      | 2/2066 | 0,34 | 2/3480 | 0,43 |
| PS 80       | 3        | 30       | 80      | 2/3477 | 0,46 | 2/3481 | 0,63 |
| PS 100      | 3        | 30       | 100     | 2/3478 | 0,56 | 2/3482 | 0,76 |

One bolt is required to fix divider profile every 500mm reference number 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).



## REER REDUCTION – END COVER

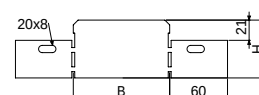


| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|--------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|              |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| REER 50/35   | 1         | 1         | 50      | 35      | 2/6290 | 0,03  | 2/6298 | 0,03  |
| REER 50/60   | 1         | 1         | 50      | 60      | 2/6291 | 0,04  | 2/6299 | 0,05  |
| REER 50/80   | 1         | 1         | 50      | 80      | 2/6292 | 0,06  | 2/6300 | 0,07  |
| REER 50/100  | 1         | 1         | 50      | 100     | 2/6293 | 0,08  | 2/6301 | 0,09  |
| REER 100/35  | 1         | 1         | 100     | 35      | 2/6294 | 0,04  | 2/6302 | 0,04  |
| REER 100/60  | 1         | 1         | 100     | 60      | 2/6295 | 0,06  | 2/6303 | 0,07  |
| REER 100/80  | 1         | 1         | 100     | 80      | 2/6296 | 0,08  | 2/6304 | 0,09  |
| REER 100/100 | 1         | 1         | 100     | 100     | 2/6297 | 0,11  | 2/6305 | 0,12  |

The piece can be used for both width reduction, as of end cover.

Two bolts are required to fix as reduction. For use how end cover, it needs as many bolts as pieces are joined plus one.

Depending on the type of coating, bolts are needed reference 2/4356 in GS or 2/6826 in GC (products packed in bags of 100).

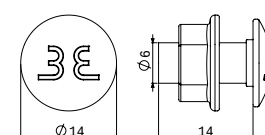


## B1 BOLT SET

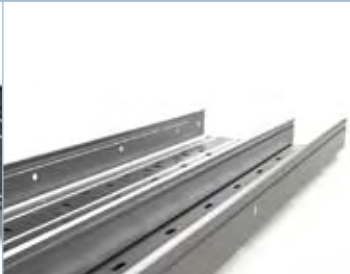
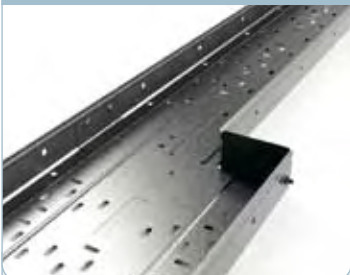


| DESCRIPTION                | UVM<br>ud | UVE<br>ud | Pap<br>Nm | CINCADO |       | GC     |       |
|----------------------------|-----------|-----------|-----------|---------|-------|--------|-------|
|                            |           |           |           | REF.    | kg/ud | REF.   | kg/ud |
| Pack 100 B1 Bolt Set M6x14 | 1         | 1         | 6         | 2/4356  | 1,00  | 2/6826 | 1,00  |

The B1 bolt set consists of a M6x14 DIN603 mushroom head square neck bolt and a M6 DIN6923 flange nut with serration for a perfect fit. Used to mount all accessories from the BASORTRAY Series.



## MOUNTS ERE

| SELF-ASSEMBLY ERE                                                                   | ERE + COVER                                                                        | ERE + CPERC                                                                         | ERE + CXERC                                                                          |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |   |   |   |
|                                                                                     |                                                                                    |                                                                                     |                                                                                      |
| ERE + AS INTERSECTION                                                               | ERE + DIVIDER PROFILE                                                              | ERE + JUER-A                                                                        | ERE + END COVER                                                                      |
|   |  |  |  |
|                                                                                     |                                                                                    |                                                                                     |                                                                                      |
| ERE + REDUCTION                                                                     |                                                                                    |                                                                                     |                                                                                      |
|  |                                                                                    |                                                                                     |                                                                                      |
|                                                                                     |                                                                                    |                                                                                     |                                                                                      |

**P** PATENTED  
9800892



**1** SELF-ASSEMBLY fixation system between cable trays.

- No couplers needed
- Easier to install
- Less time required for installation
- Union with higher degree of rigidity

**2** Longitudinal reinforcements to improve Resistance to flexure.

**3** Inside lip which confers it a greater resistance to flexure.

**4** Corners finished at 45° to improve behaviour to flexure.

**5** Pressure-fixed covers. No accessories required.

**6** Accessories with circular insides to avoid damaging the cables.

| B (mm) | USEFUL AREA (cm <sup>2</sup> ) |     |     |      |
|--------|--------------------------------|-----|-----|------|
|        | H35                            | H60 | H80 | H100 |
| 100    | 34                             | 59  | 78  | -    |
| 150    | 51                             | 89  | 118 | 148  |
| 200    | 69                             | 119 | 158 | 198  |
| 300    | 103                            | 178 | 238 | 298  |
| 400    | -                              | 238 | 317 | 397  |
| 500    | -                              | 298 | 397 | 497  |
| 600    | -                              | 358 | 477 | 597  |

## FRE H35 PERFORATED METALLIC HIGH LOAD CABLE TRAY



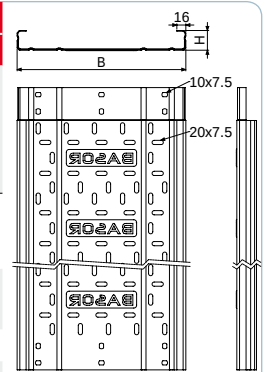
| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------|--------------------|--------|------|--------|------|
|                |          |          |         |         |         |                    | REF.   | kg/m | REF.   | kg/m |
| B/P FRE 100X35 | 3        | 12       | 100     | 35      | 1,5     | 120                | 2/0001 | 1,68 | 2/0051 | 1,88 |
| B/P FRE 150X35 | 3        | 12       | 150     | 35      | 1,5     | 120                | 2/0002 | 2,15 | 2/0052 | 2,41 |
| B/P FRE 200X35 | 3        | 12       | 200     | 35      | 1,5     | 120                | 2/0003 | 2,51 | 2/0053 | 2,81 |
| B/P FRE 300X35 | 3        | 6        | 300     | 35      | 1,5     | 120                | 2/0004 | 3,35 | 2/0054 | 3,75 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts (6 in the case of model 300), with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, couplers for cable trays with sides of 35, with reference number 2/2047 in GS or 2/2052 in GC, must be used.

The accessories for FRE cable trays are the same as the ones used for ERE cable trays (page 24).

For more technical information, please consult page 211.



## FRE H60 PERFORATED METALLIC HIGH LOAD CABLE TRAY



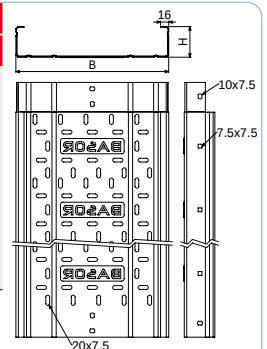
| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------|--------------------|--------|------|--------|------|
|                |          |          |         |         |         |                    | REF.   | kg/m | REF.   | kg/m |
| B/P FRE 100X60 | 3        | 12       | 100     | 60      | 1,5     | 180                | 2/0006 | 2,15 | 2/0056 | 2,41 |
| B/P FRE 150X60 | 3        | 12       | 150     | 60      | 1,5     | 180                | 2/0007 | 2,62 | 2/0057 | 2,94 |
| B/P FRE 200X60 | 3        | 6        | 200     | 60      | 1,5     | 180                | 2/0008 | 2,99 | 2/0058 | 3,34 |
| B/P FRE 300X60 | 3        | 6        | 300     | 60      | 1,5     | 180                | 2/0009 | 3,82 | 2/0059 | 4,28 |
| B/P FRE 400X60 | 3        | 6        | 400     | 60      | 1,5     | 180                | 2/0010 | 4,66 | 2/0060 | 5,22 |
| B/P FRE 500X60 | 3        | 6        | 500     | 60      | 1,5     | 180                | 2/0011 | 5,49 | 2/0061 | 6,15 |
| B/P FRE 600X60 | 3        | 6        | 600     | 60      | 1,5     | 180                | 2/0012 | 6,33 | 2/0062 | 7,09 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, couplers for cable trays with sides of 60, with reference number 2/2048 in GS or 2/2053 in GC, must be used.

The accessories for FRE cable trays are the same as the ones used for ERE cable trays (page 24).

For more technical information, please consult page 211.



## FRE H80 PERFORATED METALLIC HIGH LOAD CABLE TRAY



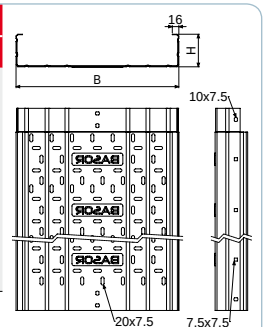
| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GS     |      | GC     |      |
|----------------|----------|----------|---------|---------|---------|--------------------|--------|------|--------|------|
|                |          |          |         |         |         |                    | REF.   | kg/m | REF.   | kg/m |
| B/P FRE 100X80 | 3        | 12       | 100     | 80      | 1,5     | 220                | 2/0013 | 2,53 | 2/0063 | 2,83 |
| B/P FRE 150X80 | 3        | 12       | 150     | 80      | 1,5     | 220                | 2/0014 | 3,00 | 2/0064 | 3,36 |
| B/P FRE 200X80 | 3        | 6        | 200     | 80      | 1,5     | 220                | 2/0015 | 3,36 | 2/0065 | 3,77 |
| B/P FRE 300X80 | 3        | 6        | 300     | 80      | 1,5     | 220                | 2/0016 | 4,20 | 2/0066 | 4,70 |
| B/P FRE 400X80 | 3        | 6        | 400     | 80      | 1,5     | 220                | 2/0017 | 5,04 | 2/0067 | 5,64 |
| B/P FRE 500X80 | 3        | 6        | 500     | 80      | 1,5     | 220                | 2/0018 | 5,87 | 2/0068 | 6,58 |
| B/P FRE 600X80 | 3        | 6        | 600     | 80      | 1,5     | 220                | 2/0019 | 6,71 | 2/0069 | 7,51 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, couplers for cable trays with sides of 80, with reference number 2/2049 in GS or 2/2054 in GC, must be used.

The accessories for FRE cable trays are the same as the ones used for ERE cable trays (page 24).

For more technical information, please consult page 211.





## FRE H100 PERFORATED METALLIC HIGH LOAD CABLE TRAY



L = 3 m

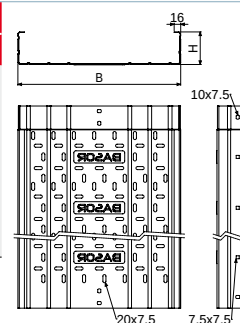
| DESCRIPTION     | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GS     |      | GC     |      |
|-----------------|----------|----------|---------|---------|---------|--------------------|--------|------|--------|------|
|                 |          |          |         |         |         |                    | REF.   | kg/m | REF.   | kg/m |
| B/P FRE 150X100 | 3        | 12       | 150     | 100     | 1,5     | 240                | 2/0020 | 3,38 | 2/0070 | 3,78 |
| B/P FRE 200X100 | 3        | 6        | 200     | 100     | 1,5     | 240                | 2/0021 | 3,74 | 2/0071 | 4,19 |
| B/P FRE 300X100 | 3        | 6        | 300     | 100     | 1,5     | 240                | 2/0022 | 4,58 | 2/0072 | 5,13 |
| B/P FRE 400X100 | 3        | 6        | 400     | 100     | 1,5     | 240                | 2/0023 | 5,41 | 2/0073 | 6,06 |
| B/P FRE 500X100 | 3        | 6        | 500     | 100     | 1,5     | 240                | 2/0024 | 6,25 | 2/0074 | 7,00 |
| B/P FRE 600X100 | 3        | 6        | 600     | 100     | 1,5     | 240                | 2/0025 | 7,09 | 2/0075 | 7,94 |

To assemble the cable trays, **no couplers are needed**. Each stretch requires the use of 4 bolts, with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, couplers for cable trays with sides of 100, with reference number 2/2050 in GS or 2/2055 in GC, must be used.

The accessories for FRE cable trays are the same as the ones used for ERE cable trays (page 24).

For more technical information, please consult page 211.



## COVER FRE FOR METALLIC CABLE TRAY



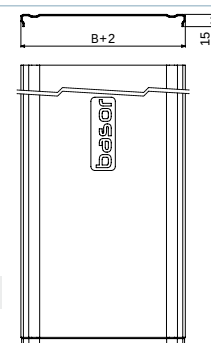
L = 3 m

(400/600 - L = 2 m)

| DESCRIPTION      | UVM<br>m | UVE<br>m | B<br>mm | e<br>mm | GS     |      |
|------------------|----------|----------|---------|---------|--------|------|
|                  |          |          |         |         | REF.   | kg/m |
| TAPA B/P FRE 100 | 3        | 6        | 100     | 1,2     | 2/6008 | 0,68 |
| TAPA B/P FRE 200 | 3        | 6        | 200     | 1,2     | 2/6009 | 2,14 |
| TAPA B/P FRE 300 | 3        | 6        | 300     | 1,2     | 2/6010 | 3,08 |
| TAPA B/P FRE 400 | 2        | 4        | 400     | 1,2     | 2/6011 | 4,02 |
| TAPA B/P FRE 600 | 2        | 4        | 600     | 1,2     | 2/6012 | 5,91 |

To mount the cover **no accessories are needed**. Fixed by pressure.

The covers are self-assembly to improve its degrees of protection (IP code)

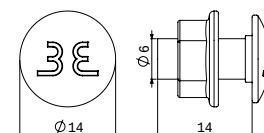


## B1 BOLT SET



| DESCRIPTION                | UVM<br>ud | UVE<br>ud | Pap<br>Nm | CINCADO |       | GC     |       |
|----------------------------|-----------|-----------|-----------|---------|-------|--------|-------|
|                            |           |           |           | REF.    | kg/ud | REF.   | kg/ud |
| Pack 100 B1 Bolt Set M6x14 | 1         | 1         | 6         | 2/4356  | 1,00  | 2/6826 | 1,00  |

The B1 bolt set consists of a M6x14 DIN603 mushroom head square neck bolt and a M6 DIN6923 flange nut with serration for a perfect fit. Used to mount all accessories BASORTRAY Series.

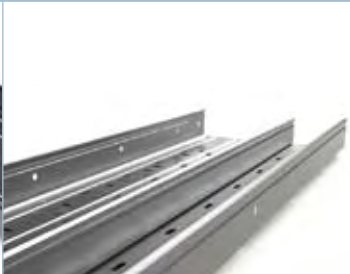
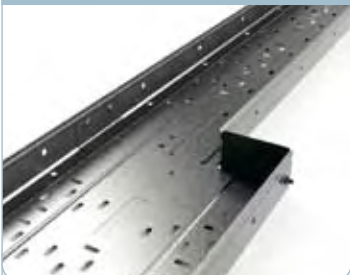


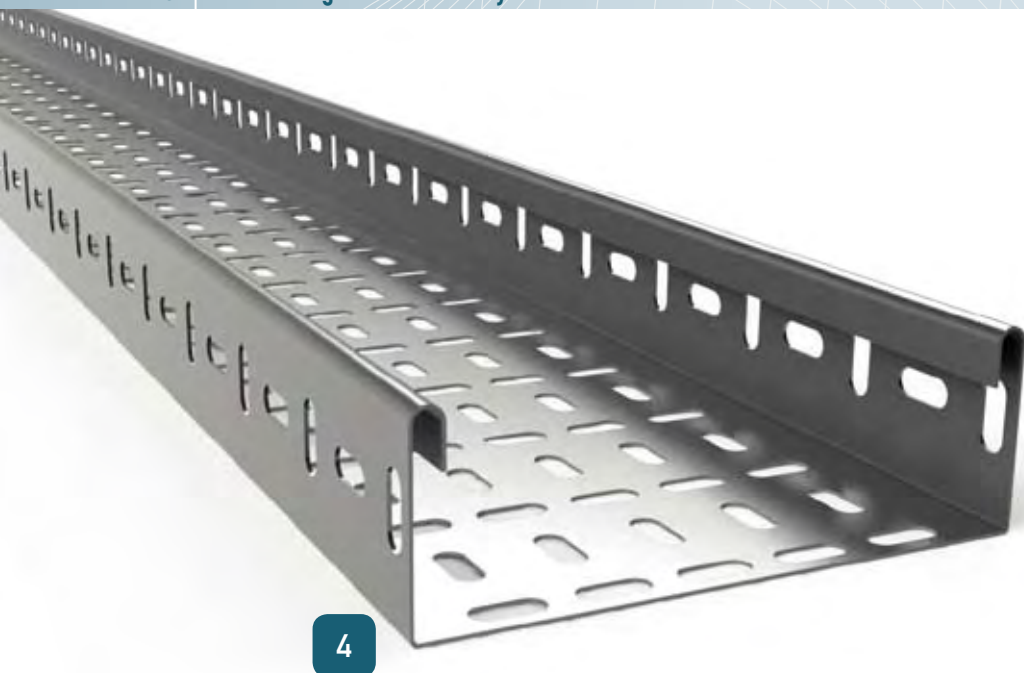
## ACCESSORIES ERE/FRE

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| <br>CPERC CPERC COVER | <br>CCERC CCERC COVER | <br>CXERC CXERC COVER |
| <br>TERC TERC COVER   | <br>CRERC CRERC COVER | <br>AS                |
| <br>JUER              | <br>PS                | <br>REER              |



## MOUNTS FRE

| SELF-ASSEMBLY FRE                                                                   | FRE + COVER                                                                        | FRE + CPERC                                                                         | FRE + CXERC                                                                          |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|    |   |   |   |
|                                                                                     |                                                                                    |                                                                                     |                                                                                      |
| FRE + AS INTERSECTION                                                               | FRE + DIVIDER PROFILE                                                              | FRE + JUER-A                                                                        | FRE + END COVER                                                                      |
|   |  |  |  |
|                                                                                     |                                                                                    |                                                                                     |                                                                                      |
| FRE + REDUCTION                                                                     |                                                                                    |                                                                                     |                                                                                      |
|  |                                                                                    |                                                                                     |                                                                                      |
|                                                                                     |                                                                                    |                                                                                     |                                                                                      |



- 1 Side perforations to improve the tethering of the cables.
- 2 Security edge to avoid accidents.
- 3 Bidirectional perforating system to make the fixation of the cables easier.
- 4 The thickness varies depending on the model to adapt the resistance to flexure to the cable's capacity.
- 5 The cover is fixed using an additional piece.



| B(mm) | USEFUL AREA (cm²) |
|-------|-------------------|
|       | H50               |
| 75    | 34                |
| 100   | 46                |
| 150   | 70                |
| 225   | 106               |
| 300   | 143               |
| 450   | 215               |
| 600   | 284               |

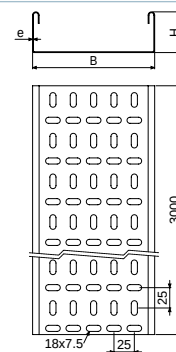
## BS H50 PERFORATED METALLIC HIGH LOAD CABLE TRAY



| DESCRIPTION   | UVM    | UVE    | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL | GS     |        | GC     |        |
|---------------|--------|--------|---------|---------|---------|-------------|--------|--------|--------|--------|
|               | Ud. L3 | Ud. L3 |         |         |         |             | REF.   | (kg/m) | REF.   | (kg/m) |
| B/P BS 75x50  | 1      | 1      | 75      | 50      | 1       | 85          | 2/3785 | 1,45   | 2/3980 | 1,65   |
| B/P BS 100x50 | 1      | 1      | 100     | 50      | 1       | 85          | 2/3786 | 1,61   | 2/3981 | 1,83   |
| B/P BS 150x50 | 1      | 1      | 150     | 50      | 1       | 85          | 2/3787 | 1,93   | 2/3982 | 2,20   |
| B/P BS 225x50 | 1      | 1      | 225     | 50      | 1,2     | 110         | 2/3788 | 2,87   | 2/3983 | 3,22   |
| B/P BS 300x50 | 1      | 1      | 300     | 50      | 1,2     | 110         | 2/3789 | 3,45   | 2/3984 | 3,86   |
| B/P BS 450x50 | 1      | 1      | 450     | 50      | 1,5     | 150         | 2/3790 | 5,79   | 2/3985 | 6,37   |
| B/P BS 600x50 | 1      | 1      | 600     | 50      | 2       | 190         | 2/3791 | 9,59   | 2/3986 | 10,31  |

To assemble the cable trays, 2 outside couplers (reference number 2/3801 in GS or 2/3996 in GC) or 2 inside couplers (2/3800 in GS or 2/3995 in GC) and 8 bolts with reference number 2/4356 in GS or 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



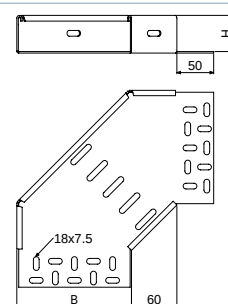
## CPBS HORIZONTAL BEND



| DESCRIPTION | UVM | UVE | B<br>mm | H<br>mm | GS     |       | GC     |       |
|-------------|-----|-----|---------|---------|--------|-------|--------|-------|
|             | ud  | ud  |         |         | REF.   | kg/ud | REF.   | kg/ud |
| CPBS 75x50  | 1   | 1   | 75      | 50      | 2/3811 | 0,25  | 2/4006 | 0,29  |
| CPBS 100x50 | 1   | 1   | 100     | 50      | 2/3812 | 0,33  | 2/4007 | 0,38  |
| CPBS 150x50 | 1   | 1   | 150     | 50      | 2/3813 | 0,51  | 2/4008 | 0,58  |
| CPBS 225x50 | 1   | 1   | 225     | 50      | 2/3814 | 1,00  | 2/4009 | 1,12  |
| CPBS 300x50 | 1   | 1   | 300     | 50      | 2/3815 | 1,48  | 2/4010 | 1,66  |
| CPBS 450x50 | 1   | 1   | 450     | 50      | 2/3816 | 3,39  | 2/4011 | 3,72  |
| CPBS 600x50 | 1   | 1   | 600     | 50      | 2/3817 | 7,15  | 2/4012 | 7,68  |

Horizontal bends **need no couplers to attach them to the cable trays**, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 4 bolts with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).



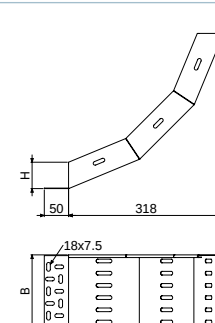
## CCBS VERTICAL INSIDE



| DESCRIPTION | UVM | UVE | B<br>mm | H<br>mm | GS     |       | GC     |       |
|-------------|-----|-----|---------|---------|--------|-------|--------|-------|
|             | ud  | ud  |         |         | REF.   | kg/ud | REF.   | kg/ud |
| CCBS 75x50  | 1   | 1   | 75      | 50      | 2/4249 | 0,74  | 2/4278 | 0,84  |
| CCBS 100x50 | 1   | 1   | 100     | 50      | 2/4250 | 0,83  | 2/4279 | 0,94  |
| CCBS 150x50 | 1   | 1   | 150     | 50      | 2/4251 | 1,03  | 2/4280 | 1,17  |
| CCBS 225x50 | 1   | 1   | 225     | 50      | 2/4252 | 1,60  | 2/4281 | 1,79  |
| CCBS 300x50 | 1   | 1   | 300     | 50      | 2/4253 | 1,97  | 2/4282 | 2,20  |
| CCBS 450x50 | 1   | 1   | 450     | 50      | 2/4254 | 2,70  | 2/4283 | 2,97  |
| CCBS 600x50 | 1   | 1   | 600     | 50      | 2/4255 | 5,71  | 2/4284 | 6,14  |

Vertical insides **need no couplers to attach them to the cable trays**, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 4 bolts with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).



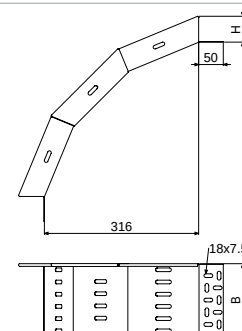
## CXBS VERTICAL OUTSIDE



| DESCRIPTION | UVM | UVE | B<br>mm | H<br>mm | GS     |       | GC     |       |
|-------------|-----|-----|---------|---------|--------|-------|--------|-------|
|             | ud  | ud  |         |         | REF.   | kg/ud | REF.   | kg/ud |
| CXBS 75x50  | 1   | 1   | 75      | 50      | 2/3820 | 0,89  | 2/4015 | 1,02  |
| CXBS 100x50 | 1   | 1   | 100     | 50      | 2/3821 | 1,00  | 2/4016 | 1,14  |
| CXBS 150x50 | 1   | 1   | 150     | 50      | 2/3822 | 1,21  | 2/4017 | 1,37  |
| CXBS 225x50 | 1   | 1   | 225     | 50      | 2/3823 | 1,76  | 2/4018 | 1,97  |
| CXBS 300x50 | 1   | 1   | 300     | 50      | 2/3824 | 2,13  | 2/4019 | 2,38  |
| CXBS 450x50 | 1   | 1   | 450     | 50      | 2/3825 | 2,86  | 2/4020 | 2,86  |
| CXBS 600x50 | 1   | 1   | 600     | 50      | 2/3826 | 5,98  | 2/4021 | 6,43  |

Vertical outsides **need no couplers to attach them to the cable trays**, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 4 bolts with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).



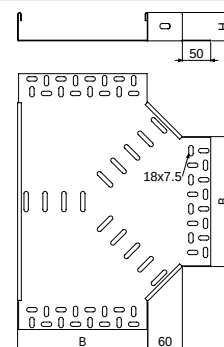
## TEBS INTERSECTION



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|-------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|             |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| TEBS 75x50  | 1         | 1         | 75      | 50      | 2/3829 | 0,40  | 2/4024 | 0,45  |
| TEBS 100x50 | 1         | 1         | 100     | 50      | 2/3830 | 0,44  | 2/4025 | 0,51  |
| TEBS 150x50 | 1         | 1         | 150     | 50      | 2/3831 | 0,67  | 2/4026 | 0,76  |
| TEBS 225x50 | 1         | 1         | 225     | 50      | 2/3832 | 1,27  | 2/4027 | 1,43  |
| TEBS 300x50 | 1         | 1         | 300     | 50      | 2/3833 | 1,87  | 2/4028 | 2,09  |
| TEBS 450x50 | 1         | 1         | 450     | 50      | 2/3834 | 3,37  | 2/4029 | 3,71  |
| TEBS 600x50 | 1         | 1         | 600     | 50      | 2/3835 | 5,30  | 2/4030 | 5,70  |

TEBS intersections **need no couplers to attach them to the cable trays**, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 8 bolts with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

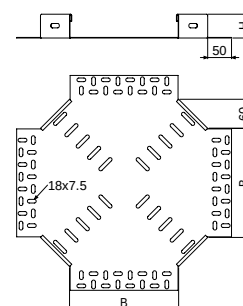


## CRBS INTERSECTION



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GS     |       | GC     |       |
|-------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|             |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| CRBS 75x50  | 1         | 1         | 75      | 50      | 2/3838 | 0,47  | 2/4033 | 0,54  |
| CRBS 100x50 | 1         | 1         | 100     | 50      | 2/3839 | 0,58  | 2/4034 | 0,66  |
| CRBS 150x50 | 1         | 1         | 150     | 50      | 2/3840 | 0,84  | 2/4035 | 0,96  |
| CRBS 225x50 | 1         | 1         | 225     | 50      | 2/3841 | 1,52  | 2/4036 | 0,18  |
| CRBS 300x50 | 1         | 1         | 300     | 50      | 2/3842 | 2,14  | 2/4037 | 0,26  |
| CRBS 450x50 | 1         | 1         | 450     | 50      | 2/3843 | 3,72  | 2/4038 | 4,10  |
| CRBS 600x50 | 1         | 1         | 600     | 50      | 2/3844 | 5,38  | 2/4039 | 5,78  |

CRBS intersections **need no couplers to attach them to the cable trays**, as they can be attached by way of the projection located in the base of the bend. Each bend requires 4 bolts with reference number 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

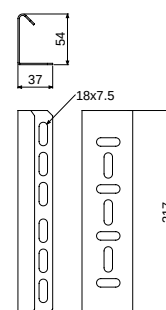


## OUTSIDE JOINT BS



| DESCRIPTION            | UVM<br>ud | UVE<br>ud | H<br>mm | GS     |       | GC     |       |
|------------------------|-----------|-----------|---------|--------|-------|--------|-------|
|                        |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| JU Exterior BS Alt. 50 | 1         | 1         | 50      | 2/3801 | 0,24  | 2/3996 | 0,27  |

The union is used to mount trays BS. Each piece requires 4 bolts reference 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

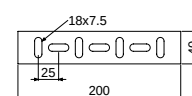


## INSIDE JOINT PLATE BS



| DESCRIPTION         | UVM<br>ud | UVE<br>ud | H<br>mm | GS     |       | GC     |       |
|---------------------|-----------|-----------|---------|--------|-------|--------|-------|
|                     |           |           |         | REF.   | kg/ud | REF.   | kg/ud |
| JU Union BS Alt. 50 | 1         | 1         | 50      | 2/3800 | 0,06  | 2/3995 | 0,06  |

The union is used to mount trays BS. Each piece requires 4 bolts reference 2/4356 in GS or 2/6826 in GC (products packed in bags containing 100 units).

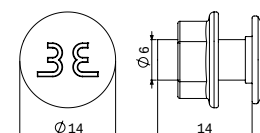


## B1 BOLT SET



| DESCRIPTION                | UVM<br>ud | UVE<br>ud | Pap<br>Nm | CINCADO |       | GC     |       |
|----------------------------|-----------|-----------|-----------|---------|-------|--------|-------|
|                            |           |           |           | REF.    | kg/ud | REF.   | kg/ud |
| Pack 100 B1 Bolt set M6x14 | 1         | 1         | 6         | 2/4356  | 1,00  | 2/6826 | 1,00  |

The B1 bolt set consists of a M6x14 DIN603 mushroom head square neck bolt and a M6 DIN6923 flange nut with serration for a perfect fit. Used to mount all accessories BASORTRAY Series.





## MOUNTS BS

OUTSIDE JOINT BS



INSIDE JOINT PLATE BS



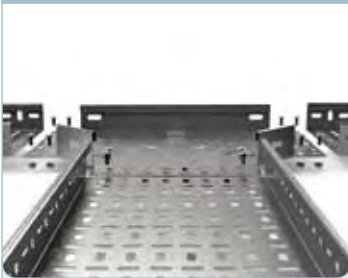
CPBS HORIZONTAL BEND



CCBS VERTICAL INSIDE



TEBS INTERSECTION





1. Bidirectional perforating system to make the fixation of the cables easier.
2. Thickness of 1.5, 2 or 2.5mm in order to ensure a good resistance to flexure and a high degree of durability for the most adverse needs\*.
3. The cover is fixed using an additional piece.



| B(mm) | USEFUL AREA (cm²) |     |     |
|-------|-------------------|-----|-----|
|       | U e = 2 mm        |     |     |
|       | H20               | H30 | H50 |
| 50    | 8                 | 13  | 22  |
| 100   | 17                | 27  | 46  |
| 150   | 26                | 41  | 70  |
| 200   | 35                | 55  | 94  |
| 300   | 53                | 83  | 142 |
| 400   | -                 | -   | 190 |
| 500   | -                 | -   | 238 |
| 600   | -                 | -   | 286 |

\*For thicknesses which are not displayed in the catalogue, please contact our commercial department.

## U H15 PERFORATED METALLIC HIGH LOAD CABLE TRAY

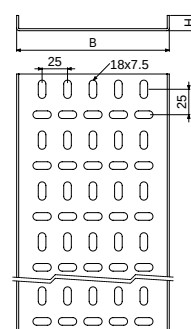


L = 2 m

| DESCRIPTION    | UVM | UVE | B   | H  | e  | d=1,5m     | GC     |        |
|----------------|-----|-----|-----|----|----|------------|--------|--------|
|                | m   | m   | mm  | mm | mm | SWL (kg/m) | REF.   | (kg/m) |
| B/P U 50x15x2  | 2   | 2   | 50  | 15 | 2  | 20         | 2/0569 | 1,15   |
| B/P U 100x15x2 | 2   | 2   | 100 | 15 | 2  | 20         | 2/0570 | 1,84   |
| B/P U 150x15x2 | 2   | 2   | 150 | 15 | 2  | 20         | 2/0571 | 2,54   |
| B/P U 200x15x2 | 2   | 2   | 200 | 15 | 2  | 20         | 2/0572 | 3,23   |
| B/P U 300x15x2 | 2   | 2   | 300 | 15 | 2  | 20         | 2/0573 | 4,61   |

To assemble the cable trays, 2 outside JUE H12 joint reference 2/3186 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



## U H30 PERFORATED METALLIC HIGH LOAD CABLE TRAY

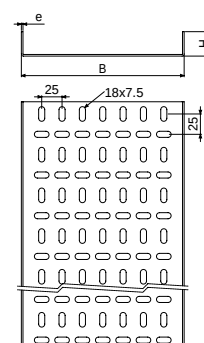


L = 3 m

| DESCRIPTION    | UVM | UVE | B   | H  | e  | d=2m       | GC     |        |
|----------------|-----|-----|-----|----|----|------------|--------|--------|
|                | m   | m   | mm  | mm | mm | SWL (kg/m) | REF.   | (kg/m) |
| B/P U 50x30x2  | 3   | 3   | 50  | 30 | 2  | 40         | 2/0577 | 1,67   |
| B/P U 100x30x2 | 3   | 3   | 100 | 30 | 2  | 40         | 2/0578 | 2,36   |
| B/P U 150x30x2 | 3   | 3   | 150 | 30 | 2  | 40         | 2/0579 | 3,05   |
| B/P U 200x30x2 | 3   | 3   | 200 | 30 | 2  | 40         | 2/0580 | 3,74   |
| B/P U 300x30x2 | 3   | 3   | 300 | 30 | 2  | 40         | 2/0581 | 5,12   |

To assemble the cable trays, 2 outside JUE H25 joint reference 2/3187 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



## U H50 PERFORATED METALLIC HIGH LOAD CABLE TRAY

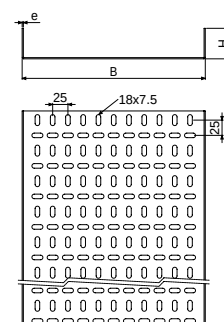


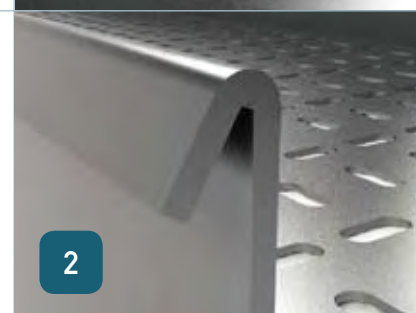
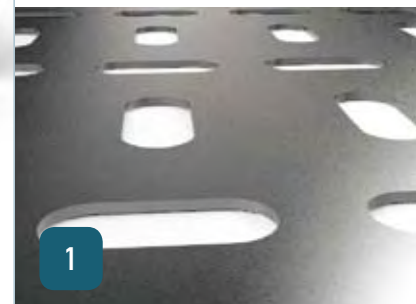
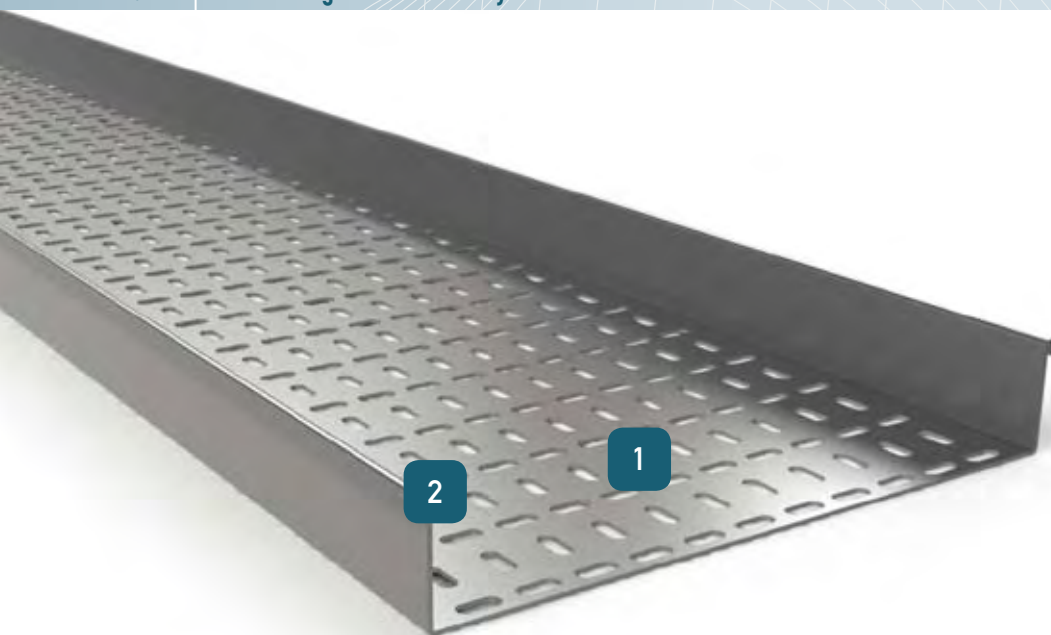
L = 3 m

| DESCRIPTION    | UVM | UVE | B   | H  | e  | d=2m       | GC     |        |
|----------------|-----|-----|-----|----|----|------------|--------|--------|
|                | m   | m   | mm  | mm | mm | SWL (kg/m) | REF.   | (kg/m) |
| B/P U 50x50x2  | 3   | 3   | 50  | 50 | 2  | 100        | 2/0585 | 2,36   |
| B/P U 100x50x2 | 3   | 3   | 100 | 50 | 2  | 100        | 2/0586 | 3,05   |
| B/P U 150x50x2 | 3   | 3   | 150 | 50 | 2  | 100        | 2/0587 | 3,74   |
| B/P U 200x50x2 | 3   | 3   | 200 | 50 | 2  | 100        | 2/0588 | 4,43   |
| B/P U 300x50x2 | 3   | 3   | 300 | 50 | 2  | 100        | 2/0589 | 5,81   |
| B/P U 400x50x2 | 3   | 3   | 400 | 50 | 2  | 100        | 2/0590 | 7,28   |
| B/P U 500x50x2 | 3   | 3   | 500 | 50 | 2  | 100        | 2/0591 | 8,66   |
| B/P U 600x50x2 | 3   | 3   | 600 | 50 | 2  | 100        | 2/0592 | 10,04  |

To assemble the cable trays, 2 outside JUE H45 joint reference 2/3655 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.





- 1 Bidirectional perforating system to make the fixation of the cables easier.
- 2 Thickness of 1.5, 2 or 2.5mm in order to ensure a good resistance to flexure and a high degree of durability for the most adverse needs\*.
- 3 The cover is fixed using an additional piece.

| B(mm) | USEFUL AREA (cm²) |     |     |
|-------|-------------------|-----|-----|
|       | H20               | H30 | H50 |
| 50    | 8                 | 12  | 21  |
| 100   | 17                | 26  | 45  |
| 150   | 25                | 40  | 69  |
| 200   | 34                | 54  | 93  |
| 300   | 52                | 81  | 140 |
| 400   | -                 | -   | 188 |
| 500   | -                 | -   | 235 |
| 600   | -                 | -   | 283 |

\*For thicknesses which are not displayed in the catalogue, please contact our commercial department.



## OMEGA H20 2mm PERFORATED METALLIC HIGH LOAD CABLE TRAY

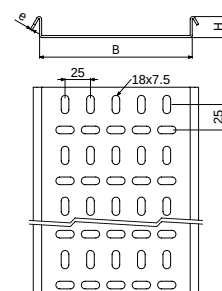


L = 3 m

| DESCRIPTION        | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GC     |        |
|--------------------|----------|----------|---------|---------|---------|--------------------|--------|--------|
|                    |          |          |         |         |         |                    | REF.   | (kg/m) |
| B/P OMEGA 50x20x2  | 3        | 3        | 50      | 20      | 2       | 80                 | 2/0405 | 1,64   |
| B/P OMEGA 100x20x2 | 3        | 3        | 100     | 20      | 2       | 80                 | 2/0406 | 2,32   |
| B/P OMEGA 150x20x2 | 3        | 3        | 150     | 20      | 2       | 80                 | 2/0407 | 2,99   |
| B/P OMEGA 200x20x2 | 3        | 3        | 200     | 20      | 2       | 80                 | 2/0408 | 3,67   |
| B/P OMEGA 300x20x2 | 3        | 3        | 300     | 20      | 2       | 80                 | 2/0409 | 5,03   |

To assemble the cable trays, 2 outside JUE H12 joint reference 2/3186 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



## OMEGA H30 2mm PERFORATED METALLIC HIGH LOAD CABLE TRAY

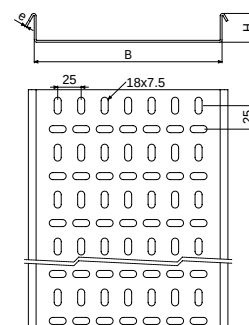


L = 3 m  
(50x30x2 - L = 2 m)

| DESCRIPTION        | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GC     |        |
|--------------------|----------|----------|---------|---------|---------|--------------------|--------|--------|
|                    |          |          |         |         |         |                    | REF.   | (kg/m) |
| B/P OMEGA 50x30x2  | 2        | 2        | 50      | 30      | 2       | 110                | 2/0413 | 1,98   |
| B/P OMEGA 100x30x2 | 3        | 3        | 100     | 30      | 2       | 110                | 2/0414 | 2,65   |
| B/P OMEGA 150x30x2 | 3        | 3        | 150     | 30      | 2       | 110                | 2/5977 | 3,33   |
| B/P OMEGA 200x30x2 | 3        | 3        | 200     | 30      | 2       | 110                | 2/0416 | 4,00   |
| B/P OMEGA 300x30x2 | 3        | 3        | 300     | 30      | 2       | 110                | 2/0417 | 5,37   |

To assemble the cable trays, 2 outside JUE H25 joint reference 2/3187 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



## OMEGA H50 2mm PERFORATED METALLIC HIGH LOAD CABLE TRAY

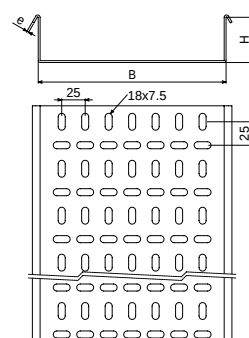


L = 3 m

| DESCRIPTION        | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GC     |        |
|--------------------|----------|----------|---------|---------|---------|--------------------|--------|--------|
|                    |          |          |         |         |         |                    | REF.   | (kg/m) |
| B/P OMEGA 50x50x2  | 3        | 3        | 50      | 50      | 2       | 150                | 2/0421 | 2,65   |
| B/P OMEGA 100x50x2 | 3        | 3        | 100     | 50      | 2       | 150                | 2/0422 | 3,33   |
| B/P OMEGA 150x50x2 | 3        | 3        | 150     | 50      | 2       | 150                | 2/0423 | 4,01   |
| B/P OMEGA 200x50x2 | 3        | 3        | 200     | 50      | 2       | 150                | 2/0424 | 4,68   |
| B/P OMEGA 300x50x2 | 3        | 3        | 300     | 50      | 2       | 150                | 2/0425 | 6,04   |
| B/P OMEGA 400x50x2 | 3        | 3        | 400     | 50      | 2       | 150                | 2/0426 | 7,48   |
| B/P OMEGA 500x50x2 | 3        | 3        | 500     | 50      | 2       | 150                | 2/0427 | 8,84   |
| B/P OMEGA 600x50x2 | 3        | 3        | 600     | 50      | 2       | 150                | 2/3218 | 10,19  |

To assemble the cable trays, 2 outside JUE H45 joint reference 2/3655 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



## OMEGA H20 2.5mm PERFORATED METALLIC HIGH LOAD CABLE TRAY

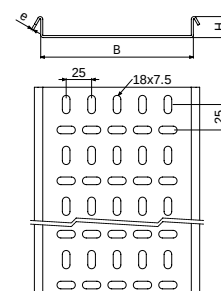


L = 2 m

| DESCRIPTION          | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GC     |        |
|----------------------|----------|----------|---------|---------|---------|--------------------|--------|--------|
|                      |          |          |         |         |         |                    | REF.   | (kg/m) |
| B/P OMEGA 50x20x2,5  | 2        | 2        | 50      | 20      | 2,5     | 100                | 2/0446 | 1,98   |
| B/P OMEGA 100x20x2,5 | 2        | 2        | 100     | 20      | 2,5     | 100                | 2/0447 | 2,81   |
| B/P OMEGA 150x20x2,5 | 2        | 2        | 150     | 20      | 2,5     | 100                | 2/0448 | 3,64   |
| B/P OMEGA 200x20x2,5 | 2        | 2        | 200     | 20      | 2,5     | 100                | 2/0449 | 4,46   |
| B/P OMEGA 300x20x2,5 | 2        | 2        | 300     | 20      | 2,5     | 100                | 2/0450 | 6,12   |

To assemble the cable trays, 2 outside JUE H12 joint reference 2/3186 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



## OMEGA H30 2.5mm PERFORATED METALLIC HIGH LOAD CABLE TRAY

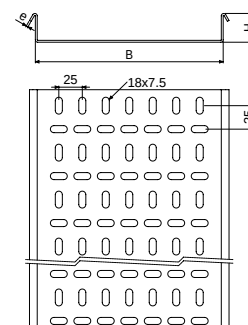


L = 2 m

| DESCRIPTION          | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GC     |        |
|----------------------|----------|----------|---------|---------|---------|--------------------|--------|--------|
|                      |          |          |         |         |         |                    | REF.   | (kg/m) |
| B/P OMEGA 50x30x2,5  | 2        | 2        | 50      | 30      | 2,5     | 140                | 2/0454 | 2,39   |
| B/P OMEGA 100x30x2,5 | 2        | 2        | 100     | 30      | 2,5     | 140                | 2/0455 | 3,22   |
| B/P OMEGA 150x30x2,5 | 2        | 2        | 150     | 30      | 2,5     | 140                | 2/0456 | 4,05   |
| B/P OMEGA 200x30x2,5 | 2        | 2        | 200     | 30      | 2,5     | 140                | 2/0457 | 4,88   |
| B/P OMEGA 300x30x2,5 | 2        | 2        | 300     | 30      | 2,5     | 140                | 2/0458 | 6,53   |

To assemble the cable trays, 2 outside JUE H25 joint reference 2/3187 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

For more technical information, please consult page 211.



## OMEGA H50 2.5mm PERFORATED METALLIC HIGH LOAD CABLE TRAY

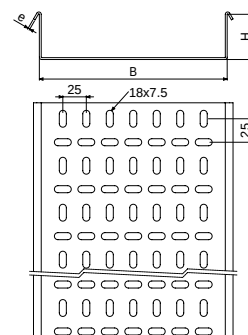


L = 2 m

| DESCRIPTION          | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2m<br>SWL (kg/m) | GC     |        |
|----------------------|----------|----------|---------|---------|---------|--------------------|--------|--------|
|                      |          |          |         |         |         |                    | REF.   | (kg/m) |
| B/P OMEGA 50x50x2,5  | 2        | 2        | 50      | 50      | 2,5     | 200                | 2/0462 | 3,22   |
| B/P OMEGA 100x50x2,5 | 2        | 2        | 100     | 50      | 2,5     | 200                | 2/0463 | 4,04   |
| B/P OMEGA 150x50x2,5 | 2        | 2        | 150     | 50      | 2,5     | 200                | 2/0464 | 4,87   |
| B/P OMEGA 200x50x2,5 | 2        | 2        | 200     | 50      | 2,5     | 200                | 2/0465 | 5,70   |
| B/P OMEGA 300x50x2,5 | 2        | 2        | 300     | 50      | 2,5     | 200                | 2/0466 | 7,35   |
| B/P OMEGA 400x50x2,5 | 2        | 2        | 400     | 50      | 2,5     | 200                | 2/0467 | 9,11   |
| B/P OMEGA 500x50x2,5 | 2        | 2        | 500     | 50      | 2,5     | 200                | 2/0468 | 10,77  |
| B/P OMEGA 600x50x2,5 | 2        | 2        | 600     | 50      | 2,5     | 200                | 2/4505 | 12,42  |

To assemble the cable trays, 2 outside JUE H45 joint reference 2/3655 in GC and 4 bolts reference 2/6826 in GC are needed per piece (products packed in bags of 100).

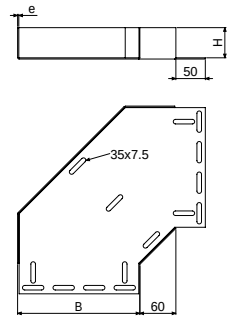
For more technical information, please consult page 211.



## CPU/OME HORIZONTAL BEND



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |         |
|-------------------|-----------|-----------|---------|---------|---------|--------|---------|
|                   |           |           |         |         |         | REF.   | (kg/ud) |
| CP U/OMEGA 50x15  | 1         | 1         | 50      | 15      | 2       | 2/2069 | 0,21    |
| CP U/OMEGA 100x15 | 1         | 1         | 100     | 15      | 2       | 2/2070 | 0,47    |
| CP U/OMEGA 150x15 | 1         | 1         | 150     | 15      | 2       | 2/2071 | 0,81    |
| CP U/OMEGA 200x15 | 1         | 1         | 200     | 15      | 2       | 2/2072 | 1,22    |
| CP U/OMEGA 300x15 | 1         | 1         | 300     | 15      | 2       | 2/2073 | 2,24    |
| CP U/OMEGA 50x30  | 1         | 1         | 50      | 30      | 2       | 2/2077 | 0,28    |
| CP U/OMEGA 100x30 | 1         | 1         | 100     | 30      | 2       | 2/2078 | 0,56    |
| CP U/OMEGA 150x30 | 1         | 1         | 150     | 30      | 2       | 2/2079 | 0,92    |
| CP U/OMEGA 200x30 | 1         | 1         | 200     | 30      | 2       | 2/2080 | 1,34    |
| CP U/OMEGA 300x30 | 1         | 1         | 300     | 30      | 2       | 2/2081 | 2,41    |
| CP U/OMEGA 50x50  | 1         | 1         | 50      | 50      | 2       | 2/2085 | 0,36    |
| CP U/OMEGA 100x50 | 1         | 1         | 100     | 50      | 2       | 2/2086 | 0,67    |
| CP U/OMEGA 150x50 | 1         | 1         | 150     | 50      | 2       | 2/2087 | 1,06    |
| CP U/OMEGA 200x50 | 1         | 1         | 200     | 50      | 2       | 2/2088 | 1,51    |
| CP U/OMEGA 300x50 | 1         | 1         | 300     | 50      | 2       | 2/2089 | 2,64    |
| CP U/OMEGA 400x50 | 1         | 1         | 400     | 50      | 2       | 2/2090 | 4,04    |
| CP U/OMEGA 500x50 | 1         | 1         | 500     | 50      | 2       | 2/2091 | 5,73    |
| CP U/OMEGA 600x50 | 1         | 1         | 600     | 50      | 2       | 2/2092 | 7,70    |



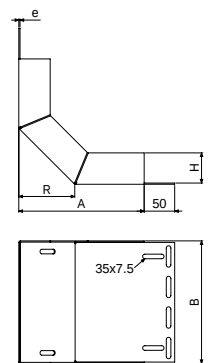
Horizontal bends need no couplers to attach them to the cable trays, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 4 bolts reference number 2/6826 in GC (products packed in bags of 100).

## CCU/OME VERTICAL INSIDE



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | R<br>mm | A<br>mm | GC     |         |
|-------------------|-----------|-----------|---------|---------|---------|---------|---------|--------|---------|
|                   |           |           |         |         |         |         |         | REF.   | (kg/ud) |
| CC U/OMEGA 50x15  | 1         | 1         | 50      | 15      | 2       | 80      | 173     | 2/2249 | 0,40    |
| CC U/OMEGA 100x15 | 1         | 1         | 100     | 15      | 2       | 80      | 173     | 2/2250 | 0,73    |
| CC U/OMEGA 150x15 | 1         | 1         | 150     | 15      | 2       | 85      | 188     | 2/2251 | 1,14    |
| CC U/OMEGA 200x15 | 1         | 1         | 200     | 15      | 2       | 90      | 203     | 2/2252 | 1,60    |
| CC U/OMEGA 300x15 | 1         | 1         | 300     | 15      | 2       | 130     | 294     | 2/2253 | 3,21    |
| CC U/OMEGA 50x30  | 1         | 1         | 50      | 30      | 2       | 80      | 173     | 2/2257 | 0,51    |
| CC U/OMEGA 100x30 | 1         | 1         | 100     | 30      | 2       | 80      | 173     | 2/2258 | 0,83    |
| CC U/OMEGA 150x30 | 1         | 1         | 150     | 30      | 2       | 85      | 188     | 2/2259 | 1,26    |
| CC U/OMEGA 200x30 | 1         | 1         | 200     | 30      | 2       | 90      | 203     | 2/2260 | 1,74    |
| CC U/OMEGA 300x30 | 1         | 1         | 300     | 30      | 2       | 130     | 294     | 2/2261 | 3,41    |
| CC U/OMEGA 50x50  | 1         | 1         | 50      | 50      | 2       | 80      | 173     | 2/2265 | 0,60    |
| CC U/OMEGA 100x50 | 1         | 1         | 100     | 50      | 2       | 80      | 173     | 2/2266 | 0,92    |
| CC U/OMEGA 150x50 | 1         | 1         | 150     | 50      | 2       | 85      | 188     | 2/2267 | 1,37    |
| CC U/OMEGA 200x50 | 1         | 1         | 200     | 50      | 2       | 90      | 203     | 2/2268 | 1,87    |
| CC U/OMEGA 300x50 | 1         | 1         | 300     | 50      | 2       | 130     | 294     | 2/2269 | 3,64    |
| CC U/OMEGA 400x50 | 1         | 1         | 400     | 50      | 2       | 160     | 324     | 2/2270 | 5,06    |
| CC U/OMEGA 500x50 | 1         | 1         | 500     | 50      | 2       | 160     | 354     | 2/2271 | 6,65    |
| CC U/OMEGA 600x50 | 1         | 1         | 600     | 50      | 2       | 220     | 434     | 2/2272 | 9,35    |



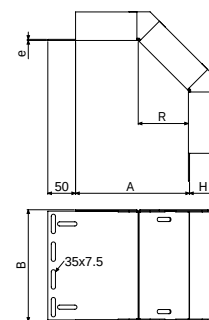
Vertical insides need no couplers to attach them to the cable trays, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 4 bolts reference number 2/6826 in GC (products packed in bags of 100).

## CXU/OME VERTICAL OUTSIDE



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | R<br>mm | A<br>mm | GC     |         |
|-------------------|-----------|-----------|---------|---------|---------|---------|---------|--------|---------|
|                   |           |           |         |         |         |         |         | REF.   | (kg/ud) |
| CX U/OMEGA 50x15  | 1         | 1         | 50      | 15      | 2       | 60      | 141     | 2/2429 | 0,42    |
| CX U/OMEGA 100x15 | 1         | 1         | 100     | 15      | 2       | 60      | 141     | 2/2430 | 0,70    |
| CX U/OMEGA 150x15 | 1         | 1         | 150     | 15      | 2       | 65      | 156     | 2/2431 | 1,07    |
| CX U/OMEGA 200x15 | 1         | 1         | 200     | 15      | 2       | 75      | 176     | 2/2432 | 1,49    |
| CX U/OMEGA 300x15 | 1         | 1         | 300     | 15      | 2       | 75      | 176     | 2/2433 | 2,94    |
| CX U/OMEGA 50x30  | 1         | 1         | 50      | 30      | 2       | 60      | 141     | 2/2437 | 0,61    |
| CX U/OMEGA 100x30 | 1         | 1         | 100     | 30      | 2       | 60      | 141     | 2/2438 | 0,89    |
| CX U/OMEGA 150x30 | 1         | 1         | 150     | 30      | 2       | 65      | 156     | 2/2439 | 1,27    |
| CX U/OMEGA 200x30 | 1         | 1         | 200     | 30      | 2       | 75      | 176     | 2/2440 | 1,71    |
| CX U/OMEGA 300x30 | 1         | 1         | 300     | 30      | 2       | 110     | 262     | 2/2441 | 3,29    |
| CX U/OMEGA 50x50  | 1         | 1         | 50      | 50      | 2       | 60      | 141     | 2/2445 | 0,86    |
| CX U/OMEGA 100x50 | 1         | 1         | 100     | 50      | 2       | 60      | 141     | 2/2446 | 1,14    |
| CX U/OMEGA 150x50 | 1         | 1         | 150     | 50      | 2       | 65      | 156     | 2/2447 | 1,55    |
| CX U/OMEGA 200x50 | 1         | 1         | 200     | 50      | 2       | 75      | 176     | 2/2448 | 2,00    |
| CX U/OMEGA 300x50 | 1         | 1         | 300     | 50      | 2       | 110     | 262     | 2/2449 | 3,69    |
| CX U/OMEGA 400x50 | 1         | 1         | 400     | 50      | 2       | 115     | 277     | 2/2450 | 4,86    |
| CX U/OMEGA 500x50 | 1         | 1         | 500     | 50      | 2       | 130     | 312     | 2/2451 | 6,43    |
| CX U/OMEGA 600x50 | 1         | 1         | 600     | 50      | 2       | 160     | 382     | 2/2452 | 8,92    |



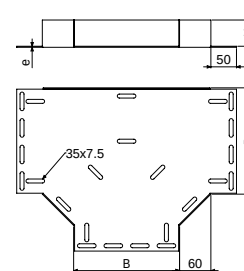
Vertical outsides need no couplers to attach them to the cable trays, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 4 bolts reference 2/6826 in GC (products packed in bags of 100).

## TEU/OME INTERSECTION



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |         |
|-------------------|-----------|-----------|---------|---------|---------|--------|---------|
|                   |           |           |         |         |         | REF.   | (kg/ud) |
| TE U/OMEGA 50x15  | 1         | 1         | 50      | 15      | 2       | 2/2789 | 0,41    |
| TE U/OMEGA 100x15 | 1         | 1         | 100     | 15      | 2       | 2/2790 | 0,79    |
| TE U/OMEGA 150x15 | 1         | 1         | 150     | 15      | 2       | 2/2791 | 1,27    |
| TE U/OMEGA 200x15 | 1         | 1         | 200     | 15      | 2       | 2/2792 | 1,82    |
| TE U/OMEGA 300x15 | 1         | 1         | 300     | 15      | 2       | 2/2793 | 3,19    |
| TE U/OMEGA 50x30  | 1         | 1         | 50      | 30      | 2       | 2/2797 | 0,49    |
| TE U/OMEGA 100x30 | 1         | 1         | 100     | 30      | 2       | 2/2798 | 0,88    |
| TE U/OMEGA 150x30 | 1         | 1         | 150     | 30      | 2       | 2/2799 | 1,38    |
| TE U/OMEGA 200x30 | 1         | 1         | 200     | 30      | 2       | 2/2800 | 1,95    |
| TE U/OMEGA 300x30 | 1         | 1         | 300     | 30      | 2       | 2/2801 | 3,35    |
| TE U/OMEGA 50x50  | 1         | 1         | 50      | 50      | 2       | 2/2805 | 0,60    |
| TE U/OMEGA 100x50 | 1         | 1         | 100     | 50      | 2       | 2/2806 | 1,01    |
| TE U/OMEGA 150x50 | 1         | 1         | 150     | 50      | 2       | 2/2807 | 1,52    |
| TE U/OMEGA 200x50 | 1         | 1         | 200     | 50      | 2       | 2/2808 | 2,11    |
| TE U/OMEGA 300x50 | 1         | 1         | 300     | 50      | 2       | 2/2809 | 3,54    |
| TE U/OMEGA 400x50 | 1         | 1         | 400     | 50      | 2       | 2/2810 | 5,33    |
| TE U/OMEGA 500x50 | 1         | 1         | 500     | 50      | 2       | 2/2811 | 7,44    |
| TE U/OMEGA 600x50 | 1         | 1         | 600     | 50      | 2       | 2/2812 | 9,89    |



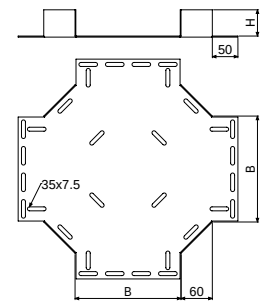
TE intersections need no couplers to attach them to the cable trays, as they can be attached by way of the projection located in the base of the bend.

Each bend requires 8 bolts reference number 2/6826 in GC (products packed in bags containing 100 units).

## CRU/OME INTERSECTION



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |         |
|-------------------|-----------|-----------|---------|---------|---------|--------|---------|
|                   |           |           |         |         |         | REF.   | (kg/ud) |
| CR U/OMEGA 50x15  | 1         | 1         | 50      | 15      | 2       | 2/2609 | 0,53    |
| CR U/OMEGA 100x15 | 1         | 1         | 100     | 15      | 2       | 2/2610 | 1,07    |
| CR U/OMEGA 150x15 | 1         | 1         | 150     | 15      | 2       | 2/2611 | 1,61    |
| CR U/OMEGA 200x15 | 1         | 1         | 200     | 15      | 2       | 2/2612 | 2,17    |
| CR U/OMEGA 300x15 | 1         | 1         | 300     | 15      | 2       | 2/2613 | 3,68    |
| CR U/OMEGA 50x30  | 1         | 1         | 50      | 30      | 2       | 2/2617 | 0,62    |
| CR U/OMEGA 100x30 | 1         | 1         | 100     | 30      | 2       | 2/2618 | 1,07    |
| CR U/OMEGA 150x30 | 1         | 1         | 150     | 30      | 2       | 2/2619 | 1,61    |
| CR U/OMEGA 200x30 | 1         | 1         | 200     | 30      | 2       | 2/2620 | 2,25    |
| CR U/OMEGA 300x30 | 1         | 1         | 300     | 30      | 2       | 2/2621 | 3,77    |
| CR U/OMEGA 50x50  | 1         | 1         | 50      | 50      | 2       | 2/2625 | 0,73    |
| CR U/OMEGA 100x50 | 1         | 1         | 100     | 50      | 2       | 2/2626 | 1,19    |
| CR U/OMEGA 150x50 | 1         | 1         | 150     | 50      | 2       | 2/2627 | 1,73    |
| CR U/OMEGA 200x50 | 1         | 1         | 200     | 50      | 2       | 2/2628 | 2,37    |
| CR U/OMEGA 300x50 | 1         | 1         | 300     | 50      | 2       | 2/2629 | 3,89    |
| CR U/OMEGA 400x50 | 1         | 1         | 400     | 50      | 2       | 2/2630 | 5,74    |
| CR U/OMEGA 500x50 | 1         | 1         | 500     | 50      | 2       | 2/2631 | 7,94    |
| CR U/OMEGA 600x50 | 1         | 1         | 600     | 50      | 2       | 2/2632 | 10,48   |



Cross intersections need no couplers to attach them to the cable trays, as they can be attached by way of the projection located in the base of the bend.

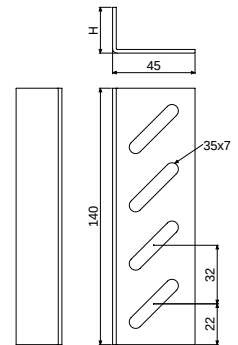
Each bend requires 12 bolts reference number 2/6826 in GC (products packed in bags containing 100 units).

## JUE JOINT



| DESCRIPTION         | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |         |
|---------------------|-----------|-----------|---------|---------|--------|---------|
|                     |           |           |         |         | REF.   | (kg/ud) |
| Union Joint JUE H12 | 1         | 1         | 12      | 2       | 2/3186 | 0,09    |
| Union Joint JUE H25 | 1         | 1         | 25      | 2       | 2/3187 | 0,13    |
| Union Joint JUE H45 | 1         | 1         | 45      | 2       | 2/3655 | 0,16    |

The union is used to mount cable trays BS and U. Each piece requires 2 bolts reference 2/6826 in GC (products packed in bags containing 100 units).

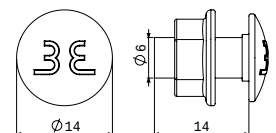


## B1 BOLT SET



| DESCRIPTION                | UVM<br>ud | UVE<br>ud | Pap<br>Nm | GC     |       |
|----------------------------|-----------|-----------|-----------|--------|-------|
|                            |           |           |           | REF.   | kg/ud |
| Pack 100 B1 Bolt Set M6x14 | 1         | 1         | 6         | 2/6826 | 1,00  |

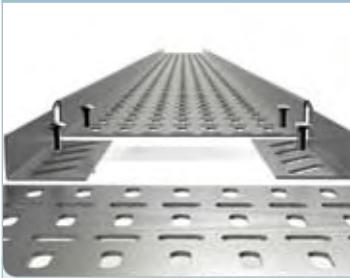
The B1 bolt set consists of a M6x14 DIN603 mushroom head square neck bolt and a M6 DIN6923 flange nut with serration for a perfect fit. Used to mount all accessories BASORTRAY Series.



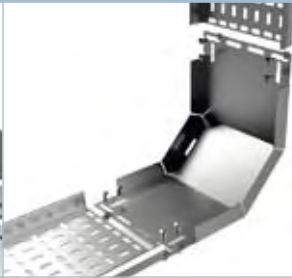


## MOUNTS U/OMEGA

JUE U/OME JOINT



CCU/OME VERTICAL INSIDE

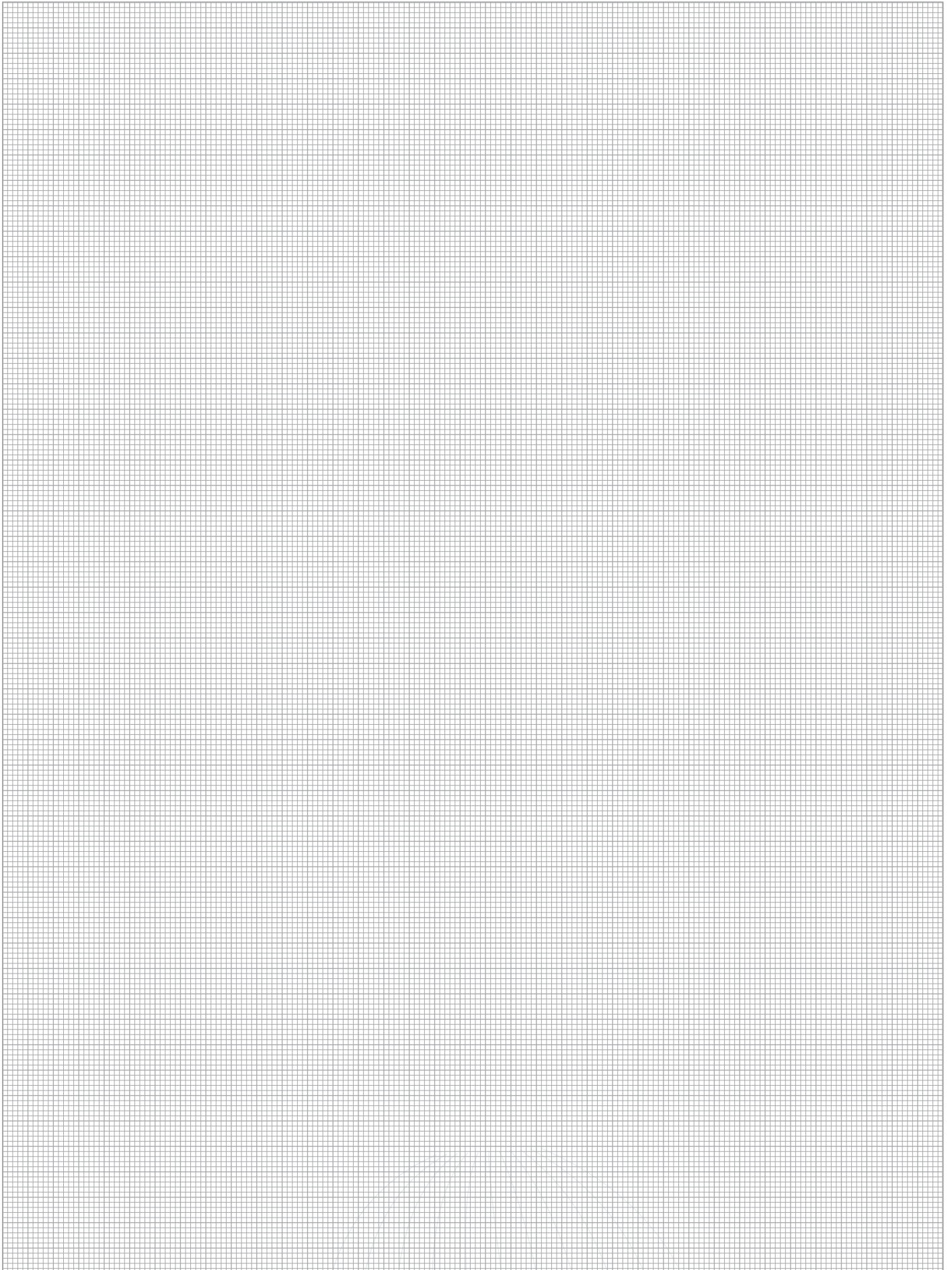


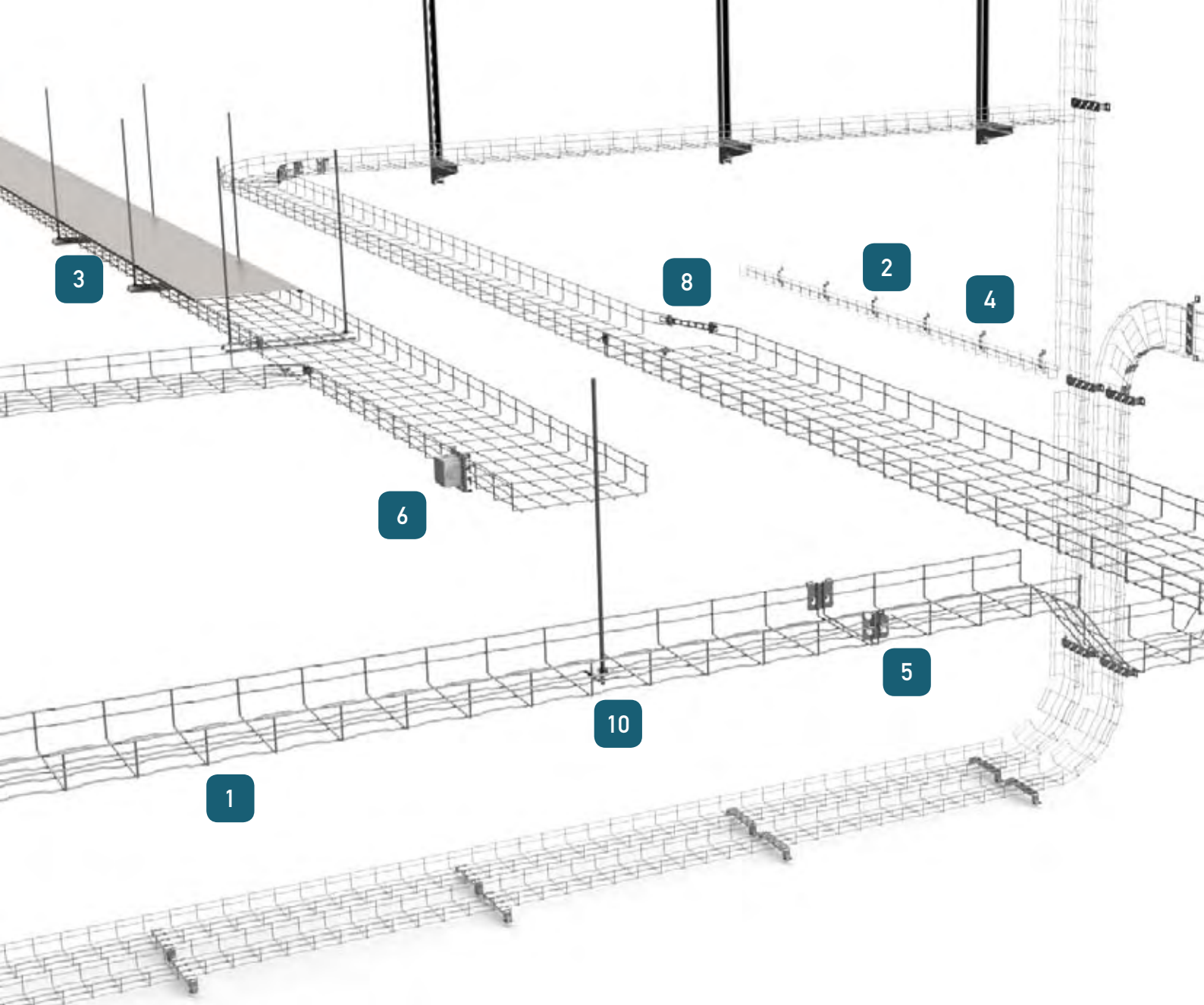
CXU/OME VERTICAL OUTSIDE



CRU/OME CROSS INTERSECTION

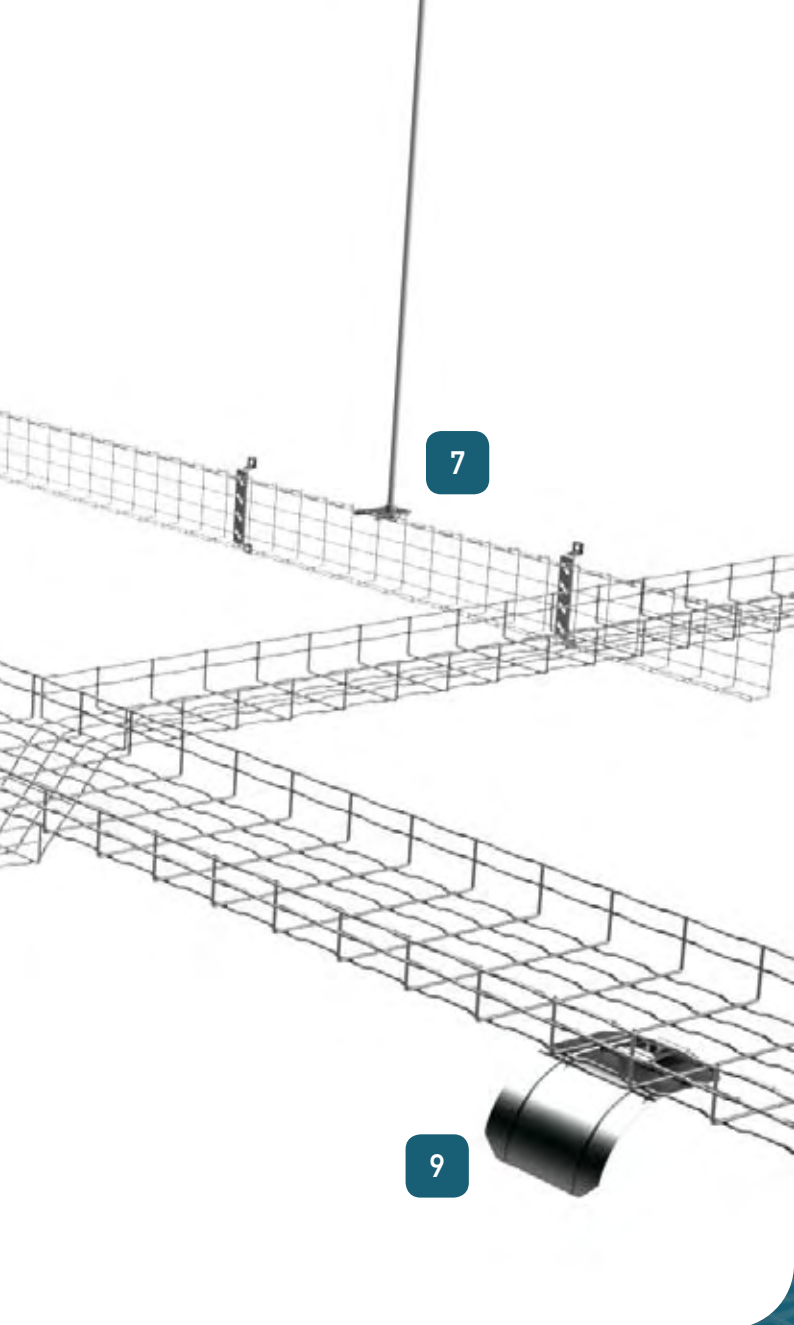






1. High loads wire-mesh cable tray (BFR)
2. Wire-mesh cable tray (BF) 60x65
3. BASORFIL Cover
4. SL Simple support
5. BASORFIL Quick joint
6. Universal support box
7. Conduit exit (STB)
8. Multi-union joint
9. Drop-out plate
10. Central suspension (SSC)

# SCM



## WIRE-MESH CABLE TRAYS

|                                           |         |
|-------------------------------------------|---------|
| High load wire-mesh cable tray (BFR)..... | Page 52 |
| Wire-mesh cable tray (BF) .....           | Page 54 |
| Union elements .....                      | Page 55 |
| Installation accessories .....            | Page 56 |
| BASORFIL Assemblies .....                 | Page 58 |

- BASORFIL is the cheapest and most versatile range of cable trays, as the installer himself can cut and turn the cable conduction systems according to his/her needs. As it doesn't have any accessories, all assemblies of this product are comfortable to perform.
- We recommend using this product for those assemblies which don't require a high load capacity. The finishing process of the whole BASORFIL range of products is carried out completely at BASOR's facilities.

# BASORFIL

CINCADO / GC / BICRO





**P** | PATENTED  
200201809

**1** Optimal solution for systems which don't have high load needs.

**2** Maximum ventilation and cleaning of the cables.

**3** Innovative design patented by BASOR which offers:

- Greater resistance to flexure
- Greater save working load
- Excellent aesthetic finish

**4** Quicker and easier assembly.

- With simple manipulation based on the way in which the rods are cut, the tray can be easily moulded, even with complicated changes in direction.
- The cuts have to be performed with asymmetrical-cut wire cutters.
- The cut has to be performed as near to the intersection of the steel wires as possible, in order to obtain a clean cut and a good assembly.



**3**

| B(mm) | USEFUL AREA (cm <sup>2</sup> ) |     |      |
|-------|--------------------------------|-----|------|
|       | H35                            | H65 | H105 |
| 60    | -                              | 23  | -    |
| 100   | 27                             | 47  | -    |
| 150   | 42                             | 75  | -    |
| 200   | 58                             | 102 | 193  |
| 300   | 89                             | 157 | 297  |
| 400   | -                              | 212 | 401  |
| 500   | -                              | 267 | 505  |
| 600   | -                              | 322 | 609  |



## BASORFIL BFR H35

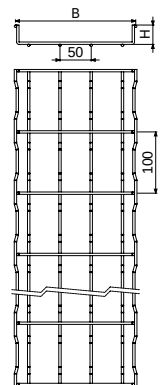


L = 3 m

| DESCRIPTION         | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | CINCADO |      | GC     |      |
|---------------------|----------|----------|---------|---------|---------------------|---------|------|--------|------|
|                     |          |          |         |         |                     | REF.    | kg/m | REF.   | kg/m |
| BASORFIL BFR 100X35 | 3        | 24       | 100     | 35      | 18                  | 2/3616  | 0,55 | 2/0286 | 0,63 |
| BASORFIL BFR 150X35 | 3        | 24       | 150     | 35      | 18                  | 2/3617  | 0,67 | 2/0287 | 0,73 |
| BASORFIL BFR 200X35 | 3        | 24       | 200     | 35      | 18                  | 2/3618  | 0,81 | 2/0288 | 0,89 |
| BASORFIL BFR 300X35 | 3        | 18       | 300     | 35      | 18                  | 2/3619  | 1,27 | 2/0289 | 1,39 |

To assemble the cable trays, it is necessary to use a bolt-staple set for each of the cable tray's side, with reference number 2/4364 in CINCADO and 2/4360 in GC.

For more technical information, please consult page 211.



## BASORFIL BFR H65



L = 3 m

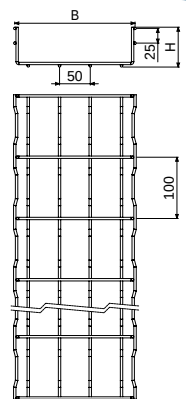


L = 3 m

| DESCRIPTION         | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | CINCADO |      | GC     |      |
|---------------------|----------|----------|---------|---------|---------------------|---------|------|--------|------|
|                     |          |          |         |         |                     | REF.    | kg/m | REF.   | kg/m |
| BASORFIL BFR 60X65  | 3        | 36       | 60      | 65      | 23                  | 2/3621  | 0,55 | 2/0290 | 0,60 |
| BASORFIL BFR 100X65 | 3        | 24       | 100     | 65      | 45                  | 2/3622  | 0,77 | 2/0291 | 0,83 |
| BASORFIL BFR 150X65 | 3        | 18       | 150     | 65      | 45                  | 2/3623  | 0,82 | 2/0292 | 0,89 |
| BASORFIL BFR 200X65 | 3        | 18       | 200     | 65      | 45                  | 2/3624  | 1,06 | 2/0293 | 1,15 |
| BASORFIL BFR 300X65 | 3        | 18       | 300     | 65      | 45                  | 2/3625  | 1,57 | 2/0294 | 1,69 |
| BASORFIL BFR 400X65 | 3        | 18       | 400     | 65      | 45                  | 2/4407  | 1,90 | 2/0295 | 2,05 |
| BASORFIL BFR 500X65 | 3        | 18       | 500     | 65      | 55                  | 2/4409  | 2,46 | 2/0296 | 2,65 |
| BASORFIL BFR 600X65 | 3        | 18       | 600     | 65      | 55                  | 2/3626  | 2,83 | 2/0297 | 3,05 |

To assemble cable trays with a width which is lower or equal to 200 mm, it's necessary to use a BF quick joint for each of the cable tray's side, with reference number 2/6217 in CINCADO and 2/4360 in GC. For wider trays an additional bolt-staple set shall be used as central union joint, reference 2/4364 in CINCADO and 2/4360 in GC.

For more technical information, please consult page 211.



## BASORFIL BFR H105

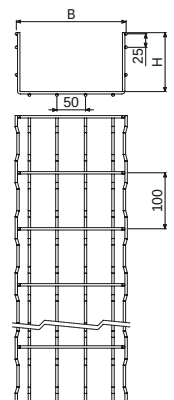


L = 3 m

| DESCRIPTION          | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | CINCADO |      | GC     |      |
|----------------------|----------|----------|---------|---------|---------------------|---------|------|--------|------|
|                      |          |          |         |         |                     | REF.    | kg/m | REF.   | kg/m |
| BASORFIL BFR 200X105 | 3        | 12       | 200     | 105     | 60                  | 2/4953  | 1,57 | 2/0298 | 1,69 |
| BASORFIL BFR 300X105 | 3        | 12       | 300     | 105     | 60                  | 2/4959  | 1,90 | 2/0299 | 2,05 |
| BASORFIL BFR 400X105 | 3        | 12       | 400     | 105     | 70                  | 2/4960  | 2,46 | 2/0300 | 2,65 |
| BASORFIL BFR 500X105 | 3        | 12       | 500     | 105     | 70                  | 2/4961  | 2,83 | 2/0301 | 3,05 |
| BASORFIL BFR 600X105 | 3        | 12       | 600     | 105     | 70                  | 2/6043  | 3,20 | 2/0302 | 3,45 |

To assemble cable trays with a width which is lower or equal to 200 mm, it's necessary to use a BF quick joint for each of the cable tray's side, with reference number 2/6217 in CINCADO and 2/6219 in GC. For wider cable trays, an additional bolt-staple set shall be used as a central union joint, reference number 2/4364 in CINCADO and 2/4360 in GC.

For more technical information, please consult page 211.



## BASORFIL BF H35

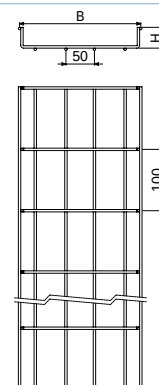


L = 3 m

| DESCRIPTION        | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | BICRO  |      |
|--------------------|----------|----------|---------|---------|---------------------|--------|------|
|                    |          |          |         |         |                     | REF.   | kg/m |
| BASORFIL BF 100X35 | 3        | 24       | 100     | 35      | 17                  | 2/3362 | 0,55 |
| BASORFIL BF 150X35 | 3        | 24       | 150     | 35      | 17                  | 2/3363 | 0,67 |
| BASORFIL BF 200X35 | 3        | 24       | 200     | 35      | 17                  | 2/4296 | 0,81 |
| BASORFIL BF 300X35 | 3        | 18       | 300     | 35      | 17                  | 2/3364 | 1,27 |

To assemble the cable trays, it is necessary to use a bolt-staple set for each of the cable tray's side, with reference number 2/4914.

For more technical information, please consult page 211.



## BASORFIL BF H65



L = 3 m

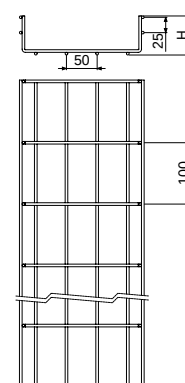


L = 3 m

| DESCRIPTION        | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | BICRO  |      |
|--------------------|----------|----------|---------|---------|---------------------|--------|------|
|                    |          |          |         |         |                     | REF.   | kg/m |
| BASORFIL BF 60X65  | 3        | 36       | 60      | 65      | 22                  | 2/4297 | 0,55 |
| BASORFIL BF 100X65 | 3        | 24       | 100     | 65      | 43                  | 2/3365 | 0,77 |
| BASORFIL BF 150X65 | 3        | 18       | 150     | 65      | 43                  | 2/3366 | 0,82 |
| BASORFIL BF 200X65 | 3        | 18       | 200     | 65      | 43                  | 2/3367 | 1,06 |
| BASORFIL BF 300X65 | 3        | 18       | 300     | 65      | 43                  | 2/3368 | 1,57 |
| BASORFIL BF 400X65 | 3        | 18       | 400     | 65      | 43                  | 2/3369 | 1,90 |
| BASORFIL BF 500X65 | 3        | 18       | 500     | 65      | 52                  | 2/3370 | 2,46 |
| BASORFIL BF 600X65 | 3        | 18       | 600     | 65      | 52                  | 2/3371 | 2,83 |

To assemble cable trays with a width which is lower or equal to 200 mm, it's necessary to use a BF quick joint for each side of the cable tray's side, reference number 2/6218. For wider cable trays, an additional bolt-staple set may be required as a central union joint reference number 2/4914.

For more technical information, please consult page 211.



## BASORFIL BF H105

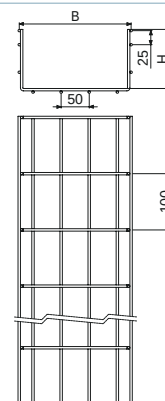


L = 3 m

| DESCRIPTION         | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | BICRO  |      |
|---------------------|----------|----------|---------|---------|---------------------|--------|------|
|                     |          |          |         |         |                     | REF.   | kg/m |
| BASORFIL BF 200X105 | 3        | 12       | 200     | 105     | 57                  | 2/3372 | 1,57 |
| BASORFIL BF 300X105 | 3        | 12       | 300     | 105     | 57                  | 2/5647 | 1,90 |
| BASORFIL BF 400X105 | 3        | 12       | 400     | 105     | 67                  | 2/3373 | 2,46 |
| BASORFIL BF 500X105 | 3        | 12       | 500     | 105     | 67                  | 2/5859 | 2,83 |
| BASORFIL BF 600X105 | 3        | 12       | 600     | 105     | 67                  | 2/3374 | 3,20 |

To assemble cable trays with a width which is lower or equal to 200 mm, it's necessary to use a BF quick joint for each side of the cable tray's side, reference number 2/6218. For wider cable trays, an additional bolt-staple set may be required as a central union joint reference number 2/4914.

For more technical information, please consult page 211.



## COVER ERE FOR METALLIC CABLE TRAY



L = 3 m

(400/500/600 - L = 2 m)

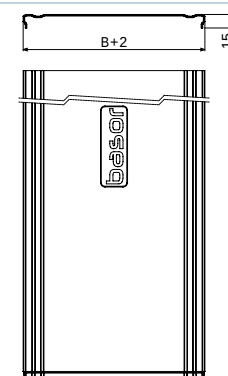


| DESCRIPTION                           | UVM<br>m | UVE<br>m | B<br>mm | GS     |      | GC     |      |
|---------------------------------------|----------|----------|---------|--------|------|--------|------|
|                                       |          |          |         | REF.   | kg/m | REF.   | kg/m |
| COVER ERE FOR METALLIC CABLE TRAY 100 | 3        | 24       | 100     | 2/1312 | 0,55 | 2/1321 | 0,82 |
| COVER ERE FOR METALLIC CABLE TRAY 150 | 3        | 24       | 150     | 2/1313 | 0,76 | 2/1322 | 1,14 |
| COVER ERE FOR METALLIC CABLE TRAY 200 | 3        | 24       | 200     | 2/1314 | 0,98 | 2/1323 | 1,46 |
| COVER ERE FOR METALLIC CABLE TRAY 300 | 3        | 18       | 300     | 2/1316 | 1,55 | 2/1325 | 2,11 |
| COVER ERE FOR METALLIC CABLE TRAY 400 | 2        | 12       | 400     | 2/1317 | 2,19 | 2/1326 | 2,75 |
| COVER ERE FOR METALLIC CABLE TRAY 500 | 2        | 8        | 500     | 2/1318 | 3,11 | 2/1327 | 3,85 |
| COVER ERE FOR METALLIC CABLE TRAY 600 | 2        | 8        | 600     | 2/1319 | 3,95 | 2/1328 | 4,58 |

ERE covers are used to cover all BASORFIL trays.

To mount the cover **no accessories are needed**. Fixed by pressure.

Available in GS and GC finishes only.



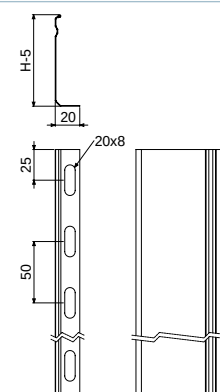
## DIVIDER PROFILE



L = 3 m

| DESCRIPTION | UVM<br>m | UVE<br>m | H<br>mm | GS     |      | GC     |      |
|-------------|----------|----------|---------|--------|------|--------|------|
|             |          |          |         | REF.   | kg/m | REF.   | kg/m |
| PS 35       | 3        | 30       | 35      | 2/3476 | 0,23 | 2/3479 | 0,29 |
| PS 60       | 3        | 30       | 60      | 2/2066 | 0,34 | 2/3480 | 0,43 |
| PS 80       | 3        | 30       | 80      | 2/3477 | 0,46 | 2/3481 | 0,63 |
| PS 100      | 3        | 30       | 100     | 2/3478 | 0,56 | 2/3482 | 0,76 |

One bolt is required to fix divider profile every 500mm. BASORFIL staple and B1 bolt set is required. B1 bolt set reference number 2/4356 in CINCADO or 2/6826 in GC (products packed in bags of 100). BASORFIL staple reference number 2/0337 in CINCADO or 2/0339 in GC.



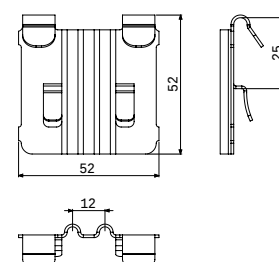
## QUICK JOINT



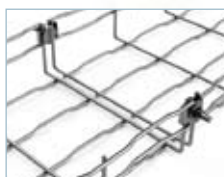
| DESCRIPTION          | UVM<br>ud | UVE<br>ud | CINCADO |       | BICRO  |       | GC     |       |
|----------------------|-----------|-----------|---------|-------|--------|-------|--------|-------|
|                      |           |           | REF.    | kg/ud | REF.   | kg/ud | REF.   | kg/ud |
| BASORFIL Quick Joint | 50        | 200       | 2/6217  | 0,03  | 2/6218 | 0,03  | 2/6219 | 0,03  |

Used as a fastener for BASORFIL trays, H60 and H105.

Simple and fast to assemble for a perfect fit tighten the tabs with pliers.



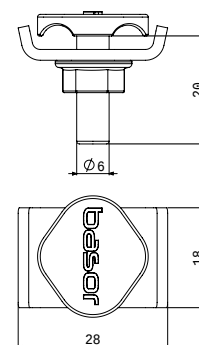
## BOLT-STAPLE SET



| DESCRIPTION        | UVM<br>ud | UVE<br>ud | CINCADO |       | BICRO  |       | GC     |       |
|--------------------|-----------|-----------|---------|-------|--------|-------|--------|-------|
|                    |           |           | REF.    | kg/ud | REF.   | kg/ud | REF.   | kg/ud |
| BF Bolt-Staple Set | 100       | 100       | 2/4364  | 0,03  | 2/4914 | 0,03  | 2/4360 | 0,03  |

It consists of a BF-bolt set and a BF-staple.

It can be used as a fastener in all BASORFIL tray series.



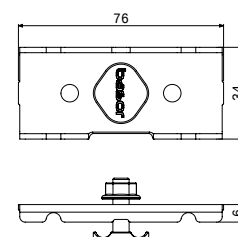
## LATERAL UNION SET ULA 65/105



| DESCRIPTION                  | UVM<br>ud | UVE<br>ud | CINCADO |       | BICRO  |       | GC     |       |
|------------------------------|-----------|-----------|---------|-------|--------|-------|--------|-------|
|                              |           |           | REF.    | kg/ud | REF.   | kg/ud | REF.   | kg/ud |
| Lateral Union Set ULA 65/105 | 100       | 100       | 2/4919  | 0,06  | 2/4917 | 0,06  | 2/4363 | 0,06  |

It consists of a bolt-BF set and a lateral union.

It can be used as a fastener with the BFH65 and BFH105 series. Of all the fasteners, this holds the tray the most rigid.

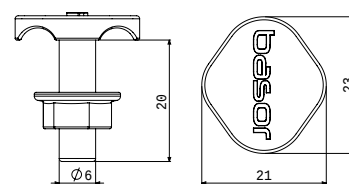


## BF BOLT-NUT SET



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | Pap<br>Nm | CINCADO |       | BICRO  |       |
|-----------------|-----------|-----------|-----------|---------|-------|--------|-------|
|                 |           |           |           | REF.    | kg/ud | REF.   | kg/ud |
| BF Bolt-Nut Set | 100       | 100       | 6         | 2/4362  | 0,02  | 2/4922 | 0,02  |

It consists of a BF-bolt and a serrated nut DIN6923. The bolt-BF is specifically designed for BASOR to form a perfect fit between the wire trays.



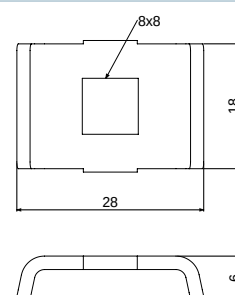
**P** | PATENTED  
9602521

## BF STAPLE



| DESCRIPTION | UVM<br>ud | UVE<br>ud | CINCADO |       | BICRO  |       | GC     |       |
|-------------|-----------|-----------|---------|-------|--------|-------|--------|-------|
|             |           |           | REF.    | kg/ud | REF.   | kg/ud | REF.   | kg/ud |
| BF Staple   | 100       | 1500      | 2/0337  | 0,01  | 2/0338 | 0,01  | 2/0339 | 0,01  |

Its used to mount the profile divider.



## ACCESSORIES

## SSC CENTRAL SUSPENSION

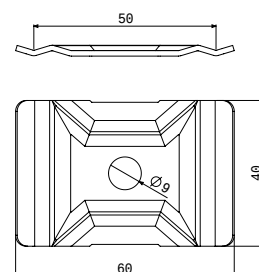


| DESCRIPTION | UVM<br>ud | UVE<br>ud | CINCADO |       | BICRO  |       | GC     |       |
|-------------|-----------|-----------|---------|-------|--------|-------|--------|-------|
|             |           |           | REF.    | kg/ud | REF.   | kg/ud | REF.   | kg/ud |
| SSC         | 10        | 400       | 2/2064  | 0,03  | 2/2065 | 0,03  | 2/0363 | 0,03  |

The SSC allows fix the tray to the ceiling with a electrogalvanised M8 threaded rod reference number 2/3397.

At each point of attachment takes two SSC (upper and lower), a rod and two nuts M8 DIN6923, reference 0/0338 in CINCADO and 0/0927 in GC (both products packed in bags of 100).

Also can be used as a fastener between wire mesh and any support with a B1 bolt set reference 2/4356 in CINCADO or 2/6826 in GC.

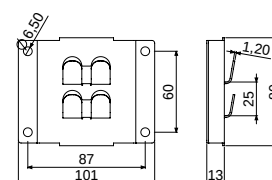


## SL



| DESCRIPTION | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|-------------|-----------|-----------|--------|-------|--------|-------|
|             |           |           | REF.   | kg/ud | REF.   | kg/ud |
| SL          | 10        | 100       | 2/0355 | 0,08  | 2/0365 | 0,13  |

Allows attachment BASORFIL trays to wall . Used with models 60x65 and 100x65.

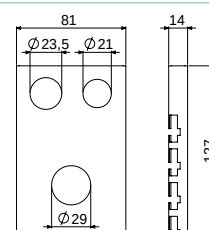


## STB



| DESCRIPTION | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|-------------|-----------|-----------|--------|-------|--------|-------|
|             |           |           | REF.   | kg/ud | REF.   | kg/ud |
| STB         | 1         | 1         | 2/0356 | 0,14  | 2/0366 | 0,14  |

Allows the fixation of conduits to the cables outlet. You can see section cable management systems insulation conduit.

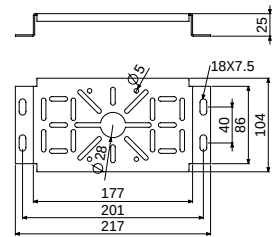


## UNIVERSAL SUPPORT BOX



| DESCRIPTION           | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|-----------------------|-----------|-----------|--------|-------|--------|-------|
|                       |           |           | REF.   | kg/ud | REF.   | kg/ud |
| Universal Support Box | 1         | 1         | 2/0358 | 0,28  | 2/0368 | 0,28  |

Designed to allow the fixing of boxes to BASORFIL trays series.

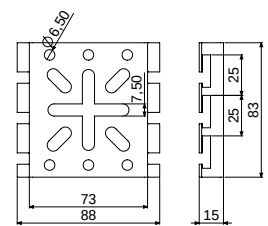


## MINI UNIVERSAL SUPPORT BOX



| DESCRIPTION                | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|----------------------------|-----------|-----------|--------|-------|--------|-------|
|                            |           |           | REF.   | kg/ud | REF.   | kg/ud |
| Mini Universal Support Box | 1         | 1         | 2/0359 | 0,08  | 2/0369 | 0,12  |

Designed to allow the fixing of boxes to BASORFIL trays series.



## SIMPLE SL

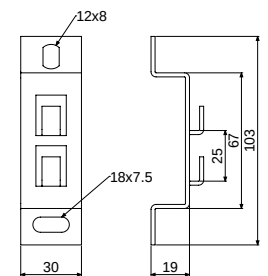


| DESCRIPTION | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|-------------|-----------|-----------|--------|-------|--------|-------|
|             |           |           | REF.   | kg/ud | REF.   | kg/ud |
| Simple SL   | 10        | 100       | 2/0360 | 0,05  | 2/0370 | 0,05  |

This piece allows to fix the BASORFIL trays to wall or ceiling, in this case with threaded rod.

For wall mounting is used with a 60x65 and 100x65 models only.

When mounted with threaded rod is necessary to take both sides of the tray. In this case the maximum width of tray is 200, being valid the heights 65 and 105 only.

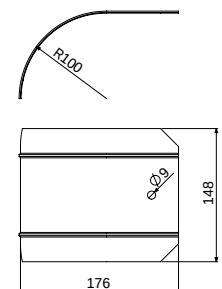


## DROP-OUT PLATE



| DESCRIPTION           | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|-----------------------|-----------|-----------|--------|-------|--------|-------|
|                       |           |           | REF.   | kg/ud | REF.   | kg/ud |
| BF/BFR Drop-Out Plate | 1         | 1         | 2/6451 | 0,18  | 2/6452 | 0,20  |

To assemble drop-out plate with cable trays it's necessary to use a SSC, a bolt M8x25 DIN933 CINCADO (reference 0/0310) and a serrated nut DIN6923 CINCADO (reference 0/0338).



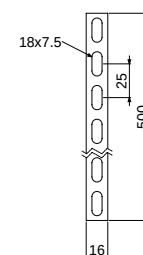
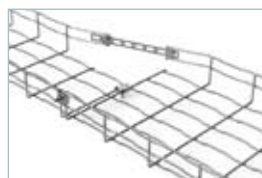


## MULTI UNION JOINT



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | GS     |       | GC   |       |
|-------------------|-----------|-----------|--------|-------|------|-------|
|                   |           |           | REF.   | kg/ud | REF. | kg/ud |
| Multi Union Joint | 1         | 1         | 2/0357 | 0,05  | -    | 0,05  |

Supplement used in the workplace for construction of accessories (vertical inside/outside, reduction, etc.)



## ASYMMETRIC CUTTING PLIERS



| DESCRIPTION    | UVM<br>ud | UVE<br>ud |
|----------------|-----------|-----------|
| Cutting Pliers | 1         | 1         |

## ZINC SPRAY PAINT



| DESCRIPTION          | UVM<br>ud | UVE<br>ud |
|----------------------|-----------|-----------|
| 400 Zinc Spray Paint | 1         | 1         |

Contains 90% Zinc in dry film.

For optimum protection against corrosion, the cuts should be coated with zinc paint.

## BASORFIL MOUNTS

## HORIZONTAL BEND

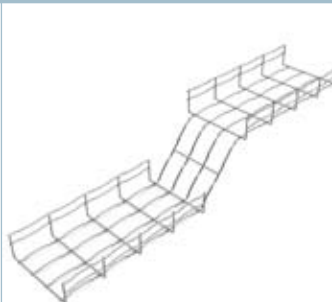


## VERTICAL INSIDE



To reinforce the accessorie can be used pieces of multijunction with BF bolt-nut sets.

## LEVEL CHANGE

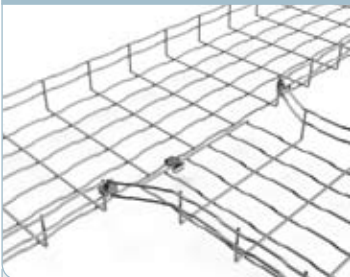
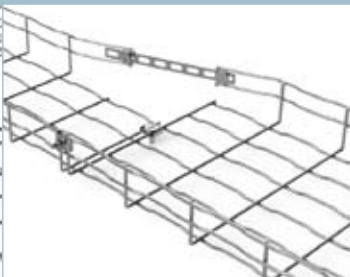
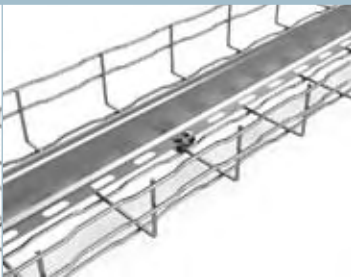


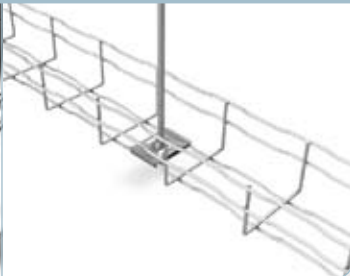
To reinforce the accessorie can be used pieces of multijunction with BF bolt-nut sets.

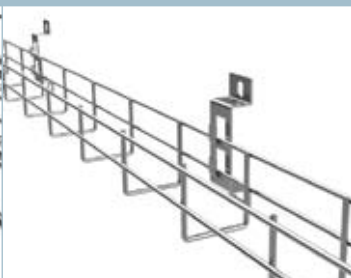
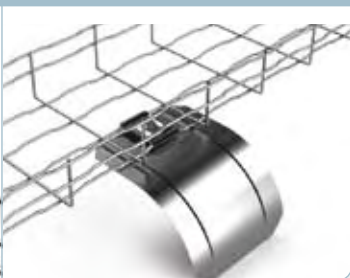
## VERTICAL OUTSIDE+INSIDE

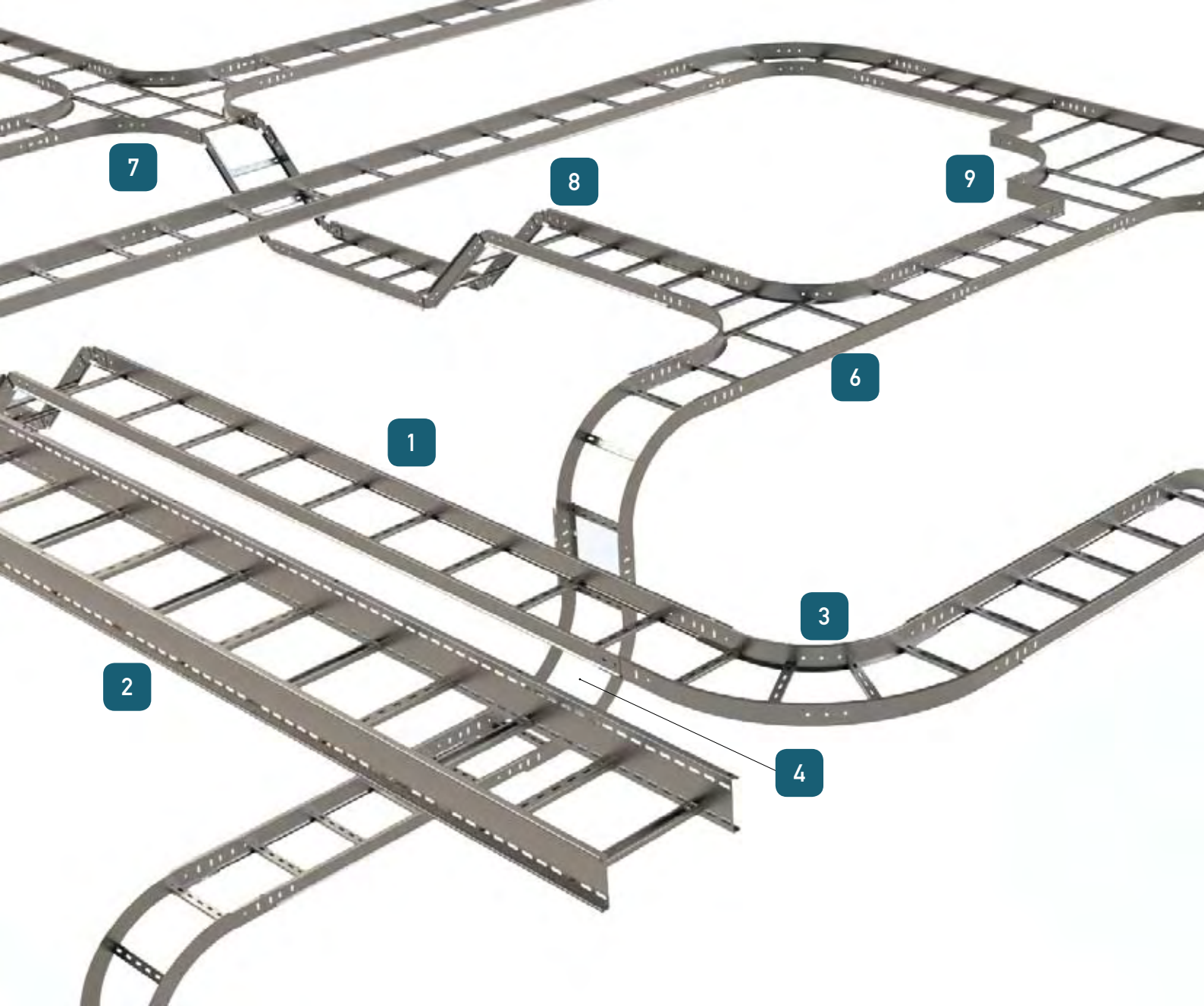


To reinforce the accessorie can be used pieces of multijunction with BF bolt-nut sets.

| T INTERSECTION                                                                    | REDUCTION                                                                         | BFR+PS+B1+BF STAPLE                                                                | BFR+SRB                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
|                                                                                   |                                                                                   | B1 bolt set - page 18                                                              | <b>WITHOUT BOLTS</b><br>SRB support - page 81                                       |

| BFR+SCR+ BF BOLT-NUT SET                                                           | BFR+SL+VR8                                                                         | BFR+SVO+VR8+SSC+B1                                                                  | SSC CENTRAL SUSPENSION                                                               |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
| SCB support - page 81                                                              | Threaded rod VR8 - page 166<br>M8 Nut DIN6923 - page 166                           | SVO - page 85<br>Threaded rod VR8 and nut- page 166<br>B1 set bolt - page 18        | Threaded rod VR8 and nut- page 166                                                   |

| SL                                                                                  | MINI UNIVERSAL SUPPORT BOX                                                          | SIMPLE SL                                                                            | DROP-OUT PLATE                                                                        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
|                                                                                     |                                                                                     |                                                                                      | M8X20 Bolt and nut - page 166                                                         |



- 1. FE Cable ladder
- 2. BSL Cable ladder
- 3. CPFE Horizontal bend
- 4. CCFE Vertical inside
- 5. CXFE Vertical outside
- 6. TEFE T Intersection
- 7. CRFE Cross intersection
- 8. FE Adjustable joint
- 9. REFE Reduction



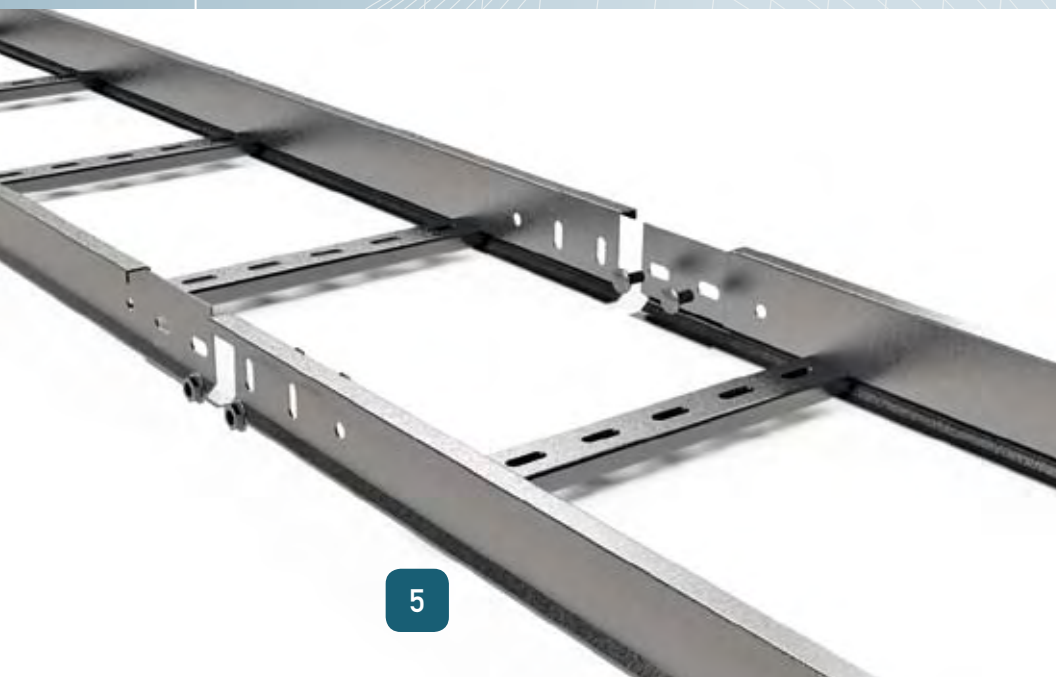


## CABLE LADDER

|                                     |         |
|-------------------------------------|---------|
| FE H60 .....                        | Page 62 |
| FE H60 Accessories .....            | Page 63 |
| FE H60 Assemblies .....             | Page 65 |
| FE H75/100/120/150 .....            | Page 66 |
| FE H75/100/120/150 Accessories..... | Page 68 |
| FE H75/100/120/150 Assemblies.....  | Page 73 |
| BSL .....                           | Page 74 |
| BSL Accessories .....               | Page 75 |
| BSL Assemblies .....                | Page 77 |

- BASORTRAV is a range of cable ladders specifically designed to be used in electrical connections with thick or high power cables which require a higher degree of ventilation.
- They are assembled on big electrical systems such as nuclear plants, tunnels or airports. These cable trays have the advantage of having a great resistance to flexure.

# BASORTRAV



1 Security edge to avoid accidents.

2 Patented self-assembly coupler system

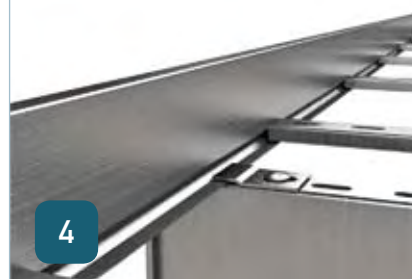
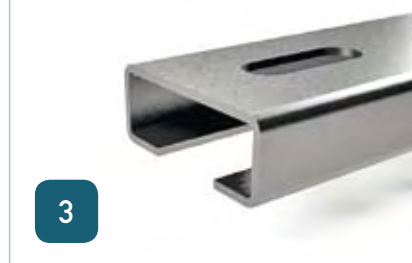
- No couplers needed
- Easier to install
- Less time required for installation
- Union with higher degree of rigidity

3 Rungs with a curved finish to avoid damaging of the cables. There are different cable fixation standard systems for this kind of profile.

4 Inside flange which allows fixation of the cable tray to the support from the inside.

5 Profile which has been designed to offer the best relation between flexure/weight.

6 Self-assembly accessories.



| B (mm) | USEFUL AREA (cm <sup>2</sup> ) |
|--------|--------------------------------|
|        | H60                            |
| 100    | 45                             |
| 150    | 67                             |
| 200    | 89                             |
| 300    | 134                            |
| 400    | 178                            |
| 500    | 223                            |
| 600    | 267                            |



## FE H60 CABLE LADDER



L = 3 m

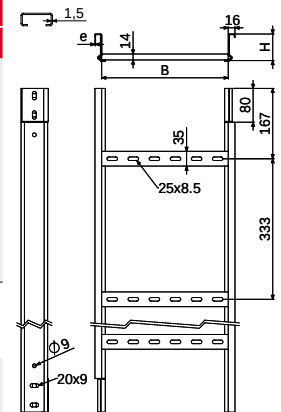
| DESCRIPTION             | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2,5m<br>CTA (kg/m) | GC     |      |
|-------------------------|----------|----------|---------|---------|---------|----------------------|--------|------|
|                         |          |          |         |         |         |                      | REF.   | kg/m |
| BASORTRAV FE 100x60x1,5 | 3        | 6        | 100     | 63      | 1,5     | 70                   | 2/0749 | 2,70 |
| BASORTRAV FE 150x60x1,5 | 3        | 6        | 150     | 63      | 1,5     | 70                   | 2/0750 | 2,84 |
| BASORTRAV FE 200x60x1,5 | 3        | 6        | 200     | 63      | 1,5     | 70                   | 2/0751 | 2,97 |
| BASORTRAV FE 300x60x1,5 | 3        | 6        | 300     | 63      | 1,5     | 70                   | 2/0752 | 3,24 |
| BASORTRAV FE 400x60x1,5 | 3        | 6        | 400     | 63      | 1,5     | 70                   | 2/0753 | 3,50 |
| BASORTRAV FE 500x60x1,5 | 3        | 6        | 500     | 63      | 1,5     | 70                   | 2/0754 | 3,77 |
| BASORTRAV FE 600x60x1,5 | 3        | 6        | 600     | 63      | 1,5     | 70                   | 2/0755 | 4,03 |

For the assembly, **no couplers are needed**. Each stretch requires 4 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, couplers with reference number 2/0854 in GS are needed.

For more technical information, please consult page 211.

Other lengths may be manufactured under order.

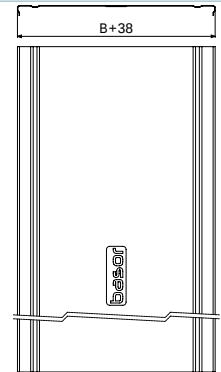


## FE COVER



L = 3 m  
400/500/600 - L=2 m

| DESCRIPTION  | UVM<br>m | UVE<br>m | B<br>mm | e<br>mm | GC     |      |
|--------------|----------|----------|---------|---------|--------|------|
|              |          |          |         |         | REF.   | kg/m |
| FE COVER 100 | 3        | 3        | 100     | 0,7     | 2/4937 | 1,10 |
| FE COVER 150 | 3        | 3        | 150     | 0,7     | 2/4472 | 1,62 |
| FE COVER 200 | 3        | 3        | 200     | 0,7     | 2/4473 | 1,75 |
| FE COVER 300 | 3        | 3        | 300     | 0,7     | 2/3579 | 2,71 |
| FE COVER 400 | 2        | 2        | 400     | 0,7     | 2/4430 | 3,44 |
| FE COVER 500 | 2        | 2        | 500     | 0,8     | 2/4509 | 4,17 |
| FE COVER 600 | 2        | 2        | 600     | 0,8     | 2/4494 | 6,01 |

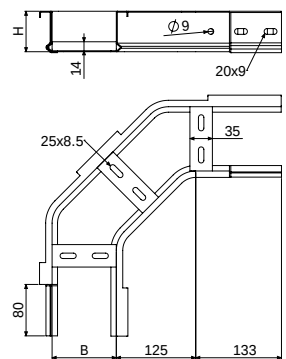


## FE H60 HORIZONTAL BEND



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|-------------|-----------|-----------|---------|---------|---------|--------|-------|
|             |           |           |         |         |         | REF.   | kg/ud |
| CPFE 100x60 | 1         | 2         | 100     | 63      | 1,5     | 2/0770 | 1,53  |
| CPFE 150x60 | 1         | 2         | 150     | 63      | 1,5     | 2/0771 | 1,77  |
| CPFE 200x60 | 1         | 2         | 200     | 63      | 1,5     | 2/0772 | 2,01  |
| CPFE 300x60 | 1         | 2         | 300     | 63      | 1,5     | 2/0773 | 2,48  |
| CPFE 400x60 | 1         | 2         | 400     | 63      | 1,5     | 2/0774 | 2,85  |
| CPFE 500x60 | 1         | 2         | 500     | 63      | 1,5     | 2/0775 | 3,42  |
| CPFE 600x60 | 1         | 2         | 600     | 63      | 1,5     | 2/0776 | 3,89  |

For the assembly, **no couplers are needed**. Each bend requires 4 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

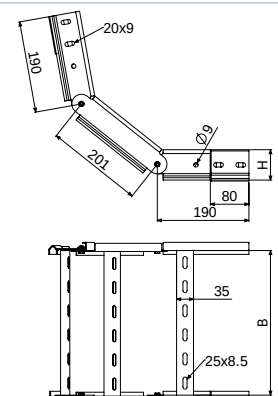


## CCCX FE H60 ARTICULATED VERTICAL BEND



| DESCRIPTION      | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|------------------|-----------|-----------|---------|---------|---------|--------|-------|
|                  |           |           |         |         |         | REF.   | kg/ud |
| CCFE/CXFE 100x60 | 1         | 2         | 100     | 63      | 1,5     | 2/5222 | 1,53  |
| CCFE/CXFE 150x60 | 1         | 2         | 150     | 63      | 1,5     | 2/5223 | 1,66  |
| CCFE/CXFE 200x60 | 1         | 2         | 200     | 63      | 1,5     | 2/5224 | 1,80  |
| CCFE/CXFE 300x60 | 1         | 2         | 300     | 63      | 1,5     | 2/5225 | 2,08  |
| CCFE/CXFE 400x60 | 1         | 2         | 400     | 63      | 1,5     | 2/5226 | 2,35  |
| CCFE/CXFE 500x60 | 1         | 2         | 500     | 63      | 1,5     | 2/5227 | 2,63  |
| CCFE/CXFE 600x60 | 1         | 2         | 600     | 63      | 1,5     | 2/5228 | 2,90  |

For the assembly, **no couplers are needed**. Each bend requires 4 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

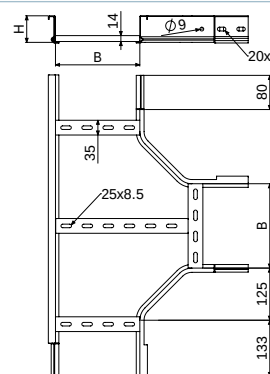


## T DERIVATION TEFE H60



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|-------------|-----------|-----------|---------|---------|---------|--------|-------|
|             |           |           |         |         |         | REF.   | kg/ud |
| TEFE 100x60 | 1         | 2         | 100     | 63      | 1,5     | 2/0812 | 2,19  |
| TEFE 150x60 | 1         | 2         | 150     | 63      | 1,5     | 2/0813 | 2,43  |
| TEFE 200x60 | 1         | 2         | 200     | 63      | 1,5     | 2/0814 | 2,66  |
| TEFE 300x60 | 1         | 2         | 300     | 63      | 1,5     | 2/0815 | 3,12  |
| TEFE 400x60 | 1         | 2         | 400     | 63      | 1,5     | 2/0816 | 4,03  |
| TEFE 500x60 | 1         | 2         | 500     | 63      | 1,5     | 2/0817 | 4,59  |
| TEFE 600x60 | 1         | 2         | 600     | 63      | 1,5     | 2/0818 | 5,76  |

For the assembly, **no couplers are needed**. Each T derivation requires 8 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

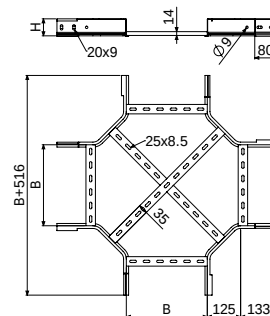


## CROSS DERIVATION CRFE H60



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|-------------|-----------|-----------|---------|---------|---------|--------|-------|
|             |           |           |         |         |         | REF.   | kg/ud |
| CRFE 100x60 | 1         | 2         | 100     | 63      | 1,5     | 2/0833 | 2,88  |
| CRFE 150x60 | 1         | 2         | 150     | 63      | 1,5     | 2/0834 | 3,18  |
| CRFE 200x60 | 1         | 2         | 200     | 63      | 1,5     | 2/0835 | 3,48  |
| CRFE 300x60 | 1         | 2         | 300     | 63      | 1,5     | 2/0836 | 4,07  |
| CRFE 400x60 | 1         | 2         | 400     | 63      | 1,5     | 2/0837 | 4,66  |
| CRFE 500x60 | 1         | 2         | 500     | 63      | 1,5     | 2/0838 | 5,25  |
| CRFE 600x60 | 1         | 2         | 600     | 63      | 1,5     | 2/0839 | 6,50  |

For the assembly, **no couplers are needed**. Each cross derivation requires 12 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

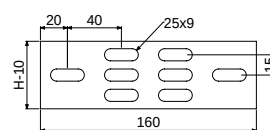


## H60 JOINT PLATE



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|----------------|-----------|-----------|---------|---------|--------|-------|
|                |           |           |         |         | REF.   | kg/ud |
| J/UNIÓN FE H60 | 10        | 125       | 60      | 2       | 2/0854 | 0,08  |

4 bolts are needed to mount each joint plate, with reference number 2/6792 in GC (products packed in bags containing 100 units).

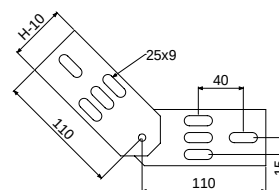


## ARTICULATED UNION JOINT



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|-------------------|-----------|-----------|---------|---------|--------|-------|
|                   |           |           |         |         | REF.   | kg/ud |
| J/UNIÓN UA FE H60 | 10        | 125       | 60      | 2       | 2/0857 | 0,14  |

4 bolts are needed to mount each union joint, with reference number 2/6792 in GC (products packed in bags containing 100 units).

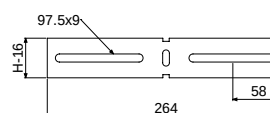


## ANGLE JOINT



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|-------------------|-----------|-----------|---------|---------|--------|-------|
|                   |           |           |         |         | REF.   | kg/ud |
| J/UNIÓN UB FE H60 | 10        | 125       | 60      | 2       | 2/0860 | 0,13  |

4 bolts are needed to mount each union joint, with reference number 2/6792 in GC (products packed in bags containing 100 units).

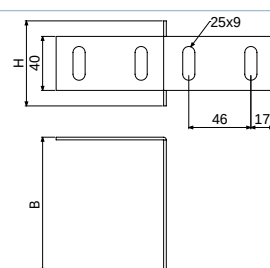


## REDUCTION FE H60



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|-------------|-----------|-----------|---------|---------|---------|--------|-------|
|             |           |           |         |         |         | REF.   | kg/ud |
| REFE 50x60  | 1         | 1         | 50      | 63      | 2       | 2/6799 | 0,16  |
| REFE 100x60 | 1         | 1         | 100     | 63      | 2       | 2/6800 | 0,20  |
| REFE 150x60 | 1         | 1         | 150     | 63      | 2       | 2/6801 | 0,25  |
| REFE 200x60 | 1         | 1         | 200     | 63      | 2       | 2/6802 | 0,30  |

For the assembly, **no couplers are needed**. Each reduction requires 4 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).



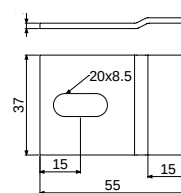
## FE CLAMP



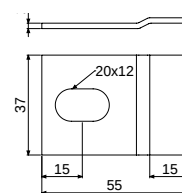
| DESCRIPTION   | UVM<br>ud | UVE<br>ud | e<br>mm | GC     |       |
|---------------|-----------|-----------|---------|--------|-------|
|               |           |           |         | REF.   | kg/ud |
| CLAMP M-6/8   | 100       | 500       | 2       | 2/0863 | 0,029 |
| CLAMP M-10/12 | 100       | 500       | 2       | 2/0864 | 0,028 |

Used to fix the trays to the supports.

2 clamps are needed for each support



M-6/8



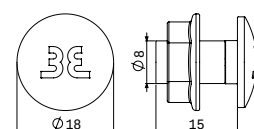
M-10/12

## B2 BOLT SET M8x15



| DESCRIPTION                | UVM<br>ud | UVE<br>ud | Pap<br>Nm | GC     |       |
|----------------------------|-----------|-----------|-----------|--------|-------|
|                            |           |           |           | REF.   | kg/ud |
| PACK 100 B2 BOLT SET M8x15 | 1         | 1         | 15        | 2/6792 | 1,00  |

The B2 bolt set consists of a M8x15 DIN603 mushroom head square neck bolt and a M8 DIN6923 flange nut with serration for a perfect fit. Used to mount all accessories BASORTRAV series.



## FE H60 MOUNTS

## FE SELF-ASSEMBLY



## CCCX FE H60



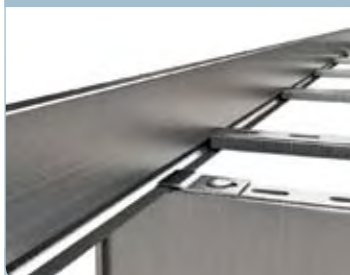
## CPFE H60



## REFE H60 + FE H60



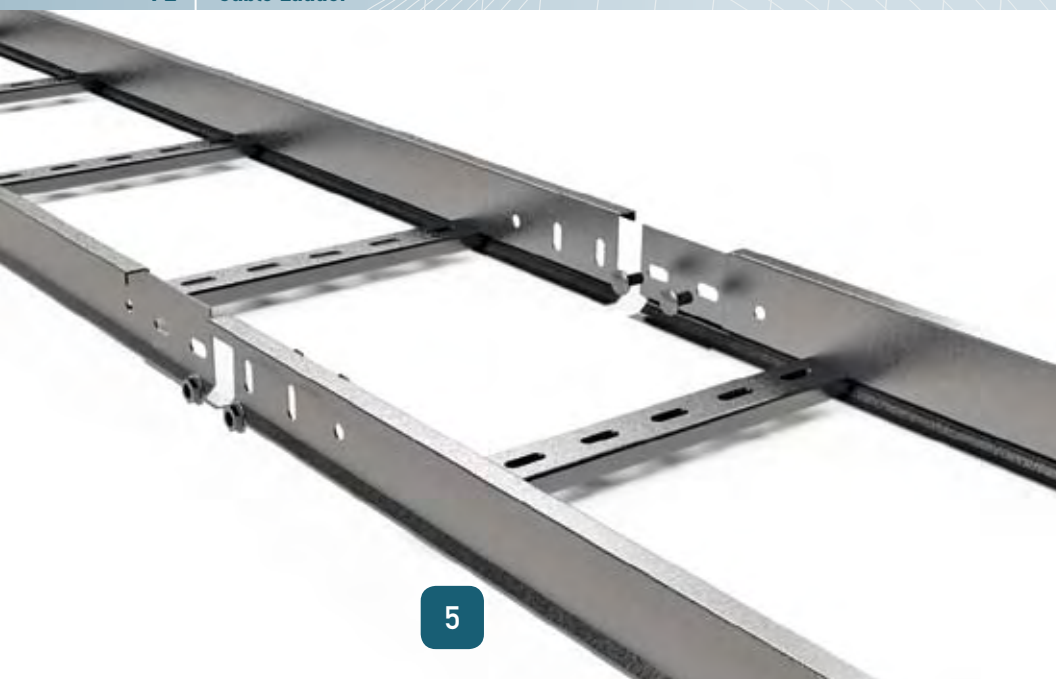
## SHR+FE CLAMP M8 + FE H60



SHR pág. 83.

## UA FE H60





1 Security edge to avoid accidents.

2 Patented self-assembly coupler system

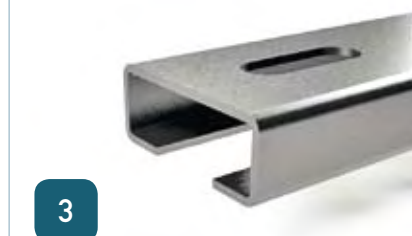
- No couplers needed
- Easier to install
- Less time required for installation
- Union with higher degree of rigidity

3 Rungs with a curved finish to avoid damaging the cables. There are different cable fixation standard systems for this kind of profile.

4 Inside flange which allows fixation of the cable tray to the support from the inside.

5 Profile which has been designed to offer the best relation between flexure/weight.

6 Circular accessories which allow a radius of curvature of the cables of 330 mm.



| B (mm) | USEFUL AREA (cm <sup>2</sup> ) |      |      |      |
|--------|--------------------------------|------|------|------|
|        | H75                            | H100 | H120 | H150 |
| 100    | 59                             | 84   | -    | -    |
| 150    | 89                             | 126  | 156  | 201  |
| 200    | 118                            | 168  | 208  | 268  |
| 300    | 177                            | 252  | 312  | 402  |
| 400    | 236                            | 336  | 416  | 536  |
| 500    | 295                            | 420  | 520  | 670  |
| 600    | 354                            | 504  | 624  | 804  |

## FE H75 CABLE LADDER



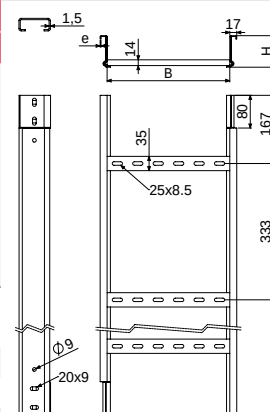
| DESCRIPTION           | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2,5m<br>CTA (kg/m) | GC     |      |
|-----------------------|----------|----------|---------|---------|---------|----------------------|--------|------|
|                       |          |          |         |         |         |                      | REF.   | kg/m |
| BASORTRAV FE 100x75x2 | 3        | 6        | 100     | 75      | 2       | 115                  | 2/0865 | 3,82 |
| BASORTRAV FE 150x75x2 | 3        | 6        | 150     | 75      | 2       | 115                  | 2/0866 | 3,96 |
| BASORTRAV FE 200x75x2 | 3        | 6        | 200     | 75      | 2       | 115                  | 2/0867 | 4,09 |
| BASORTRAV FE 300x75x2 | 3        | 6        | 300     | 75      | 2       | 115                  | 2/0868 | 4,35 |
| BASORTRAV FE 400x75x2 | 3        | 6        | 400     | 75      | 2       | 115                  | 2/0869 | 4,62 |
| BASORTRAV FE 500x75x2 | 3        | 6        | 500     | 75      | 2       | 115                  | 2/0870 | 4,88 |
| BASORTRAV FE 600x75x2 | 3        | 6        | 600     | 75      | 2       | 115                  | 2/0871 | 5,15 |

For the assembly, **no couplers are needed**. Each stretch requires 4 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, FE couplers of the corresponding height in GC are needed.

For more technical information, please consult page 211.

Other lengths may be manufactured under order.



## FE H100 CABLE LADDER



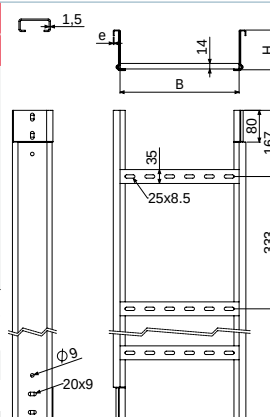
| DESCRIPTION            | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2,5m<br>CTA (kg/m) | GC     |      |
|------------------------|----------|----------|---------|---------|---------|----------------------|--------|------|
|                        |          |          |         |         |         |                      | REF.   | kg/m |
| BASORTRAV FE 100x100x2 | 3        | 6        | 100     | 100     | 2       | 210                  | 2/0872 | 5,03 |
| BASORTRAV FE 150x100x2 | 3        | 6        | 150     | 100     | 2       | 210                  | 2/0873 | 5,16 |
| BASORTRAV FE 200x100x2 | 3        | 6        | 200     | 100     | 2       | 210                  | 2/0874 | 5,29 |
| BASORTRAV FE 300x100x2 | 3        | 6        | 300     | 100     | 2       | 210                  | 2/0875 | 5,56 |
| BASORTRAV FE 400x100x2 | 3        | 6        | 400     | 100     | 2       | 210                  | 2/0876 | 5,82 |
| BASORTRAV FE 500x100x2 | 3        | 6        | 500     | 100     | 2       | 210                  | 2/0877 | 6,08 |
| BASORTRAV FE 600x100x2 | 3        | 6        | 600     | 100     | 2       | 185                  | 2/0878 | 6,35 |

For the assembly, **no couplers are needed**. Each stretch requires 4 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, FE couplers of the corresponding height in GC are needed.

For more technical information, please consult page 211.

Other lengths may be manufactured under order.



## FE H120 CABLE LADDER



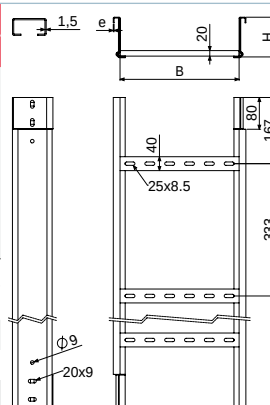
| DESCRIPTION            | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2,5m<br>CTA (kg/m) | GC     |      |
|------------------------|----------|----------|---------|---------|---------|----------------------|--------|------|
|                        |          |          |         |         |         |                      | REF.   | kg/m |
| BASORTRAV FE 150x120x2 | 3        | 6        | 150     | 120     | 2       | 280                  | 2/6854 | 5,94 |
| BASORTRAV FE 200x120x2 | 3        | 6        | 200     | 120     | 2       | 280                  | 2/6855 | 6,11 |
| BASORTRAV FE 300x120x2 | 3        | 6        | 300     | 120     | 2       | 280                  | 2/6856 | 6,44 |
| BASORTRAV FE 400x120x2 | 3        | 6        | 400     | 120     | 2       | 280                  | 2/6857 | 6,78 |
| BASORTRAV FE 500x120x2 | 3        | 6        | 500     | 120     | 2       | 280                  | 2/6858 | 7,12 |
| BASORTRAV FE 600x120x2 | 3        | 6        | 600     | 120     | 2       | 280                  | 2/6859 | 7,46 |

For the assembly, **no couplers are needed**. Each stretch requires 4 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, FE couplers of the corresponding height in GC are needed.

For more technical information, please consult page 211.

Other lengths may be manufactured under order.



## FE H150 CABLE LADDER



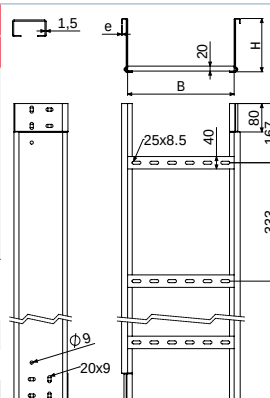
| DESCRIPTION            | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=2,5m<br>CTA (kg/m) | GC     |      |
|------------------------|----------|----------|---------|---------|---------|----------------------|--------|------|
|                        |          |          |         |         |         |                      | REF.   | kg/m |
| BASORTRAV FE 150x150x2 | 3        | 6        | 150     | 150     | 2       | 405                  | 2/6860 | 6,91 |
| BASORTRAV FE 200x150x2 | 3        | 6        | 200     | 150     | 2       | 405                  | 2/6861 | 7,07 |
| BASORTRAV FE 300x150x2 | 3        | 6        | 300     | 150     | 2       | 405                  | 2/6862 | 7,40 |
| BASORTRAV FE 400x150x2 | 3        | 6        | 400     | 150     | 2       | 405                  | 2/6863 | 7,72 |
| BASORTRAV FE 500x150x2 | 3        | 6        | 500     | 150     | 2       | 380                  | 2/6864 | 8,05 |
| BASORTRAV FE 600x150x2 | 3        | 6        | 600     | 150     | 2       | 315                  | 2/6865 | 8,37 |

For the assembly, **no couplers are needed**. Each stretch requires 8 bolts with reference number 2/6792 in GC (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, FE couplers of the corresponding height in GC are needed.

For more technical information, please consult page 211.

Other lengths may be manufactured under order.





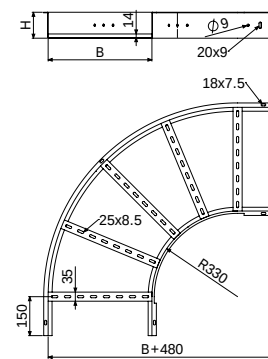
## HORIZONTAL BEND FE



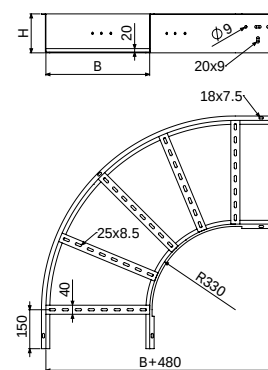
| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|--------------|-----------|-----------|---------|---------|---------|--------|-------|
|              |           |           |         |         |         | REF.   | kg/ud |
| CPFE 100x75  | 1         | 2         | 100     | 75      | 2       | 2/0887 | 3,46  |
| CPFE 150x75  | 1         | 2         | 150     | 75      | 2       | 2/0888 | 3,77  |
| CPFE 200x75  | 1         | 2         | 200     | 75      | 2       | 2/0889 | 4,07  |
| CPFE 300x75  | 1         | 2         | 300     | 75      | 2       | 2/0890 | 4,69  |
| CPFE 400x75  | 1         | 2         | 400     | 75      | 2       | 2/0891 | 5,63  |
| CPFE 500x75  | 1         | 2         | 500     | 75      | 2       | 2/0892 | 6,33  |
| CPFE 600x75  | 1         | 2         | 600     | 75      | 2       | 2/0893 | 7,53  |
| CPFE 100x100 | 1         | 2         | 100     | 100     | 2       | 2/0895 | 4,23  |
| CPFE 150x100 | 1         | 2         | 150     | 100     | 2       | 2/0896 | 4,57  |
| CPFE 200x100 | 1         | 2         | 200     | 100     | 2       | 2/0897 | 4,91  |
| CPFE 300x100 | 1         | 2         | 300     | 100     | 2       | 2/0898 | 5,59  |
| CPFE 400x100 | 1         | 2         | 400     | 100     | 2       | 2/0899 | 6,60  |
| CPFE 500x100 | 1         | 2         | 500     | 100     | 2       | 2/0900 | 7,36  |
| CPFE 600x100 | 1         | 2         | 600     | 100     | 2       | 2/0901 | 8,64  |
| CPFE 150x120 | 1         | 2         | 150     | 120     | 2       | 2/6880 | 5,38  |
| CPFE 200x120 | 1         | 2         | 200     | 120     | 2       | 2/6881 | 5,80  |
| CPFE 300x120 | 1         | 2         | 300     | 120     | 2       | 2/6882 | 6,64  |
| CPFE 400x120 | 1         | 2         | 400     | 120     | 2       | 2/6883 | 7,94  |
| CPFE 500x120 | 1         | 2         | 500     | 120     | 2       | 2/6884 | 8,90  |
| CPFE 600x120 | 1         | 2         | 600     | 120     | 2       | 2/6885 | 10,53 |
| CPFE 150x150 | 1         | 2         | 150     | 150     | 2       | 2/6886 | 6,33  |
| CPFE 200x150 | 1         | 2         | 200     | 150     | 2       | 2/6887 | 6,80  |
| CPFE 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6888 | 7,72  |
| CPFE 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6889 | 9,10  |
| CPFE 500x150 | 1         | 2         | 500     | 150     | 2       | 2/6890 | 10,14 |
| CPFE 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6891 | 11,85 |

Two FE couplers of the corresponding height are needed to mount

Each bend requires 8 bolts (16 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



CPFE H75/100/120  
RUNG H120: 40x20



CPFE H150

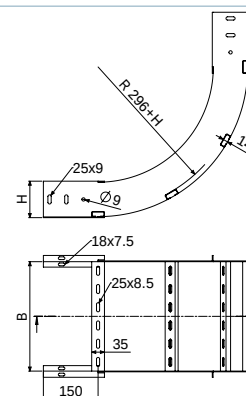
## VERTICAL INSIDE FE



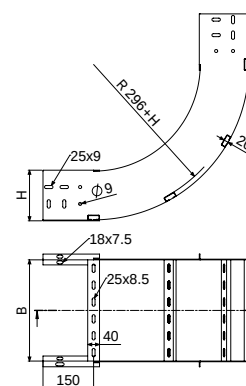
| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|--------------|-----------|-----------|---------|---------|---------|--------|-------|
|              |           |           |         |         |         | REF.   | kg/ud |
| CCFE 100x75  | 1         | 2         | 100     | 75      | 2       | 2/4794 | 2,71  |
| CCFE 150x75  | 1         | 2         | 150     | 75      | 2       | 2/4596 | 2,88  |
| CCFE 200x75  | 1         | 2         | 200     | 75      | 2       | 2/4548 | 3,07  |
| CCFE 300x75  | 1         | 2         | 300     | 75      | 2       | 2/4549 | 3,43  |
| CCFE 400x75  | 1         | 2         | 400     | 75      | 2       | 2/0802 | 3,78  |
| CCFE 500x75  | 1         | 2         | 500     | 75      | 2       | 2/0803 | 4,14  |
| CCFE 600x75  | 1         | 2         | 600     | 75      | 2       | 2/0804 | 4,50  |
| CCFE 100x100 | 1         | 2         | 100     | 100     | 2       | 2/0805 | 3,50  |
| CCFE 150x100 | 1         | 2         | 150     | 100     | 2       | 2/0806 | 3,69  |
| CCFE 200x100 | 1         | 2         | 200     | 100     | 2       | 2/0807 | 3,86  |
| CCFE 300x100 | 1         | 2         | 300     | 100     | 2       | 2/0808 | 4,22  |
| CCFE 400x100 | 1         | 2         | 400     | 100     | 2       | 2/0809 | 4,59  |
| CCFE 500x100 | 1         | 2         | 500     | 100     | 2       | 2/0810 | 4,94  |
| CCFE 600x100 | 1         | 2         | 600     | 100     | 2       | 2/0811 | 5,30  |
| CCFE 150x120 | 1         | 2         | 150     | 120     | 2       | 2/6892 | 4,51  |
| CCFE 200x120 | 1         | 2         | 200     | 120     | 2       | 2/6893 | 4,74  |
| CCFE 300x120 | 1         | 2         | 300     | 120     | 2       | 2/6894 | 5,22  |
| CCFE 400x120 | 1         | 2         | 400     | 120     | 2       | 2/6895 | 5,69  |
| CCFE 500x120 | 1         | 2         | 500     | 120     | 2       | 2/6896 | 6,16  |
| CCFE 600x120 | 1         | 2         | 600     | 120     | 2       | 2/6897 | 6,64  |
| CCFE 150x150 | 1         | 2         | 150     | 150     | 2       | 2/6898 | 5,50  |
| CCFE 200x150 | 1         | 2         | 200     | 150     | 2       | 2/6899 | 5,73  |
| CCFE 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6900 | 6,21  |
| CCFE 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6901 | 6,68  |
| CCFE 500x150 | 1         | 2         | 500     | 150     | 2       | 2/6902 | 7,15  |
| CCFE 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6903 | 7,63  |

Two FE couplers of the corresponding height are needed to mount

Each accessory requires 8 bolts (16 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



CCFE H75/100/120  
RUNG H120: 40x20



CCFE H150

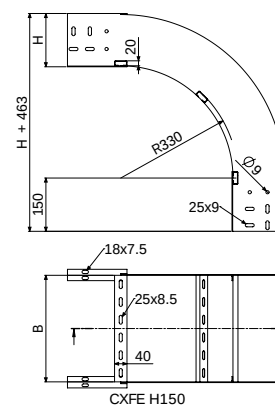
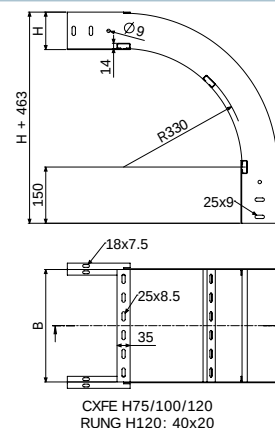
## VERTICAL OUTSIDE FE



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|--------------|-----------|-----------|---------|---------|---------|--------|-------|
|              |           |           |         |         |         | REF.   | kg/ud |
| CXFE 100x75  | 1         | 2         | 100     | 75      | 2       | 2/0909 | 2,61  |
| CXFE 150x75  | 1         | 2         | 150     | 75      | 2       | 2/0910 | 2,75  |
| CXFE 200x75  | 1         | 2         | 200     | 75      | 2       | 2/0911 | 2,88  |
| CXFE 300x75  | 1         | 2         | 300     | 75      | 2       | 2/0912 | 3,15  |
| CXFE 400x75  | 1         | 2         | 400     | 75      | 2       | 2/0913 | 3,43  |
| CXFE 500x75  | 1         | 2         | 500     | 75      | 2       | 2/0914 | 3,70  |
| CXFE 600x75  | 1         | 2         | 600     | 75      | 2       | 2/0915 | 3,97  |
| CXFE 100x100 | 1         | 2         | 100     | 100     | 2       | 2/0916 | 3,41  |
| CXFE 150x100 | 1         | 2         | 150     | 100     | 2       | 2/0917 | 3,55  |
| CXFE 200x100 | 1         | 2         | 200     | 100     | 2       | 2/0918 | 3,69  |
| CXFE 300x100 | 1         | 2         | 300     | 100     | 2       | 2/0919 | 3,95  |
| CXFE 400x100 | 1         | 2         | 400     | 100     | 2       | 2/0920 | 4,22  |
| CXFE 500x100 | 1         | 2         | 500     | 100     | 2       | 2/0921 | 4,49  |
| CXFE 600x100 | 1         | 2         | 600     | 100     | 2       | 2/0922 | 4,76  |
| CXFE 150x120 | 1         | 2         | 150     | 120     | 2       | 2/6904 | 4,32  |
| CXFE 200x120 | 1         | 2         | 200     | 120     | 2       | 2/6905 | 4,51  |
| CXFE 300x120 | 1         | 2         | 300     | 120     | 2       | 2/6906 | 4,86  |
| CXFE 400x120 | 1         | 2         | 400     | 120     | 2       | 2/6907 | 5,21  |
| CXFE 500x120 | 1         | 2         | 500     | 120     | 2       | 2/6908 | 5,57  |
| CXFE 600x120 | 1         | 2         | 600     | 120     | 2       | 2/6909 | 5,92  |
| CXFE 150x150 | 1         | 2         | 150     | 150     | 2       | 2/6910 | 5,31  |
| CXFE 200x150 | 1         | 2         | 200     | 150     | 2       | 2/6911 | 5,50  |
| CXFE 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6912 | 5,85  |
| CXFE 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6913 | 6,21  |
| CXFE 500x150 | 1         | 2         | 500     | 150     | 2       | 2/6914 | 6,56  |
| CXFE 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6915 | 6,91  |

Two FE couplers of the corresponding height are needed to mount

Each bend requires 8 bolts (16 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



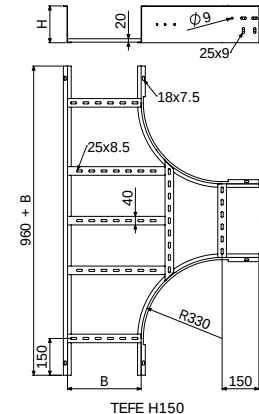
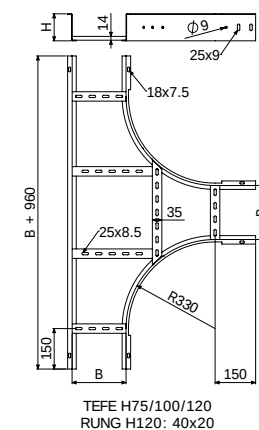
## TE DERIVATION FE



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|--------------|-----------|-----------|---------|---------|---------|--------|-------|
|              |           |           |         |         |         | REF.   | kg/ud |
| TEFE 100x75  | 1         | 2         | 100     | 75      | 2       | 2/0930 | 5,41  |
| TEFE 150x75  | 1         | 2         | 150     | 75      | 2       | 2/0931 | 5,76  |
| TEFE 200x75  | 1         | 2         | 200     | 75      | 2       | 2/0932 | 6,12  |
| TEFE 300x75  | 1         | 2         | 300     | 75      | 2       | 2/0933 | 6,84  |
| TEFE 400x75  | 1         | 2         | 400     | 75      | 2       | 2/0934 | 8,01  |
| TEFE 500x75  | 1         | 2         | 500     | 75      | 2       | 2/0935 | 8,81  |
| TEFE 600x75  | 1         | 2         | 600     | 75      | 2       | 2/0936 | 9,62  |
| TEFE 100x100 | 1         | 2         | 100     | 100     | 2       | 2/0937 | 6,56  |
| TEFE 150x100 | 1         | 2         | 150     | 100     | 2       | 2/0938 | 6,94  |
| TEFE 200x100 | 1         | 2         | 200     | 100     | 2       | 2/0939 | 7,32  |
| TEFE 300x100 | 1         | 2         | 300     | 100     | 2       | 2/0940 | 8,08  |
| TEFE 400x100 | 1         | 2         | 400     | 100     | 2       | 2/0941 | 9,29  |
| TEFE 500x100 | 1         | 2         | 500     | 100     | 2       | 2/0942 | 10,14 |
| TEFE 600x100 | 1         | 2         | 600     | 100     | 2       | 2/0943 | 10,98 |
| TEFE 150x120 | 1         | 2         | 150     | 120     | 2       | 2/6916 | 8,20  |
| TEFE 200x120 | 1         | 2         | 200     | 120     | 2       | 2/6917 | 8,69  |
| TEFE 300x120 | 1         | 2         | 300     | 120     | 2       | 2/6918 | 9,67  |
| TEFE 400x120 | 1         | 2         | 400     | 120     | 2       | 2/6919 | 11,24 |
| TEFE 500x120 | 1         | 2         | 500     | 120     | 2       | 2/6920 | 12,33 |
| TEFE 600x120 | 1         | 2         | 600     | 120     | 2       | 2/6921 | 13,42 |
| TEFE 150x150 | 1         | 2         | 150     | 150     | 2       | 2/6922 | 9,61  |
| TEFE 200x150 | 1         | 2         | 200     | 150     | 2       | 2/6923 | 10,13 |
| TEFE 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6924 | 11,15 |
| TEFE 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6925 | 12,78 |
| TEFE 500x150 | 1         | 2         | 500     | 150     | 2       | 2/6926 | 13,92 |
| TEFE 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6927 | 15,06 |

Four FE couplers of the corresponding height are needed to mount

Each accessory requires 16 bolts (32 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



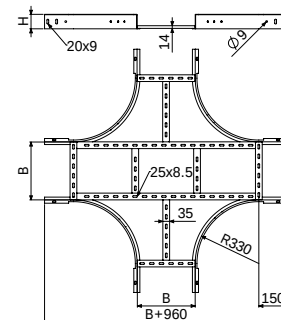
## CROSS DERIVATION FE



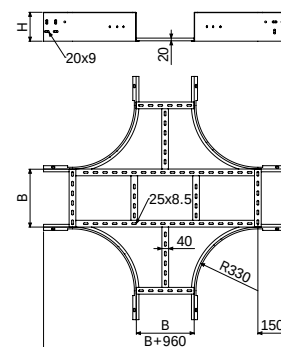
| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|--------------|-----------|-----------|---------|---------|---------|--------|-------|
|              |           |           |         |         |         | REF.   | kg/ud |
| CRFE 100x75  | 1         | 2         | 100     | 75      | 2       | 2/0951 | 6,54  |
| CRFE 150x75  | 1         | 2         | 150     | 75      | 2       | 2/0952 | 6,75  |
| CRFE 200x75  | 1         | 2         | 200     | 75      | 2       | 2/0953 | 7,07  |
| CRFE 300x75  | 1         | 2         | 300     | 75      | 2       | 2/0954 | 9,90  |
| CRFE 400x75  | 1         | 2         | 400     | 75      | 2       | 2/0955 | 10,71 |
| CRFE 500x75  | 1         | 2         | 500     | 75      | 2       | 2/0956 | 11,44 |
| CRFE 600x75  | 1         | 2         | 600     | 75      | 2       | 2/0957 | 15,01 |
| CRFE 100x100 | 1         | 2         | 100     | 100     | 2       | 2/0958 | 7,85  |
| CRFE 150x100 | 1         | 2         | 150     | 100     | 2       | 2/0959 | 8,15  |
| CRFE 200x100 | 1         | 2         | 200     | 100     | 2       | 2/0960 | 8,47  |
| CRFE 300x100 | 1         | 2         | 300     | 100     | 2       | 2/0961 | 11,29 |
| CRFE 400x100 | 1         | 2         | 400     | 100     | 2       | 2/0962 | 12,11 |
| CRFE 500x100 | 1         | 2         | 500     | 100     | 2       | 2/0963 | 12,84 |
| CRFE 600x100 | 1         | 2         | 600     | 100     | 2       | 2/0964 | 16,40 |
| CRFE 150x120 | 1         | 2         | 150     | 120     | 2       | 2/6928 | 9,62  |
| CRFE 200x120 | 1         | 2         | 200     | 120     | 2       | 2/6929 | 10,04 |
| CRFE 300x120 | 1         | 2         | 300     | 120     | 2       | 2/6930 | 13,81 |
| CRFE 400x120 | 1         | 2         | 400     | 120     | 2       | 2/6931 | 14,90 |
| CRFE 500x120 | 1         | 2         | 500     | 120     | 2       | 2/6932 | 15,87 |
| CRFE 600x120 | 1         | 2         | 600     | 120     | 2       | 2/6933 | 20,62 |
| CRFE 150x150 | 1         | 2         | 150     | 150     | 2       | 2/6934 | 11,30 |
| CRFE 200x150 | 1         | 2         | 200     | 150     | 2       | 2/6935 | 11,72 |
| CRFE 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6936 | 15,49 |
| CRFE 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6937 | 16,57 |
| CRFE 500x150 | 1         | 2         | 500     | 150     | 2       | 2/6938 | 17,55 |
| CRFE 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6939 | 22,30 |

Six FE couplers of the corresponding height are needed to mount

Each bend requires 24 bolts (48 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



CRFE H75/100/120  
RUNG H120: 40x20



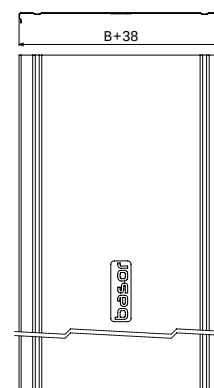
CRFE H150

## FE COVER



L = 3 m  
400/500/600 - L=2 m

| DESCRIPTION  | UVM<br>m | UVE<br>m | B<br>mm | e<br>mm | GC     |      |
|--------------|----------|----------|---------|---------|--------|------|
|              |          |          |         |         | REF.   | kg/m |
| FE COVER 100 | 3        | 3        | 100     | 0,7     | 2/4937 | 1,10 |
| FE COVER 150 | 3        | 3        | 150     | 0,7     | 2/4472 | 1,62 |
| FE COVER 200 | 3        | 3        | 200     | 0,7     | 2/4473 | 1,75 |
| FE COVER 300 | 3        | 3        | 300     | 0,7     | 2/3579 | 2,71 |
| FE COVER 400 | 2        | 2        | 400     | 0,7     | 2/4430 | 3,44 |
| FE COVER 500 | 2        | 2        | 500     | 0,8     | 2/4509 | 4,17 |
| FE COVER 600 | 2        | 2        | 600     | 0,8     | 2/4494 | 6,01 |

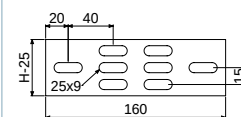


## FE JOINT PLATE

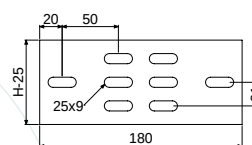


| DESCRIPTION          | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|----------------------|-----------|-----------|---------|---------|--------|-------|
|                      |           |           |         |         | REF.   | kg/ud |
| JOINT PLATE U FE 75  | 10        | 125       | 75      | 2       | 2/0854 | 0,08  |
| JOINT PLATE U FE 100 | 10        | 125       | 100     | 2       | 2/0856 | 0,20  |
| JOINT PLATE U FE 120 | 10        | 125       | 120     | 2       | 2/6940 | 0,25  |
| JOINT PLATE U FE 150 | 10        | 125       | 150     | 2       | 2/6941 | 0,33  |

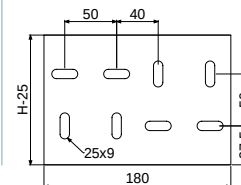
Each joint plate requires 4 bolts (8 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



U FE 75



U FE 100/120



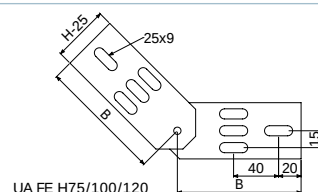
U FE 150

## FE ARTICULATED JOINT

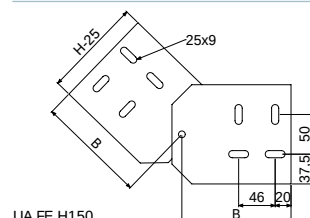


| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|-----------------|-----------|-----------|---------|---------|---------|--------|-------|
|                 |           |           |         |         |         | REF.   | kg/ud |
| FE A/JOINT H75  | 10        | 125       | 110     | 75      | 2       | 2/0857 | 0,08  |
| FE A/JOINT H100 | 10        | 125       | 137,5   | 100     | 2       | 2/0859 | 0,20  |
| FE A/JOINT H120 | 10        | 125       | 138     | 120     | 2       | 2/6944 | 0,25  |
| FE A/JOINT H150 | 10        | 125       | 138     | 150     | 2       | 2/6945 | 0,33  |

Each articulated joint requires 4 bolts (8 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



UA FE H75/100/120



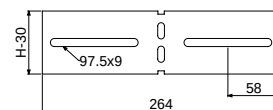
UA FE H150

## FE ANGLE JOINT

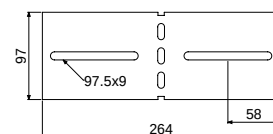


| DESCRIPTION        | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|--------------------|-----------|-----------|---------|---------|--------|-------|
|                    |           |           |         |         | REF.   | kg/ud |
| FE A/JOINT UB H75  | 10        | 125       | 75      | 2       | 2/0860 | 0,13  |
| FE A/JOINT UB H100 | 10        | 125       | 100     | 2       | 2/0862 | 0,30  |
| FE A/JOINT UB H120 | 10        | 125       | 120     | 2       | 2/6944 | 0,38  |
| FE A/JOINT UB H150 | 10        | 125       | 150     | 2       | 2/6945 | 0,46  |

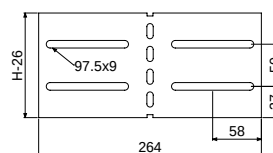
Each angle joint requires 4 bolts (8 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



UB FE H75/100



UB FE H120



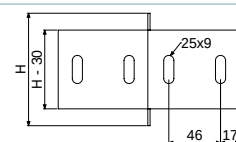
UB FE H150

## FE REDUCTION

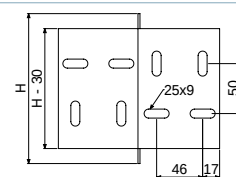


| DESCRIPTION          | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|----------------------|-----------|-----------|---------|---------|---------|--------|-------|
|                      |           |           |         |         |         | REF.   | kg/ud |
| FE REDUCTION 50x75   | 1         | 1         | 50      | 75      | 2       | 2/6803 | 0,17  |
| FE REDUCTION 100x75  | 1         | 1         | 100     | 75      | 2       | 2/6804 | 0,23  |
| FE REDUCTION 150x75  | 1         | 1         | 150     | 75      | 2       | 2/6805 | 0,30  |
| FE REDUCTION 200x75  | 1         | 1         | 200     | 75      | 2       | 2/6806 | 0,36  |
| FE REDUCTION 50x100  | 1         | 1         | 50      | 100     | 2       | 2/6807 | 0,26  |
| FE REDUCTION 100x100 | 1         | 1         | 100     | 100     | 2       | 2/6808 | 0,34  |
| FE REDUCTION 150x100 | 1         | 1         | 150     | 100     | 2       | 2/6809 | 0,43  |
| FE REDUCTION 200x100 | 1         | 1         | 200     | 100     | 2       | 2/6810 | 0,51  |
| FE REDUCTION 50x120  | 1         | 1         | 50      | 120     | 2       | 2/6954 | 0,33  |
| FE REDUCTION 100x120 | 1         | 1         | 100     | 120     | 2       | 2/6955 | 0,43  |
| FE REDUCTION 150x120 | 1         | 1         | 150     | 120     | 2       | 2/6956 | 0,53  |
| FE REDUCTION 200x120 | 1         | 1         | 200     | 120     | 2       | 2/6957 | 0,63  |
| FE REDUCTION 50x150  | 1         | 1         | 50      | 150     | 2       | 2/6958 | 0,42  |
| FE REDUCTION 100x150 | 1         | 1         | 100     | 150     | 2       | 2/6959 | 0,55  |
| FE REDUCTION 150x150 | 1         | 1         | 150     | 150     | 2       | 2/6960 | 0,67  |
| FE REDUCTION 200x150 | 1         | 1         | 200     | 150     | 2       | 2/6961 | 0,80  |

Each piece requires 4 bolts (8 for H150 height) with reference number 2/6792 in GC (products packed in bags containing 100 units).



RE FE H75/100/120



RE FE H150

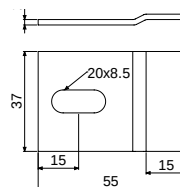
## FE CLAMP



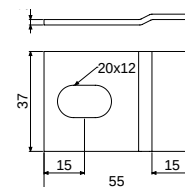
| DESCRIPTION      | UVM<br>ud | UVE<br>ud | e<br>mm | GC     |       |
|------------------|-----------|-----------|---------|--------|-------|
|                  |           |           |         | REF.   | kg/ud |
| FE CLAMP M-6/8   | 100       | 500       | 2       | 2/0863 | 0,029 |
| FE CLAMP M-10/12 | 100       | 500       | 2       | 2/0864 | 0,028 |

Used to fix the trays to the supports.

Two clamps are needed for each support.



M-6/8



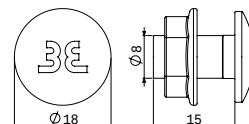
M-10/12

## B2 BOLT SET M8x15



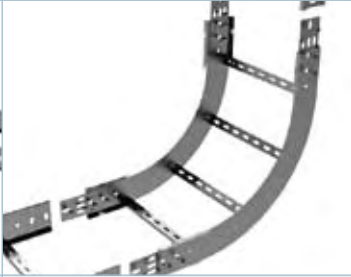
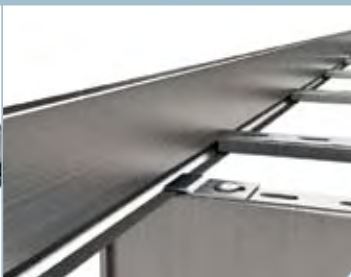
| DESCRIPTION                | UVM<br>ud | UVE<br>ud | Pap<br>Nm | GC     |       |
|----------------------------|-----------|-----------|-----------|--------|-------|
|                            |           |           |           | REF.   | kg/ud |
| PACK 100 B2 BOLT SET M8x15 | 1         | 1         | 15        | 2/6792 | 1,00  |

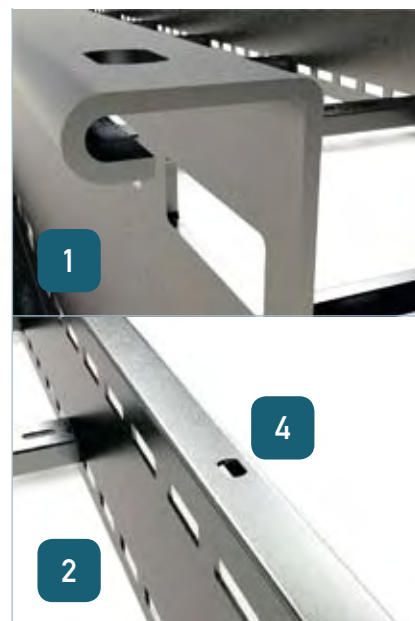
The B2 bolt set consists of a M8x15 DIN603 mushroom head square neck bolt and a M8 DIN6923 flange nut with serration for a perfect fit. Used to mount all accessories BASORTRAV series.





## FE MOUNTS

| FE SELF-ASSEMBLY                                                                   | CPFE HORIZONTAL BEND                                                               | CC VERTICAL INSIDE                                                                  | CRFE CROSS INTERSECTION                                                             |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |   |   |  |
|                                                                                    |                                                                                    |                                                                                     |                                                                                     |
| REFE + FE                                                                          | UA-FE ARTICULATED JOINT                                                            | SHR+FE CLAMP M8 + FE                                                                |                                                                                     |
|  |  |  |                                                                                     |
|                                                                                    |                                                                                    | SHR support – page 83.                                                              |                                                                                     |



1 Security edge to avoid accidents.

2 Perforated side to facilitate:

- Ventilation in case a cover is assembled.
- Assembly in situations in which the union between the parts when cut is done at the workplace.

3 Rungs are characterised by two things:

- Their varied layout allows the use of different cable fixation systems.
- Their curved design avoids possible accidents in cables and people.

4 Perforations prepared for the fixing of a cover.

5 Profile designed to sustain great loads.

6 Circular accessories which allow a radius of curvature of the cables of 330 mm.



| BSL | USEFUL AREA (cm <sup>2</sup> ) |      |
|-----|--------------------------------|------|
|     | H150                           | H200 |
| 300 | 345                            | 495  |
| 400 | 460                            | 660  |
| 600 | 690                            | 990  |

## BSL H150 CABLE LADDER



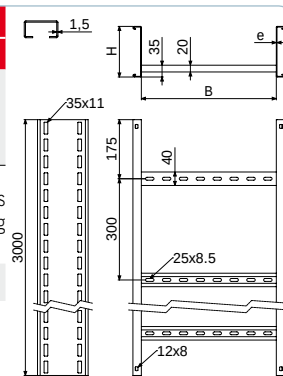
L = 3 m

| DESCRIPTION             | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=3m<br>CTA (kg/m) | GC     |      |
|-------------------------|----------|----------|---------|---------|---------|--------------------|--------|------|
|                         |          |          |         |         |         |                    | REF.   | kg/m |
| BASORTRAV BSL 300x150x2 | 3        | 6        | 300     | 150     | 2       | 327                | 2/6437 | 8,00 |
| BASORTRAV BSL 400x150x2 | 3        | 6        | 400     | 150     | 2       | 327                | 2/6438 | 8,38 |
| BASORTRAV BSL 600x150x2 | 3        | 6        | 600     | 150     | 2       | 327                | 2/6439 | 9,14 |

For the assembly of the cable trays, 2 BSL H150 couplers with reference number 2/6445 in GC and 16 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

Other lengths may be manufactured under order.

For more technical information, please consult page 211.



## BSL H200 CABLE LADDER



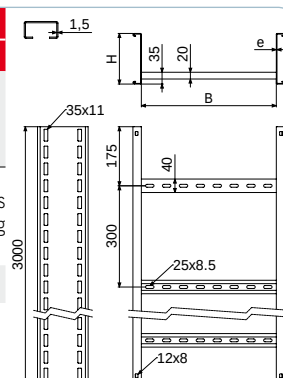
L = 3 m

| DESCRIPTION             | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | d=3m<br>CTA (kg/m) | GC     |       |
|-------------------------|----------|----------|---------|---------|---------|--------------------|--------|-------|
|                         |          |          |         |         |         |                    | REF.   | kg/m  |
| BASORTRAV BSL 300x200x2 | 3        | 6        | 300     | 200     | 2       | 503                | 2/6442 | 9,73  |
| BASORTRAV BSL 400x200x2 | 3        | 6        | 400     | 200     | 2       | 503                | 2/6443 | 10,11 |
| BASORTRAV BSL 600x200x2 | 3        | 6        | 600     | 200     | 2       | 351                | 2/6444 | 10,87 |

For the assembly of the cable trays, 2 BSL H200 couplers with reference number 2/6446 in GC and 16 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

Other lengths may be manufactured under order.

For more technical information, please consult page 211.

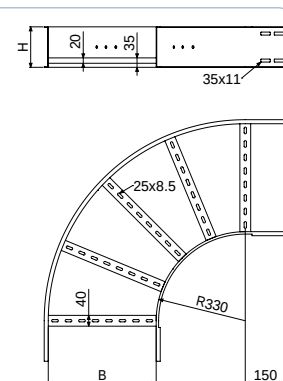


## CPBSL HORIZONTAL BEND



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| CPBSL 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6962 | 7,51  |
| CPBSL 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6963 | 8,90  |
| CPBSL 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6964 | 11,67 |
| CPBSL 300x200 | 1         | 2         | 300     | 200     | 2       | 2/6965 | 9,33  |
| CPBSL 400x200 | 1         | 2         | 400     | 200     | 2       | 2/6966 | 10,86 |
| CPBSL 600x200 | 1         | 2         | 600     | 200     | 2       | 2/6967 | 13,91 |

For the assembly of the bend, 2 BSL couplers of the corresponding height and 16 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

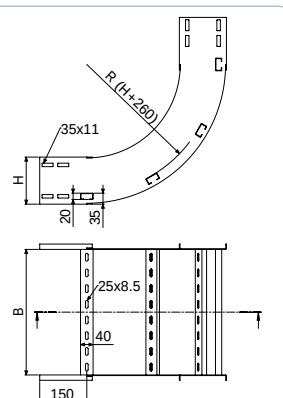


## CCBSL VERTICAL INSIDE



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| CCBSL 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6968 | 6,05  |
| CCBSL 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6969 | 6,51  |
| CCBSL 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6970 | 7,42  |
| CCBSL 300x200 | 1         | 2         | 300     | 200     | 2       | 2/6971 | 7,84  |
| CCBSL 400x200 | 1         | 2         | 400     | 200     | 2       | 2/6972 | 8,30  |
| CCBSL 600x200 | 1         | 2         | 600     | 200     | 2       | 2/6973 | 9,21  |

For the assembly of the accessory, 2 BSL couplers of the corresponding height and 16 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

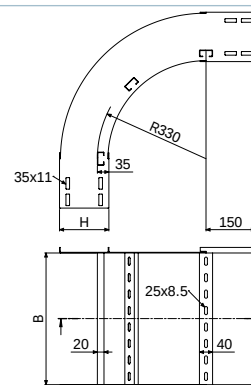


## CXBSL VERTICAL OUTSIDE



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| CXBSL 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6974 | 5,71  |
| CXBSL 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6975 | 6,05  |
| CXBSL 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6976 | 6,74  |
| CXBSL 300x200 | 1         | 2         | 300     | 200     | 2       | 2/6977 | 7,50  |
| CXBSL 400x200 | 1         | 2         | 400     | 200     | 2       | 2/6978 | 7,84  |
| CXBSL 600x200 | 1         | 2         | 600     | 200     | 2       | 2/6979 | 8,53  |

For the assembly of the accessory, 2 BSL couplers of the corresponding height and 16 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

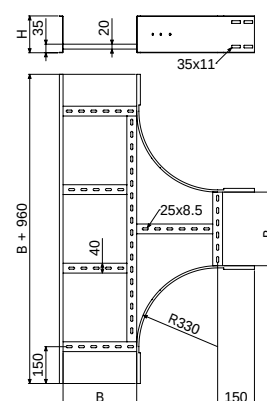


## TEBSL INTERSECTION



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| TEBSL 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6980 | 11,36 |
| TEBSL 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6981 | 12,76 |
| TEBSL 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6982 | 14,96 |
| TEBSL 300x200 | 1         | 2         | 300     | 200     | 2       | 2/6983 | 13,87 |
| TEBSL 400x200 | 1         | 2         | 400     | 200     | 2       | 2/6984 | 15,35 |
| TEBSL 600x200 | 1         | 2         | 600     | 200     | 2       | 2/6985 | 17,73 |

For the assembly of the accessory, 4 BSL couplers of the corresponding height and 32 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

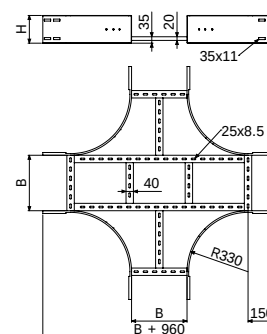


## CRBSL INTERSECTION



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | e<br>mm | GC     |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| CRBSL 300x150 | 1         | 2         | 300     | 150     | 2       | 2/6986 | 13,85 |
| CRBSL 400x150 | 1         | 2         | 400     | 150     | 2       | 2/6987 | 15,84 |
| CRBSL 600x150 | 1         | 2         | 600     | 150     | 2       | 2/6988 | 17,89 |
| CRBSL 300x200 | 1         | 2         | 300     | 200     | 2       | 2/6989 | 16,68 |
| CRBSL 400x200 | 1         | 2         | 400     | 200     | 2       | 2/6990 | 18,67 |
| CRBSL 600x200 | 1         | 2         | 600     | 200     | 2       | 2/6991 | 20,72 |

For the assembly of the accessory, 6 BSL couplers of the corresponding height and 48 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

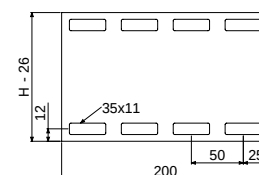


## BSL JOINT PLATE



| DESCRIPTION          | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|----------------------|-----------|-----------|---------|---------|--------|-------|
|                      |           |           |         |         | REF.   | kg/ud |
| BSL JOINT PLATE H150 | 10        | 125       | 150     | 2       | 2/6445 | 0,37  |
| BSL JOINT PLATE H200 | 10        | 125       | 200     | 2       | 2/6446 | 0,54  |

For the assembly of the joint plate, 8 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

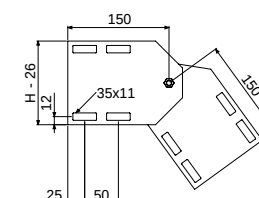


## BSL ARTICULATED JOINT



| DESCRIPTION        | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|--------------------|-----------|-----------|---------|---------|--------|-------|
|                    |           |           |         |         | REF.   | kg/ud |
| BSL J/JOINT A H150 | 10        | 125       | 150     | 2       | 2/6447 | 0,62  |
| BSL J/JOINT A H200 | 10        | 125       | 200     | 2       | 2/6448 | 0,91  |

For the assembly of the articulated joint, 8 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).

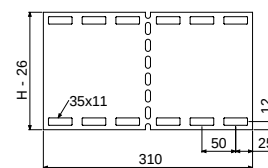


## BSL ANGLE JOINT



| DESCRIPTION            | UVM<br>ud | UVE<br>ud | H<br>mm | e<br>mm | GC     |       |
|------------------------|-----------|-----------|---------|---------|--------|-------|
|                        |           |           |         |         | REF.   | kg/ud |
| BSL ANGLE JOINT B H150 | 10        | 125       | 150     | 2       | 2/6449 | 0,56  |
| J/UNIÓN B BSL H200     | 10        | 125       | 200     | 2       | 2/6450 | 0,82  |

For the assembly of the angle joint, 8 bolts with reference number 2/6319 in cincado or 2/6320 in I304 are needed (products packed in bags containing 100 units).



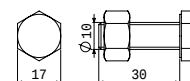
## BOLT SET M10X30



| DESCRIPTION             | UVM<br>ud | UVE<br>ud | Pap<br>Nm | CINCADO |       | I304   |       |
|-------------------------|-----------|-----------|-----------|---------|-------|--------|-------|
|                         |           |           |           | REF.    | kg/ud | REF.   | kg/ud |
| BOLT SET100 M10X30 D8.8 | 1         | 1         | 40        | 2/6319  | 3,80  | 2/6320 | 3,78  |

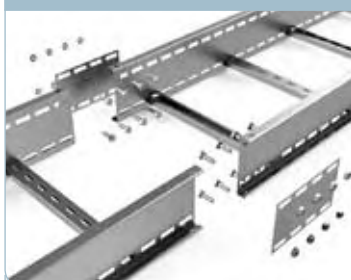
The bolt set consists of a M10x30 DIN933 and nut DIN934.

Used to mount all accessories BSL BASORTRAV.



## BSL MOUNTS

## JOINT PLATE



## ANGLE JOINT



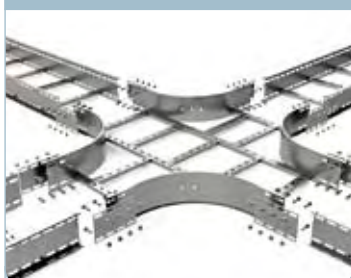
## CP BSL



## CC BSL



## CRBSL





## WALL SUPPORTS



1



2



3



4

## CEILING SUPPORTS



5



6



7



8

1. SR with wall bracket
2. SPL
3. SHL
4. SHV
5. SIMPLE HEAD BRACKET + PC
6. SZ
7. SPD
8. IPN PROFILE
9. SV
10. IPN HEAD
11. SP

# SCM

9



10



11



## SUPPORTS

WALL AND CURVED WALL SUPPORTS.....Page 80

CEILING SUPPORTS ..... Page 84

FLOOR SUPPORTS ..... Page 89

ASSEMBLY OF SUPPORTS ..... Page 92

# BASORSUPPORT

GS / GC / CINCADE

## SWL (kg) WALL AND CURVED WALL SUPPORTS

| PRODUCT              |                                                                                     |              | B  |     |     |     |     |     |     |     |     |     | 1000 | Page |
|----------------------|-------------------------------------------------------------------------------------|--------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|                      |                                                                                     |              | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |      |      |
| SHO                  |    | LIGHT LOADS  | -  | 85  | 75  | 100 | 70  | -   | -   | -   | -   | -   | -    | 81   |
| SCR                  |    |              | 70 | 70  | 70  | 70  | 70  | 70  | 70  | 60  | 60  | -   | -    | 81   |
| SRB                  |    |              | -  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | -   | -    | 81   |
| SR<br>(WALL BRACKET) |    | MEDIUM LOADS | -  | -   | -   | -   | 120 | 110 | 100 | 80  | -   | -   | -    | 82   |
| SR (PC)              |   |              | -  | -   | -   | -   | 250 | 250 | 250 | 240 | -   | -   | -    | 82   |
| SPL                  |  |              | -  | -   | 300 | 300 | 240 | 180 | 150 | 130 | -   | -   | -    | 82   |
| SHL                  |  |              | -  | 250 | 250 | 200 | 200 | 200 | 180 | 150 | -   | -   | -    | 82   |
| SP                   |  |              | -  | -   | 350 | 350 | 290 | 250 | 220 | 200 | -   | -   | -    | 82   |
| SHR                  |  | GREAT LOADS  | -  | -   | -   | -   | 340 | 340 | 340 | 340 | 340 | 340 | -    | 83   |
| SPD                  |  |              | -  | -   | -   | -   | -   | -   | 500 | 430 | 370 | 320 | 260  | 83   |
| SHV                  |  |              | -  | -   | -   | -   | 270 | 270 | 270 | 270 | 270 | 270 | -    | 83   |

## SHO SUPPORT



SHO Support

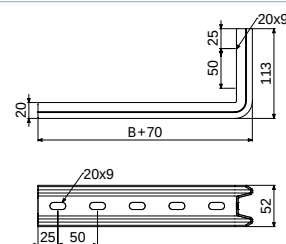


SHO Supporting piece

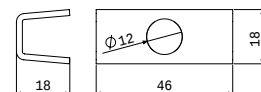
| DESCRIPTION          | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GS     |       | GC     |       |
|----------------------|-----------|-----------|---------|----------|--------|-------|--------|-------|
|                      |           |           |         |          | REF.   | kg/ud | REF.   | kg/ud |
| SHO 100 Support      | 1         | 10        | 100     | 85       | 2/0965 | 0,30  | 2/0970 | 0,33  |
| SHO 150 Support      | 1         | 10        | 150     | 75       | 2/0966 | 0,36  | 2/0971 | 0,40  |
| SHO 200 Support      | 1         | 10        | 200     | 100      | 2/0967 | 0,42  | 2/0972 | 0,45  |
| SHO 300 Support      | 1         | 10        | 300     | 70       | 2/0968 | 0,54  | 2/0973 | 0,58  |
| SHO Supporting piece | 1         | 10        | -       | -        | 2/6240 | -     | 2/6318 | -     |

When an SHO support is used directly on the wall or with a pendant without an OMEGA profile, it's necessary to use piece 2/6240 in GS or 2/6318 in GC.

For more technical information, please consult page 211.



SHO Support



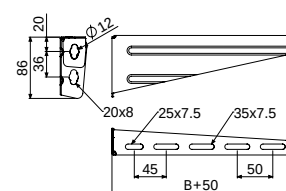
SHO Supporting piece

## SCR SUPPORT

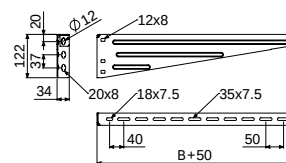


| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GS     |       | GC     |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud | REF.   | kg/ud |
| SCR 50 Support  | 1         | 100       | 50      | 70       | 2/0975 | 0,19  | 2/3450 | 0,20  |
| SCR 100 Support | 1         | 100       | 100     | 70       | 2/0976 | 0,24  | 2/0980 | 0,27  |
| SCR 150 Support | 1         | 80        | 150     | 70       | 2/0977 | 0,30  | 2/0981 | 0,33  |
| SCR 200 Support | 1         | 60        | 200     | 70       | 2/0978 | 0,38  | 2/0982 | 0,42  |
| SCR 300 Support | 1         | 10        | 300     | 70       | 2/0997 | 0,66  | 2/1002 | 0,68  |
| SCR 400 Support | 1         | 10        | 400     | 70       | 2/0998 | 0,83  | 2/1003 | 0,85  |
| SCR 500 Support | 1         | 10        | 500     | 70       | 2/0999 | 0,95  | 2/1004 | 1,03  |
| SCR 600 Support | 1         | 10        | 600     | 60       | 2/1000 | 1,11  | 2/1005 | 1,20  |
| SCR 750 Support | 1         | 5         | 750     | 60       | 2/3438 | 1,50  | 2/1006 | 1,81  |

For more technical information, please consult page 211.



SCR Support 50/100/200/300/400



SCR Support 500/600/750

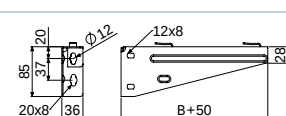
## SRB SUPPORT



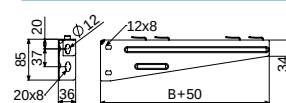
| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GS     |       | GC     |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud | REF.   | kg/ud |
| SRB 100 Support | 1         | 1         | 100     | 60       | 2/6372 | 0,25  | 2/6379 | 0,27  |
| SRB 150 Support | 1         | 1         | 150     | 60       | 2/6373 | 0,26  | 2/6380 | 0,29  |
| SRB 200 Support | 1         | 1         | 200     | 60       | 2/6374 | 0,38  | 2/6381 | 0,42  |
| SRB 300 Support | 1         | 1         | 300     | 60       | 2/6375 | 0,66  | 2/6382 | 0,68  |
| SRB 400 Support | 1         | 1         | 400     | 60       | 2/6376 | 0,80  | 2/6383 | 0,85  |
| SRB 500 Support | 1         | 1         | 500     | 60       | 2/6377 | 1,01  | 2/6384 | 1,09  |
| SRB 600 Support | 1         | 1         | 600     | 60       | 2/6378 | 1,11  | 2/6385 | 1,20  |

No bolts are needed to fix the wire-mesh cable trays.

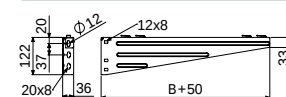
For more technical information, please consult page 211.



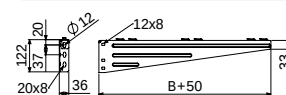
SRB Support 100/150/200



SRB Support 300/400



SRB Support 500



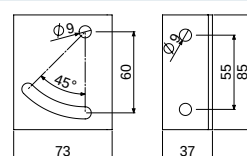
SRB Support 600

## SIMPLE WALL BRACKET



| DESCRIPTION         | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|---------------------|-----------|-----------|--------|-------|--------|-------|
|                     |           |           | REF.   | kg/ud | REF.   | kg/ud |
| Simple wall bracket | 1         | 100       | 2/6289 | 0,20  | 2/5881 | 0,20  |

Allows the assembly of models B500/600/750 of the SCR and SRB supports in curved walls and inclined planes.





## SR SUPPORT

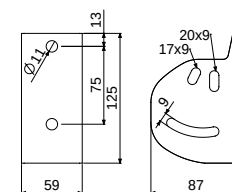


SR + Wall Bracket

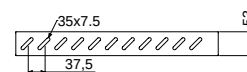
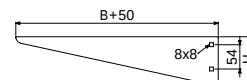


SR Wall Bracket

| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | Wall Bracket<br>SWL (kg) | PC<br>SWL (kg) | GS     |       | GC     |       |
|-----------------|-----------|-----------|---------|---------|--------------------------|----------------|--------|-------|--------|-------|
|                 |           |           |         |         |                          |                | REF.   | kg/ud | REF.   | kg/ud |
| SR 300 Support  | 1         | 1         | 300     | 80      | 120                      | 250            | 2/1028 | 0,78  | 2/1032 | 0,83  |
| SR 400 Support  | 1         | 1         | 400     | 100     | 110                      | 250            | 2/1029 | 1,14  | 2/1033 | 1,22  |
| SR 500 Support  | 1         | 1         | 500     | 100     | 100                      | 250            | 2/1030 | 1,38  | 2/1034 | 1,48  |
| SR 600 Support  | 1         | 1         | 600     | 100     | 80                       | 240            | 2/1031 | 1,71  | 2/1035 | 1,84  |
| SR Wall Bracket | 1         | 1         | -       | -       | -                        | -              | 2/6827 | 0,33  | 2/6828 | 0,35  |
| SR Bolt         | 1         | 1         | -       | -       | -                        | -              | 2/6793 | -     | -      | -     |



Wall Bracket SR



SR

It can be used in three ways. On walls with a PC profile, on ceilings with a PC profile and on curves with a wall bracket.

For assembly with wall bracket, 1 SR bolt with reference number 2/6793 and 2 B2 bolt set with reference 2/4926 in CINCADO or 2/6792 in GC are needed.

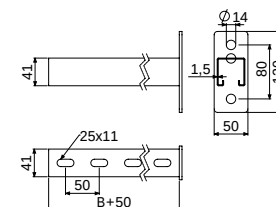
For assembly with PC profile, 4 B1 bolt sets with reference 2/4356 in GS or 2/6826 in GC are needed.

For more technical information, please consult page 211.

## SPL SUPPORT



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | CINCADO |       | GC     |       |
|-----------------|-----------|-----------|---------|----------|---------|-------|--------|-------|
|                 |           |           |         |          | REF.    | kg/ud | REF.   | kg/ud |
| SPL 150 Support | 1         | 1         | 150     | 300      | 2/6844  | 0,62  | 2/6836 | 0,69  |
| SPL 200 Support | 1         | 1         | 200     | 300      | 2/6845  | 0,64  | 2/6837 | 0,70  |
| SPL 300 Support | 1         | 1         | 300     | 240      | 2/6846  | 0,66  | 2/6838 | 0,72  |
| SPL 400 Support | 1         | 1         | 400     | 180      | 2/6847  | 0,93  | 2/6839 | 1,03  |
| SPL 500 Support | 1         | 1         | 500     | 150      | 2/6848  | 1,10  | 2/6840 | 1,21  |
| SPL 600 Support | 1         | 1         | 600     | 130      | 2/6849  | 1,40  | 2/6841 | 1,54  |

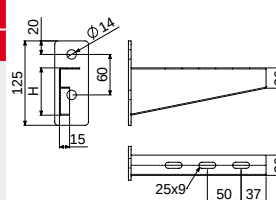


For more technical information, please consult page 211.

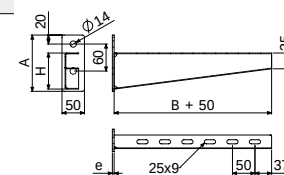
## SHL SUPPORT



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | H<br>mm | A<br>mm | B<br>mm | SWL (kg) | CINCADO |       | GC     |       |
|-----------------|-----------|-----------|---------|---------|---------|----------|---------|-------|--------|-------|
|                 |           |           |         |         |         |          | REF.    | kg/ud | REF.   | kg/ud |
| SHL 100 Support | 1         | 1         | 70      | 125     | 100     | 250      | 2/6873  | 0,30  | 2/6866 | 0,33  |
| SHL 150 Support | 1         | 1         | 70      | 125     | 150     | 250      | 2/6874  | 0,35  | 2/6867 | 0,39  |
| SHL 200 Support | 1         | 1         | 80      | 125     | 200     | 200      | 2/6875  | 0,47  | 2/6868 | 0,51  |
| SHL 300 Support | 1         | 1         | 80      | 125     | 300     | 200      | 2/6876  | 0,64  | 2/6869 | 0,69  |
| SHL 400 Support | 1         | 1         | 90      | 160     | 400     | 200      | 2/6877  | 0,91  | 2/6870 | 0,98  |
| SHL 500 Support | 1         | 1         | 100     | 160     | 500     | 180      | 2/6878  | 1,08  | 2/6871 | 1,16  |
| SHL 600 Support | 1         | 1         | 110     | 160     | 600     | 150      | 2/6879  | 1,26  | 2/6872 | 1,35  |



SHL 100/150/200



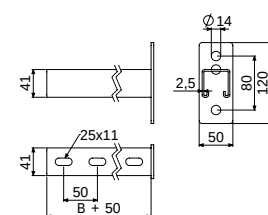
SHL 300/400/500/600

For more technical information, please consult page 211.

## SP SUPPORT



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | CINCADO |       | GC     |       |
|----------------|-----------|-----------|---------|----------|---------|-------|--------|-------|
|                |           |           |         |          | REF.    | kg/ud | REF.   | kg/ud |
| SP 150 Support | 1         | 1         | 150     | 350      | 2/6829  | 0,68  | 2/4939 | 0,71  |
| SP 200 Support | 1         | 1         | 200     | 350      | 2/6830  | 0,80  | 2/4733 | 0,84  |
| SP 300 Support | 1         | 1         | 300     | 290      | 2/6831  | 1,06  | 2/4734 | 1,11  |
| SP 400 Support | 1         | 1         | 400     | 250      | 2/6832  | 1,31  | 2/1036 | 1,38  |
| SP 500 Support | 1         | 1         | 500     | 220      | 2/6833  | 1,56  | 2/1037 | 1,64  |
| SP 600 Support | 1         | 1         | 600     | 200      | 2/6834  | 1,82  | 2/4938 | 1,91  |



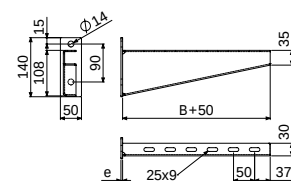
For more technical information, please consult page 211.



## SHR SUPPORT



| DESCRIPTION     | UVM | UVE | B   | e  | SWL (kg) | GC     |       |
|-----------------|-----|-----|-----|----|----------|--------|-------|
|                 | ud  | ud  | mm  | mm |          | REF.   | kg/ud |
| SHR 300 Support | 1   | 1   | 300 | 4  | 340      | 2/5525 | 1,29  |
| SHR 400 Support | 1   | 1   | 400 | 4  | 340      | 2/1023 | 1,57  |
| SHR 500 Support | 1   | 1   | 500 | 4  | 340      | 2/1024 | 1,86  |
| SHR 600 Support | 1   | 1   | 600 | 5  | 340      | 2/1025 | 2,15  |
| SHR 700 Support | 1   | 1   | 700 | 5  | 340      | 2/1026 | 2,43  |
| SHR 800 Support | 1   | 1   | 800 | 5  | 340      | 2/1027 | 2,72  |

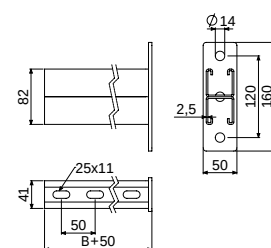


For more technical information, please consult page 211.

## SPD SUPPORT



| DESCRIPTION      | UVM | UVE | B    | SWL (kg) | GC     |       |
|------------------|-----|-----|------|----------|--------|-------|
|                  | ud  | ud  | mm   |          | REF.   | kg/ud |
| SPD 500 Support  | 1   | 1   | 500  | 500      | 2/6272 | 3,18  |
| SPD 600 Support  | 1   | 1   | 600  | 430      | 2/5621 | 3,71  |
| SPD 700 Support  | 1   | 1   | 700  | 370      | 2/6273 | 4,24  |
| SPD 800 Support  | 1   | 1   | 800  | 320      | 2/6274 | 4,77  |
| SPD 1000 Support | 1   | 1   | 1000 | 260      | 2/4641 | 5,84  |

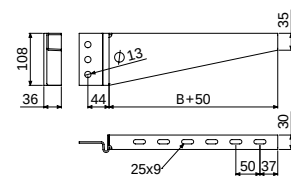


For more technical information, please consult page 211.

## SHV SUPPORT



| DESCRIPTION     | UVM | UVE | B   | SWL (kg) | GC     |       |
|-----------------|-----|-----|-----|----------|--------|-------|
|                 | ud  | ud  | mm  |          | REF.   | kg/ud |
| SHV 200 Support | 1   | 1   | 200 | 270      | 2/6058 | 0,99  |
| SHV 300 Support | 1   | 1   | 300 | 270      | 2/6271 | 1,28  |
| SHV 400 Support | 1   | 1   | 400 | 270      | 2/6259 | 1,58  |
| SHV 500 Support | 1   | 1   | 500 | 270      | 2/6057 | 1,88  |
| SHV 600 Support | 1   | 1   | 600 | 270      | 2/6275 | 2,17  |
| SHV 700 Support | 1   | 1   | 700 | 270      | 2/6276 | 2,47  |
| SHV 800 Support | 1   | 1   | 800 | 270      | 2/6277 | 2,77  |



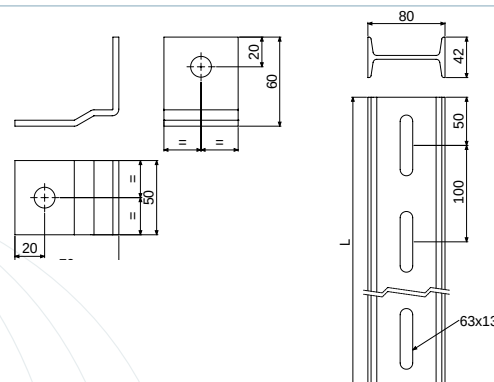
It is mounted with the IPN80 profile, 2 bolts M10x30 with reference 0/0512 in CINCADO or 0/0320 in I304 are needed (products packed in bags of 100).

For more technical information, please consult page 211.

## IPN80 FLANGE WALL MOUNTING



| DESCRIPTION        | UVM | UVE | L    | GC     |       |
|--------------------|-----|-----|------|--------|-------|
|                    | ud  | ud  | mm   | REF.   | kg/ud |
| IPN80 wall fange   | 1   | 1   | -    | 2/6342 | 0,19  |
| IPN80 600 profile  | 1   | 1   | 600  | 2/6345 | 3,49  |
| IPN80 1000 profile | 1   | 1   | 1000 | 2/6346 | 5,81  |
| IPN80 1300 profile | 1   | 1   | 1300 | 2/6347 | 6,55  |
| IPN80 1500 profile | 1   | 1   | 1500 | 2/6348 | 7,55  |
| IPN80 2000 profile | 1   | 1   | 2000 | 2/6349 | 11,62 |
| IPN80 3000 profile | 1   | 1   | 3000 | 2/6350 | 17,43 |



For more technical information, please consult page 211.

## SWL (kg) CEILING SUPPORTS

| PRODUCT                     |                                                                                     | B horizontal support or width tray |     |     |     |     |     |     |     |     |     | Page |
|-----------------------------|-------------------------------------------------------------------------------------|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                             |                                                                                     | 50                                 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |      |
| SHOT                        |    | -                                  | -   | 38  | 55  | 45  | 40  | -   | -   | -   | -   | 85   |
| SHO 400                     |    | 85                                 | 69  | 58  | 50  | 39  | -   | -   | -   | -   | -   | 85   |
| SVO + 2 VR8                 |    | -                                  | -   | 270 | 220 | 200 | 160 | 130 | 110 | -   | -   | 85   |
| PC + WALL BRACKET (SR)      |    | 144                                | 127 | 113 | 102 | 85  | 73  | 64  | 57  | -   | -   | 86   |
| PC+SIMPLE HEAD BRACKET(SCR) |   | 150                                | 120 | 100 | 86  | 67  | 55  | 46  | 40  | -   | -   | 86   |
| SPL                         |  | 304                                | 254 | 218 | 192 | 154 | 128 | 110 | 96  | -   | -   | 87   |
| SP                          |  | 404                                | 351 | 310 | 277 | 230 | 196 | 171 | 151 | -   | -   | 87   |
| SZ                          |  | 429                                | 375 | 333 | 300 | 250 | 214 | 188 | 167 | -   | -   | 87   |
| SPD                         |  | 614                                | 550 | 498 | 455 | 388 | 338 | 300 | 269 | 244 | 223 | 87   |
| IPN80                       |  | -                                  | -   | -   | 638 | 557 | 494 | 444 | 404 | 370 | 341 | 88   |

## SHO SUPPORT



SHO

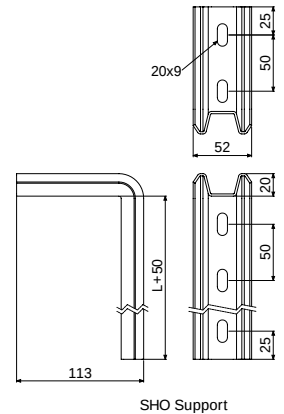


SHO ing piece

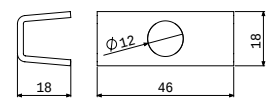
| DESCRIPTION          | UVM<br>ud | UVE<br>ud | L<br>mm | Fmax<br>kg | Mmax<br>kg-m | Cd<br>mm/kg-m | GS     |       | GC     |       |
|----------------------|-----------|-----------|---------|------------|--------------|---------------|--------|-------|--------|-------|
|                      |           |           |         |            |              |               | REF.   | kg/ud | REF.   | kg/ud |
| SHO 400 Support      | 1         | 10        | 400     | 147        | 6,8          | 1,91          | 2/0969 | 0,66  | 2/0974 | 0,71  |
| SHO Supporting piece | 1         | 10        | -       | -          | -            | -             | 2/6240 | 0,03  | 2/6318 | 0,03  |

To mount SHO support a supporting piece is necessary. SHO support is mounted with horizontal support SHO (2 B2 bolt set with reference 2/4926 in CINCADO or 2/6792 in GC are needed)

For more technical information, please consult page 211.



SHO Support



SHO Supporting piece

## SHOT SUPPORT



SHOT

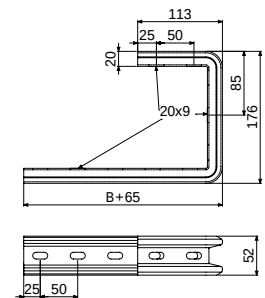


SHOT ing piece

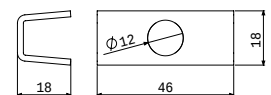
| DESCRIPTION           | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GS     |       | GC     |       |
|-----------------------|-----------|-----------|---------|----------|--------|-------|--------|-------|
|                       |           |           |         |          | REF.   | kg/ud | REF.   | kg/ud |
| SHOT 100 Support      | 1         | 4         | 100     | 38       | 2/1091 | 0,48  | 2/1095 | 0,52  |
| SHOT 150 Support      | 1         | 4         | 150     | 55       | 2/1092 | 0,52  | 2/1096 | 0,55  |
| SHOT 200 Support      | 1         | 4         | 200     | 45       | 2/1093 | 0,58  | 2/1097 | 0,62  |
| SHOT 300 Support      | 1         | 4         | 300     | 40       | 2/1094 | 0,70  | 2/1098 | 0,75  |
| SHOT Supporting piece | 1         | 10        | -       | -        | 2/6240 | 0,03  | 2/6318 | 0,04  |

To mount on ceiling, a supporting piece with reference 2/6240 in GS or 2/6318 in GC is necessary.

For more technical information, please consult page 211.



SHOT Support



Pieza SHO Support

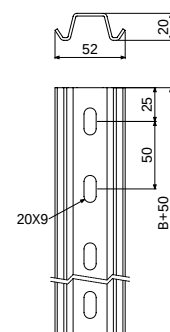
## SVO SUPPORT



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GS     |       | GC     |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud | REF.   | kg/ud |
| SVO 150 Support | 1         | 4         | 150     | 270      | 2/3630 | 0,24  | 2/6280 | 0,26  |
| SVO 200 Support | 1         | 4         | 200     | 220      | 2/1073 | 0,30  | 2/1078 | 0,33  |
| SVO 250 Support | 1         | 4         | 250     | 240      | 2/1074 | 0,36  | 2/1079 | 0,39  |
| SVO 300 Support | 1         | 4         | 300     | 200      | 2/1075 | 0,42  | 2/1080 | 0,93  |
| SVO 350 Support | 1         | 4         | 350     | 180      | 2/1076 | 0,48  | 2/1081 | 0,52  |
| SVO 400 Support | 1         | 4         | 400     | 160      | 2/3629 | 0,54  | 2/5719 | 0,58  |
| SVO 500 Support | 1         | 4         | 500     | 130      | 2/1077 | 0,66  | 2/1082 | 0,72  |
| SVO 600 Support | 1         | 4         | 600     | 110      | 2/5941 | 0,78  | 2/5720 | 0,84  |

To mount the SVO support to ceiling, 2 VR-8 reference 2/3397 and 4 nuts reference 0/0338 are needed (product packed in bags of 100).

For more technical information, please consult page 211.





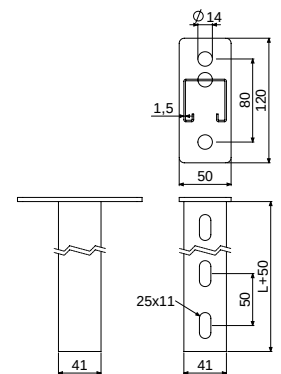
## SPL SUPPORT



|                 | UVM | UVE | L   | Fmax | Mmax | Cd      | CINCADO |       | GC      |       |
|-----------------|-----|-----|-----|------|------|---------|---------|-------|---------|-------|
| DESCRIPTION     | ud  | ud  | mm  | kg   | kg-m | mm/kg-m | REF.    | kg/ud | REF.    | kg/ud |
| SPL 300 Support | 1   | 1   | 300 | 442  | 31,4 | 0,192   | 2/6846  | 0,66  | 2/6838  | 0,72  |
| SPL 400 Support | 1   | 1   | 400 | 442  | 31,4 | 0,223   | 2/6847  | 1,02  | 2/6839  | 1,12  |
| SPL 500 Support | 1   | 1   | 500 | 442  | 31,4 | 0,287   | 2/6848  | 1,00  | 2/6840  | 1,10  |
| SPL 600 Support | 1   | 1   | 600 | 442  | 31,4 | 0,351   | 2/6849  | 1,40  | 2/6841  | 1,54  |
| SPL 700 Support | 1   | 1   | 700 | 442  | 31,4 | 0,415   | 2/6850  | 1,55  | 2/6842  | 1,71  |
| SPL 800 Support | 1   | 1   | 800 | 442  | 31,4 | 0,479   | 2/6851  | 1,64  | 1805427 | 1,80  |

Mounted on open side with supports: SRB, SCR, SPL, SHL, SP. Mounted on drilled side with supports: SRB, SCR, SHL.

For more technical information, please consult page 211.



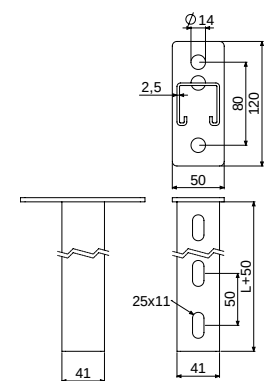
## SP SUPPORT



|                | UVM | UVE | L   | Fmax | Mmax | Cd      | CINCADO |       | GC     |       |
|----------------|-----|-----|-----|------|------|---------|---------|-------|--------|-------|
| DESCRIPTION    | ud  | ud  | mm  | kg   | kg-m | mm/kg-m | REF.    | kg/ud | REF.   | kg/ud |
| SP 300 Support | 1   | 1   | 300 | 534  | 49,2 | 0,142   | 2/6831  | 1,06  | 2/4734 | 1,11  |
| SP 400 Support | 1   | 1   | 400 | 534  | 49,2 | 0,203   | 2/6832  | 1,31  | 2/1036 | 1,38  |
| SP 500 Support | 1   | 1   | 500 | 534  | 49,2 | 0,265   | 2/6833  | 1,56  | 2/1037 | 1,64  |
| SP 600 Support | 1   | 1   | 600 | 534  | 49,2 | 0,326   | 2/6834  | 1,82  | 2/4938 | 1,91  |
| SP 800 Support | 1   | 1   | 800 | 534  | 49,2 | 0,509   | 2/6835  | 2,32  | 2/1038 | 2,44  |

Mounted on open side with supports: SRB, SCR, SPL, SHL, SP. Mounted on drilled side with supports: SRB, SCR, SHL.

For more technical information, please consult page 211.



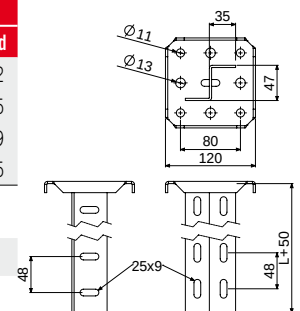
## SZ SUPPORT



|                | UVM | UVE | L   | Fmax | Mmax | Cd      | CINCADO |       | GC     |       |
|----------------|-----|-----|-----|------|------|---------|---------|-------|--------|-------|
| DESCRIPTION    | ud  | ud  | mm  | kg   | kg-m | mm/kg-m | REF.    | kg/ud | REF.   | kg/ud |
| SZ 300 Support | 1   | 1   | 300 | 556  | 54,1 | 0,224   | 2/6764  | 1,21  | 2/1069 | 1,22  |
| SZ 400 Support | 1   | 1   | 400 | 556  | 54,1 | 0,259   | 2/6765  | 1,45  | 2/1070 | 1,45  |
| SZ 500 Support | 1   | 1   | 500 | 556  | 54,1 | 0,345   | 2/6766  | 1,68  | 2/1071 | 1,69  |
| SZ 600 Support | 1   | 1   | 600 | 556  | 54,1 | 0,483   | 2/6767  | 1,95  | 2/1072 | 1,95  |

Mounted with supports: SRB, SCR, SPL, SHL.

For more technical information, please consult page 211.



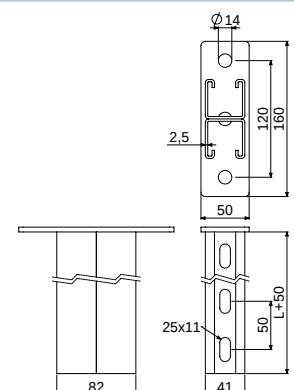
## SPD SUPPORT



|                  | UVM | UVE | L    | Fmax | Mmax | Cd      | GC     |       |
|------------------|-----|-----|------|------|------|---------|--------|-------|
| DESCRIPTION      | ud  | ud  | mm   | kg   | kg-m | mm/kg-m | REF.   | kg/ud |
| SPD 500 Support  | 1   | 1   | 500  | 755  | 95   | 0,147   | 2/6272 | 3,18  |
| SPD 600 Support  | 1   | 1   | 600  | 755  | 95   | 0,179   | 2/5621 | 3,71  |
| SPD 700 Support  | 1   | 1   | 700  | 755  | 95   | 0,211   | 2/6273 | 4,24  |
| SPD 800 Support  | 1   | 1   | 800  | 755  | 95   | 0,263   | 2/6274 | 4,77  |
| SPD 1000 Support | 1   | 1   | 1000 | 755  | 95   | 0,316   | 2/4641 | 5,84  |

Mounted with supports: SCB, SRB, SPL, SP, SPD, SHR.

For more technical information, please consult page 211.





## IPN80 SUPPORT



IPN80 Profile



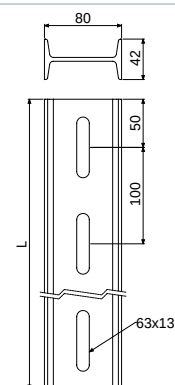
IPN80 Head

| DESCRIPTION        | UVM | UVE | L    | Fmax | Mmax | Cd      | GC     |       |
|--------------------|-----|-----|------|------|------|---------|--------|-------|
|                    | ud  | ud  | mm   | kg   | kg-m | mm/kg-m | REF.   | kg/ud |
| IPN80 600 Profile  | 1   | 1   | 600  | 955  | 145  | 0,069   | 2/6345 | 3,49  |
| IPN80 1000 Profile | 1   | 1   | 1000 | 955  | 145  | 0,092   | 2/6346 | 5,81  |
| IPN80 1300 Profile | 1   | 1   | 1300 | 955  | 145  | 0,117   | 2/6347 | 7,55  |
| IPN80 1500 Profile | 1   | 1   | 1500 | 955  | 145  | 0,138   | 2/6348 | 7,55  |
| IPN80 2000 Profile | 1   | 1   | 2000 | 955  | 145  | 0,172   | 2/6349 | 11,62 |
| IPN80 3000 Profile | 1   | 1   | 3000 | 955  | 145  | 0,275   | 2/6350 | 17,43 |
| IPN80 Head         | 1   | 1   | -    | -    | -    | -       | 2/6056 | 1,77  |

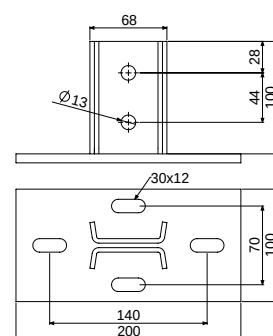
To join to the head support 2 M10x30 reference 2/6320 in I304 are needed (products packed in bags containing 100).

Mounted with SHV support.

For more technical information, please consult page 211.



IPN80 Profile



IPN80 Head

## SWL (kg) FLOOR SUPPORTS

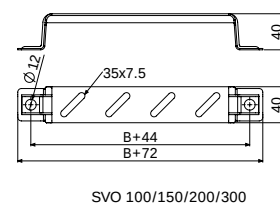
| PRODUCT  |                                                                                     | B soporte horizontal ó ancho de la bandeja |         |     |     |     |     |     |     |     | Page |     |    |
|----------|-------------------------------------------------------------------------------------|--------------------------------------------|---------|-----|-----|-----|-----|-----|-----|-----|------|-----|----|
|          |                                                                                     | 100                                        | 150     | 200 | 300 | 400 | 500 | 600 | 700 | 800 |      |     |    |
| SV       |    | WALL-FLOOR SPACER                          | 120     | 120 | 110 | 90  | 220 | 150 | 180 | -   | -    | 90  |    |
| SP       |    |                                            | MODULAR | 351 | 310 | 277 | 230 | 196 | 171 | 151 | -    | -   | 90 |
| SZ       |   |                                            |         | 375 | 333 | 300 | 250 | 214 | 188 | 167 | -    | -   | 90 |
| SPD      |  |                                            |         | 550 | 498 | 455 | 388 | 338 | 300 | 269 | 244  | 223 | 91 |
| IPN+HEAD |  | CEILING FLOOR                              | -       | -   | 638 | 557 | 494 | 444 | 404 | 370 | 341  | 91  |    |

## SV SUPPORTS

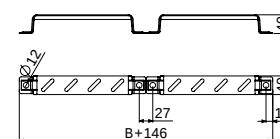


| DESCRIPTION    | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GS     |       | GC     |       |
|----------------|-----------|-----------|---------|----------|--------|-------|--------|-------|
|                |           |           |         |          | REF.   | kg/ud | REF.   | kg/ud |
| SV 100 Support | 1         | 50        | 100     | 120      | 2/1046 | 0,09  | 2/1050 | 0,10  |
| SV 150 Support | 1         | 40        | 150     | 120      | 2/1047 | 0,12  | 2/1051 | 0,13  |
| SV 200 Support | 1         | 42        | 200     | 110      | 2/1048 | 0,17  | 2/1052 | 0,19  |
| SV 300 Support | 1         | 60        | 300     | 90       | 2/1049 | 0,23  | 2/1053 | 0,25  |
| SV 400 Support | 1         | 20        | 400     | 220      | 2/3413 | 0,45  | 2/3418 | 0,48  |
| SV 500 Support | 1         | 20        | 500     | 150      | 2/3414 | 0,52  | 2/3419 | 0,56  |
| SV 600 Support | 1         | 20        | 600     | 180      | 2/3415 | 0,59  | 2/3420 | 0,64  |

For more technical information, please consult page 211.



SVO 100/150/200/300



SVO 400/500/600

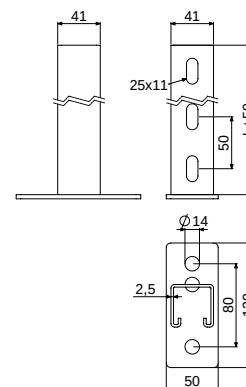
## SP SUPPORT



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | L<br>mm | Fmax<br>kg | Mmax<br>kg-m | Cd<br>mm/kg-m | CINCADO |       | GC     |       |
|----------------|-----------|-----------|---------|------------|--------------|---------------|---------|-------|--------|-------|
|                |           |           |         |            |              |               | REF.    | kg/ud | REF.   | kg/ud |
| SP 300 Support | 1         | 1         | 300     | 534        | 49,2         | 0,142         | 2/6831  | 1,06  | 2/4734 | 1,11  |
| SP 400 Support | 1         | 1         | 400     | 534        | 49,2         | 0,203         | 2/6832  | 1,31  | 2/1036 | 1,38  |
| SP 500 Support | 1         | 1         | 500     | 534        | 49,2         | 0,265         | 2/6833  | 1,56  | 2/1037 | 1,64  |
| SP 600 Support | 1         | 1         | 600     | 534        | 49,2         | 0,326         | 2/6834  | 1,82  | 2/4938 | 1,91  |
| SP 800 Support | 1         | 1         | 800     | 534        | 49,2         | 0,509         | 2/6835  | 2,32  | 2/1038 | 2,44  |

Mounted on the open face with supports: SRB, SCR, SPL, SHL, SP. Mounts on the drilled face with supports: SRB, SCR, SHL.

For more technical information, please consult page 211.



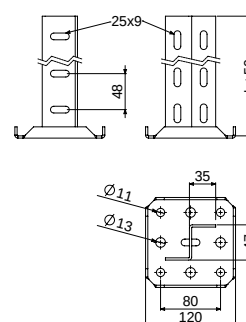
## SZ SUPPORT



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | L<br>mm | Fmax<br>kg | Mmax<br>kg-m | Cd<br>mm/kg-m | CINCADO |       | GC     |       |
|----------------|-----------|-----------|---------|------------|--------------|---------------|---------|-------|--------|-------|
|                |           |           |         |            |              |               | REF.    | kg/ud | REF.   | kg/ud |
| SZ 300 Support | 1         | 1         | 300     | 556        | 54,1         | 0,224         | 2/6764  | 1,21  | 2/1069 | 1,22  |
| SZ 400 Support | 1         | 1         | 400     | 556        | 54,1         | 0,259         | 2/6765  | 1,45  | 2/1070 | 1,45  |
| SZ 500 Support | 1         | 1         | 500     | 556        | 54,1         | 0,345         | 2/6766  | 1,68  | 2/1071 | 1,69  |
| SZ 600 Support | 1         | 1         | 600     | 556        | 54,1         | 0,483         | 2/6767  | 1,95  | 2/1072 | 1,95  |

Mounted with supports: SRB, SCR, SPL, SHL.

For more technical information, please consult page 211.



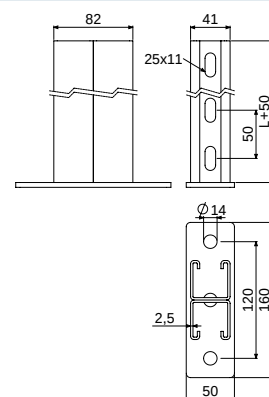
## SPD SUPPORT



| DESCRIPTION      | UVM<br>ud | UVE<br>ud | L<br>mm | Fmax<br>kg | Mmax<br>kg-m | Cd<br>mm/kg-m | GC     |       |
|------------------|-----------|-----------|---------|------------|--------------|---------------|--------|-------|
|                  |           |           |         |            |              |               | REF.   | kg/ud |
| SPD 500 Support  | 1         | 1         | 500     | 755        | 95           | 0,147         | 2/6272 | 3,18  |
| SPD 600 Support  | 1         | 1         | 600     | 755        | 95           | 0,179         | 2/5621 | 3,71  |
| SPD 700 Support  | 1         | 1         | 700     | 755        | 95           | 0,211         | 2/6273 | 4,24  |
| SPD 800 Support  | 1         | 1         | 800     | 755        | 95           | 0,263         | 2/6274 | 4,77  |
| SPD 1000 Support | 1         | 1         | 1000    | 755        | 95           | 0,316         | 2/4641 | 5,84  |

Mounted with supports: SCR, SRB, SPL, SHL, SP, SPD.

For more technical information, please consult page 211.



## IPN80 SUPPORT



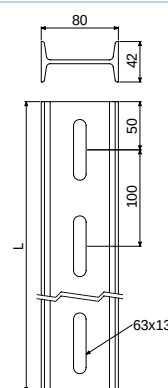
IPN80 Profile

| DESCRIPTION        | UVM<br>ud | UVE<br>ud | L<br>mm | Fmax<br>kg | Mmax<br>kg-m | Cd<br>mm/kg-m | GC     |       |
|--------------------|-----------|-----------|---------|------------|--------------|---------------|--------|-------|
|                    |           |           |         |            |              |               | REF.   | kg/ud |
| IPN80 600 Profile  | 1         | 1         | 600     | 955        | 145          | 0,069         | 2/6345 | 3,49  |
| IPN80 1000 Profile | 1         | 1         | 1000    | 955        | 145          | 0,092         | 2/6346 | 5,81  |
| IPN80 1300 Profile | 1         | 1         | 1300    | 955        | 145          | 0,117         | 2/6347 | 6,55  |
| IPN80 1500 Profile | 1         | 1         | 1500    | 955        | 145          | 0,138         | 2/6348 | 7,55  |
| IPN80 2000 Profile | 1         | 1         | 2000    | 955        | 145          | 0,172         | 2/6349 | 11,62 |
| IPN80 3000 Profile | 1         | 1         | 3000    | 955        | 145          | 0,275         | 2/6350 | 17,43 |
| IPN80 Head         | 1         | 1         | -       | -          | -            | -             | 2/6056 | 1,77  |

For the assembly to the head support 2 M10x30 with reference 2/6320 in I304 are needed (products packed in bags containing 100).

Mounted with SHV support.

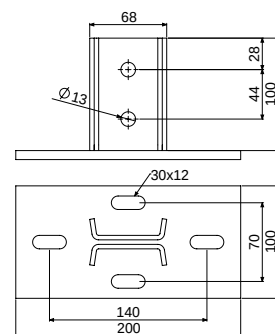
For more technical information, please consult page 211.



IPN80 Profile



IPN80 Head



IPN80 Head

## MOUNTS

| SH0400+SH0200+2B2                                                                 | SPL+SCR                                                                           | SPL+SCR                                                                            | SIMPLE HEAD BRACKET + PC + SCR                                                      |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| B2 bolt set page 65                                                               | PVC CAP page 160                                                                  | Twirl stud nut page 161<br>PVC CAP page 160                                        |                                                                                     |

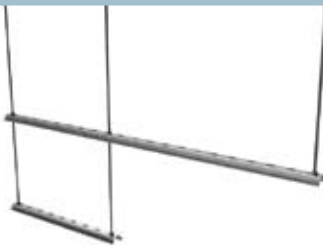
  

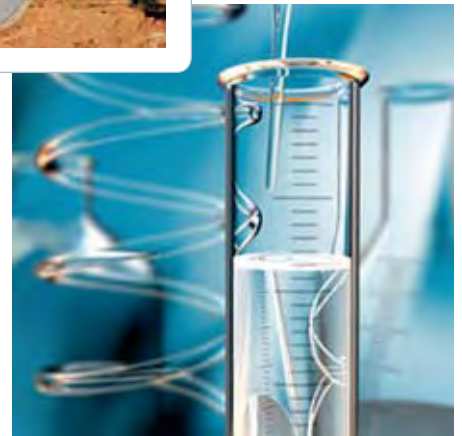
| Wall Bracket+PC+SR                                                                 | SP+SPL+TM-10                                                                       | SPD+SHR+TM-10                                                                       | HEAD SUPPORT + IPN80 + SHV                                                           |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |
|                                                                                    | Spring nut page 160<br>PVC cap page 160                                            | Spring nut page 160<br>PVC cap page 160                                             |                                                                                      |

| 2BEAM-PROFILE CLAMPS + 41X21 + SPD + 2SHR                                          | SZ+2SCR                                                                             | SR + PC ON WALL                                                                      | FLANGE WALL + IPN80 + SHV                                                             |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| Beam-profile clamp page 165<br>41x21 profile page 154<br>Spring nut page 160       |                                                                                     |                                                                                      | IPN80 flange wall mounting page 83                                                    |



| 2SV0 + 3VR8 + NUTS                                                                 | 2SP+41x41x2,5+4182 C+TM-8                                                          | SPD+4SCR+TM-10                                                                      | HEAD + IPN80 + SHR                                                                   |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|   |   |   |   |
| Threaded rod page 166<br>DIN 6923 nuts page 166                                    | 41x41 profile page 154<br>41/82C piece page 158<br>PVC cap page 160                | Spring nut page 160                                                                 |                                                                                      |
| SPD + 3 41x41 + 4182D + TM-10                                                      | SPD + HEAD + 4SHR + TM-10                                                          | 2 HEAD + IPN80 + 4SHV                                                               | 2 PC + 3 WALL BRACKET + 2SR                                                          |
|  |  |  |  |
| 41x41 profile page 154<br>41/82D piece page 158<br>Spring nut page 160             | Head 8241 page 156<br>Spring nut page 160                                          |                                                                                     |                                                                                      |



SCM



## BASORTRAY I304

|                       |         |
|-----------------------|---------|
| ERE Cable Trays ..... | Page 96 |
| ERE Accessories ..... | Page 97 |

## BASORFIL I304

|                                 |          |
|---------------------------------|----------|
| BFR Wire-mesh cable trays ..... | Page 100 |
| Union elements .....            | Page 102 |
| Accessories .....               | Page 103 |
| BFR Assemblies .....            | Page 105 |

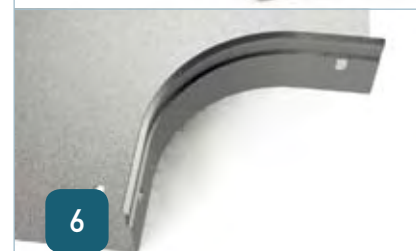
## BASORSUPPORT I304

|                |          |
|----------------|----------|
| Supports ..... | Page 106 |
|----------------|----------|

- Standard I304 steel products are the most basic solutions for situations in which the environment is corrosive, such as wine cellars, food factories, facilities located near the sea, sewage water treating plants, petrochemical factories, etc.

# I304

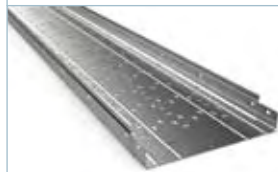




- 1 Longitudinal reinforcements to improve resistance to flexure.
- 2 Security edge to avoid accidents.
- 3 SELF-ASSEMBLY coupler system between the cable trays.
  - No couplers needed
  - Easier to install
  - Less time required for installation
  - Union with higher degree of rigidity
- 4 Corners finished at 45° to improve behaviour to flexure.
- 5 Pressure-fixed covers. No accessories required.
- 6 Accessories with circular insides to avoid damaging the cables.

| B(mm) | USEFUL AREA (cm <sup>2</sup> ) |
|-------|--------------------------------|
|       | H60                            |
| 100   | 58                             |
| 150   | 88                             |
| 200   | 118                            |
| 300   | 178                            |

## ERE P H60 I304



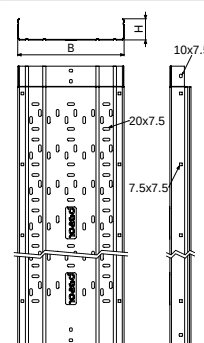
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=2<br>SWL (kg/m) | I304   |      |
|----------------|----------|----------|---------|---------|-------------------|--------|------|
|                |          |          |         |         |                   | REF.   | kg/m |
| B/P ERE 100X60 | 3        | 24       | 100     | 60      | 70                | 2/4795 | 1,25 |
| B/P ERE 150X60 | 3        | 18       | 150     | 60      | 70                | 2/4319 | 1,53 |
| B/P ERE 200X60 | 3        | 12       | 200     | 60      | 70                | 2/4688 | 1,80 |
| B/P ERE 300X60 | 3        | 12       | 300     | 60      | 70                | 2/4317 | 2,69 |

For the assembly of the cable trays, no couplers are needed. Each stretch requires 4 bolts with reference number 2/4925 in I304 (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H60 couplers with reference number 2/3233 in I304 are needed.

For more technical information, please consult page 211.



## ERE C H60 I304



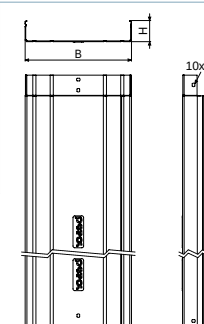
L = 3 m

| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=2<br>SWL (kg/m) | I304   |      |
|----------------|----------|----------|---------|---------|-------------------|--------|------|
|                |          |          |         |         |                   | REF.   | kg/m |
| B/C ERE 100X60 | 3        | 24       | 100     | 60      | 70                | 2/4907 | 1,46 |
| B/C ERE 150X60 | 3        | 18       | 150     | 60      | 70                | 2/5028 | 1,79 |
| B/C ERE 200X60 | 3        | 12       | 200     | 60      | 70                | 2/5029 | 2,10 |
| B/C ERE 300X60 | 3        | 12       | 300     | 60      | 70                | 2/4306 | 3,64 |

For the assembly of the cable trays, no couplers are needed. Each stretch requires 4 bolts with reference number 2/4925 in I304 (products packed in bags containing 100 units).

Should the union between the parts when cut be done at the workplace, JUER H60 couplers with reference number 2/3233 in I304 are needed.

For more technical information, please consult page 211.



## ERE COVER I304

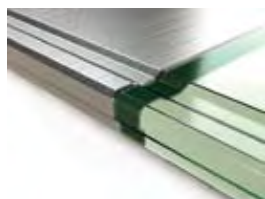
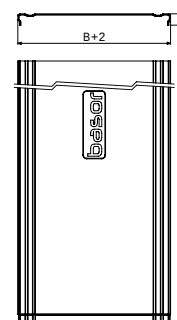


L = 3 m

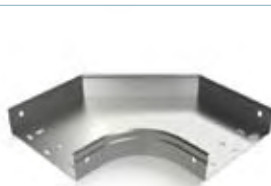
| DESCRIPTION   | UVM<br>m | UVE<br>m | B<br>mm | I304   |      |
|---------------|----------|----------|---------|--------|------|
|               |          |          |         | REF.   | kg/m |
| COVER ERE 100 | 3        | 3        | 100     | 2/4560 | 0,55 |
| COVER ERE 150 | 3        | 3        | 150     | 2/5123 | 0,76 |
| COVER ERE 200 | 3        | 3        | 200     | 2/4561 | 0,98 |
| COVER ERE 300 | 3        | 3        | 300     | 2/4716 | 1,55 |

For the assembly of the cover, no accessories are needed. It's fixed by applying pressure.

The cover can be self-assembled in order to improve its degree of protection (IP rating).



## ERE HORIZONTAL BEND I304

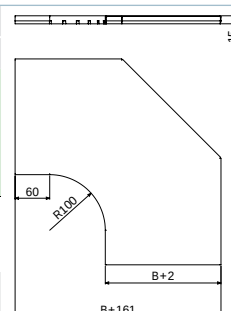


| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | I304   |       |
|--------------|-----------|-----------|---------|---------|--------|-------|
|              |           |           |         |         | REF.   | kg/ud |
| CPERC 100x60 | 1         | 1         | 100     | 60      | 2/4777 | 0,70  |
| CPERC 150x60 | 1         | 1         | 150     | 60      | 2/5317 | 0,88  |
| CPERC 200x60 | 1         | 1         | 200     | 60      | 2/4778 | 1,14  |
| CPERC 300x60 | 1         | 1         | 300     | 60      | 2/6180 | 1,77  |

The horizontal bend can be assembled both from the cable trays self-assembly side and from the non-self-assembly part.

Should it be assembled from the non-self-assembly part, it shall be necessary to use two JUER H60 I304 couplers with reference number 2/3233.

In both cases, each bend requires the use of 4 bolts with reference number 2/4925 in I304 (products packed in bags containing 100 units).



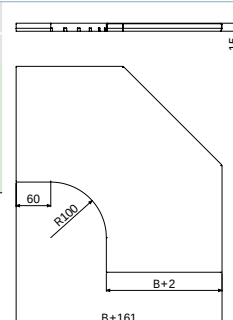


## ERE HORIZONTAL BEND COVER I304



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | I304   |       |
|-----------------|-----------|-----------|---------|--------|-------|
|                 |           |           |         | REF.   | kg/ud |
| COVER CPERC 100 | 1         | 1         | 100     | 2/3560 | 0,27  |
| COVER CPERC 150 | 1         | 1         | 150     | 2/3561 | 0,41  |
| COVER CPERC 200 | 1         | 1         | 200     | 2/3562 | 0,57  |
| COVER CPERC 300 | 1         | 1         | 300     | 2/3563 | 0,97  |

No accessories required for mounting. Pressure-fixed covers.

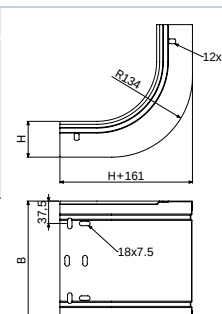


## ERE VERTICAL INSIDE I304



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | I304   |       |
|--------------|-----------|-----------|---------|---------|--------|-------|
|              |           |           |         |         | REF.   | kg/ud |
| CCERC 100x60 | 1         | 1         | 100     | 60      | 2/4908 | 0,50  |
| CCERC 150x60 | 1         | 1         | 150     | 60      | 2/5157 | 0,62  |
| CCERC 200x60 | 1         | 1         | 200     | 60      | 2/5024 | 0,74  |
| CCERC 300x60 | 1         | 1         | 300     | 60      | 2/6503 | 0,98  |

The vertical inside can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use two joints JUER H60 with reference 2/3233. In both cases, it requires the use of 4 bolts reference number 2/4925 in I304 (products packed in bags of 100).

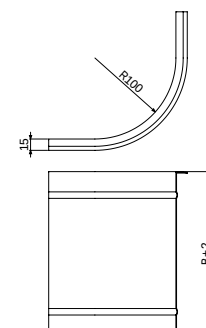


## ERE VERTICAL INSIDE COVER I304



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | I304   |       |
|-----------------|-----------|-----------|---------|--------|-------|
|                 |           |           |         | REF.   | kg/ud |
| COVER CCERC 100 | 1         | 1         | 100     | 2/3263 | 0,23  |
| COVER CCERC 150 | 1         | 1         | 150     | 2/3264 | 0,32  |
| COVER CCERC 200 | 1         | 1         | 200     | 2/3265 | 0,41  |
| COVER CCERC 300 | 1         | 1         | 300     | 2/3266 | 0,58  |

No accessories required for mounting. Pressure-fixed covers.

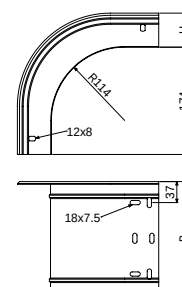


## ERE VERTICAL OUTSIDE I304



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | I304   |       |
|--------------|-----------|-----------|---------|---------|--------|-------|
|              |           |           |         |         | REF.   | kg/ud |
| CXERC 100X60 | 1         | 1         | 100     | 60      | 2/4909 | 0,45  |
| CXERC 150X60 | 1         | 1         | 150     | 60      | 2/5158 | 0,54  |
| CXERC 200X60 | 1         | 1         | 200     | 60      | 2/5025 | 0,64  |
| CXERC 300X60 | 1         | 1         | 300     | 60      | 2/6817 | 0,82  |

The vertical outside can be mounted either from the plug part or from the non-plug part. If mounted from the non-plug part is necessary to use two joints JUER H60 with reference 2/3233. In both cases, it requires the use of 4 bolts reference number 2/4925 in I304 (products packed in bags of 100).

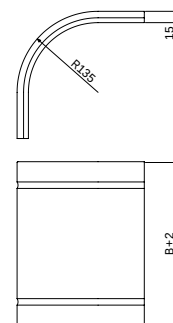


## ERE VERTICAL OUTSIDE COVER I304



| DESCRIPTION        | UVM<br>ud | UVE<br>ud | B<br>mm | I304   |       |
|--------------------|-----------|-----------|---------|--------|-------|
|                    |           |           |         | REF.   | kg/ud |
| COVER CXERC 100X60 | 1         | 1         | 100     | 2/3565 | 0,34  |
| COVER CXERC 150X60 | 1         | 1         | 150     | 2/3249 | 0,46  |
| COVER CXERC 200X60 | 1         | 1         | 200     | 2/3253 | 0,59  |
| COVER CXERC 300X60 | 1         | 1         | 300     | 2/3250 | 0,84  |

No accessories required for mounting. Pressure-fixed covers.

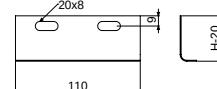


## JUER H60 JOINT PLATE I304



| DESCRIPTION | UVM<br>ud | UVE<br>ud | H<br>mm | I304   |       |
|-------------|-----------|-----------|---------|--------|-------|
|             |           |           |         | REF.   | kg/ud |
| JUER H60    | 1         | 60        | 60      | 2/3233 | 0,03  |

Two bolts are required to fix joint plate reference number 2/4925 in I304 (products packed in bags of 100).

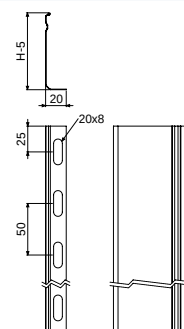


## DIVIDER PROFILE PS H60 I304



| DESCRIPTION | UVM<br>m | UVE<br>m | H<br>mm | I304   |      |
|-------------|----------|----------|---------|--------|------|
|             |          |          |         | REF.   | kg/m |
| PS H60      | 3        | 30       | 60      | 2/3645 | 0,34 |

One bolt is required to fix divider profile every 500mm reference number 2/4925 in I304 (products packed in bags of 100).

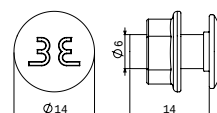


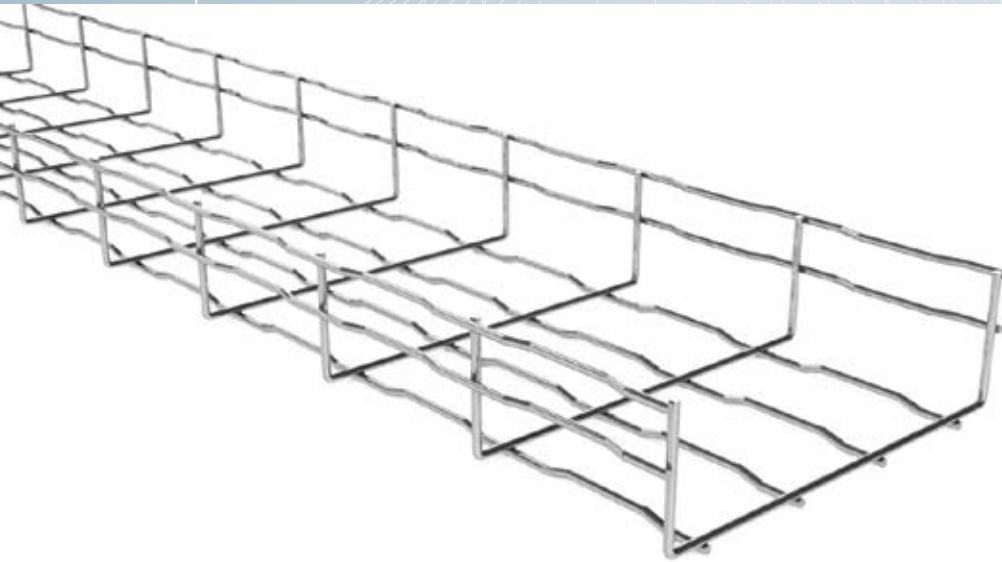
## B1 BOLT SET I304



| DESCRIPTION           | UVM<br>ud | UVE<br>ud | I304   |       |
|-----------------------|-----------|-----------|--------|-------|
|                       |           |           | REF.   | kg/ud |
| 100 B1 BOLT SET M6X14 | 1         | 1         | 2/4925 | 1,00  |

The B1 bolt set consists of a M6x14 DIN603 mushroom head square neck bolt and a M6 DIN6923 flange nut with serration for a perfect fit.





1 Optimal solution for systems which don't have high load needs.

2 Maximum ventilation and cleaning of the cables.

3 Innovative design patented by BASOR which offers:

- Greater save working load
- Excellent aesthetic finish

4 Quicker and easier assembly

- With simple manipulation based on the way in which the rods are cut, the tray can be easily moulded even with complicated changes in direction.
- The cuts have to be performed with asymmetrical-cut wire cutters.
- The cut has to be performed as near to the intersection of the steel wires as possible, in order to obtain a clean cut and a good assembly.



3

| B(mm) | USEFUL AREA (cm <sup>2</sup> ) |     |      |
|-------|--------------------------------|-----|------|
|       | H60                            | H65 | H105 |
| 60    | -                              | 23  | -    |
| 100   | 27                             | 47  | -    |
| 150   | 42                             | 75  | -    |
| 200   | 58                             | 102 | 193  |
| 300   | 89                             | 157 | 297  |
| 400   | -                              | 212 | 401  |
| 500   | -                              | 267 | 505  |
| 600   | -                              | 322 | 609  |

## BFR H35 I304

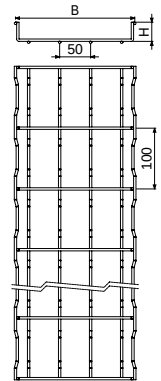


L = 3 m

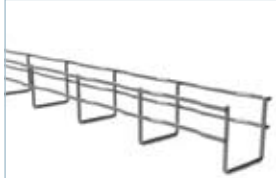
| DESCRIPTION         | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | I304   |      |
|---------------------|----------|----------|---------|---------|---------------------|--------|------|
|                     |          |          |         |         |                     | REF.   | kg/m |
| BASORFIL BFR 100X35 | 3        | 24       | 100     | 35      | 25                  | 2/0303 | 0,66 |
| BASORFIL BFR 150X35 | 3        | 24       | 150     | 35      | 25                  | 2/0304 | 0,72 |
| BASORFIL BFR 200X35 | 3        | 24       | 200     | 35      | 25                  | 2/0305 | 1,02 |
| BASORFIL BFR 300X35 | 3        | 18       | 300     | 35      | 25                  | 2/0306 | 1,39 |

To assemble the cable trays, it is necessary to use a bolt-staple set for each of the cable tray's side, with reference number 2/4915 in I304.

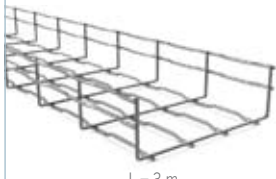
For more technical information, please consult page 211.



## BFR H65 I304



L = 3 m

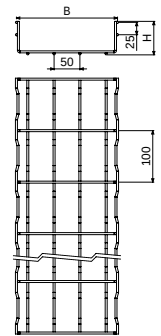


L = 3 m

| DESCRIPTION         | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | I304   |      |
|---------------------|----------|----------|---------|---------|---------------------|--------|------|
|                     |          |          |         |         |                     | REF.   | kg/m |
| BASORFIL BFR 60X65  | 3        | 36       | 60      | 65      | 32                  | 2/0307 | 0,66 |
| BASORFIL BFR 100X65 | 3        | 24       | 100     | 65      | 57                  | 2/0308 | 0,96 |
| BASORFIL BFR 150X65 | 3        | 18       | 150     | 65      | 57                  | 2/0309 | 1,02 |
| BASORFIL BFR 200X65 | 3        | 18       | 200     | 65      | 57                  | 2/0310 | 1,32 |
| BASORFIL BFR 300X65 | 3        | 18       | 300     | 65      | 57                  | 2/0311 | 1,69 |
| BASORFIL BFR 400X65 | 3        | 18       | 400     | 65      | 57                  | 2/0312 | 2,05 |
| BASORFIL BFR 500X65 | 3        | 18       | 500     | 65      | 65                  | 2/0313 | 2,41 |
| BASORFIL BFR 600X65 | 3        | 18       | 600     | 65      | 65                  | 2/0314 | 2,77 |

To assemble cable trays with a width which is lower or equal to 200 mm, it's necessary to use a bolt-staple set for each of the cable tray's side, with reference number 2/4915 in I304. For wider cable trays, an additional bolt-staple set shall be used as a central union joint too.

For more technical information, please consult page 211.



## BFR H105 I304

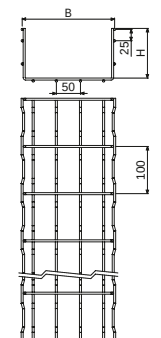


L = 3 m

| DESCRIPTION               | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | I304   |      |
|---------------------------|----------|----------|---------|---------|---------------------|--------|------|
|                           |          |          |         |         |                     | REF.   | kg/m |
| BASORFIL BFR 200X105 I304 | 3        | 12       | 200     | 105     | 76                  | 2/0315 | 1,69 |
| BASORFIL BFR 300X105 I304 | 3        | 12       | 300     | 105     | 76                  | 2/0316 | 2,05 |
| BASORFIL BFR 400X105 I304 | 3        | 12       | 400     | 105     | 83                  | 2/0317 | 2,41 |
| BASORFIL BFR 500X105 I304 | 3        | 12       | 500     | 105     | 83                  | 2/0318 | 2,77 |
| BASORFIL BFR 600X105 I304 | 3        | 12       | 600     | 105     | 83                  | 2/0319 | 3,14 |

To assemble cable trays with a width which is lower or equal to 200 mm, it's necessary to use a bolt-staple set for each of the cable tray's side, with reference number 2/4915 in I304. For wider cable trays, an additional bolt-staple set shall be used as a central union joint too.

For more technical information, please consult page 211.



## BOLT-STAPLE SET I304



## DESCRIPTION

## BF Bolt-Staple Set

It consists of a BF-bolt set and a BF-staple.

It can be used as a fastener in all BASORFIL tray series.

UVM

UVE

I304

ud

ud

REF.

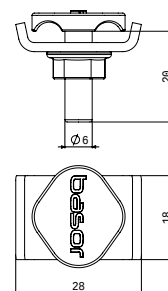
kg/ud

100

100

2/4915

0,023



## LATERAL UNION SET ULA I304



## DESCRIPTION

## Lateral Union Set ULA 65/105

It consists of a BF-bol set and a lateral union.

It can be used as a fastener with the BFH65 and BFH105 series. Of all the fasteners, this holds the tray the most rigid.

UVM

UVE

I304

ud

ud

REF.

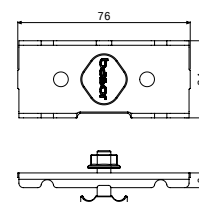
kg/ud

100

100

2/4921

0,055



## BF BOLT-NUT SET I304



## DESCRIPTION

## BF Bolt-Nut Set

It consists of a BF-bolt and a serrated nut DIN6923. The BF-bolt is specifically designed for BASOR to form a perfect fit between the wire trays.

**P** | PATENTED  
9602521

UVM

UVE

I304

ud

ud

REF.

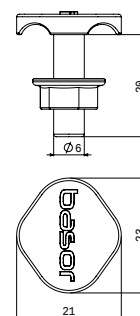
kg/ud

100

100

2/4923

0,015



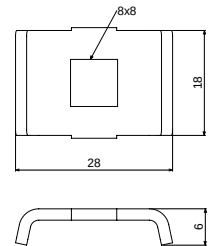


## BASORFIL STAPLE I304


**DESCRIPTION**  
**BF Staple**

| UVM<br>ud | UVE<br>ud | I304   |       |
|-----------|-----------|--------|-------|
|           |           | REF.   | kg/ud |
| 100       | 1500      | 2/0340 | 0,008 |

Its used to mount the profile divider.



## SSC CENTRAL SUSPENSION I304

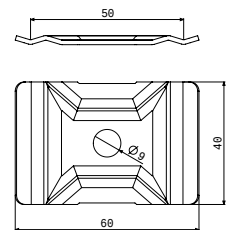

**DESCRIPTION**  
**SSC**

| UVM<br>ud | UVE<br>ud | I304   |       |
|-----------|-----------|--------|-------|
|           |           | REF.   | kg/ud |
| 10        | 400       | 2/0373 | 0,027 |

The SSC allows fix the tray to the ceiling with a electrogalvanised M8 threaded rod reference number 2/3397.

At each point of attachment takes two SSC (upper and lower), a rod and two nuts M8 DIN6923, reference 0/0338 in CINCADO and 0/0927 in GC (both products packed in bags of 100).

Also can be used as a fastener between wire mesh and any support with a B1 bolt set reference 2/4925 in I304.

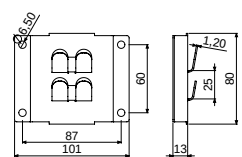


## SL I304


**DESCRIPTION**  
**SL Support**

| UVM<br>ud | UVE<br>ud | I304   |       |
|-----------|-----------|--------|-------|
|           |           | REF.   | kg/ud |
| 10        | 100       | 2/0375 | 0,13  |

Allows attachment to wall BASORFIL trays. Used with models 60x65 and 100x65.

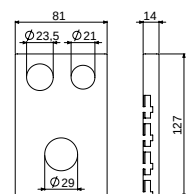


## STB I304


**DESCRIPTION**  
**STB**

| UVM<br>ud | UVE<br>ud | I304   |       |
|-----------|-----------|--------|-------|
|           |           | REF.   | kg/ud |
| 1         | 1         | 2/0376 | 0,14  |

Allows the fixation of conduits to the cables outlet. You can see section cable management systems insulation conduit.

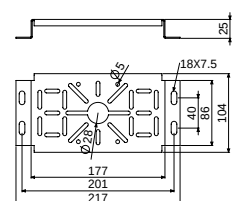


## UNIVERSAL SUPPORT BOX I304


**DESCRIPTION**  
**Universal Support Box**

| UVM<br>ud | UVE<br>ud | I304   |       |
|-----------|-----------|--------|-------|
|           |           | REF.   | kg/ud |
| 1         | 1         | 2/0378 | 0,273 |

Designed to allow the fixing of boxes to BASORFIL trays series.



## MINI UNIVERSAL SUPPORT BOX I304



## DESCRIPTION

Mini Universal Support Box

UVM

ud

UVE

ud

I304

REF.

kg/ud

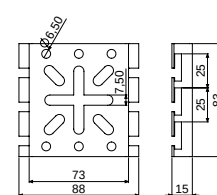
1

1

2/0379

0,08

Designed to allow the fixing of boxes to BASORFIL trays series.



## SIMPLE SL I304



## DESCRIPTION

SL Simple

UVM

ud

UVE

ud

I304

REF.

kg/ud

1

1

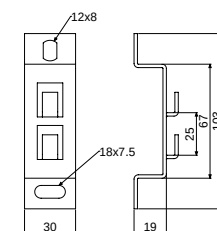
2/0380

0,05

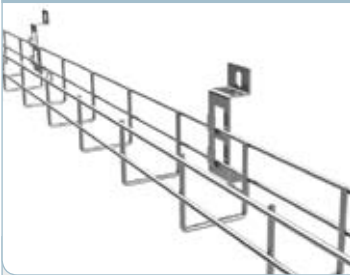
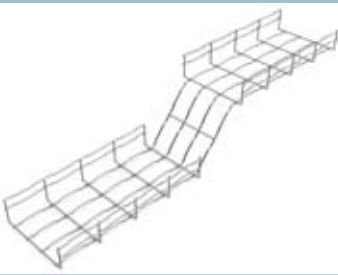
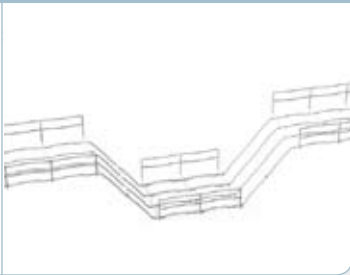
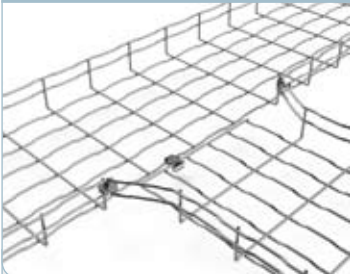
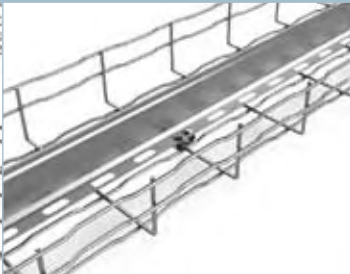
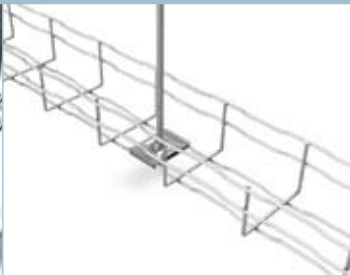
This piece allows to fix the BASORFIL trays to wall or ceiling, in this case with threaded rod.

For wall mounting is used with a 60x65 and 100x65 models only.

When mounted with threaded rod is necessary to take both sides of the tray. In this case the maximum width of tray is 200, being valid the heights 65 and 105 only.



## MONTAJES BASORFIL I304

| SIMPLE SL                                                                           | VERTICAL INSIDE                                                                     | LEVEL CHANGE                                                                         | VERTICAL OUTSIDE+INSIDE                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |    |
|                                                                                     | To reinforce the accessorie can be used pieces of multijunction with basorfil bolts | To reinforce the accessorie can be used pieces of multijunction with basorfil bolts  | To reinforce the accessorie can be used pieces of multijunction with basorfil bolts   |
| T INTERSECTION                                                                      | BFR+PS+B1+BF STAPLE                                                                 | BFR+SCR+BF BOLT                                                                      | BFR+2SL+2VR8+NUTS                                                                     |
|   |   |   |   |
|                                                                                     | B1 bolt set - page 99                                                               | SCR - page 107                                                                       | Threaded rod VR8 - page 166<br>M8 Nut DIN6923 - page 166                              |
| BFR+SVO+VR8+SSC+B1                                                                  | SSC CENTRAL SUSPENSION                                                              | SL                                                                                   | MINI UNIVERSAL SUPPORT BOX                                                            |
|  |  |  |  |
| SVO - page 107<br>Threaded rod VR8 and nut- page 166<br>B1 bolt set - page 99       | Threaded rod VR8 and nut- page 166                                                  |                                                                                      |                                                                                       |

## SWL (kg) WALL SUPPORTS

| PRODUCT |                                                                                   | B (mm) horizontal support |     |     |     |     |     |     |     | Página |     |
|---------|-----------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|--------|-----|
|         |                                                                                   | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 |        | 750 |
| SCR     |  | 75                        | 75  | 75  | 75  | 65  | 65  | 65  | 55  | 65     | 107 |

## SWL (kg) WALL-FLOOR SPACER

| PRODUCT |                                                                                   | B (mm) horizontal support |     |     |     |     |     |     |     | Página |     |
|---------|-----------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|--------|-----|
|         |                                                                                   | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 |        | 700 |
| SV      |  | -                         | 120 | 120 | 110 | 90  | -   | -   | -   | -      | 107 |

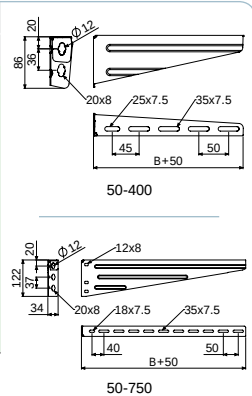
## SWL (kg) CEILING SUPPORTS

| PRODUCT           |                                                                                     | B (mm) horizontal support |     |     |     |     |     |     |     | Página |     |
|-------------------|-------------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|--------|-----|
|                   |                                                                                     | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 |        | 700 |
| SVO               |   | -                         | -   | 270 | 220 | 200 | 160 | 130 | 110 | -      | 107 |
| WALL BRACKET + PC |  | 144                       | 127 | 113 | 102 | 85  | 73  | 64  | 57  | -      | 107 |

## SCR Support I304



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | I304   |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud |
| SCR 50 Support  | 1         | 100       | 50      | 75       | 2/0994 | 0,19  |
| SCR 100 Support | 1         | 100       | 100     | 75       | 2/0995 | 0,24  |
| SCR 150 Support | 1         | 80        | 150     | 75       | 2/0996 | 0,30  |
| SCR 200 Support | 1         | 60        | 200     | 75       | 2/4691 | 0,38  |
| SCR 300 Support | 1         | 10        | 300     | 65       | 2/1020 | 0,49  |
| SCR 400 Support | 1         | 10        | 400     | 65       | 2/1021 | 0,62  |
| SCR 500 Support | 1         | 10        | 500     | 65       | 2/4464 | 0,72  |
| SCR 600 Support | 1         | 10        | 600     | 55       | 2/1022 | 0,83  |
| SCR 750 Support | 1         | 5         | 750     | 65       | 2/5445 | 1,50  |

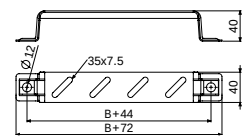


For more technical information, please consult page 211.

## SV SUPPORT I304



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | I304   |       |
|----------------|-----------|-----------|---------|----------|--------|-------|
|                |           |           |         |          | REF.   | kg/ud |
| SV 100 Support | 1         | 50        | 100     | 120      | 2/1062 | 0,10  |
| SV 150 Support | 1         | 40        | 150     | 120      | 2/1063 | 0,13  |
| SV 200 Support | 1         | 42        | 200     | 110      | 2/1064 | 0,19  |
| SV 300 Support | 1         | 60        | 300     | 90       | 2/1065 | 0,25  |

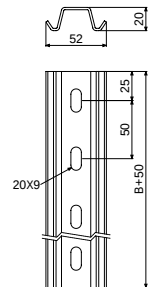


For more technical information, please consult page 211.

## SVO SUPPORT I304



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | I304   |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud |
| SVO 150 Support | 1         | 10        | 150     | 270      | 2/6285 | 0,24  |
| SVO 200 Support | 1         | 10        | 200     | 220      | 2/1087 | 0,30  |
| SVO 250 Support | 1         | 10        | 250     | 240      | 2/1088 | 0,27  |
| SVO 300 Support | 1         | 10        | 300     | 200      | 2/1089 | 0,32  |
| SVO 350 Support | 1         | 10        | 350     | 180      | 2/1090 | 0,36  |
| SVO 400 Support | 1         | 10        | 400     | 160      | 2/6286 | 0,41  |
| SVO 500 Support | 1         | 10        | 500     | 130      | 2/6287 | 0,50  |
| SVO 600 Support | 1         | 10        | 600     | 110      | 2/6288 | 0,58  |



To mount the SVO support to ceiling, 2 VR-8 reference 2/3397 and 4 nuts reference 0/0338 are needed (product packed in bags of 100).

For more technical information, please consult page 211.

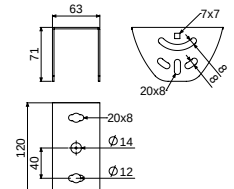
## WALL BRACKET I304



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | I304   |       |
|--------------|-----------|-----------|--------|-------|
|              |           |           | REF.   | kg/ud |
| Wall Bracket | 1         | 40        | 2/1121 | 0,30  |

For the assembly with wall bracket, 4 B1 bolt sets with reference 2/4925 in I304 are needed (product packed in bags of 100).

For more technical information, please consult page 211.



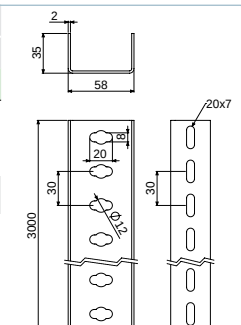
## PC I304



| DESCRIPTION | UVM<br>m | UVE<br>m | I304   |      |
|-------------|----------|----------|--------|------|
|             |          |          | REF.   | kg/m |
| PC Profile  | 3        | 18       | 2/5701 | 1,84 |

For the assembly with wall bracket, 4 B1 bolt sets with reference 2/4925 in I304 are needed (product packed in bags of 100).

For more technical information, please consult page 211.







SCM



## BASORTRAY AL

U with thickness of 2 mm ..... Page 110

U with thickness of 2.5 m..... Page 110

## BASORTRAY AL6063 T6

F ..... Page 111

U ..... Page 111

- The solutions which BASOR present in Aluminium are ideal for petrochemical industries, thanks to their great resistance to chemical and atmospheric corrosion.

# ALUMINIUM



## U H30 e2 PERFORATED HIGH LOAD CABLE TRAY

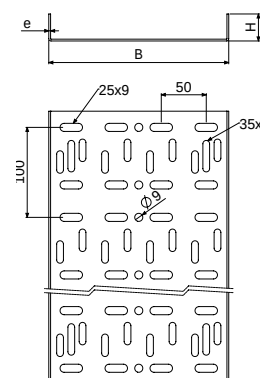


L = 3 m

| DESCRIPTION              | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL     |      |
|--------------------------|----------|----------|---------|---------|---------|--------|------|
|                          |          |          |         |         |         | REF.   | kg/m |
| B/P U 50x30x2 ALUMINIUM  | 3        | 3        | 50      | 30      | 2       | 2/0622 | 0,59 |
| B/P U 100x30x2 ALUMINIUM | 3        | 3        | 100     | 30      | 2       | 2/0623 | 0,86 |
| B/P U 150x30x2 ALUMINIUM | 3        | 3        | 150     | 30      | 2       | 2/0624 | 1,13 |
| B/P U 200x30x2 ALUMINIUM | 3        | 3        | 200     | 30      | 2       | 2/0625 | 1,40 |
| B/P U 300x30x2 ALUMINIUM | 3        | 3        | 300     | 30      | 2       | 2/0626 | 1,94 |

This product is manufactured under order.

For additional information, please contact our commercial department.



## U H50 e2 PERFORATED HIGH LOAD CABLE TRAY

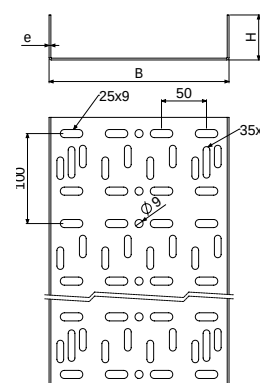


L = 3 m

| DESCRIPTION              | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL     |      |
|--------------------------|----------|----------|---------|---------|---------|--------|------|
|                          |          |          |         |         |         | REF.   | kg/m |
| B/P U 50x50x2 ALUMINIUM  | 3        | 3        | 50      | 50      | 2       | 2/0630 | 0,81 |
| B/P U 100x50x2 ALUMINIUM | 3        | 3        | 100     | 50      | 2       | 2/0631 | 1,08 |
| B/P U 150x50x2 ALUMINIUM | 3        | 3        | 150     | 50      | 2       | 2/0632 | 1,35 |
| B/P U 200x50x2 ALUMINIUM | 3        | 3        | 200     | 50      | 2       | 2/0633 | 1,62 |
| B/P U 300x50x2 ALUMINIUM | 3        | 3        | 300     | 50      | 2       | 2/0634 | 2,16 |
| B/P U 400x50x2 ALUMINIUM | 3        | 3        | 400     | 50      | 2       | 2/0635 | 2,70 |
| B/P U 500x50x2 ALUMINIUM | 3        | 3        | 500     | 50      | 2       | 2/0636 | 3,24 |
| B/P U 600x50x2 ALUMINIUM | 3        | 3        | 600     | 50      | 2       | 2/0637 | 3,78 |

This product is manufactured under order.

For additional information, please contact our commercial department.



## U H60 e2 PERFORATED HIGH LOAD CABLE TRAY

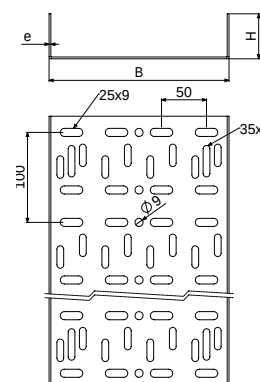


L = 3 m

| DESCRIPTION              | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL      |      |
|--------------------------|----------|----------|---------|---------|---------|---------|------|
|                          |          |          |         |         |         | REF.    | kg/m |
| B/P U 50x60x2 ALUMINIUM  | 3        | 3        | 50      | 60      | 2       | 2/06414 | 0,93 |
| B/P U 100x60x2 ALUMINIUM | 3        | 3        | 100     | 60      | 2       | 2/0638  | 1,19 |
| B/P U 150x60x2 ALUMINIUM | 3        | 3        | 150     | 60      | 2       | 2/0639  | 1,46 |
| B/P U 200x60x2 ALUMINIUM | 3        | 3        | 200     | 60      | 2       | 2/0640  | 1,73 |
| B/P U 300x60x2 ALUMINIUM | 3        | 3        | 300     | 60      | 2       | 2/0641  | 2,27 |
| B/P U 400x60x2 ALUMINIUM | 3        | 3        | 400     | 60      | 2       | 2/0642  | 2,81 |
| B/P U 500x60x2 ALUMINIUM | 3        | 3        | 500     | 60      | 2       | 2/0643  | 3,35 |
| B/P U 600x60x2 ALUMINIUM | 3        | 3        | 600     | 60      | 2       | 2/0644  | 3,89 |

This product is manufactured under order.

For additional information, please contact our commercial department.



## U H30 e2.5 PERFORATED HIGH LOAD CABLE TRAY

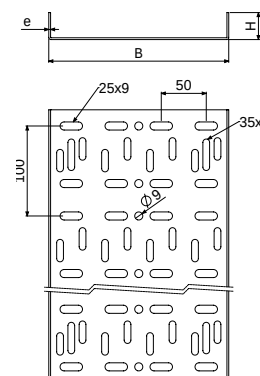


L = 3 m

| DESCRIPTION                | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL     |      |
|----------------------------|----------|----------|---------|---------|---------|--------|------|
|                            |          |          |         |         |         | REF.   | kg/m |
| B/P U 50x30x2,5 ALUMINIUM  | 3        | 3        | 50      | 30      | 2,5     | 2/0712 | 0,74 |
| B/P U 100x30x2,5 ALUMINIUM | 3        | 3        | 100     | 30      | 2,5     | 2/0713 | 1,08 |
| B/P U 150x30x2,5 ALUMINIUM | 3        | 3        | 150     | 30      | 2,5     | 2/0714 | 1,42 |
| B/P U 200x30x2,5 ALUMINIUM | 3        | 3        | 200     | 30      | 2,5     | 2/0715 | 1,76 |
| B/P U 300x30x2,5 ALUMINIUM | 3        | 3        | 300     | 30      | 2,5     | 2/0716 | 2,43 |

This product is manufactured under order.

For additional information, please contact our commercial department.



### U H50 e2 ,5 PERFORATED HIGH LOAD CABLE TRAY

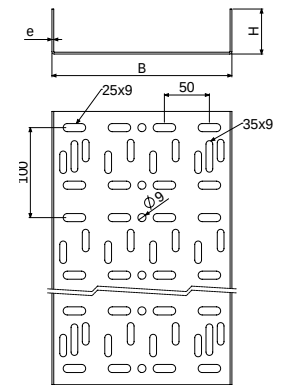


L = 3 m

| DESCRIPTION                | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL     |      |
|----------------------------|----------|----------|---------|---------|---------|--------|------|
|                            |          |          |         |         |         | REF.   | kg/m |
| B/P U 50x50x2,5 ALUMINIUM  | 3        | 3        | 50      | 50      | 2,5     | 2/0720 | 1,01 |
| B/P U 100x50x2,5 ALUMINIUM | 3        | 3        | 100     | 50      | 2,5     | 2/0721 | 1,35 |
| B/P U 150x50x2,5 ALUMINIUM | 3        | 3        | 150     | 50      | 2,5     | 2/0722 | 1,69 |
| B/P U 200x50x2,5 ALUMINIUM | 3        | 3        | 200     | 50      | 2,5     | 2/0723 | 2,03 |
| B/P U 300x50x2,5 ALUMINIUM | 3        | 3        | 300     | 50      | 2,5     | 2/0724 | 2,70 |
| B/P U 400x50x2,5 ALUMINIUM | 3        | 3        | 400     | 50      | 2,5     | 2/0725 | 3,38 |
| B/P U 500x50x2,5 ALUMINIUM | 3        | 3        | 500     | 50      | 2,5     | 2/0726 | 4,05 |
| B/P U 600x50x2,5 ALUMINIUM | 3        | 3        | 600     | 50      | 2,5     | 2/0727 | 4,73 |

This product is manufactured under order.

For additional information, please contact our commercial department.



### U H60 e2 ,5 PERFORATED HIGH LOAD CABLE TRAY

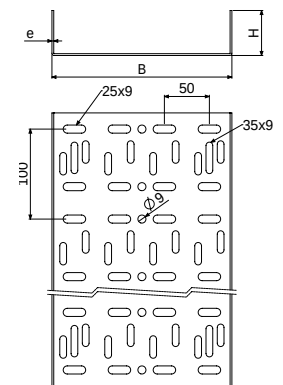


L = 3 m

| DESCRIPTION                | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL     |      |
|----------------------------|----------|----------|---------|---------|---------|--------|------|
|                            |          |          |         |         |         | REF.   | kg/m |
| B/P U 50x60x2,5 ALUMINIUM  | 3        | 3        | 50      | 60      | 2,5     | 2/6261 | 1,17 |
| B/P U 100x60x2,5 ALUMINIUM | 3        | 3        | 100     | 60      | 2,5     | 2/0728 | 1,49 |
| B/P U 150x60x2,5 ALUMINIUM | 3        | 3        | 150     | 60      | 2,5     | 2/0729 | 1,83 |
| B/P U 200x60x2,5 ALUMINIUM | 3        | 3        | 200     | 60      | 2,5     | 2/0730 | 2,16 |
| B/P U 300x60x2,5 ALUMINIUM | 3        | 3        | 300     | 60      | 2,5     | 2/0731 | 2,84 |
| B/P U 400x60x2,5 ALUMINIUM | 3        | 3        | 400     | 60      | 2,5     | 2/0732 | 3,51 |
| B/P U 500x60x2,5 ALUMINIUM | 3        | 3        | 500     | 60      | 2,5     | 2/0733 | 4,19 |
| B/P U 600x60x2,5 ALUMINIUM | 3        | 3        | 600     | 60      | 2,5     | 2/0734 | 4,86 |

This product is manufactured under order.

For additional information, please contact our commercial department.



### F H100 CABLE LADDER

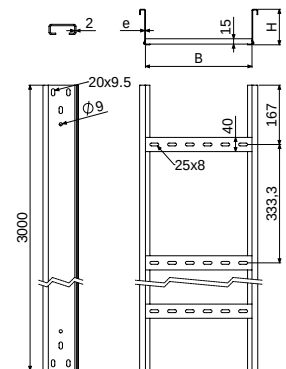


L = 3 m

| DESCRIPTION               | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL 6063 T6 |      |
|---------------------------|----------|----------|---------|---------|---------|------------|------|
|                           |          |          |         |         |         | REF.       | kg/m |
| B/ESC F 100x100x2 AL 6063 | 3        | 3        | 100     | 100     | 2       | 2/4523     | 1,63 |
| B/ESC F 150x100x2 AL 6063 | 3        | 3        | 150     | 100     | 2       | 2/4524     | 1,69 |
| B/ESC F 200x100x2 AL 6063 | 3        | 3        | 200     | 100     | 2       | 2/5960     | 1,75 |
| B/ESC F 300x100x2 AL 6063 | 3        | 3        | 300     | 100     | 2       | 2/4525     | 1,87 |

This product is manufactured under order.

For additional information, please contact our commercial department.



### U H100 CABLE LADDER

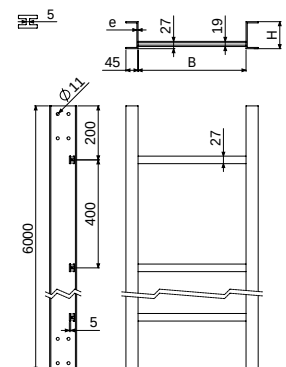


L = 6 m

| DESCRIPTION             | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | AL 6063 T6 |      |
|-------------------------|----------|----------|---------|---------|---------|------------|------|
|                         |          |          |         |         |         | REF.       | kg/m |
| B/ESC U 100x100 AL 6063 | 6        | 6        | 100     | 100     | 4,5     | 2/6352     | 4,61 |
| B/ESC U 200x100 AL 6063 | 6        | 6        | 200     | 100     | 4,5     | 2/4434     | 4,83 |
| B/ESC U 300x100 AL 6063 | 6        | 6        | 300     | 100     | 4,5     | 2/4433     | 5,05 |
| B/ESC U 400x100 AL 6063 | 6        | 6        | 400     | 100     | 4,5     | 2/4502     | 5,26 |
| B/ESC U 600x100 AL 6063 | 6        | 6        | 600     | 100     | 4,5     | 2/4432     | 5,70 |

This product is manufactured under order.

For additional information, please contact our commercial department.

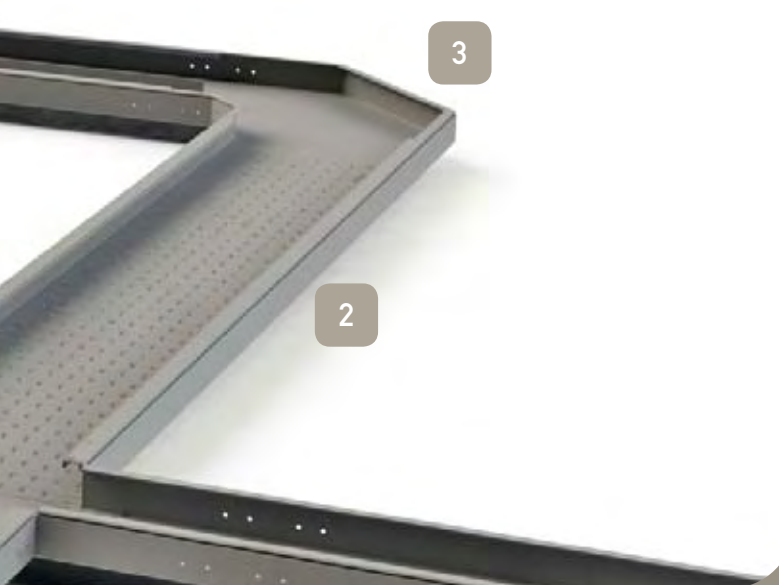




- 1. BPI Non-perforated cable tray
- 2. BPI Perforated cable tray
- 3. BPI Horizontal bend
- 4. BPI Vertical inside
- 5. BPI Vertical outside
- 6. SHG Support
- 7. Adjustable joint
- 8. Angle joint
- 9. PDBPI Intersection piece
- 10. SVO + VR8 Support

# SCP





## BASORPLAST

### BASORPLAST BPB

PVC domestic minitrunkings ..... Page 114

### BASORPLAST BPI

Industrial PVC cable trays and trunkings ..... Page 116

BASORPLAST Assemblies ..... Page 123

## BASORSUPPORT SCP

SCP Supports ..... Page 124

- The BASORPLAST cable tray family is manufactured in extruded PVC, using raw materials of the best quality. BASORPLAST includes two types of trunkings devoted both for domestic and industrial use.
- These cable trays can be used in all kinds of interior facilities, as they behave perfectly under any atmospheric conditions and are very light in weight.

# BASORPLAST

**PVC**



The BASORPLAST BPB family is the range of minitrunkings for small superficial systems. They are mainly used in the domestic sector.

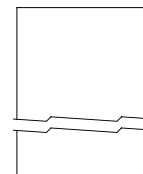
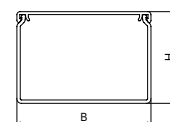
| B(mm) | USEFUL AREA (cm <sup>2</sup> ) |     |     |     |
|-------|--------------------------------|-----|-----|-----|
|       | H16                            | H25 | H40 | H60 |
| 25    | 3                              | 5   | -   | -   |
| 40    | 5                              | -   | 14  | -   |
| 60    | -                              | -   | 21  | 32  |
| 100   | -                              | -   | -   | 52  |

### BPB PVC DOMESTIC MINITRUNKINGS



L = 2 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | PVC    |      |
|-------------|----------|----------|---------|---------|--------|------|
|             |          |          |         |         | REF.   | kg/m |
| BPB 16X25   | 2        | 84       | 25      | 16      | 2/1126 | 0,18 |
| BPB 25X25   | 2        | 48       | 25      | 25      | 2/1128 | 0,20 |
| BPB 40X40   | 2        | 24       | 40      | 40      | 2/1129 | 0,37 |
| BPB 40X60   | 2        | 16       | 60      | 40      | 2/1130 | 0,51 |
| BPB 60X60   | 2        | 12       | 60      | 60      | 2/5835 | 0,60 |

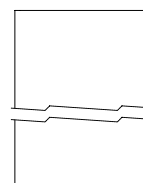
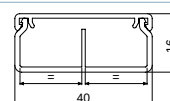


### BPB PVC DOMESTIC DOUBLE MINITRUNKING

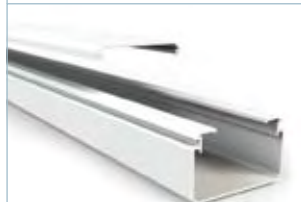


L = 2 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | PVC    |      |
|-------------|----------|----------|---------|---------|--------|------|
|             |          |          |         |         | REF.   | kg/m |
| BPB 16X40/2 | 2        | 56       | 40      | 16      | 2/1127 | 0,23 |

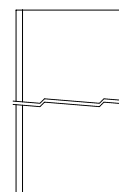
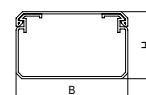


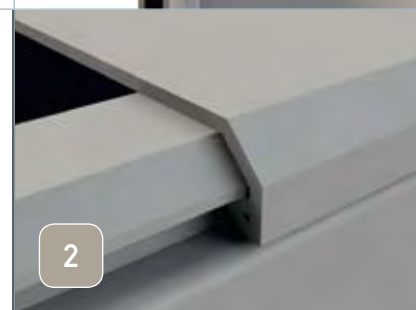
### BPB 60x100 PVC DOMESTIC MINITRUNKING



L = 2 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | PVC    |      |
|-------------|----------|----------|---------|---------|--------|------|
|             |          |          |         |         | REF.   | kg/m |
| BPB 60X100  | 2        | 16       | 100     | 60      | 2/6435 | 0,77 |





Non-flammable component, with M1 fire rating according to Standard UNE 23727:1990.

Electrical safety, non-conductive and without continuity characteristic cable trays.

**1** Alveolar structure (BASE  $\geq$  200 mm)

- **Greater relationship between resistance to flexure / weight.**
- **Greater breaking tension.**
- **Less weight → Easier to assemble, transport and manipulate.**

**2** Perfectly self-assembled covers.

- **Quick and easy to assemble.**

**3** Inside flanges which increase resistance to flexion.

| B (mm) | USEFUL AREA (cm <sup>2</sup> ) |      |
|--------|--------------------------------|------|
|        | H60                            | H100 |
| 100    | 52                             | -    |
| 150    | 80                             | -    |
| 200    | 93                             | 169  |
| 300    | 143                            | 259  |
| 400    | -                              | 349  |
| 600    | -                              | 529  |

## H60 PVC PERFORATED CABLE TRAY



L = 3 m  
B 100/150

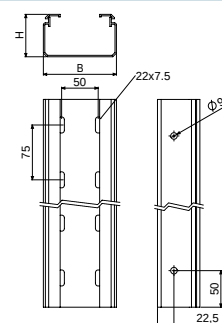


L = 3 m  
B 200/300

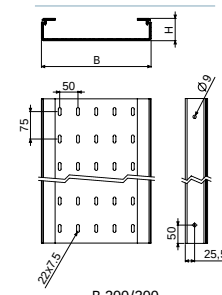
| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | PVC    |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m |
| B/P BPI 100X60 | 3        | 24       | 100     | 60      | 23                  | 2/1162 | 0,73 |
| B/P BPI 150X60 | 3        | 24       | 150     | 60      | 28                  | 2/1163 | 0,98 |
| B/P BPI 200X60 | 3        | 12       | 200     | 60      | 39                  | 2/1164 | 1,11 |
| B/P BPI 300X60 | 3        | 12       | 300     | 60      | 45                  | 2/1165 | 1,62 |

Each stretch requires two H60 couplers, with reference number 2/2061 and four bolt sets with reference number 2/6467 (products packed in bags containing 50 units).

For more technical information, please consult page 211.



B 100/150



B 200/300

## H60 PVC NON-PERFORATED CABLE TRAY



L = 3 m  
B 100/150

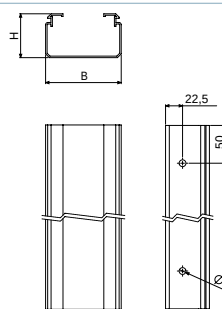


L = 3 m  
B 200/300

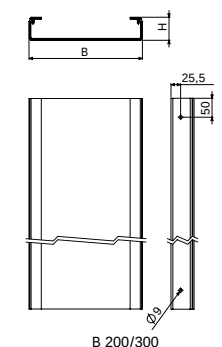
| DESCRIPTION    | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | PVC    |      |
|----------------|----------|----------|---------|---------|---------------------|--------|------|
|                |          |          |         |         |                     | REF.   | kg/m |
| B/C BPI 100X60 | 3        | 24       | 100     | 60      | 23                  | 2/1156 | 0,77 |
| B/C BPI 150X60 | 3        | 24       | 150     | 60      | 28                  | 2/1157 | 1,03 |
| B/C BPI 200X60 | 3        | 12       | 200     | 60      | 39                  | 2/1158 | 1,17 |
| B/C BPI 300X60 | 3        | 12       | 300     | 60      | 45                  | 2/1159 | 1,70 |

To assemble the cable tray, it's necessary to use couplers. Each stretch requires two H60 couplers, with reference number 2/2061 and four bolt sets with reference number 2/6467 (products packed in bags containing 50 units).

For more technical information, please consult page 211.



B 100/150



B 200/300

## H100 PVC PERFORATED CABLE TRAY

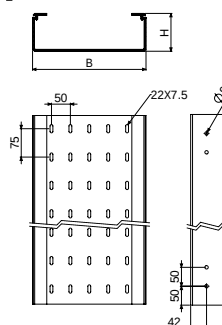


L = 3 m

| DESCRIPTION     | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | PVC    |      |
|-----------------|----------|----------|---------|---------|---------------------|--------|------|
|                 |          |          |         |         |                     | REF.   | kg/m |
| B/P BPI 200x100 | 3        | 12       | 200     | 100     | 79                  | 2/4898 | 1,46 |
| B/P BPI 300x100 | 3        | 6        | 300     | 100     | 92                  | 2/4964 | 1,84 |
| B/P BPI 400x100 | 3        | 6        | 400     | 100     | 101                 | 2/1166 | 2,50 |
| B/P BPI 600x100 | 3        | 6        | 600     | 100     | 118                 | 2/1167 | 4,27 |

To assemble the cable tray, it's necessary to use couplers. Each stretch requires two H100 couplers, with reference number 2/2062 and eight bolt sets with reference number 2/6467 (products packed in bags containing 50 units).

For more technical information, please consult page 211.





## H100 PVC NON-PERFORATED CABLE TRAY

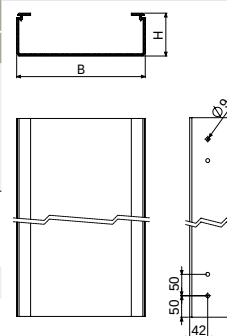


L = 3 m

| DESCRIPTION     | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | d=1,5<br>SWL (kg/m) | PVC    |      |
|-----------------|----------|----------|---------|---------|---------------------|--------|------|
|                 |          |          |         |         |                     | REF.   | kg/m |
| B/C BPI 200x100 | 3        | 12       | 200     | 100     | 79                  | 2/5091 | 1,54 |
| B/C BPI 300x100 | 3        | 6        | 300     | 100     | 92                  | 2/5092 | 1,94 |
| B/C BPI 400x100 | 3        | 6        | 400     | 100     | 101                 | 2/1160 | 2,64 |
| B/C BPI 600x100 | 3        | 6        | 600     | 100     | 118                 | 2/1161 | 4,17 |

To assemble the cable tray, it's necessary to use couplers. Each stretch requires two H100 couplers, with reference number 2/2062 and 8 bolt sets with reference number 2/6467 (products packed in bags containing 50 units).

For more technical information, please consult page 211.



## BPI PVC COVER

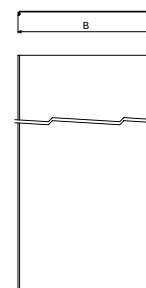


L = 3 m

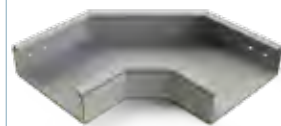
| DESCRIPTION   | UVM<br>m | UVE<br>m | B<br>mm | PVC    |      |
|---------------|----------|----------|---------|--------|------|
|               |          |          |         | REF.   | kg/m |
| COVER BPI 100 | 3        | 24       | 100     | 2/1185 | 0,37 |
| COVER BPI 150 | 3        | 24       | 150     | 2/1186 | 0,50 |
| COVER BPI 200 | 3        | 24       | 200     | 2/1187 | 0,77 |
| COVER BPI 300 | 3        | 18       | 300     | 2/1188 | 1,10 |
| COVER BPI 400 | 3        | 12       | 400     | 2/1189 | 1,53 |
| COVER BPI 600 | 3        | 12       | 600     | 2/1190 | 2,10 |

No accessories required for mounting. Pressure-fixed covers.

The width 600 has alveolar structure.



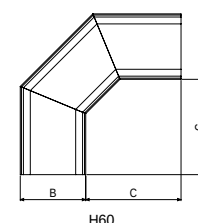
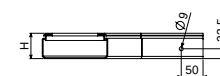
## BPI HORIZONTAL BEND



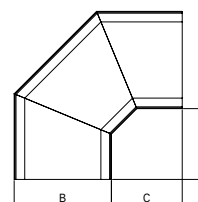
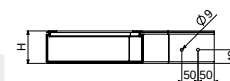
| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | C<br>mm | PVC    |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| CPBPI 100X60  | 1         | 4         | 100     | 60      | 224     | 2/1168 | 0,40  |
| CPBPI 150X60  | 1         | 4         | 150     | 60      | 224     | 2/1169 | 0,54  |
| CPBPI 200X60  | 1         | 4         | 200     | 60      | 218     | 2/1170 | 0,69  |
| CPBPI 300X60  | 1         | 2         | 300     | 60      | 218     | 2/1171 | 1,10  |
| CPBPI 200X100 | 1         | 4         | 200     | 100     | 218     | 2/5188 | 0,80  |
| CPBPI 300X100 | 1         | 2         | 300     | 100     | 218     | 2/5189 | 1,00  |
| CPBPI 400X100 | 1         | 2         | 400     | 100     | 218     | 2/1172 | 1,90  |
| CPBPI 600X100 | 1         | 2         | 600     | 100     | 241     | 2/1173 | 2,53  |

Each stretch requires 2 couplers (ref. 2/2061 for H60 or ref.2/2062 for H100) and 4 (8 for H100) bolt sets with reference number 2/6467 (products packed in bags containing 50 units).

The accessories have the same structure than their model corresponding.



H60

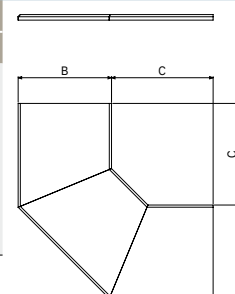


H100

## COVER BPI HORIZONTAL BEND



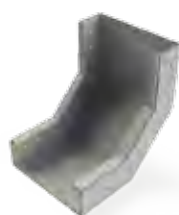
| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | C<br>mm | GS     |       |
|-----------------|-----------|-----------|---------|---------|--------|-------|
|                 |           |           |         |         | REF.   | kg/ud |
| COVER CPBPI 100 | 1         | 4         | 100     | 219     | 2/5194 | 0,18  |
| COVER CPBPI 150 | 1         | 4         | 150     | 217     | 2/5195 | 0,26  |
| COVER CPBPI 200 | 1         | 4         | 200     | 218     | 2/5198 | 0,43  |
| COVER CPBPI 300 | 1         | 4         | 300     | 217     | 2/5199 | 0,71  |
| COVER CPBPI 400 | 1         | 4         | 400     | 215     | 2/5200 | 1,12  |
| COVER CPBPI 600 | 1         | 4         | 600     | 215     | 2/5201 | 1,94  |



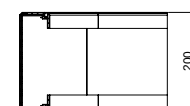
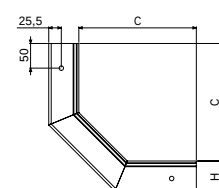
No accessories required for mounting. Pressure-fixed covers.

The accessories have the same structure than their model corresponding.

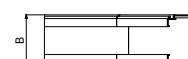
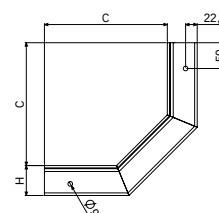
## BPI VERTICAL INSIDE



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | C<br>mm | PVC    |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| CCBPI 100X60  | 1         | 4         | 100     | 60      | 238     | 2/1174 | 0,39  |
| CCBPI 150X60  | 1         | 4         | 150     | 60      | 238     | 2/1175 | 0,49  |
| CCBPI 200X60  | 1         | 4         | 200     | 60      | 238     | 2/1176 | 0,59  |
| CCBPI 300X60  | 1         | 2         | 300     | 60      | 238     | 2/1177 | 0,81  |
| CCBPI 200X100 | 1         | 4         | 200     | 100     | 274     | 2/5190 | 0,88  |
| CCBPI 300X100 | 1         | 2         | 300     | 100     | 274     | 2/5191 | 1,11  |
| CCBPI 400X100 | 1         | 2         | 400     | 100     | 274     | 2/1178 | 1,48  |
| CCBPI 600X100 | 1         | 2         | 600     | 100     | 274     | 2/1179 | 2,00  |



H60

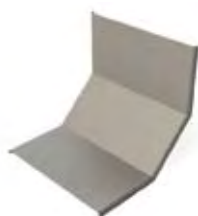


H100

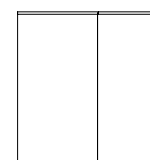
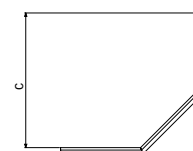
Each stretch requires 2 couplers (ref. 2/2061 for H60 or ref.2/2062 for H100) and 4 (8 for H100) bolt sets with reference number 2/6467 (products packed in bags containing 50 units).

The accessories have the same structure than their model corresponding.

## COVER BPI VERTICAL INSIDE



| DESCRIPTION         | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | C<br>mm | PVC    |       |
|---------------------|-----------|-----------|---------|---------|---------|--------|-------|
|                     |           |           |         |         |         | REF.   | kg/ud |
| COVER CCBPI 100X60  | 1         | 4         | 100     | 60      | 224     | 2/5202 | 0,18  |
| COVER CCBPI 150X60  | 1         | 4         | 150     | 60      | 224     | 2/5203 | 0,24  |
| COVER CCBPI 200X60  | 1         | 4         | 200     | 60      | 224     | 2/5204 | 0,37  |
| COVER CCBPI 300X60  | 1         | 4         | 300     | 60      | 224     | 2/5205 | 0,52  |
| COVER CCBPI 200X100 | 1         | 4         | 200     | 100     | 261     | 2/5207 | 0,56  |
| COVER CCBPI 300X100 | 1         | 4         | 300     | 100     | 261     | 2/5208 | 0,61  |
| COVER CCBPI 400X100 | 1         | 4         | 400     | 100     | 261     | 2/5209 | 0,87  |
| COVER CCBPI 600X100 | 1         | 4         | 600     | 100     | 261     | 2/5210 | 1,04  |



No accessories required for mounting. Pressure-fixed covers.

The accessories have the same structure than their model corresponding.

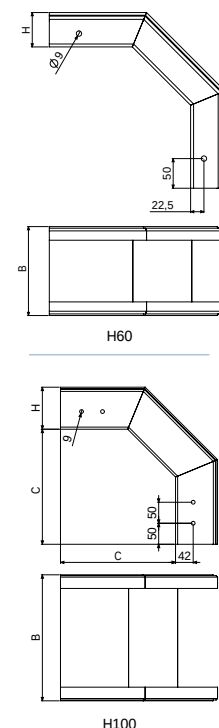
## BPI VERTICAL OUTSIDE



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | C<br>mm | PVC    |       |
|---------------|-----------|-----------|---------|---------|---------|--------|-------|
|               |           |           |         |         |         | REF.   | kg/ud |
| CXBPI 100X60  | 1         | 4         | 100     | 60      | 238     | 2/1180 | 0,39  |
| CXBPI 150X60  | 1         | 4         | 150     | 60      | 238     | 2/1181 | 0,49  |
| CXBPI 200X60  | 1         | 4         | 200     | 60      | 243     | 2/1182 | 0,59  |
| CXBPI 300X60  | 1         | 2         | 300     | 60      | 243     | 2/1183 | 0,81  |
| CXBPI 200X100 | 1         | 4         | 200     | 100     | 279     | 2/5192 | 0,88  |
| CXBPI 300X100 | 1         | 2         | 300     | 100     | 279     | 2/5193 | 1,11  |
| CXBPI 400X100 | 1         | 2         | 400     | 100     | 279     | 2/1184 | 1,48  |
| CXBPI 600X100 | 1         | 2         | 600     | 100     | 279     | 2/4707 | 2,00  |

Each stretch requires 2 couplers (ref. 2/2061 for H60 or ref.2/2062 for H100) and 4 (8 for H100) bolt sets with reference number 2/6467 (products packed in bags containing 50 units).

The accessories have the same structure than their model corresponding.



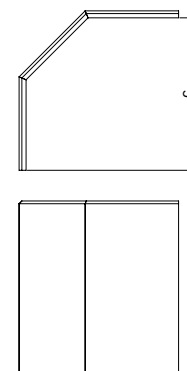
## COVER BPI VERTICAL OUTSIDE



| DESCRIPTION         | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | C<br>mm | PVC    |       |
|---------------------|-----------|-----------|---------|---------|---------|--------|-------|
|                     |           |           |         |         |         | REF.   | kg/ud |
| COVER CXBPI 100X60  | 1         | 4         | 100     | 60      | 234     | 2/5211 | 0,22  |
| COVER CXBPI 150X60  | 1         | 4         | 150     | 60      | 234     | 2/5212 | 0,30  |
| COVER CXBPI 200X60  | 1         | 4         | 200     | 60      | 234     | 2/5213 | 0,49  |
| COVER CXBPI 300X60  | 1         | 4         | 300     | 60      | 234     | 2/5214 | 0,65  |
| COVER CXBPI 200X100 | 1         | 4         | 200     | 100     | 271     | 2/5215 | 0,75  |
| COVER CXBPI 300X100 | 1         | 4         | 300     | 100     | 271     | 2/5216 | 0,82  |
| COVER CXBPI 400X100 | 1         | 4         | 400     | 100     | 271     | 2/5217 | 1,17  |
| COVER CXBPI 600X100 | 1         | 4         | 600     | 100     | 271     | 2/5218 | 1,39  |

No accessories required for mounting. Pressure-fixed covers.

The accessories have the same structure than their model corresponding.

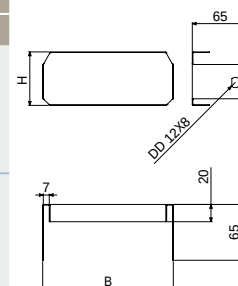


## TFBPI END COVER



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GSE    |       |
|---------------|-----------|-----------|---------|---------|--------|-------|
|               |           |           |         |         | REF.   | kg/ud |
| TFBPI 100X60  | 1         | 1         | 100     | 60      | 2/4395 | 0,09  |
| TFBPI 150X60  | 1         | 1         | 150     | 60      | 2/4800 | 0,13  |
| TFBPI 200X60  | 1         | 1         | 200     | 60      | 2/4396 | 0,15  |
| TFBPI 300X60  | 1         | 1         | 300     | 60      | 2/4838 | 0,21  |
| TFBPI 200X100 | 1         | 1         | 200     | 100     | 2/5220 | 0,24  |
| TFBPI 300X100 | 1         | 1         | 300     | 100     | 2/5221 | 0,31  |
| TFBPI 400X100 | 1         | 1         | 400     | 100     | 2/5125 | 0,40  |
| TFBPI 600X100 | 1         | 1         | 600     | 100     | 2/5219 | 0,55  |

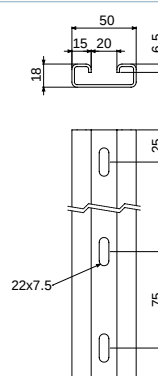
To mount the end cover 2 bolt sets with reference 2/6467 are needed (product packed in bags containing 50 units).



## RA50 BPI PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | PVC    |      |
|-------------|----------|----------|--------|------|
|             |          |          | REF.   | kg/m |
| RA 50       | 2        | 50       | 2/6357 | 0,33 |

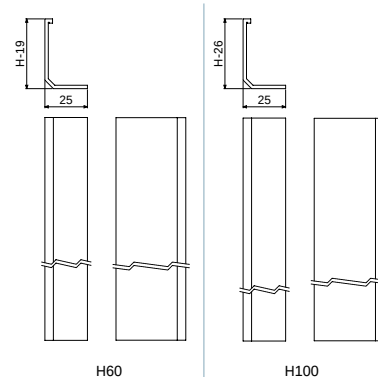


## PSBPI DIVIDER PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | H<br>m | PVC    |      |
|-------------|----------|----------|--------|--------|------|
|             |          |          |        | REF.   | kg/m |
| PS BPI 60   | 3        | 30       | 60     | 2/3522 | 0,22 |
| PS BPI 100  | 3        | 30       | 100    | 2/3523 | 0,38 |

To mount the divider 4 bolt sets with reference 2/6467 are needed for each stretch (product packed in bags containing 50 units).

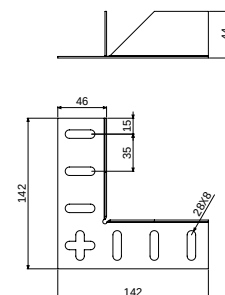


## PDBPI INTERSECTION PIECE



| DESCRIPTION | UVM<br>ud | UVE<br>ud | GSE    |       |
|-------------|-----------|-----------|--------|-------|
|             |           |           | REF.   | kg/ud |
| PDBPI       | 1         | 50        | 2/3521 | 0,18  |

Para montar la derivación es necesario utilizar mínimo 4 tornillos referencia 2/6467 (Product embalado en bolsas de 50) por pieza.



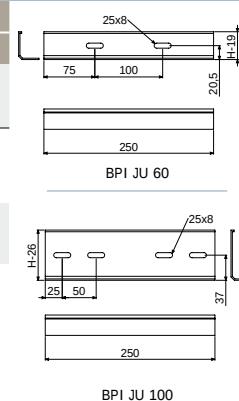
## BPI JOINT PLATE



| DESCRIPTION          | UVM<br>ud | UVE<br>ud | H<br>mm | PVC    |       |
|----------------------|-----------|-----------|---------|--------|-------|
|                      |           |           |         | REF.   | kg/ud |
| BPI Jopint Plate 60  | 1         | 125       | 41      | 2/2061 | 0,05  |
| BPI Jopint Plate 100 | 1         | 75        | 74      | 2/2062 | 0,09  |

To mount the joint H60 2 bolt sets with reference 2/6467 are needed (product packed in bags containing 50 units).

To mount the joint H100 4 bolt sets with reference 2/6467 are needed (product packed in bags containing 50 units).



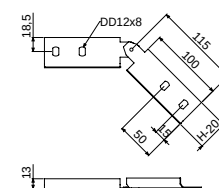
BPI JU 100

## ARTICULATED JOINT

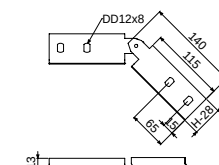


| DESCRIPTION      | UVM<br>ud | UVE<br>ud | H<br>mm | I304   |       |
|------------------|-----------|-----------|---------|--------|-------|
|                  |           |           |         | REF.   | kg/ud |
| UABPI H60 Joint  | 1         | 60        | 60      | 2/5036 | 0,09  |
| UABPI H100 Joint | 1         | 60        | 100     | 2/5037 | 0,16  |

To mount the joint 4 bolt sets with reference 2/6467 are needed (product packed in bags containing 50 units).



UA BPI 60



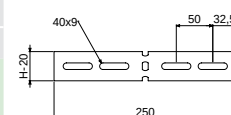
UA BPI 100

## ANGLE JOINT

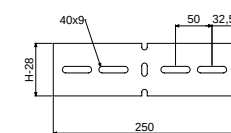


| DESCRIPTION      | UVM<br>ud | UVE<br>ud | H<br>mm | I304   |       |
|------------------|-----------|-----------|---------|--------|-------|
|                  |           |           |         | REF.   | kg/ud |
| UBBPI H60 Joint  | 1         | 60        | 60      | 2/3520 | 0,13  |
| UBBPI H100 Joint | 1         | 60        | 100     | 2/5038 | 0,22  |

To mount the joint 4 bolt sets with reference 2/6467 are needed (product packed in bags containing 50 units).



BPI JUB 60



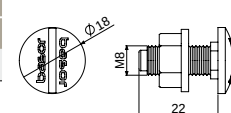
BPI JUB 100

## M8 PVC BOLT



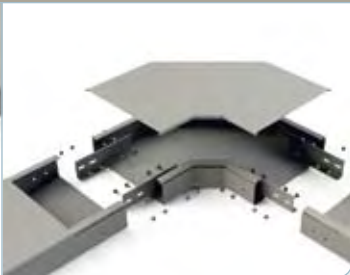
| DESCRIPTION             | UVM<br>ud | UVE<br>ud | PVC    |       |
|-------------------------|-----------|-----------|--------|-------|
|                         |           |           | REF.   | kg/ud |
| PACK 50 M8 PVC BOLT SET | 1         | 1         | 2/6467 | 0,4   |

The M8 PVC bolt set consists of a M8 mushroom head bolt and flange nut with serration, both in PVC.





## BPI MOUNTS

| BPI + COVER                                                                        | JOINT PLATE H60                                                                    | JOINT PLATE H100                                                                   | BPI HORIZONTAL BEND                                                                 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |   |  |  |
|                                                                                    |                                                                                    |                                                                                    |                                                                                     |
| BPI VERTICAL INSIDE                                                                | B/P BPI + SHG                                                                      |                                                                                    |                                                                                     |
|  |  |                                                                                    |                                                                                     |
|                                                                                    | SHG support page 125.                                                              |                                                                                    |                                                                                     |

### SWL (kg) WALL SUPPORT

| Product |                                                                                   | B (mm) horizontal support |     |     |     |     |     |     |     | Page |     |
|---------|-----------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|
|         |                                                                                   | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 |      | 750 |
| SHG     |  | -                         | 90  | 105 | 120 | 130 | -   | -   | -   | -    | 125 |
| SCR     |  | 70                        | 70  | 70  | 70  | 70  | 70  | 70  | 60  | 60   | 125 |

### SWL (kg) CEILING SUPPORT

| Product         |                                                                                     | B (mm) horizontal support |     |     |     |     |     |     |     | Page |     |
|-----------------|-------------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|
|                 |                                                                                     | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 |      | 750 |
| WALL BRACKET+PC |    | 150                       | 120 | 100 | 86  | 67  | 55  | 46  | 40  | -    | 125 |
| SVO             |  | -                         | -   | 270 | 220 | 200 | 160 | 130 | 110 | -    | 126 |

### SWL (kg) WALL-FLOOR SPACER

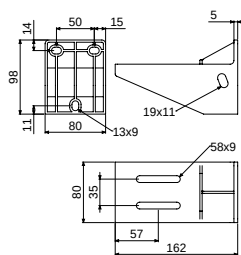
| Product |                                                                                     | B (mm) del soporte horizontal |     |     |     |     |     |     |     | Page |     |
|---------|-------------------------------------------------------------------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|
|         |                                                                                     | 50                            | 100 | 150 | 200 | 300 | 400 | 500 | 600 |      | 750 |
| SV      |  | -                             | 120 | 120 | 110 | 90  | -   | -   | -   | -    | 126 |

## SHG SUPPORT

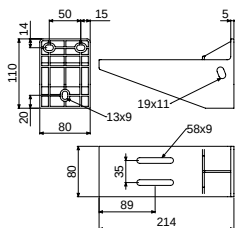


| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | PVC    |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud |
| SHG 100 Support | 1         | 60        | 100     | 90       | 2/6779 | 0,19  |
| SHG 150 Support | 1         | 10        | 150     | 105      | 2/6780 | 0,27  |
| SHG 200 Support | 1         | 10        | 200     | 120      | 2/6781 | 0,34  |
| SHG 300 Support | 1         | 10        | 300     | 130      | 2/6782 | 0,54  |

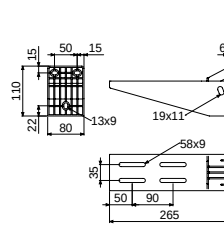
For more technical information, please consult page 211.



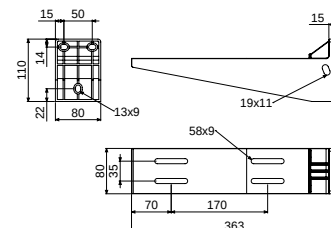
SHG100



SHG150



SHG200



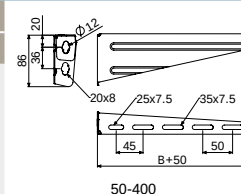
SHG300

## GREY SCR SUPPORT

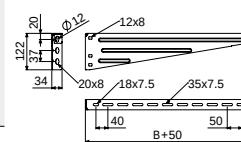


| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GSE    |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud |
| SCR 50 Support  | 1         | 75        | 50      | 70       | 2/0991 | 0,20  |
| SCR 100 Support | 1         | 60        | 100     | 70       | 2/0992 | 0,27  |
| SCR 150 Support | 1         | 10        | 150     | 70       | 2/0993 | 0,33  |
| SCR 200 Support | 1         | 10        | 200     | 70       | 2/0990 | 0,42  |
| SCR 300 Support | 1         | 10        | 300     | 70       | 2/1017 | 0,68  |
| SCR 400 Support | 1         | 10        | 400     | 70       | 2/1018 | 0,85  |
| SCR 500 Support | 1         | 10        | 500     | 70       | 2/6324 | 1,03  |
| SCR 600 Support | 1         | 10        | 600     | 60       | 2/1019 | 1,20  |
| SCR 750 Support | 1         | 5         | 750     | 60       | 2/4687 | 1,81  |

For more technical information, please consult page 211.



50-400



500-750

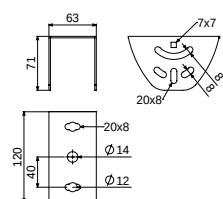
## GREY WALL BRACKET



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | GSE    |       |
|-------------------|-----------|-----------|--------|-------|
|                   |           |           | REF.   | kg/ud |
| GREY WALL BRACKET | 1         | 40        | 2/1120 | 0,39  |

To mount the wall bracket 4 bolt sets with reference 2/4925 in I304 are needed (product packed in bags containing 100 units).

For more technical information, please consult page 211.



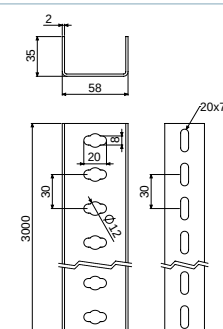
## GREY PC PROFILE



| DESCRIPTION     | UVM<br>m | UVE<br>m | GSE    |      |
|-----------------|----------|----------|--------|------|
|                 |          |          | REF.   | kg/m |
| GREY PC PROFILE | 3        | 18       | 2/0232 | 1,86 |

To mount the the profile with the wall bracket 4 bolt sets with reference 2/4925 in I304 are needed (product packed in bags containing 100 units).

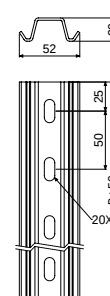
For more technical information, please consult page 211.



## GREY SVO SUPPORT



| DESCRIPTION     | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GSE    |       |
|-----------------|-----------|-----------|---------|----------|--------|-------|
|                 |           |           |         |          | REF.   | kg/ud |
| SVO Support 150 | 1         | 10        | 150     | 300      | 2/6281 | 0,19  |
| SVO Support 200 | 1         | 10        | 200     | 220      | 2/1083 | 0,24  |
| SVO Support 250 | 1         | 10        | 250     | 180      | 2/1084 | 0,39  |
| SVO Support 300 | 1         | 10        | 300     | 200      | 2/1085 | 0,45  |
| SVO Support 350 | 1         | 10        | 350     | 140      | 2/1086 | 0,51  |
| SVO Support 400 | 1         | 10        | 400     | 160      | 2/6282 | 0,57  |
| SVO Support 500 | 1         | 10        | 500     | 130      | 2/6283 | 0,70  |
| SVO Support 600 | 1         | 10        | 600     | 110      | 2/6284 | 0,83  |



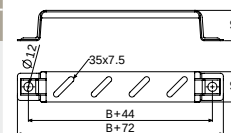
To mount the SVO on ceiling 2 threaded rods VR-8 (ref. 2/3397) and 4 nuts (ref. 0/0338) are needed (product packed in bags containing 100 units).

For more technical information, please consult page 211.

## GREY SV SUPPORT

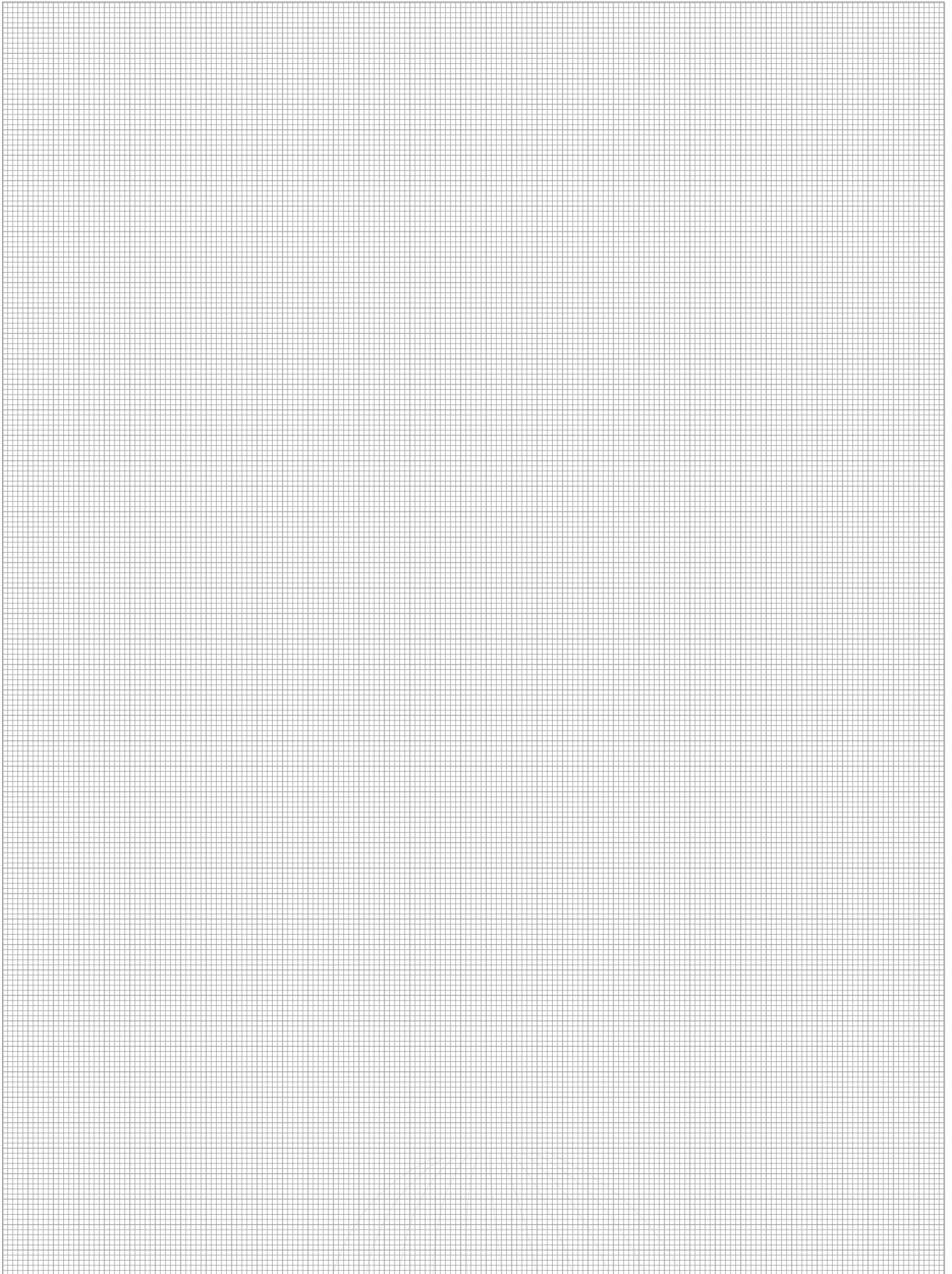


| DESCRIPTION    | UVM<br>ud | UVE<br>ud | B<br>mm | SWL (kg) | GSE    |       |
|----------------|-----------|-----------|---------|----------|--------|-------|
|                |           |           |         |          | REF.   | kg/ud |
| SV Support 100 | 1         | 50        | 100     | 120      | 2/1058 | 0,14  |
| SV Support 150 | 1         | 40        | 150     | 120      | 2/1059 | 0,18  |
| SV Support 200 | 1         | 42        | 200     | 110      | 2/1060 | 0,21  |
| SV Support 300 | 1         | 60        | 300     | 90       | 2/1061 | 0,28  |

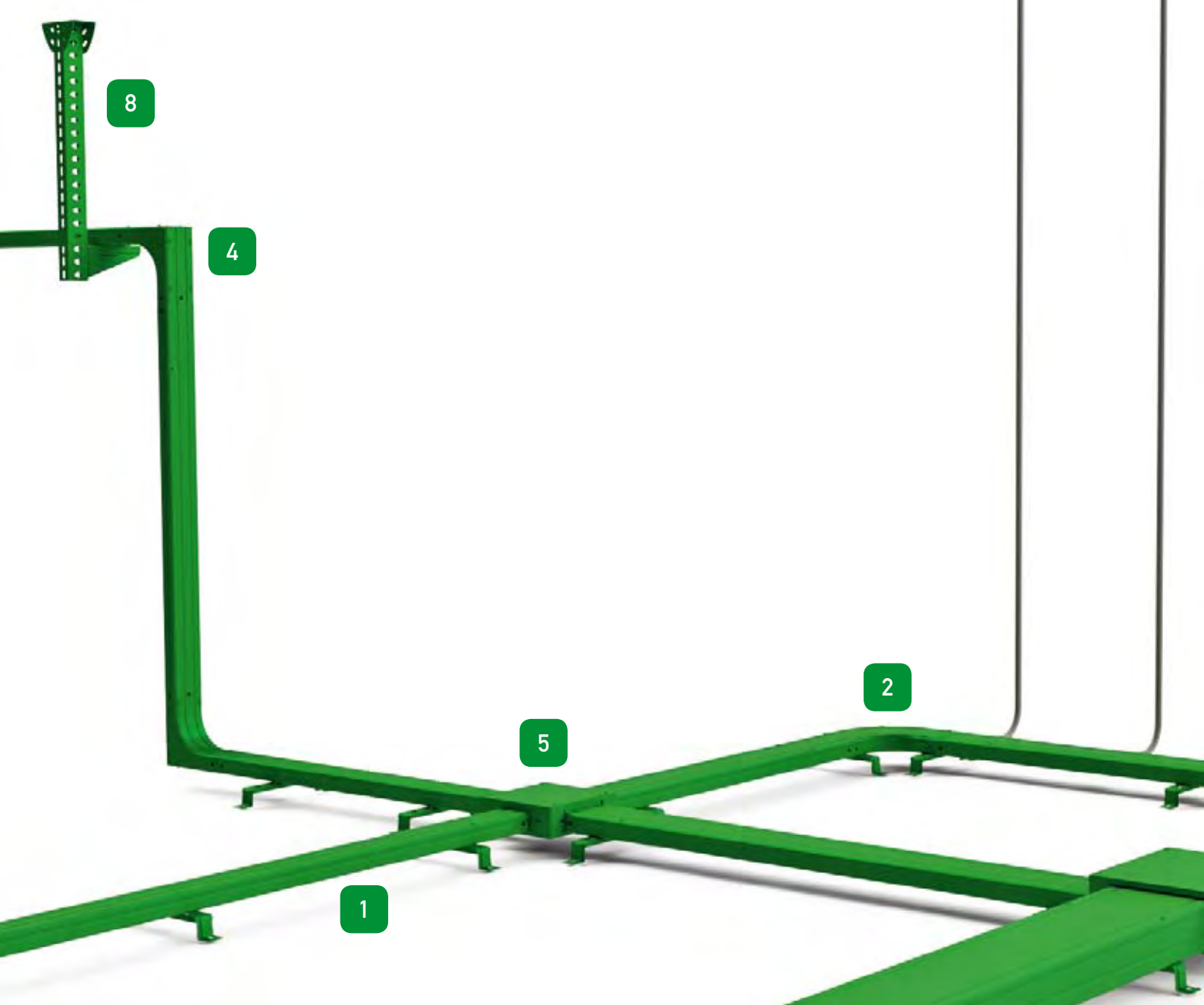


To mount the SV 2 bolt sets with reference 2/4925 in I304 are needed (product packed in bags containing 100 units).

For more technical information, please consult page 211.

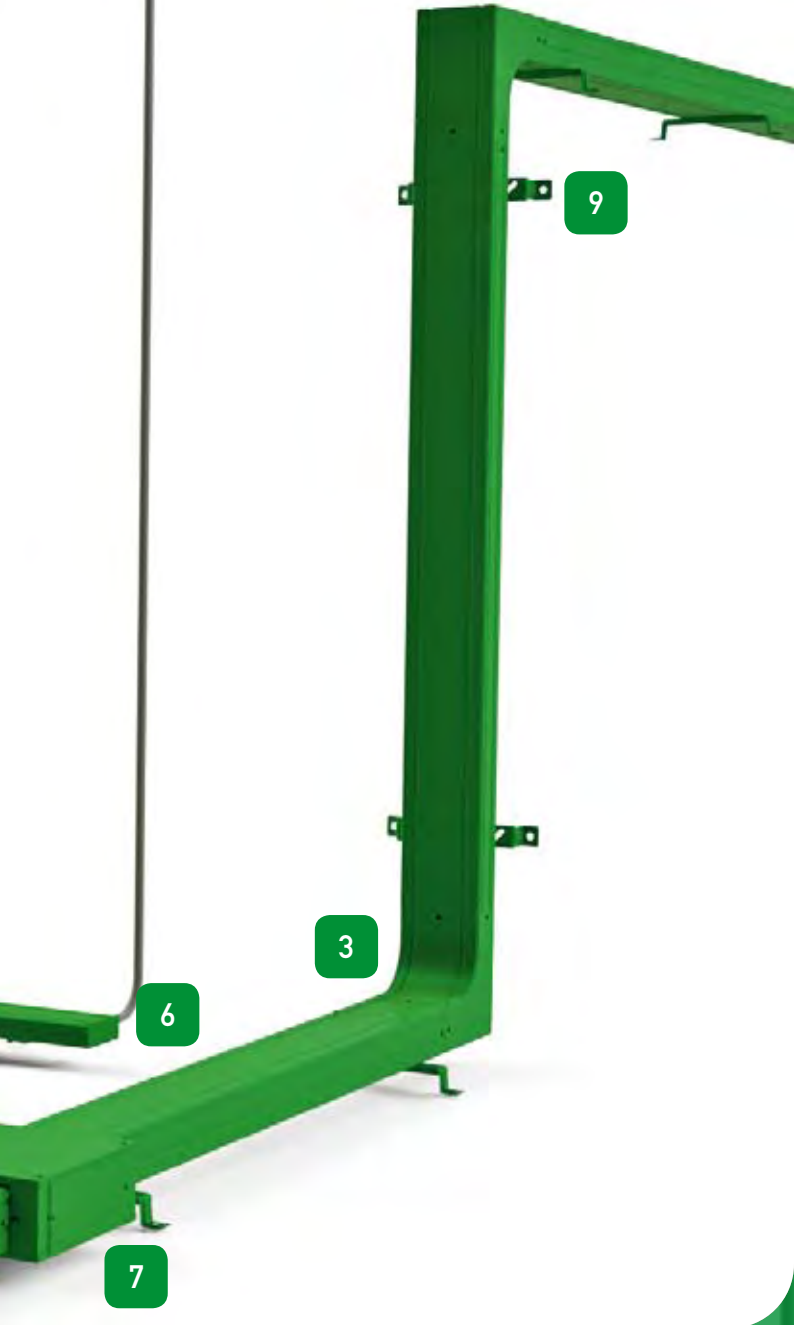






- 1. BASORCANAL CT
- 2. CPT Horizontal bend
- 3. CCCT as a vertical inside
- 4. CCCT as a vertical outside
- 5. CDT Junction box
- 6. TF end cover
- 7. TC Solid cover
- 8. WALL BRACKET+PC+SCR (Green GSE)
- 9. SV Support (Green)

SCE



## BASORCANAL CT

BASORCANALCT.....Page 130

BASORCANALASSEMBLIES.....Page 135

## BASORSUPPORT SCE

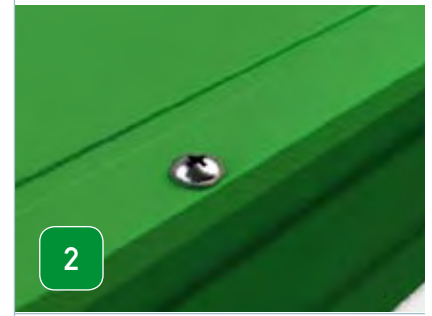
SCE SUPPORTS.....Page 136

- BASORCANAL is the ideal solution for those places where there is a need to install completely sealed cable trays capable of maintaining electrical cables isolated in order to avoid accidents from happening. These cable trays are covered in green Epoxy-polyester resin.
- BASOR ELECTRIC is the only company in Spain which has an IP65\* certificate, which is obtained thanks to the Buprene joint which allows this cable tray to be completely sealed.
- BASOR ELECTRIC recommends installing these cable trays in industries which deal with wood, food, ceramics, paper, cardboard, paint, etc. due to environmental reasons or to the danger posed by the products manipulated therein. These cable trays are also installed inside big machinery.

\*IP65 Certificate: Complete protection against entry of dust and protection from a low pressure jet of water in any direction.

# BASORCANAL

**GSE**



Cable tray system with an IP65 degree of protection if a buprene joint is used in all joints elements. Should the system be assembled without buprene joints, the sealing degree would be equivalent to IP53.

- 1 Longitudinal reinforcements to improve Resistance to flexure.
- 2 Pressure-fixed covers with M4 bolts to avoid accidental accesses.
- 3 Cover with self-assembly system which gives it a higher sealing degree.
- 4 Inside wing which confers it a greater resistance to flexure.
- 5 "U-shaped" joint which gives the system a higher sealing degree and improves its resistance to flexure.
- 6 Corners finished at 45°.
- 7 Accessories with circular insides to avoid damaging the cables.

| B(mm) | USEFUL AREA (cm <sup>2</sup> ) |     |     |      |
|-------|--------------------------------|-----|-----|------|
|       | H40                            | H60 | H80 | H100 |
| 80    | 30                             | -   | -   | -    |
| 120   | 46                             | 70  | -   | -    |
| 140   | -                              | -   | 110 | -    |
| 200   | -                              | -   | 158 | 198  |
| 300   | -                              | -   | -   | 298  |
| 400   | -                              | -   | -   | 397  |
| 600   | -                              | -   | -   | 597  |

## CT H40 TRUNKING

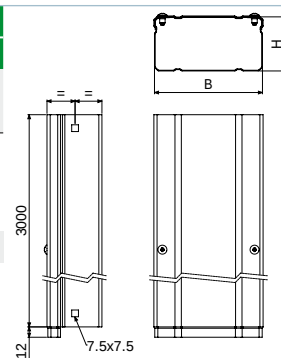


L = 3 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | IK | IP | A<br>cm <sup>2</sup> | T° Min<br>°C | T° Max<br>°C | GSE (Green) |      |
|-------------|----------|----------|---------|---------|----|----|----------------------|--------------|--------------|-------------|------|
|             |          |          |         |         |    |    |                      |              |              | REF.        | kg/m |
| CT 40x80    | 3        | 12       | 80      | 40      | 10 | 65 | 30                   | -45          | 120          | 2/0151      | 1,72 |
| CT 40x120   | 3        | 12       | 120     | 40      | 10 | 65 | 46                   | -45          | 120          | 2/0152      | 2,19 |

To assemble the trunking, it's necessary to use a joint. Each stretch requires one joint of the appropriate model, six bolts with reference number 2/4356 (product packed in bags containing 100 units) and six bolts with reference number 2/6818 (product packed in bags containing 100 units).

For more technical information, please consult page 211.



## CT H60 TRUNKING

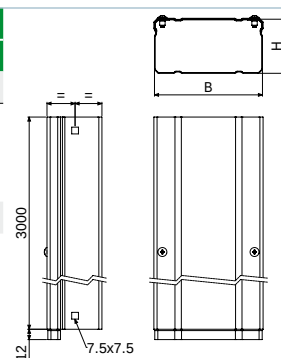


L = 3 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | IK | IP | A<br>cm <sup>2</sup> | T° Min<br>°C | T° Max<br>°C | GSE (Green) |      |
|-------------|----------|----------|---------|---------|----|----|----------------------|--------------|--------------|-------------|------|
|             |          |          |         |         |    |    |                      |              |              | REF.        | kg/m |
| CT 60x120   | 3        | 12       | 120     | 60      | 10 | 65 | 70                   | -45          | 120          | 2/0153      | 2,44 |

To assemble the trunking, it's necessary to use a joint. Each stretch requires one joint of the appropriate model, six bolts with reference number 2/4356 (product packed in bags containing 100 units) and six bolts with reference number 2/6818 (product packed in bags containing 100 units).

For more technical information, please consult page 211.



## CT H80 TRUNKING

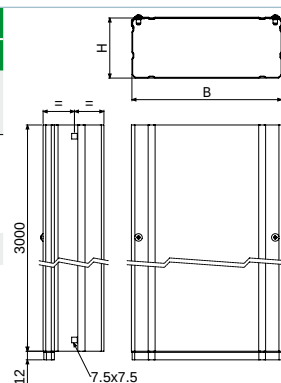


L = 3 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | IK | IP | A<br>cm <sup>2</sup> | T° Min<br>°C | T° Max<br>°C | GSE (Green) |      |
|-------------|----------|----------|---------|---------|----|----|----------------------|--------------|--------------|-------------|------|
|             |          |          |         |         |    |    |                      |              |              | REF.        | kg/m |
| CT 80x140   | 3        | 6        | 140     | 80      | 10 | 65 | 110                  | -45          | 120          | 2/0154      | 2,93 |
| CT 80x200   | 3        | 6        | 200     | 80      | 10 | 65 | 158                  | -45          | 120          | 2/0155      | 4,23 |

To assemble the trunking, it's necessary to use a joint. Each stretch requires one joint of the appropriate model, six bolts with reference number 2/4356 (product packed in bags containing 100 units) and six bolts with reference number 2/6818 (product packed in bags containing 100 units).

For more technical information, please consult page 211.



## CT H100 TRUNKING

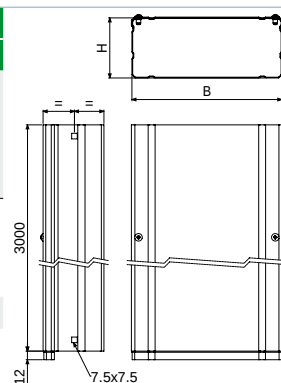


L = 3 m

| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | IK | IP | A<br>cm <sup>2</sup> | T° Min<br>°C | T° Max<br>°C | GSE (Green) |       |
|-------------|----------|----------|---------|---------|----|----|----------------------|--------------|--------------|-------------|-------|
|             |          |          |         |         |    |    |                      |              |              | REF.        | kg/m  |
| CT 100x200  | 3        | 6        | 200     | 100     | 10 | 65 | 198                  | -45          | 120          | 2/0156      | 4,54  |
| CT 100x300  | 3        | 6        | 300     | 100     | 10 | 65 | 298                  | -45          | 120          | 2/0157      | 5,88  |
| CT 100x400  | 3        | 3        | 400     | 100     | 10 | 65 | 397                  | -45          | 120          | 2/5908      | 7,6   |
| CT 100x600  | 3        | 3        | 600     | 100     | 10 | 65 | 597                  | -45          | 120          | 2/0160      | 16,86 |

To assemble the trunking, it's necessary to use a joint. Each stretch requires one joint of the appropriate model, six bolts with reference number 2/4356 (product packed in bags containing 100 units) and six bolts with reference number 2/6818 (product packed in bags containing 100 units).

For more technical information, please consult page 211.

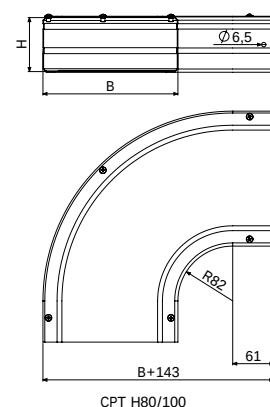
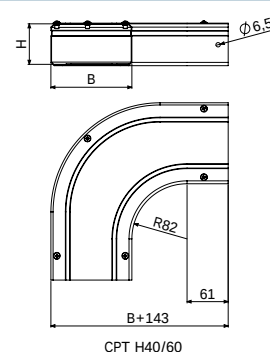


## CPT HORIZONTAL BEND

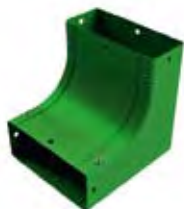


| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | R<br>mm | GSE (Green) |       |
|-------------|-----------|-----------|---------|---------|---------|-------------|-------|
|             |           |           |         |         |         | REF.        | kg/ud |
| CPT 40X80   | 1         | 4         | 80      | 40      | 82      | 2/0161      | 0,67  |
| CPT 40X120  | 1         | 4         | 120     | 40      | 82      | 2/0162      | 1,01  |
| CPT 60X120  | 1         | 4         | 120     | 60      | 82      | 2/0163      | 1,12  |
| CPT 80X140  | 1         | 4         | 140     | 80      | 82      | 2/0164      | 1,43  |
| CPT 80X200  | 1         | 3         | 200     | 80      | 82      | 2/0165      | 1,89  |
| CPT 100X200 | 1         | 2         | 200     | 100     | 82      | 2/0166      | 2,02  |
| CPT 100X300 | 1         | 2         | 300     | 100     | 82      | 2/0167      | 3,45  |
| CPT 100X400 | 1         | 1         | 400     | 100     | 82      | 2/3333      | 5,34  |
| CPT 100X600 | 1         | 1         | 600     | 100     | 82      | 2/0170      | 9,65  |

CPT requires a joint according to model. A joint and 6 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

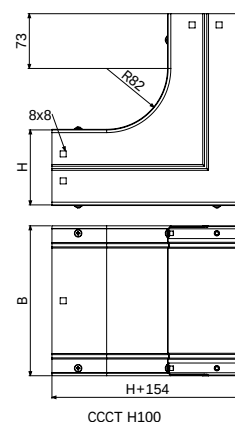
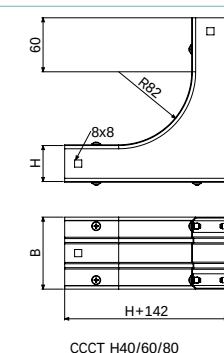


## CCCT VERTICAL INSIDE/OUTSIDE



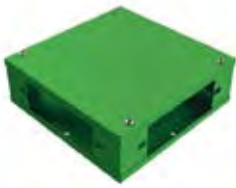
| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | R<br>mm | GSE (Green) |       |
|--------------|-----------|-----------|---------|---------|---------|-------------|-------|
|              |           |           |         |         |         | REF.        | kg/ud |
| CCCT 40X80   | 1         | 4         | 80      | 40      | 82      | 2/0171      | 0,61  |
| CCCT 40X120  | 1         | 4         | 120     | 40      | 82      | 2/0172      | 0,76  |
| CCCT 60X120  | 1         | 4         | 120     | 60      | 82      | 2/0173      | 0,92  |
| CCCT 80X140  | 1         | 4         | 140     | 80      | 82      | 2/0174      | 1,18  |
| CCCT 80X200  | 1         | 2         | 200     | 80      | 82      | 2/0175      | 1,44  |
| CCCT 100X200 | 1         | 2         | 200     | 100     | 82      | 2/0176      | 1,64  |
| CCCT 100X300 | 1         | 2         | 300     | 100     | 82      | 2/0177      | 2,10  |
| CCCT 100X400 | 1         | 1         | 400     | 100     | 82      | 2/0178      | 4,08  |
| CCCT 100X600 | 1         | 1         | 600     | 100     | 82      | 2/0180      | 5,71  |

CCCT requires a joint according to model. A joint and 6 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).





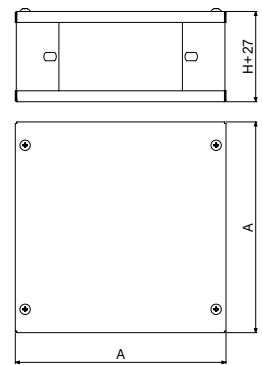
## CDT JUNCTION BOX



| DESCRIPTION | UVM<br>ud | UVE<br>ud | H<br>mm | A<br>mm | GSE (Green) |       |
|-------------|-----------|-----------|---------|---------|-------------|-------|
|             |           |           |         |         | REF.        | kg/ud |
| CDT 40      | 1         | 4         | 40      | 203     | 2/0191      | 0,97  |
| CDT 60      | 1         | 4         | 60      | 203     | 2/0192      | 1,24  |
| CDT 80      | 1         | 2         | 80      | 283     | 2/0193      | 2,1   |
| CDT 100     | 1         | 2         | 100     | 383     | 2/0194      | 3,59  |
| CDT 100X400 | 1         | 1         | 100     | 483     | 2/3610      | 3,40  |
| CDT 100X600 | 1         | 1         | 100     | 683     | 2/4203      | 6,50  |

CDT requires AC coupler according to model.

When trunking isn't being connected to one of the CDT junction box sides a TC solid cover must be used to seal the box. And 2 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

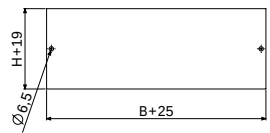


## TC SOLID COVER



| DESCRIPTION | UVM<br>ud | UVE<br>ud | H<br>mm | A<br>mm | GSE (Green) |       |
|-------------|-----------|-----------|---------|---------|-------------|-------|
|             |           |           |         |         | REF.        | kg/ud |
| TC 40       | 1         | 1         | 40      | 120     | 2/0223      | 0,05  |
| TC 60       | 1         | 1         | 60      | 120     | 2/0224      | 0,06  |
| TC 80       | 1         | 1         | 80      | 200     | 2/0225      | 0,21  |
| TC 100      | 1         | 1         | 100     | 300     | 2/0226      | 0,30  |
| TC 100X400  | 1         | 1         | 100     | 400     | 2/4866      | 0,40  |
| TC 100X600  | 1         | 1         | 100     | 600     | 2/5931      | 0,58  |

To mount TC solid cover 2 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

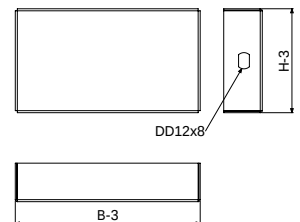


## END COVER



| DESCRIPTION | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GSE (Green) |       |
|-------------|-----------|-----------|---------|---------|-------------|-------|
|             |           |           |         |         | REF.        | kg/ud |
| TF 40X80    | 1         | 1         | 80      | 40      | 2/0213      | 0,07  |
| TF 40X120   | 1         | 1         | 120     | 40      | 2/0214      | 0,10  |
| TF 60X120   | 1         | 1         | 120     | 60      | 2/0215      | 0,10  |
| TF 80X140   | 1         | 1         | 140     | 80      | 2/0216      | 0,14  |
| TF 80X200   | 1         | 1         | 200     | 80      | 2/0217      | 0,23  |
| TF 100X200  | 1         | 1         | 200     | 100     | 2/0218      | 0,23  |
| TF 100X300  | 1         | 1         | 300     | 100     | 2/0219      | 0,46  |
| TF 100X400  | 1         | 1         | 400     | 100     | 2/0220      | 0,47  |
| TF 100X600  | 1         | 1         | 600     | 100     | 2/0222      | 0,68  |

To mount end cover 2 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

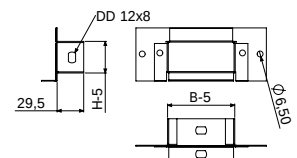


## AC COUPLER CDT40



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | B<br>mm | H<br>mm | GSE (Green) |       |
|--------------|-----------|-----------|---------|---------|-------------|-------|
|              |           |           |         |         | REF.        | kg/ud |
| AC 40/40X80  | 1         | 1         | 80      | 40      | 2/0195      | 0,085 |
| AC 40/40X120 | 1         | 1         | 120     | 40      | 2/0196      | 0,115 |

To mount AC coupler 5 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

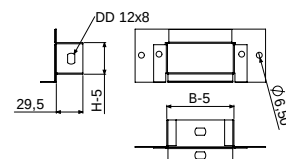


## AC COUPLER CDT60



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | GSE (Green) |       |
|--------------|-----------|-----------|-------------|-------|
|              |           |           | REF.        | kg/ud |
| AC 60/40X80  | 1         | 1         | 2/0197      | 0,13  |
| AC 60/40X120 | 1         | 1         | 2/0198      | 0,17  |
| AC 60/60X120 | 1         | 1         | 2/0199      | 0,13  |

To mount AC coupler 5 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

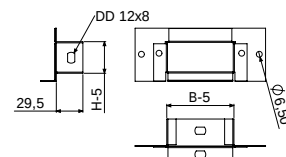


## AC COUPLER CDT80



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | GSE (Green) |       |
|--------------|-----------|-----------|-------------|-------|
|              |           |           | REF.        | kg/ud |
| AC 80/40X80  | 1         | 1         | 2/0200      | 0,17  |
| AC 80/40X120 | 1         | 1         | 2/0201      | 0,24  |
| AC 80/60X120 | 1         | 1         | 2/0202      | 0,25  |
| AC 80/80X140 | 1         | 1         | 2/0203      | 0,25  |
| AC 80/80X200 | 1         | 1         | 2/0204      | 0,21  |

To mount AC coupler 5 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

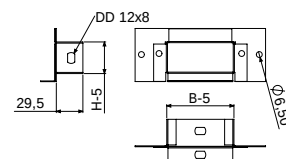


## AC COUPLER CDT100



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | GSE (Green) |       |
|----------------|-----------|-----------|-------------|-------|
|                |           |           | REF.        | kg/ud |
| AC 100/40X80   | 1         | 1         | 2/0205      | 0,37  |
| AC 100/40X120  | 1         | 1         | 2/0206      | 0,24  |
| AC 100/60X120  | 1         | 1         | 2/0207      | 0,38  |
| AC 100/80X140  | 1         | 1         | 2/0208      | 0,31  |
| AC 100/80X200  | 1         | 1         | 2/0209      | 0,44  |
| AC 100/100X200 | 1         | 1         | 2/0210      | 0,37  |
| AC 100/100X300 | 1         | 1         | 2/0211      | 0,76  |
| AC 100/100X400 | 1         | 1         | 2/0212      | 0,39  |
| AC 100/100X600 | 1         | 1         | 2/4867      | 0,54  |

To mount AC coupler 5 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).

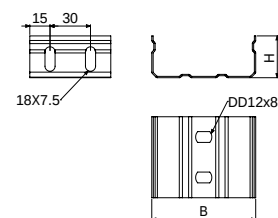


## JUCT JOINT

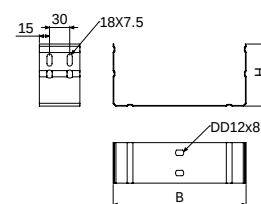


| DESCRIPTION  | UVM<br>ud | UVE<br>ud | GS     |       |
|--------------|-----------|-----------|--------|-------|
|              |           |           | REF.   | kg/ud |
| JUCT 40X80   | 1         | 1         | 2/0181 | 0,06  |
| JUCT 40X120  | 1         | 1         | 2/0182 | 0,08  |
| JUCT 60X120  | 1         | 1         | 2/0183 | 0,1   |
| JUCT 80X140  | 1         | 1         | 2/0184 | 0,12  |
| JUCT 80X200  | 1         | 1         | 2/0185 | 0,15  |
| JUCT 100X200 | 1         | 1         | 2/0186 | 0,17  |
| JUCT 100X300 | 1         | 1         | 2/0187 | 0,22  |
| JUCT 100X400 | 1         | 1         | 2/5907 | 0,28  |
| JUCT 100X600 | 1         | 1         | 2/0190 | 0,54  |

To mount JUCT 6 bolt sets with reference 2/4356 are needed (products packed in bags containing 100 units).



JUCT H80/120/140



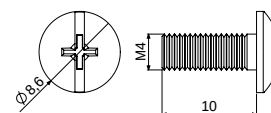
JUCT H200/300/400

## M4X10 BOLT BAG 100



| DESCRIPTION        | UVM<br>ud | UVE<br>ud | CINCADO |       |
|--------------------|-----------|-----------|---------|-------|
|                    |           |           | REF.    | kg/ud |
| M4X10 BOLT BAG 100 | 1         | 1         | 2/6818  | 0,25  |

This bolt is used to fix the covers from the trunkings.

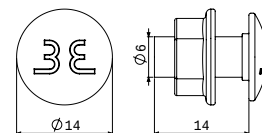


## B1 BOLT SET



| DESCRIPTION                | UVM<br>ud | UVE<br>ud | Pap<br>Nm | CINCADO |       |
|----------------------------|-----------|-----------|-----------|---------|-------|
|                            |           |           |           | REF.    | kg/ud |
| Pack 100 B1 Bolt Set M6x14 | 1         | 1         | 6         | 2/4356  | 1,00  |

The B1 bolt set consists of a M6x14 DIN603 mushroom head square neck bolt and a M6 DIN6923 flange nut with serration for a perfect fit. Used to mount all accessories from the BASORCANAL series.



## BUPRENE JOINT



| DESCRIPTION   | UVM<br>m | UVE<br>m | BUPRENE |      |
|---------------|----------|----------|---------|------|
|               |          |          | REF.    | kg/m |
| BUPRENE JOINT | 10       | 10       | 2/0227  | 0,03 |

The buprene joint is necessary to obtain IP65 degree of protection. Should be used in all elements of union.

## BASORCANAL MOUNTS

## JUCT JOINT



## CPT HORIZONTAL BEND



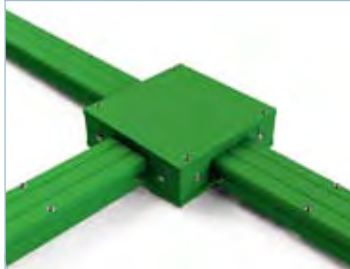
## CCCT VERTICAL



## AC COUPLER



## CDT JUNCTION BOX



## END COVER



## TRUNKING + SV SUPPORT



SV - page 137

## SWL (kg) WALL SUPPORTS

| PRODUCT |                                                                                   | B (mm) horizontal support |     |     |     |     |     |     |     |     |      |
|---------|-----------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
|         |                                                                                   | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 750 | Page |
| SCR     |  | 70                        | 70  | 70  | 70  | 70  | 70  | 70  | 60  | 60  | 137  |

## SWL (kg) CEILING SUPPORTS

| PRODUCT             |                                                                                   | B (mm) horizontal support |     |     |     |     |     |     |     |     |      |
|---------------------|-----------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
|                     |                                                                                   | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 750 | Page |
| WALL BRACKET+PC+SCR |  | 150                       | 120 | 100 | 86  | 67  | 55  | 46  | 40  | -   | 137  |

## SWL (kg) WALL-FLOOR SPACER

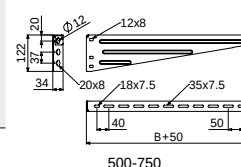
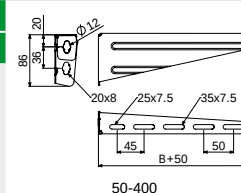
| PRODUCT |                                                                                     | B (mm) horizontal support |     |     |     |     |     |     |     |     |      |
|---------|-------------------------------------------------------------------------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
|         |                                                                                     | 50                        | 100 | 150 | 200 | 300 | 400 | 500 | 600 | 750 | Page |
| SV      |  | -                         | 120 | 120 | 110 | 90  | -   | -   | -   | -   | 137  |

## GREEN SCR SUPPORT



|                 | UVM | UVE | B   |          | GSE (Green) |       |
|-----------------|-----|-----|-----|----------|-------------|-------|
| DESCRIPTION     | ud  | ud  | mm  | SWL (kg) | REF.        | kg/ud |
| SCR 50 Support  | 1   | 75  | 50  | 70       | 2/0983      | 0,20  |
| SCR 100 Support | 1   | 60  | 100 | 70       | 2/0984      | 0,27  |
| SCR 150 Support | 1   | 10  | 150 | 70       | 2/0985      | 0,33  |
| SCR 200 Support | 1   | 10  | 200 | 70       | 2/0986      | 0,42  |
| SCR 300 Support | 1   | 10  | 300 | 70       | 2/1007      | 0,68  |
| SCR 400 Support | 1   | 10  | 400 | 70       | 2/1008      | 0,85  |
| SCR 500 Support | 1   | 10  | 500 | 70       | 2/1009      | 1,03  |
| SCR 600 Support | 1   | 10  | 600 | 60       | 2/1010      | 1,20  |
| SCR 750 Support | 1   | 5   | 750 | 60       | 2/1011      | 1,81  |

For more technical information, please consult page 211.



## GREEN PC PROFILE



PC profile

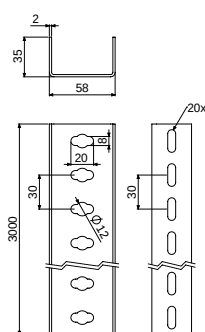


Wall bracket

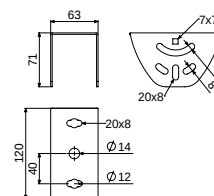
| DESCRIPTION        | UVM<br>m/ud | UVE<br>m/ud | L<br>mm | GSE (Green) |       |
|--------------------|-------------|-------------|---------|-------------|-------|
|                    |             |             |         | REF.        | kg/ud |
| PC 3000 Profile    | 3           | 18          | 3000    | 2/0230      | 2,05  |
| WALL BRACKET Green | 1           | 40          | -       | 2/1118      | 0,27  |

To mount wall bracket with the PC profile 4 bolt sets reference 2/4356 are needed (products packed in bags containing 100).

For more technical information, please consult page 211.



PC profile



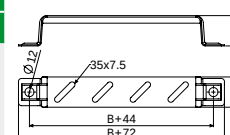
Wall bracket

## GREEN SV SUPPORT



| DESCRIPTION    | UVM | UVE | B   | SWL (kg) | GSE (Green) |       |
|----------------|-----|-----|-----|----------|-------------|-------|
|                | ud  | ud  | mm  |          | REF.        | kg/ud |
| SV 100 Support | 1   | 50  | 100 | 120      | 2/1054      | 0,10  |
| SV 150 Support | 1   | 40  | 150 | 120      | 2/1055      | 0,12  |
| SV 200 Support | 1   | 42  | 200 | 110      | 2/1056      | 0,19  |
| SV 300 Support | 1   | 60  | 300 | 90       | 2/1057      | 0,25  |

For more technical information, please consult page 211.







# SBT



## PVC AND RLH RIGID CONDUITS

BASORTUB RE1250 ..... Page 140

BASORTUB R1250 ..... Page 140

BASORTUB Accessories ..... Page 141

## POLYAMIDE FLEXIBLE CONDUITS

BASORFLEX ..... Page 142

BASORFLEX Accessories ..... Page 143

- RE1250 and R1250 rigid conduits can be used in all kinds of superficial electrical systems with a minimum compression strength of 1250N.
- FLEXL flexible conduits have been designed to protect cables in robots, spinning tables, solar trackers and, generally speaking, machines which are in constant movement.

# BASORTUB

**PVC7035 / RLH7035 / PA6**



The range of BASORTUB RE1250 RLH7035 self-assembly products has a service temperature of between -5 and 90° C, an IP54 degree of protection, a minimum compression strength of 1250N and a minimum impact resistance of 6J to -5° C. Its dielectric rigidity is higher than 2000 V and its insulating resistance is higher than 100 MOhm. Its classification, according to Standard IEC 61386 is 44221254010.

The range of BASORTUB RE1250 PVC7035 self-assembly products has a service temperature of -5 to 60° C, an IP54 degree of protection, a minimum compression strength of 1250N and a minimum impact resistance of 2J to -5° C. Its dielectric rigidity is higher than 2000 V and its insulating resistance is higher than 100 MOhm. Its classification, according to Standard IEC 61386 is 43211254010.

### RE 1250 HALOGEN-FREE BASORTUB

| DESCRIPTION | UVM<br>m | UVE<br>m | DN<br>mm | UNE-EN 61386 | Rcomp<br>N | IP | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | RLH7035 |      |
|-------------|----------|----------|----------|--------------|------------|----|-----------|------------|------------|---------|------|
|             |          |          |          |              |            |    |           |            |            | REF.    | kg/m |
| RE1250 16   | 3        | 57       | 16       | 4422         | 1250       | 54 | 6         | -5         | 90         | 2/6453  | 0,07 |
| RE1250 20   | 3        | 57       | 20       | 4422         | 1250       | 54 | 6         | -5         | 90         | 2/6454  | 0,10 |
| RE1250 25   | 3        | 57       | 25       | 4422         | 1250       | 54 | 6         | -5         | 90         | 2/6455  | 0,13 |
| RE1250 32   | 3        | 30       | 32       | 4422         | 1250       | 54 | 6         | -5         | 90         | 2/6456  | 0,19 |
| RE1250 40   | 3        | 30       | 40       | 4422         | 1250       | 54 | 6         | -5         | 90         | 2/6457  | 0,24 |
| RE1250 50   | 3        | 15       | 50       | 4422         | 1250       | 54 | 6         | -5         | 90         | 2/6458  | 0,37 |
| RE1250 63   | 3        | 15       | 63       | 4422         | 1250       | 54 | 6         | -5         | 90         | 2/6459  | 0,49 |

No couplers are needed.

### R 1250 HALOGEN-FREE BASORTUB

| DESCRIPTION | UVM<br>m | UVE<br>m | DN<br>mm | UNE-EN 61386 | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | RLH7035 |      |
|-------------|----------|----------|----------|--------------|------------|-----------|------------|------------|---------|------|
|             |          |          |          |              |            |           |            |            | REF.    | kg/m |
| R1250 16    | 3        | 57       | 16       | 4422         | 1250       | 6         | -5         | 90         | 2/6768  | 0,07 |
| R1250 20    | 3        | 57       | 20       | 4422         | 1250       | 6         | -5         | 90         | 2/6769  | 0,10 |
| R1250 25    | 3        | 57       | 25       | 4422         | 1250       | 6         | -5         | 90         | 2/6770  | 0,13 |
| R1250 32    | 3        | 30       | 32       | 4422         | 1250       | 6         | -5         | 90         | 2/6771  | 0,19 |
| R1250 40    | 3        | 30       | 40       | 4422         | 1250       | 6         | -5         | 90         | 2/6772  | 0,24 |
| R1250 50    | 3        | 15       | 50       | 4422         | 1250       | 6         | -5         | 90         | 2/6773  | 0,37 |
| R1250 63    | 3        | 15       | 63       | 4422         | 1250       | 6         | -5         | 90         | 2/6774  | 0,49 |

Each stretch requires a JUR 1250 coupler.

### R 1250 PVC BASORTUB

| DESCRIPTION | UVM<br>m | UVE<br>m | DN<br>mm | UNE-EN 61386 | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | PVC7035 |      |
|-------------|----------|----------|----------|--------------|------------|-----------|------------|------------|---------|------|
|             |          |          |          |              |            |           |            |            | REF.    | kg/m |
| R1250 16    | 3        | 57       | 16       | 4321         | 1250       | 2         | -5         | 60         | 2/6460  | 0,07 |
| R1250 20    | 3        | 57       | 20       | 4321         | 1250       | 2         | -5         | 60         | 2/6461  | 0,14 |
| R1250 25    | 3        | 57       | 25       | 4321         | 1250       | 2         | -5         | 60         | 2/6462  | 0,24 |
| R1250 32    | 3        | 30       | 32       | 4321         | 1250       | 2         | -5         | 60         | 2/6463  | 0,26 |
| R1250 40    | 3        | 30       | 40       | 4321         | 1250       | 2         | -5         | 60         | 2/6464  | 0,33 |
| R1250 50    | 3        | 15       | 50       | 4321         | 1250       | 2         | -5         | 60         | 2/6465  | 0,37 |
| R1250 63    | 3        | 15       | 63       | 4321         | 1250       | 2         | -5         | 60         | 2/6466  | 0,66 |

Each stretch requires a JUR 1250 coupler.

## JUR 1250 BASORTUB



| DESCRIPTION | UVM<br>ud | UVE<br>ud | DN<br>mm | IP | RLH7035 |       |
|-------------|-----------|-----------|----------|----|---------|-------|
|             |           |           |          |    | REF.    | kg/ud |
| JUR1250 16  | 10        | 10        | 16       | 40 | 2/6732  | 0,01  |
| JUR1250 20  | 10        | 10        | 20       | 40 | 2/6733  | 0,01  |
| JUR1250 25  | 10        | 10        | 25       | 40 | 2/6734  | 0,01  |
| JUR1250 32  | 10        | 10        | 32       | 40 | 2/6735  | 0,02  |
| JUR1250 40  | 5         | 5         | 40       | 40 | 2/6736  | 0,03  |
| JUR1250 50  | 5         | 5         | 50       | 40 | 2/6737  | 0,04  |
| JUR1250 63  | -         | -         | 63       | 40 | 2/6738  | 0,05  |

## CP90R1250 BASORTUB BEND



| DESCRIPTION  | UVM<br>ud | UVE<br>ud | DN<br>mm | IP | RLH7035 |       |
|--------------|-----------|-----------|----------|----|---------|-------|
|              |           |           |          |    | REF.    | kg/ud |
| CP90R1250 16 | 10        | 10        | 16       | 41 | 2/6739  | 0,01  |
| CP90R1250 20 | 10        | 10        | 20       | 41 | 2/6740  | 0,02  |
| CP90R1250 25 | 10        | 10        | 25       | 41 | 2/6741  | 0,04  |
| CP90R1250 32 | 5         | 5         | 32       | 41 | 2/6742  | 0,07  |
| CP90R1250 40 | 2         | 2         | 40       | 41 | 2/6743  | 0,10  |
| CP90R1250 50 | 2         | 2         | 50       | 41 | 2/6744  | 0,18  |
| CP90R1250 63 | 1         | 1         | 63       | 41 | 2/6745  | 0,28  |

## CFR1250 BASORTUB FLEXIBLE BEND



| DESCRIPTION | UVM<br>ud | UVE<br>ud | DN<br>mm | IP | RLH7035 |       |
|-------------|-----------|-----------|----------|----|---------|-------|
|             |           |           |          |    | REF.    | kg/ud |
| CFR1250 16  | 1         | 1         | 16       | 41 | 2/6819  | 0,08  |
| CFR1250 20  | 1         | 1         | 20       | 41 | 2/6820  | 0,10  |
| CFR1250 25  | 1         | 1         | 25       | 41 | 2/6821  | 0,11  |
| CFR1250 32  | 1         | 1         | 32       | 41 | 2/6822  | 0,12  |
| CFR1250 40  | 1         | 1         | 40       | 41 | 2/6823  | 0,13  |
| CFR1250 50  | 1         | 1         | 50       | 41 | 2/6824  | 0,14  |

## MCR1250 BASORTUB CONNECTION BOX



| DESCRIPTION | UVM<br>ud | UVE<br>ud | DN<br>mm | IP | RLH7035 |       |
|-------------|-----------|-----------|----------|----|---------|-------|
|             |           |           |          |    | REF.    | kg/ud |
| MCR1250 16  | 10        | 10        | 16       | 65 | 2/6746  | 0,02  |
| MCR1250 20  | 10        | 10        | 20       | 65 | 2/6747  | 0,02  |
| MCR1250 25  | 10        | 10        | 25       | 65 | 2/6748  | 0,03  |
| MCR1250 32  | 10        | 10        | 32       | 65 | 2/6749  | 0,04  |
| MCR1250 40  | 5         | 5         | 40       | 65 | 2/6750  | 0,08  |
| MCR1250 50  | 5         | 5         | 50       | 65 | 2/6751  | 0,09  |
| MCR1250 63  | 1         | 1         | 63       | 65 | 2/6752  | 0,1   |

## SPR1250 BASORTUB WALL SUPPORT



| DESCRIPTION | UVM<br>ud | UVE<br>ud | DN<br>mm | F<br>kg | RLH7035 |       |
|-------------|-----------|-----------|----------|---------|---------|-------|
|             |           |           |          |         | REF.    | kg/ud |
| SPR1250 16  | 10        | 10        | 16       | 3       | 2/6753  | 0,01  |
| SPR1250 20  | 10        | 10        | 20       | 3       | 2/6754  | 0,01  |
| SPR1250 25  | 10        | 10        | 25       | 3       | 2/6755  | 0,01  |
| SPR1250 32  | 10        | 10        | 32       | 3       | 2/6756  | 0,01  |
| SPR1250 40  | 10        | 10        | 40       | 3       | 2/6757  | 0,01  |
| SPR1250 50  | 10        | 10        | 50       | 3       | 2/6758  | 0,02  |
| SPR1250 63  | 1         | 1         | 63       | 3       | 2/6759  | 0,02  |

## ABR1250 BASORTUB WALL CLAMP



| DESCRIPTION   | UVM<br>ud | UVE<br>ud | DN<br>mm | F<br>kg | RLH7035 |       |
|---------------|-----------|-----------|----------|---------|---------|-------|
|               |           |           |          |         | REF.    | kg/ud |
| ABR1250 16/32 | 100       | 100       | 16/32    | 15      | 2/6760  | 0,01  |
| ABR1250 20/63 | 100       | 100       | 20/63    | 15      | 2/6761  | 0,01  |

BASORTUB FLEX nylon products (PA6, PA6VO and PA12) are self-extinguishing, highly fire resistant, have a low level of smoke, a low toxicity and are halogen, sulphur and phosphate-free.

They are ideal for protecting conductors in flexible electrical systems in industrial and tertiary sectors. Its classification, according to Standard IEC 61386 is 2432.

#### PA6 BASORFLEX POLYAMIDE FLEXL

| DESCRIPTION | UVM<br>m | UVE<br>m | Dint<br>mm | Dext<br>mm | UNE-EN 61386 | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | PA6-7016 |      | PA6-9011 |      |
|-------------|----------|----------|------------|------------|--------------|------------|-----------|------------|------------|----------|------|----------|------|
|             |          |          |            |            |              |            |           |            |            | REF.     | kg/m | REF.     | kg/m |
| FLEXL 7/10  | 50       | 50       | 7          | 10         | 2432         | 320        | 6         | -20        | 120        | 2/6517   | 0,02 | 2/6526   | 0,02 |
| FLEXL 10/13 | 50       | 50       | 10         | 13         | 2432         | 320        | 6         | -20        | 120        | 2/6518   | 0,02 | 2/6527   | 0,02 |
| FLEXL 12/16 | 50       | 50       | 12         | 16         | 2432         | 320        | 6         | -20        | 120        | 2/6519   | 0,04 | 2/6528   | 0,04 |
| FLEXL 14/18 | 50       | 50       | 14         | 18         | 2432         | 320        | 6         | -20        | 120        | 2/6520   | 0,04 | 2/6529   | 0,04 |
| FLEXL 17/21 | 50       | 50       | 17         | 21         | 2432         | 320        | 6         | -20        | 120        | 2/6521   | 0,06 | 2/6530   | 0,06 |
| FLEXL 23/28 | 50       | 50       | 23         | 18         | 2432         | 320        | 6         | -20        | 120        | 2/6522   | 0,08 | 2/6531   | 0,08 |
| FLEXL 29/34 | 50       | 50       | 29         | 34         | 2432         | 320        | 6         | -20        | 120        | 2/6523   | 0,10 | 2/6532   | 0,10 |
| FLEXL 36/42 | 25       | 25       | 36         | 42         | 2432         | 320        | 6         | -20        | 120        | 2/6524   | 0,16 | 2/6533   | 0,16 |
| FLEXL 48/54 | 25       | 25       | 48         | 54         | 2432         | 320        | 6         | -20        | 120        | 2/6525   | 0,20 | 2/6534   | 0,20 |

#### PA12 BASORFLEX POLYAMIDE FLEXS

| DESCRIPTION | UVM<br>m | UVE<br>m | Dint<br>mm | Dext<br>mm | UNE-EN 61386 | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | PA12-7016 |      | PA6-9011 |      |
|-------------|----------|----------|------------|------------|--------------|------------|-----------|------------|------------|-----------|------|----------|------|
|             |          |          |            |            |              |            |           |            |            | REF.      | kg/m | REF.     | kg/m |
| FLEXS 10/13 | 50       | 50       | 10         | 13         | 1353         | 125        | 2         | -45        | 105        | 2/6583    | 0,02 | 2/6590   | 0,02 |
| FLEXS 12/16 | 50       | 50       | 12         | 16         | 1353         | 125        | 2         | -45        | 105        | 2/6584    | 0,04 | 2/6591   | 0,04 |
| FLEXS 17/21 | 50       | 50       | 17         | 21         | 1353         | 125        | 2         | -45        | 105        | 2/6585    | 0,06 | 2/6592   | 0,06 |
| FLEXS 22/28 | 50       | 50       | 22         | 28         | 1353         | 125        | 2         | -45        | 105        | 2/6586    | 0,08 | 2/6593   | 0,08 |
| FLEXS 28/34 | 50       | 50       | 28         | 34         | 1353         | 125        | 2         | -45        | 105        | 2/6587    | 0,10 | 2/6594   | 0,10 |
| FLEXS 35/42 | 25       | 25       | 35         | 42         | 1353         | 125        | 2         | -45        | 105        | 2/6588    | 0,16 | 2/6595   | 0,16 |
| FLEXS 47/54 | 25       | 25       | 47         | 54         | 1353         | 125        | 2         | -45        | 105        | 2/6589    | 0,20 | 2/6596   | 0,20 |



## RFLEX PG CONNECTOR



| DESCRIPTION            | UVM<br>ud | UVE<br>ud | Dext<br>mm | Thread<br>PG | UNE-EN 61386 | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | PA6-7016 |       | PA6-9011 |       |
|------------------------|-----------|-----------|------------|--------------|--------------|------------|-----------|------------|------------|----------|-------|----------|-------|
|                        |           |           |            |              |              |            |           |            |            | REF.     | kg/ud | REF.     | kg/ud |
| RFLEX 10PG07 CONNECTOR | 10        | 10        | 10         | 7            | 1353         | 125        | 2         | -45        | 105        | 2/6597   | 0,004 | 2/6608   | 0,004 |
| RFLEX 13PG09 CONNECTOR | 10        | 10        | 13         | 9            | 1353         | 125        | 2         | -45        | 105        | 2/6598   | 0,007 | 2/6609   | 0,007 |
| RFLEX 16PG11 CONNECTOR | 10        | 10        | 16         | 11           | 1353         | 125        | 2         | -45        | 105        | 2/6599   | 0,010 | 2/6610   | 0,010 |
| RFLEX 16PG13 CONNECTOR | 10        | 10        | 16         | 13           | 1353         | 125        | 2         | -45        | 105        | 2/6600   | 0,010 | 2/6611   | 0,010 |
| RFLEX 18PG13 CONNECTOR | 10        | 10        | 18         | 13           | 1353         | 125        | 2         | -45        | 105        | 2/6601   | 0,012 | 2/6612   | 0,012 |
| RFLEX 21PG13 CONNECTOR | 10        | 10        | 21         | 13           | 1353         | 125        | 2         | -45        | 105        | 2/6602   | 0,012 | 2/6613   | 0,012 |
| RFLEX 21PG16 CONNECTOR | 10        | 10        | 21         | 16           | 1353         | 125        | 2         | -45        | 105        | 2/6603   | 0,012 | 2/6614   | 0,012 |
| RFLEX 28PG21 CONNECTOR | 10        | 10        | 28         | 21           | 1353         | 125        | 2         | -45        | 105        | 2/6604   | 0,027 | 2/6615   | 0,027 |
| RFLEX 34PG29 CONNECTOR | 10        | 10        | 34         | 29           | 1353         | 125        | 2         | -45        | 105        | 2/6605   | 0,033 | 2/6616   | 0,033 |
| RFLEX 42PG36 CONNECTOR | 2         | 2         | 42         | 36           | 1353         | 125        | 2         | -45        | 105        | 2/6606   | 0,060 | 2/6617   | 0,060 |
| RFLEX 54PG48 CONNECTOR | 2         | 2         | 54         | 48           | 1353         | 125        | 2         | -45        | 105        | 2/6607   | 0,085 | 2/6618   | 0,085 |

## RFLEX M CONNECTOR



| DESCRIPTION           | UVM<br>ud | UVE<br>ud | Dext<br>mm | Thread<br>M | UNE-EN 61386 | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | PA6-7016 |       | PA6-9011 |       |
|-----------------------|-----------|-----------|------------|-------------|--------------|------------|-----------|------------|------------|----------|-------|----------|-------|
|                       |           |           |            |             |              |            |           |            |            | REF.     | kg/ud | REF.     | kg/ud |
| RFLEX 10M12 CONNECTOR | 10        | 10        | 10         | 12          | 1353         | 125        | 2         | -45        | 105        | 2/6639   | 0,01  | 2/6650   | 0,01  |
| RFLEX 13M16 CONNECTOR | 10        | 10        | 13         | 16          | 1353         | 125        | 2         | -45        | 105        | 2/6640   | 0,01  | 2/6651   | 0,01  |
| RFLEX 16M16 CONNECTOR | 10        | 10        | 16         | 16          | 1353         | 125        | 2         | -45        | 105        | 2/6641   | 0,01  | 2/6652   | 0,01  |
| RFLEX 16M20 CONNECTOR | 10        | 10        | 16         | 20          | 1353         | 125        | 2         | -45        | 105        | 2/6642   | 0,02  | 2/6653   | 0,02  |
| RFLEX 18M20 CONNECTOR | 10        | 10        | 18         | 20          | 1353         | 125        | 2         | -45        | 105        | 2/6643   | 0,02  | 2/6654   | 0,02  |
| RFLEX 21M20 CONNECTOR | 10        | 10        | 21         | 20          | 1353         | 125        | 2         | -45        | 105        | 2/6644   | 0,02  | 2/6655   | 0,02  |
| RFLEX 28M25 CONNECTOR | 10        | 10        | 28         | 25          | 1353         | 125        | 2         | -45        | 105        | 2/6645   | 0,03  | 2/6656   | 0,03  |
| RFLEX 34M32 CONNECTOR | 10        | 10        | 34         | 32          | 1353         | 125        | 2         | -45        | 105        | 2/6646   | 0,04  | 2/6657   | 0,04  |
| RFLEX 42M40 CONNECTOR | 2         | 2         | 42         | 40          | 1353         | 125        | 2         | -45        | 105        | 2/6647   | 0,07  | 2/6658   | 0,07  |
| RFLEX 54M50 CONNECTOR | 2         | 2         | 54         | 50          | 1353         | 125        | 2         | -45        | 105        | 2/6648   | 0,10  | 2/6659   | 0,10  |
| RFLEX 54M63 CONNECTOR | 2         | 2         | 54         | 63          | 1353         | 125        | 2         | -45        | 105        | 2/6649   | 0,10  | 2/6660   | 0,10  |

Included nut.

## RFLEX 90 PG CONNECTOR



| DESCRIPTION              | UVM<br>ud | UVE<br>ud | Dext<br>mm | Thread<br>PG | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | PA6-7016   |       | PA6-9011   |       |
|--------------------------|-----------|-----------|------------|--------------|------------|-----------|------------|------------|------------|-------|------------|-------|
|                          |           |           |            |              |            |           |            |            | Referencia | kg/ud | Referencia | kg/ud |
| RFLEX90 10PG07 CONNECTOR | 10        | 10        | 10         | 7            | 125        | 2         | -45        | 105        | 2/6619     | 0,01  | 2/6629     | 0,01  |
| RFLEX90 13PG09 CONNECTOR | 10        | 10        | 13         | 9            | 125        | 2         | -45        | 105        | 2/6620     | 0,02  | 2/6630     | 0,02  |
| RFLEX90 16PG11 CONNECTOR | 10        | 10        | 16         | 11           | 125        | 2         | -45        | 105        | 2/6621     | 0,02  | 2/6631     | 0,02  |
| RFLEX90 16PG13 CONNECTOR | 10        | 10        | 16         | 13           | 125        | 2         | -45        | 105        | 2/6622     | 0,02  | 2/6632     | 0,02  |
| RFLEX90 21PG13 CONNECTOR | 10        | 10        | 21         | 13           | 125        | 2         | -45        | 105        | 2/6623     | 0,02  | 2/6633     | 0,02  |
| RFLEX90 21PG16 CONNECTOR | 10        | 10        | 21         | 16           | 125        | 2         | -45        | 105        | 2/6624     | 0,02  | 2/6634     | 0,02  |
| RFLEX90 28PG21 CONNECTOR | 10        | 10        | 28         | 21           | 125        | 2         | -45        | 105        | 2/6625     | 0,04  | 2/6635     | 0,04  |
| RFLEX90 34PG29 CONNECTOR | 5         | 5         | 34         | 29           | 125        | 2         | -45        | 105        | 2/6626     | 0,06  | 2/6636     | 0,06  |
| RFLEX90 42PG36 CONNECTOR | 2         | 2         | 42         | 36           | 125        | 2         | -45        | 105        | 2/6627     | 0,10  | 2/6637     | 0,10  |
| RFLEX90 54PG48 CONNECTOR | 2         | 2         | 54         | 48           | 125        | 2         | -45        | 105        | 2/6628     | 0,15  | 2/6638     | 0,15  |

## RFLEX 90 M CONNECTOR



| DESCRIPTION             | UVM<br>ud | UVE<br>ud | Dext<br>mm | Thread<br>M | Rcomp<br>N | Rimp<br>J | Tmin<br>°C | Tmax<br>°C | PA6-7016 |       | PA6-9011 |       |
|-------------------------|-----------|-----------|------------|-------------|------------|-----------|------------|------------|----------|-------|----------|-------|
|                         |           |           |            |             |            |           |            |            | REF.     | kg/ud | REF.     | kg/ud |
| RFLEX90 10M12 CONNECTOR | 10        | 10        | 10         | 12          | 125        | 2         | -45        | 105        | 2/6661   | 0,01  | 2/6671   | 0,01  |
| RFLEX90 13M16 CONNECTOR | 10        | 10        | 13         | 16          | 125        | 2         | -45        | 105        | 2/6662   | 0,02  | 2/6672   | 0,02  |
| RFLEX90 16M16 CONNECTOR | 10        | 10        | 16         | 16          | 125        | 2         | -45        | 105        | 2/6663   | 0,02  | 2/6673   | 0,02  |
| RFLEX90 16M20 CONNECTOR | 10        | 10        | 16         | 20          | 125        | 2         | -45        | 105        | 2/6664   | 0,02  | 2/6674   | 0,02  |
| RFLEX90 21M20 CONNECTOR | 10        | 10        | 21         | 20          | 125        | 2         | -45        | 105        | 2/6665   | 0,02  | 2/6675   | 0,02  |
| RFLEX90 28M25 CONNECTOR | 10        | 10        | 28         | 25          | 125        | 2         | -45        | 105        | 2/6666   | 0,04  | 2/6676   | 0,04  |
| RFLEX90 34M32 CONNECTOR | 5         | 5         | 34         | 32          | 125        | 2         | -45        | 105        | 2/6667   | 0,06  | 2/6677   | 0,06  |
| RFLEX90 42M40 CONNECTOR | 2         | 2         | 42         | 40          | 125        | 2         | -45        | 105        | 2/6668   | 0,10  | 2/6678   | 0,10  |
| RFLEX90 54M50 CONNECTOR | 2         | 2         | 54         | 50          | 125        | 2         | -45        | 105        | 2/6669   | 0,15  | 2/6679   | 0,15  |
| RFLEX90 54M63 CONNECTOR | 2         | 2         | 54         | 63          | 125        | 2         | -45        | 105        | 2/6670   | 0,16  | 2/6680   | 0,16  |

Included nut.

## RFLEX 45 PG CONNECTOR



| DESCRIPTION              | UVM<br>ud | UVE<br>ud | Dext<br>mm | Thread<br>PG | PA6-7016 |       | PA6-9011 |       |
|--------------------------|-----------|-----------|------------|--------------|----------|-------|----------|-------|
|                          |           |           |            |              | REF.     | kg/ud | REF.     | kg/ud |
| RFLEX45 16PG11 CONNECTOR | 50        | 50        | 16         | 11           | 2/6709   | 0,02  | 2/6714   | 0,02  |
| RFLEX45 16PG13 CONNECTOR | 50        | 50        | 16         | 13           | 2/6710   | 0,02  | 2/6715   | 0,02  |
| RFLEX45 21PG16 CONNECTOR | 50        | 50        | 21         | 16           | 2/6711   | 0,02  | 2/6716   | 0,02  |
| RFLEX45 28PG21 CONNECTOR | 50        | 50        | 28         | 21           | 2/6712   | 0,03  | 2/6717   | 0,03  |
| RFLEX45 34PG29 CONNECTOR | 10        | 10        | 34         | 29           | 2/6713   | 0,05  | 2/6718   | 0,05  |

## RFLEX 45 M CONNECTOR



| DESCRIPTION             | UVM<br>ud | UVE<br>ud | Dext<br>mm | Thread<br>M | PA6-7016 |       | PA6-9011 |       |
|-------------------------|-----------|-----------|------------|-------------|----------|-------|----------|-------|
|                         |           |           |            |             | REF.     | kg/ud | REF.     | kg/ud |
| RFLEX45 16M16 CONNECTOR | 50        | 50        | 16         | 16          | 2/6719   | 0,02  | 2/6724   | 0,02  |
| RFLEX45 16M20 CONNECTOR | 50        | 50        | 16         | 20          | 2/6720   | 0,02  | 2/6725   | 0,02  |
| RFLEX45 21M20 CONNECTOR | 50        | 50        | 21         | 20          | 2/6721   | 0,02  | 2/6726   | 0,02  |
| RFLEX45 28M25 CONNECTOR | 50        | 50        | 28         | 25          | 2/6722   | 0,03  | 2/6727   | 0,03  |
| RFLEX45 34M32 CONNECTOR | 10        | 10        | 34         | 32          | 2/6723   | 0,05  | 2/6728   | 0,05  |

Included nut.

## RIGID TO FLEXIBLE CONDUIT ADAPTOR



| DESCRIPTION           | UVM<br>ud | UVE<br>ud | FLEX<br>mm | Rigid<br>mm | PA6-7016 |       | PA6-9011 |       |
|-----------------------|-----------|-----------|------------|-------------|----------|-------|----------|-------|
|                       |           |           |            |             | REF.     | kg/ud | REF.     | kg/ud |
| RFLEXRF 16M16 ADAPTOR | 50        | 50        | 12/16      | 16          | 2/6699   | 0,01  | 2/6704   | 0,01  |
| RFLEXRF 21M20 ADAPTOR | 50        | 50        | 17/21      | 20          | 2/6700   | 0,01  | 2/6705   | 0,01  |
| RFLEXRF 28M25 ADAPTOR | 50        | 50        | 23/28      | 25          | 2/6701   | 0,01  | 2/6706   | 0,01  |
| RFLEXRF 34M32 ADAPTOR | 20        | 20        | 29/34      | 32          | 2/6702   | 0,01  | 2/6707   | 0,01  |
| RFLEXRF 42M40 ADAPTOR | 10        | 10        | 35/42      | 40          | 2/6703   | 0,02  | 2/6708   | 0,02  |

## SPFLEX WALL SUPPORT

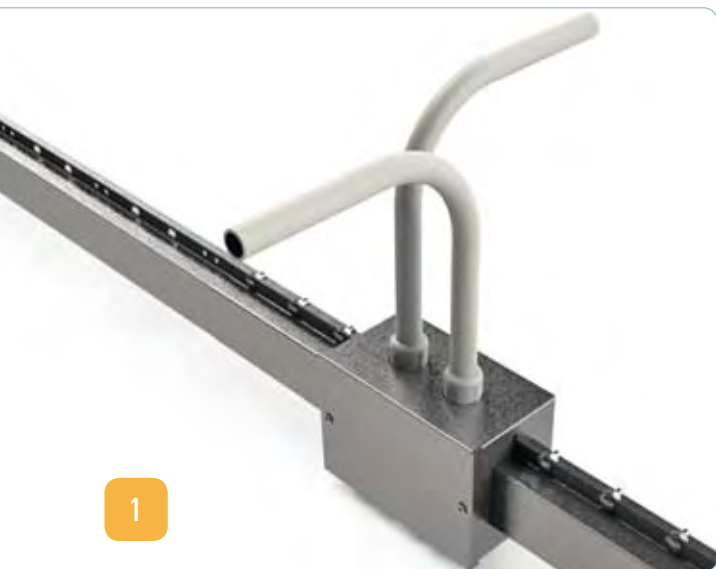


| DESCRIPTION       | UVM<br>ud | UVE<br>ud | Dext<br>mm | PA6-7016 |       | PA6-9011 |       |
|-------------------|-----------|-----------|------------|----------|-------|----------|-------|
|                   |           |           |            | REF.     | kg/ud | REF.     | kg/ud |
| SPFLEX 10 SUPPORT | 10        | 10        | 10         | 2/6681   | 0,01  | 2/6690   | 0,01  |
| SPFLEX 13 SUPPORT | 10        | 10        | 13         | 2/6682   | 0,01  | 2/6691   | 0,01  |
| SPFLEX 16 SUPPORT | 10        | 10        | 16         | 2/6683   | 0,01  | 2/6692   | 0,01  |
| SPFLEX 18 SUPPORT | 10        | 10        | 18         | 2/6684   | 0,01  | 2/6693   | 0,01  |
| SPFLEX 21 SUPPORT | 10        | 10        | 21         | 2/6685   | 0,01  | 2/6694   | 0,01  |
| SPFLEX 28 SUPPORT | 10        | 10        | 28         | 2/6686   | 0,01  | 2/6695   | 0,01  |
| SPFLEX 34 SUPPORT | 10        | 10        | 34         | 2/6687   | 0,01  | 2/6696   | 0,01  |
| SPFLEX 42 SUPPORT | 5         | 5         | 42         | 2/6688   | 0,02  | 2/6697   | 0,02  |
| SPFLEX 54 SUPPORT | 5         | 5         | 54         | 2/6689   | 0,02  | 2/6698   | 0,02  |

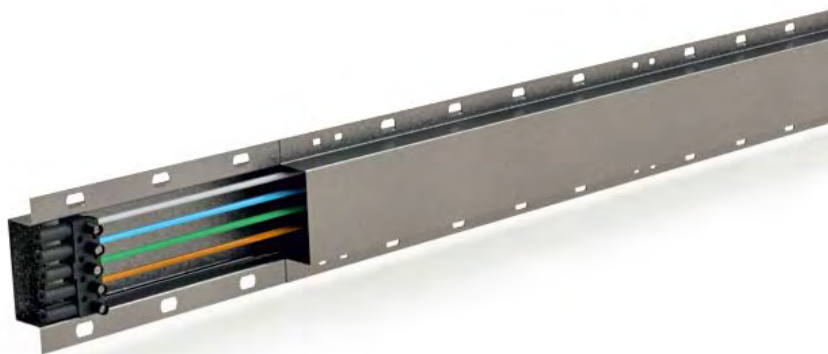
## RFLEX PG NUT



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | Dext<br>PG | PA6-7016 |       |
|----------------|-----------|-----------|------------|----------|-------|
|                |           |           |            | REF.     | kg/ud |
| RFLEX PG07 NUT | 100       | 100       | 7          | 0/0908   | 0,01  |
| RFLEX PG09 NUT | 100       | 100       | 9          | 0/0909   | 0,01  |
| RFLEX PG11 NUT | 100       | 100       | 11         | 0/0910   | 0,01  |
| RFLEX PG13 NUT | 100       | 100       | 13         | 0/0911   | 0,01  |
| RFLEX PG16 NUT | 100       | 100       | 16         | 0/0912   | 0,01  |
| RFLEX PG21 NUT | 100       | 100       | 21         | 0/0913   | 0,01  |
| RFLEX PG29 NUT | 100       | 100       | 29         | 0/0914   | 0,01  |
| RFLEX PG36 NUT | 100       | 100       | 36         | 0/0915   | 0,01  |
| RFLEX PG48 NUT | 100       | 100       | 48         | 0/0916   | 0,01  |



1



3



2



4

1. ADAPTING HEAD + MCR1250 + R1250 + BUSBAR-TRUNKING
2. BUSBAR-TRUNKING + BUSBAR-TRUNKING SUPPORT + VR8
3. END COVER + MCR1250 + R1250
4. 3FN SOCKET
5. BUSBAR-TRUNKING + END COVER + RFLEX + FLEXL
6. BUSBAR-TRUNKING + METALLIC STRAP

CEP



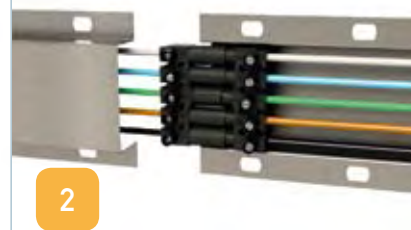
## BASORTRUNKING- BUSBAR SYSTEM

|                                 |          |
|---------------------------------|----------|
| ADVANTAGES .....                | Page 148 |
| REGULATIONS .....               | Page 148 |
| RANGE OF MODELS .....           | Page 149 |
| TECHNICAL CHARACTERISTICS ..... | Page 150 |
| ACCESSORIES .....               | Page 151 |

- BASOR ELECTRIC's busbar trunking system has been designed for the correct distribution of electrical energy in lighting systems for industries, premises, warehouses and shopping centres.
- It's manufactured in lengths of 3 m and 5 m in pregalvanised steel with drilled flanges at sides which allow them a quickly and comfortably installation suspended from ceiling and also lighting device can be suspended from this trunking. These busbar trunkings is used with 13 A sealed plugs.

# BASORTRUNKING





## DESCRIPTION

Busbar trunking systems have been designed for the correct distribution of electrical energy in lighting systems for industries, premises, warehouses and shopping centres. They are manufactured in lengths of 3 m and 5 m in pregalvanised steel with drilled flanges at the sides which allow them a quickly and comfortably suspended from ceiling and also lighting device can be suspended from this trunking. These trunkings is used with 13 A sealed plugs.

## ADVANTAGES

Busbar trunking systems have a great advantage, which is that they are supplied completely assembled. Just plug in and they're ¡READY!. BASORTRUNKING allows a lighting device to be suspended directly from trunking systems, cutting assembly time (see save suspended loads table). Other advantages include:

- The plug has a fuse which acts as a protector against short circuits to allow for a quick detection of breakdowns, which reduces considerably the time needed for repair.
- The busbar trunking system's housing confers it a great resistance to flexion, and the stapling between the two housings grants a sealing degree of IP5X.

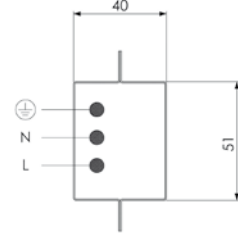
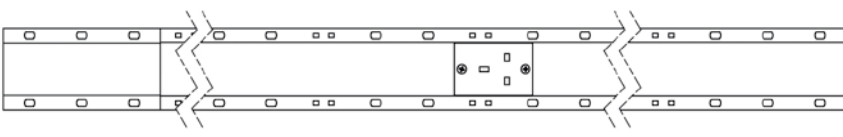
## REGULATIONS

- The busbar trunking system's manufacturing is subject to a series of comprehensive quality controls, all of which are described in the company's quality management system, in accordance with Standard UNE-EN ISO 9001.
- Electrified busbars have been designed and tested in accordance with Standard UNE-EN-60439 Parts 1 and 2.

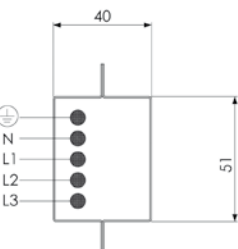
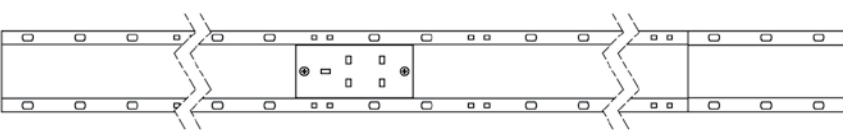
- 1 3FN Plug with fuse
- 2 Electrical connection
- 3 Two mounted pieces

## RANGE OF MODELS

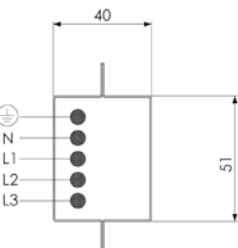
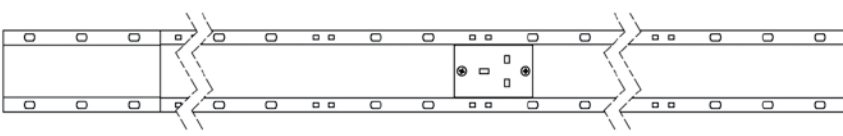
## Series A

|                                                                                   |                                                                                    |                                                                                          |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
|  |  | <p>Length of 3 m<br/>FN socket<br/>3 cables<br/>1 plug / 2 plugs</p> <p>A20<br/>A202</p> |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

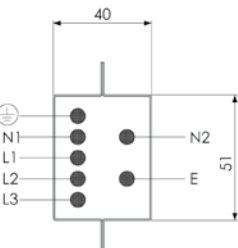
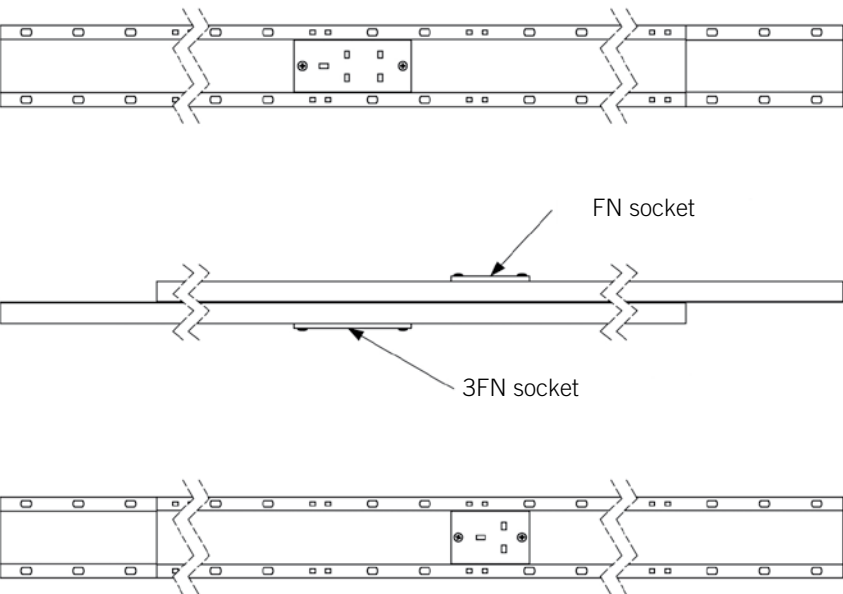
## Series B

|                                                                                   |                                                                                    |                                                                                                           |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  |  | <p>Length of 3 m<br/>3FN socket<br/>5 cables<br/>1 plug / 2 plugs</p> <p>B20<br/>B202<br/>B25<br/>B40</p> |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|

## Series C

|                                                                                     |                                                                                      |                                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|  |  | <p>Length of 5 m<br/>FN socket<br/>5 cables<br/>3 plugs</p> <p>C20</p> |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------|

## Series E

|                                                                                     |                                                                                                                         |                                                                                                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|  |  <p>FN socket</p> <p>3FN socket</p> | <p>Length of 3 m<br/>3FN and FN (emergency) socket<br/>7 cables<br/>1 plug / 2 plugs</p> <p>E202<br/>E25</p> |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|

## MODELS

| Model | Description                          | Ref.   | Number of active conductors | In (A) | Area Cu conductors (mm <sup>2</sup> ) | Frequency (Hz) | Numbers of plugs | Plug type | Emergency | Length (m) | Weight per stretch (Kg) |
|-------|--------------------------------------|--------|-----------------------------|--------|---------------------------------------|----------------|------------------|-----------|-----------|------------|-------------------------|
| B20   | MTS.BASORTRUNKING 3FN25 5PGS L3      | 2/6775 | 4                           | 20     | 2,5                                   | 50             | 1                | 3FN       | No        | 3          | 3,97                    |
| B202  | MTS.BASORTRUNKING 3FN25 2T 5PGS L3   | 2/6777 | 4                           | 20     | 2,5                                   | 50             | 2                | 3FN       | No        | 3          | 4,05                    |
| E202  | MTS.BASORTRUNKING 3FN25+E 2T 5PGS L3 | 2/6788 | 4                           | 20     | 2,5                                   | 50             | 2+1              | 3FN+FN    | Si        | 3          | 4,35                    |
| C20   | MTS.BASORTRUNKING 3FN25 3PGS L5      | 2/0385 | 4                           | 20     | 2,5                                   | 50             | 3                | FN        | No        | 5          | 6,78                    |
| A20   | MTS.BASORTRUNKING FN25 3PGS L3       | 2/6478 | 2                           | 20     | 2,5                                   | 50             | 1                | FN        | No        | 3          | 3,74                    |
| A202  | MTS.BASORTRUNKING FN25 2T 3PGS L3    | 2/6778 | 2                           | 20     | 2,5                                   | 50             | 2                | FN        | No        | 3          | 3,81                    |
| B25   | MTS.BASORTRUNKING 3FN40 5PGS L3      | 2/6789 | 4                           | 25     | 4                                     | 50             | 1                | 3FN       | No        | 3          | 4,14                    |
| E25   | MTS.BASORTRUNKING 3FN40+E 5PGS L3    | 2/6790 | 4                           | 25     | 4                                     | 50             | 1+1              | 3FN+FN    | Si        | 3          | 4,51                    |
| B40   | MTS.BASORTRUNKING 3FN60 5PGS L3      | 2/6791 | 4                           | 40     | 6                                     | 50             | 1                | 3FN       | No        | 3          | 5,47                    |

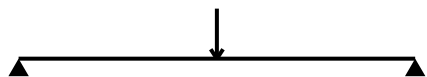
## TECHNICAL CHARACTERISTICS

### • Sealing degree:

In accordance with Standard UNE 20324 for the degrees of protection provided by enclosures, our busbar trunking system is classified as IP 5X, where the first digit indicates the unit's protection against the intrusion of solid objects.

### • Maximum save suspended loads:

The save suspended working load depends on the distance between supports, as illustrated in the table.



For a maximum deflection of 1/350 of the distance between supports

| Maximum save load             |    |      |     |      |    |
|-------------------------------|----|------|-----|------|----|
| Distance between supports (m) | 2  | 2,25 | 2,5 | 2,75 | 3  |
| Concentrated load (Kg)        | 30 | 27   | 24  | 21   | 17 |

### • Voltage drop:

The values included in the table correspond to a unitary voltage drop, should the power supply only enter the system from one side of the busbar trunking system and if the load is distributed along the whole of the line.

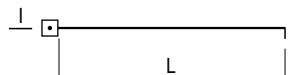
| Model                                | Ref.   | Unitary voltage drop [V/A.km] at 40°C |              |              |
|--------------------------------------|--------|---------------------------------------|--------------|--------------|
|                                      |        | Cos φ=0,8                             | Cos φ=0,9    | Cos φ=1      |
| MTS.BASORTRUNKING 3FN25 5PGS L3      | 2/6775 | 5,62                                  | 6,30         | 6,95         |
| MTS.BASORTRUNKING 3FN25 2T 5PGS L3   | 2/6777 | 5,70                                  | 6,40         | 7,06         |
| MTS.BASORTRUNKING 3FN25+E 2T 5PGS L3 | 2/6788 | 5,70/5,62(E)                          | 6,40/6,30(E) | 7,06/6,95(E) |
| MTS.BASORTRUNKING 3FN25 3PGS L5      | 2/0385 | 5,73                                  | 6,43         | 7,09         |
| MTS.BASORTRUNKING FN25 3PGS L3       | 2/6478 | 5,59                                  | 6,27         | 6,92         |
| MTS.BASORTRUNKING FN25 2T 3PGS L3    | 2/6778 | 5,67                                  | 6,36         | 7,02         |
| MTS.BASORTRUNKING 3FN40 5PGS L3      | 2/6789 | 3,51                                  | 3,93         | 4,33         |
| MTS.BASORTRUNKING 3FN40+E 5PGS L3    | 2/6790 | 3,51/3,51(E)                          | 3,93/3,93(E) | 4,33/4,33(E) |
| MTS.BASORTRUNKING 3FN60 5PGS L3      | 2/6791 | 2,36                                  | 2,64         | 2,89         |

The Unitary Voltage Drop being:  $e_u = k \cdot (e/L \cdot I)$

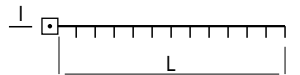
|         |                                |
|---------|--------------------------------|
| $e_u$ , | unitary voltage drop in volts  |
| $e$ ,   | voltage drop in volts          |
| $L$ ,   | length of the cable tray in km |
| $I$ ,   | service intensity in amps      |
| $k$ ,   | current distribution factor    |

Depending on the circuit's type of power supply and on the distribution of the electric loads, a current distribution factor (k) is applied.

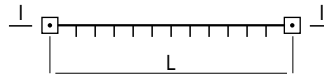
$k=1$  Power supplied from one side and load at the end of the busbar



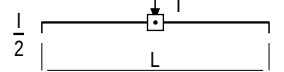
$K=0.5$  Power supplied from one side and load distributed along the busbar



$K=0.25$  Power supplied from both sides and loads distributed along the busbar



$K=0.25$  Power supplied from the center and loads until the end of both sides



$K=0.125$  Power supplied from the center and loads distributed along the busbar.



## ACCESSORIES

| Accessory          | Und./pack | Ref.   |
|--------------------|-----------|--------|
| Trunking support   | 1         | 2/5534 |
| Adapting head      | 1         | 2/0400 |
| End cover          | 1         | 2/0401 |
| FN Plug with fuse  | 1         | 2/0402 |
| 3FN Plug with fuse | 1         | 2/6513 |
| FN Socket          | 1         | 1/0436 |
| 3FN Socket         | 1         | 1/2365 |
| Fuse               | 1         | 2/0404 |



**N**  
NEW

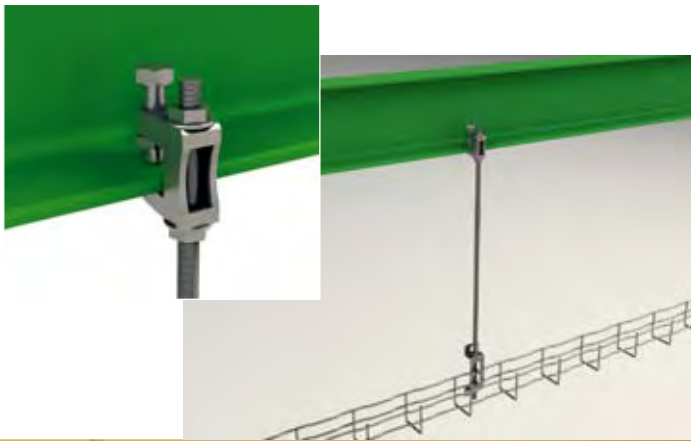
## 3FN Mobile connexion

### Characteristics:

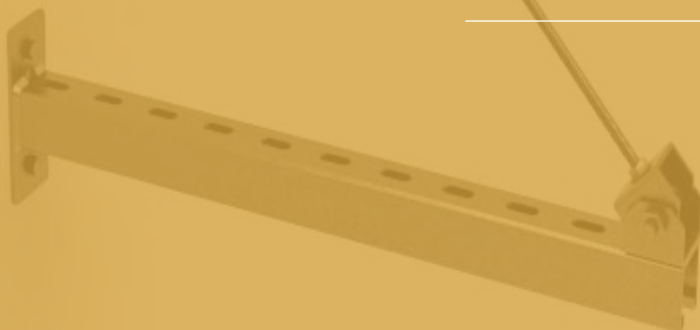
Each plug has a fuse which acts as a protector against short circuits.

The three phases are installed in each base, allowing the user to choose the desired phase by modifying the connector's position in the plug.





ACC







## INSTALLATION ACCESORIES AND ASSEMBLY SYSTEMS

|                              |          |
|------------------------------|----------|
| ASSEMBLY SYSTEMS 41/82 ..... | Page 154 |
| ASSEMBLY PROFILES .....      | Page 162 |
| WALL FIXATION PROFILES ..... | Page 164 |
| FASTENERS TO BEAM .....      | Page 165 |
| THREADED ELEMENTS .....      | Page 166 |
| ANCHORS FOR CONCRETE .....   | Page 168 |
| FASTENERS TO CONDUIT .....   | Page 169 |

- ACC assembly systems are a family of different solutions of profiles, threaded rods' accessories and beam accessories.

# INSTALLATION ASSEMBLY

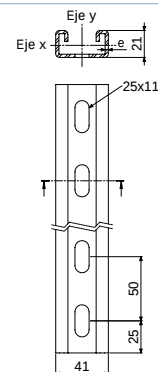
# ACCESSORIES SYSTEMS

## 41X21 PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | e<br>mm | A<br>cm2 | Wx<br>cm3 | Wy<br>cm3 | GS     |      | GC     |      |
|-------------|----------|----------|---------|----------|-----------|-----------|--------|------|--------|------|
|             |          |          |         |          |           |           | REF.   | kg/m | REF.   | kg/m |
| 41X21X1,5   | 3        | 3        | 1,5     | 1,4      | 0,8       | 1,9       | 2/6366 | 1,26 | -      | 1,35 |
| 41X21X2,5   | 3        | 3        | 2,5     | 2,1      | 1,1       | 2,7       | 2/0235 | 1,71 | 2/0236 | 1,8  |

For more technical information, please consult page 211.

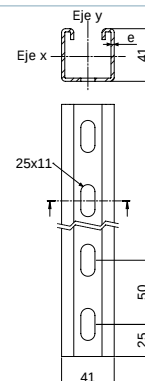


## 41X21 PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | e<br>mm | A<br>cm2 | Wx<br>cm3 | Wy<br>cm3 | GS     |      | GC     |      |
|-------------|----------|----------|---------|----------|-----------|-----------|--------|------|--------|------|
|             |          |          |         |          |           |           | REF.   | kg/m | REF.   | kg/m |
| 41X41X1,5   | 3        | 3        | 1,5     | 2,0      | 2,1       | 2,9       | 2/6365 | 1,67 | -      | 1,79 |
| 41X41X2,5   | 3        | 3        | 2,5     | 3,1      | 3,2       | 4,5       | 2/0233 | 2,53 | 2/0234 | 2,66 |

For more technical information, please consult page 211.

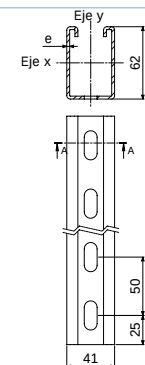


## 61X41 PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | e<br>mm | A<br>cm2 | Wx<br>cm3 | Wy<br>cm3 | GS   |      | GC   |      |
|-------------|----------|----------|---------|----------|-----------|-----------|------|------|------|------|
|             |          |          |         |          |           |           | REF. | kg/m | REF. | kg/m |
| 62X41X2,5   | 3        | 3        | 2,5     | 4,2      | 6,1       | 6,4       | -    | 4,42 | -    | 4,54 |

For more technical information, please consult page 211.

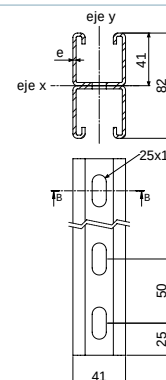


## 81X41 PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | e<br>mm | A<br>cm2 | Wx<br>cm3 | Wy<br>cm3 | CINCADO |      | GC     |      |
|-------------|----------|----------|---------|----------|-----------|-----------|---------|------|--------|------|
|             |          |          |         |          |           |           | REF.    | kg/m | REF.   | kg/m |
| 82X41X2,5   | 3        | 3        | 2,5     | 6,9      | 9,5       | 9,1       | -       | 5,05 | 2/5573 | 5,31 |

For more technical information, please consult page 211.



## FLOOR OR CEILING HEADS



41x41 HEAD



82x41 HEAD



41x41 BASE SUPPORT



41x41 L BASE SUPPORT



41x82 ARTICULATE GUSSET



H 41x82

## CONNECTION BETWEEN PROFILES



41x82 ADAPTABLE CROSS



41x82 T ADAPTABLE JOINT



VR ADJUSTABLE SET



A 41x82



B 41x82



C 41x82



D 41x82



E 41x82



F 41x82



G 41x82

## ACCESSORIES



PVC CAP



SPRING NUT



NON-SLIPPERY NUT



TWIRL STUD NUT

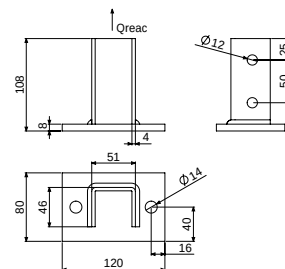


BOLTS

## 41X41 HEAD



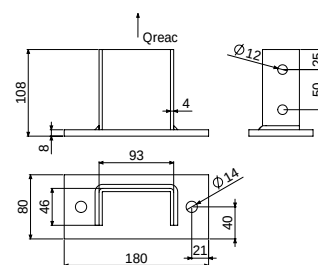
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreac<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|-------------|------------|--------|-------|
|             |           |           |             |            | REF.   | kg/ud |
| 41X41 HEAD  | 1         | 1         | 700         | 40         | 2/5622 | 0,83  |



## 81X41 HEAD



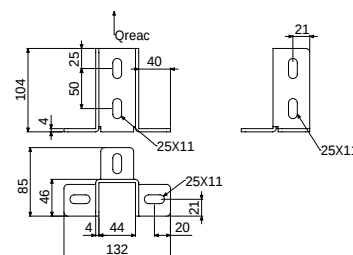
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreac<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|-------------|------------|--------|-------|
|             |           |           |             |            | REF.   | kg/ud |
| 82X41 HEAD  | 1         | 1         | 1100        | 40         | 2/5574 | 1,44  |



## 41X41 BASE SUPPORT



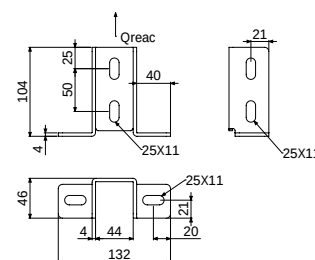
| DESCRIPTION        | UVM<br>ud | UVE<br>ud | Qreac<br>kg | Pap<br>N-m | GC     |       |
|--------------------|-----------|-----------|-------------|------------|--------|-------|
|                    |           |           |             |            | REF.   | kg/ud |
| 41X41 BASE SUPPORT | 1         | 1         | 700         | 40         | 2/6471 | 0,51  |



## 41X41 L BASE SUPPORT



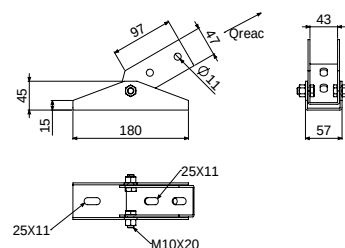
| DESCRIPTION          | UVM<br>ud | UVE<br>ud | Qreac<br>kg | Pap<br>N-m | GC     |       |
|----------------------|-----------|-----------|-------------|------------|--------|-------|
|                      |           |           |             |            | REF.   | kg/ud |
| 41X41 L BASE SUPPORT | 1         | 1         | 600         | 40         | 2/6472 | 0,44  |



### 41x82 ARTICULATED GUSSET



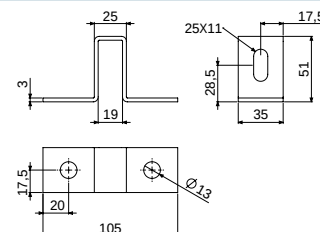
| DESCRIPTION              | UVM<br>ud | UVE<br>ud | Qreac<br>kg | Pap<br>N-m | GC     |       |
|--------------------------|-----------|-----------|-------------|------------|--------|-------|
|                          |           |           |             |            | REF.   | kg/ud |
| 41x82 ARTICULATED GUSSET | 1         | 1         | 1000        | 40         | 2/6475 | 0,82  |



### SP UNION SUPPORT



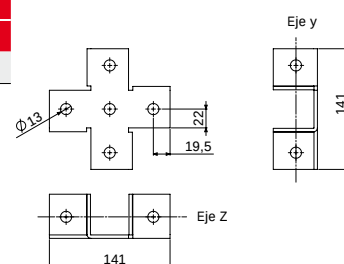
| DESCRIPTION      | UVM<br>ud | UVE<br>ud | Pap<br>N-m | GC     |       |
|------------------|-----------|-----------|------------|--------|-------|
|                  |           |           |            | REF.   | kg/ud |
| SP UNION SUPPORT | 1         | 1         | 20         | 2/6476 | 0,15  |



### 41x82 ADAPTABLE CROSS



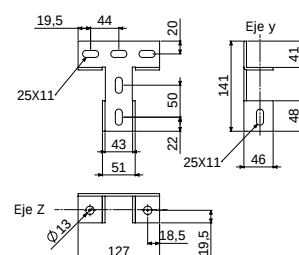
| DESCRIPTION           | UVM<br>ud | UVE<br>ud | Reducc<br>z | Reducc<br>y | Pap<br>N-m | GC     |       |
|-----------------------|-----------|-----------|-------------|-------------|------------|--------|-------|
|                       |           |           |             |             |            | REF.   | kg/ud |
| 41x82 ADAPTABLE CROSS | 1         | 1         | 0%          | 0%          | 40         | 2/6473 | 0,56  |



### 41x82 T ADAPTABLE JOINT



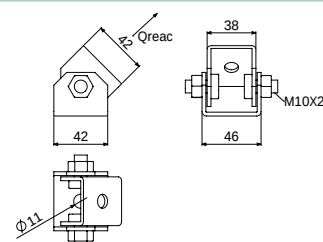
| DESCRIPTION             | UVM<br>ud | UVE<br>ud | Reducc<br>z | Reducc<br>y | Pap<br>N-m | GC     |       |
|-------------------------|-----------|-----------|-------------|-------------|------------|--------|-------|
|                         |           |           |             |             |            | REF.   | kg/ud |
| 41x82 T ADAPTABLE JOINT | 1         | 1         | 0%          | 0%          | 40         | 2/6474 | 0,51  |



### VR ADJUSTABLE SET



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | Qreac<br>kg | Pap<br>N-m | GC     |       |
|-------------------|-----------|-----------|-------------|------------|--------|-------|
|                   |           |           |             |            | REF.   | kg/ud |
| VR ADJUSTABLE SET | 1         | 1         | 500         | 20         | 2/6477 | 0,51  |

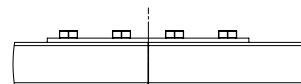
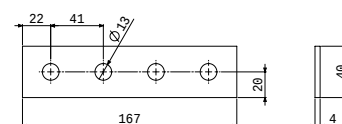




## A 41X82



| DESCRIPTION | UVM<br>ud | UVE<br>ud | Reducc<br>z | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|-------------|------------|--------|-------|
|             |           |           |             |            | REF.   | kg/ud |
| A 41/82     | 1         | 110       | 20%         | 40         | 2/6311 | 0,2   |

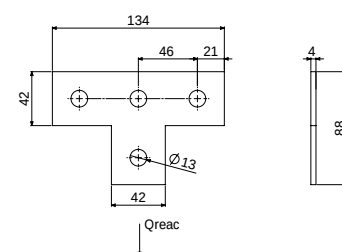


Eje z

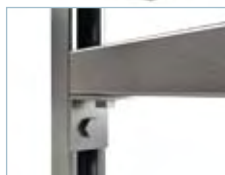
## B 41X82



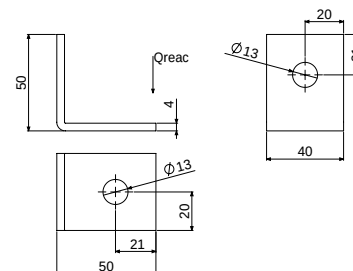
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreacc<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|--------------|------------|--------|-------|
|             |           |           |              |            | REF.   | kg/ud |
| B 41/82     | 1         | 60        | 350          | 40         | 2/6312 | 0,23  |



## C 41X82



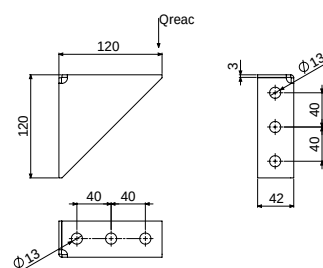
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreacc<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|--------------|------------|--------|-------|
|             |           |           |              |            | REF.   | kg/ud |
| C 41/82     | 1         | 1         | 350          | 40         | 2/6313 | 0,11  |



## D 41X82



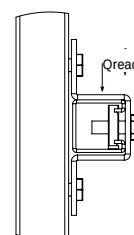
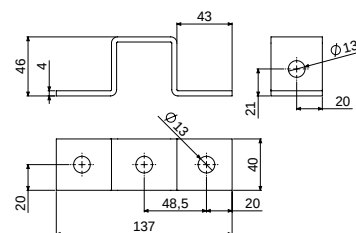
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreacc<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|--------------|------------|--------|-------|
|             |           |           |              |            | REF.   | kg/ud |
| D 41/82     | 1         | 40        | 1.050        | 40         | 2/6314 | 0,36  |



## E 41X82



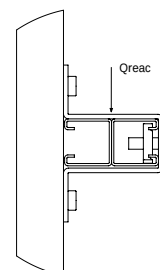
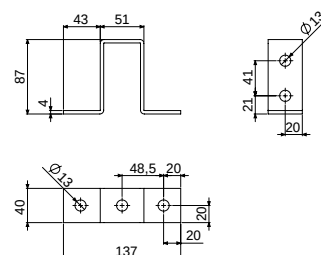
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreacc<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|--------------|------------|--------|-------|
|             |           |           |              |            | REF.   | kg/ud |
| E 41/82     | 1         | 40        | 700          | 40         | 2/6315 | 0,25  |



## F 41X82



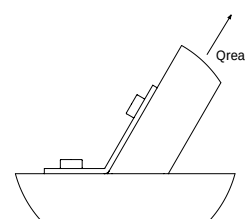
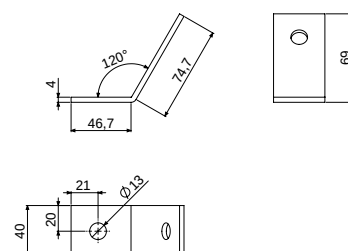
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreacc<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|--------------|------------|--------|-------|
|             |           |           |              |            | REF.   | kg/ud |
| F 41/82     | 1         | 25        | 700          | 40         | 2/6316 | 0,35  |



## G 41X82



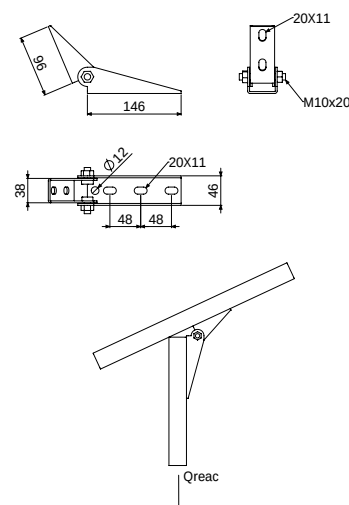
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreacc<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|--------------|------------|--------|-------|
|             |           |           |              |            | REF.   | kg/ud |
| G 41/82     | 1         | 1         | 250          | 40         | 2/6317 | 0,11  |



## H 41X82



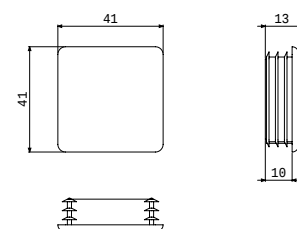
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreacc<br>kg | Pap<br>N-m | GC     |       |
|-------------|-----------|-----------|--------------|------------|--------|-------|
|             |           |           |              |            | REF.   | kg/ud |
| H 41/82     | 1         | 1         | 800          | 40         | 2/6948 | 0,72  |



## PVC CAP



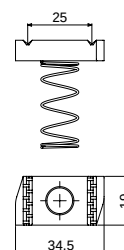
| DESCRIPTION   | UVM<br>ud | UVE<br>ud | PVC    |       |
|---------------|-----------|-----------|--------|-------|
|               |           |           | REF.   | kg/ud |
| 41X41 PVC CAP | 100       | 100       | 2/5627 | 0,01  |



## SPRING NUT



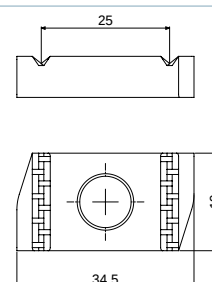
| DESCRIPTION    | UVM<br>ud | UVE<br>ud | Qtrac<br>kg | Qcort<br>kg | CINCADO |       |
|----------------|-----------|-----------|-------------|-------------|---------|-------|
|                |           |           |             |             | REF.    | kg/ud |
| SPRING NUT M6  | 100       | 100       | 300         | 150         | 0/0427  | 0,03  |
| SPRING NUT M8  | 100       | 100       | 500         | 350         | 0/0455  | 0,03  |
| SPRING NUT M10 | 100       | 100       | 500         | 500         | 0/0336  | 0,04  |



## NON-SLIPPERY NUT



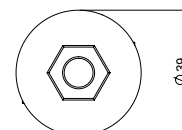
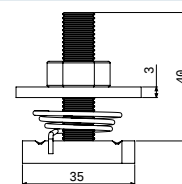
| DESCRIPTION          | UVM<br>ud | UVE<br>ud | Qtrac<br>kg | Qcort<br>kg | CINCADO |       |
|----------------------|-----------|-----------|-------------|-------------|---------|-------|
|                      |           |           |             |             | REF.    | kg/ud |
| NON-SLIPPERY NUT M8  | 100       | 100       | 500         | 350         | 0/0494  | 0,03  |
| NON-SLIPPERY NUT M10 | 100       | 100       | 500         | 500         | 2/5543  | 0,03  |



## TWIRL STUD NUT



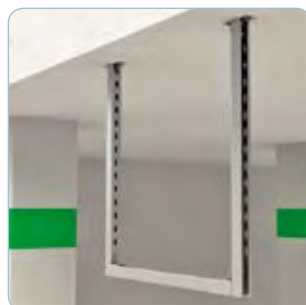
| DESCRIPTION        | UVM | UVE | Qtrac | Qcort | CINCADO |       |
|--------------------|-----|-----|-------|-------|---------|-------|
|                    | ud  | ud  | kg    | kg    | REF.    | kg/ud |
| TWIRL STUD NUT M8  | 100 | 100 | 500   | 350   | -       | 0,10  |
| TWIRL STUD NUT M10 | 100 | 100 | 500   | 500   | 0/0907  | 0,10  |



## BOLTS



| DESCRIPTION              | UVM | UVE | Pap | CINCADO |       | I304   |       |
|--------------------------|-----|-----|-----|---------|-------|--------|-------|
|                          | ud  | ud  | N-m | REF.    | kg/ud | REF.   | kg/ud |
| BOLT DIN 933 M10X30 D8.8 | 100 | 100 | 40  | 0/0512  | 0,03  | 0/0320 | 0,03  |
| BOLT DIN 933 M8X20 D8.8  | 100 | 100 | 25  | 0/0310  | 0,03  | 0/0318 | 0,03  |
| BOLT DIN 912 M8X70 D8.8  | 100 | 100 | 25  | 0/0930  | 0,05  | 0/0939 | 0,05  |
| BOLT DIN 912 M8X55 D8.8  | 100 | 100 | 25  | 0/0940  | 0,04  | 0/0941 | 0,04  |
| BOLT DIN 933 M6X20 D8.8  | 100 | 100 | 10  | 0/0727  | 0,02  | 0/0330 | 0,02  |

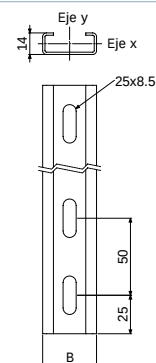


## RA PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | e<br>mm | A<br>cm <sup>2</sup> | Wx<br>cm <sup>3</sup> | Wy<br>cm <sup>3</sup> | GS     |      | GC     |       |
|-------------|----------|----------|---------|---------|----------------------|-----------------------|-----------------------|--------|------|--------|-------|
|             |          |          |         |         |                      |                       |                       | REF.   | kg/m | REF.   | kg/m  |
| RA 35       | 3        | 30       | 35      | 1,5     | 0,9                  | 0,28                  | 1,00                  | 2/0237 | 0,79 | 2/0238 | 0,869 |
| RA 50       | 3        | 30       | 50      | 1,5     | 1,1                  | 0,30                  | 1,68                  | 2/0239 | 0,99 | 2/0240 | 1,089 |

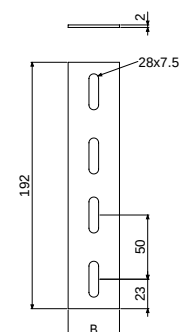
For more technical information, please consult page 211.



## RA JOINT PLATE



| DESCRIPTION | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|-------------|-----------|-----------|--------|-------|--------|-------|
|             |           |           | REF.   | kg/ud | REF.   | kg/ud |
| UNION RA 35 | 1         | 200       | 2/1122 | 0,07  | 2/1123 | 0,08  |
| UNION RA 50 | 1         | 150       | 2/1124 | 0,11  | 2/3473 | 0,12  |

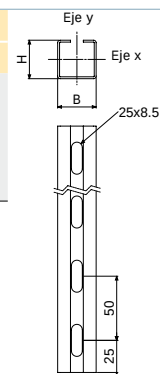


## CT PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | B<br>mm | H<br>mm | e<br>mm | A<br>cm <sup>2</sup> | Wx<br>cm <sup>3</sup> | Wy<br>cm <sup>3</sup> | GS     |      | GC     |      | BICRO  |      |
|-------------|----------|----------|---------|---------|---------|----------------------|-----------------------|-----------------------|--------|------|--------|------|--------|------|
|             |          |          |         |         |         |                      |                       |                       | REF.   | kg/m | REF.   | kg/m | REF.   | kg/m |
| CT 40x20 L3 | 3        | 24       | 40      | 20      | 1,5     | 12,5                 | 0,65                  | 1,63                  | 2/4471 | 0,99 | 2/0246 | 1,09 | -      | -    |
| CT 40x20 L2 | 2        | 24       | 40      | 20      | 1,5     | 12,5                 | 0,65                  | 1,63                  | -      | -    | -      | -    | 2/2067 | 1,09 |
| CT 30x30 L3 | 3        | 24       | 30      | 30      | 1,5     | 14,0                 | 1,11                  | 1,49                  | 2/6784 | 1,08 | 2/6785 | 1,19 | -      | -    |
| CT 20x10 L2 | 2        | 40       | 20      | 10      | 1,5     | 3,6                  | 0,09                  | 0,25                  | 2/0242 | 0,34 | -      | -    | 2/0241 | 0,38 |

For more technical information, please consult page 211.

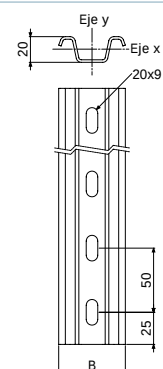


## SVO PROFILE



| DESCRIPTION | UVM<br>m | UVE<br>m | e<br>mm | A<br>cm <sup>2</sup> | Wx<br>cm <sup>3</sup> | Wy<br>cm <sup>3</sup> | GS     |      | GC     |      |
|-------------|----------|----------|---------|----------------------|-----------------------|-----------------------|--------|------|--------|------|
|             |          |          |         |                      |                       |                       | REF.   | kg/m | REF.   | kg/m |
| SVO PROFILE | 3        | 24       | 1,5     | 1,5                  | 0,6                   | 1,4                   | 2/5313 | 1,20 | 2/5443 | 1,32 |

For more technical information, please consult page 211.



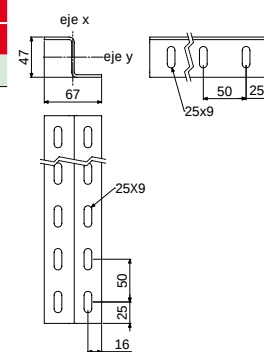


## Z PROFILE

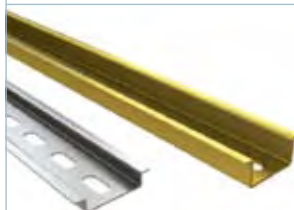


| DESCRIPTION | UVM | UVE | e  | A               | Wx              | Wy              | GS   |      | GC     |      |
|-------------|-----|-----|----|-----------------|-----------------|-----------------|------|------|--------|------|
|             | m   | m   | mm | cm <sup>2</sup> | cm <sup>3</sup> | cm <sup>3</sup> | REF. | kg/m | REF.   | kg/m |
| Z PROFILE   | 3   | 3   | 3  | 2,5             | 1,7             | 4,0             | -    | 2,21 | 2/6406 | 2,30 |

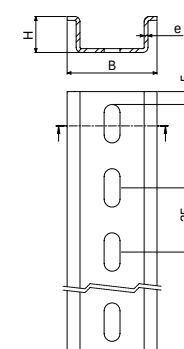
For more technical information, please consult page 211.



## OMEGA DIN-RAIL



| DESCRIPTION | UVM | UVE | e  | GS     |      | BICRO  |      |
|-------------|-----|-----|----|--------|------|--------|------|
|             | m   | m   | mm | REF.   | kg/m | REF.   | kg/m |
| HIGH OMEGA  | 2   | 40  | 2  | 2/0248 | 0,36 | 2/0247 | 0,36 |
| LOW OMEGA   | 2   | 40  | 2  | 2/0250 | 0,69 | 2/0249 | 0,70 |



## SVP AB SUPPORT

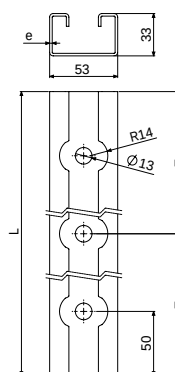


| DESCRIPTION  | UVM<br>ud | UVE<br>ud | e<br>mm | L<br>mm | GC     |       |
|--------------|-----------|-----------|---------|---------|--------|-------|
|              |           |           |         |         | REF.   | kg/ud |
| SVP AB L500  | 1         | 1         | 2       | 500     | 2/3633 | 1,26  |
| SVP AB L700  | 1         | 1         | 2       | 700     | 2/5953 | 1,76  |
| SVP AB L800  | 1         | 1         | 2       | 800     | 2/4958 | 1,98  |
| SVP AB L1000 | 1         | 1         | 2       | 1000    | 2/6340 | 2,50  |

This support is designed for mounting directly to wall easy.

The openings on the open side of the profile facilitates the use of tools.

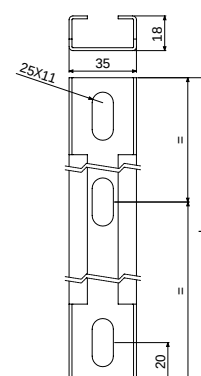
The model 500 dose not have the central drill.



## PB PROFILE



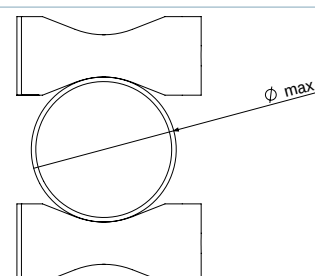
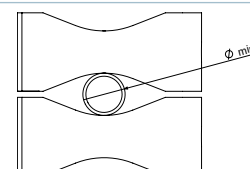
| DESCRIPTION     | UVM<br>ud | UVE<br>ud | e<br>mm | L<br>mm | GS     |       | GC     |       |
|-----------------|-----------|-----------|---------|---------|--------|-------|--------|-------|
|                 |           |           |         |         | REF.   | kg/ud | REF.   | kg/ud |
| PB 800 PROFILE  | 1         | 1         | 1,5     | 800     | 2/3648 | 0,73  | 2/3649 | 0,80  |
| PB 1000 PROFILE | 1         | 1         | 1,5     | 1000    | 2/6370 | 0,92  | 2/5959 | 1,01  |



## PB CLAMP



| DESCRIPTION       | UVM<br>ud | UVE<br>ud | Ømin<br>mm | Ømáx<br>mm | NYLON  |       |
|-------------------|-----------|-----------|------------|------------|--------|-------|
|                   |           |           |            |            | REF.   | kg/ud |
| CLAMP 14-48 NYLON | 1         | 1         | 14         | 48         | 2/6993 | 0,05  |
| CLAMP 24-72 NYLON | 1         | 1         | 24         | 72         | 2/6994 | 0,07  |



## SVP 500



## SVP 800



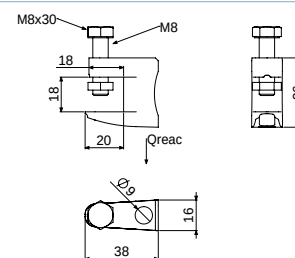
## MOUNT CLAMPS ON RAIL



## BEAM CLAMP VR8



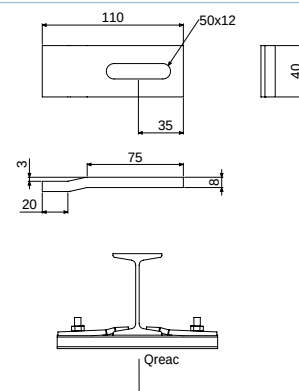
| DESCRIPTION    | UVM<br>ud | UVE<br>ud | Qreac<br>kg | CINCADO |       |
|----------------|-----------|-----------|-------------|---------|-------|
|                |           |           |             | REF.    | kg/ud |
| BEAM CLAMP VR8 | 1         | 1         | 120         | 2/6816  | 0,08  |



## BEAM-PROFILE CLAMP



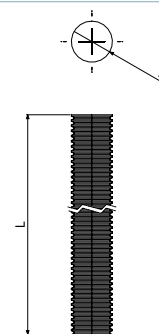
| DESCRIPTION        | UVM<br>ud | UVE<br>ud | Qreac<br>kg | GC     |       |
|--------------------|-----------|-----------|-------------|--------|-------|
|                    |           |           |             | REF.   | kg/ud |
| BEAM-PROFILE CLAMP | 1         | 1         | 1000        | 2/5624 | 0,17  |



## THREADED ROD



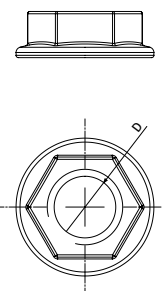
| DESCRIPTION         | UVM<br>ud | UVE<br>ud | Qtrac<br>kg | CINCADO |       |
|---------------------|-----------|-----------|-------------|---------|-------|
|                     |           |           |             | REF.    | kg/ud |
| THREADED ROD M6 L1  | 10        | 100       | 400         | 0/0678  | 0,32  |
| THREADED ROD M8 L1  | 10        | 50        | 800         | 2/3397  | 0,35  |
| THREADED ROD M10 L1 | 10        | 10        | 1400        | 2/5535  | 0,59  |
| THREADED ROD M12 L2 | 10        | 10        | 2500        | 2/6502  | 1,64  |
| CONNECTOR M6        | 1         | 1         | -           | 2/6323  | 0,03  |
| CONNECTOR M8        | 1         | 1         | -           | 2/4462  | 0,04  |



## NUT AND WASHER DIN6923



| DESCRIPTION    | UVM<br>ud | UVE<br>ud | CINCADO |       |
|----------------|-----------|-----------|---------|-------|
|                |           |           | REF.    | kg/ud |
| NUT M6 DIN6923 | 100       | 100       | 0/0337  | 0,01  |
| NUT M8 DIN6923 | 100       | 100       | 0/0338  | 0,01  |



## BOLTS

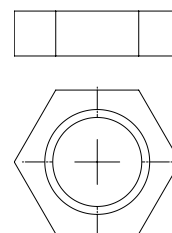


| DESCRIPTION              | UVM<br>ud | UVE<br>ud | Pap<br>N-m | CINCADO |       | I304   |       |
|--------------------------|-----------|-----------|------------|---------|-------|--------|-------|
|                          |           |           |            | REF.    | kg/ud | REF.   | kg/ud |
| BOLT DIN 933 M10X30 D8.8 | 100       | 100       | 40         | 0/0512  | 0,03  | 0/0320 | 0,03  |
| BOLT DIN 933 M8X20 D8.8  | 100       | 100       | 25         | 0/0310  | 0,03  | 0/0318 | 0,03  |
| BOLT DIN 912 M8X70 D8.8  | 100       | 100       | 25         | 0/0930  | 0,05  | 0/0939 | 0,05  |
| BOLT DIN 912 M8X55 D8.8  | 100       | 100       | 25         | 0/0940  | 0,04  | 0/0941 | 0,04  |
| BOLT DIN 933 M6X20 D8.8  | 100       | 100       | 10         | 0/0727  | 0,02  | 0/0330 | 0,02  |

## NUT DIN934



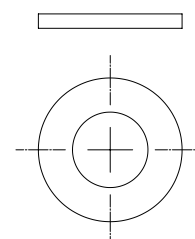
| DESCRIPTION    | UVM<br>ud | UVE<br>ud | CINCADO |       | I304   |       |
|----------------|-----------|-----------|---------|-------|--------|-------|
|                |           |           | REF.    | kg/ud | REF.   | kg/ud |
| NUT M6 DIN934  | 100       | 100       | 0/0710  | 0,01  | -      | 0,01  |
| NUT M8 DIN934  | 100       | 100       | 0/0339  | 0,01  | 0/0344 | 0,01  |
| NUT M10 DIN934 | 100       | 100       | 0/0340  | 0,01  | 0/0343 | 0,01  |



## WASHER DIN125



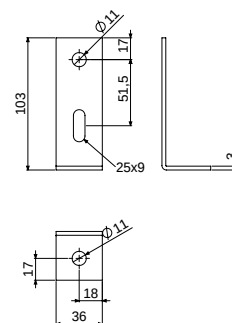
| DESCRIPTION       | UVM<br>ud | UVE<br>ud | CINCADO |       | I304   |       |
|-------------------|-----------|-----------|---------|-------|--------|-------|
|                   |           |           | REF.    | kg/ud | REF.   | kg/ud |
| WASHER M6 DIN125  | 100       | 100       | 0/0711  | 0,01  | -      | 0,01  |
| WASHER M8 DIN125  | 100       | 100       | 0/0292  | 0,01  | 0/0299 | 0,01  |
| WASHER M10 DIN125 | 100       | 100       | 0/0649  | 0,01  | 0/0294 | 0,01  |



### SBL



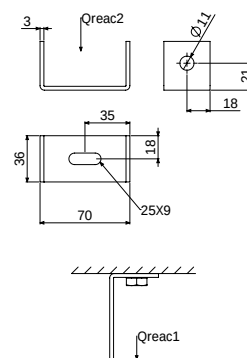
| DESCRIPTION | UVM<br>ud | UVE<br>ud | GS     |       | GC     |       |
|-------------|-----------|-----------|--------|-------|--------|-------|
|             |           |           | REF.   | kg/ud | REF.   | kg/ud |
| SBL         | 1         | 1         | 2/0351 | 0,11  | 2/0361 | 0,12  |



### SBC



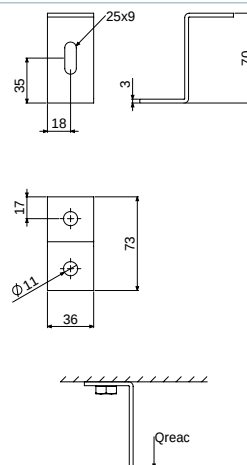
| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreac 1<br>kg | Qreac 2<br>kg | GS     |       | GC     |       |
|-------------|-----------|-----------|---------------|---------------|--------|-------|--------|-------|
|             |           |           |               |               | REF.   | kg/ud | REF.   | kg/ud |
| SBC         | 1         | 1         | 40            | 40            | 2/0352 | 0,11  | 2/0362 | 0,12  |



### SBZ



| DESCRIPTION | UVM<br>ud | UVE<br>ud | Qreac<br>kg | GS     |       | GC     |       |
|-------------|-----------|-----------|-------------|--------|-------|--------|-------|
|             |           |           |             | REF.   | kg/ud | REF.   | kg/ud |
| SBZ         | 1         | 1         | 35          | 2/0354 | 0,11  | 2/0364 | 0,12  |



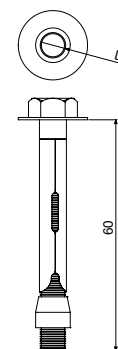


## CCM BASORFIX ANCHOR



| DESCRIPTION              | UVM<br>ud | UVE<br>ud | M<br>mm | L<br>mm | Qtrac<br>kg | CINCADO |       |
|--------------------------|-----------|-----------|---------|---------|-------------|---------|-------|
|                          |           |           |         |         |             | REF.    | kg/ud |
| CCM BASORFIX ANCHOR 6x60 | 100       | 100       | 6       | 60      | 180         | 2/6419  | 0,03  |
| CCM BASORFIX ANCHOR 8x60 | 100       | 100       | 8       | 60      | 225         | 2/6420  | 0,04  |

Concrete load values.

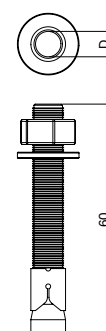


## SCM BASORFIX ANCHOR



| DESCRIPTION               | UVM<br>ud | UVE<br>ud | D<br>mm | L<br>mm | Qtrac<br>kg | CINCADO |       |
|---------------------------|-----------|-----------|---------|---------|-------------|---------|-------|
|                           |           |           |         |         |             | REF.    | kg/ud |
| SCM BASORFIX ANCHOR 10x70 | 100       | 100       | 10      | 70      | 340         | 2/4672  | 0,05  |
| SCM BASORFIX ANCHOR 12x75 | 100       | 100       | 12      | 75      | 780         | 2/6258  | 0,08  |

Concrete load values.

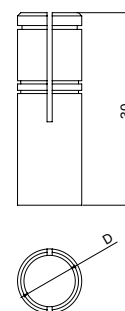


## CM BASORFIX ANCHOR



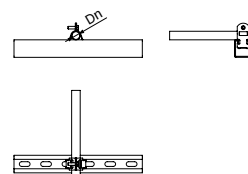
| DESCRIPTION             | UVM<br>ud | UVE<br>ud | D<br>mm | Qtrac<br>kg | CINCADO |       |
|-------------------------|-----------|-----------|---------|-------------|---------|-------|
|                         |           |           |         |             | REF.    | kg/ud |
| CM BASORFIX ANCHOR 6x30 | 100       | 100       | 6       | 280         | 2/6468  | 0,01  |
| CM BASORFIX ANCHOR 8x30 | 100       | 100       | 8       | 370         | 2/6469  | 0,01  |

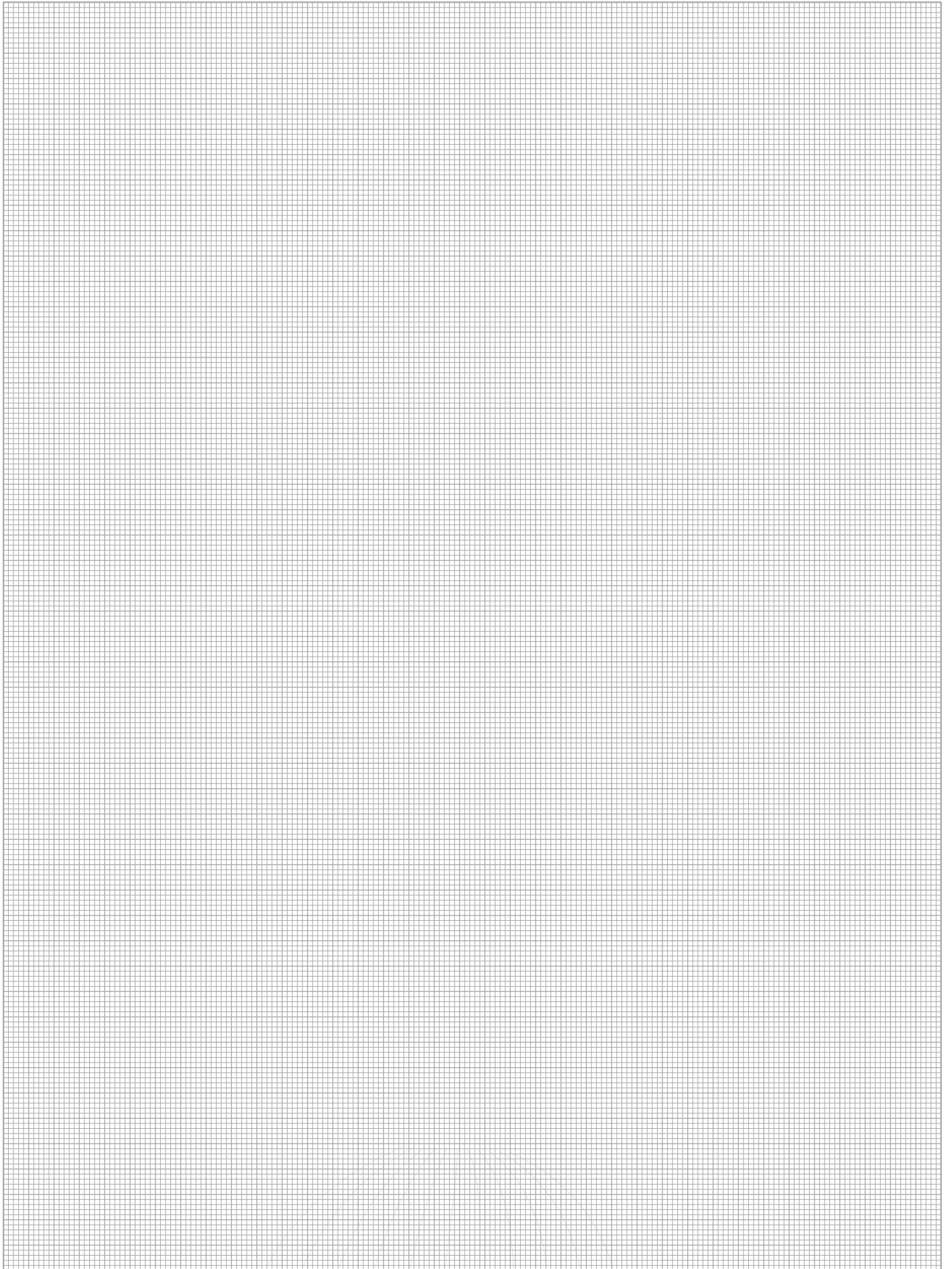
Concrete load values.

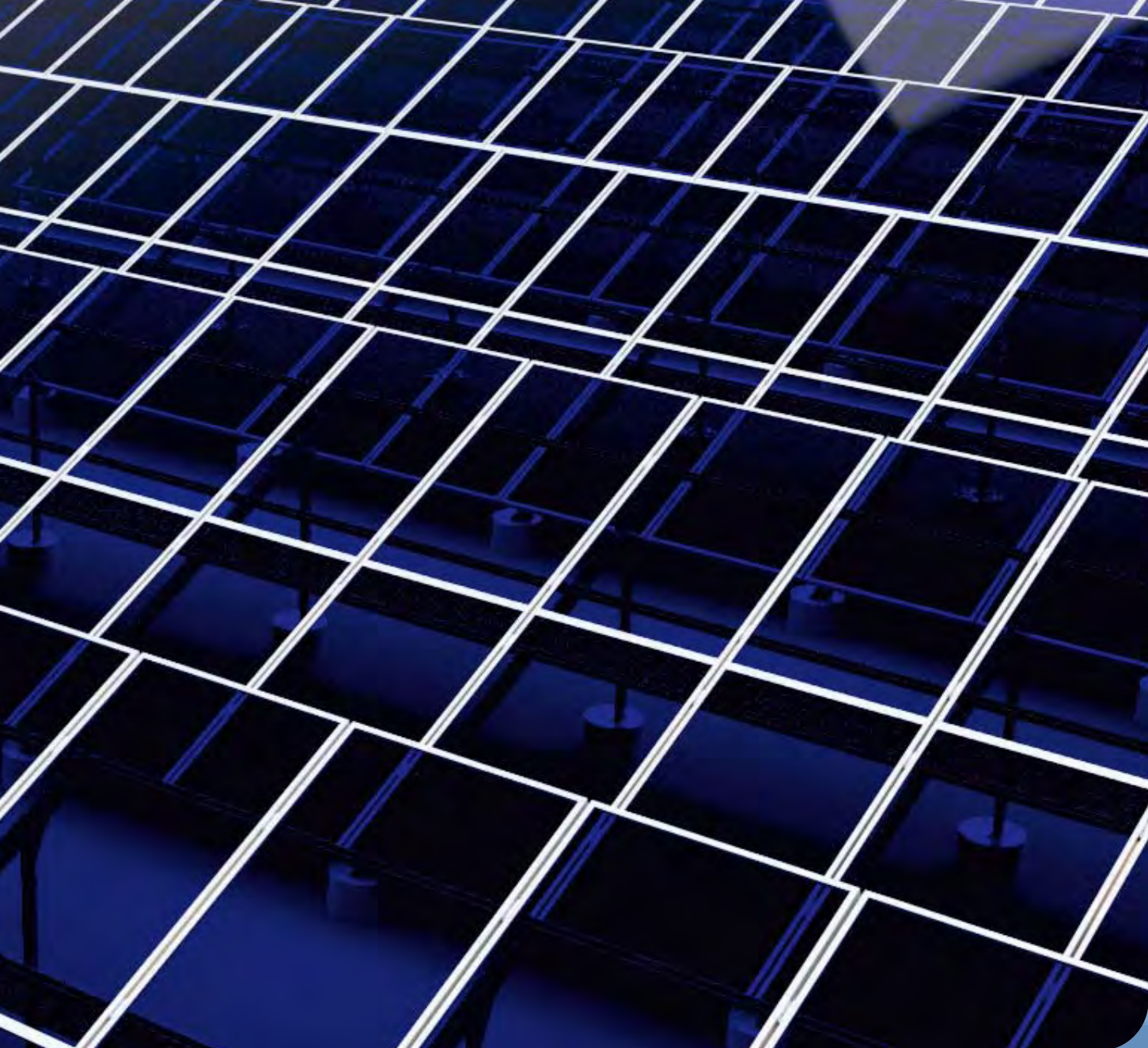


## FIXING CONDUIT CLAMP

|                                                                                   | DESCRIPTION                       | UVM<br>ud | UVE<br>ud | DN<br>mm | GC     |       |
|-----------------------------------------------------------------------------------|-----------------------------------|-----------|-----------|----------|--------|-------|
|                                                                                   |                                   |           |           |          | REF.   | kg/ud |
|  | FIXING CONDUIT CLAMP 20 FOR 41/82 | 100       | 100       | 20       | 2/6811 | 0,06  |
|                                                                                   | FIXING CONDUIT CLAMP 25 FOR 41/82 | 100       | 100       | 25       | 2/6812 | 0,07  |
|                                                                                   | FIXING CONDUIT CLAMP 32 FOR 41/82 | 100       | 100       | 32       | 2/6813 | 0,08  |
|                                                                                   | FIXING CONDUIT CLAMP 40 FOR 41/82 | 100       | 100       | 40       | 2/6814 | 0,09  |
|                                                                                   | FIXING CONDUIT CLAMP 50 FOR 41/82 | 100       | 100       | 50       | 2/6815 | 0,10  |







# SOLAR

## SOLAR ENERGY FIXED STRUCTURES

|                                |          |
|--------------------------------|----------|
| BASOR'S SOLUTION .....         | Page 172 |
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| FLOOR SYSTEMS .....            | Page 173 |
| ROOF SYSTEMS .....             | Page 175 |
| ASSEMBLY ACCESSORIES .....     | Page 176 |
| SOLAR EXCLUSIVE PRODUCTS ..... | Page 179 |



# BASOR'S SOLUTION

BASOR is a company which specialises in the manufacturing, designing and supplying of structures for electrical cable tray systems, water and air systems and photovoltaic panel systems, and which has more than 30 years of experience in the electrical sector. We have a projects department which is always ready to help you carry out your project for setting up a photovoltaic energy system.

We offer you advice for the construction and assembly of photovoltaic panel structures, calculating the necessary profiles, the distance between supports and the necessary elements for the correct set-up of the system.

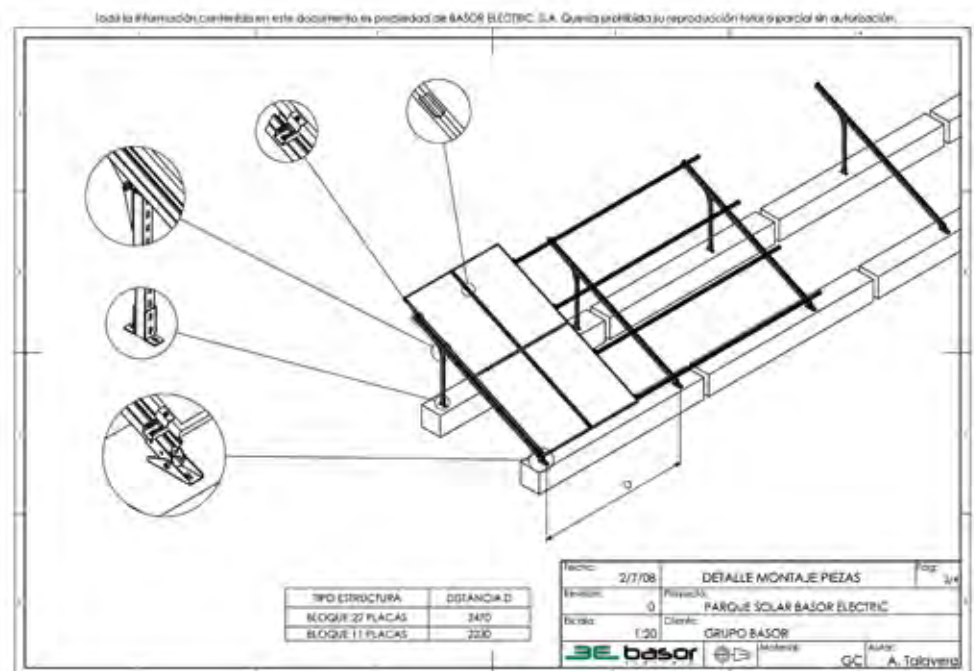


We render you the services which you might need:

- Any calculations relating to the structures, in accordance with the standard on "Basic Analysis on Structural Safety" or "Eurocode".
- Plans.
- Necessary materials.
- Cutting of profiles to minimise costs.

Moreover, for structures of more than 500 KWp, by way of our technical department, we design custom made structures, minimising the set-up costs.

BASOR recommends hot dip galvanised steel solutions<sup>1</sup>, as it's the solution which offers the best relationship between the resistance and cost of the material.



All of the materials of the structure have been designed to guarantee the functioning of the system throughout the whole of its useful life.

The materials used in the structure of photovoltaic panels are manufactured in hot dip galvanized steel, all bolts are made of A2 stainless steel and fixation elements are made of aluminium.

<sup>1</sup> For more information regarding the treatment of surfaces, please consult the Technical Appendix.



## CLASSIFICATION

BASOR has developed different systems which cover all the needs of photovoltaic parks.

Systems are divided into:

- Floor systems
- Roof systems

## FLOOR SYSTEMS

All photovoltaic assemblies depend on their surroundings, as they are capable of reducing the production capabilities of the system.

Therefore, depending on the possibility of the existence of plants and herbs, we shall classify the solutions depending on the kind of floor in which the system is going to be set up.

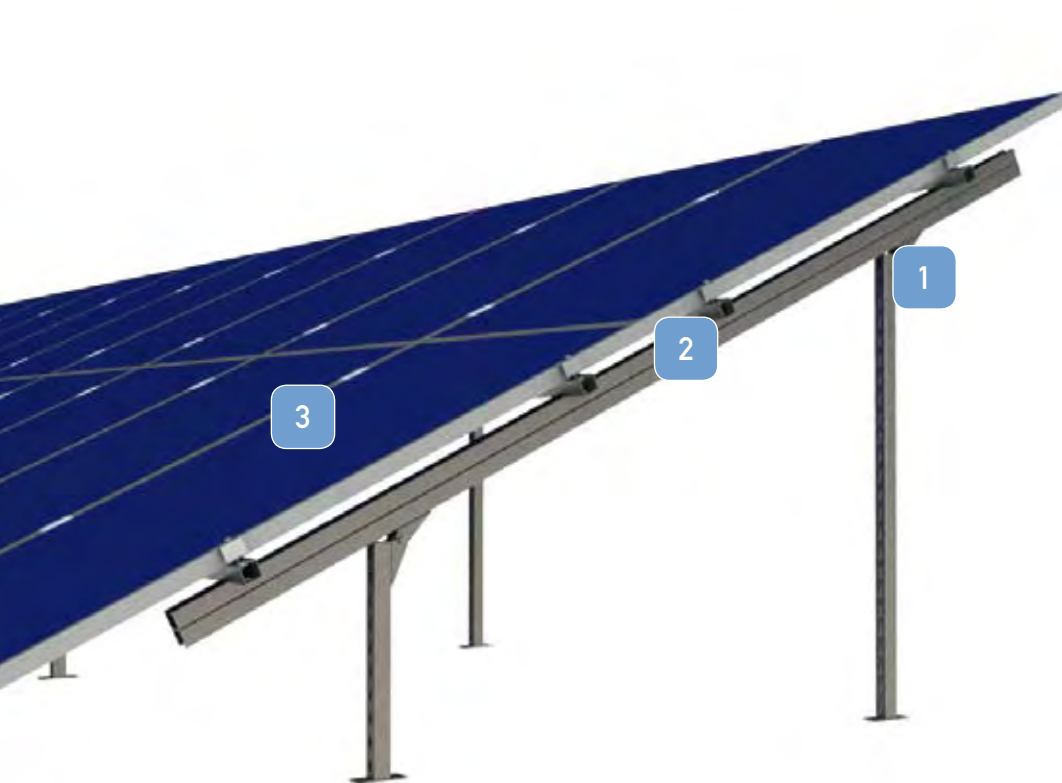
- Systems placed on land without organic matter: It's not necessary to elevate the structure, as there is no chance of plants/herbs growing and reducing the system's output.
- Systems placed on land with organic matter: The solar structure has to be elevated by placing micropiles, longitudinal or transverse bases or, simply, with the aid of the own structure. The recommended height depends on the percentage of matter contained in the ground, but the minimum recommended height is of 300 mm.



Example of a structure on land without organic matter



Example of a structure on land which has been elevated with the aid of micropiles



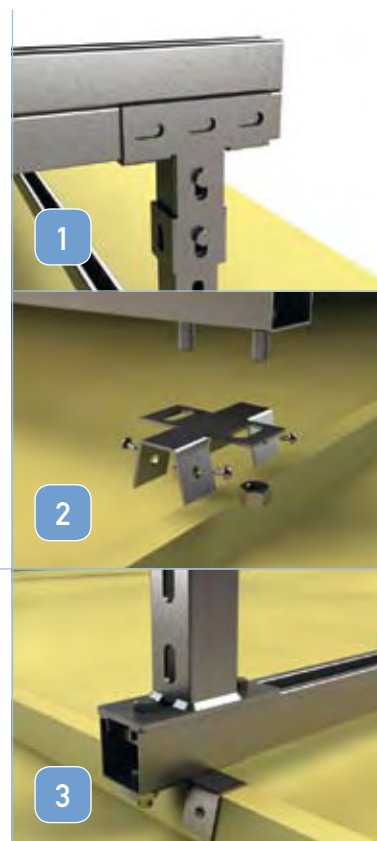
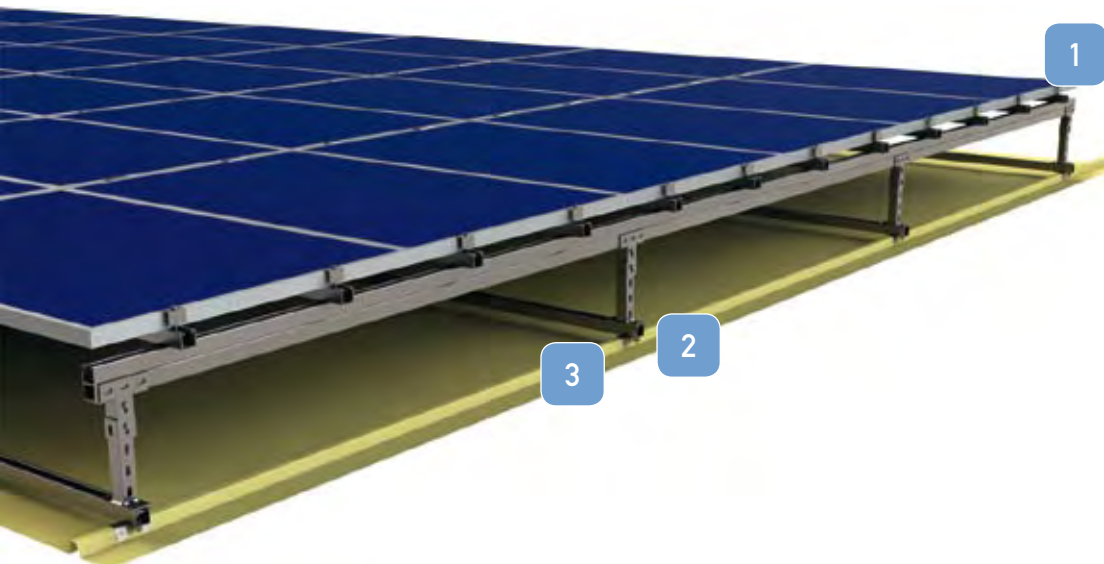
Example of a structure on land with organic matter which has been elevated by way of the main structure

## ROOF SYSTEMS

In roof systems, the first thing which has to be verified is that the roof is prepared to support the load of the structure itself and of actions such as wind, snow and earth tremor for which it has been calculated.

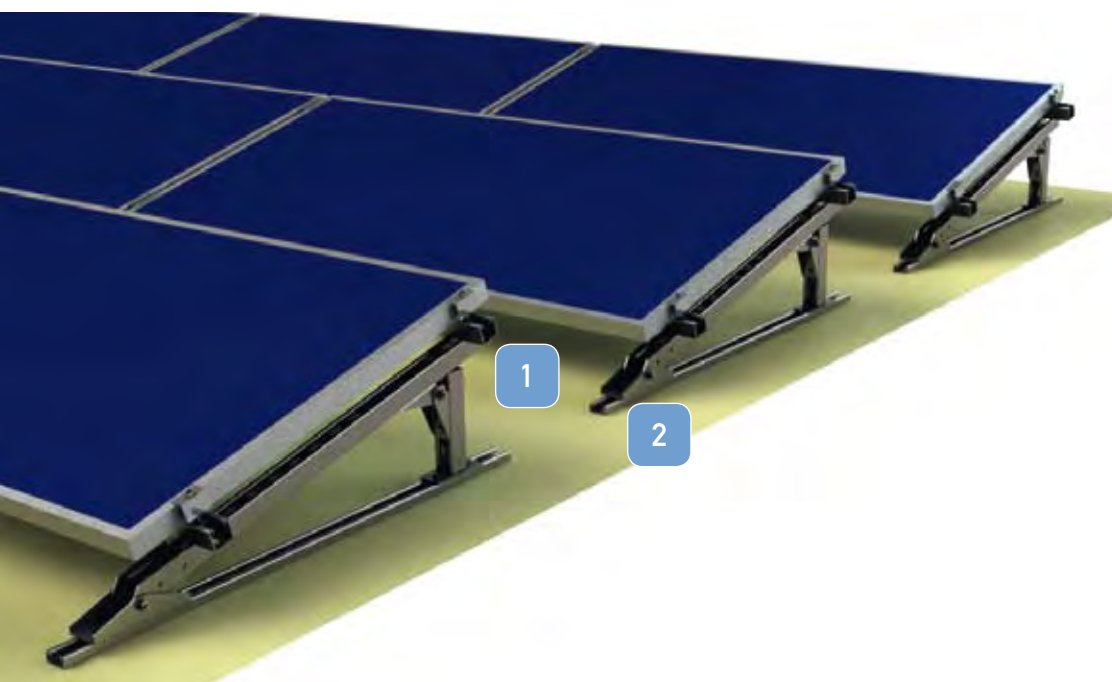
BASOR has designed two types of solutions depending on the kind of roof:

- **Sandwich roof assemblies** The structure's solution has to contemplate fixing the structure to the nerves of the sandwich panel and fixing a rail over it which acts as a base for the structure. As the structure's orientation depends on the position of the premises and on the roof's slope, there are many cases in which we must supplement the sandwich piece with an additional piece in order to obtain the desired angle.



### Example of a parallel planes structure fixed on a sandwich roof

- **Assemblies on flat roofs** The structure is very similar to the one used for floor assemblies without organic matter, but its main feature is the profile which joins both legs and which allows fixing the structure to the roof.



### Example of a structure with only one plate assembled on a flat surface

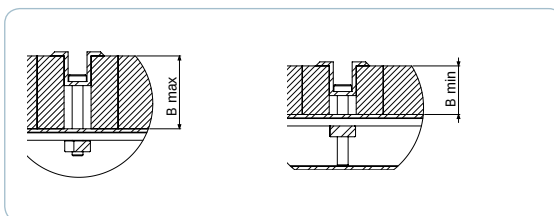


## ASSEMBLY ACCESSORIES

## PHOTOVOLTAIC MODULE'S FIXATION SYSTEM

BASOR recommends fixing the solar panels with 4 supporting points, in order to avoid movements.

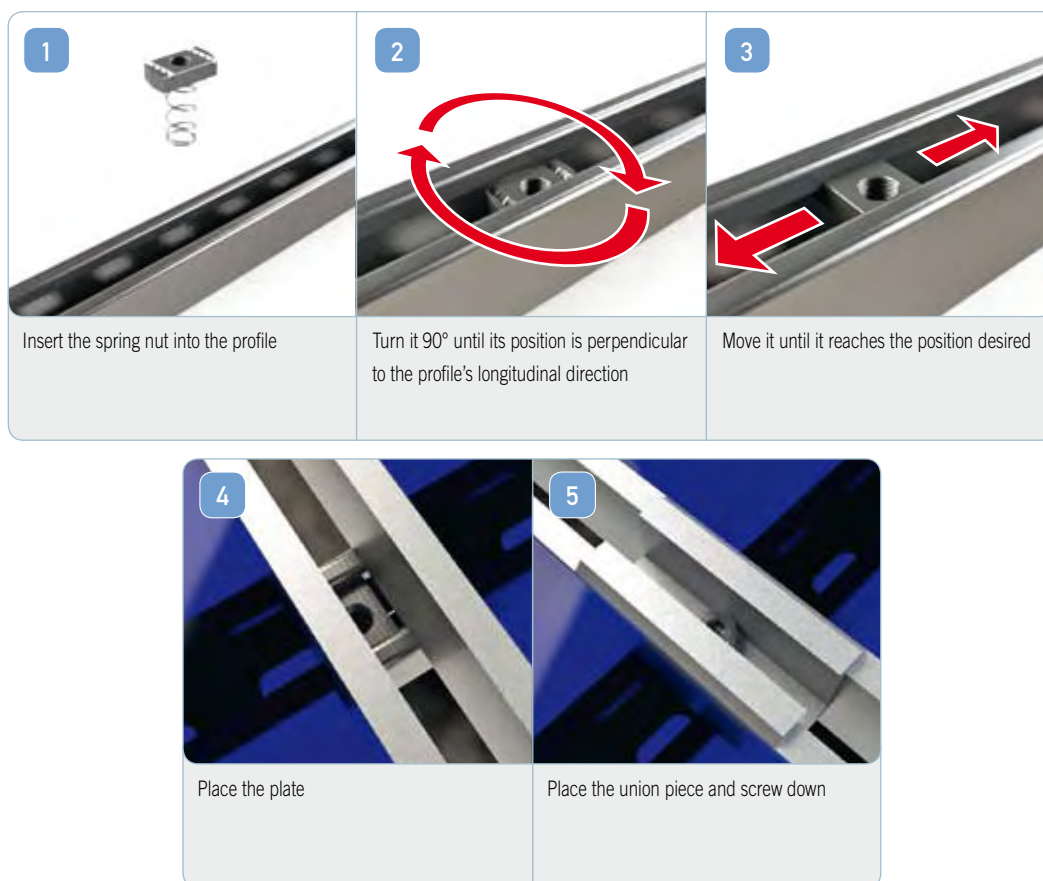
The panel's fixations are manufactured in extruded aluminium and the bolts used have an M8x55 y M8x70 DIN 912 allen head. The dimensions of the panel's edge estimated for standard bolts are of 36 mm to 49 mm.



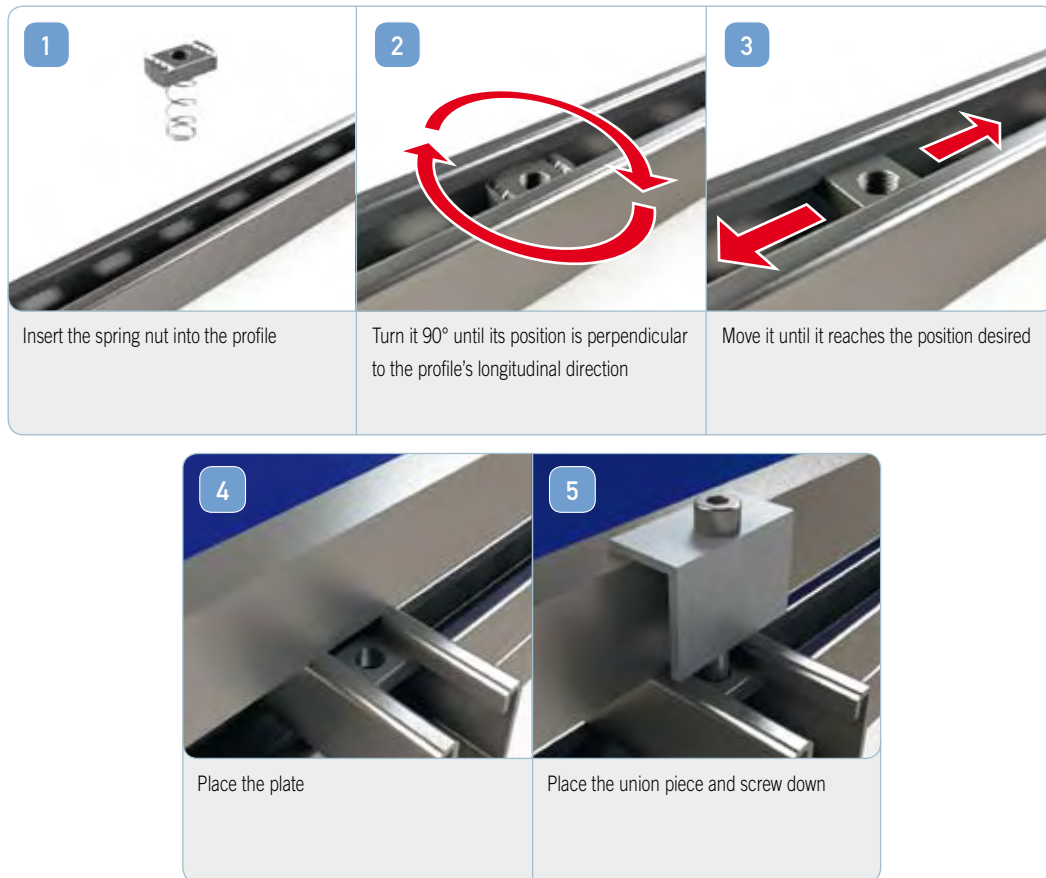
Qualities are of A2 electrogalvanised steel or stainless steel, depending on the location and on the investment's life expectancy.



## ASSEMBLY OF THE PLATE'S CENTRAL UNION JOINT



## ASSEMBLY OF THE PANEL'S LATERAL UNION JOINT



## FIXATION SYSTEM BETWEEN THE LONGITUDINAL PROFILES AND THE PORTICO

Profiles are fixed to one another by way of M8x20 or M8x25 bolts and spring nuts, as illustrated below.





## LONGITUDINAL PROFILE'S FIXATION SYSTEM

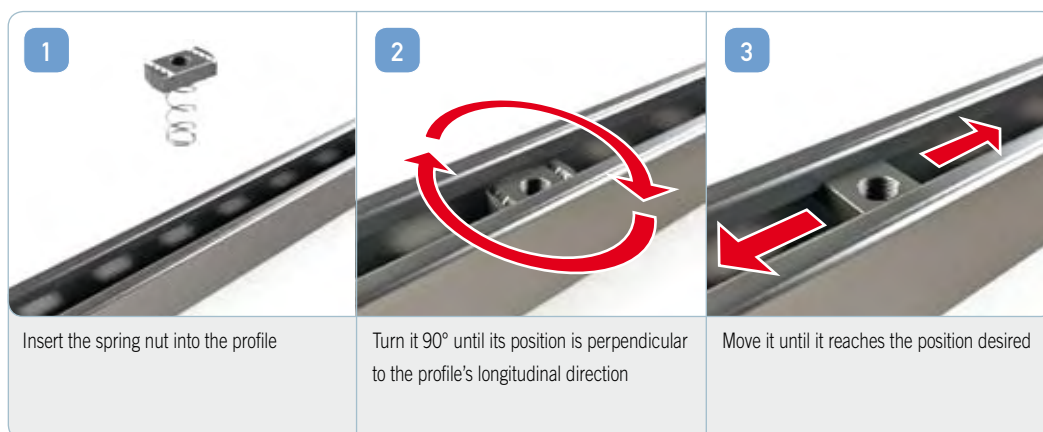
There are two ways of fixing longitudinal profiles to one another. One of the solutions is by using the corresponding union joint, and the other is the crossing profiles' system.



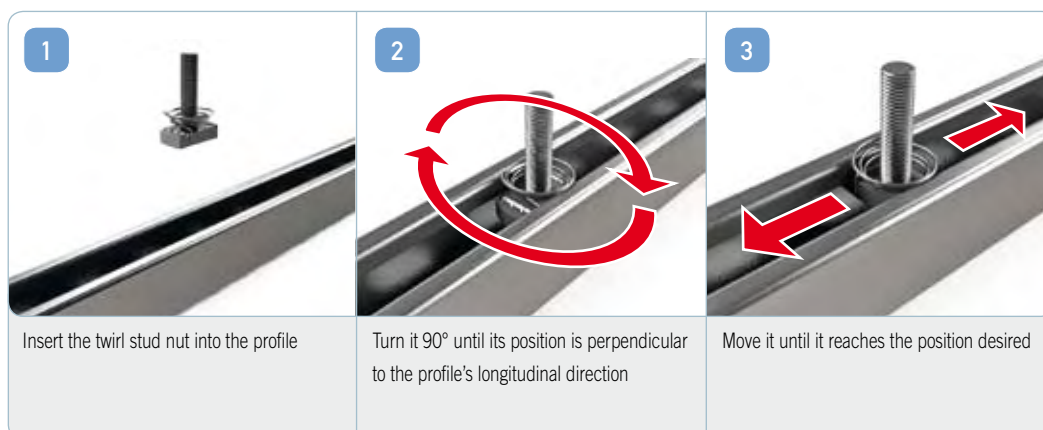
## ACCESSORIES' FIXATION SYSTEM

The two most common fixation systems are:

- **Spring nut** Offers versatility and resistance at a low price.



- **Twirl stud nut** Quick fixation system which combines nut and bolt in the same piece. In perforated profiles, it works better than the spring nut, as it avoids the spring from escaping through the perforation.

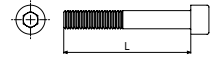


## PRODUCTOS EXCLUSIVOS DE SISTEMAS SOLARES

## DIN 912 BOLTS



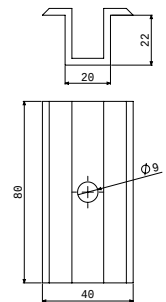
| DESCRIPTION              | UVM<br>ud | UVE<br>ud | Pap<br>Nm | L<br>mm | CINCADO |       | I304   |       |
|--------------------------|-----------|-----------|-----------|---------|---------|-------|--------|-------|
|                          |           |           |           |         | REF.    | kg/ud | REF.   | kg/ud |
| DIN 912 BOLTS M8X70 D8.8 | 100       | 100       | 25        | 70      | 0/0930  | 0,05  | 0/0939 | 0,05  |
| DIN 912 BOLTS M8X55 D8.8 | 100       | 100       | 25        | 55      | 0/0940  | 0,04  | 0/0941 | 0,04  |



## PANEL'S CENTRAL UNION JOINT



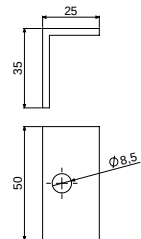
| DESCRIPTION                 | UVM<br>ud | UVE<br>ud | ALUMINIUM |       |
|-----------------------------|-----------|-----------|-----------|-------|
|                             |           |           | REF.      | kg/ud |
| PANEL'S CENTRAL UNION JOINT | 1         | 1         | 2/6794    | 0,06  |



## PANEL'S LATERAL UNION JOINT



| DESCRIPTION                 | UVM<br>ud | UVE<br>ud | ALUMINIUM |       |
|-----------------------------|-----------|-----------|-----------|-------|
|                             |           |           | REF.      | kg/ud |
| PANEL'S LATERAL UNION JOINT | 1         | 1         | 2/6795    | 0,03  |



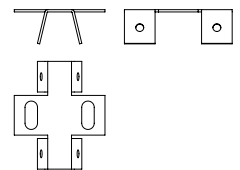
## SANDWICH PANEL FIXATION

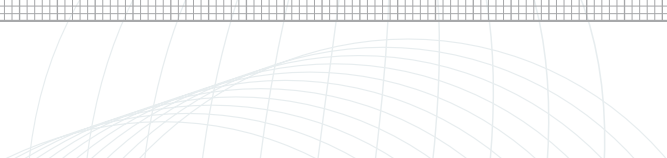
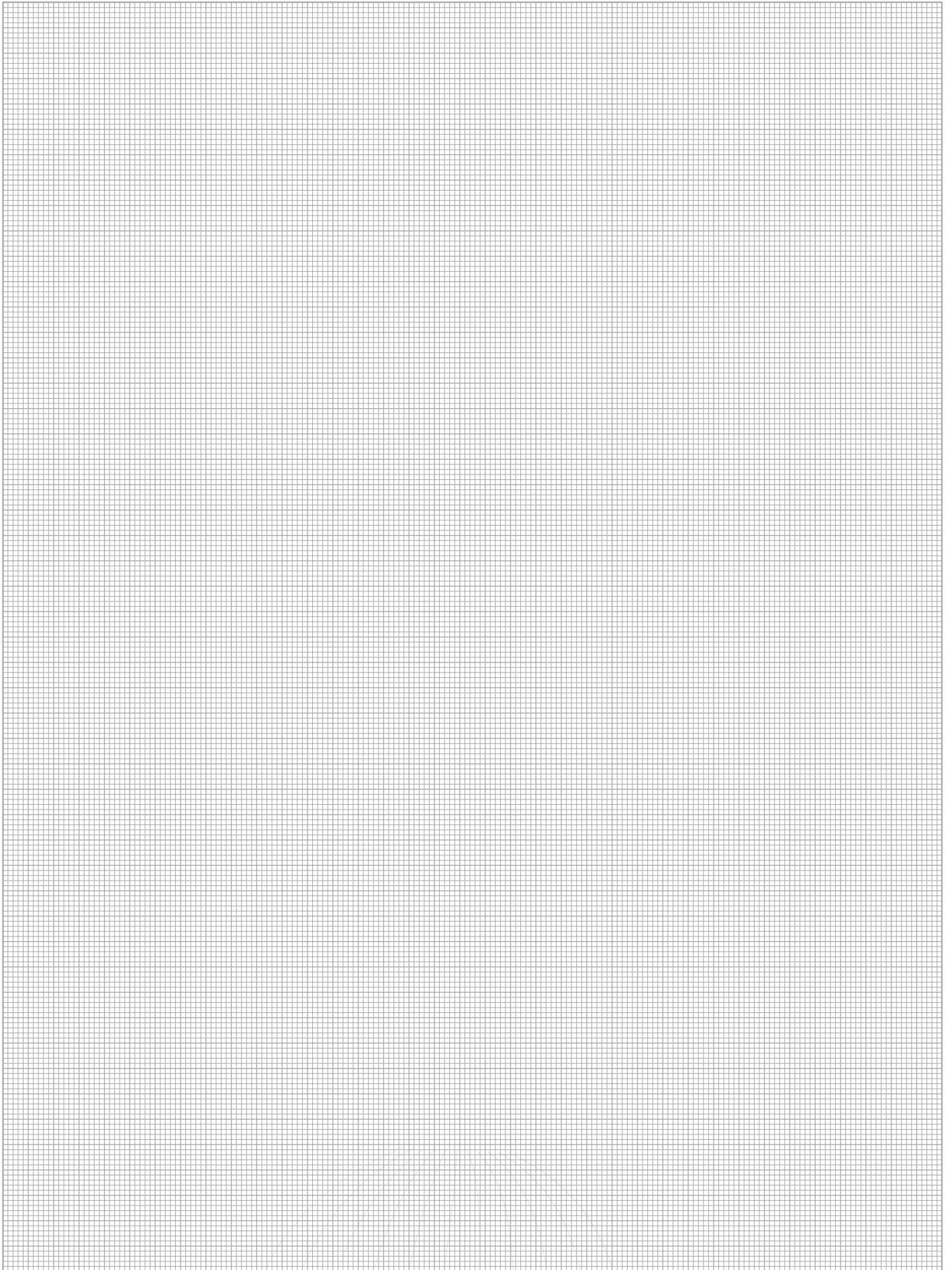


| DESCRIPTION             | UVM<br>ud | UVE<br>ud | GS   |       | GC   |       |
|-------------------------|-----------|-----------|------|-------|------|-------|
|                         |           |           | REF. | kg/ud | REF. | kg/ud |
| SANDWICH PANEL FIXATION | 1         | 1         | -    | 0,15  | -    | 0,17  |

Manufactured under order.

The dimensions vary depending on the system.







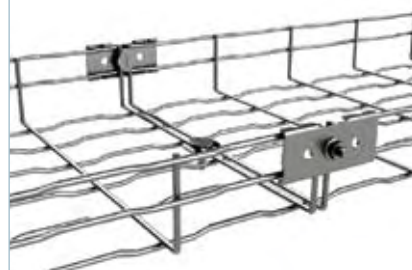
# FIRE RESISTANT

## FIRE RESISTANT ASSEMBLIES

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CEILING SYSTEMS ..... Page 183





**BASOR ELECTRIC** certifies that the BASORFIL cable tray installed with the below mentioned characteristics complies with Class E90 of function maintenances, in accordance with Standard DIN 4102, Section 12.

This system incorporates BASORFIL BFR with a height of 65, SHO supports are fixed to the wall and reinforced on the ceiling with threaded rods on one side.

The distance between supports is of 1.2 m and the maximum load is of 10 kg/m.

The system may have one or two levels.

## MATERIALS LISTING PER FIXATION POINT

| REF.   | Description                 | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-----------------------------|---------------------|----------------------|
| 2/3622 | BASORFIL BFR 100x65 CINCADO | 1,2 m               | 2,4 m                |
| 2/0965 | SHO 100 GS Support          | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod     | 0,25 m              | 0,5 m                |
| 2/6477 | VR GC Variable set          | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut      | 4 units             | 6 units              |
| 2/4919 | ULA 65 CINCADO Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4364 | BF CINCADO Bolt-staple set  | 2,4/100 units       | 4,8/100 units        |
|        | RF M8 CINCADO Anchor        | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor       | 1 unit              | 1 unit               |
| 2/6240 | SHO GS Support piece        | 1 unit              | 2 units              |

| REF.   | Description                 | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-----------------------------|---------------------|----------------------|
| 2/3623 | BASORFIL BFR 150x65 CINCADO | 1,2 m               | 2,4 m                |
| 2/0966 | SHO 150 GS Support          | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod     | 0,25 m              | 0,5 m                |
| 2/6477 | VR GC Variable set          | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut      | 4 units             | 6 units              |
| 2/4919 | ULA 65 CINCADO Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4364 | BF CINCADO Bolt-staple set  | 2,4/100 units       | 4,8/100 units        |
|        | RF M8 CINCADO Anchor        | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor       | 1 unit              | 1 unit               |
| 2/6240 | SHO GS Support piece        | 1 unit              | 2 units              |

| REF.   | Description                 | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-----------------------------|---------------------|----------------------|
| 2/3624 | BASORFIL BFR 200x65 CINCADO | 1,2 m               | 2,4 m                |
| 2/0967 | SHO 200 GS Support          | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod     | 0,25 m              | 0,5 m                |
| 2/6477 | VR GC Variable set          | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut      | 4 units             | 6 units              |
| 2/4919 | ULA 65 CINCADO Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4364 | BF CINCADO Bolt-staple set  | 2,4/100 units       | 4,8/100 units        |
|        | RF M8 CINCADO Anchor        | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor       | 1 unit              | 1 unit               |
| 2/6240 | SHO GS Support piece        | 1 unit              | 2 units              |

| REF.   | Description                 | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-----------------------------|---------------------|----------------------|
| 2/3625 | BASORFIL BFR 300x65 CINCADO | 1,2 m               | 2,4 m                |
| 2/0968 | SHO 300 GS Support          | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod     | 0,25 m              | 0,5 m                |
| 2/6477 | VR GC Variable set          | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut      | 4 units             | 6 units              |
| 2/4919 | ULA 65 CINCADO Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4364 | BF CINCADO Bolt-staple set  | 2,4/100 units       | 4,8/100 units        |
|        | RF M8 CINCADO Anchor        | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor       | 1 unit              | 1 unit               |
| 2/6240 | SHO GS Support piece        | 1 unit              | 2 units              |



| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0291 | BASORFIL BFR 100x65 GC  | 1.2 m               | 2.4 m                |
| 2/0970 | SHO 100 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units             | 6 units              |
| 2/4363 | ULA 65 GC Set           | 0.8/100 units       | 1.6/100 units        |
| 2/4360 | BF GC Bolt-staple set   | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor    | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor   | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece | 1 unit              | 2 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0292 | BASORFIL BFR 150x65 GC  | 1.2 m               | 2.4 m                |
| 2/0971 | SHO 150 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units             | 6 units              |
| 2/4363 | ULA 65 GC Set           | 0.8/100 units       | 1.6/100 units        |
| 2/4360 | BF GC Bolt-staple set   | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor    | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor   | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece | 1 unit              | 2 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0293 | BASORFIL BFR 200x65 GC  | 1.2 m               | 2.4 m                |
| 2/0972 | SHO 200 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units             | 6 units              |
| 2/4363 | ULA 65 GC Set           | 0.8/100 units       | 1.6/100 units        |
| 2/4360 | BF GC Bolt-staple set   | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor    | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor   | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece | 1 unit              | 2 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0294 | BASORFIL BFR 300x65 GC  | 1.2 m               | 2.4 m                |
| 2/0973 | SHO 300 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units             | 6 units              |
| 2/4363 | ULA 65 GC Set           | 0.8/100 units       | 1.6/100 units        |
| 2/4360 | BF GC Bolt-staple set   | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor    | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor   | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece | 1 unit              | 2 units              |

| REF.   | Description              | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|--------------------------|---------------------|----------------------|
| 2/0308 | BASORFIL BFR 100x65 I304 | 1.2 m               | 2.4 m                |
| 2/0970 | SHO 100 GC Support       | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod  | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set       | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut   | 4 units             | 6 units              |
| 2/4921 | ULA 65 I304 Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4915 | BF I304 Bolt-staple set  | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor     | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor    | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece  | 1 unit              | 2 units              |

| REF.   | Description              | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|--------------------------|---------------------|----------------------|
| 2/0309 | BASORFIL BFR 150x65 I304 | 1.2 m               | 2.4 m                |
| 2/0971 | SHO 150 GC Support       | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod  | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set       | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut   | 4 units             | 6 units              |
| 2/4921 | ULA 65 I304 Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4915 | BF I304 Bolt-staple set  | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor     | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor    | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece  | 1 unit              | 2 units              |

| REF.   | Description              | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|--------------------------|---------------------|----------------------|
| 2/0310 | BASORFIL BFR 200x65 I304 | 1.2 m               | 2.4 m                |
| 2/0970 | SHO 200 GC Support       | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod  | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set       | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut   | 4 units             | 6 units              |
| 2/4921 | ULA 65 I304 Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4915 | BF I304 Bolt-staple set  | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor     | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor    | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece  | 1 unit              | 2 units              |

| REF.   | Description              | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|--------------------------|---------------------|----------------------|
| 2/0310 | BASORFIL BFR 300x65 I304 | 1.2 m               | 2.4 m                |
| 2/0971 | SHO 300 GC Support       | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod  | 0.25 m              | 0.5 m                |
| 2/6477 | VR GC Variable set       | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut   | 4 units             | 6 units              |
| 2/4921 | ULA 65 I304 Set          | 0.8/100 units       | 1.6/100 units        |
| 2/4915 | BF I304 Bolt-staple set  | 2.4/100 units       | 4.8/100 units        |
|        | RF M8 CINCADO Anchor     | 2 units             | 4 units              |
|        | RF M10 CINCADO Anchor    | 1 unit              | 1 unit               |
| 2/6318 | SHO GC Supporting piece  | 1 unit              | 2 units              |



**BASOR ELECTRIC** certifies that the BASORTRAY ERE installed with the below mentioned characteristics complies with Class E90 of function maintenances, in accordance with Standard DIN 4102, Section 12.

This system incorporates BASORTRAY ERE H60, SHOT supports are fixed to the ceiling and reinforced on the ceiling with threaded rods on one side.

The distance between supports is of 1.2 m and the maximum load is of 10 kg/m.

## MATERIALS LISTING PER FIXATION POINT

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1197 | B/P ERE 100X60 GS       | 1.2 m         |
| 2/1091 | SHOT 100 GS Support     | 1 unit        |
| 2/6240 | SHO GS Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1198 | B/P ERE 150X60 GS       | 1.2 m         |
| 2/1092 | SHOT 150 GS Support     | 1 unit        |
| 2/6240 | SHO GS Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1199 | B/P ERE 200X60 GS       | 1.2 m         |
| 2/1093 | SHOT 200 GS Support     | 1 unit        |
| 2/6240 | SHO GS Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1201 | B/P ERE 300X60 GS       | 1.2 m         |
| 2/1094 | SHOT 300 GS Support     | 1 unit        |
| 2/6240 | SHO GS Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1227 | B/P ERE 100X60 GC       | 1.2 m         |
| 2/1095 | SHOT 100 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1228 | B/P ERE 150X60 GC       | 1.2 m         |
| 2/1096 | SHOT 150 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1229 | B/P ERE 200X60 GC       | 1.2 m         |
| 2/1097 | SHOT 200 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/1231 | B/P ERE 300X60 GC       | 1.2 m         |
| 2/1098 | SHOT 300 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/4795 | B/P ERE 100X60 I304     | 1.2 m         |
| 2/1095 | SHOT 100 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4925 | B1 I304 Bolt set        | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/4319 | B/P ERE 150X60 I304     | 1.2 m         |
| 2/1096 | SHOT 150 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4925 | B1 I304 Bolt set        | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/4688 | B/P ERE 200X60 I304     | 1.2 m         |
| 2/1097 | SHOT 200 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4925 | B1 I304 Bolt set        | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |

| REF.   | Description             | Quantity      |
|--------|-------------------------|---------------|
| 2/4317 | B/P ERE 300X60 I304     | 1.2 m         |
| 2/1098 | SHOT 300 GC Support     | 1 unit        |
| 2/6318 | SHO GC Supporting piece | 1 unit        |
| 2/3397 | M8 CINCADO Threaded rod | 0.25 m        |
| 2/6477 | VR GC Variable set      | 1 unit        |
| 2/4925 | B1 I304 Bolt set        | 3.6/100 units |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4 units       |
|        | RF M10 CINCADO Anchor   | 1 unit        |
|        | RF M8 CINCADO Anchor    | 2 units       |



**BASOR ELECTRIC** certifies that the BASORTRAY FRE installed with the below mentioned characteristics complies with Class E90 of function maintenances, in accordance with Standard DIN 4102, Section 12.

This system incorporates BASORTRAY FRE H60, SPL supports are fixed to the ceiling with SHL horizontal support with reinforced on the ceiling with threaded rods on one side.

The distance between supports is of 1.2 m and the maximum load is of 10 kg/m.

The system may have one or two levels.



## MATERIALS LISTING PER FIXATION POINT

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0006 | B/P FRE 100x65 GS       | 1.2 m               | 2.4 m                |
| 2/6849 | SPL 600 CINCADO Support | 1 unit              | 1 unit               |
| 2/6873 | SHL 100 CINCADO Support | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0007 | B/P FRE 150x65 GS       | 1.2 m               | 2.4 m                |
| 2/6849 | SPL 600 CINCADO Support | 1 unit              | 1 unit               |
| 2/6874 | SHL 150 CINCADO Support | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0008 | B/P FRE 200x65 GS       | 1.2 m               | 2.4 m                |
| 2/6849 | SPL 600 CINCADO Support | 1 unit              | 1 unit               |
| 2/6875 | SHL 200 CINCADO Support | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0009 | B/P FRE 300x65 GS       | 1.2 m               | 2.4 m                |
| 2/6849 | SPL 600 CINCADO Support | 1 unit              | 1 unit               |
| 2/6876 | SHL 300 CINCADO Support | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/4356 | B1 CINCADO Bolt set     | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |



| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0056 | B/P FRE 100x65 GC       | 1.2 m               | 2.4 m                |
| 2/6841 | SPL 600 GC Support      | 1 unit              | 1 unit               |
| 2/6866 | SHL 100 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0057 | B/P FRE 150x65 GC       | 1.2 m               | 2.4 m                |
| 2/6841 | SPL 600 GC Support      | 1 unit              | 1 unit               |
| 2/6867 | SHL 150 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0058 | B/P FRE 200x65 GC       | 1.2 m               | 2.4 m                |
| 2/6841 | SPL 600 GC Support      | 1 unit              | 1 unit               |
| 2/6868 | SHL 200 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |

| REF.   | Description             | 1 level<br>Quantity | 2 levels<br>Quantity |
|--------|-------------------------|---------------------|----------------------|
| 2/0059 | B/P FRE 300x65 GC       | 1.2 m               | 2.4 m                |
| 2/6841 | SPL 600 GC Support      | 1 unit              | 1 unit               |
| 2/6869 | SHL 300 GC Support      | 1 unit              | 2 units              |
| 2/3397 | M8 CINCADO Threaded rod | 0.3 m               | 0.6 m                |
| 2/6477 | VR GC Variable set      | 1 unit              | 1 unit               |
| 0/0338 | M8 DIN6923 CINCADO nut  | 4/100 units         | 6/100 units          |
| 2/6826 | B1 GC Bolt set          | 3.6/100 units       | 7.2/100 units        |
| 2/6321 | M10X30 CINCADO Bolt set | 2/100 units         | 4/100 units          |
|        | RF M10 CINCADO Anchor   | 3 units             | 3 units              |







# TECHNICAL APPENDIX

When designing an electrical installation, with all its electrical connections and cable conduction system, different aspects such as corrosion, the mechanical resistance of the set or its price must be considered.

In some cases, the lack of information, the number of alternatives or the ignorance on the subject make the engineering task more difficult and slow down the design process.

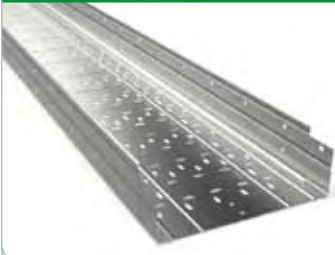
BASOR ELECTRIC has created this technical appendix with the aim of making the process of selection and design easier and of being able to offer its clients the maximum information regarding all of these aspects whilst maintaining the work line which has turned BASOR into a leading company within its sector.

**The Technical Department.**

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**When carrying out a study of any electrical system, one must bare in mind a series of determining factors which shall help chose and condition the system, all of which shall be further explained.**

In the first place, it's necessary to select the conduction system. One of the following existing solutions such as cable trays, trunkings or conduits shall be chosen.

| CABLE TRAYS                                                                       | TRUNKINGS                                                                                                  | CONDUITS                                                                                                   |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|  |                           |                          |
| Cable conduction without any kind of protection                                   | Cable conduction with mechanical protection (IK rating) and protection against external agents (IP rating) | Cable conduction with mechanical protection (IK rating) and protection against external agents (IP rating) |

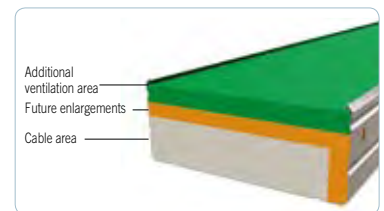
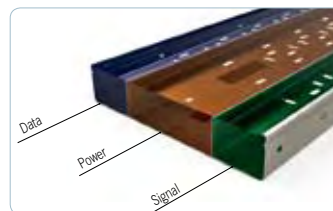
These three devices may all be present in the same system, depending on the area which the line has to cross.

In the second place, the material and the finish shall be chosen depending on the environmental conditions, which may be:



Once both these aspects have been defined, it is necessary to measure the different conduction systems. In order to do so, the following aspects must be taken into consideration:

- Weight and dimensions of the cables which shall run through the cable tray
- Geometrical restrictions of the system
- Nature of the currents which shall run through the cables (power, signal or data). One same canalisation may contain cables of these 3 types but, in such case, their electromagnetic compatibility shall have to be ensured by way of using separating longitudinal sections.
- Space reserved for future enlargements



Corrosion is defined as the deterioration of any material due to an electrochemical attack caused by its environment. The speed at which it happens shall depend on the temperature, the salinity of the fluid which is in contact with the metal and the properties of the metals present. Other non-metallic elements also suffer corrosion caused by other mechanisms.

#### Atmospheric corrosion:

Atmospheric corrosion happens when metal is exposed to liquids, solids or gases transported in the atmosphere. Humidity, salt, corrosive gases and dirt are its main factors. This type of corrosion takes place in open air conditions, places with poor ventilation and marine environments.

Some classifications study saline corrosion independently, because saline corrosion happens when a metallic surface is exposed to different saline concentrations forming a galvanic pile at times where the surface exposed to the lowest degree of saline concentration behaves like an anode.



#### Chemical corrosion:

Chemical corrosion happens when a metal is directly exposed to chemical solutions. Depending on the solution's level of concentration, contact time, cleaning frequency and service temperature, the level of corrosion will be higher or lower.



#### Galvanic corrosion:

|       |                |
|-------|----------------|
| Anode | Zinc           |
|       | Aluminium      |
|       | Steel          |
|       | I316           |
|       | I304           |
|       | Copper         |
|       | Nickel         |
|       | Passivate I316 |
|       | Passivate I304 |
|       | Cathode        |

It's the most common type, and happens when two different metals are in contact with one another. When two different metals come into contact one with the other, a small galvanic pair is created, as one metal acts as an anode and the other as a cathode. The one with the most negative reduction potential shall oxidise whilst the one with the most positive reduction potential shall be reduced.



#### Storage corrosion:

In some cases (steel with a zinc covering), when materials are stored in poor ventilated or humid places, white stains may appear on the surface. Generally speaking, these white stains are superficial and don't affect the covering's properties, even though wiping them off is strongly advised in order to allow the protective layer to form itself correctly.

The material has to be stored in a dry and ventilated place, avoiding storing it outside, even in conditions of low humidity.



The UNE-EN IEC 61537 Standard classifies the degree of resistance against corrosion in “classes” depending on the materials and coverings which are most used.

Using these standards, the minimum class necessary for each type of system may be defined.

<sup>a</sup> For those materials which do not count with a declared classification or resistance against corrosion.

<sup>b</sup> During the later process of treatment, the protection against corrosion in cracks and the degree of pollution produced by other agents have to be improved.

| Class | Reference-Material and Finish                                                                                                                  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 0     | None                                                                                                                                           |
| 1     | Electroplated to a minimum thickness of 5 µm                                                                                                   |
| 2     | Electroplated to a minimum thickness of 12 µm                                                                                                  |
| 3     | Pre-galvanised to grade 275 to EN 10327 and EN 10326                                                                                           |
| 4     | Pre-galvanised to grade 350 to EN 10327 and EN 10326                                                                                           |
| 5     | Post galvanised to a zinc mean coating thickness (minimum) of 45 µm according to ISO 1461 only for zinc thickness                              |
| 6     | Post galvanised to a zinc mean coating thickness (minimum) of 55 µm according to ISO 1461 only for zinc thickness                              |
| 7     | Post galvanised to a zinc mean coating thickness (minimum) of 70 µm according to ISO 1461 only for zinc thickness                              |
| 8     | Post galvanised to a zinc mean coating thickness (minimum) of 85 µm according to ISO 1461 only for zinc thickness (Usually high silicon steel) |
| 9A    | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30403 or EN 10088 grade 1-4301 without a post treatment                  |
| 9B    | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 without a post treatment                  |
| 9C    | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30403 or EN 10088 grade 1-4301 with a post treatment                     |
| 9D    | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 with a post treatment                     |

| Class<br>(as shown on Table 1) | Duration<br>(hours) |
|--------------------------------|---------------------|
| 0                              | -                   |
| 1                              | 24                  |
| 2                              | 96                  |
| 3                              | 155                 |
| 4                              | 195                 |
| 5                              | 450                 |
| 6                              | 550                 |
| 7                              | 700                 |
| 8                              | 850                 |

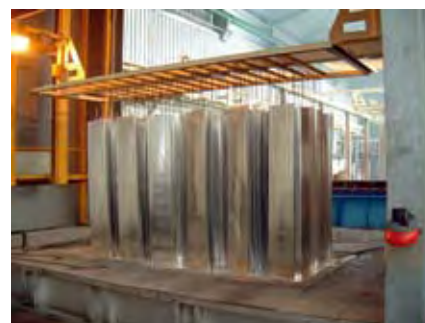
Moreover, the UNE-EN IEC 61537 Standard allows us to draw up a conversion table which compares the resistance to corrosion with the duration of the Neutral Salt Spray (NSS) test according to Standard ISO 9227, allowing manufacturers and engineers to create new finishes and materials.

| Environment                                                                                       | Corrosion Speed<br>(mean loss of zinc thickness) <sup>a</sup><br>µm per year |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Interior: dry                                                                                     | < 0.1                                                                        |
| Interior: occasional condensation<br>Exterior: rural                                              | 0.1 - 0.7                                                                    |
| Interior: high level of humidity, slightly polluted air<br>Exterior: urban inland or mild coastal | 0.7 - 2                                                                      |
| Interior: swimming pools, chemical plants<br>Exterior: industrial inland or mild urban            | 2 - 4                                                                        |
| Exterior: very humid industrial or high salinity coastal                                          | 4 - 8                                                                        |

In the case of zinc coverings, the UNE-EN IEC 61537 Standard defines the speed of corrosion depending on the mean loss of the covering with regards to the location of the installation with respects to the sea (inland or coastal area) and also depending on whether such installation is being subject to the weather's inclemencies (inside/covered or outside/exposed to elements).

This table can be applied to other types of products made of steel with a zinc covering, such as system profiles and accessories. All data has been extracted from the UNE-EN ISO 14713:2000 Standard, entitled “Protection against corrosion of iron and steel in structures. Zinc and aluminium coatings”.

In order to estimate the life of any steel with a zinc coating, it is necessary to be aware of the coating's mean thickness and of the system's location. Its life is equivalent to the quotient between such thickness and the location's speed of corrosion and, therefore, is not an absolute value, because it depends on the environmental fluctuations of the surroundings, as shown in the table above.



Different materials together with a finish which is adequate for the environmental conditions in which the electrical system is placed have to be used depending on the mechanical, electrical or resistance against corrosion properties.

| Materials                           | Properties                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Steel</b>                        | <ul style="list-style-type: none"> <li>- Electrical continuity</li> <li>- Ideal for areas with strong temperature changes, operating both at high and low temperatures.</li> <li>- Resistance to corrosion varies depending on the selected finish.</li> <li>- Good response to flexure.</li> <li>- Good response to fire (M0). Non-flammable material. No gas emissions.</li> <li>- 100 % recyclable material</li> </ul> |
| <b>Stainless Steel<br/>AISI 304</b> | <ul style="list-style-type: none"> <li>- Electrical continuity</li> <li>- High resistance to corrosion</li> <li>- Ideal for areas with strong temperature changes, operating both at high and low temperatures.</li> <li>- Good response to flexure.</li> <li>- Good response to fire (M0). Non-flammable material. No gas emissions.</li> <li>- 100% recyclable material</li> </ul>                                      |
| <b>Thermoplastic</b>                | <ul style="list-style-type: none"> <li>- Insulating and light material</li> <li>- Easy handling and installation</li> <li>- Good resistance to corrosion</li> <li>- Flame retardant material</li> <li>- Low fire resistance. Depends on the raw material.</li> <li>- Limited service temperature range</li> <li>- Gas emission depending on the raw material.</li> <li>- 100% recyclable material</li> </ul>              |

#### The available standard finishes are:

**Pre-galvanised (GS)** Laminated continuously galvanised through immersion in molten zinc steel, manufactured according to the UNE-EN 10327 Standard. The steel's protection shall depend on the covering's mass. Galvanised sendzimir steel is used for cold-forming, and the protection against corrosion of the mechanised areas (perforations, edges, etc.) is due to the galvanic protection, a kind of protection conferred to steel by way of being in contact with a zinc anode. The zinc anode chemically reacts with the environment, creating a protective film and preventing the reaction between the environment and the piece from happening. The galvanised sendzimir steel used by BASOR ELECTRIC as standard is of type Z275 (19 microns of mean thickness) and is classified by UNE-EN IEC 61537 Standard as Class 3. Galvanised sendzimir steel is used in dry environments free of pollutants.

**Hot Dip Galvanised Steel (HDG)** Laminated or rust removed galvanised after forming steel according to UNE-EN ISO 1461 Standard. The steel's protection is conferred by a zinc coating which varies depending on the steel's thickness, offering a uniform covering. The zinc coating's thickness depends on the thickness of the base material and ranges between the values shown in the table.

The UNE-EN IEC 61537 Standard classifies the resistance against corrosion of these galvanised steels as Class 5 for the covering of 45µm, Class 6 for 55µm, Class 7 for 70µm and Class 8 for 85µm. Hot dip galvanised steel is used in humid environments, granting a high protection during adverse atmospheric situations, light chemical situations, light marine situations and urban situations.

| Thickness of the piece      | Local thickness of the covering<br>(minimum value) <sup>a</sup><br>μm | Mean thickness of the covering<br>(minimum value) <sup>b</sup><br>μm |
|-----------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------|
| Steel ≥ 6 mm                | 70                                                                    | 85                                                                   |
| Steel ≥ 3 mm up to < 6 mm   | 55                                                                    | 70                                                                   |
| Steel ≥ 1.5 mm up to < 3 mm | 45                                                                    | 55                                                                   |
| Steel < 1.5 mm              | 35                                                                    | 45                                                                   |
| Molded pieces of ≥ 6 mm     | 70                                                                    | 80                                                                   |
| Molded pieces of < 6 mm     | 60                                                                    | 70                                                                   |

**Electrogalvanised (CINCADO)** A steel base coated with a zinc layer by electrolysis, by means of submerging the pieces in a bath composed by zinc solutions, in accordance with UNE-EN 12329 Standard (ISO 2081). Depending on the type of zinc layer, it shall have a different degree of protection on the steel, avoiding corrosion and enhancing the visual appearance of the piece. This treatment is carried out once the piece has been formed.

The UNE-EN IEC 61537 Standard classifies the degree of resistance to corrosion of the system's components depending on the steel's electrolytic covering, belonging to Class 1 those with a minimum thickness of 5μm and to Class 2 those of 12μm. BASOR ELECTRIC uses Class 2 as its standard material in order to guarantee the quality of its products against corrosion. This treatment is used in dry environments free of pollutants.

**Bicromatised Steel (BICRO)** A base of steel coated with a zinc layer by electrolysis, by means of submerging the pieces in a solution composed by zinc solutions, in accordance with UNE-EN 12329 Standard (ISO 2081), followed by a treatment with chromium salts, in accordance with UNE-EN 112050 Standard (ISO 4520). The electrolytic coverings are chromicised with the aim of retarding the formation of corrosion. Depending on the type of zinc layer and on the kind of final passivation, it shall have a different degree of protection on the steel, avoiding corrosion. This treatment is carried out once the piece has been formed.

The UNE-EN IEC 61537 Standard classifies the degree of resistance to corrosion of the system's components depending on the steel's electrolytic covering, belonging to Class 1 those with a minimum thickness of 5μm and to Class 2 those of 12μm. BASOR ELECTRIC uses Class 2 as its standard material.

This treatment is used in dry environments free of pollutants.

The bicromatisation process conducted by BASOR ELECTRIC complies with Directive 2002/95/EC RoHS, and does not use hexavalent chromium.

**Painted Steel (GSE)** Steel covered with an epoxy-polyester hybrid resin. The steel is covered by a powder resin and, subsequently, a polymerisation is carried out at a temperature of between 185-190°C during a period of 15 minutes. The micronage obtained is between 60 and 80 microns and is characterised by an excellent adherence. This covering is applied on galvanised sendzimir steel or on a base of steel. In this second case, before the electrostatic application of the resin, the pieces have the grease removed from them and also an amorphous phosphatation by spray in the treatment tunnel is conducted, as this improves the protection of the base material against corrosion. Painted steel is used in humid, light chemical and urban environments, whenever the decorative appearance is important.

**Stainless Steel AISI 304 (I304)** Denominated 1.4301 according to the numerical classification established by the UNE-EN 10088 Standard. Steel's protection happens due to the great affinity which metals such as chromium have with oxygen, which gives place to the creation of a protective chromium oxide layer which avoids the corrosion of iron. Type I304 stainless steels are carbon steels alloyed with chromium, nickel and manganese. They are ideal to be used in chemical and food industries, laboratories and wineries and in the naval industry. Under special conditions, and always under order, there is the possibility of conducting a passivation process. Passivation is a treatment which enhances stainless steel's protection against corrosion by means of forming a relatively inert film on the surface of a material which protects it against the action of external agents. The passivation film or layer does not allow these agents to interact, reducing or stopping the chemical reaction from happening.

UNE-EN IEC 61537 Standard classifies this steel's resistance to corrosion as Class 9A without the passivation treatment and as Class 9C with the passivation treatment.

Stainless steel AISI 304L has the same characteristics regarding corrosion as steel AISI 304, but offers a higher degree of welding and easier forming of the pieces with a thickness of more than 6mm.

**PVC Thermoplastic Polymer (PVCMI1)** Thermoplastic polymer developed by BASOR which offers a good resistance to fire. The PVCMI1 is a non-flammable and self-extinguishing material classified as M1 by UNE 23727 Standard and as VO by UL-94 Standard. PVCMI1 products are light, perfect electric insulators, chemically inert and totally innocuous. PVCMI1 is used in interior and exterior industrial facilities, but for external installations the use is limited to a good ambient ventilation and one meter distance between supports. This material providing a high degree of protection in adverse, chemical, marine or urban atmospheric situations. PVCMI1's mechanical characteristics vary depending on the temperature, reason why its use is restricted to service temperatures between -20°C and 60°C. BASOR's PVCMI1 is 100% recyclable and complies with Directive 2002/95/EC RoHS, in force since the 1st of July 2006.

**Polypropylene Thermoplastic Polymer (PP7035)** Thermoplastic polymer developed by BASOR which offers a good resistance to fire. PP7035 is a material which is “flame retardant”, as stated in UNE-EN IEC 61386 Standard. PP7035 products are light and perfect electric insulators and have a great chemical resistance. PP7035 is used in both interior and exterior industrial facilities, providing a high degree of protection in adverse, chemical, marine or urban atmospheric situations. PP7035's mechanical characteristics are stable within the range of environmental temperatures (service temperatures between -30°C and 90°C). BASOR's PP7035 is 100% recyclable and complies with Directive 2002/95/EC RoHS, in force since the 1st of July 2006.

**Polyamide Thermoplastic Polymer 6 (PA6-7016/PA6-9011)** Thermoplastic polymer developed by BASOR which offers a good resistance to traction/compression. PA6 is a “flame retardant” material, as stated in UNE-EN IEC 61386 Standard and classified as V2 in accordance with Standard UL-94. PA6 products are light, very flexible, have a long duration in situations of fatigue, are perfect electric insulators and have a great chemical resistance. PA6 is used for static applications in both interior and exterior industrial facilities, providing a high degree of protection in adverse, chemical, marine or urban atmospheric situations. PA6-9011 in black is resistant to ultraviolet rays. PA6's mechanical characteristics are stable within the range of environmental temperatures (service temperatures between -30°C and 90°C). BASOR's PA6 is 100% recyclable and complies with Directive 2002/95/EC RoHS, in force since the 1st of July 2006.

**Polyamide Thermoplastic Polymer 6 V0 (PA6-V0-7016/PA6-V0-9011)** Thermoplastic polymer developed by BASOR which offers a good resistance to traction/compression. PA6-V0 is a “flame retardant” material, as stated in UNE-EN IEC 61386 Standard and classified as V0 in accordance with Standard UL-94. PA6-V0 products are light, very flexible, have a long duration in situations of fatigue, are perfect electric insulators and have a great chemical resistance. PA6-V0 is used for static applications in both interior and exterior industrial facilities, providing a high degree of protection in adverse, chemical, marine or urban atmospheric situations. PA6-V0 in black is resistant to ultraviolet rays. PA6-V0's mechanical characteristics are stable within the range of environmental temperatures (service temperatures between -30°C and 90°C). BASOR's PA6 is 100% recyclable and complies with Directive 2002/95/EC RoHS, in force since the 1st of July 2006.

**Polyamide Thermoplastic Polymer 12 (PA12-7016/PA12-9011)** Thermoplastic polymer developed by BASOR which offers a good resistance to traction/compression. PA12 is a “flame retardant” material, as stated in UNE-EN IEC 61386 Standard and classified as V2 in accordance with Standard UL-94. PA12 products are light, very flexible, have an exceptional duration in situations of fatigue, are perfect electric insulators and have a great chemical resistance. PA12 is used for applications which demand flexure at a great speed (robotics), in both interior and exterior industrial facilities, providing a high degree of protection in adverse, chemical, marine or urban atmospheric situations. PA12-9011 in black is resistant to ultraviolet rays. PA12's mechanical characteristics are stable within the range of environmental temperatures (service temperatures between -30°C and 90°C). BASOR's PA6 is 100% recyclable and complies with Directive 2002/95/EC RoHS, in force since the 1st of July 2006.

|         | Interior |       |                   |               | Exterior |                   |               |
|---------|----------|-------|-------------------|---------------|----------|-------------------|---------------|
|         | Dry      | Humid | Chemical Industry | Food Industry | Urban    | Chemical Industry | Food Industry |
| GS      | R        | L     | NR                | NR            | L        | NR                | NR            |
| CINCADO | R        | L     | NR                | NR            | L        | NR                | NR            |
| BICRO   | R        | L     | NR                | NR            | L        | NR                | NR            |
| GC      | E        | R     | L                 | NR            | R        | L                 | L             |
| GSE     | R        | R     | R                 | R             | L        | L                 | NR            |
| I304    | E        | E     | R                 | R             | E        | R                 | L             |
| PVCM1   | R        | R     | R                 | R             | L        | L                 | L             |
| PP7035  | R        | R     | R                 | R             | R        | R                 | R             |
| PA6     | R        | R     | R                 | R             | R        | R                 | R             |
| PA6-V0  | R        | R     | R                 | R             | R        | R                 | R             |
| PA12    | R        | R     | R                 | R             | R        | R                 | R             |

R- Recommended / L- Limited resistance / NR- Not recommended / E – Excessive quality

Under special environmental conditions, materials and finishes which are different to the standard ones are required.

| Materials                             | Properties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Steel with an organic covering</b> | <ul style="list-style-type: none"> <li>- High resistance to corrosion, especially in chemical environments</li> <li>- Ideal for areas with strong temperature changes</li> <li>- Operates both at high and low temperatures</li> <li>- Good response to flexure</li> <li>- Flame retardant</li> <li>- Big array of decorative colours</li> </ul>                                                                                                                                                     |
| <b>Stainless Steel AISI 316</b>       | <ul style="list-style-type: none"> <li>- Electrical continuity</li> <li>- Excellent resistance to corrosion; as it has molybdenum in its chemical composition, its resistance to localised corrosion increases.</li> <li>- Ideal for areas with strong temperature changes</li> <li>- Operates both at high and low temperatures</li> <li>- Good response to flexure</li> <li>- Good response to fire (MO). Non-flammable material. No gas emissions.</li> <li>- 100% recyclable material</li> </ul> |
| <b>Aluminium</b>                      | <ul style="list-style-type: none"> <li>- Excellent electrical continuity</li> <li>- High resistance to corrosion</li> <li>- Excellent relationship between flexure resistance / weight</li> <li>- Moderate response to flexure</li> <li>- Good response to fire (MO). Non-flammable material. No gas emissions.</li> <li>- 100% recyclable material</li> </ul>                                                                                                                                       |

Depending on the property which one wishes to enhance, these are different finishes available:

**Steel Painted with Polyester (GSP)** Steel covered with a polyester resin. The steel is covered by a powder polyester resin and, subsequently, a polymerisation is carried out at a temperature of between 190-195°C during a period of 15 minutes. The micronage obtained is between 60 and 80 microns and is characterised by an excellent adherence. This covering is applied on galvanised sendzimir steel or on a base of steel. In this second case, before the electrostatic application of the resin, the pieces have the grease removed from them and also an amorphous phosphatation by spray in the treatment tunnel is conducted, as this improves the protection of the base material against corrosion. Steel Painted with Polyester Resin is resistant to ultraviolet rays, and is used in both interior and exterior humid environments, aggressive chemical environments and saline environments. BASOR's GSP system, with its covering, exceeds Class 8 of UNE-EN IEC 61537 Standard by far.

**Duplex Steel (GCE)** Hot dip galvanised steel, as stated in UNE-EN ISO 1461 Standard, with a subsequent epoxy-polyester covering. This layer, with its mechanical resistance and good chemical resistance, improves the hot dip galvanised initial layer's resistance to corrosion. The total thickness of the two layers of this protection system has an approximate value of 160µm.

An 85 µm GC covering is considered Class 8 by the UNE-EN IEC 61537 Standard and exceeds from 850 hours in the Neutral Salt Spray Test (ISO 9227). BASOR's GCE system, with its double covering, improves Class 8 considerably.

Moreover, this finish is suitable for aggressive environments classed as C4, C5-I and C5-M (UNE-EN ISO 12944-5).

**Stainless Steel AISI 316 (I316)** Denominated 14401 according to the numerical classification established by the UNE-EN 10088 Standard. Steel's protection happens due to the great affinity which metals such as chromium have with oxygen, which gives place to the creation of a protective chromium oxide layer which avoids the corrosion of iron. Type I316 stainless steels are similar to type 1304, but they contain a 2.5% of molybdenum which confers it a greater resistance to localised corrosion. It is ideal for use in very corrosive environments, even at high temperatures. Under special conditions, and always under order, there is the possibility of conducting a passivation process. Passivation is a treatment which enhances stainless steel's protection against corrosion by means of forming a relatively inert film on the surface of a material which protects it against the action of external agents. The passivation film or layer does not allow these agents to interact, reducing or stopping the chemical reaction from happening.

UNE-EN IEC 61537 Standard classifies this steel's resistance to corrosion as Class 9B without the passivation treatment and as Class 9D with the passivation treatment.



Stainless Steel AISI 316L, denominated 14401 according to the numerical classification established by the UNE-EN 10088 Standard has the same characteristics regarding corrosion as steel AISI 316, but offers a higher degree of welding and easier forming of the pieces with a thickness of more than 6mm.

**Laminated Aluminium (AL)** Half-hard aluminium alloy type 1050A, as spelled out in UNE 38114 Standard. Aluminium is a light material, excellent against corrosion in chemical environments and with a good resistance to “wearing due to atmospheric action” in most of its open-air uses. Aluminium covers itself spontaneously with a thin layer of oxide which prevents it from corroding. However, this layer disappears when acids are present, especially with percloric and chloridric acids.

**Extruded Aluminium (AL6063T6)** Manufactured in compliance with what is laid down in UNE 38337 Standard, extruded alloyed aluminium type 6063 which undergoes a subsequent tempering T6 process which confers it good mechanical characteristics, reaching a resistance which is three times greater than that of other types of aluminium which have not been thermally treated. Aluminium is a light material, excellent against corrosion in chemical environments and with a good resistance to “wearing due to atmospheric action” in most of its open-air uses. Aluminium covers itself spontaneously with a thin layer of oxide which prevents it from corroding.

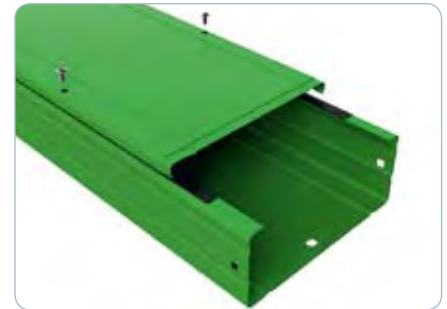
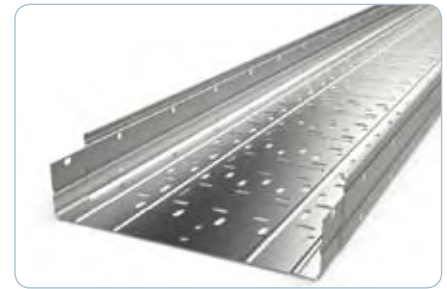
|                 | Interior |       |                   |               | Exterior |                   |               |
|-----------------|----------|-------|-------------------|---------------|----------|-------------------|---------------|
|                 | Dry      | Humid | Chemical Industry | Food Industry | Urban    | Chemical Industry | Food Industry |
| <b>GSP</b>      | R        | R     | L                 | R             | R        | L                 | R             |
| <b>GCE</b>      | E        | E     | R                 | R             | E        | R                 | R             |
| <b>I316</b>     | E        | E     | E                 | E             | E        | E                 | R             |
| <b>AL</b>       | E        | E     | R                 | R             | R        | R                 | R             |
| <b>AL6063T6</b> | E        | E     | R                 | R             | R        | R                 | R             |

R- Recommended / L- Limited resistance / NR- Not recommended / E - Excessive quality

## VENTILATION AND SEALING DEGREE

Choosing cable trays with a high degree of ventilation shall considerably improve the conductor's working temperature at the same intensity. However, non-perforated trays offer a higher level of protection against external agents.

Depending on the type of system, the aim shall be to obtain lower working temperatures in the conductors in order to improve the system's output, or simply to try to achieve a higher level of protection against the penetration of any kind of external agent inside the tray.



## DETERMINING OF THE WORKLOAD (WL)

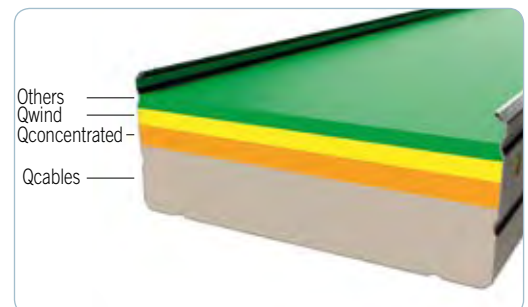
Canalisation systems must have an adequate mechanical resistance.

In order to select the most adequate canalisation system, the workload (WL) must be known, and will depend on the load of the conductors it supports as well as on the additional design loads which are taken into consideration.

$$WL = Q_{cable} + Q_{concentrated} + Q_{snow} + Q_{wind} + \dots$$

Example:

|                         |         |
|-------------------------|---------|
| Load of the conductors: | 32 kg/m |
| Additional loads:       | 16 kg/m |
| Workload (WL):          | 48kg/m  |



In a system, there are different types of loads which can be taken into consideration. The designer shall be in charge of determining which loads are applicable in each case, depending on the conditions (location, environment, etc).

### Weight of the cables:

The cables' weight is modelled as a linear distributed load and its value shall be determined by the number of cables and their individual weight. If a Security Coefficient (SC) is determined for future enlargements, this factor shall have to be necessarily taken into account in the calculation dealing with the cables' weight and not only when determining the Minimum area.

Therefore, the cables' final weight shall be calculated as the summation of the number of cables of each type multiplied by their increased weight, multiplied by the security coefficient, and shown as follows:

$$\text{Weight of the cables} = \left(1 + \frac{SC}{100}\right) \sum n \cdot \text{Weight}$$



**Momentary or concentrated loads:**

Static momentary loads (projectors, junction boxes, signalling elements, etc.) which are suspended from cable tray shall be considered an additional load to the system and must be taken into account.

Should the concentrated loads be constant in the system, they shall be considered as an additional distributed load, and can be represented by way of the following equivalence:

$$Q_{dis} (kg/m) = \frac{2 \times Q_{moment} (kg)}{Span\ length\ (m)}$$



Should the momentary load be exceptional in the system (and only if the system allows it), we recommend momentarily reducing the support span until the maximum deflection requirements are fulfilled. The momentary load shall be distributed between the supporting elements which are nearer to the momentary load, reason why they shall be dimensioned according to the new requirements.

**IMPORTANT! Cable trays should NEVER be used as walkways.**

**Wind loads:**

Wind is an atmospheric condition which always has to be considered in the case of outdoor installations. Wind exerts a dynamic pressure on the trays' surfaces, both on vertical and horizontal surfaces.

Under normal conditions (1 atm and 15°C), the pressure exerted by the effect of wind shall depend on the wind's speed.

One important aspect when designing a tray system is the wind pressure's impact angle, reason why BASOR recommends considering that, for outdoor installations, the impact pressure's design angle ranges between (-60°/60°) for systems which run parallel to the floor. The least favourable impact pressure shall be the pressure which is perpendicular to the surface.

| w(km/h) | w(m/s) | P(Kg/m <sup>2</sup> ) |
|---------|--------|-----------------------|
| 54      | 15     | 14.06                 |
| 108     | 30     | 56.25                 |
| 144     | 40     | 100.00                |
| 180     | 50     | 156.25                |

**Example:**

A 600x100 cable tray placed in a horizontal position, with a wind of 30 m/s and a wind attack angle of -60° to 60° with respect to the axis parallel to the floor:

**Wing effect:**  $0.1 \times 56.25 = 5.62\text{ kg/m}$

**Base effect:**  $0.6 \times 56.25 \times \sin 60 = 29.23\text{ kg/m}$

When perforated tray systems (or ladder type cable trays) with cover are installed, it is also necessary to take the aerodynamic effects into consideration, as they produce a difference in pressures between both sides of the cover which can cause such cover to raise itself with a gust of wind. In order to avoid this from happening, it is essential to fix the cover with the systems recommended for each family of products.

Recommendation: Whenever wind may possibly affect the system, BASOR recommends fixing the cable tray to every support with a minimum of two fixation elements and two cover fixations placed every 1.5 metres.

For complex systems or systems with high wind loads, please contact our technical department.

**Snow loads:**

In places where there is a danger of snow accumulating on the cable trays, the linear load must be taken into consideration, with regards to the maximum thickness of snow/ice which the tray can store. The snow/ice's maximum thickness shall depend on the system's location. An estimated conservative value could lie between 15-25 mm of snow. The density of snow/ice is 600-925 kg/m<sup>3</sup>.

**Example:**

**B = Base = 400 mm**

**t = Thickness of the ice = 20 mm**

**d = Considered density = 925 kg/m<sup>3</sup>**

$$Q_{\text{snow}} (\text{kg/m}) = B \times t \times d$$

**Seismic loads:**

Seismic loads are forces generated by the movements of the earth (earthquakes). When there is an earthquake, these loads act horizontally on the structures of the buildings, the canalisation systems, etc.

Most canalisation systems are designed to support both gravitational and vertical loads, but they aren't usually prepared to support lateral loads. However, canalisations behave more consistently when facing lateral loads than when facing vertical movements. Therefore, the tray's or canalisation's behaviour during a seismic movement shall mainly depend on the support system employed.

There are other factors which shall also contribute to the seismic stability, such as the cables' fixation systems in order to avoid them from moving freely.

**SAVE WORKING LOAD (SWL)**

The save working load (SWL) is the maximum load which can be applied during normal use, without danger. Therefore, the workload shall always be less than the SWL.

In canalisations, the SWL is the maximum distributed load which the canalisation shall have to support for a certain deflection and support span, always respecting the safety margin established to prevent it from collapsing. BASOR determines the SWL of its products in accordance with Standard UNE-EN IEC 61537.

In supports and fixation elements, the SWL shall depend on the type of system and, therefore, different types of solutions shall be defined for each product bearing in mind their save working loads. For all those situations which do not fall under the "standard" category, BASOR's technical department shall study each case individually.

As it shall be explained further on, in order to determine the most adequate cable conduction system, the total LINEAR cost of the installation (trays, supports, fixation elements, etc.) has to be taken into consideration, as the LINEAR cost of both the supports and the fixation elements mainly depends on the support span.

There is no international classification of the canalisation systems depending on its save working load (SWL). However, countries like the USA, Canada or Mexico have their own classifications which divide the canalisation systems into categories depending on their SWL.

|                  |           | Distance between supports m (ft) |         |         |        |          |          |          |
|------------------|-----------|----------------------------------|---------|---------|--------|----------|----------|----------|
|                  |           | 1.5 (5)                          | 1.8 (6) | 2.4 (8) | 3 (10) | 3.7 (12) | 4.9 (16) | 6.0 (20) |
| SWL kg/m (lb/ft) | 18 (12)   | 5AA                              | 6AA     |         |        |          |          |          |
|                  | 37 (25)   | 5BB                              | 6BB     |         | A      |          |          |          |
|                  | 67 (45)   |                                  |         |         |        |          |          |          |
|                  | 74 (50)   |                                  | 6A      | 8A      |        | 12A      | 16A      | 20A      |
|                  | 97 (65)   |                                  |         |         | C      |          |          |          |
|                  | 112 (75)  |                                  | 6B      | 8B      |        | 12B      | 16B      | 20B      |
|                  | 149 (100) |                                  | 6C      | 8C      |        | 12C      | 16C      | 20C      |
|                  | 179 (120) |                                  |         |         | D      |          |          |          |
|                  | 299 (200) |                                  |         |         | E      |          |          |          |
|                  |           |                                  |         |         |        |          |          |          |

 NMX designations  
 CSA designations  
 NEMA and NMX designations

## SPAN LENGTH

A canalisation's save working load (SWL) is a characteristic which depends on the span length. As the span length increases, the save working load decreases.

Choosing the right span length is a decision which shall depend on the system's conditions as well as on the cost of the cable conduction system (tray + support).

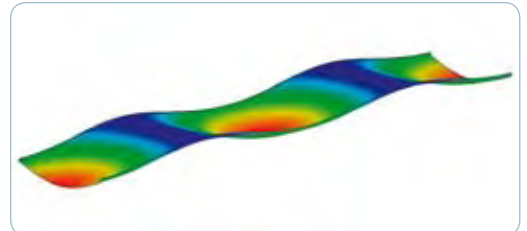
In many cases, it is estimated that cable conduction systems with a lower SWL are cheaper but, in most cases, this is not true, as they require the installation of more supports and, therefore, the set-up time increases considerably.



## DEFLECTION

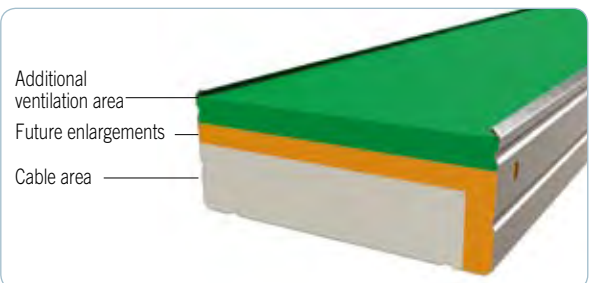
The deflection is the deformation generated in the canalisation due to the workload which it has to support.

According to Standard UNE-EN IEC 61535 with regards to the SWL, the longitudinal deflection located halfway through the span length must not be greater than  $d/100$  of the span length and the transverse deflection must not be greater than  $B/20$  of the canalisation's width.



## MINIMUM AREA OF THE CABLE TRAY (AMIN)

Another factor which shall affect the system's dimensions apart from the ones which have been explained up to now is the minimum area required by the system.



### Cable-filling area:

In order to determine the total cable-filling area, simply take a look at the useful section of each of the cables which shall run through the tray and add them up.

To calculate the empty spaces which shall inevitably be left between the cables, a cable's useful section shall be considered as the square of its diameter.

$$S_{\text{useful}} = \varnothing^2$$





### Security Coefficient (SC) for future enlargements:

One of the many characteristics of cable trays is their capacity and ease of enlargement. Therefore, it is important to take into account a percentage of capacity to be used for future enlargements.

This way, the minimum area necessary for any common system shall be calculated as the summation of the useful sections of the cables and the subsequent application of the safety coefficient.

$$A_{min} = \left(1 + \frac{SC}{100}\right) \sum n \cdot S_{useful}$$

BASOR recommends leaving around 40% for future enlargements.

### Additional ventilation area:

Depending on the system, the designer may decide to add another safety coefficient to the calculated area in order to ensure a good ventilation of the cables.

## SPACE LIMITATIONS

One of the factors which may limit the choice is space limitations, regarding both the width and height available for the system's installation.

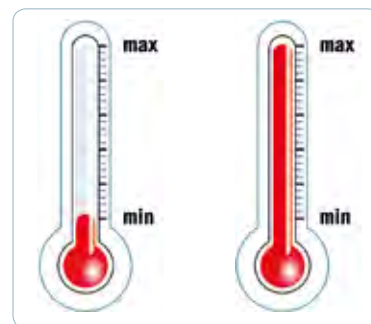


BASOR recommends leaving a free space of between 150 and 300 mm between cable trays to facilitate access to the canalisation system. The distance shall depend on how easy it is to access the canalisation and the need to handle it. Under no circumstance should the electrical system be placed under a system dealing with liquids.

## SERVICE TEMPERATURE. THERMAL CONTRACTIONS AND EXPANSIONS

Service temperatures refer to the cable conduction system's range of temperatures during its storage, set-up and use, without making the system experience a fall in its technical characteristics.

In all cable conduction systems we shall have to indicate the minimum and the maximum service temperatures. If the temperature range is broad, the effect of contraction and expansion of the materials shall have to be observed.



This effect expands or contracts the material depending on its expansion coefficient. In order to be able to measure the effects of expansion and compression, the material has to be compared at two different temperatures, reason why it is important that the cable canalisation system's design takes into account the range of service temperatures in which it's going to be used. At a glance, the effects of contraction/expansion can't be perceived, but in the case of bigger cable trays this effect becomes more obvious.

Our union systems use longitudinal holes to absorb the movements caused by thermal expansion.

BASOR ELECTRIC recommends separating the straight stretches, leaving space for the unions to act as expansion joints which will allow these movements. The length of the stretch of trays, the difference in service temperature and the material used shall determine the maximum straight stretch necessary to install a union which will behave as an expansion joint.

In systems which include PVC cable trays and which have to put up with strong temperature changes, BASOR recommends separating the stretches in the trays 10 mm one from the other, due to the high linear expansion coefficient of the material.

**DISTANCE BETWEEN EXPANSION JOINTS FOR A MOVEMENT OF 20 mm**

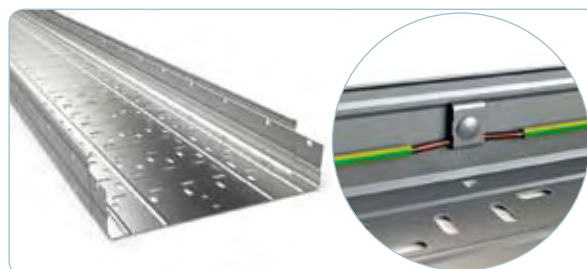
| Difference in temperature<br>°C | Steel<br>m | Stainless Steel<br>m | Aluminium<br>m |
|---------------------------------|------------|----------------------|----------------|
| 30                              | 99         | 60                   | 45             |
| 50                              | 51         | 36                   | 27             |
| 70                              | 36         | 24                   | 21             |

## ELECTRICAL CONTINUITY

As stated in Standard UNE-EN IEC 61537, cable conduction systems are classified into two groups, depending on their capacity to conduct an electric current, entitled "Systems with electrical continuity" and "Systems without electrical continuity".

In cable trays systems with electrical continuity, we shall have to ensure that the same level of power runs throughout the whole system.

In tray systems or tray systems without electrical continuity, we shall have to ensure that the resistance of the material's surface is high enough so as to avoid danger in case of a leak.

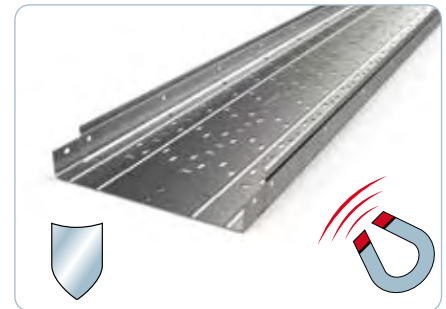


Cable conduction systems are passive elements, in their normal use, with respects to electromagnetic influences, to emissions and to immunity.

If a metallic cable conduction system displays good electrical continuity and is connected to an equipotential bonding ground, the cable's disruption connection decreases, improving the Electromagnetic Compatibility (EMC).

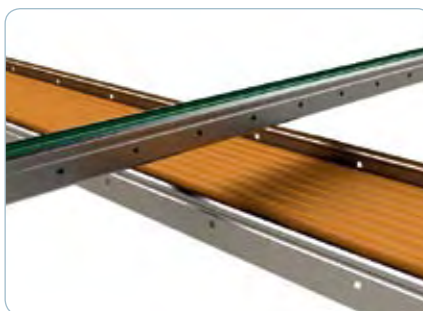
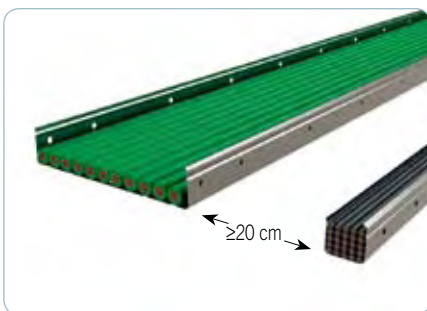
Moreover, if the cable conduction system with electrical continuity is composed by the tray and its cover, its degree of protection against disruptions improves considerably.

Cable conduction systems without electrical continuity do not protect against electromagnetic fields. In this case, the only solution to improve the electromagnetic compatibility is to increase the distance between the cable management systems.

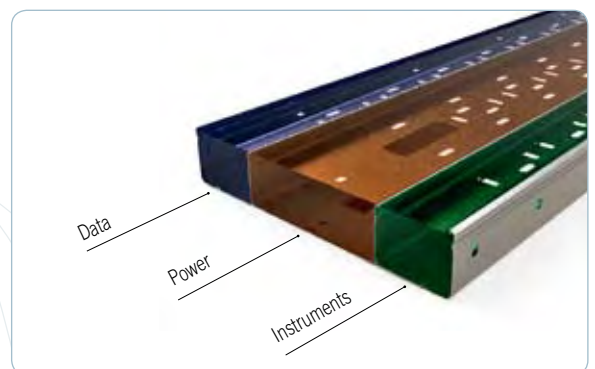


#### BASOR recommends:

- Separating power and data circuits more than 20 cm
- Circuits must cross one another at an angle of 90°
- Connect the cable management systems to the equipotential ground network every 30 m.



In places where space is limited, different circuits can be installed in one sole cable management system, separated by a metallic divider.

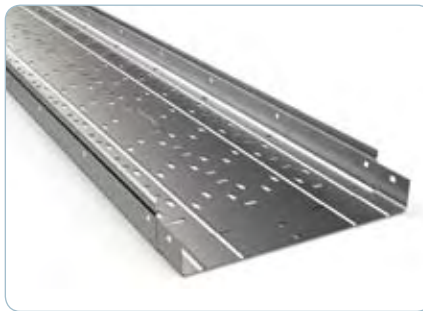


When a cable conduction system is being installed, various factors which affect the total cost of the system have to be taken into consideration; however, the cost of the materials must not be a decisive factor.

**These types of systems involve the following costs:**

- **The cost of the cable tray:** It is the cost derived from the supplying of the cable trays and of all the accessories required for its assembly (such as bolts, union joints, covers, etc.)
- **The cost of the supports:** It is the cost derived from the supplying of all the supports, as well as their corresponding anchorage elements for ceiling, wall or floor.
- **The cost of the labour for installing the supports:** For installing the supports on the surface on which they have to be mounted (ceiling, wall or floor), as well as the drilling of such surfaces, and the set-up of the corresponding anchorage elements for a good fixation.
- **The cost of the labour for the placing of the cable tray:** Understood as the uniting of the different stretches and the fixing of the supports.
- **The cost of the bolts:** The cost of all the bolts used in the system, both for the uniting of the different stretches and for uniting the tray and the supports.

With regards to all of this, Basor Electric recommends (in order for the installation to be more efficient) bearing in mind all of the abovementioned costs, in accordance with the system's characteristics in kg/m.



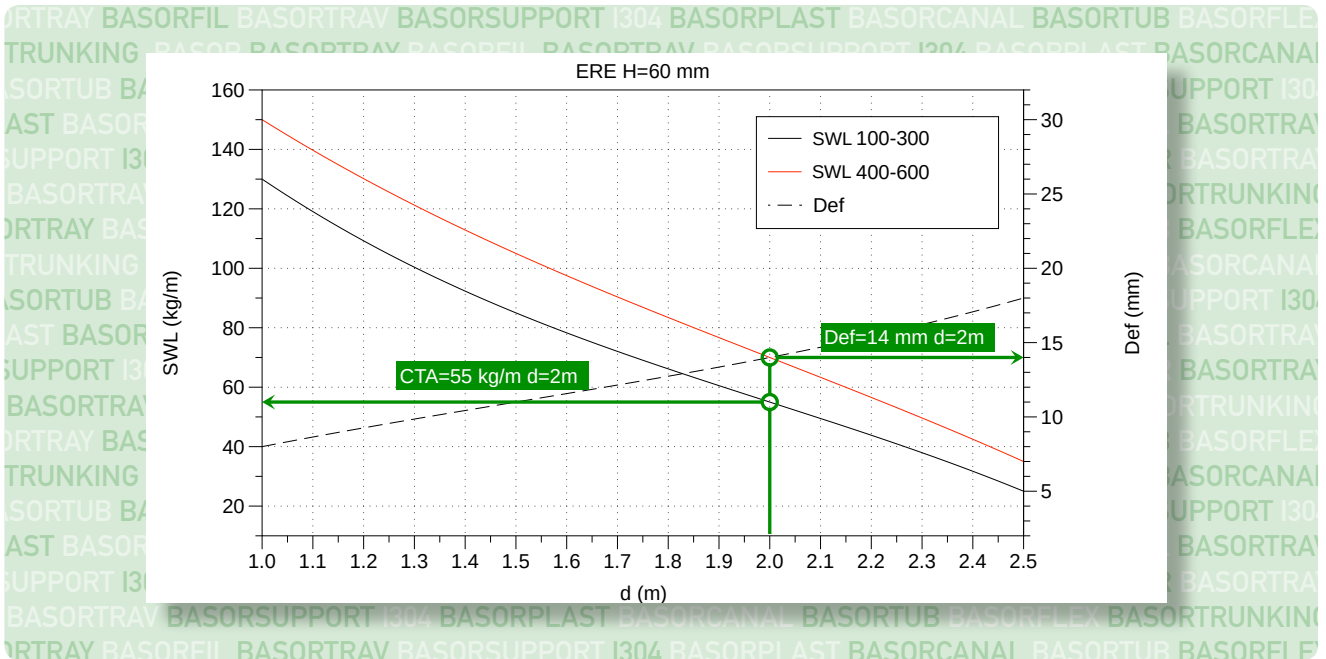
$$\frac{\text{€ of the support system}}{\text{support span (d)}} + \frac{\text{€}}{m} \text{ of the canalisation} = \frac{\text{€}}{m} \text{ of the system}$$

To sum it up, we can conclude that using reinforced products (due to the fact that they are able to support greater loads and depending on each case) may save installation costs, both regarding the number of supports needed (greater distance between them) and in the labour needed to set them up and join them to the cable tray, up to the point where the global installation cost is lower than when using cheaper products.

**BASOR ELECTRICS** uses graphs to represent the save working load values corresponding to the different products:

## CABLE TRAYS

The graph represents the distance between supports  $d(m)$  on the horizontal axis, the SWL (kg/m) on the left vertical axis and deflection (mm) in the centre of the support span on the right vertical axis.

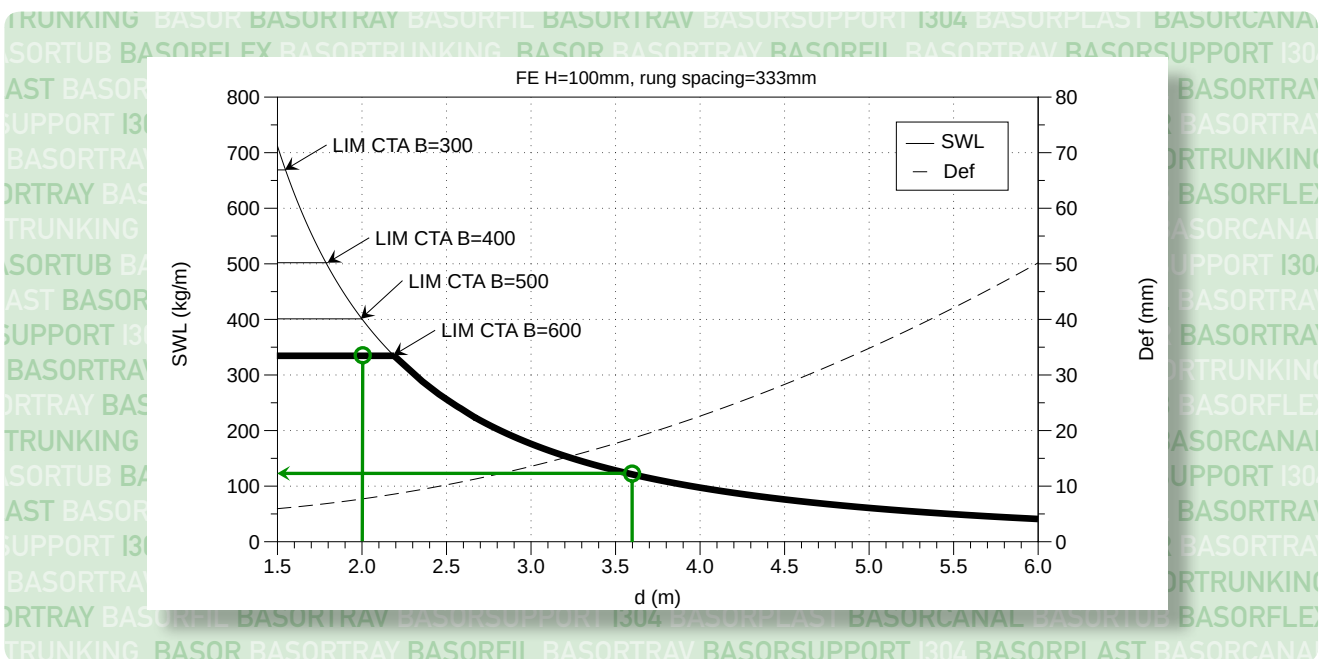


In order to find out the SWL corresponding to the tray ERE 200x60 placed at 2 m, one must search for the value 2 on the horizontal axis, go up to meet the corresponding SWL curve and obtain (on the left vertical axis) the value of its SWL which, for this piece of equipment, is equal to 55 kg/m. If one goes up to meet the deflection curve (right vertical axis), the obtained deflection value at the centre of the support span is of 14 mm.

In the case of ladder type cable trays, there are SWL values which are limited by the load which the rung is capable of supporting and not by the total value.

For example, for the FE 600x100 cable ladder, the SWL has an approximated limited maximum value of 335 kg/m.

The following graph highlights the curve for B=600.

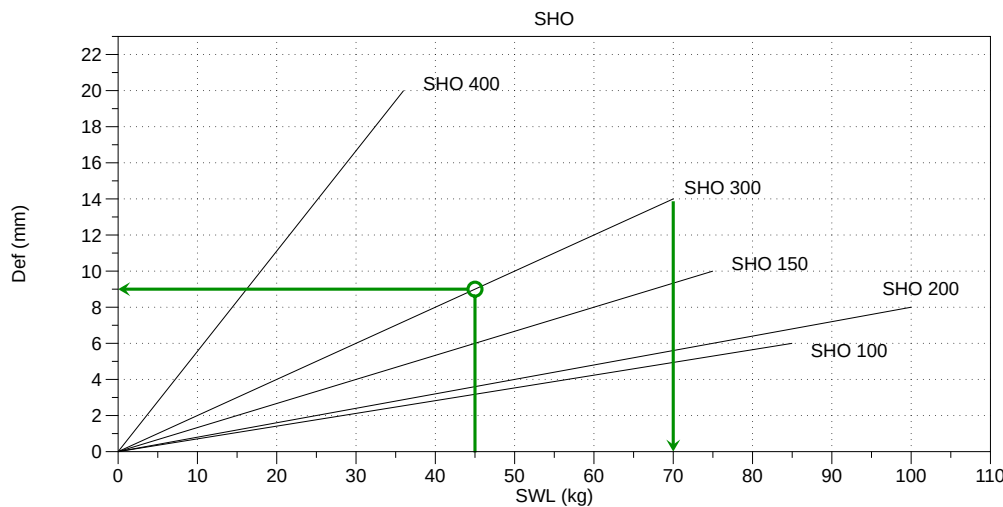


Therefore, for a span length of 2 m, the SWL would be 335 kg/m whilst for a span length of 3.6 m, the SWL would be 120 kg/m.



## HORIZONTAL SUPPORTS

This graph represents the SWL (kg) on the horizontal axis and the deflection on the edge of the horizontal support on the vertical axis.



For the SHO 300 support, if we draw a straight line which goes down to meet the horizontal axis, we observe that the SWL correspondent to the SHO 300 support is 70 kg.

In order to find out the SHO 300 support's deflexion with a load of 45 kg, we search for the value 45 on the horizontal axis and draw a line upwards to meet the corresponding curve to obtain (on the left vertical axis) the value of its deflexion, equivalent to 9 mm in this example.

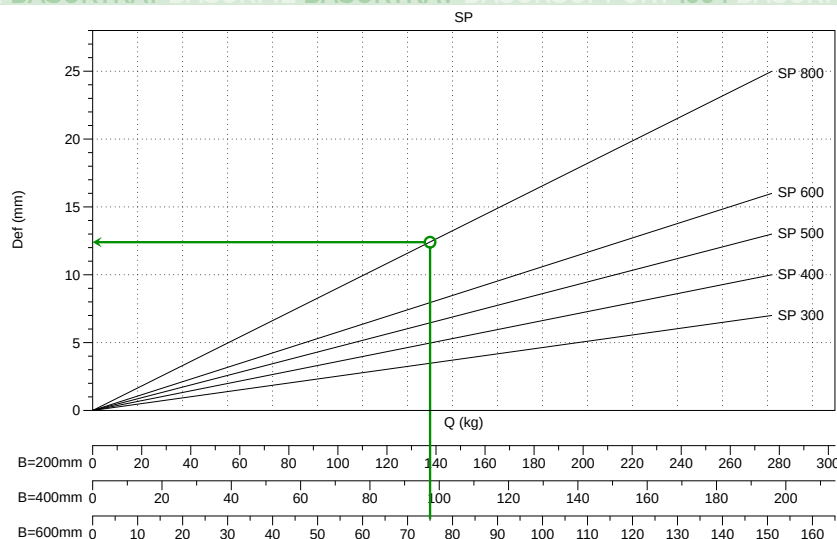
## PENDANTS

### 3.1 Load on one side:

Should the horizontal supports which are united to the pendant be on one side, the simplified graph which shows the 3 predetermined horizontal support widths on the horizontal axis and the deformation on the left vertical axis can be used.

In order to find out if you can use an SP800 as a pendant with three supports, two with a width of B=400 equivalent to 30 kg each and one with a width of B=500 equivalent to 15 kg, all located on the same side of the pendant, the following steps must be followed:

- The total load is  $Q = 2 \times 30 + 15 = 75$  kg
- The width B=500 is selected, being the greatest of among the horizontal supports. As width B=500 is not shown on the horizontal axes, select the next in size which, in this case, is B=600.
- Look for the intersection with the straight line corresponding to SP800.
- Check that you are within the SWL values (that is to say, that it does effectively intersect with the straight line corresponding to SP800). On the vertical axis, one may observe the pendant's deflection which, in this example, is equivalent to 13 mm.



## 3.2 Load on both sides:

Should there be horizontal supports on both sides of the pendants, then the safety area graph is used.

As an example, we shall consider the case of an SP600 support with two horizontal supports on the right hand side and one on the left hand side:

- One B=300 (40 kg) and the other B=600 (55 kg) on the right hand side
- One B=400 (50 kg) on the left hand side

We add up the total load.

$$F_{tot} = \sum_i F_i$$

$$F_{tot} = 40 + 55 + 50 = 145 \text{ kg}$$

We add up the momentums of the loads on each side,

$$M_{right} = \sum_i F_{i_{right}} \times \left( \frac{B_{i_{left}} + 50}{2000} \right)$$

$$M_{right} = 40 \times 0.175 + 55 \times 0.325 = 24.875 \text{ kg}\cdot\text{m}$$

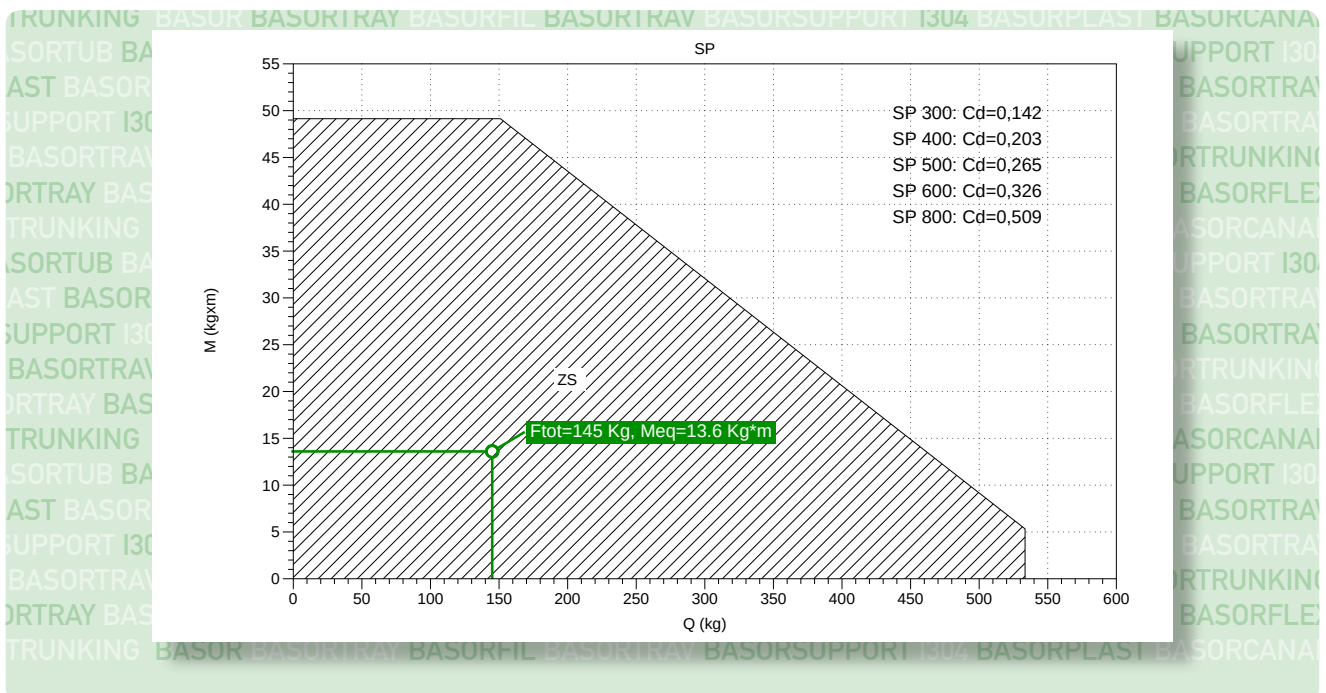
$$M_{left} = \sum_i F_{i_{left}} \times \left( \frac{B_{i_{left}} + 50}{2000} \right)$$

$$M_{left} = 50 \times 0.225 = 11.25 \text{ kg}\cdot\text{m}$$

We calculate the equivalent momentum as the difference between the momentums of both sides

$$M_{eq} = M_{right} - M_{left} = 24.875 - 11.25 = 13.625 \text{ kg}\cdot\text{m}$$

Once we have calculated this data ( $F_{tot}$ ,  $M_{eq}$ ) we may consult the graph and check that we are within the safety working area.



To calculate the pendant's maximum deflection, we must multiply the SP600's deformation coefficient by the equivalent momentum.

$$\text{Deformation} = M_{eq} \times Cd = 13.625 \times 0.326 = 4.44 \text{ mm}$$

## UNIT CONVERSION TABLE

| A                          | B                        | A → B                  | B → A                       |
|----------------------------|--------------------------|------------------------|-----------------------------|
|                            |                          | MULTIPLY BY            |                             |
| Length                     |                          |                        |                             |
| metres (m)                 | feet (ft)                | 3.28084                | 0.30480                     |
| metres (m)                 | inches (in)              | 39.37008               | 0.02540                     |
| Area                       |                          |                        |                             |
| metres squared (m²)        | (ft²)                    | 10.76391               | 0.092903                    |
| metres squared (m²)        | (in²)                    | 1550.003               | 6.451600 x 10 <sup>-4</sup> |
| Volume                     |                          |                        |                             |
| cubic metres (m³)          | (ft³)                    | 35.31466               | 0.028317                    |
| cubic metres (m³)          | (in³)                    | 61023.74               | 1.638707 x 10 <sup>-5</sup> |
| Temperature                |                          |                        |                             |
| Degrees Celsius            | Degrees Fahrenheit       | t(°C) = (t(°F)-32)/1.8 | t(°F) = 1.8.t(°C)+32        |
| Section properties         |                          |                        |                             |
| Resistant module W (m³)    | W (in³)                  | 61023.74               | 1.638707 x 10 <sup>-5</sup> |
| Inertia momentum (m⁴)      | I (in⁴)                  | 2402510                | 4.162314 x 10 <sup>-7</sup> |
| Mass                       |                          |                        |                             |
| kilograms (kg)             | pounds (lb)              | 2.20462                | 0.45359                     |
| Forze                      |                          |                        |                             |
| Newtons (N)                | kilograms of force (kgf) | 9.80665                | 0.101972                    |
| Newtons (N)                | Pounds of force (lbf)    | 0.22481                | 4.448220                    |
| Par (or torsion momentum)  |                          |                        |                             |
| Newtons metre (N·m)        | (lbf·ft)                 | 0.737562               | 1.355818                    |
| Newtons metre (N·m)        | (lbf·in)                 | 8.850748               | 0.112985                    |
| Mass per unit of length    |                          |                        |                             |
| kilograms per metre (kg/m) | (lb/ft)                  | 0.671969               | 1.488164                    |
| kilograms per metre (kg/m) | (lb/in)                  | 0.559974               | 1.785797                    |



## TECHNICAL INDEX CARDS



• SCM

CARBON STEEL

BASORTRAY

ER

|                                              |    |
|----------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR ER             | 26 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (ER)     | 27 |
| DECLARATION OF CONFORMITY FOR ER+COVER       | 28 |
| TECHNICAL INDEX CARD FOR TRUNKING (ER+COVER) | 29 |

ERE

|                                               |    |
|-----------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR ERE             | 30 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (ERE)     | 31 |
| DECLARATION OF CONFORMITY FOR ERE+COVER       | 34 |
| TECHNICAL INDEX CARD FOR TRUNKING (ERE+COVER) | 35 |

FRE

|                                               |    |
|-----------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR FRE             | 36 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (FRE)     | 37 |
| DECLARATION OF CONFORMITY FOR FRE+COVER       | 40 |
| TECHNICAL INDEX CARD FOR TRUNKING (FRE+COVER) | 41 |

BS

|                                          |    |
|------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR BS         | 42 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (BS) | 43 |

U

|                                         |    |
|-----------------------------------------|----|
| DECLARATION OF CONFORMITY FOR U         | 46 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (U) | 47 |

OMEGA

|                                             |    |
|---------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR OMEGA         | 50 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (OMEGA) | 51 |

BASORFIL

BFR/BF

|                                              |    |
|----------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR BFR            | 54 |
| DECLARATION OF CONFORMITY FOR BF             | 55 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (BF/BFR) | 56 |

BASORTRAV

FE

|                                                          |    |
|----------------------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR FE                         | 58 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (FE H60)             | 59 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (FE H75/100/120/150) | 60 |

BSL

|                                           |    |
|-------------------------------------------|----|
| DECLARATION OF CONFORMITY FOR BSL         | 62 |
| TECHNICAL INDEX CARD FOR CABLE TRAY (BSL) | 63 |

BASORSUPPORTS

WALL SUPPORTS

|                            |    |
|----------------------------|----|
| TECHNICAL INDEX CARD (SHO) | 64 |
| TECHNICAL INDEX CARD (SCR) | 65 |
| TECHNICAL INDEX CARD (SRB) | 66 |
| TECHNICAL INDEX CARD (SR)  | 67 |
| TECHNICAL INDEX CARD (SPL) | 68 |
| TECHNICAL INDEX CARD (SHL) | 69 |
| TECHNICAL INDEX CARD (SP)  | 70 |
| TECHNICAL INDEX CARD (SHR) | 71 |
| TECHNICAL INDEX CARD (SPD) | 72 |
| TECHNICAL INDEX CARD (SHV) | 73 |
| SIMPLE HEAD BRACKET        | 74 |

CEILING/FLOOR SUPPORTS

|                                                 |    |
|-------------------------------------------------|----|
| TECHNICAL INDEX CARD (SHOT)                     | 75 |
| TECHNICAL INDEX CARD (SVO)                      | 76 |
| TECHNICAL INDEX CARD (SHO 400)                  | 77 |
| TECHNICAL INDEX CARD (PC + HEAD BRACKET)        | 78 |
| TECHNICAL INDEX CARD (PC + SIMPLE HEAD BRACKET) | 79 |
| TECHNICAL INDEX CARD (SPL)                      | 80 |
| TECHNICAL INDEX CARD (SP)                       | 81 |



|        |                                               |     |
|--------|-----------------------------------------------|-----|
|        | TECHNICAL INDEX CARD (SZ)                     | 82  |
|        | TECHNICAL INDEX CARD (SPD)                    | 83  |
|        | TECHNICAL INDEX CARD (HEAD SUPPORT + IPN80)   | 84  |
|        | <b>FLOOR SUPPORTS</b>                         |     |
|        | TECHNICAL INDEX CARD (SV)                     | 85  |
| • I304 | <b>BASORTRAY ERE I304</b>                     |     |
|        | TECHNICAL INDEX CARD (ERE I304)               | 86  |
|        | TECHNICAL INDEX CARD (ERE + COVER I304)       | 87  |
|        | <b>BASORFIL BFR I304</b>                      |     |
|        | TECHNICAL INDEX CARD (BFR)                    | 88  |
|        | <b>BASORSUPPORT I304</b>                      |     |
|        | TECHNICAL INDEX CARD (SCR I304)               | 90  |
|        | TECHNICAL INDEX CARD (SV I304)                | 91  |
|        | TECHNICAL INDEX CARD (SVO I304)               | 92  |
|        | TECHNICAL INDEX CARD (PC + HEAD BRACKET I304) | 93  |
| • SCP  | <b>BASORPLAST BPB</b>                         |     |
|        | DECLARATION OF CONFORMITY FOR BPB             | 94  |
|        | TECHNICAL INDEX CARD FOR TRUNKING (BPB)       | 95  |
|        | <b>BASORPLAST BPI</b>                         |     |
|        | DECLARATION OF CONFORMITY FOR BPI             | 96  |
|        | TECHNICAL INDEX CARD (BPI)                    | 97  |
|        | DECLARATION OF CONFORMITY FOR BPI + COVER     | 100 |
|        | TECHNICAL INDEX CARD FOR TRUNKING (BPI+COVER) | 101 |
|        | <b>BASORSUPPORT SCP</b>                       |     |
|        | TECHNICAL INDEX CARD FOR SHG                  | 102 |
| • SCE  | <b>BASORCANAL CT</b>                          |     |
|        | DECLARATION OF CONFORMITY FOR CT              | 104 |
|        | TECHNICAL INDEX CARD FOR TRUNKING (CT)        | 105 |
| • SBT  | <b>BASORTUB</b>                               |     |
|        | DECLARATION OF CONFORMITY FOR R1250 PVC       | 106 |
|        | TECHNICAL INDEX CARD FOR R1250 PVC            | 107 |
|        | DECLARATION OF CONFORMITY FOR R1250 RLH       | 108 |
|        | TECHNICAL INDEX CARD FOR R1250 RLH            | 109 |
|        | DECLARATION OF CONFORMITY FOR RE1250 RLH      | 110 |
|        | TECHNICAL INDEX CARD FOR RE1250 RLH           | 111 |
|        | <b>BASORFLEX</b>                              |     |
|        | DECLARATION OF CONFORMITY FOR FLEXL PA6       | 112 |
| • CEP  | <b>BASORTRUNKING</b>                          |     |
|        | DECLARATION OF CONFORMITY FOR BASORTRUNKING   | 113 |
| • ACC  | <b>BASORPERFIL 41/82</b>                      |     |
|        | TECHNICAL INDEX CARD FOR 41X21X1.5            | 114 |
|        | TECHNICAL INDEX CARD FOR 41X21X2.5            | 115 |
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|        | TECHNICAL INDEX CARD FOR CT 20X10X1           | 119 |
|        | TECHNICAL INDEX CARD FOR CT 30X30X1.5         | 120 |
|        | TECHNICAL INDEX CARD FOR CT 40X20X1.5         | 121 |
|        | TECHNICAL INDEX CARD FOR PC PROFILE           | 122 |
|        | TECHNICAL INDEX CARD FOR RA 35X14X1.5         | 123 |
|        | TECHNICAL INDEX CARD FOR RA 50X14X1.5         | 124 |
|        | TECHNICAL INDEX CARD FOR Z 35X50X35X3         | 125 |

**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:  
**BASORTRAY ENERGY ER**  
Declares that the product:  
**BASORTRAY ENERGY ER**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.  
Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**  
**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)  
2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.  
Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**  
**Is suitable and safe for the intended use and is in conformity with the following standard:**  
UNE EN 61537

**Información adicional:**  
**Additional information:**

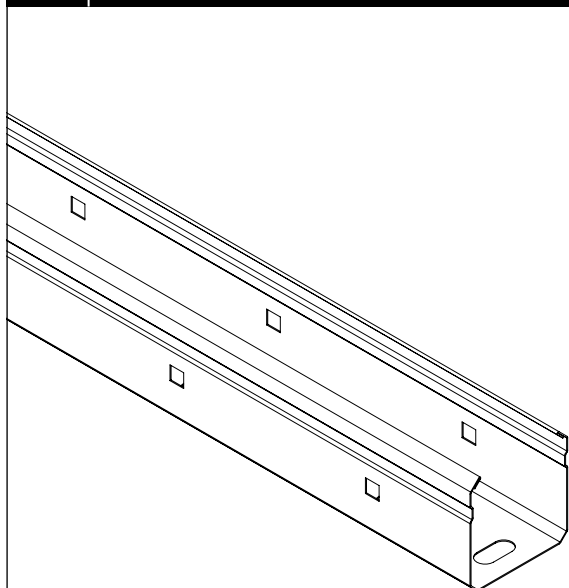
Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.  
This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE: **2009**  
Year of affixing of the CE marking:

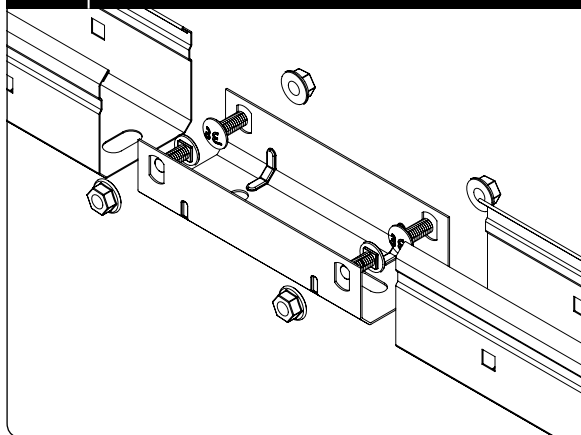
Lugar y Fecha:  
Place and date:

Gandía Marzo 2009  
Gandía March 2009

Departamento Técnico

**ER 50x50****Model:** 50x50**Finishes:** GS; HDG**Characteristics of the cable tray:**

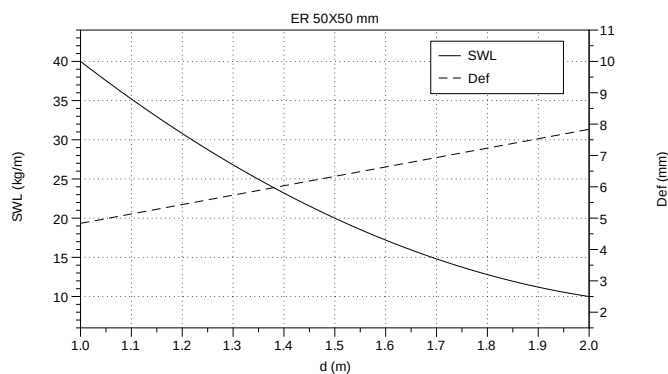
- Metallic
- Non-flame propagating component
- System with electrical continuity characteristic
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion
  - GS coating: Class 3
  - HDG coating: Class 5
- Classification according to the free base area:
  - Non-perforated tray: Classification A
  - Perforated tray: Classification B
- Impact resistance: 5J

**INSTRUCTIONS FOR USE**

- For the assembly of the tray, a "U" shape union joint is used. In order to fix the joint, four B1 bolts are needed.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**Accessories:**

This family has the following accessories: Cover, horizontal bend, vertical inside, vertical outside, coupler.

**SAVE WORKING LOAD**

**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:  
**BASORTRAY ENERGY ER CON TAPA ER**  
Declares that the product:  
**BASORTRAY ENERGY ER WITH COVER ER**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.  
Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**  
**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)  
2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.  
Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**  
**Is suitable and safe for the intended use and is in conformity with the following standard:**  
UNE EN 61537

**Información adicional:**  
**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

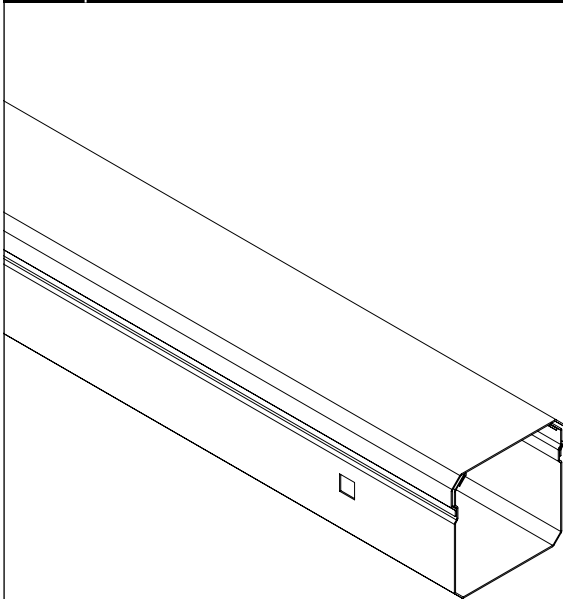
Año de fijación del marcado CE: **2009**  
Year of affixing of the CE marking:

Lugar y Fecha:

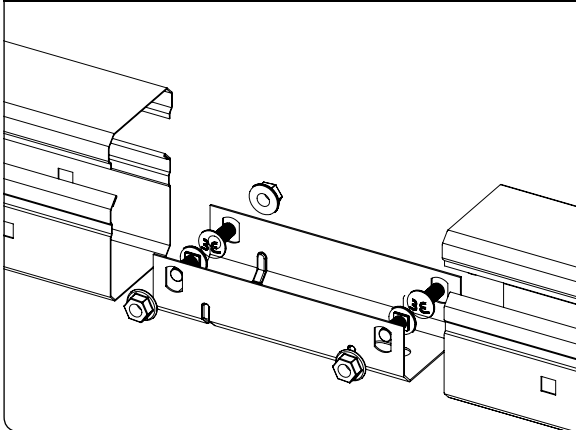
Place and date:

Gandía Marzo 2009  
Gandía March 2009

Departamento Técnico

**ER 50x50+COVER****Model:** 50x50**Finishes:** GS; HDG**Characteristics of the trunking:**

- Metallic system
- Impact resistance: 5J
- Minimum storage temperature of -45 °C
- Minimum installation temperature of -25 °C
- Maximum temperature of 120 °C
- Non-flame propagating component
- System with electrical continuity characteristic
- Without electrical insulating characteristic
- Level of protection:
  - Non-perforated ER 50x50 + ER 50 cover: IP34
  - Perforated ER 50x50 + ER 50 cover: IP23
- Interior and exterior medium level protection against corrosive substances
- With access cover which can be opened without the need of tools
- Possibility of additional partition wall for internal protection.

**INSTRUCTIONS FOR USE**

- For the assembly of the tray, a "U" shape union joint is used. In order to fix the joint, four B1 bolts are needed.
- The cover can be fixed by applying pressure.
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the closed cable trays keeping a minimum distance of 250 mm between each tray.
- Closed cable trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**Accessories:**

This family has the following accessories: Horizontal bend, vertical inside, vertical outside, coupler.



**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:  
**BASORTRAY ENERGY ERE**  
Declares that the product:  
**BASORTRAY ENERGY ERE**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.  
Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**  
**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)  
2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.  
Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**  
**Is suitable and safe for the intended use and is in conformity with the following standard:**  
UNE EN 61537

**Información adicional:**  
**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE: **2009**  
Year of affixing of the CE marking:

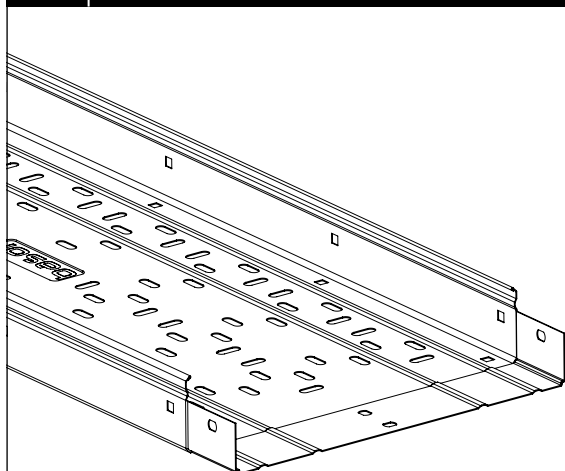
Lugar y Fecha:

Place and date:

Gandía Marzo 2009  
Gandía March 2009

Departamento Técnico

## ERE

**Models (BxH):**

100x35; 150x35; 200x35; 300x35; 100x60; 150x60; 200x60; 300x60; 400x60; 500x60; 600x60; 100x80; 150x80; 200x80; 300x80; 400x80; 500x80; 600x80; 100x100; 150x100; 200x100; 300x100; 400x100; 500x100; 600x100.

**Finishes:** GS; HDG**Characteristics of the cable tray:**

- Metallic
- Non-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion
  - GS coating: Class 3
  - HDG coating: Class 5
- Impact resistance: 20J

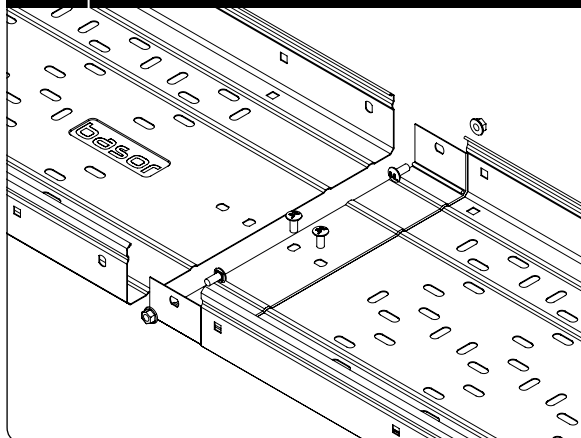
- Classification according to the free base area:

Non-perforated tray: A

Perforated tray:

| Base Models | Classification |
|-------------|----------------|
| 100         | C              |
| 150         | B              |
| 200         | C              |
| 300         | C              |
| 400         | C              |
| 500         | C              |
| 600         | C              |

## INSTRUCTIONS FOR USE

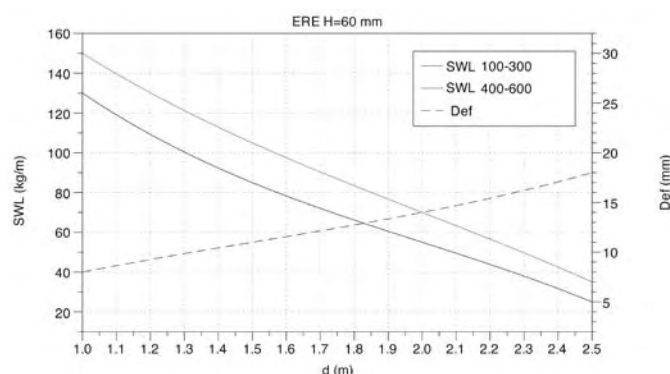
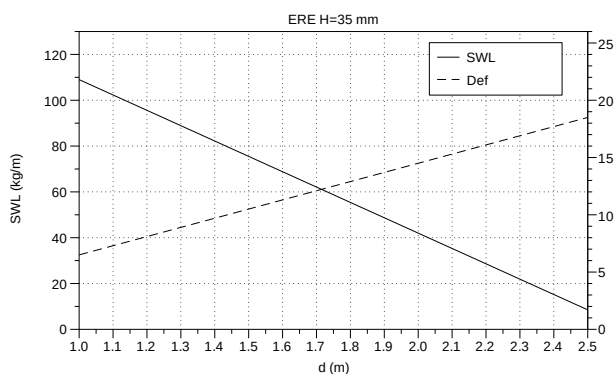


- For the set-up of the self-assembly system, four B1 sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

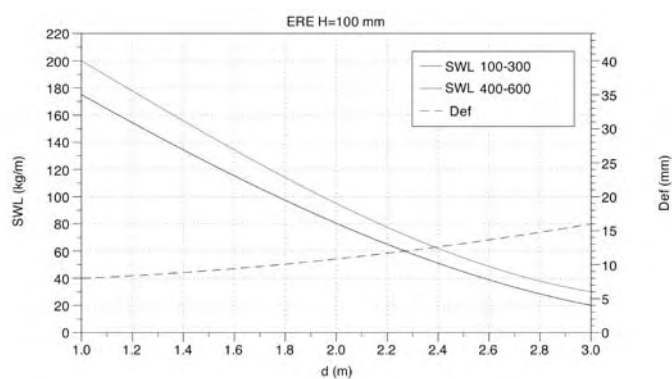
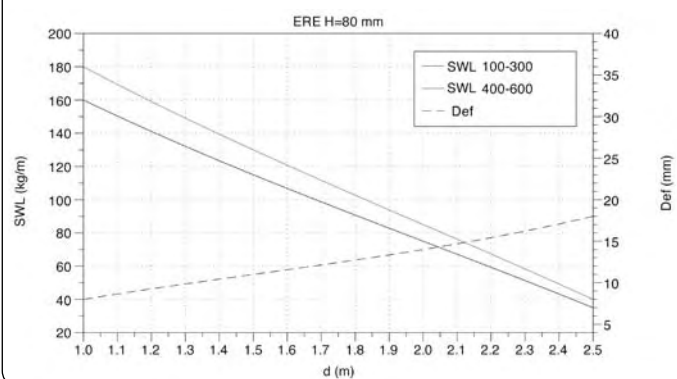
**Accessories:**

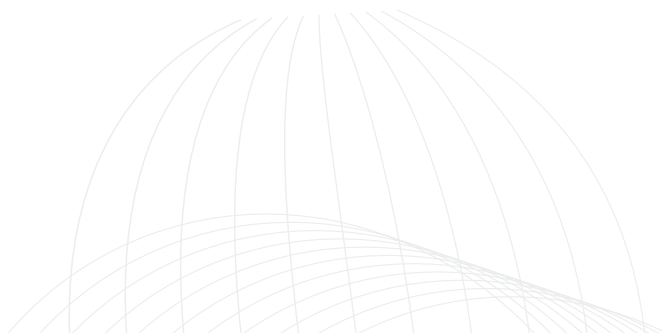
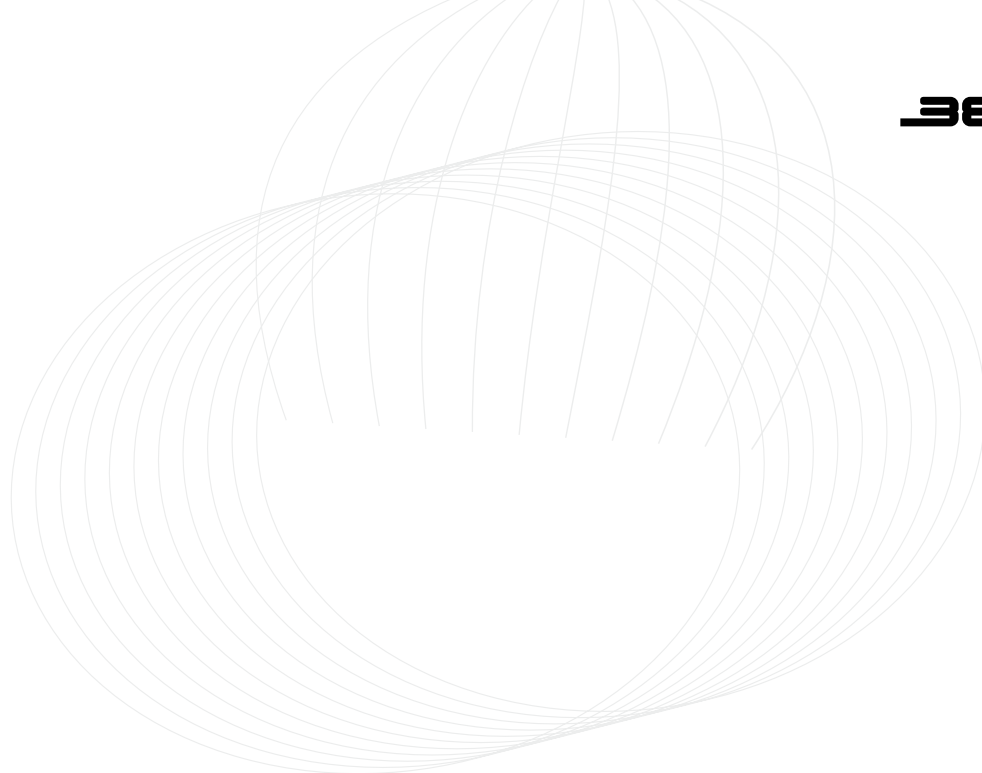
This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, T intersection, AS intersection, joint plate, adjustable joint and angle joint.

## SAVE WORKING LOAD



## SAVE WORKING LOAD





DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:  
**BASORTRAY ENERGY ERE CON TAPA ERE**  
Declares that the product:  
**BASORTRAY ENERGY ERE WITH COVER ERE**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.  
Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**  
**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)  
2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.  
Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**  
**Is suitable and safe for the intended use and is in conformity with the following standard:**  
UNE EN 61537

**Información adicional:**  
**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:  
Year of affixing of the CE marking:

2009

Lugar y Fecha:

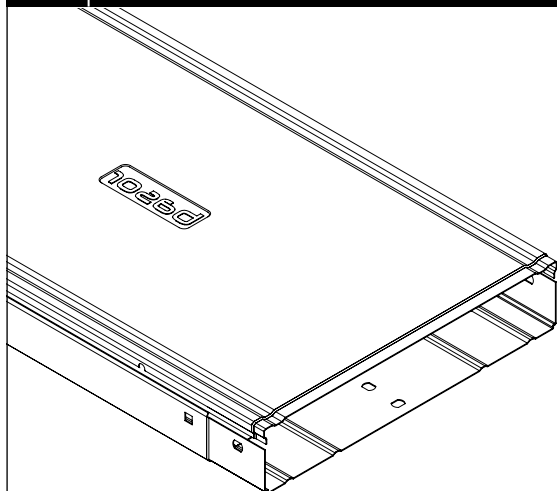
Place and date:

Gandía Marzo 2009  
Gandía March 2009

Departamento Técnico



## ERE+COVER

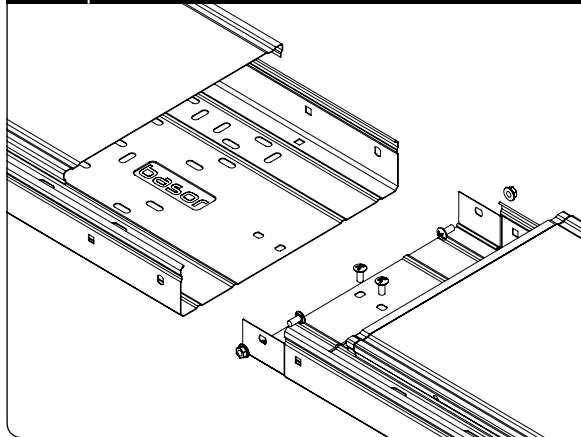
**Models (BxH):**

100x35; 150x35; 200x35; 300x35; 100x60; 150x60; 200x60; 300x60; 400x60; 500x60; 600x60; 100x80; 150x80; 200x80; 300x80; 400x80; 500x80; 600x80; 100x100; 150x100; 200x100; 300x100; 400x100; 500x100; 600x100.

**Finishes:** GS; HDG**Characteristics of the trunking:**

- Metallic system
- Impact resistance: 20J
- Minimum storage temperature of -45 °C
- Minimum installation temperature of -25 °C
- Maximum temperature of 120 °C
- Non-flame propagating component
- System with electrical continuity characteristic
- Without electrical insulating characteristic
- Level of protection:
  - Non-perforated ER + ER cover: IP44
  - Perforated ER + ER cover: IP23
- With medium protection outside and inside against corrosive substances
- With access cover which can be opened without the need of tools
- Possibility of additional internal protective partition.

## INSTRUCTIONS FOR USE



- For the set-up of the self-assembly system, four B1 sets are needed.
- The cover can be fixed by applying pressure.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**Accessories:**

This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, T intersection, AS intersection, reduction, joint plate.

DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRAY ENERGY FRE**

Declares that the product:

**BASORTRAY ENERGY FRE**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

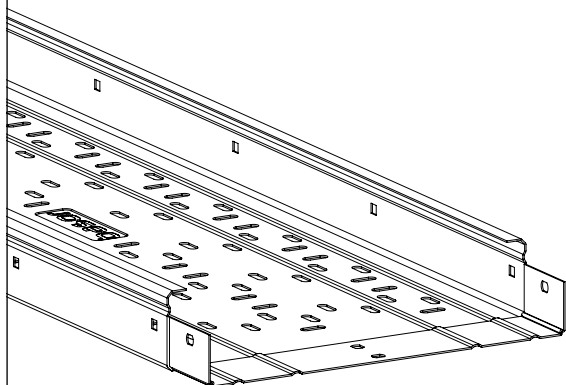
Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

**FRE**



**Models (BxH):**

100x35; 150x35; 200x35; 300x35; 100x60; 150x60; 200x60; 300x60; 400x60; 500x60; 600x60; 100x80; 150x80; 200x80; 300x80; 400x80; 500x80; 600x80; 150x100; 200x100; 300x100; 400x100; 500x100; 600x100.

**Finishes: GS; HDG**

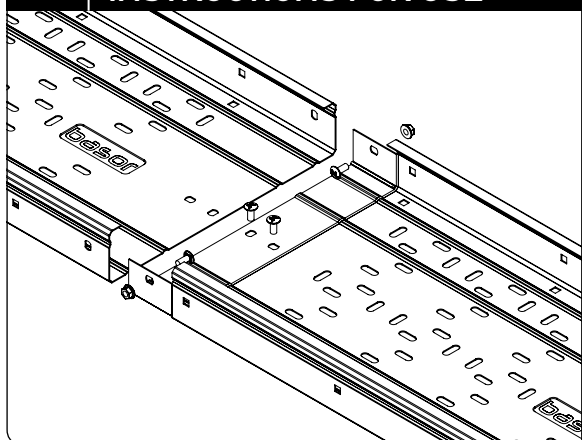
**Characteristics of the cable tray:**

- Metallic
- Non-flame propagating
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion
  - GS coating: Class 3
  - HDG coating: Class 5
- Impact resistance: 20J

- Classification according to the free base area:

| Model | Classification |
|-------|----------------|
| 100   | C              |
| 150   | B              |
| 200   | C              |
| 300   | C              |
| 400   | C              |
| 500   | C              |
| 600   | C              |

**INSTRUCTIONS FOR USE**



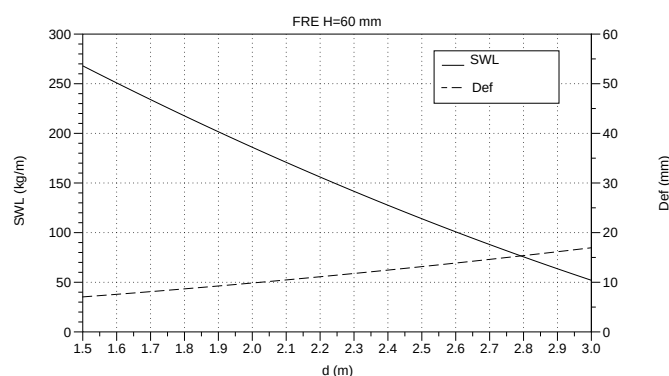
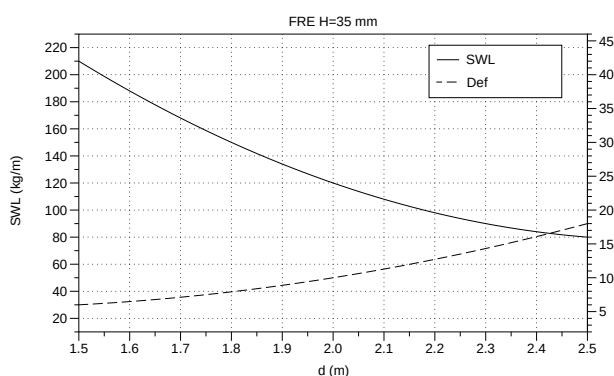
- For the set-up of the self-assembly system, four B1 sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.

Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

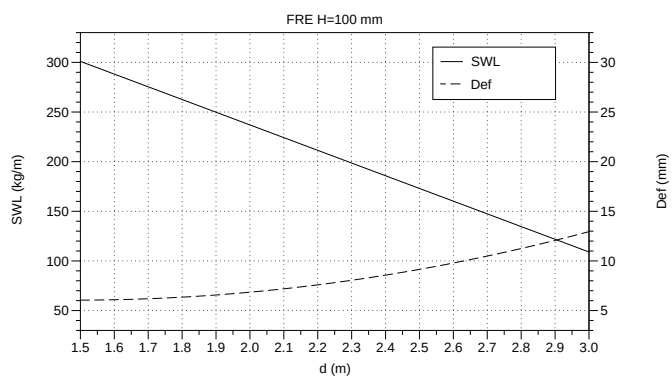
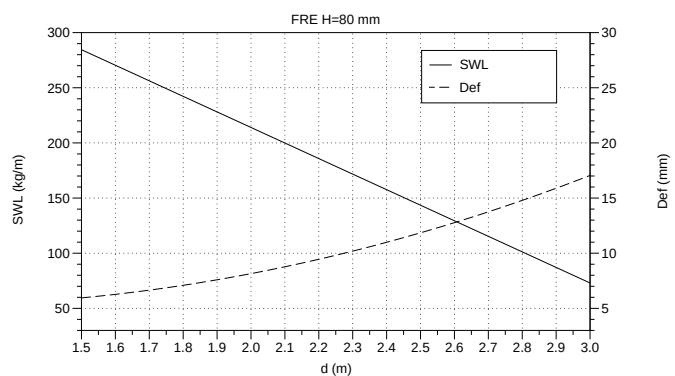
**Accessories:**

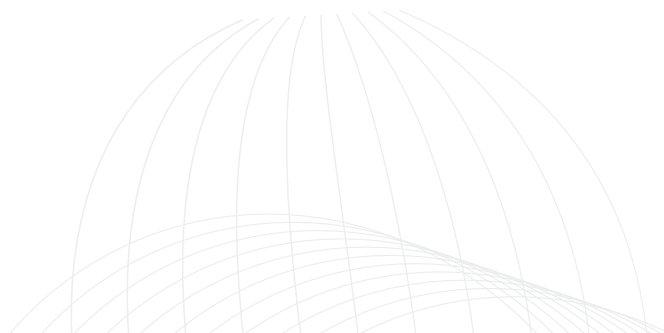
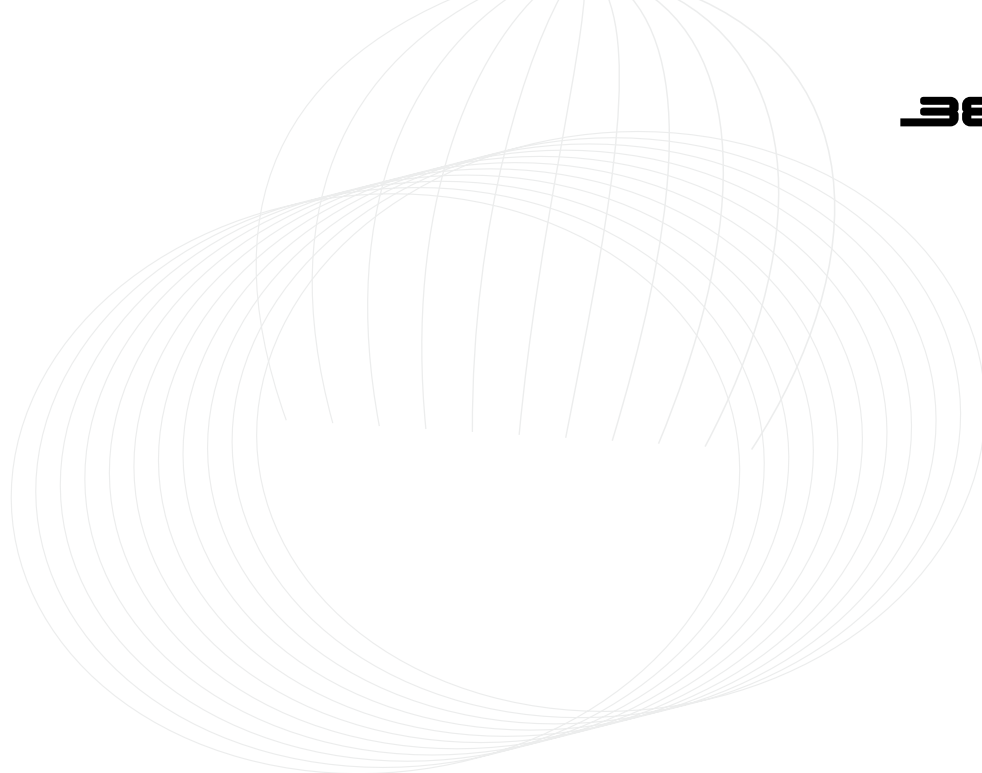
This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, T intersection, AS intersection, reduction, joint plate, ajustable joint and angle joint.

**SAVE WORKING LOAD**



## SAVE WORKING LOAD







DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRAY ENERGY FRE CON TAPA**

Declares that the product:

**BASORTRAY ENERGY FRE WITH COVER**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

Place and date:

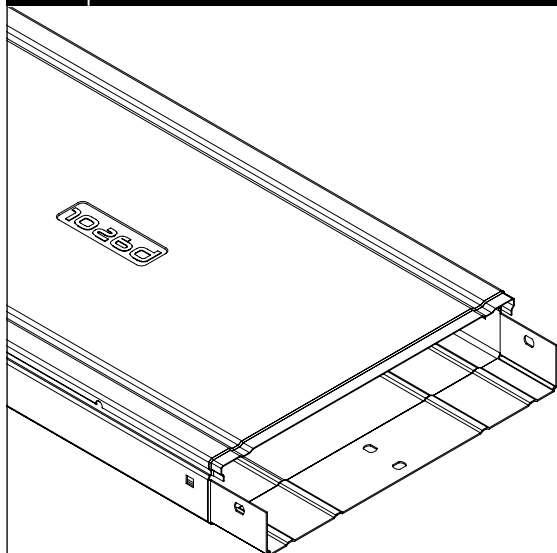
Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



## FRE+COVER

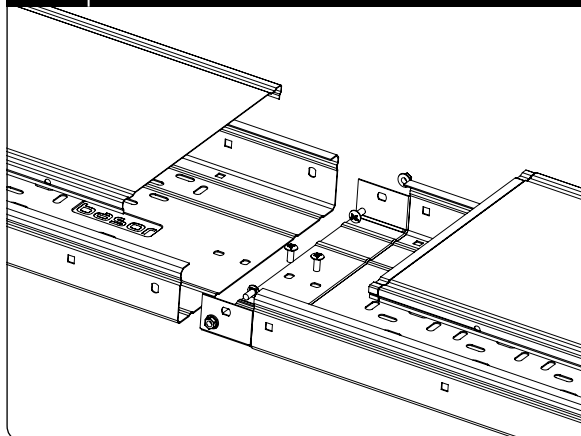
**Models (BxH):**

100x35; 150x35; 200x35; 300x35; 100x60; 150x60; 200x60; 300x60; 400x60;  
500x60; 600x60; 100x80; 150x80; 200x80; 300x80; 400x80; 500x80; 600x80;  
150x100; 200x100; 300x100; 400x100; 500x100; 600x100.

**Finishes:** GS; HDG**Characteristics of the trunking:**

- Metallic system
- Impact resistance: 20J
- Minimum storage temperature of -45 °C
- Minimum installation temperature of -25 °C
- Maximum temperature of 120 °C
- Non-flame propagating component
- System with electrical continuity characteristic
- Without electrical insulating characteristic
- Level of protection:
  - Non-perforated FRE + ERE/FRE cover: IP44
  - Perforated FRE + ERE/FRE cover: IP23
- With medium protection outside and inside for GS; With high protection outside and inside for HDG.
- With access cover which can be opened without the need of tools
- Possibility of additional internal protective partition.

## INSTRUCTIONS FOR USE



- For the set-up of the self-assembly system, four B1 sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**Accessories:**

This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, T intersection, AS intersection, reduction, joint plate.

**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRAY BS**

Declares that the product:

**BASORTRAY BS**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

**2009**

Lugar y Fecha:

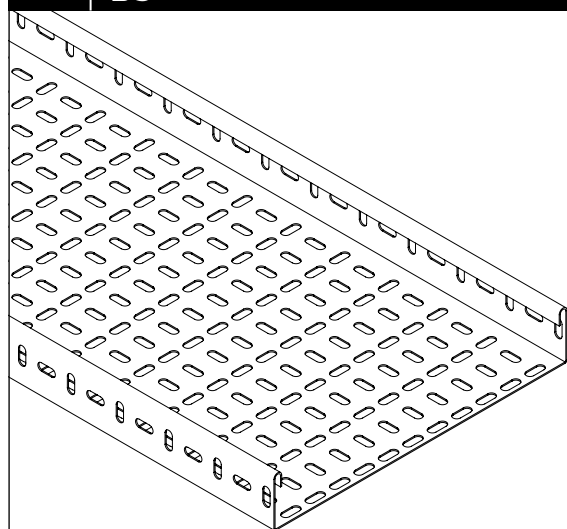
Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

## BS



### Models (BxH):

75x50; 100x50; 150x50; 225x50; 300x50; 450x50; 600x50.

### Finishes: GS; HDG

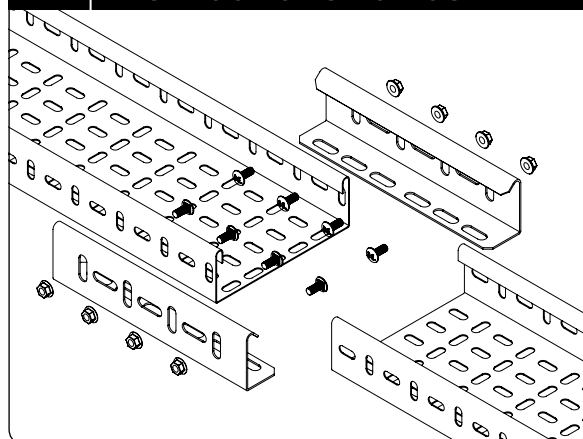
### Characteristics of the cable tray:

- Metallic
- Non-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion
  - GS coating: Class 3
  - HDG coating: Class 5
- Impact resistance: 20J

- Classification according to the free base area:

| Base Models | Classification |
|-------------|----------------|
| 75          | B              |
| 100         | C              |
| 150         | C              |
| 225         | C              |
| 300         | C              |
| 450         | C              |
| 600         | C              |

## INSTRUCTIONS FOR USE

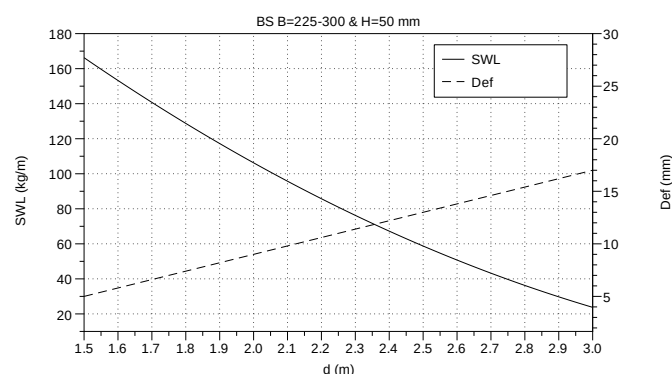
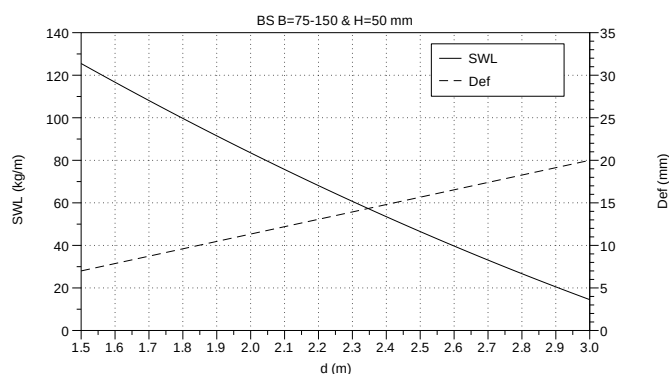


- For the assembly of the trays, two union joints with four B1 sets are needed for each tray.
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

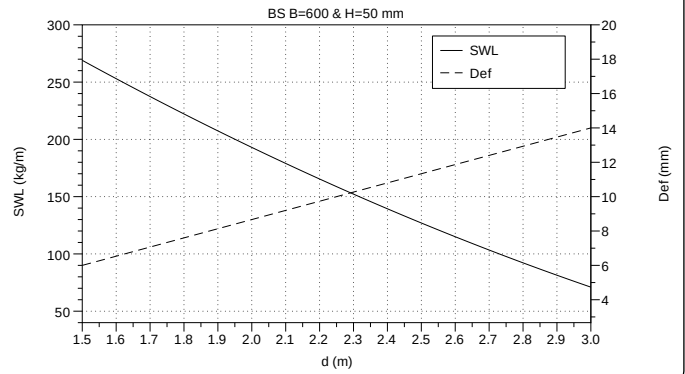
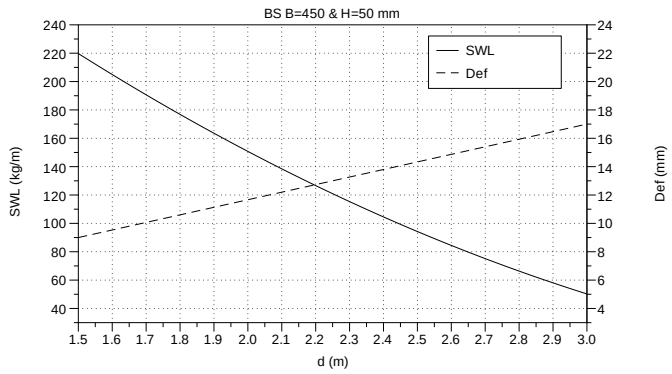
### Accessories:

This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, T intersection, AS intersection, reduction, inside joint plate, outside joint.

## SAVE WORKING LOAD



## SAVE WORKING LOAD







**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRAY U**

Declares that the product:

**BASORTRAY U**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

**2009**

Year of affixing of the CE marking:

Lugar y Fecha:

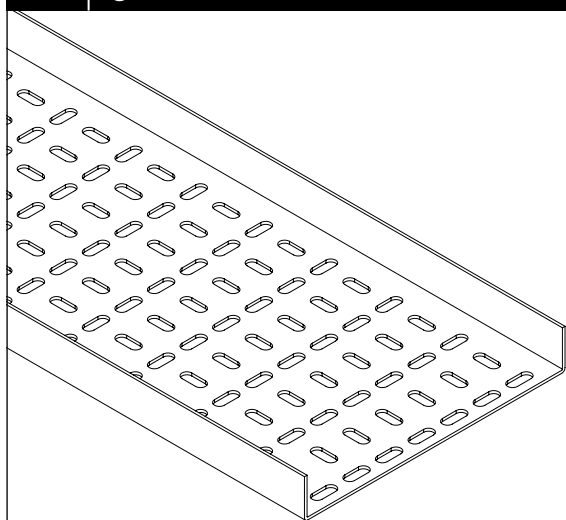
Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

**U**



**Models (BxH):**

50x15; 100x15; 150x15; 200x15; 300x15; 50x30; 100x30; 150x30; 200x30; 300x30; 50x50; 100x50; 150x50; 200x50; 300x50; 400x50; 500x50; 600x50.

**Finishes: HDG**

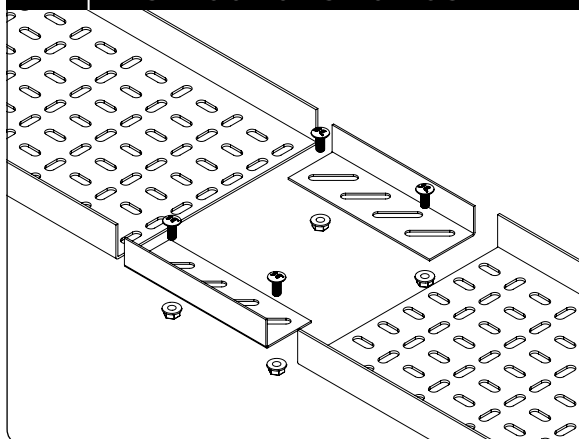
**Characteristics of the cable tray:**

- Metallic
- Non-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion  
HDG coating: Class 6
- Impact resistance: 20J

- Classification according to the free base area:

| Base Models | Classification |
|-------------|----------------|
| 50          | B              |
| 100         | C              |
| 150         | C              |
| 200         | C              |
| 300         | C              |
| 400         | C              |
| 600         | C              |

**INSTRUCTIONS FOR USE**

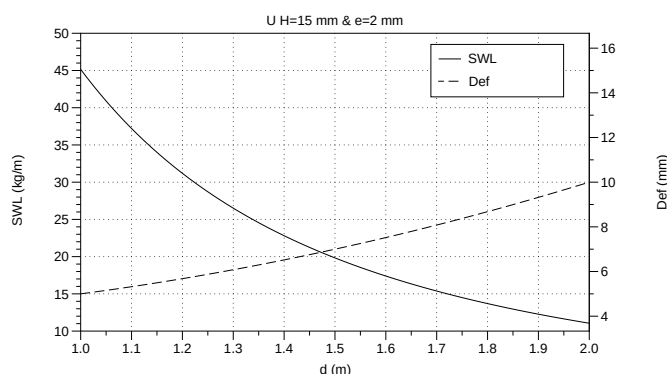


- For the assembly of the trays, two union joints with two B1 sets are needed for each tray.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

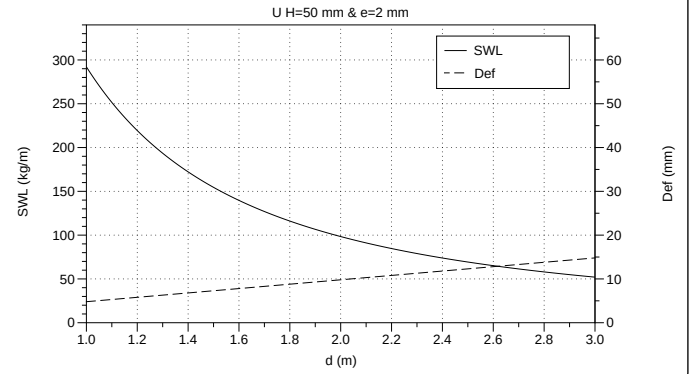
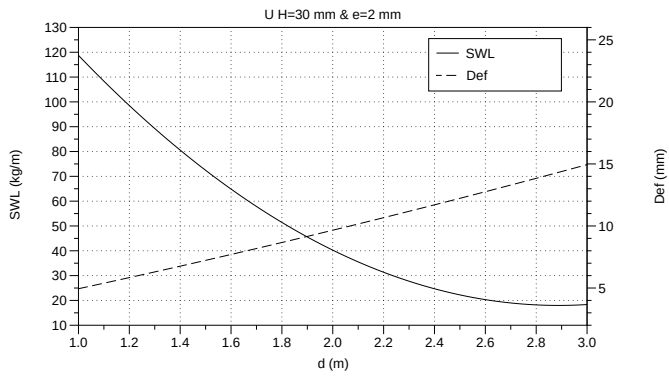
**Accessories:**

This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, T intersection, JUE joint.

**SAVE WORKING LOAD**



## SAVE WORKING LOAD







DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRAY OMEGA**

Declares that the product:

**BASORTRAY OMEGA**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

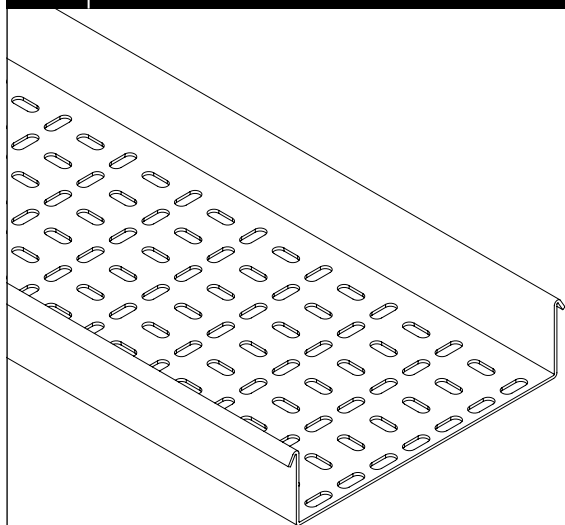
Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

## OMEGA



### Models (BxH):

50x20; 100x20; 150x20; 200x20; 300x20; 50x30; 100x30; 150x30; 200x30; 300x30; 50x50; 100x50; 150x50; 200x50; 300x50; 400x50; 500x50; 600x50.

### Finishes: HDG

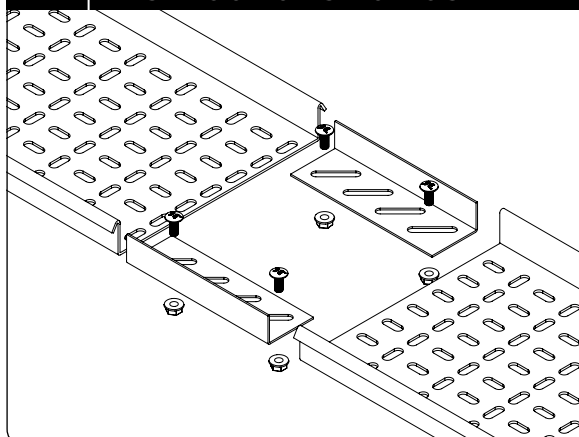
### Characteristics of the cable tray:

- Metallic
- Non-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion  
HDG coating: Class 6
- Impact resistance: 20J

- Classification according to the free base area:

| Model | Classification |
|-------|----------------|
| 50    | B              |
| 100   | C              |
| 150   | C              |
| 200   | C              |
| 300   | C              |
| 400   | C              |
| 600   | C              |

## INSTRUCTIONS FOR USE

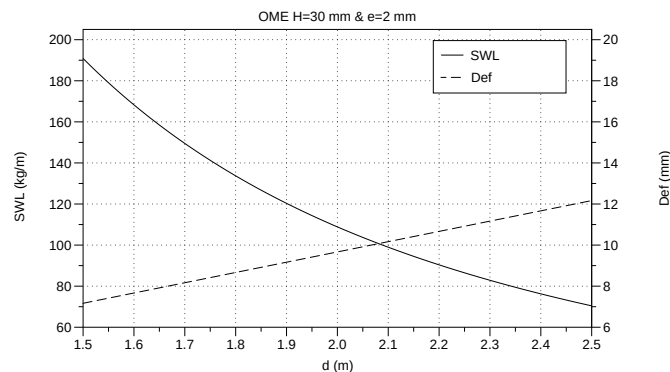
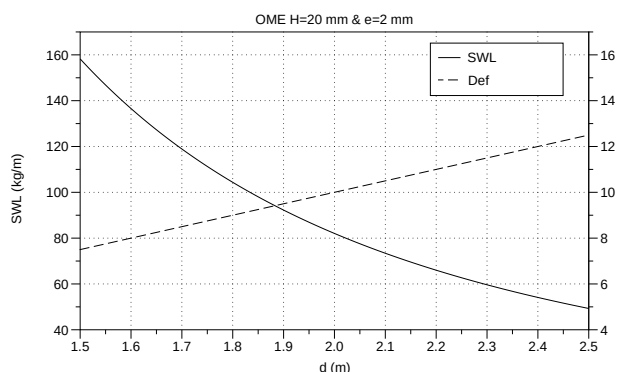


- For the assembly of the trays, two union joints with two B1 sets are needed for each tray.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

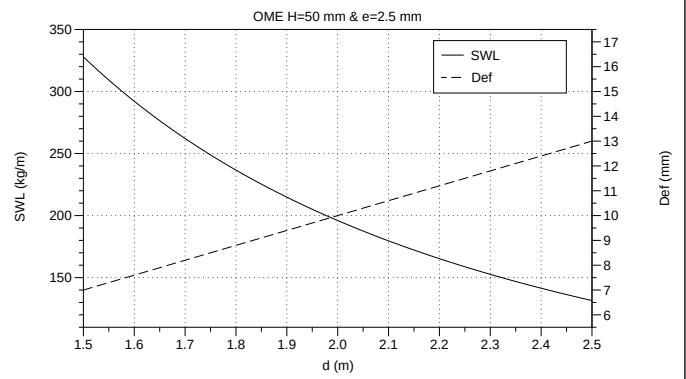
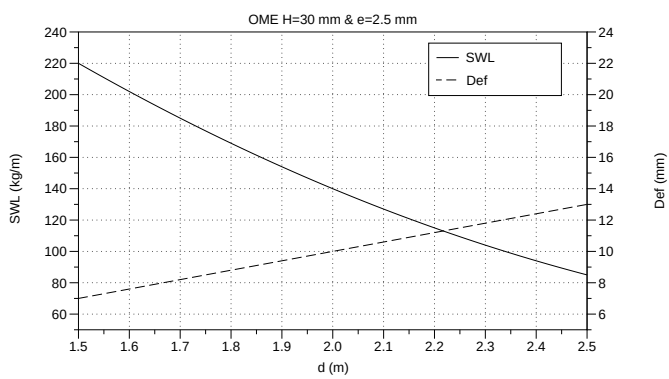
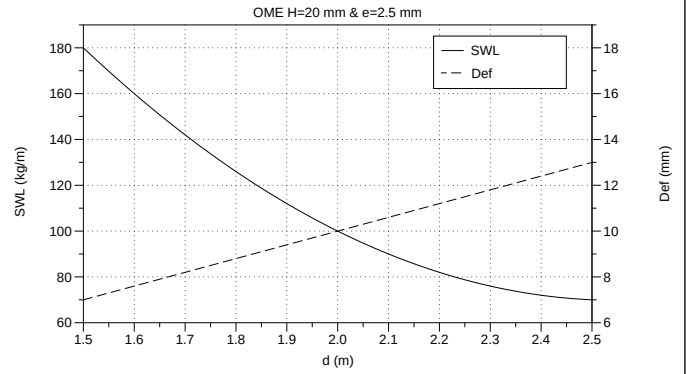
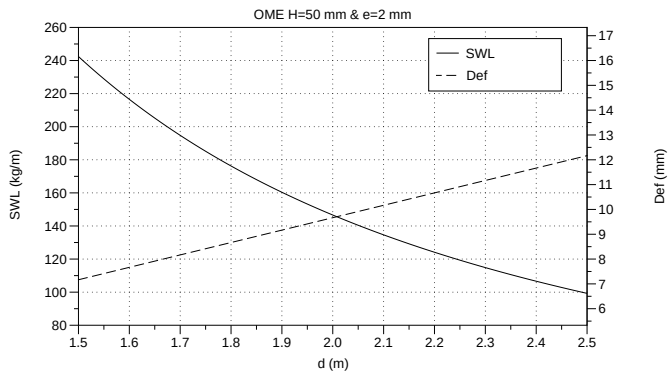
### Accessories:

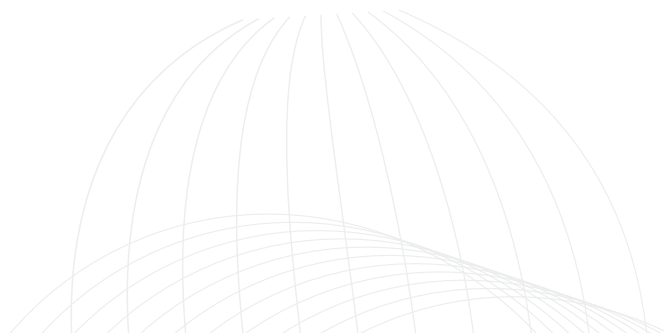
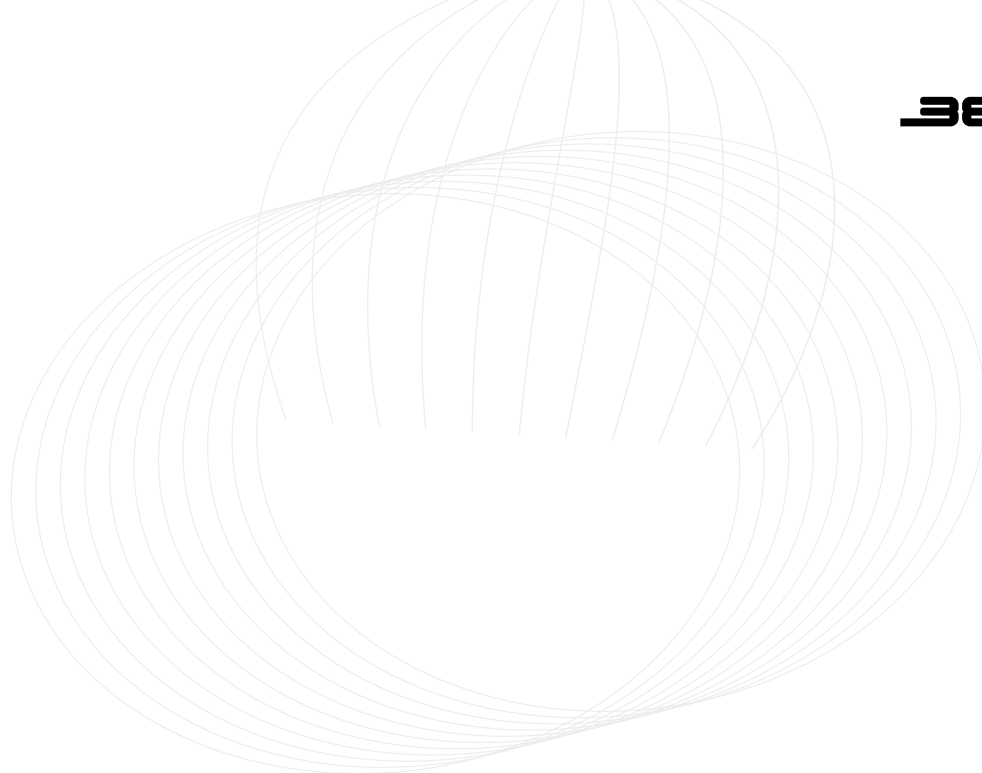
This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, T intersection, JUE joint.

## SAVE WORKING LOAD



## SAVE WORKING LOAD





DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORFIL BFR**

Declares that the product:

**BASORFIL BFR**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

2009

Year of affixing of the CE marking:

Lugar y Fecha:

Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORFIL BF**

Declares that the product:

**BASORFIL BF**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

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This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

**2009**

Lugar y Fecha:

Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

## BF/BFR

### Models (BxH):

100x35; 150x35; 200x35; 300x35; 60x65; 100x65; 150x65; 200x65; 300x65; 400x65; 500x65; 600x65; 200x105; 300x105; 400x105; 500x105; 600x105.

### Finishes: Cincado; HDG

### Characteristics of the cable tray:

- Metallic
- Non-flame propagating component
- System with electrical continuity characteristic
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

Cincado coating: Class 2

HDG coating: Class 6

- Classification according to the free base area:

| Base Models | Classification |
|-------------|----------------|
| 60          | Z              |
| 100         | Y              |
| 150         | Y              |
| 200         | Y              |
| 300         | Y              |
| 400         | Y              |
| 500         | Y              |
| 600         | Y              |

## INSTRUCTIONS FOR USE

- Trays with heights of 65 and 105 are assembled using a quick union joint on each side and do not require bolts.
- Ensemble bolts BF can also be used.
- From width 300 onwards, an ensemble bolt BF is added and placed on the centre of the base.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

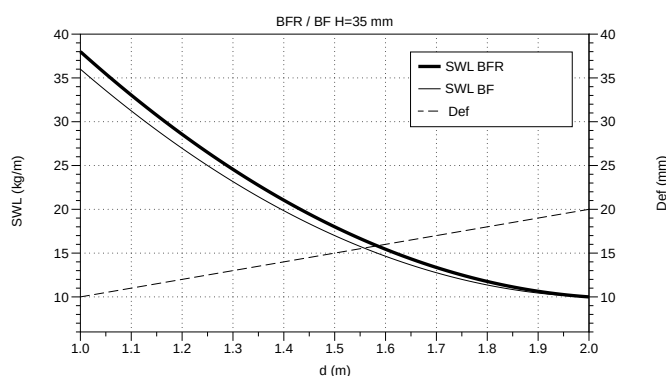
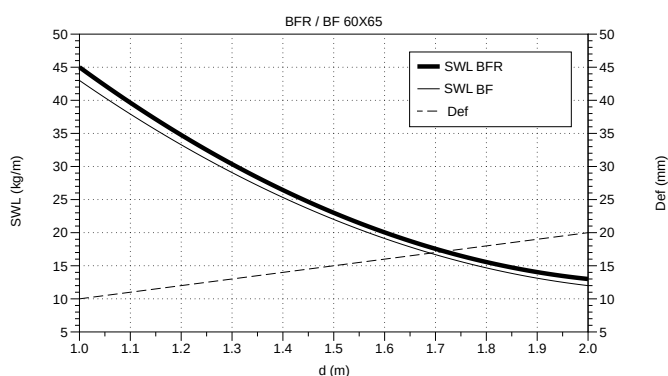
### Accessories:

This family has the following accessories: Cover, divider, drop-out plate.

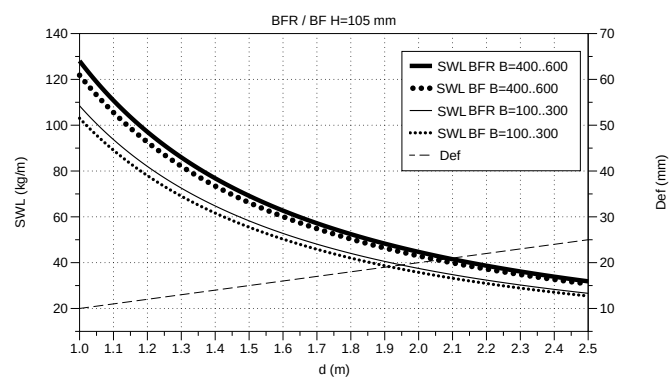
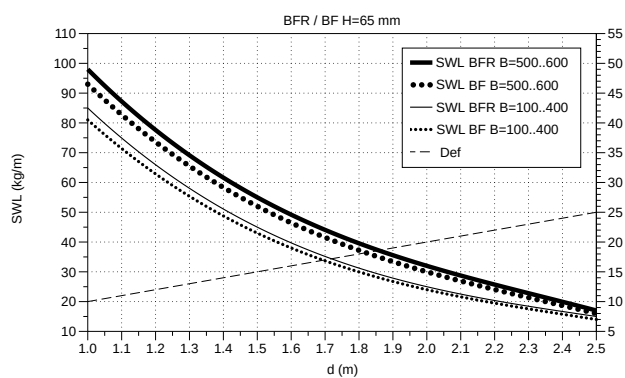
Union elements: Quick joint, set bolt-staple, lateral joint, set bolt BF-nut and multi-union joint.

Fixation elements: SSC, double SL, simple SL, universal support box, mini universal support box.

## SAVE WORKING LOAD



## SAVE WORKING LOAD



DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRAV FE**

Declares that the product:

**BASORTRAV FE**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

2009

Year of affixing of the CE marking:

Lugar y Fecha:

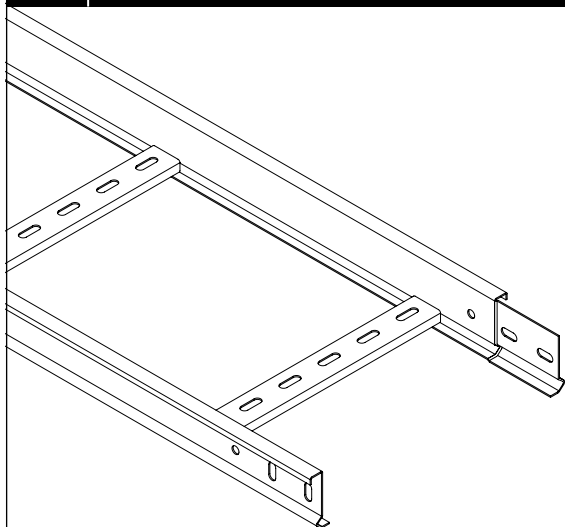
Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

## FE H60

**Models (BxH):**

100x60; 150x60; 200x60; 300x60; 400x60; 500x60; 600x60.

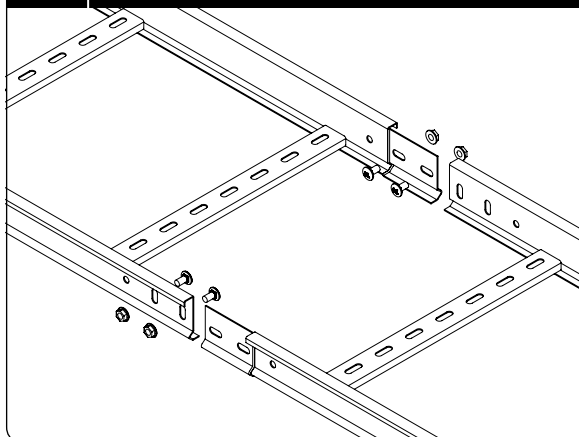
**Finishes:** HDG**Characteristics of the cable tray:**

- Metallic
- Non-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion  
HDG coating: Class 6
- Impact resistance: 20J

- Classification according to the free base area:

| Base Models | Classification |
|-------------|----------------|
| 100         | X              |
| 150         | X              |
| 200         | Y              |
| 300         | Y              |
| 400         | Y              |
| 500         | Y              |
| 600         | Y              |

## INSTRUCTIONS FOR USE



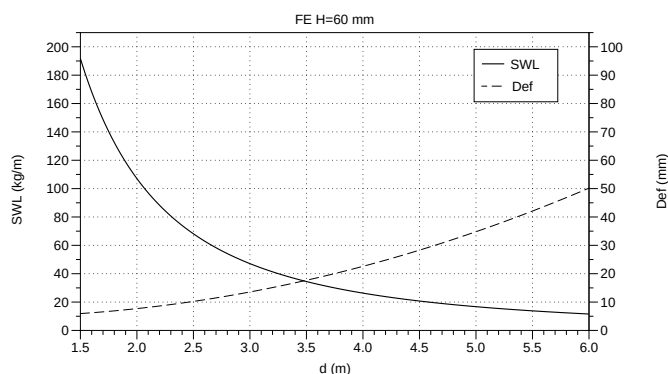
- For the set-up of the self-assembly system, four B2 sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**Accessories:**

This family has large array of accessories: Cover, divider, horizontal bend, articulated vertical inside-outside, T intersection, cross intersection, reduction, FE clamp, H60 joint plate, articulated union joint, angle joint.

The minimum radius for the accessories is of 100 mm.

## SAVE WORKING LOAD







## FE H75/100/120/150

## Models (BxH):

100x75; 150x75; 200x75; 300x75; 400x75; 500x75; 600x75; 100x100; 150x100; 200x100; 300x100; 400x100; 500x100; 600x100; 150x120; 200x120; 300x120; 400x120; 500x120; 600x120; 150x150; 200x150; 300x150; 400x150; 500x150; 600x150.

## Finishes: HDG

## Characteristics of the cable tray:

- Metallic
- Non-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finish; resistance to corrosion  
HDG coating: Class 6
- Impact resistance: 20J

- Classification according to the free base area:

| Base Models | Classification |
|-------------|----------------|
| 100         | X              |
| 150         | X              |
| 200         | Y              |
| 300         | Y              |
| 400         | Y              |
| 500         | Y              |
| 600         | Y              |

Note: Classification X for models 200 and 300 with rung spacing 250mm. No change for the rest of the models.

## INSTRUCTIONS FOR USE

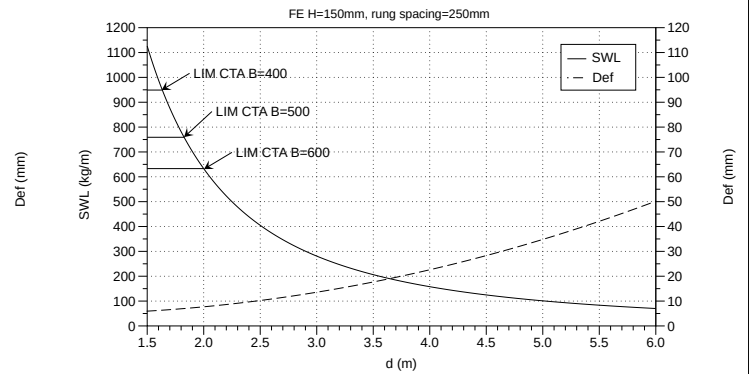
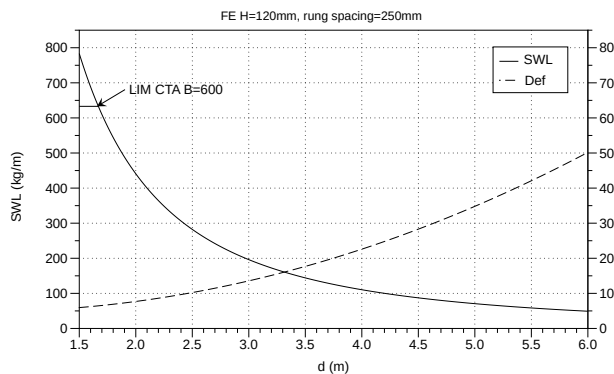
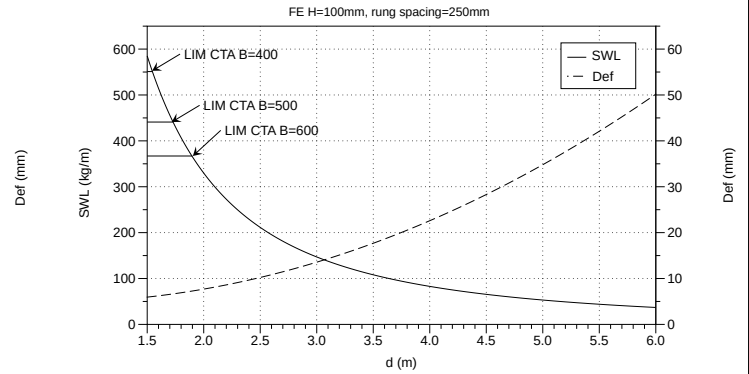
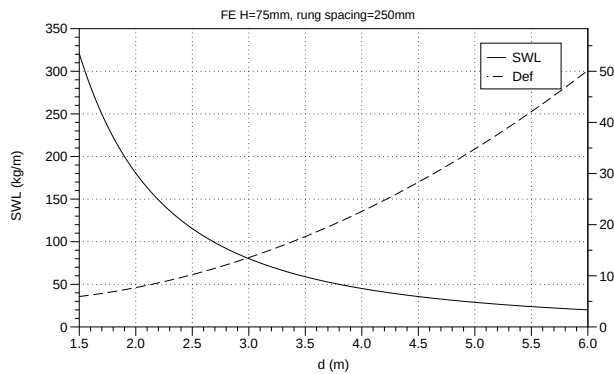
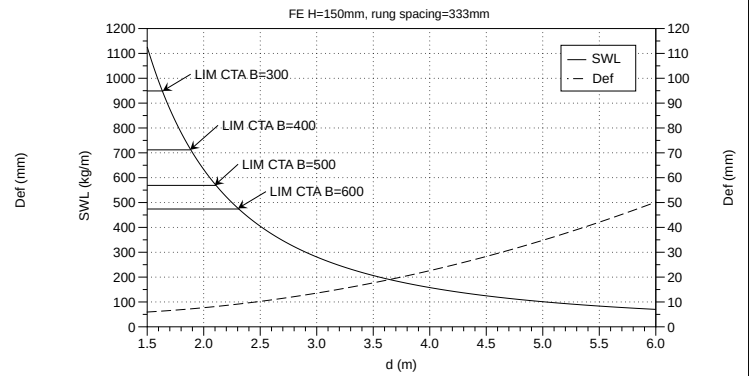
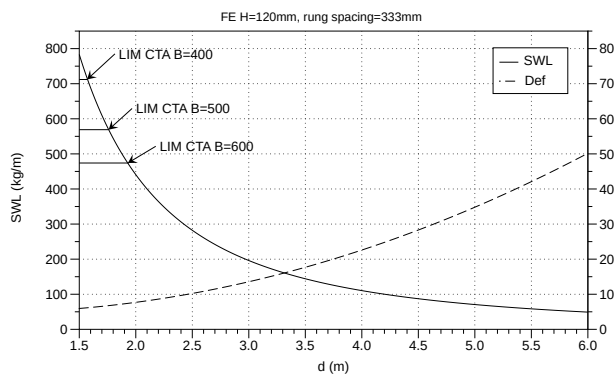
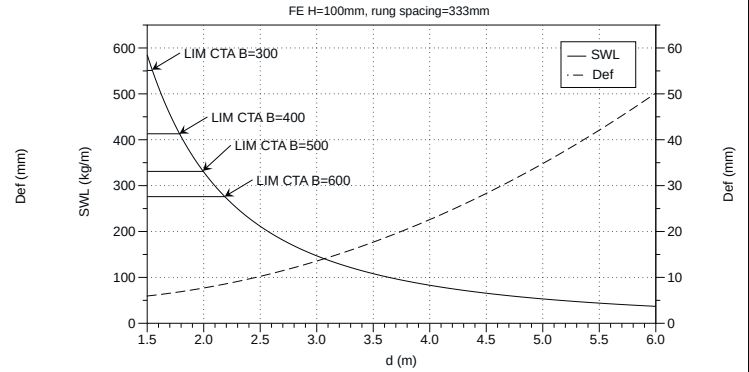
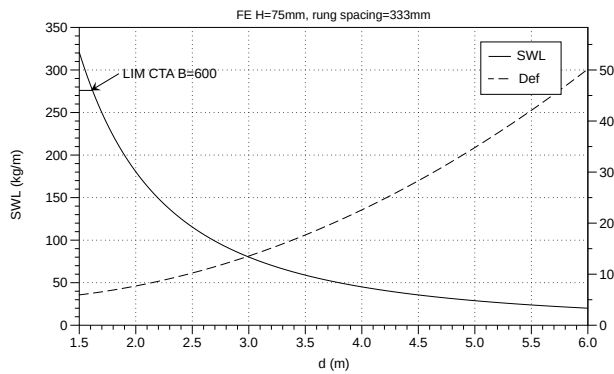
- For the set-up of the self-assembly system, four B2 bolt sets are needed (eight sets in the case of H150).
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

## Accessories:

This family has large array of accessories: Cover, ERE divider, horizontal bend, vertical inside, vertical outside, T intersection, cross intersection, reduction, FE clamp, joint plate, articulated joint and angle joint.

The minimum radius for the accessories is of 330 mm.

## SAVE WORKING LOAD



DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRAV BSL**

Declares that the product:

**BASORTRAV BSL**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CEE (Directiva de Baja Tensión)

2006/95/CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

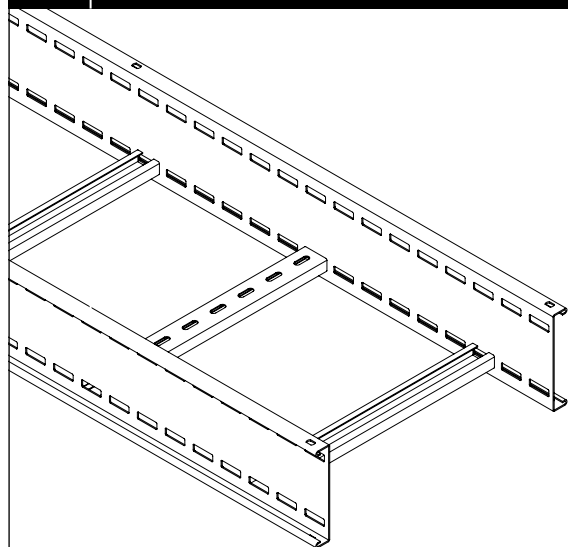
Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

## BSL



### Models (BxH):

300x150; 400x150; 600x150; 300x200; 400x200; 600x200.

### Finishes: HDG

### Characteristics of the cable tray:

- Metallic
- Non-flame propagating component
- System with electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

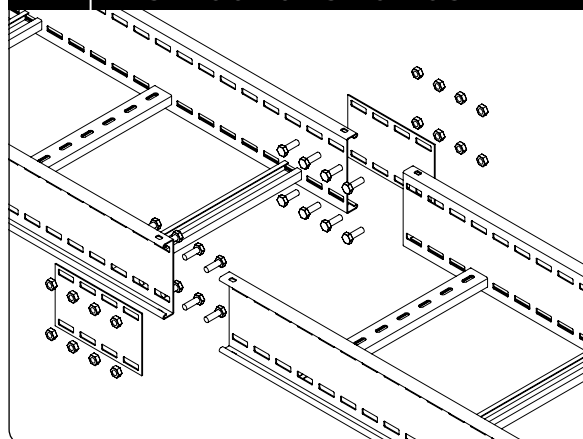
HDG coating: Class 6

- Impact resistance: 20J

- Classification according to the free base area:

| Base Models | Classification |
|-------------|----------------|
| 300         | Y              |
| 400         | Y              |
| 600         | Y              |

## INSTRUCTIONS FOR USE



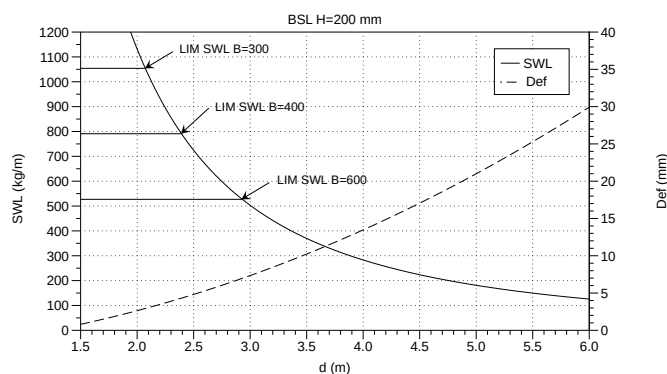
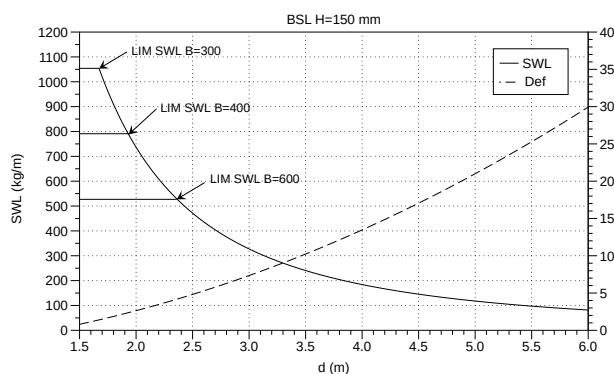
- For the assembly, two union joints with eight M10x30 DIN933 sets each are needed.
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

### Accessories:

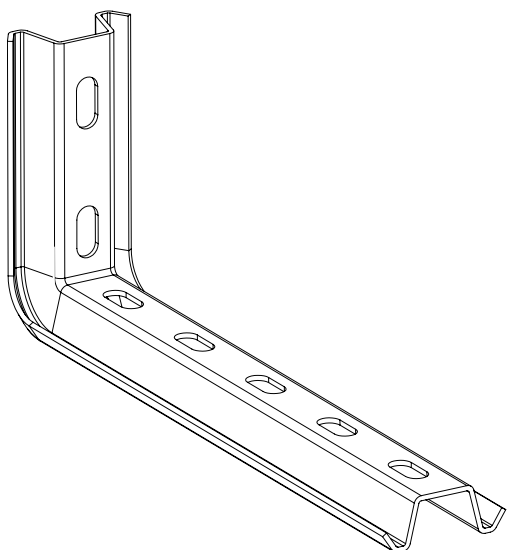
This family has large array of accessories: Horizontal bend, vertical inside, vertical outside, T intersection, cross intersection, joint plate, articulated joint, angle joint.

The minimum radius for the accessories is of 330 mm.

## SAVE WORKING LOAD



## SHO HORIZONTAL SUPPORT



### Models (B):

100; 150; 200; 300;400.

### Finishes: GS; HDG

### Characteristics:

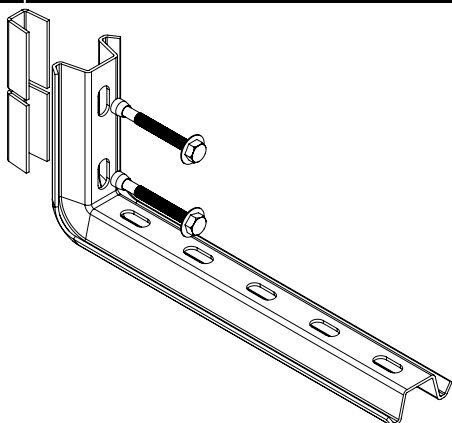
- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

GS coating: Class 3

HDG coating: Class 6

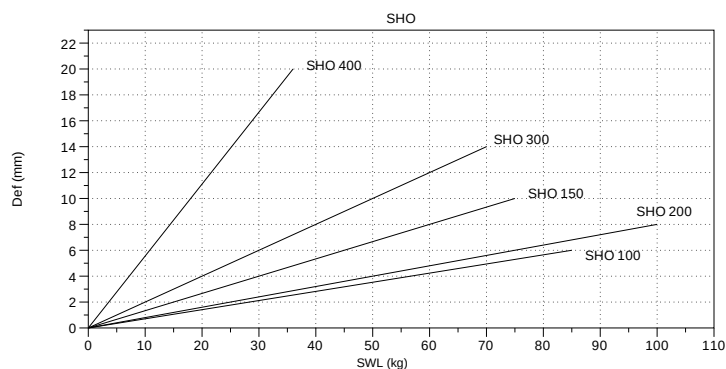
- Impact resistance: 20J

## INSTRUCTIONS FOR USE

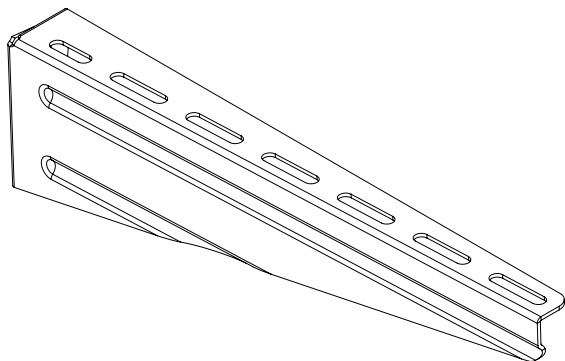


- For the assembly of the support, two anchorages are needed, and the SHO Supporting Piece is used to reinforce the fixation on the wall.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.
- They are used as horizontal supports for ERE, BF and BFR trays.

## SAVE WORKING LOAD





**SCR** HORIZONTAL SUPPORT**Models (B):**

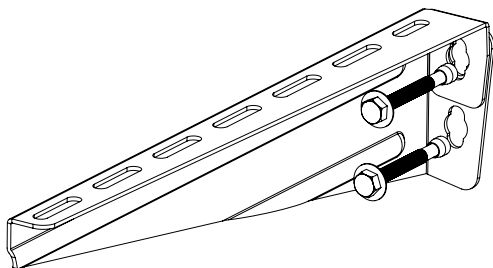
50; 100; 150; 200; 300; 400; 500; 600; 750.

**Finishes:** GS; HDG**Characteristics:**

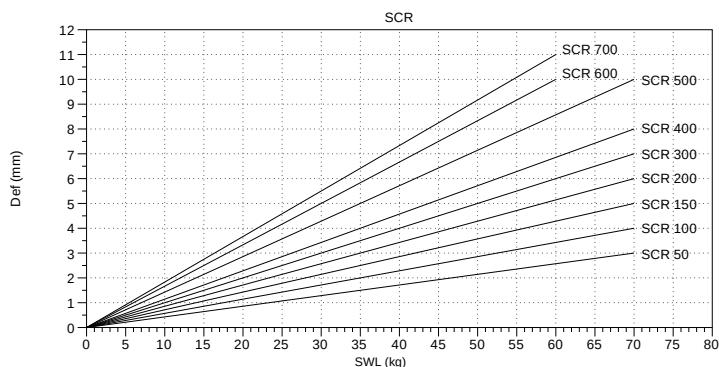
- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

GS coating: Class 3

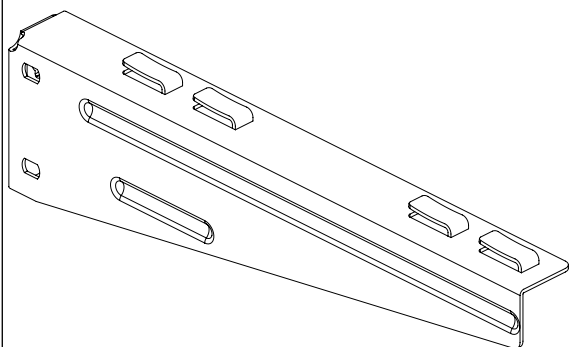
HDG coating: Class 6

**INSTRUCTIONS FOR USE**

- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**SAVE WORKING LOAD**

## SRB HORIZONTAL SUPPORT



### Models (B):

100; 150; 200; 300; 400; 500; 600.

### Finishes: GS; HDG

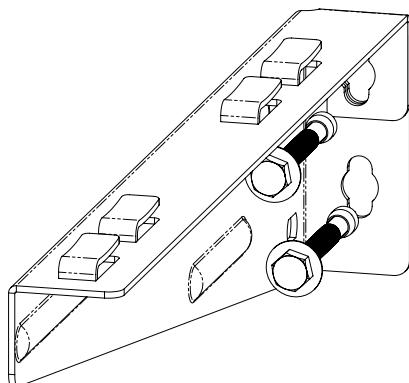
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

GS coating: Class 3

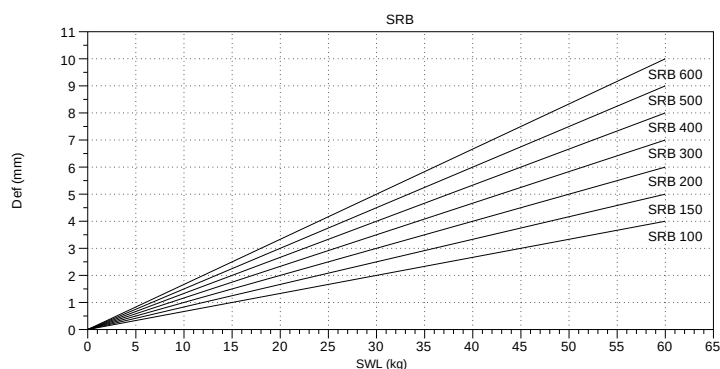
HDG coating: Class 6

## INSTRUCTIONS FOR USE

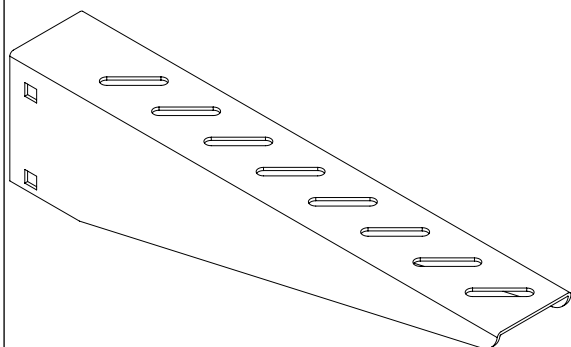


- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.
- They are used as horizontal supports for the fixation of the trays belonging to the BASORFIL family.

## SAVE WORKING LOAD



## SR HORIZONTAL SUPPORT



### Models (B):

300; 400; 500; 600.

### Finishes: GS; HDG

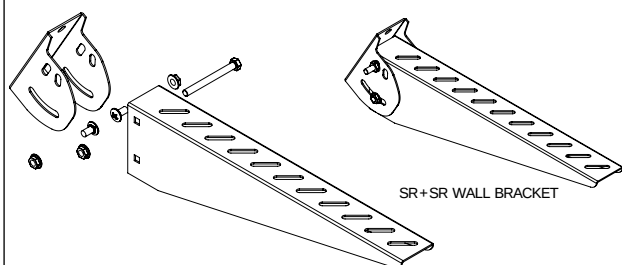
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

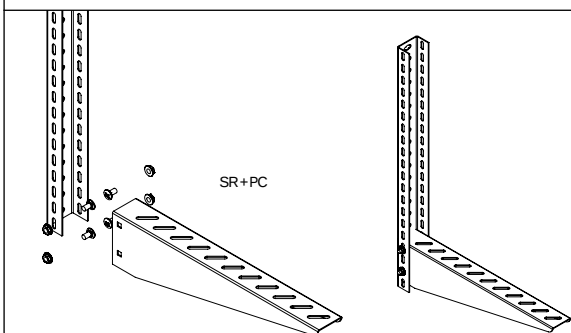
GS coating: Class 3

HDG coating: Class 6

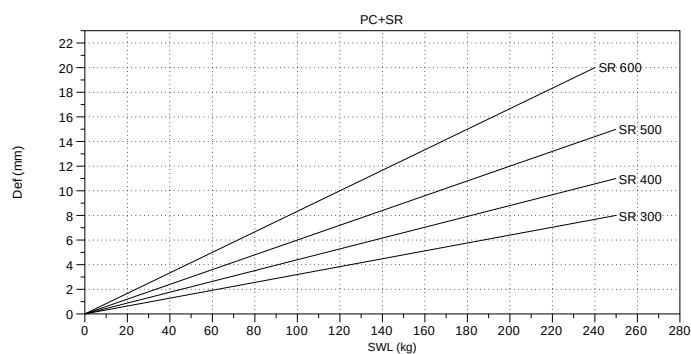
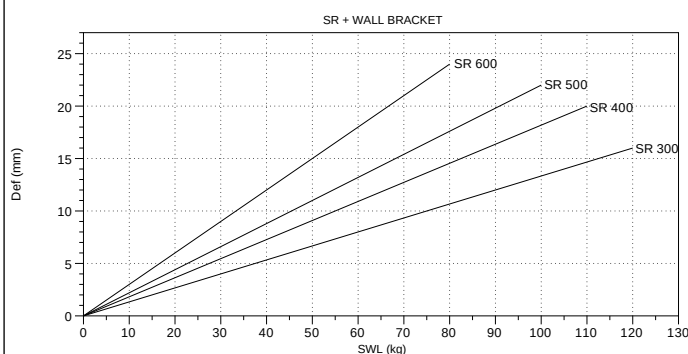
## INSTRUCTIONS FOR USE



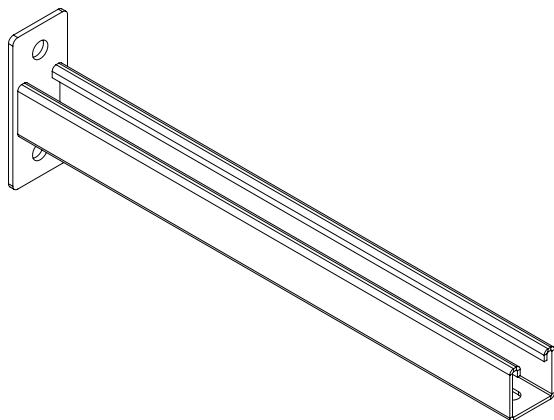
- For assemblies with an SR wall bracket, one SR pin and two B2 bolt sets are needed.
- For the assembly of the hanging profile, four B1 bolt sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.



## SAVE WORKING LOAD



## SPL HORIZONTAL SUPPORT



### Models (L):

150; 200; 300; 400; 500; 600.

### Finishes: GS; HDG

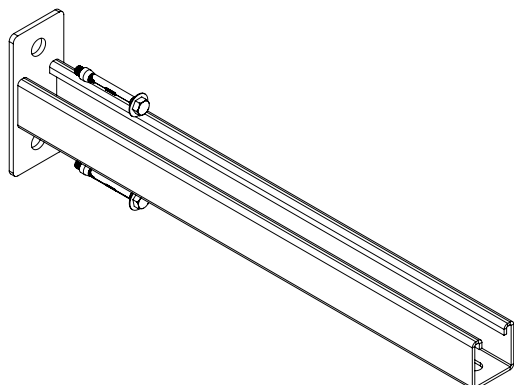
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

GS coating: Class 3

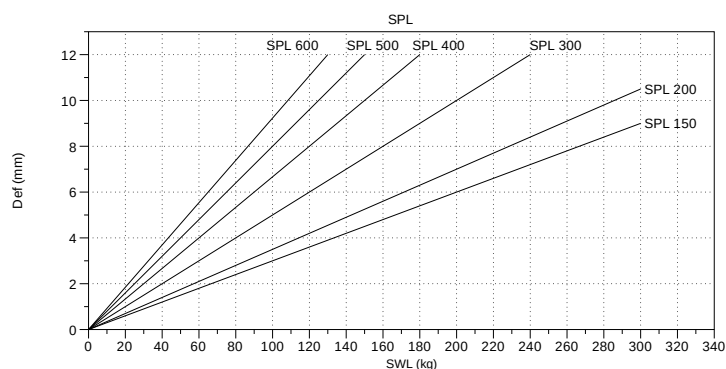
HDG coating: Class 6

## INSTRUCTIONS FOR USE

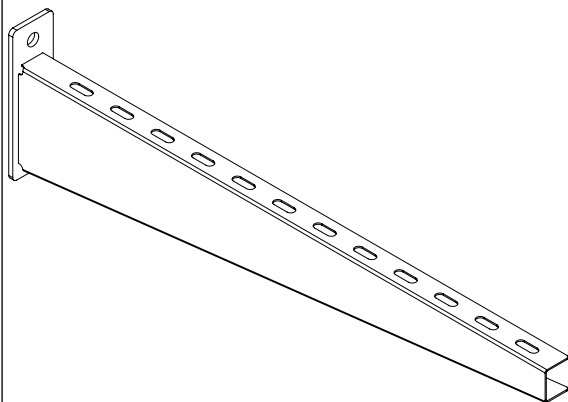


- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

## SAVE WORKING LOAD



## SHL HORIZONTAL SUPPORT



### Models (B):

100; 150; 200; 300; 400; 500; 600.

### Finishes: GS; HDG

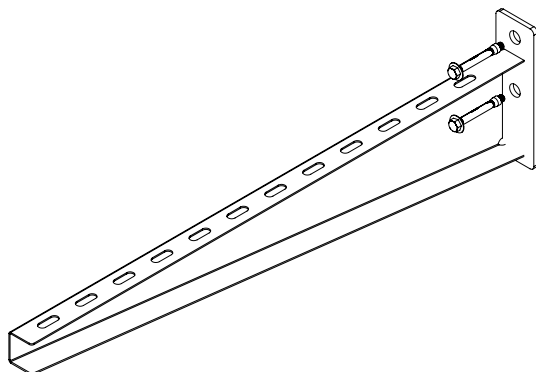
### Characteristics :

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

GS coating: Class 3

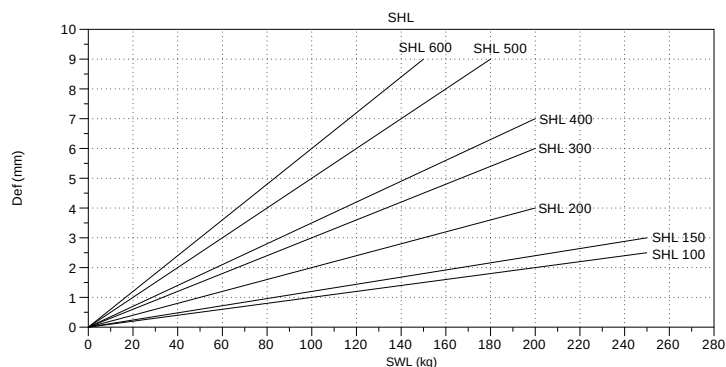
HDG coating: Class 6

## INSTRUCTIONS FOR USE



- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

## SAVE WORKING LOAD





**SP** HORIZONTAL SUPPORT

**Models (B):**

150; 200; 300; 400; 500; 600.

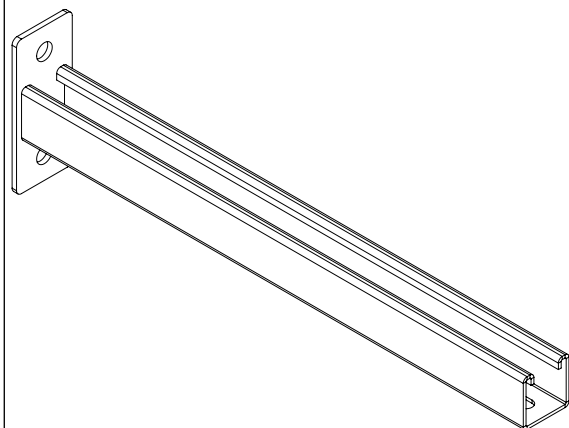
**Finishes:** GS; HDG

**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

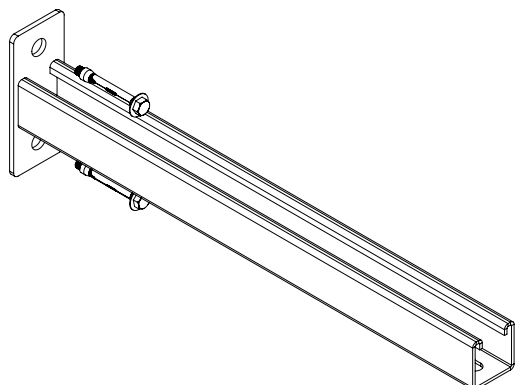
GS coating: Class 3

HDG coating: Class 6

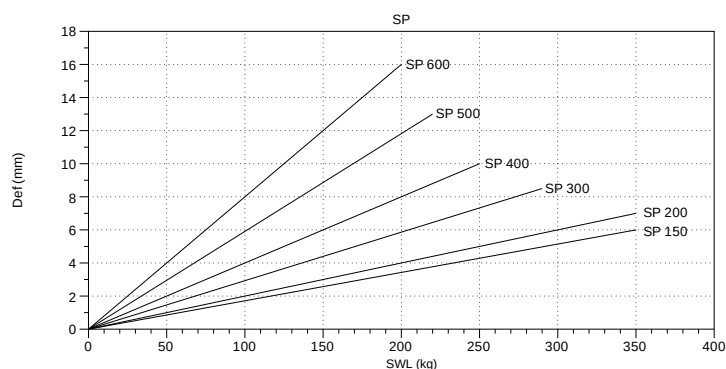


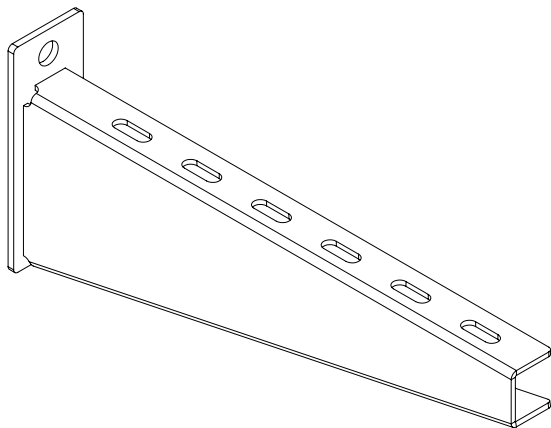
**INSTRUCTIONS FOR USE**

- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.
- The trays can be fixed to the open side using a spring nut or to the perforated side with the use of bolts.



**SAVE WORKING LOAD**



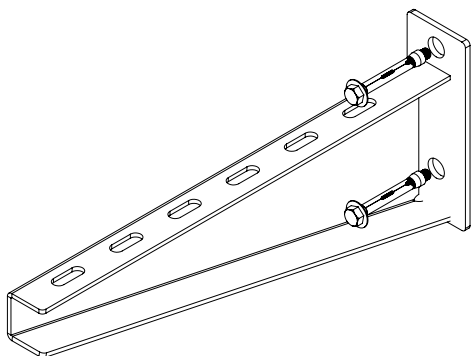
**SHR** HORIZONTAL SUPPORT
**Models (B):**

300; 400; 500; 600; 700; 800.

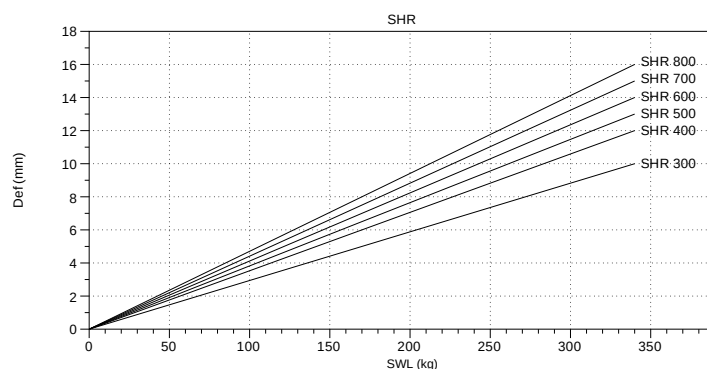
**Acabado:** HDG**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

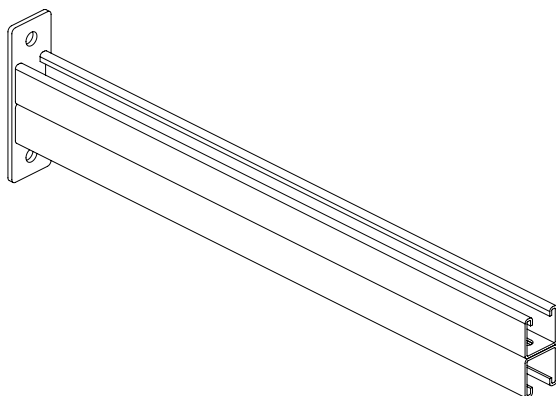
HDG coating: Class 6

**INSTRUCTIONS FOR USE**


- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**SAVE WORKING LOAD**


## SPD HORIZONTAL SUPPORT



### Models (B):

500; 600; 700; 800; 1000.

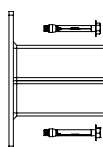
### Acabado: HDG

### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

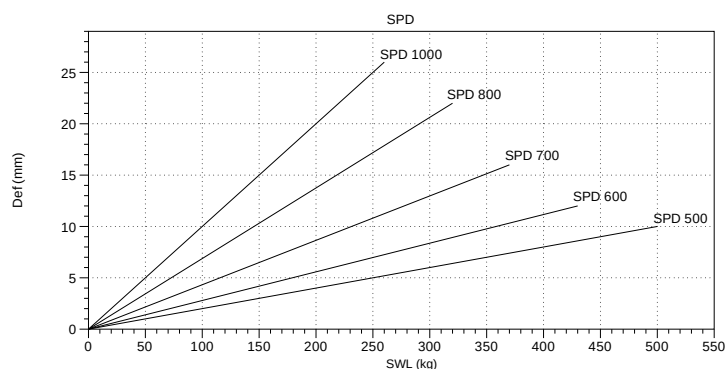
HDG coating: Class 6

## INSTRUCTIONS FOR USE

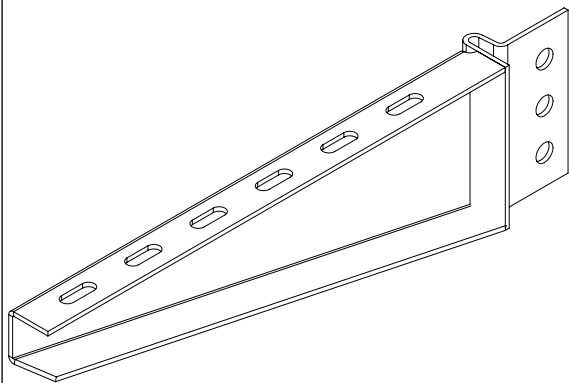


- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.
- The trays are fixed with spring nuts.

## SAVE WORKING LOAD



## SHV HORIZONTAL SUPPORT

**Models (B):**

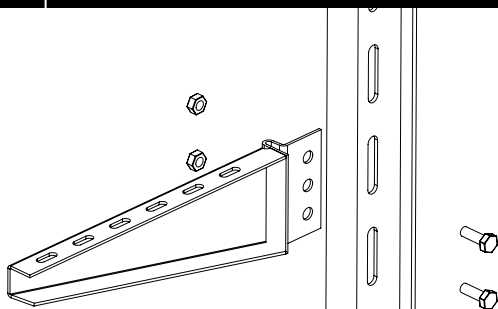
200; 300; 400; 500; 600; 700; 800.

**Acabado: HDG****Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

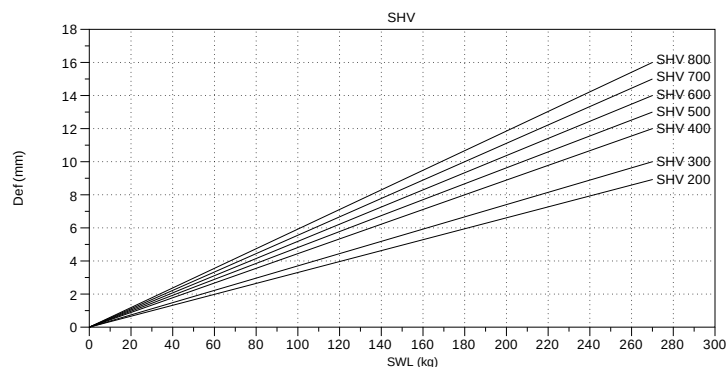
HDG coating: Class 6

## INSTRUCTIONS FOR USE

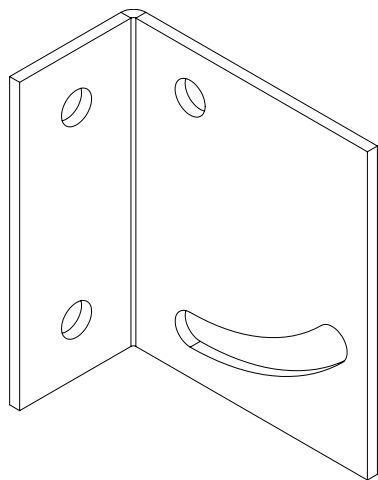


- For mounting the support on to the IPN80 profile, two M10x30 sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

## SAVE WORKING LOAD



## SIMPLE HEAD BRACKET



**Finishes:** GS; HDG

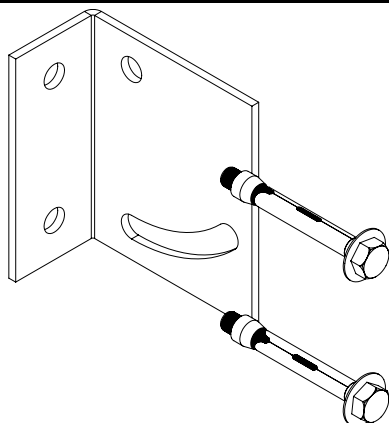
**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

GS coating: Class 3

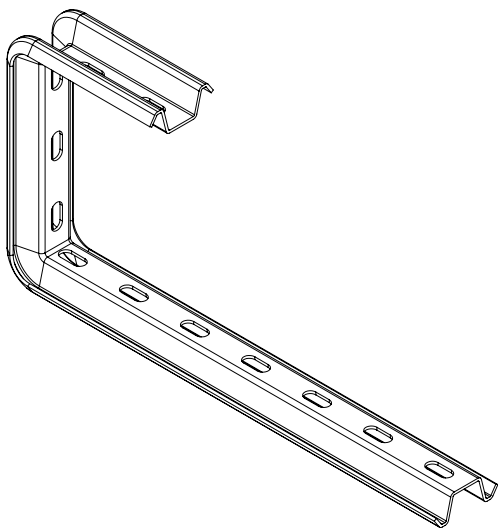
HDG coating: Class 6

## INSTRUCTIONS FOR USE



- For the assembly of the support, two wall anchorages are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.
- Used with SRB and SCR on 500, 600 and 700 models.

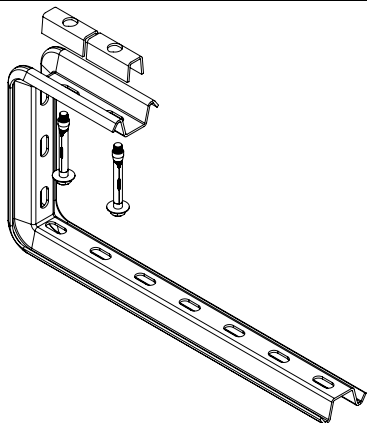


**SHOT** CEILING SUPPORT**Models (B):**

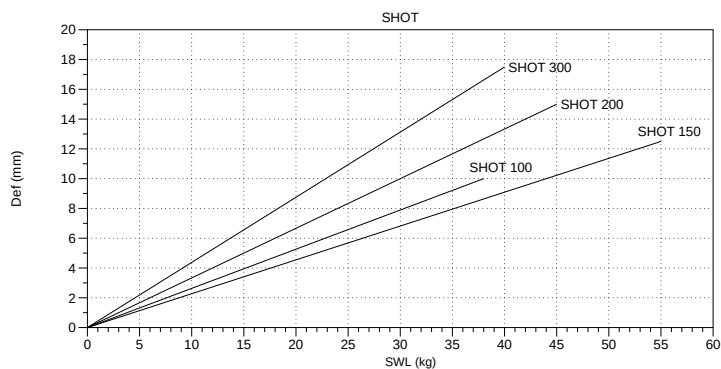
100; 150; 200; 300

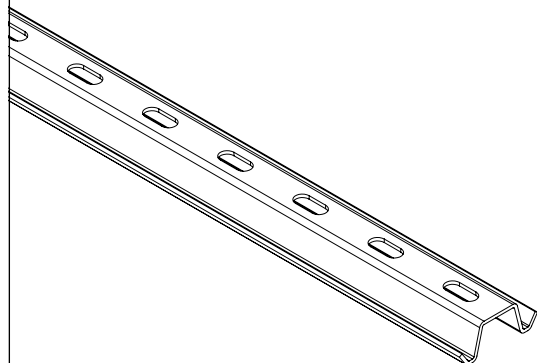
**Finishes:** GS; HDG**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- With a metallic finishes; resistance to corrosion
  - GS coating: Class 3
  - HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

**INSTRUCTIONS FOR USE**

- For mounting the support on to the ceiling, two anchorages are needed. For an optimal fixation, use one SHO supporting piece per anchorage.
- This support had been designed so that one sole component allows the assembly of the tray or closed cable tray on to the ceiling.
- The SHOT support has been designed to have the minimum free height which allows for the installation of the cables.

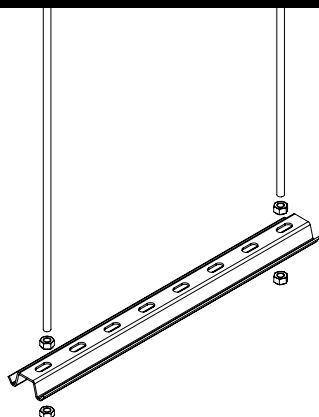
**SAVE WORKING LOAD**

**SVO** CEILING SUPPORT**Models (B):**

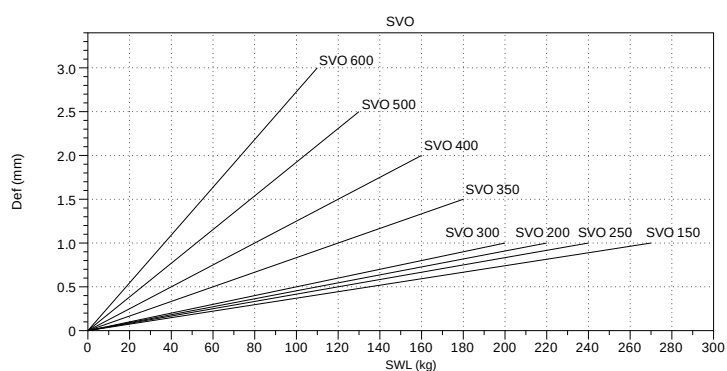
150; 200; 250; 300; 350; 400; 500; 600.

**Finishes:** GS; HDG**Characteristics:**

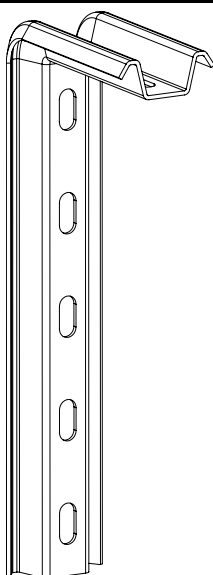
- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- With a metallic finishes; resistance to corrosion
  - GS coating: Class 3
  - HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

**INSTRUCTIONS FOR USE**

- For mounting the support on to the ceiling, two M8 THREADED RODS and four nuts are needed.
- The SVO support allows the alteration of the free height depending on the needs, by way of altering the length of the threaded rod.

**SAVE WORKING LOAD**

## SHO 400 CEILING SUPPORT



### Models (L):

400.

### Finishes: GS; HDG

### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

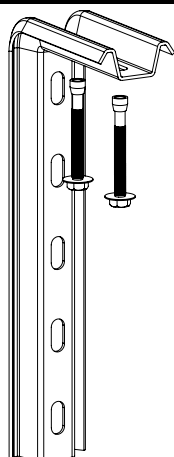
GS coating: Class 3

HDG coating: Class 6

### Related products:

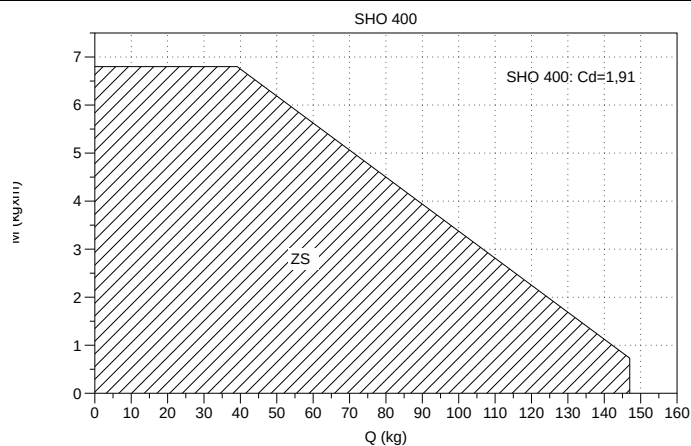
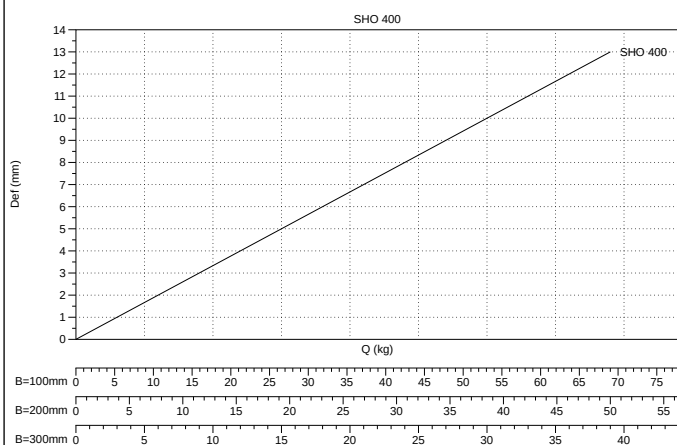
- SHO

## INSTRUCTIONS FOR USE



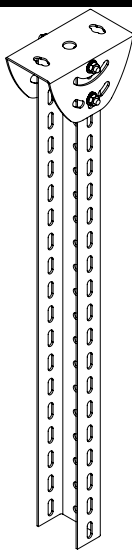
- For mounting the support on to the ceiling, two anchorages are needed. For an optimal fixation, use one SHO supporting piece per anchorage.
- It allows the fixation of an additional horizontal SHO with two B2 sets.

## SAVE WORKING LOAD



In order to determine the suitability of the SHO 400 support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$

## PC+HEAD BRACKET CEILING SUPPORT



### Models (L):

3000

**Finishes:** GS ; HDG; I304.

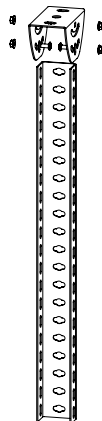
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- With a metallic finishes; resistance to corrosion
  - GS coating: Class 3
  - HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

### Related products:

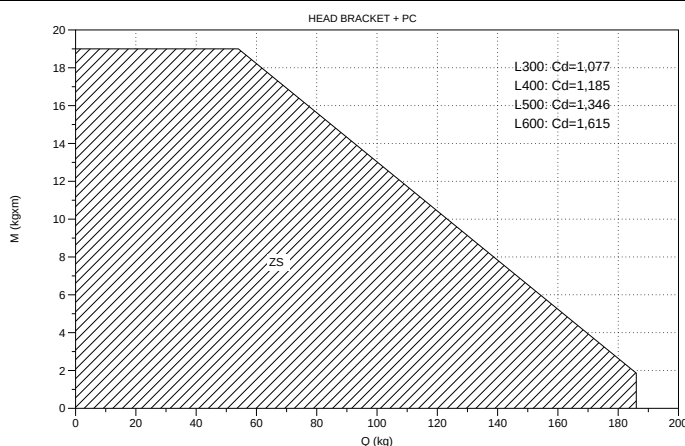
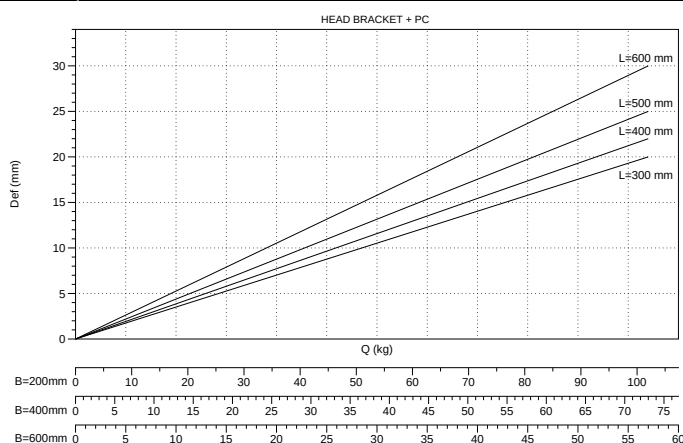
- On the profile's open area: SR.
- On the profile's lateral area: SRB; SCR.

## INSTRUCTIONS FOR USE



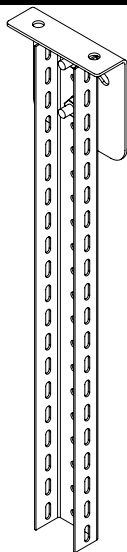
- For mounting on to the ceiling, two anchorages are needed.
- The hanging profile can be assembled either with SCD or with SRB, by way of using two B1 sets on the lateral area or two B2 sets on the central area.
- In order to be able to work on the profile's open axis, we shall have to use SR supports with four B1 bolt sets.

## SAVE WORKING LOAD



In order to determine the suitability of the PC+HEAD BRACKET support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$

## PC+SIMPLE HEAD BRACKET CEILING SUPPORT

**Models (L):**

3000

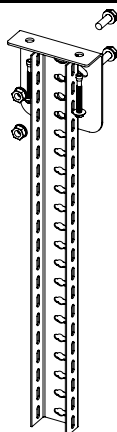
**Finishes:** GS ; HDG**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity
- Electrically conductive component
- With a metallic finishes; resistance to corrosion
- GS coating: Class 3
- HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

**Related products:**

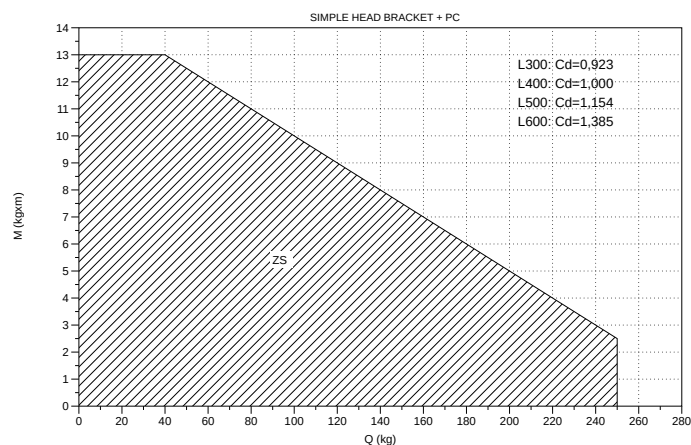
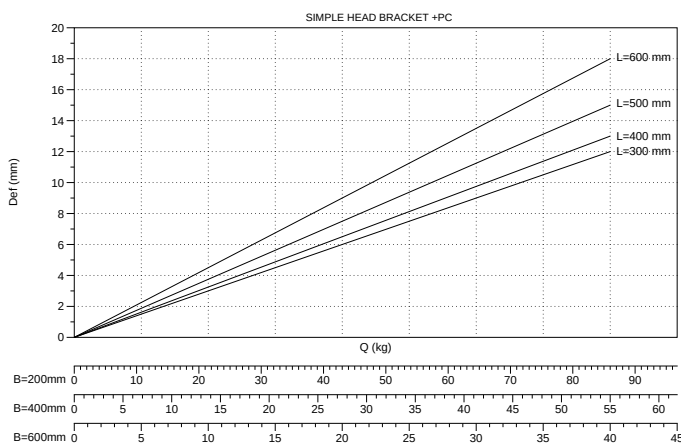
- SRB; SCR.

## INSTRUCTIONS FOR USE



- For mounting on to the ceiling, two anchorages are needed.
- The simple head bracket can be fixed onto the profile using two M10x30 sets.
- SCD or SRB supports can be fixed onto the profile's side by way of using two B1 sets.
- Supports can only be assembled on the profile's side.

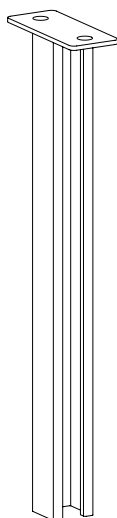
## SAVE WORKING LOAD



In order to determine the suitability of the PC+SIDE HEAD BRACKET support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$



## SPL CEILING SUPPORT



### Models (L):

300; 400; 500; 600; 700; 800

**Finishes:** Cincado; HDG

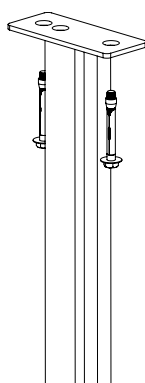
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity
- Electrically conductive component
- With a metallic finishes; resistance to corrosion
  - Galvanised coating: Class 2
  - HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

### Related products:

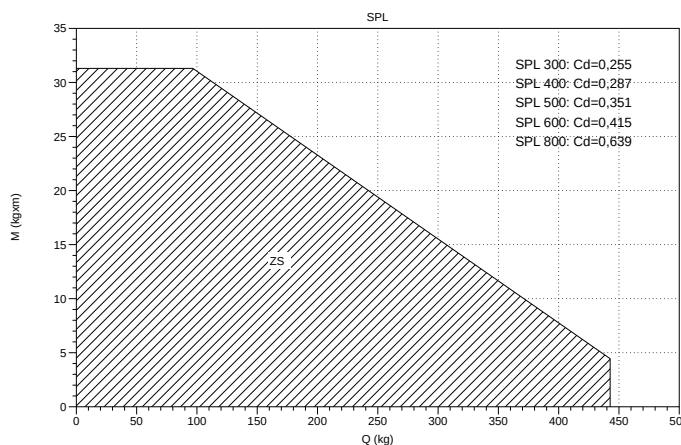
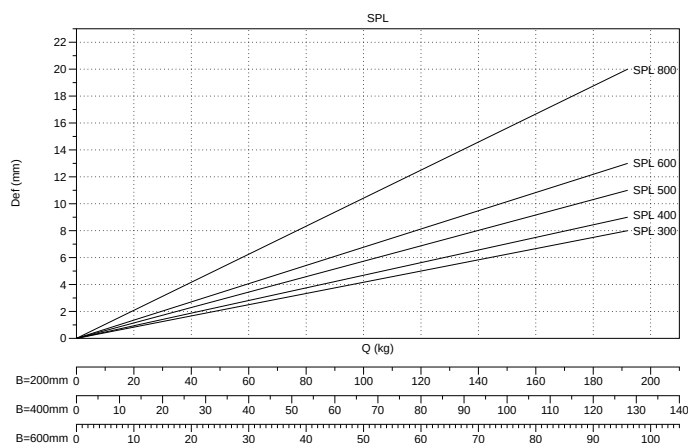
- On the profile's open area: SRB; SCR; SPL; SHL; SP.
- On the perforated area: SRB; SCR; SHL.

## INSTRUCTIONS FOR USE



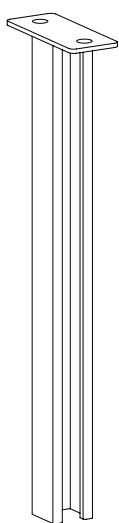
- For mounting on to the ceiling, two anchorages are needed.
- The SPL support only allows assembly on an axis.
- To fix the horizontal support onto the perforated side, two M10 bolt sets are needed.
- To assemble the horizontal support onto the profile's open area, complementary pieces are needed (two nut with spring sets)
- On the profile's open area, the support allows the alteration of the horizontal support's height, independently of the distance between holes.

## SAVE WORKING LOAD

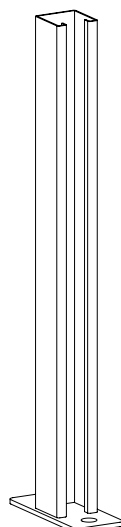


In order to determine the suitability of the SPL support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$

**SP** CEILING SUPPORT / FLOOR



SP CEILING



SP FLOOR

**Models (L):**

300; 400; 500; 600; 800

**Finishes:** Cincado; HDG

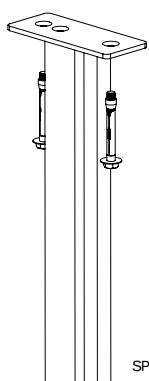
**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity
- Electrically conductive component
- With a metallic finishes; resistance to corrosion  
Galvanised coating: Class 2  
HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

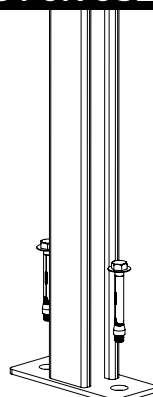
**Related products:**

- On the profile's open area: SRB; SCR; SPL; SHL; SP.
- On the perforated area: SRB; SCR; SHL.

**INSTRUCTIONS FOR USE**



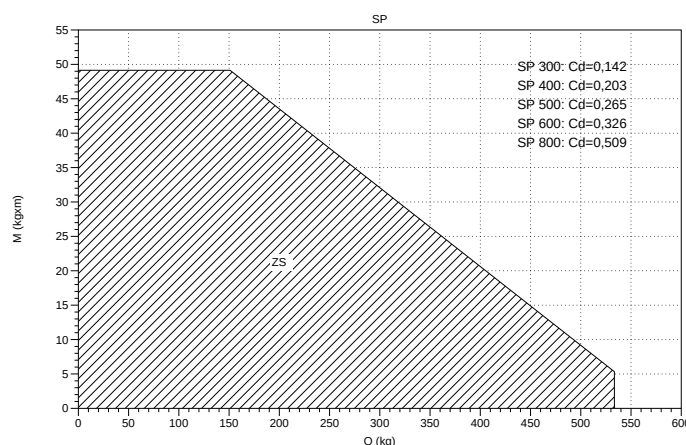
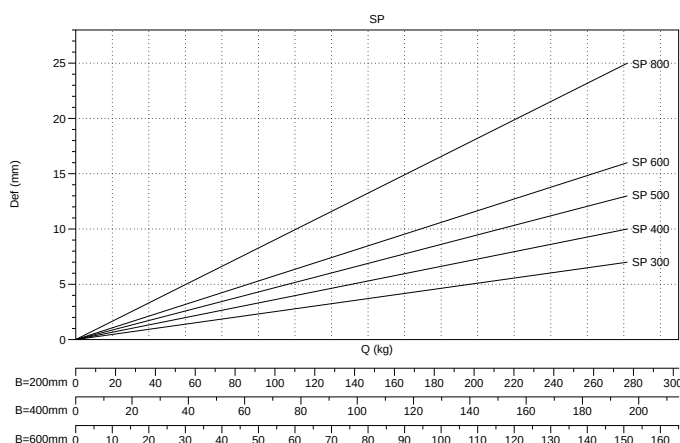
SP CEILING



SP FLOOR

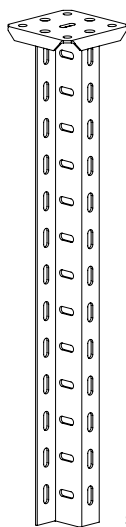
- For mounting the support, two anchorages are needed.
- The SPL support only allows assembly on an axis.
- To fix the horizontal support onto the perforated side, two M10 bolt sets are needed.
- To assemble the horizontal support onto the profile's open area, complementary pieces are needed (two nut with spring sets)
- On the profile's open area, the support allows the alteration of the horizontal support's height, independently of the distance between holes.

**SAVE WORKING LOAD**

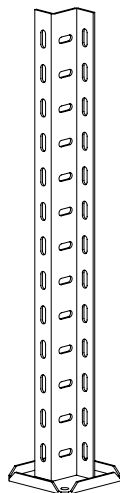


In order to determine the suitability of the SP support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$

## SZ CEILING SUPPORT / FLOOR



SZ CEILING



SZ FLOOR

### Models (L):

300; 400; 500; 600

**Finishes:** Cincado; HDG

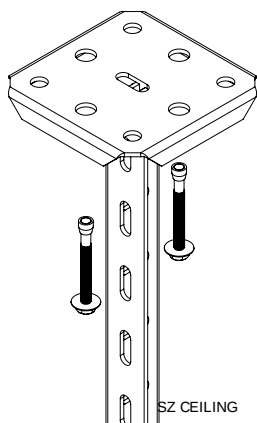
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- With a metallic finishes; resistance to corrosion
  - Galvanised coating: Class 2
  - HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

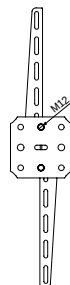
### Related products:

- SRB, SCR, SPL, SHL

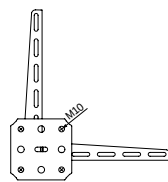
## INSTRUCTIONS FOR USE



SZ CEILING



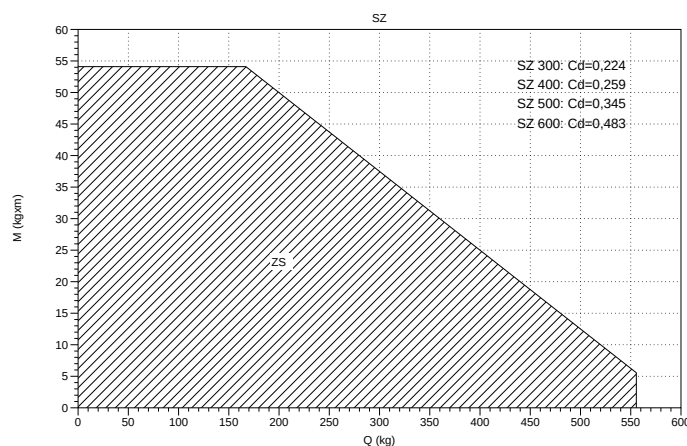
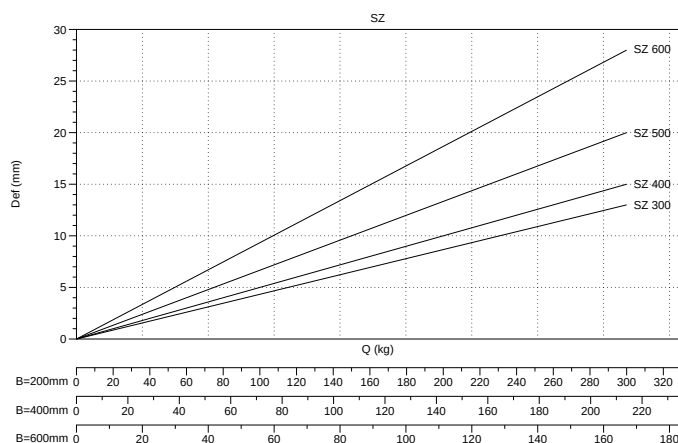
SZ+SHR 1 AXIS



SZ+SHR 2 AXES

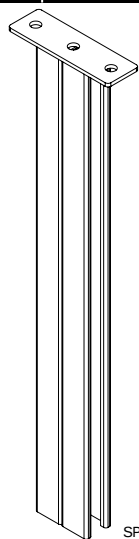
- No complementary pieces are needed for mounting the horizontal supports.
- The SZ support allows the mounting of horizontal supports on the profile's two work axes.
- When the profile works only on one axis, two M12 anchorages shall be used and when the two work axes are required, then four M10 anchorages shall be necessary.

## SAVE WORKING LOAD

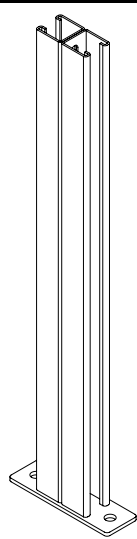


In order to determine the suitability of the SZ support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$

**SPD** CEILING SUPPORT / FLOOR



SPD CEILING



SPD FLOOR

**Models (L):**

500;600;700;800;1000

**Finishes:** HDG

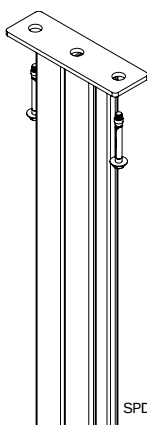
**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- With a metallic finishes; resistance to corrosion  
HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

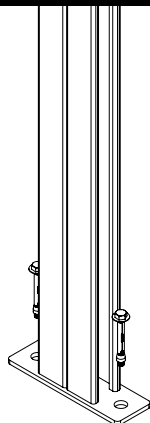
**Related products:**

- On the profile's open area: SRB, SCR, SPL, SHL, SP, SPD, SHR

**INSTRUCTIONS FOR USE**



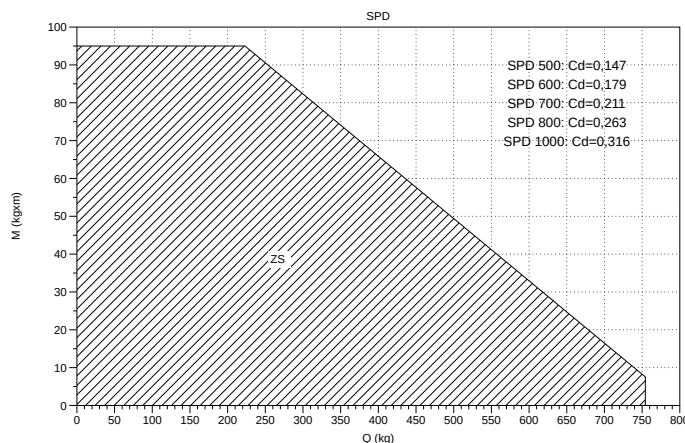
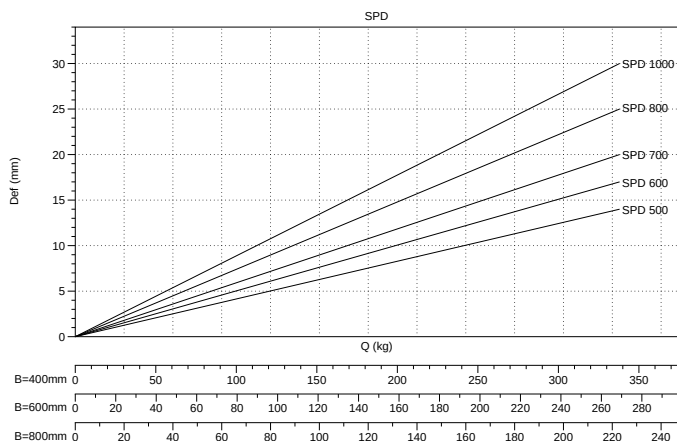
SPD CEILING



SPD FLOOR

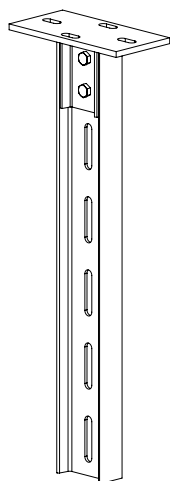
- The SPD support only allows assembly on one axis.
- To assemble the horizontal support, complementary pieces are needed (nut with spring sets).
- The profile's open area allows the alteration of the horizontal support's height.

**SAVE WORKING LOAD**

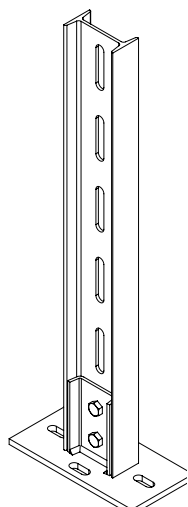


In order to determine the suitability of the SPD support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$

## HEAD SUPPORT + IPN80 CEILING SUPPORT / FLOOR



IPN80 CEILING



IPN80 FLOOR

### Models (L):

600;1000;1300;1500;2000;3000

### Finishes: HDG

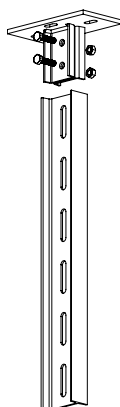
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- With a metallic finishes; resistance to corrosion  
HDG coating: Class 6
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

### Related products:

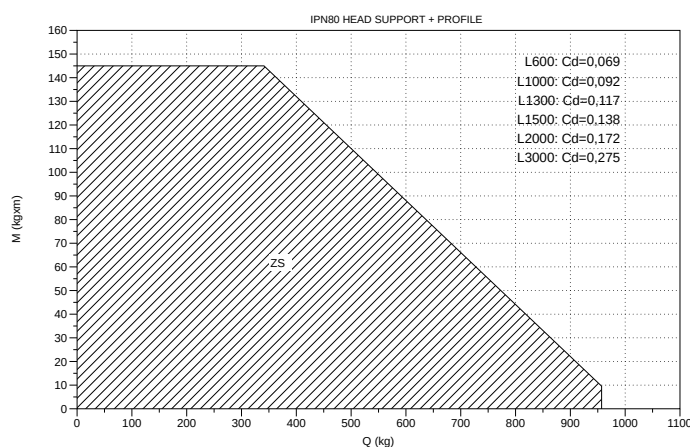
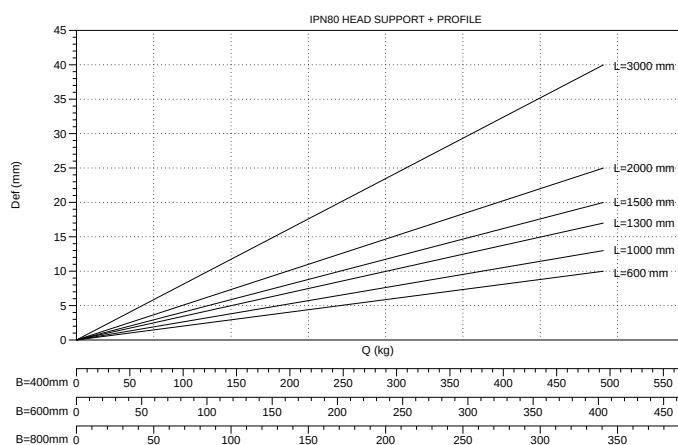
- SHV

## INSTRUCTIONS FOR USE



- The head support is mounted on the wall / ceiling / floor using two M12 anchorages.
- The IPN80 profile only allows assembly on one axis.
- The IPN80 profile allows us to mount the support onto the floor, ceiling and wall or in combined situations.
- The head support can be joined to the profile with two M10x30 sets.

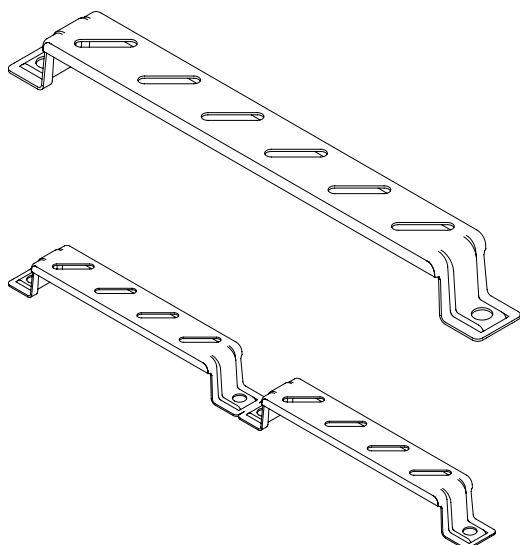
## SAVE WORKING LOAD



In order to determine the suitability of the IPN80 profile together with the IPN80 head support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$



## SV

**Models (B):**

100; 150; 200; 300; 400; 500; 600.

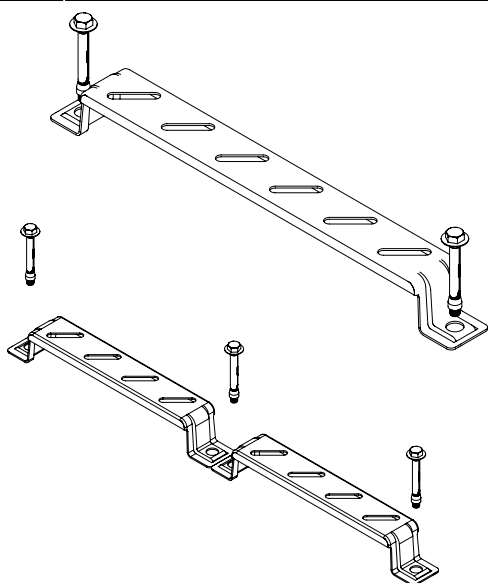
**Finishes:** GS; HDG**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- With a metallic finishes; resistance to corrosion

GS coating: Class 3

HDG coating: Class 6

## INSTRUCTIONS FOR USE



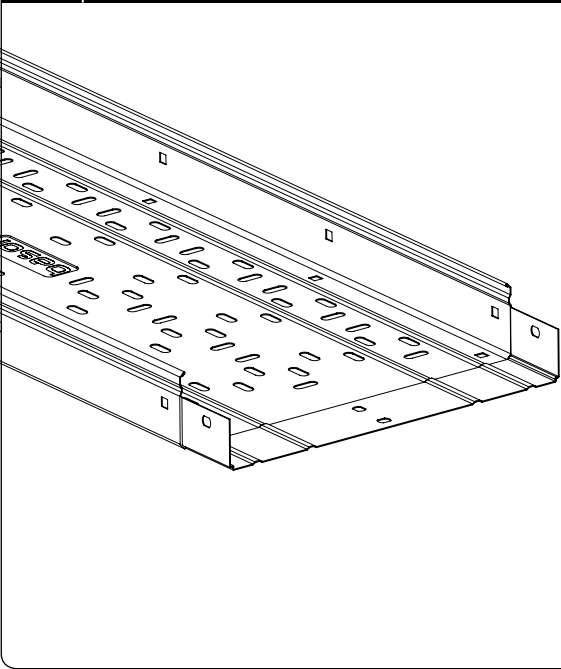
- For mounting the support, two floor anchorages are needed, and three in the case of doubles (models 400, 500 and 600)
- The trays are fixed onto the support using B1 sets.

## SAVE WORKING LOAD

| B   | SWL (kg) |
|-----|----------|
| 100 | 120      |
| 150 | 120      |
| 200 | 110      |
| 300 | 90       |
| 400 | 220      |
| 500 | 150      |
| 600 | 180      |



ERE I304



Models (BxH):

100x60;150x60;200x60;300x60.

Finishes: I304

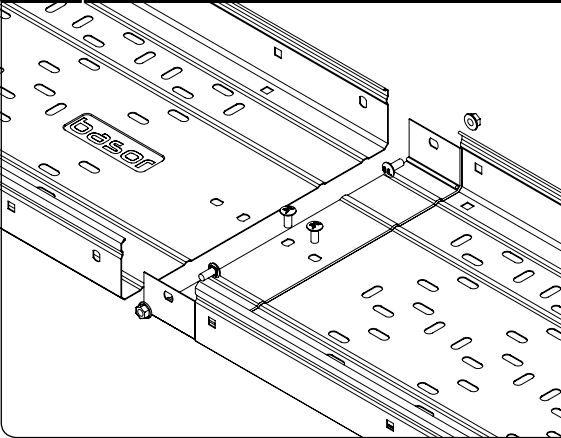
Characteristics of the cable tray:

- Metallic
- Non-flame propagating component
- With electrical continuity
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- Resistance to corrosion: Class 9A
- Impact resistance: 20J

- Classification according to the free base area:  
 Non-perforated tray: A  
 Perforated tray:

| Base Models | Classification |
|-------------|----------------|
| 100         | C              |
| 150         | B              |
| 200         | C              |
| 300         | C              |

INSTRUCTIONS FOR USE

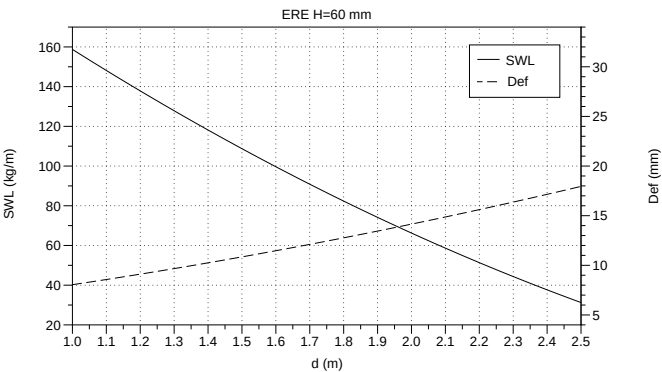


- For the set-up of the self-assembly system, four B1 I304 sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

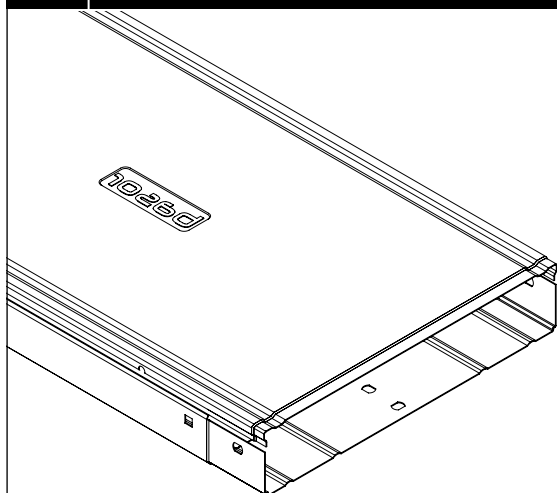
Accessories:

This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, joint plate.

SAVE WORKING LOAD



## ERE I304+COVER

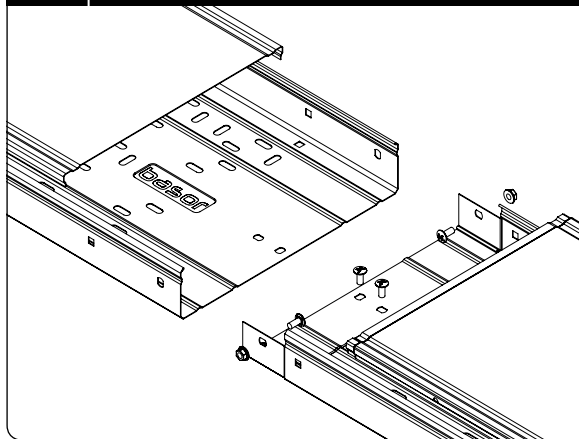
**Models (BxH):**

100x60; 150x60; 200x60; 300x60.

**Finishes: I304****Characteristics of the trunking:**

- Metallic system
- Impact resistance: 20J
- Minimum storage temperature of -45 °C
- Minimum installation temperature of -25 °C
- Maximum temperature of 120 °C
- Non-flame propagating component
- System with electrical continuity characteristic
- Without electrical insulation characteristic
- Level of protection:
  - Non-perforated ERE + ERE cover: IP44
  - Perforated ERE + ERE cover: IP23
- With high protection outside and inside against corrosive substances
- With access cover which can be opened without the need of tools
- Possibility of additional internal protective partition.

## INSTRUCTIONS FOR USE



- For the set-up of the self-assembly system, four B1 I304 bolts are needed.
- The cover can be fixed by applying pressure.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

**Accessories:**

This family has large array of accessories: Divider, horizontal bend, vertical inside, vertical outside, joint plate.

## BFR I304

### Models (BxH):

100x35; 150x35; 200x35; 300x35; 60x65; 100x65; 150x65; 200x65; 300x65; 400x65; 500x65; 600x65; 200x105; 300x105; 400x105; 500x105; 600x105.

### Finishes: I304

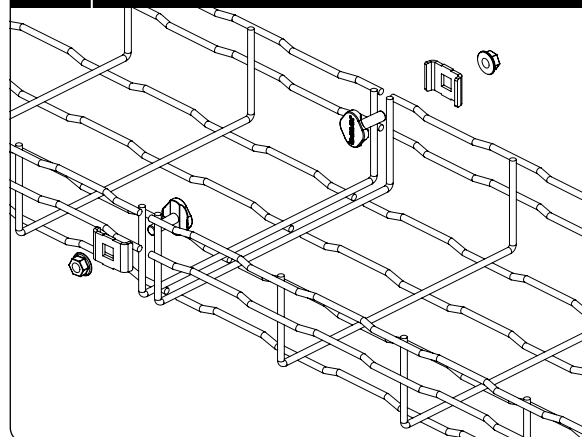
### Characteristics of the cable tray:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- Resistance to corrosion: Class 9A

- Classification according to the free base area:

| Base Models | Classification |
|-------------|----------------|
| 60          | Z              |
| 100         | Y              |
| 150         | Y              |
| 200         | Y              |
| 300         | Y              |
| 400         | Y              |
| 500         | Y              |
| 600         | Y              |

## INSTRUCTIONS FOR USE



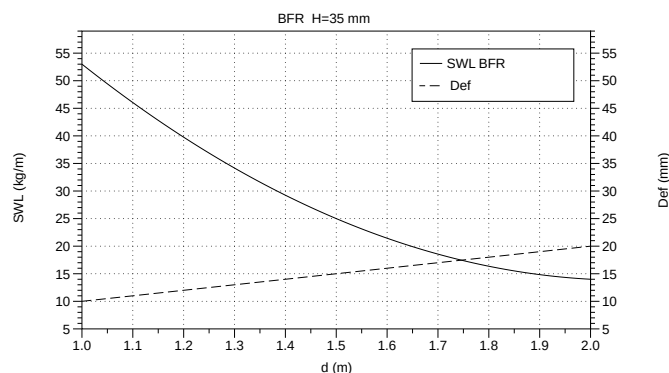
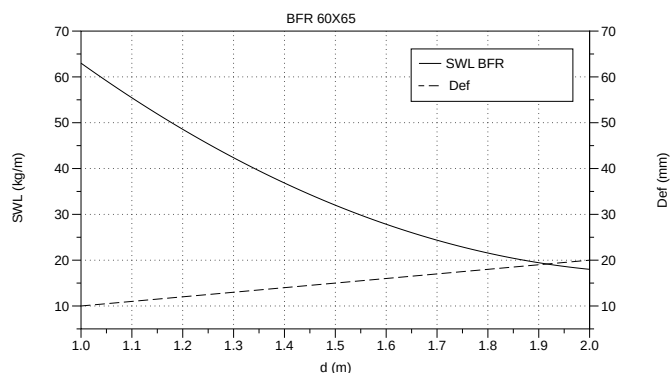
- In order to join the trays, ensemble bolts BF I304 are placed on the wings.
- From width 300 onwards, a fixation element is added and placed on the centre of the base.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

### Accessories:

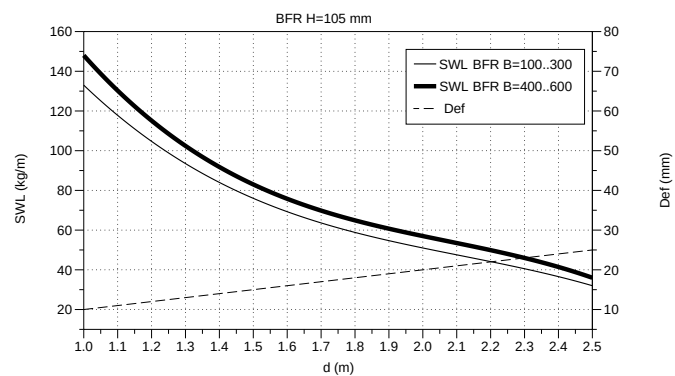
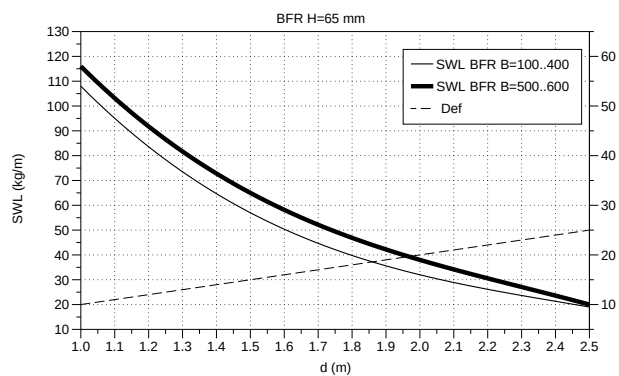
This family has the following accessories: Cover, divider.

Union elements: set bolt-staple, lateral joint, set bolt BF-nut and multi-union joint. Fixation elements: SSC, double SL, simple SL, universal support box, mini universal support box.

## SAVE WORKING LOAD



## SAVE WORKING LOAD





## SCR I304

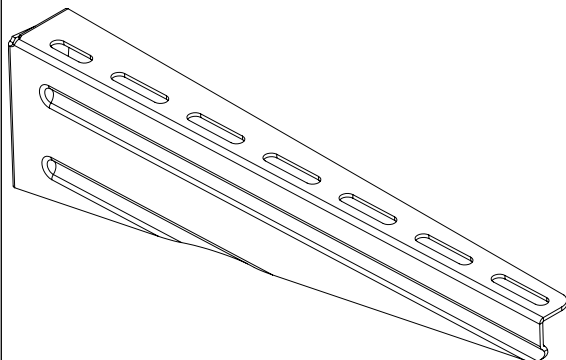
### Models (B):

50; 100; 150; 200; 300; 400; 500; 600; 750.

### Finishes: I304

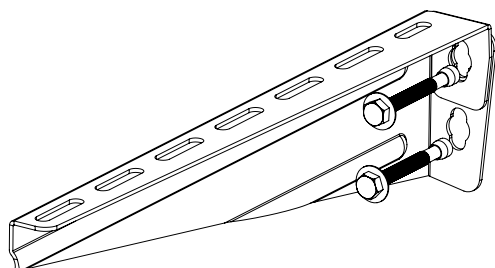
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- Resistance to corrosion: Class 9A

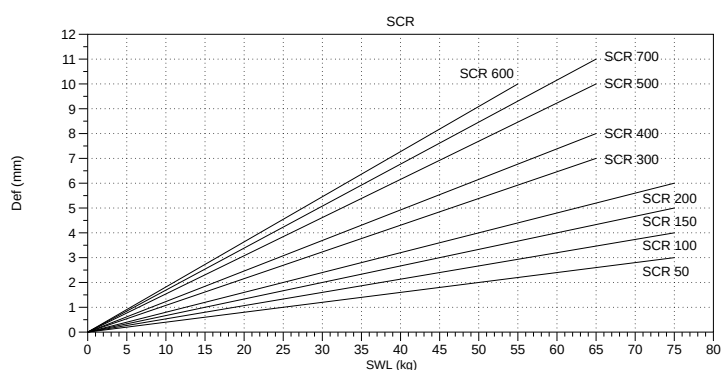


## INSTRUCTIONS FOR USE

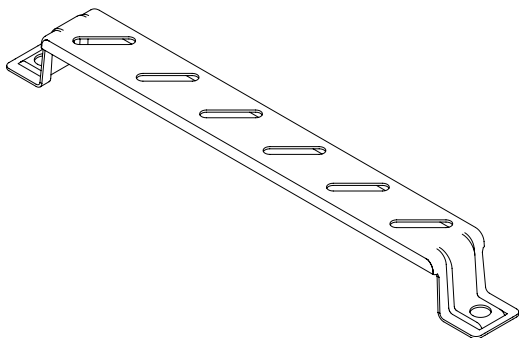
- For the assembly of the support, two wall anchorages are needed.
- To fix the trays, B1 I304 sets are needed.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.



## SAVE WORKING LOAD



## SV I304

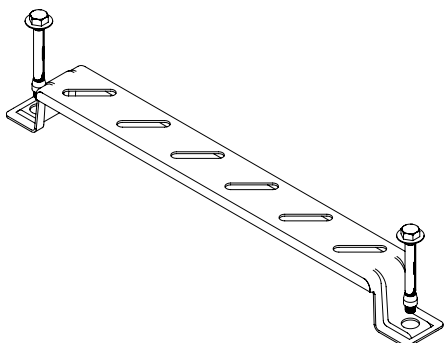
**Models (B):**

100; 150; 200; 300.

**Finishes: I304****Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- Resistance to corrosion: Class 9A

## INSTRUCTIONS FOR USE



- For the assembly of the support, two floor anchorages are needed.
- The trays are mounted onto the supports using B1 I304 sets.

## SAVE WORKING LOAD

| B   | SWL (kg) |
|-----|----------|
| 100 | 120      |
| 150 | 120      |
| 200 | 110      |
| 300 | 90       |

**SVO I304** CEILING SUPPORT

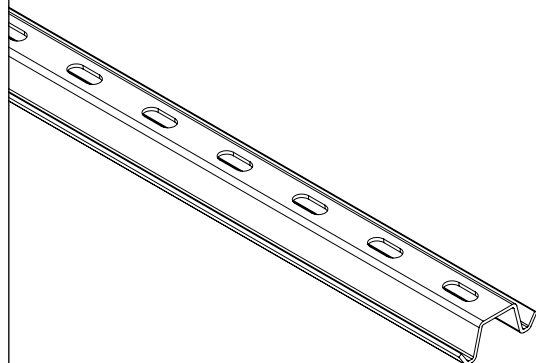
**Models (B):**

150; 200; 250; 300; 350; 400; 500; 600.

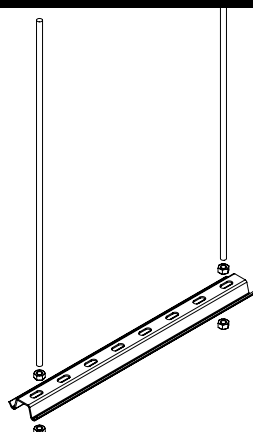
**Finishes: I304**

**Characteristics:**

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- Resistance to corrosion: Class 9A
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

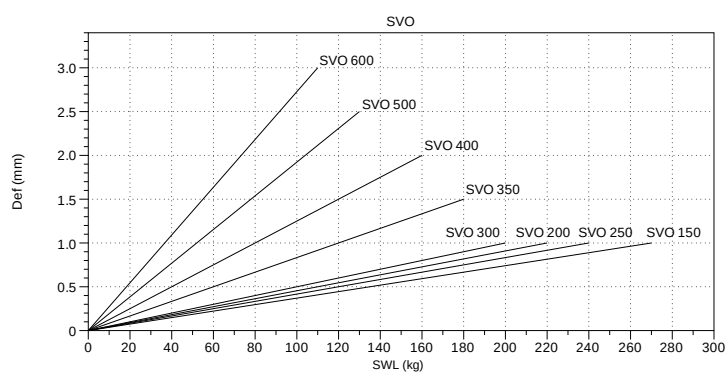


**INSTRUCTIONS FOR USE**

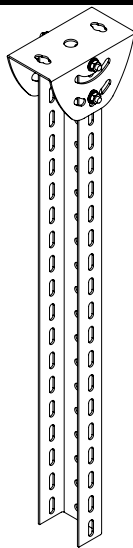


- For mounting the support on to the ceiling, two THREADED RODS are needed.
- The SVO support allows the alteration of the free height depending on the needs, by way of altering the length of the threaded rod.

**SAVE WORKING LOAD**



## PC+HEAD BRACKET I304 CEILING SUPPORT



### Models (L):

3000

### Finishes: I304.

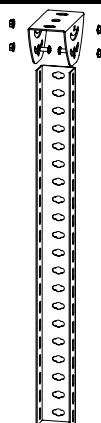
### Characteristics:

- Metallic
- Non-flame propagating component
- With electrical continuity characteristic
- Electrically conductive component
- Resistance to corrosion: Class 9A
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C

### Related products:

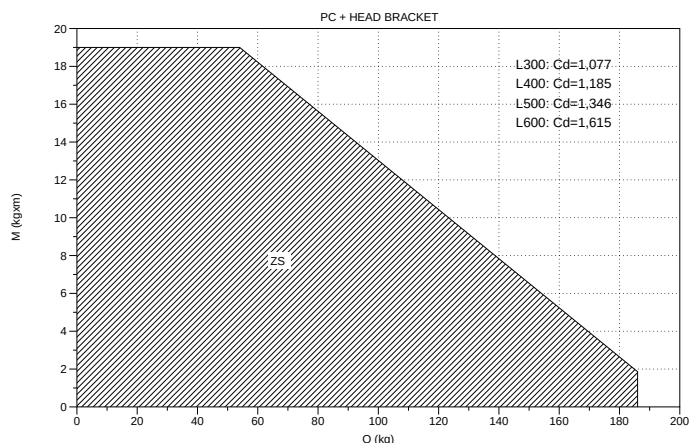
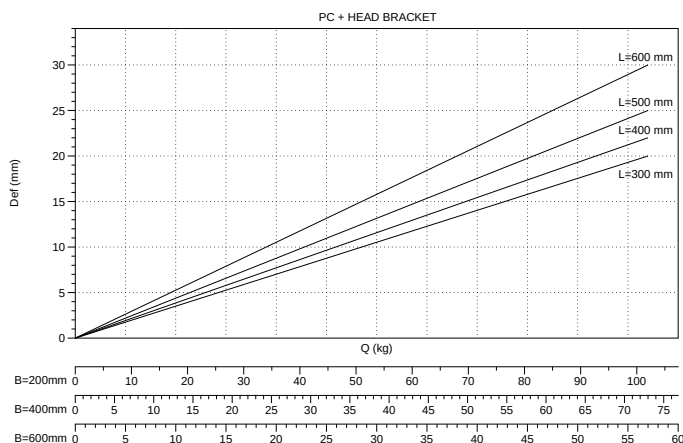
- SRB; SCR.

## INSTRUCTIONS FOR USE



- For mounting onto the ceiling, two anchorages are needed.
- The hanging profile can be assembled either with SCD or with SRB, by way of using two B1 sets on the lateral area or two B2 sets on the central area.

## SAVE WORKING LOAD



In order to determine the suitability of the PC+HEAD BRACKET support, observe the relationship between the bending moment and the traction load which has the most unfavourable effect on the support and check whether it is working within the limits of the safety area. To obtain the pendant's deflection, multiply the bending moment (M) by the corresponding support's distortion coefficient (Cd).  $f=M \cdot Cd$

**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORPLAST BPB**

Declares that the product:

**BASORPLAST BPB**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CE (Directiva de Baja Tensión)

2006/95/CE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its modification R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 50085-1

UNE EN 50085-2-1

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

**2009**

Lugar y Fecha:

Place and date:

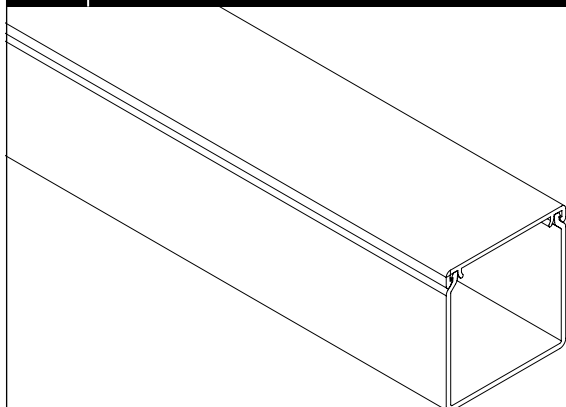
Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



## BPB

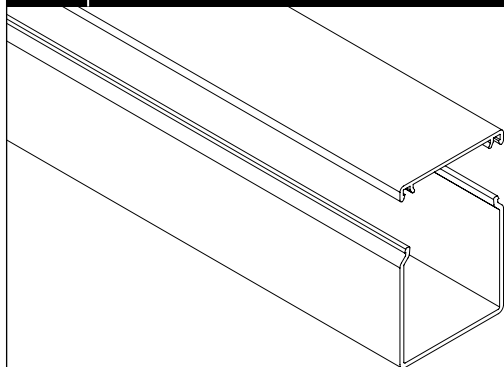
**Models (HxB):**

16x25; 16x40/2; 25x25; 40x40; 40x60; 60x60; 60x100.

**Finishes:** PVC M1**Characteristics of the trunking:**

- Non-metallic system
- Impact resistance: 2J
- Minimum temperature of -15 °C
- Maximum temperature of 60 °C
- Non-flame propagating component
- Without electrical continuity characteristic
- With electrical insulating characteristic
- Level of protection: IP4X
- Interior and exterior high level of protection against corrosive and polluting substances
- With access cover which can be opened without the need of tools
- M1 fire rating, UNE 23727
- Incandescent self-extinguishing wire at 960 °C, UNE 60695-2-1/1
- Inflammability UL 94-V0, AISI/UL 94-1995
- Oxygen level LOI>50%, UNE-EN ISO 4589

## INSTRUCTIONS FOR USE



- The cover can be fixed by applying pressure.

DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORPLAST BPI**

Declares that the product:

**BASORPLAST BPI**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

73/23 CEE y su modificación 93/68 CEE (Directiva de Baja Tensión)

73/23 CEE and its amendment 93/68 CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61537

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

Place and date:

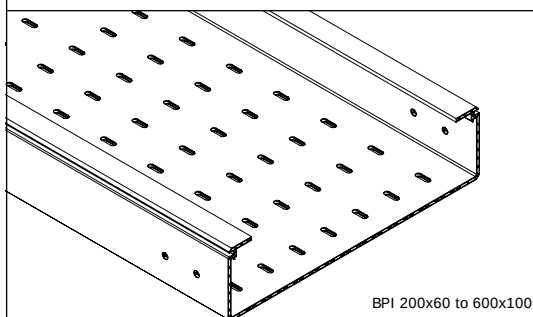
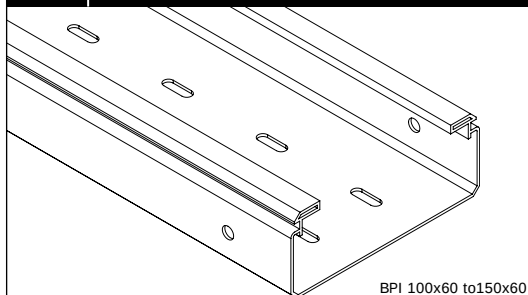
Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



## BASORPLAST BPI

**Models (HxB):**

60x100; 60x150; 60x200; 60x300; 100x200; 100x300; 100x400; 100x600.

**Finishes:** PVC M1**Characteristics of cable tray:**

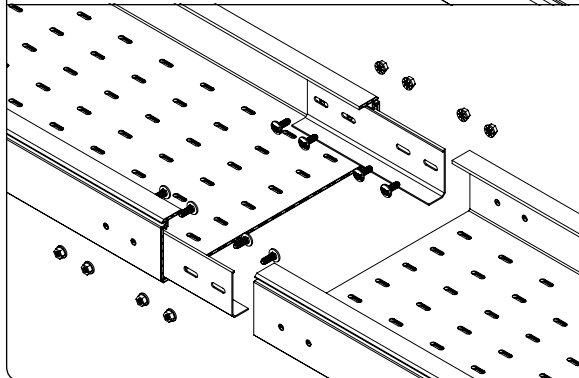
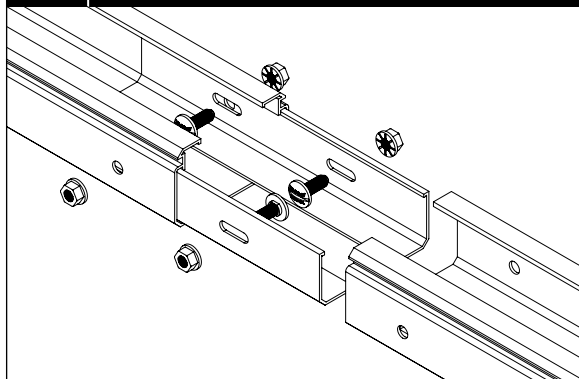
- Non-metallic system
- Impact resistance: 2J, except for 60x100 which has 10J
- Minimum temperature of -20°C
- Maximum temperature of 60°C
- Non-flame propagating component
- Without electrical continuity characteristic
- Electrically non-conductive system component
- Interior and exterior high level of protection against corrosive and polluting substances
- M1 fire rating, UNE 23727
- Incandescent self-extinguishing wire at 960°C, UNE 60695-2-1/1
- Inflammability UL 94-VO, AISI/UL 94-1995
- Oxygen level LOI>50%, UNE-EN ISO 4589

Classification according to the free base area:

Non-perforated tray: Classification A  
Perforated tray:

| Base Models | Classification |
|-------------|----------------|
| 100         | B              |
| 150         | B              |
| 200         | B              |
| 300         | C              |
| 400         | B              |
| 600         | B              |

## INSTRUCTIONS FOR USE



- For the assembly, two union joints and four M8 PVC bolt sets are needed for each stretch (8 for H100 models).
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

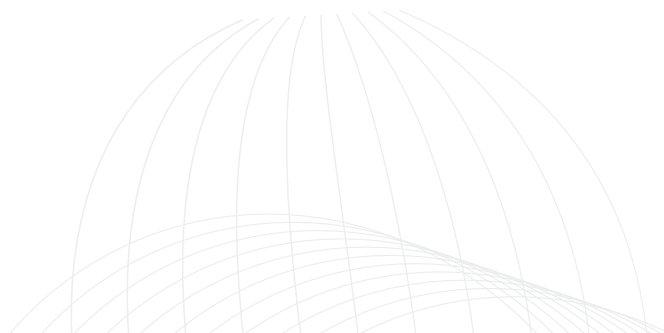
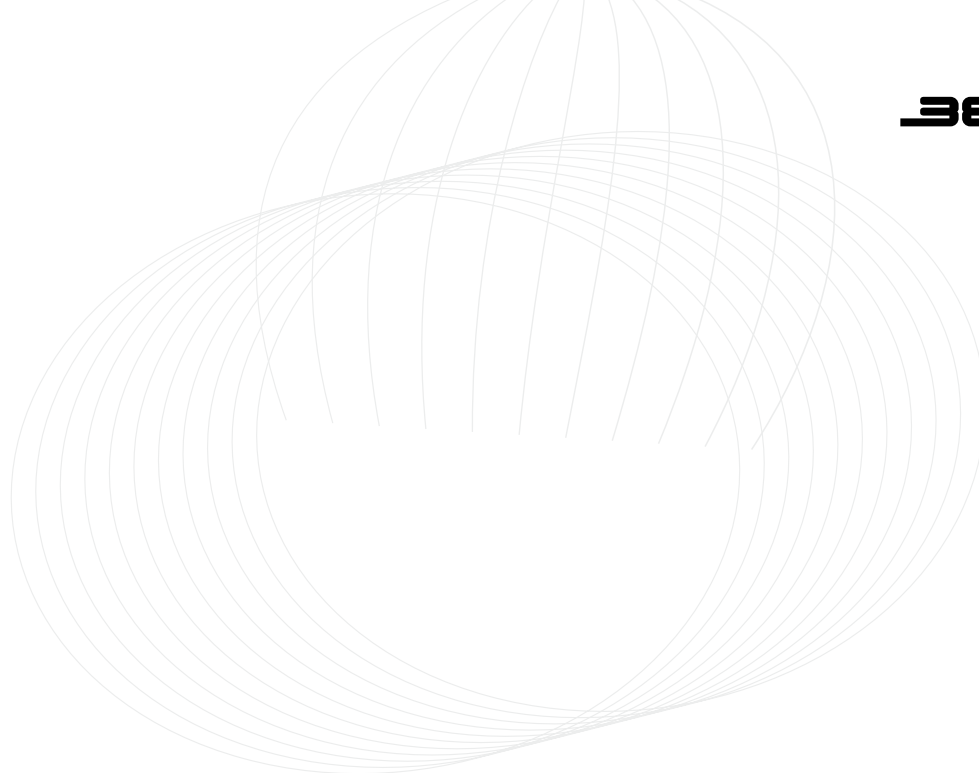
**Accessories:**

This family has large array of accessories: Cover, divider, horizontal bend, vertical inside, vertical outside, union joint, articulated union joint, angle joint.

## SAVE WORKING LOAD

| BASORPLAST  | SWL (Kg/m)     |
|-------------|----------------|
|             | Distance 1.5 m |
| BPI-60x100  | 23             |
| BPI-60x150  | 28             |
| BPI-60x200  | 39             |
| BPI-60x300  | 45             |
|             |                |
| BPI-100x200 | 79             |
| BPI-100x300 | 92             |
| BPI-100x400 | 101            |
| BPI-100x600 | 118            |

Note: These SWL are below a temperature of 40°C with a distance of 1.5 m between supports and below 60°C with a distance of 1 m between supports.





**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:  
**BASORPLAST BPI CON TAPA**

Declares that the product:  
**BASORPLAST BPI WITH COVER**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**  
**Complies with the Council Directives' essential requirements:**

73/23 CEE y su modificación 93/68 CEE (Directiva de Baja Tensión)  
73/23 CEE and its amendment 93/68 CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.  
Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**  
**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 50085-1  
UNE EN 50085-2-1

**Información adicional:**  
**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:  
Year of affixing of the CE marking:

**2009**

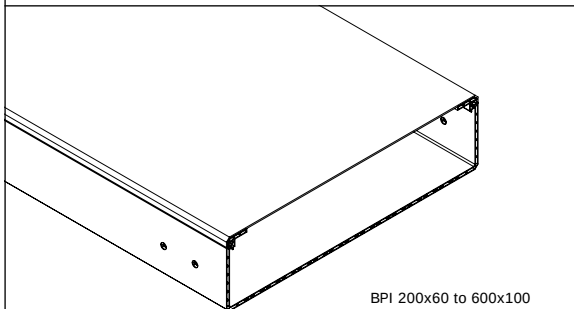
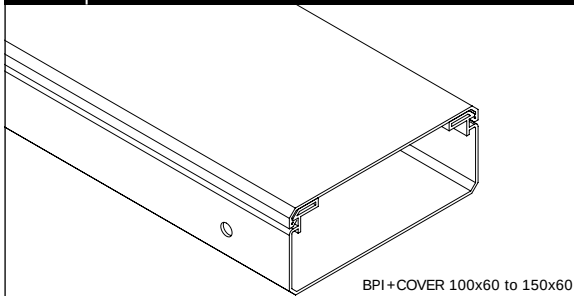
Lugar y Fecha:

Place and date:

Gandía Marzo 2009

Gandía March 2009

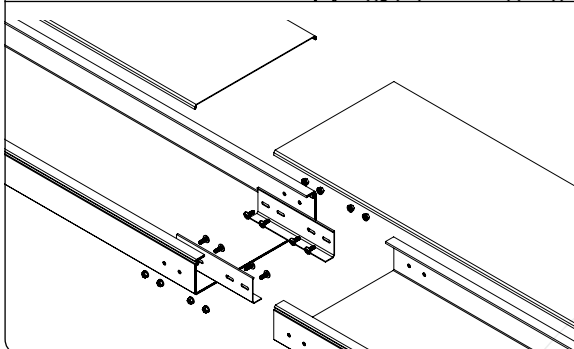
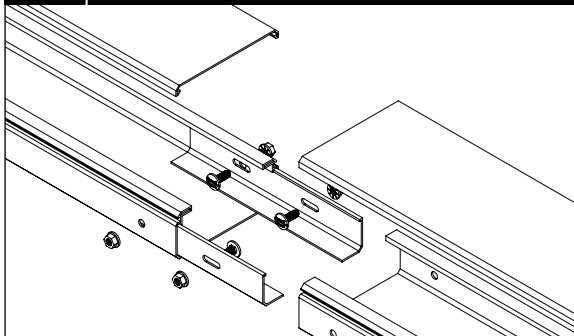
Departamento Técnico

**BPI+COVER****Models (HxB):**

60x100; 60x150; 60x200; 60x300; 100x200; 100x300; 100x400; 100x600.

**Finishes:** PVC M1**Characteristics of the trunking:**

- Non-metallic system
- Impact resistance: 20J, except for 60x100 which 10J
- Minimum temperature of -15°C
- Maximum temperature of 60°C
- Non-flame propagating component
- Without electrical continuity characteristic
- With electrical insulating characteristic
- Level of protection against the penetration of solid substances: UNE 20.234:
  - Non-perforated BPI + Cover: IP4X
  - Perforated BPI + Cover: IP2X
- Level of protection against mechanical damages, UNE-EN 50.102:
  - IK07 (IK10 with supplementary piece)
- Interior and exterior high level of protection against corrosive and polluting substances
- With access cover which can be opened without the need of tools. In case supplementary piece needed to use a screwdriver
- M1 fire rating, UNE 23727
- Incandescent self-extinguishing wire at 960°C, UNE 60695-2-1/1
- Inflammability UL 94-V0, AISI/UL 94-1995
- Oxygen level LOI>50%, UNE-EN ISO 4589

**INSTRUCTIONS FOR USE**

- They are mounted using two union joints per piece with two M8 PVC bolts at height 60 and four at height 100.
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas canalizations.

**Accessories:**

This family has large array of accessories: Divider, horizontal bend, vertical inside, vertical outside, end cover, lateral junction piece, joint plate, articulated joint, angle joint.

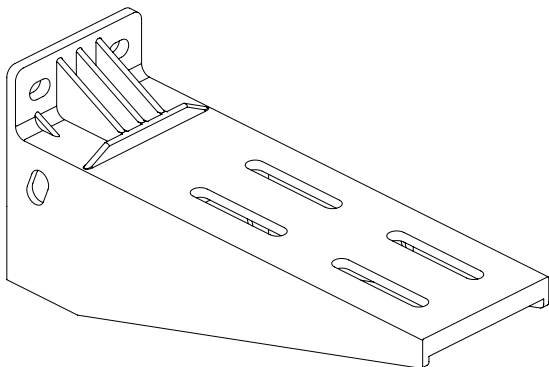
## SHG

**Models (B):**

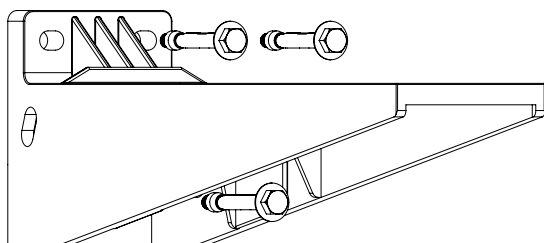
150; 200; 300.

**Finishes:** PVC M1**Características:**

- Non-metallic
- Non-flame propagating component
- Without electrical continuity characteristic
- Electrically non-conductive system component
- Minimum temperature of -20°C
- Maximum temperature of 60°C
- M1 fire rating, UNE 23727
- Incandescent self-extinguishing wire at 960°C, UNE 60695-2-1/1
- Inflammability UL 94-VO, AISI/UL 94-1995
- Oxygen level LOI>50%, UNE-EN ISO 4589

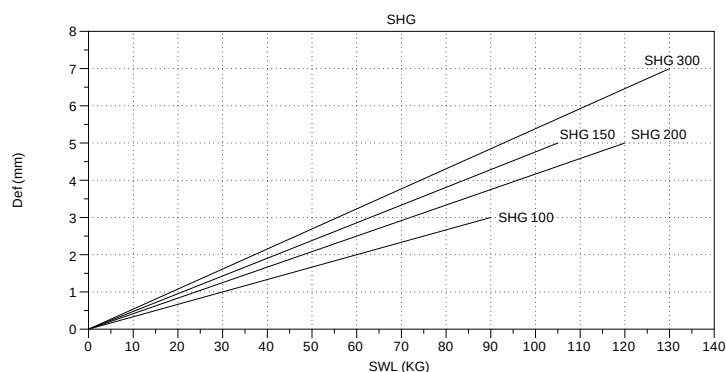


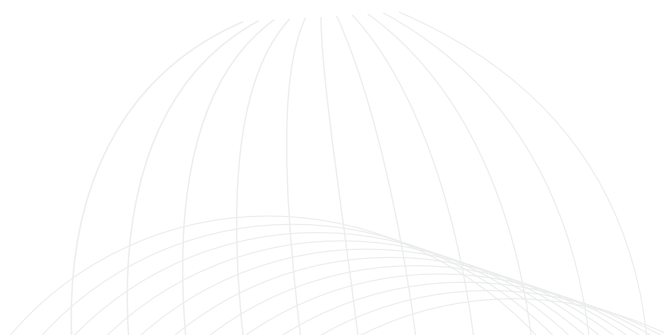
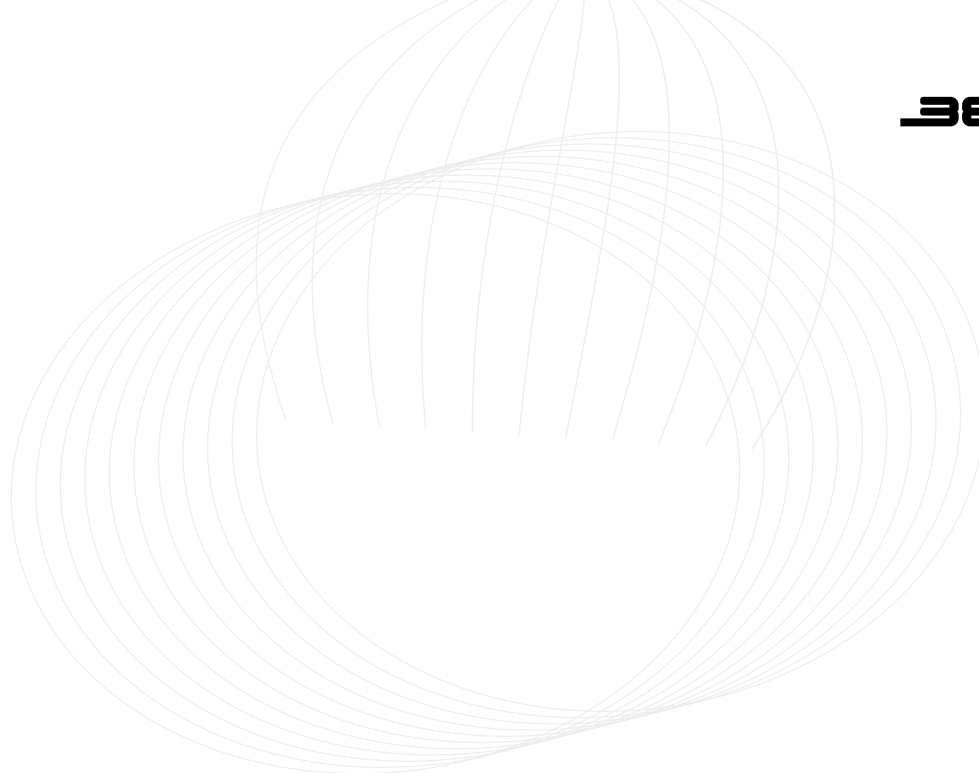
## INSTRUCTIONS FOR USE



- For the mounting of the support, three wall anchorages are needed.
- To fix the support on to the tray, M8 PVC sets are used.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

## SAVE WORKING LOAD





**DECLARACION DE CONFORMIDAD**  
**DECLARATION OF CONFORMITY**



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORCANAL CT**

Declares that the product:

**BASORCANAL CT**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

73/23 CEE y su modificación 93/68 CEE (Directiva de Baja Tensión)

73/23 CEE and its amendment 93/68 CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 50085-1

UNE EN 50085-2-1

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

**2009**

Lugar y Fecha:

Place and date:

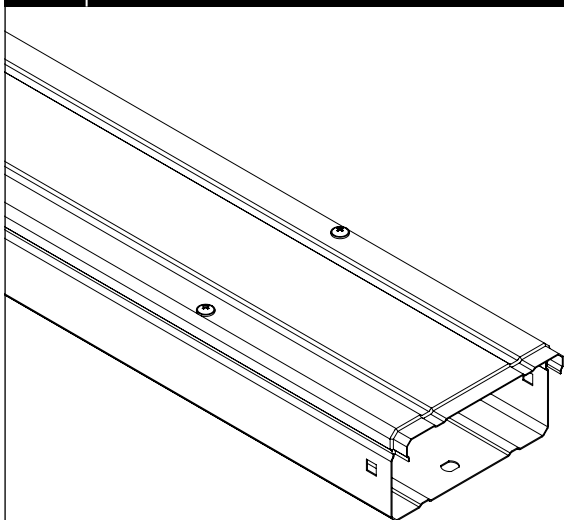
Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



## CT

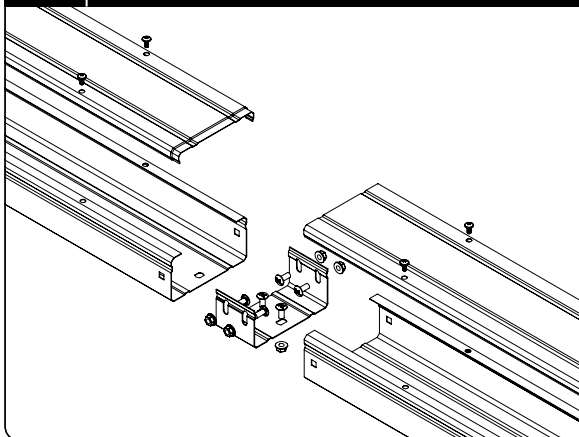
**Models (HxB):**

40x80; 40x120; 60x120; 80x140; 80x200; 100x200; 100x300; 100x400; 100x600.

**Finishes:** GSE**Characteristics of trunking:**

- Metallic system
- Impact resistance: 20J
- Minimum temperature of -45°C
- Maximum temperature of 120°C
- Non-flame propagating component
- System with electrical continuity characteristic
- Without electrical insulating characteristic
- Level of protection:
  - IP65 with a buprene union joint
  - IP53 without a buprene union joint
- Interior and exterior high level of protection against corrosive and polluting substances
- With access cover which can be opened with the help of tools.

## INSTRUCTIONS FOR USE



- They are joined with a "U" shape union joint with six B1 sets.
- To fix the cover, six M4 bolts per closed cable tray are needed.
- The tray installation for an electrical system should NOT run under other types of canalisation such as water, vapour or gas canalisation.

DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTUB R1250 PVC**

Declares that the product:

**BASORTUB R1250 PVC**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CE (Directiva de Baja Tensión)

2006/95/CE (Low Voltage Directive)

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61386-1

UNE EN 61386-21

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

Place and date:

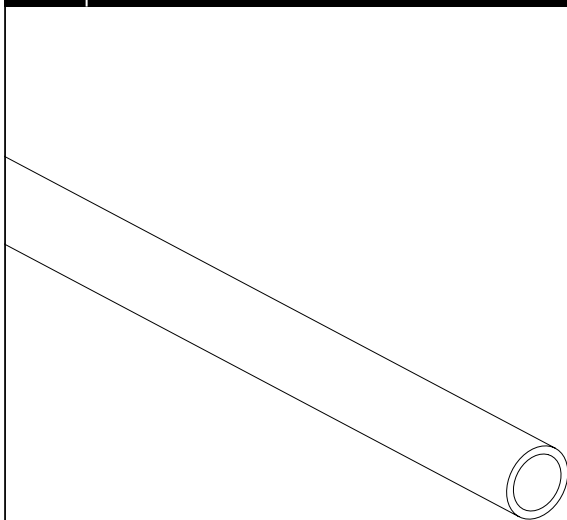
Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



## R1250 PVC

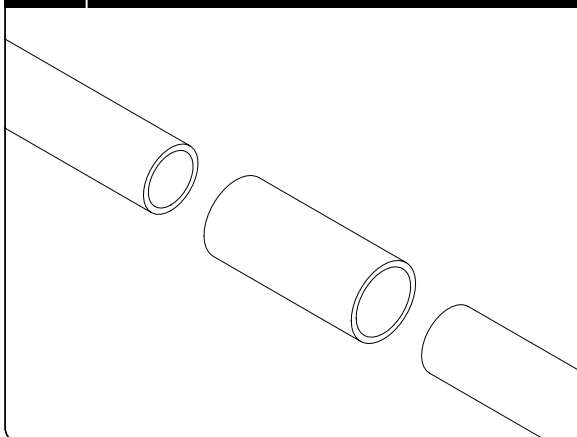
**Models:**

16, 20, 25, 32, 40, 50, 63

**Material:** PVC7035**Characteristics of the conduit:**

- Code: 4321 1254 4010
- Rigid plastic conduit
- Compression strenght: 1250N
- Impact strenght: 2J
- With electrical insulating characteristic
- Minimum temperature of -5°C
- Maximum temperature of 60°C
- Dielectric rigidity >2000V
- Insulation resistance >100MΩ
- Non-flame propagating component

## INSTRUCTIONS FOR USE



- JUR union joints shall be used to join the different pipe stretches.
- The installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.

**Accessories:**

CP90 elbow, JUR coupler, flexible bend, MCR racor, SPR clip, ABR tie.

DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTUB R1250 RLH**

Declares that the product:

**BASORTUB R1250 RLH**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CE (Directiva de Baja Tensión)

2006/95/CE (Low Voltage Directive)

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61386-1

UNE EN 61386-21

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

2009

Year of affixing of the CE marking:

Lugar y Fecha:

Place and date:

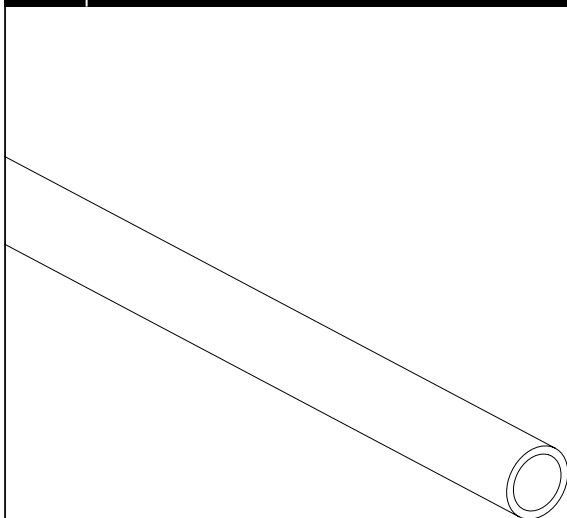
Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



## R1250 RLH

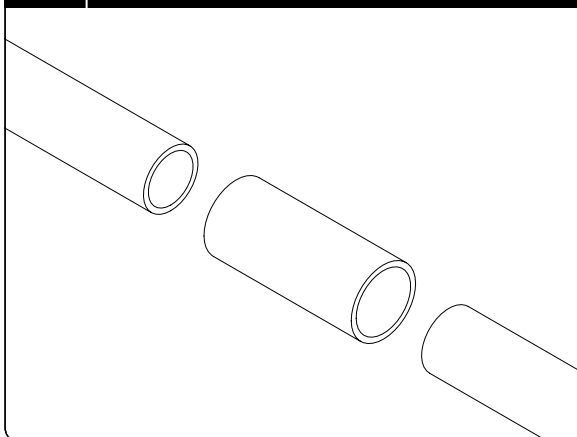
**Models:**

16, 20, 25, 32, 40, 50, 63

**Material:** PP7035**Characteristics of the conduit:**

- Code: 4422 1254 4010
- Halogen free rigid plastic conduit
- Compression strenght: 1250N
- Impact strenght: 6J
- With electrical insulating characteristic
- Minimum temperature of -5°C
- Maximum temperature of 90°C
- Dielectric rigidity >2000V
- Insulation resistance >100MΩ
- Non-flame propagating component

## INSTRUCTIONS FOR USE



- JUR union joints shall be used to join the different conduit stretches.
- The installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.

**Accessories:**

CP90 elbow, JUR coupler, flexible bend, MCR racor, SPR clip, ABR tie.



DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTUB RE1250 RLH**

Declares that the product:

**BASORTUB RE1250 RLH**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CE (Directiva de Baja Tensión)

2006/95/CE (Low Voltage Directive)

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61386-1

UNE EN 61386-21

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

Place and date:

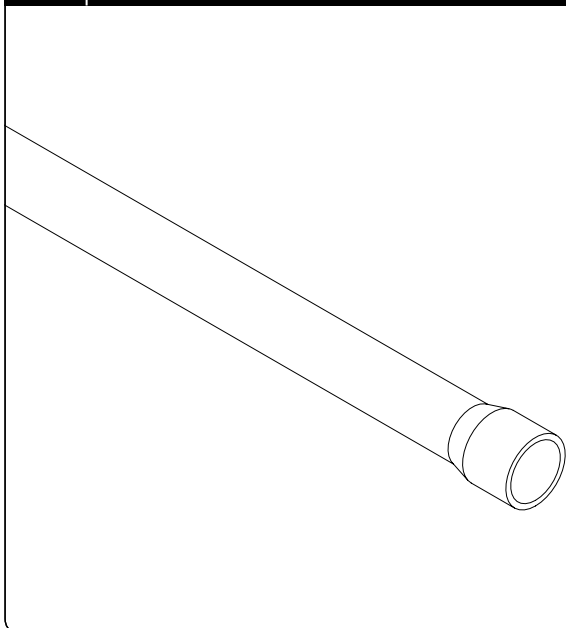
Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



## RE1250 RLH

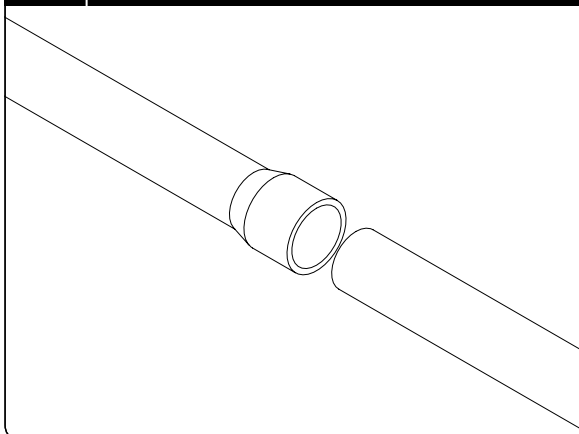
**Models:**

16, 20, 25, 32, 40, 50, 63

**Material:** PP7035**Characteristics of the conduit:**

- Code: 4422 1254 4010
- Halogen free rigid plastic conduit
- Compression strenght: 1250N
- Impact strenght: 6J
- With electrical insulating characteristic
- Minimum temperature of -5°C
- Maximum temperature of 90°C
- Dielectric rigidity >2000V
- Insulation resistance >100MΩ
- Non-flame propagating component
- Degree of protection against external influences: IP54

## INSTRUCTIONS FOR USE



- Apart from the JUR union joint, each conduit stretch is wider on one of the ends so that it is easier to connect it to the next stretch.
- The tray installation for an electrical system should NOT run under other types of canalisations such as water, vapour or gas canalisations.

**Accessories:**

CP90 elbow, JUR coupler, flexible bend, MCR racor, SPR clip, ABR tie.

DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORFLEX FLEXL PA6**

Declares that the product:

**BASORFLEX FLEXL PA6**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

2006/95/CE (Directiva de Baja Tensión)

2006/95/CE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 61386-1

UNE EN 61386-23

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

2009

Lugar y Fecha:

Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico

DECLARACION DE CONFORMIDAD  
DECLARATION OF CONFORMITY



La Empresa: **BASOR ELECTRIC, S.A.**  
The Company: **BASOR ELECTRIC, S.A.**

Declara que el producto:

**BASORTRUNKING**

Declares that the product:

**BASORTRUNKING**

Instalado de acuerdo con las normas de instalación, instrucciones del fabricante y conforme a las reglas profesionales, debidamente mantenido y utilizado en las aplicaciones para las que está previsto.

Installed in accordance with the installation standards, manufacturer's instructions and professional rules, and duly maintained and used for the applications for which it is intended.

**Cumple con los requisitos esenciales de las Directivas del Consejo:**

**Complies with the Council Directives' essential requirements:**

73/23 CEE y su modificación 93/68 CEE (Directiva de Baja Tensión)

73/23 CEE and its modification 93/68 CEE (Low Voltage Directive)

Incorporado en la Legislación Española en: R.D. 7/1988 y su modificación R.D. 154/1995.

Incorporated in the Spanish Legislation in: R.D. 7/1988 and its amendment R.D. 154/1995.

**Es adecuado y seguro para el uso a que está destinado y es conforme con la siguiente norma:**

**Is suitable and safe for the intended use and is in conformity with the following standard:**

UNE EN 60439-1

UNE EN 60439-2

**Información adicional:**

**Additional information:**

Este producto está previsto para ser instalado y mantenido por un profesional, puede ser usado por una persona no formada para reemplazamiento de uno idéntico.

This product is intended to be installed and maintained by skilled professionals, and may only be manipulated by non-skilled people in order to substitute it for an identical device.

Año de fijación del marcado CE:

Year of affixing of the CE marking:

**2009**

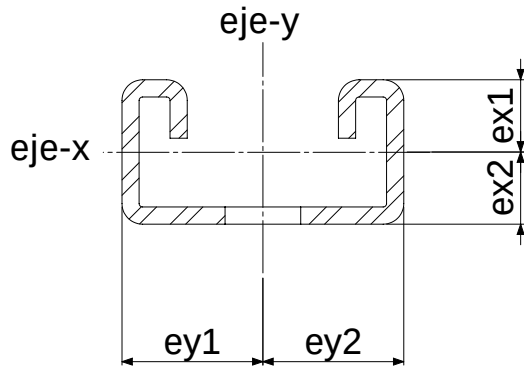
Lugar y Fecha:

Place and date:

Gandía Marzo 2009

Gandía March 2009

Departamento Técnico



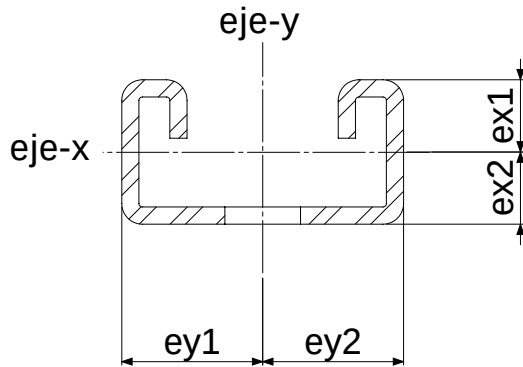
### PROFILE 41x21x1.5

|                                   |                           |
|-----------------------------------|---------------------------|
| Admissible strength               | 1.50E+08 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 8.66E-09 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 3.82E-08 m <sup>4</sup>   |
| Gross area                        | 1.60E-04 m <sup>2</sup>   |
| Net area                          | 1.44E-04 m <sup>2</sup>   |
| Radius of gyration for x axis     | 7.76E-03 m                |
| Radius of gyration for y axis     | 1.63E-02 m                |
| ex1                               | 1.09E-02 m                |
| ex2                               | 1.01E-02 m                |
| ey1                               | 2.05E-02 m                |
| ey2                               | 2.05E-02 m                |
| Section modulus x axis            | 7.92E-07 m <sup>3</sup>   |
| Section modulus y axis            | 1.86E-06 m <sup>3</sup>   |
| Maximum bending moment            | 1.19E+02 Nm               |

| Support span | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| 0.1          | 951                        | 0.07                 | 951                                                  | 951                                                  | 475                                     | 0.05                 | 475                                                   | 475                                                   | 238                        | 0.16                 | 238                                                  | 238                                                  | 718                                                   |
| 0.2          | 475                        | 0.27                 | 475                                                  | 475                                                  | 237                                     | 0.22                 | 237                                                   | 237                                                   | 119                        | 0.65                 | 119                                                  | 101                                                  | 695                                                   |
| 0.3          | 317                        | 0.61                 | 317                                                  | 317                                                  | 158                                     | 0.49                 | 158                                                   | 158                                                   | 79                         | 1.47                 | 79                                                   | 45                                                   | 637                                                   |
| 0.4          | 238                        | 1.09                 | 238                                                  | 238                                                  | 118                                     | 0.87                 | 118                                                   | 118                                                   | 59                         | 2.61                 | 45                                                   | 25                                                   | 545                                                   |
| 0.5          | 190                        | 1.70                 | 190                                                  | 155                                                  | 95                                      | 1.36                 | 95                                                    | 95                                                    | 48                         | 4.08                 | 29                                                   | 16                                                   | 453                                                   |
| 0.6          | 158                        | 2.45                 | 158                                                  | 108                                                  | 79                                      | 1.96                 | 79                                                    | 67                                                    | 40                         | 5.88                 | 20                                                   | 11                                                   | 369                                                   |
| 0.7          | 136                        | 3.34                 | 136                                                  | 79                                                   | 67                                      | 2.63                 | 67                                                    | 49                                                    | 34                         | 8.01                 | 15                                                   | 8                                                    | 302                                                   |
| 0.8          | 119                        | 4.36                 | 109                                                  | 61                                                   | 59                                      | 3.46                 | 59                                                    | 38                                                    | 30                         | 10.46                | 11                                                   | 6                                                    | -                                                     |
| 0.9          | 106                        | 5.51                 | 86                                                   | 48                                                   | 52                                      | 4.34                 | 52                                                    | 30                                                    | 26                         | 13.23                | 9                                                    | -                                                    | -                                                     |
| 1            | 95                         | 6.81                 | 70                                                   | 39                                                   | 47                                      | 5.39                 | 44                                                    | 24                                                    | 24                         | 16.34                | 7                                                    | -                                                    | -                                                     |
| 1.1          | 86                         | 8.24                 | 58                                                   | 32                                                   | 43                                      | 6.56                 | 36                                                    | 20                                                    | 22                         | 19.77                | 6                                                    | -                                                    | -                                                     |
| 1.2          | 79                         | 9.80                 | 48                                                   | 27                                                   | 39                                      | 7.72                 | 30                                                    | 17                                                    | 20                         | 23.53                | 5                                                    | -                                                    | -                                                     |
| 1.3          | 73                         | 11.50                | 41                                                   | 23                                                   | 36                                      | 9.06                 | 26                                                    | 14                                                    | 18                         | 27.61                | -                                                    | -                                                    | -                                                     |
| 1.4          | 68                         | 13.34                | 36                                                   | 20                                                   | 33                                      | 10.38                | 22                                                    | 12                                                    | 17                         | 32.02                | -                                                    | -                                                    | -                                                     |
| 1.5          | 63                         | 15.32                | 31                                                   | 17                                                   | 31                                      | 11.99                | 19                                                    | 11                                                    | 16                         | 36.76                | -                                                    | -                                                    | -                                                     |
| 1.6          | 59                         | 17.43                | 27                                                   | 15                                                   | 29                                      | 13.61                | 17                                                    | 9                                                     | 15                         | 41.82                | -                                                    | -                                                    | -                                                     |
| 1.7          | 56                         | 19.67                | 24                                                   | 13                                                   | 27                                      | 15.20                | 15                                                    | 8                                                     | 14                         | 47.22                | -                                                    | -                                                    | -                                                     |
| 1.8          | 53                         | 22.06                | 22                                                   | 12                                                   | 26                                      | 17.38                | 13                                                    | 7                                                     | 13                         | 52.93                | -                                                    | -                                                    | -                                                     |
| 1.9          | 50                         | 24.57                | 19                                                   | 11                                                   | 25                                      | 19.65                | 12                                                    | 7                                                     | 13                         | 58.98                | -                                                    | -                                                    | -                                                     |
| 2            | 48                         | 27.23                | 17                                                   | 10                                                   | 23                                      | 21.08                | 11                                                    | 6                                                     | 12                         | 65.35                | -                                                    | -                                                    | -                                                     |
| 2.1          | 45                         | 30.02                | 16                                                   | 9                                                    | 22                                      | 23.35                | 10                                                    | 5                                                     | 11                         | 72.05                | -                                                    | -                                                    | -                                                     |
| 2.2          | 43                         | 32.95                | 14                                                   | 8                                                    | 21                                      | 25.62                | 9                                                     | 5                                                     | 11                         | 79.07                | -                                                    | -                                                    | -                                                     |
| 2.3          | 41                         | 36.01                | 13                                                   | 7                                                    | 20                                      | 27.88                | 8                                                     | -                                                     | 10                         | 86.43                | -                                                    | -                                                    | -                                                     |
| 2.4          | 40                         | 39.21                | 12                                                   | 7                                                    | 19                                      | 30.10                | 8                                                     | -                                                     | 10                         | 94.11                | -                                                    | -                                                    | -                                                     |
| 2.5          | 38                         | 42.55                | 11                                                   | 6                                                    | 19                                      | 34.02                | 7                                                     | -                                                     | 10                         | 102.11               | -                                                    | -                                                    | -                                                     |
| 2.6          | 37                         | 46.02                | 10                                                   | 6                                                    | 18                                      | 36.25                | 6                                                     | -                                                     | 9                          | 110.44               | -                                                    | -                                                    | -                                                     |
| 2.7          | 35                         | 49.63                | 10                                                   | 5                                                    | 17                                      | 38.34                | 6                                                     | -                                                     | 9                          | 119.10               | -                                                    | -                                                    | -                                                     |
| 2.8          | 34                         | 53.37                | 9                                                    | -                                                    | 16                                      | 40.25                | 6                                                     | -                                                     | 8                          | 128.09               | -                                                    | -                                                    | -                                                     |
| 2.9          | 33                         | 57.25                | 8                                                    | -                                                    | 16                                      | 44.72                | 5                                                     | -                                                     | 8                          | 137.40               | -                                                    | -                                                    | -                                                     |
| 3            | 32                         | 61.27                | 8                                                    | -                                                    | 15                                      | 46.41                | -                                                     | -                                                     | 8                          | 147.04               | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed



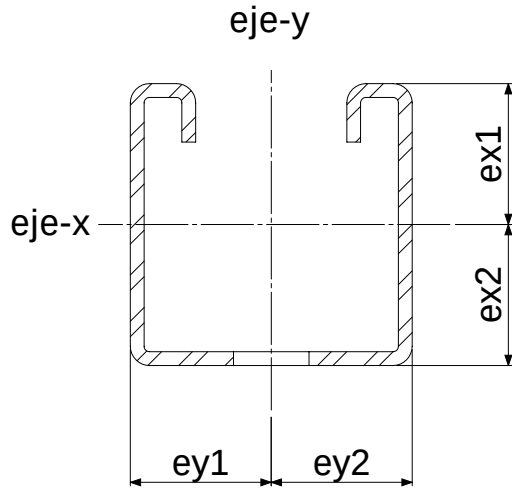


### PROFILE 41x21x2.5

|                                   |                          |
|-----------------------------------|--------------------------|
| Admissible strength               | 1.50E+8 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 1.17E-8 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 5.60E-8 m <sup>4</sup>   |
| Gross area                        | 2.46E-4 m <sup>2</sup>   |
| Net area                          | 2.14E-4 m <sup>2</sup>   |
| Radius of gyration for x axis     | 7.40E-3 m                |
| Radius of gyration for y axis     | 1.62E-2 m                |
| ex1                               | 1.09E-2 m                |
| ex2                               | 1.01E-2 m                |
| ey1                               | 2.05E-2 m                |
| ey2                               | 2.05E-2 m                |
| Section modulus x axis            | 1.08E-6 m <sup>3</sup>   |
| Section modulus y axis            | 2.73E-6 m <sup>3</sup>   |
| Maximum bending moment            | 1.61E+2 Nm               |

| Support span |                            |                      |                                                      |                                                      |                                         |                      |                                                       |                                                       |                            |                      |                                                      |                                                      |                                                       |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|              | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
| 0.1          | 1290                       | 0.07                 | 1290                                                 | 1290                                                 | 645                                     | 0.05                 | 645                                                   | 645                                                   | 323                        | 0.16                 | 323                                                  | 323                                                  | 1007                                                  |
| 0.2          | 645                        | 0.27                 | 645                                                  | 645                                                  | 322                                     | 0.22                 | 322                                                   | 322                                                   | 161                        | 0.66                 | 161                                                  | 137                                                  | 970                                                   |
| 0.3          | 430                        | 0.61                 | 430                                                  | 430                                                  | 215                                     | 0.49                 | 215                                                   | 215                                                   | 108                        | 1.48                 | 108                                                  | 62                                                   | 882                                                   |
| 0.4          | 323                        | 1.09                 | 323                                                  | 323                                                  | 161                                     | 0.87                 | 161                                                   | 161                                                   | 81                         | 2.62                 | 61                                                   | 34                                                   | 748                                                   |
| 0.5          | 258                        | 1.71                 | 258                                                  | 210                                                  | 129                                     | 1.37                 | 129                                                   | 129                                                   | 65                         | 4.10                 | 39                                                   | 22                                                   | 615                                                   |
| 0.6          | 215                        | 2.46                 | 215                                                  | 146                                                  | 107                                     | 1.96                 | 107                                                   | 91                                                    | 54                         | 5.90                 | 27                                                   | 15                                                   | 501                                                   |
| 0.7          | 184                        | 3.35                 | 184                                                  | 107                                                  | 92                                      | 2.67                 | 92                                                    | 67                                                    | 46                         | 8.03                 | 20                                                   | 11                                                   | 411                                                   |
| 0.8          | 161                        | 4.37                 | 148                                                  | 82                                                   | 80                                      | 3.47                 | 80                                                    | 51                                                    | 40                         | 10.49                | 15                                                   | 9                                                    | -                                                     |
| 0.9          | 143                        | 5.53                 | 117                                                  | 65                                                   | 71                                      | 4.39                 | 71                                                    | 40                                                    | 36                         | 13.28                | 12                                                   | 7                                                    | -                                                     |
| 1            | 129                        | 6.83                 | 94                                                   | 52                                                   | 64                                      | 5.42                 | 59                                                    | 33                                                    | 32                         | 16.40                | 10                                                   | 5                                                    | -                                                     |
| 1.1          | 117                        | 8.27                 | 78                                                   | 43                                                   | 58                                      | 6.54                 | 49                                                    | 27                                                    | 29                         | 19.84                | 8                                                    | -                                                    | -                                                     |
| 1.2          | 108                        | 9.84                 | 66                                                   | 36                                                   | 53                                      | 7.76                 | 41                                                    | 23                                                    | 27                         | 23.61                | 7                                                    | -                                                    | -                                                     |
| 1.3          | 99                         | 11.55                | 56                                                   | 31                                                   | 49                                      | 9.12                 | 35                                                    | 19                                                    | 25                         | 27.71                | 6                                                    | -                                                    | -                                                     |
| 1.4          | 92                         | 13.39                | 48                                                   | 27                                                   | 46                                      | 10.70                | 30                                                    | 17                                                    | 23                         | 32.14                | 5                                                    | -                                                    | -                                                     |
| 1.5          | 86                         | 15.37                | 42                                                   | 23                                                   | 43                                      | 12.30                | 26                                                    | 15                                                    | 22                         | 36.89                | -                                                    | -                                                    | -                                                     |
| 1.6          | 81                         | 17.49                | 37                                                   | 20                                                   | 40                                      | 13.88                | 23                                                    | 13                                                    | 20                         | 41.98                | -                                                    | -                                                    | -                                                     |
| 1.7          | 76                         | 19.75                | 33                                                   | 18                                                   | 37                                      | 15.40                | 20                                                    | 11                                                    | 19                         | 47.39                | -                                                    | -                                                    | -                                                     |
| 1.8          | 72                         | 22.14                | 29                                                   | 16                                                   | 35                                      | 17.30                | 18                                                    | 10                                                    | 18                         | 53.13                | -                                                    | -                                                    | -                                                     |
| 1.9          | 68                         | 24.66                | 26                                                   | 15                                                   | 33                                      | 19.18                | 16                                                    | 9                                                     | 17                         | 59.20                | -                                                    | -                                                    | -                                                     |
| 2            | 65                         | 27.33                | 24                                                   | 13                                                   | 32                                      | 21.69                | 15                                                    | 8                                                     | 16                         | 65.59                | -                                                    | -                                                    | -                                                     |
| 2.1          | 61                         | 30.13                | 21                                                   | 12                                                   | 30                                      | 23.54                | 13                                                    | 7                                                     | 15                         | 72.31                | -                                                    | -                                                    | -                                                     |
| 2.2          | 59                         | 33.07                | 20                                                   | 11                                                   | 29                                      | 26.17                | 12                                                    | 7                                                     | 15                         | 79.37                | -                                                    | -                                                    | -                                                     |
| 2.3          | 56                         | 36.14                | 18                                                   | 10                                                   | 28                                      | 28.87                | 11                                                    | 6                                                     | 14                         | 86.74                | -                                                    | -                                                    | -                                                     |
| 2.4          | 54                         | 39.35                | 16                                                   | 9                                                    | 26                                      | 30.46                | 10                                                    | 6                                                     | 13                         | 94.45                | -                                                    | -                                                    | -                                                     |
| 2.5          | 52                         | 42.70                | 15                                                   | 8                                                    | 25                                      | 33.10                | 9                                                     | 5                                                     | 13                         | 102.49               | -                                                    | -                                                    | -                                                     |
| 2.6          | 50                         | 46.19                | 14                                                   | 8                                                    | 24                                      | 35.74                | 9                                                     | -                                                     | 12                         | 110.85               | -                                                    | -                                                    | -                                                     |
| 2.7          | 48                         | 49.81                | 13                                                   | 7                                                    | 23                                      | 38.36                | 8                                                     | -                                                     | 12                         | 119.54               | -                                                    | -                                                    | -                                                     |
| 2.8          | 46                         | 53.57                | 12                                                   | 7                                                    | 23                                      | 42.78                | 8                                                     | -                                                     | 12                         | 128.56               | -                                                    | -                                                    | -                                                     |
| 2.9          | 44                         | 57.46                | 11                                                   | 6                                                    | 22                                      | 45.46                | 7                                                     | -                                                     | 11                         | 137.91               | -                                                    | -                                                    | -                                                     |
| 3            | 43                         | 61.49                | 10                                                   | 6                                                    | 21                                      | 48.04                | 7                                                     | -                                                     | 11                         | 147.58               | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed

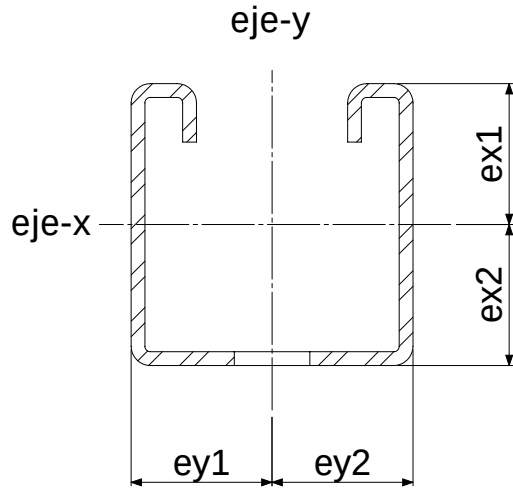


### PROFILE 41x41x1.5

|                                   |                           |
|-----------------------------------|---------------------------|
| Admissible strength               | 1.50E+08 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 4.29E-08 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 5.99E-08 m <sup>4</sup>   |
| Gross area                        | 2.15E-04 m <sup>2</sup>   |
| Net area                          | 1.95E-04 m <sup>2</sup>   |
| Radius of gyration for x axis     | 1.48E-02 m                |
| Radius of gyration for y axis     | 1.75E-02 m                |
| ex1                               | 2.05E-02 m                |
| ex2                               | 2.05E-02 m                |
| ey1                               | 2.05E-02 m                |
| ey2                               | 2.05E-02 m                |
| Section modulus x axis            | 2.09E-06 m <sup>3</sup>   |
| Section modulus y axis            | 2.92E-06 m <sup>3</sup>   |
| Maximum bending moment            | 3.14E+02 Nm               |

| Support span | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| 0.1          | 2508                       | 0.04                 | 2508                                                 | 2508                                                 | 1254                                    | 0.03                 | 1254                                                  | 1254                                                  | 627                        | 0.09                 | 627                                                  | 627                                                  | 1004                                                  |
| 0.2          | 1254                       | 0.14                 | 1254                                                 | 1254                                                 | 627                                     | 0.12                 | 627                                                   | 627                                                   | 314                        | 0.35                 | 314                                                  | 314                                                  | 997                                                   |
| 0.3          | 836                        | 0.33                 | 836                                                  | 836                                                  | 418                                     | 0.26                 | 418                                                   | 418                                                   | 209                        | 0.78                 | 209                                                  | 209                                                  | 980                                                   |
| 0.4          | 627                        | 0.58                 | 627                                                  | 627                                                  | 313                                     | 0.46                 | 313                                                   | 313                                                   | 157                        | 1.39                 | 157                                                  | 125                                                  | 958                                                   |
| 0.5          | 502                        | 0.91                 | 502                                                  | 502                                                  | 250                                     | 0.72                 | 250                                                   | 250                                                   | 125                        | 2.17                 | 125                                                  | 80                                                   | 921                                                   |
| 0.6          | 418                        | 1.30                 | 418                                                  | 418                                                  | 209                                     | 1.04                 | 209                                                   | 209                                                   | 105                        | 3.13                 | 100                                                  | 56                                                   | 870                                                   |
| 0.7          | 358                        | 1.78                 | 358                                                  | 358                                                  | 179                                     | 1.42                 | 179                                                   | 179                                                   | 90                         | 4.26                 | 74                                                   | 41                                                   | 801                                                   |
| 0.8          | 314                        | 2.32                 | 314                                                  | 300                                                  | 156                                     | 1.85                 | 156                                                   | 156                                                   | 78                         | 5.56                 | 56                                                   | 31                                                   | 731                                                   |
| 0.9          | 279                        | 2.93                 | 279                                                  | 237                                                  | 139                                     | 2.34                 | 139                                                   | 139                                                   | 70                         | 7.04                 | 45                                                   | 25                                                   | 658                                                   |
| 1            | 251                        | 3.62                 | 251                                                  | 192                                                  | 125                                     | 2.89                 | 125                                                   | 120                                                   | 63                         | 8.69                 | 36                                                   | 20                                                   | 594                                                   |
| 1.1          | 228                        | 4.38                 | 228                                                  | 159                                                  | 114                                     | 3.51                 | 114                                                   | 99                                                    | 57                         | 10.52                | 30                                                   | 17                                                   | 532                                                   |
| 1.2          | 209                        | 5.22                 | 209                                                  | 134                                                  | 104                                     | 4.15                 | 104                                                   | 83                                                    | 52                         | 12.52                | 25                                                   | 14                                                   | 480                                                   |
| 1.3          | 193                        | 6.12                 | 193                                                  | 114                                                  | 96                                      | 4.87                 | 96                                                    | 71                                                    | 48                         | 14.69                | 21                                                   | 12                                                   | 431                                                   |
| 1.4          | 179                        | 7.10                 | 177                                                  | 98                                                   | 89                                      | 5.64                 | 89                                                    | 61                                                    | 45                         | 17.04                | 18                                                   | 10                                                   | 390                                                   |
| 1.5          | 167                        | 8.15                 | 154                                                  | 85                                                   | 83                                      | 6.47                 | 83                                                    | 53                                                    | 42                         | 19.56                | 16                                                   | 9                                                    | -                                                     |
| 1.6          | 157                        | 9.27                 | 135                                                  | 75                                                   | 78                                      | 7.38                 | 78                                                    | 47                                                    | 39                         | 22.26                | 14                                                   | 8                                                    | -                                                     |
| 1.7          | 148                        | 10.47                | 120                                                  | 67                                                   | 73                                      | 8.29                 | 73                                                    | 42                                                    | 37                         | 25.13                | 12                                                   | 7                                                    | -                                                     |
| 1.8          | 139                        | 11.74                | 107                                                  | 59                                                   | 69                                      | 9.30                 | 67                                                    | 37                                                    | 35                         | 28.17                | 11                                                   | 6                                                    | -                                                     |
| 1.9          | 132                        | 13.08                | 96                                                   | 53                                                   | 66                                      | 10.46                | 60                                                    | 33                                                    | 33                         | 31.39                | 10                                                   | 6                                                    | -                                                     |
| 2            | 125                        | 14.49                | 87                                                   | 48                                                   | 62                                      | 11.46                | 54                                                    | 30                                                    | 31                         | 34.78                | 9                                                    | 5                                                    | -                                                     |
| 2.1          | 119                        | 15.98                | 78                                                   | 44                                                   | 59                                      | 12.63                | 49                                                    | 27                                                    | 30                         | 38.34                | 8                                                    | -                                                    | -                                                     |
| 2.2          | 114                        | 17.53                | 72                                                   | 40                                                   | 57                                      | 14.03                | 45                                                    | 25                                                    | 29                         | 42.08                | 7                                                    | -                                                    | -                                                     |
| 2.3          | 109                        | 19.16                | 65                                                   | 36                                                   | 54                                      | 15.18                | 41                                                    | 23                                                    | 27                         | 45.99                | 7                                                    | -                                                    | -                                                     |
| 2.4          | 105                        | 20.87                | 60                                                   | 33                                                   | 52                                      | 16.61                | 38                                                    | 21                                                    | 26                         | 50.08                | 6                                                    | -                                                    | -                                                     |
| 2.5          | 100                        | 22.64                | 55                                                   | 31                                                   | 50                                      | 18.06                | 35                                                    | 19                                                    | 25                         | 54.34                | 6                                                    | -                                                    | -                                                     |
| 2.6          | 96                         | 24.49                | 51                                                   | 28                                                   | 48                                      | 19.50                | 32                                                    | 18                                                    | 24                         | 58.78                | 5                                                    | -                                                    | -                                                     |
| 2.7          | 93                         | 26.41                | 47                                                   | 26                                                   | 46                                      | 20.93                | 30                                                    | 16                                                    | 23                         | 63.38                | -                                                    | -                                                    | -                                                     |
| 2.8          | 90                         | 28.40                | 44                                                   | 25                                                   | 44                                      | 22.32                | 28                                                    | 15                                                    | 22                         | 68.17                | -                                                    | -                                                    | -                                                     |
| 2.9          | 86                         | 30.47                | 41                                                   | 23                                                   | 43                                      | 24.24                | 26                                                    | 14                                                    | 22                         | 73.12                | -                                                    | -                                                    | -                                                     |
| 3            | 84                         | 32.61                | 38                                                   | 21                                                   | 41                                      | 25.58                | 24                                                    | 13                                                    | 21                         | 78.25                | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed

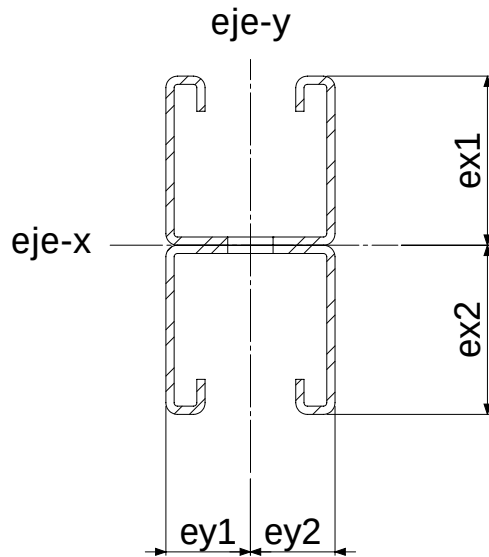


### PROFILE 41x41x2.5

|                                   |                           |
|-----------------------------------|---------------------------|
| Admissible strength               | 1.50E+08 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 6.56E-08 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 9.32E-08 m <sup>4</sup>   |
| Gross area                        | 3.46E-04 m <sup>2</sup>   |
| Net area                          | 3.13E-04 m <sup>2</sup>   |
| Radius of gyration for x axis     | 1.45E-02 m                |
| Radius of gyration for y axis     | 1.73E-02 m                |
| ex1                               | 2.07E-02 m                |
| ex2                               | 2.03E-02 m                |
| ey1                               | 2.05E-02 m                |
| ey2                               | 2.05E-02 m                |
| Section modulus x axis            | 3.16E-06 m <sup>3</sup>   |
| Section modulus y axis            | 4.54E-06 m <sup>3</sup>   |
| Maximum bending moment            | 4.74E+02 Nm               |

| Support span | Uniformly distributed load |                      |                                                      |                                                      | Point load                              |                      |                                                       |                                                       | Uniformly distributed load (cantilever) |                      |                                                      |                                                      | Max. concentrated load (kg) applied on the outer face |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|-----------------------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|              | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg)              | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 |                                                       |
| 0.1          | 3795                       | 0.04                 | 3795                                                 | 3795                                                 | 1897                                    | 0.03                 | 1897                                                  | 1897                                                  | 949                                     | 0.09                 | 949                                                  | 949                                                  | 1538                                                  |
| 0.2          | 1897                       | 0.14                 | 1897                                                 | 1897                                                 | 948                                     | 0.11                 | 948                                                   | 948                                                   | 474                                     | 0.34                 | 474                                                  | 474                                                  | 1528                                                  |
| 0.3          | 1265                       | 0.32                 | 1265                                                 | 1265                                                 | 632                                     | 0.26                 | 632                                                   | 632                                                   | 316                                     | 0.78                 | 316                                                  | 316                                                  | 1504                                                  |
| 0.4          | 949                        | 0.57                 | 949                                                  | 949                                                  | 474                                     | 0.46                 | 474                                                   | 474                                                   | 237                                     | 1.38                 | 237                                                  | 191                                                  | 1466                                                  |
| 0.5          | 759                        | 0.90                 | 759                                                  | 759                                                  | 379                                     | 0.72                 | 379                                                   | 379                                                   | 190                                     | 2.15                 | 190                                                  | 122                                                  | 1405                                                  |
| 0.6          | 632                        | 1.29                 | 632                                                  | 632                                                  | 316                                     | 1.03                 | 316                                                   | 316                                                   | 158                                     | 3.10                 | 153                                                  | 85                                                   | 1326                                                  |
| 0.7          | 542                        | 1.76                 | 542                                                  | 542                                                  | 271                                     | 1.41                 | 271                                                   | 271                                                   | 136                                     | 4.22                 | 112                                                  | 62                                                   | 1222                                                  |
| 0.8          | 474                        | 2.30                 | 474                                                  | 459                                                  | 237                                     | 1.84                 | 237                                                   | 237                                                   | 119                                     | 5.51                 | 86                                                   | 48                                                   | 1109                                                  |
| 0.9          | 422                        | 2.91                 | 422                                                  | 363                                                  | 210                                     | 2.32                 | 210                                                   | 210                                                   | 105                                     | 6.98                 | 68                                                   | 38                                                   | 1001                                                  |
| 1            | 379                        | 3.59                 | 379                                                  | 294                                                  | 189                                     | 2.86                 | 189                                                   | 184                                                   | 95                                      | 8.61                 | 55                                                   | 31                                                   | 899                                                   |
| 1.1          | 345                        | 4.34                 | 345                                                  | 243                                                  | 172                                     | 3.46                 | 172                                                   | 152                                                   | 86                                      | 10.42                | 46                                                   | 25                                                   | 806                                                   |
| 1.2          | 316                        | 5.17                 | 316                                                  | 204                                                  | 158                                     | 4.13                 | 158                                                   | 128                                                   | 79                                      | 12.40                | 38                                                   | 21                                                   | 730                                                   |
| 1.3          | 292                        | 6.07                 | 292                                                  | 174                                                  | 145                                     | 4.82                 | 145                                                   | 109                                                   | 73                                      | 14.56                | 33                                                   | 18                                                   | 657                                                   |
| 1.4          | 271                        | 7.03                 | 270                                                  | 150                                                  | 135                                     | 5.61                 | 135                                                   | 94                                                    | 68                                      | 16.88                | 28                                                   | 16                                                   | 593                                                   |
| 1.5          | 253                        | 8.08                 | 235                                                  | 131                                                  | 126                                     | 6.44                 | 126                                                   | 82                                                    | 63                                      | 19.38                | 25                                                   | 14                                                   | -                                                     |
| 1.6          | 237                        | 9.19                 | 206                                                  | 115                                                  | 118                                     | 7.31                 | 118                                                   | 72                                                    | 59                                      | 22.05                | 22                                                   | 12                                                   | -                                                     |
| 1.7          | 223                        | 10.37                | 183                                                  | 102                                                  | 111                                     | 8.25                 | 111                                                   | 64                                                    | 56                                      | 24.89                | 19                                                   | 11                                                   | -                                                     |
| 1.8          | 211                        | 11.63                | 163                                                  | 91                                                   | 105                                     | 9.27                 | 102                                                   | 57                                                    | 53                                      | 27.91                | 17                                                   | 9                                                    | -                                                     |
| 1.9          | 200                        | 12.96                | 146                                                  | 81                                                   | 99                                      | 10.28                | 92                                                    | 51                                                    | 50                                      | 31.01                | 15                                                   | 8                                                    | -                                                     |
| 2            | 190                        | 14.36                | 132                                                  | 73                                                   | 94                                      | 11.38                | 83                                                    | 46                                                    | 47                                      | 34.46                | 14                                                   | 8                                                    | -                                                     |
| 2.1          | 181                        | 15.83                | 120                                                  | 67                                                   | 90                                      | 12.61                | 75                                                    | 42                                                    | 45                                      | 37.99                | 12                                                   | 7                                                    | -                                                     |
| 2.2          | 172                        | 17.37                | 109                                                  | 61                                                   | 86                                      | 13.86                | 68                                                    | 38                                                    | 43                                      | 41.69                | 11                                                   | 6                                                    | -                                                     |
| 2.3          | 165                        | 18.99                | 100                                                  | 56                                                   | 82                                      | 15.01                | 62                                                    | 35                                                    | 41                                      | 45.57                | 10                                                   | 6                                                    | -                                                     |
| 2.4          | 158                        | 20.67                | 92                                                   | 51                                                   | 79                                      | 16.53                | 57                                                    | 32                                                    | 40                                      | 49.62                | 10                                                   | 5                                                    | -                                                     |
| 2.5          | 152                        | 22.43                | 85                                                   | 47                                                   | 75                                      | 17.73                | 53                                                    | 29                                                    | 38                                      | 53.84                | 9                                                    | -                                                    | -                                                     |
| 2.6          | 146                        | 24.26                | 78                                                   | 43                                                   | 72                                      | 19.15                | 49                                                    | 27                                                    | 37                                      | 58.23                | 8                                                    | -                                                    | -                                                     |
| 2.7          | 141                        | 26.17                | 73                                                   | 40                                                   | 70                                      | 20.85                | 45                                                    | 25                                                    | 35                                      | 62.80                | 8                                                    | -                                                    | -                                                     |
| 2.8          | 136                        | 28.14                | 67                                                   | 37                                                   | 67                                      | 22.26                | 42                                                    | 23                                                    | 34                                      | 67.53                | 7                                                    | -                                                    | -                                                     |
| 2.9          | 131                        | 30.19                | 63                                                   | 35                                                   | 65                                      | 23.99                | 39                                                    | 22                                                    | 33                                      | 72.45                | 7                                                    | -                                                    | -                                                     |
| 3            | 126                        | 32.30                | 59                                                   | 33                                                   | 63                                      | 25.74                | 37                                                    | 20                                                    | 32                                      | 77.53                | 6                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed



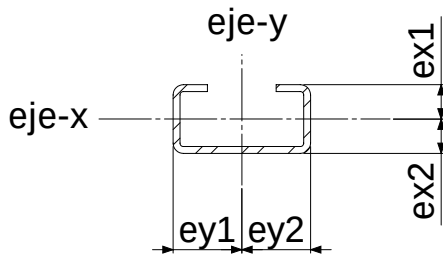
## PROFILE 41x82x2.5

|                                   |                        |
|-----------------------------------|------------------------|
| Admissible strength               | 1.50E+8 N/m²           |
| Moment of inertia, I <sub>x</sub> | 3.89E-7 m <sup>4</sup> |
| Moment of inertia, I <sub>y</sub> | 1.87E-7 m <sup>4</sup> |
| Gross area                        | 6.92E-4 m <sup>2</sup> |
| Net area                          | 6.37E-4 m <sup>2</sup> |
| Radius of gyration for x axis     | 2.47E-2 m              |
| Radius of gyration for y axis     | 1.71E-2 m              |
| ex1                               | 4.10E-2 m              |
| ex2                               | 4.10E-2 m              |
| ey1                               | 2.05E-2 m              |
| ey2                               | 2.05E-2 m              |
| Section modulus x axis            | 9.49E-6 m <sup>3</sup> |
| Section modulus y axis            | 9.11E-6 m <sup>3</sup> |
| Maximum bending moment*           | 1.42E+3 Nm             |

| Support span | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| 0.1          | 11384                      | 0.02                 | 11384                                                | 11384                                                | 5691                                    | 0.01                 | 5691                                                  | 5691                                                  | 2846                       | 0.04                 | 2846                                                 | 2846                                                 | 2546                                                  |
| 0.2          | 5692                       | 0.07                 | 5692                                                 | 5692                                                 | 2845                                    | 0.06                 | 2845                                                  | 2845                                                  | 1423                       | 0.17                 | 1423                                                 | 1423                                                 | 2533                                                  |
| 0.3          | 3795                       | 0.16                 | 3795                                                 | 3795                                                 | 1897                                    | 0.13                 | 1897                                                  | 1897                                                  | 949                        | 0.39                 | 949                                                  | 949                                                  | 2513                                                  |
| 0.4          | 2846                       | 0.29                 | 2846                                                 | 2846                                                 | 1422                                    | 0.23                 | 1422                                                  | 1422                                                  | 711                        | 0.70                 | 711                                                  | 711                                                  | 2487                                                  |
| 0.5          | 2277                       | 0.45                 | 2277                                                 | 2277                                                 | 1138                                    | 0.36                 | 1138                                                  | 1138                                                  | 569                        | 1.09                 | 569                                                  | 569                                                  | 2436                                                  |
| 0.6          | 1897                       | 0.65                 | 1897                                                 | 1897                                                 | 948                                     | 0.52                 | 948                                                   | 948                                                   | 474                        | 1.57                 | 474                                                  | 474                                                  | 2358                                                  |
| 0.7          | 1626                       | 0.89                 | 1626                                                 | 1626                                                 | 813                                     | 0.71                 | 813                                                   | 813                                                   | 407                        | 2.13                 | 407                                                  | 370                                                  | 2263                                                  |
| 0.8          | 1423                       | 1.16                 | 1423                                                 | 1423                                                 | 711                                     | 0.93                 | 711                                                   | 711                                                   | 356                        | 2.79                 | 356                                                  | 284                                                  | 2137                                                  |
| 0.9          | 1265                       | 1.47                 | 1265                                                 | 1265                                                 | 632                                     | 1.18                 | 632                                                   | 632                                                   | 316                        | 3.53                 | 316                                                  | 224                                                  | 1998                                                  |
| 1            | 1138                       | 1.81                 | 1138                                                 | 1138                                                 | 569                                     | 1.45                 | 569                                                   | 569                                                   | 285                        | 4.36                 | 285                                                  | 182                                                  | 1866                                                  |
| 1.1          | 1035                       | 2.20                 | 1035                                                 | 1035                                                 | 517                                     | 1.76                 | 517                                                   | 517                                                   | 259                        | 5.27                 | 259                                                  | 150                                                  | 1728                                                  |
| 1.2          | 949                        | 2.61                 | 949                                                  | 949                                                  | 474                                     | 2.09                 | 474                                                   | 474                                                   | 237                        | 6.27                 | 227                                                  | 126                                                  | 1592                                                  |
| 1.3          | 876                        | 3.07                 | 876                                                  | 876                                                  | 437                                     | 2.45                 | 437                                                   | 437                                                   | 219                        | 7.36                 | 193                                                  | 107                                                  | 1477                                                  |
| 1.4          | 813                        | 3.56                 | 813                                                  | 813                                                  | 406                                     | 2.84                 | 406                                                   | 406                                                   | 203                        | 8.54                 | 167                                                  | 93                                                   | 1359                                                  |
| 1.5          | 759                        | 4.08                 | 759                                                  | 759                                                  | 379                                     | 3.26                 | 379                                                   | 379                                                   | 190                        | 9.80                 | 145                                                  | 81                                                   | 1252                                                  |
| 1.6          | 711                        | 4.65                 | 711                                                  | 681                                                  | 355                                     | 3.71                 | 355                                                   | 355                                                   | 178                        | 11.15                | 128                                                  | 71                                                   | 1154                                                  |
| 1.7          | 670                        | 5.24                 | 670                                                  | 603                                                  | 334                                     | 4.19                 | 334                                                   | 334                                                   | 167                        | 12.59                | 113                                                  | 63                                                   | 1073                                                  |
| 1.8          | 632                        | 5.88                 | 632                                                  | 538                                                  | 316                                     | 4.70                 | 316                                                   | 316                                                   | 158                        | 14.11                | 101                                                  | 56                                                   | -                                                     |
| 1.9          | 599                        | 6.55                 | 599                                                  | 483                                                  | 299                                     | 5.23                 | 299                                                   | 299                                                   | 150                        | 15.72                | 91                                                   | 50                                                   | -                                                     |
| 2            | 569                        | 7.26                 | 569                                                  | 436                                                  | 284                                     | 5.80                 | 284                                                   | 272                                                   | 142                        | 17.42                | 82                                                   | 45                                                   | -                                                     |
| 2.1          | 542                        | 8.00                 | 542                                                  | 395                                                  | 271                                     | 6.40                 | 271                                                   | 247                                                   | 136                        | 19.21                | 74                                                   | 41                                                   | -                                                     |
| 2.2          | 517                        | 8.78                 | 517                                                  | 360                                                  | 258                                     | 7.01                 | 258                                                   | 225                                                   | 129                        | 21.08                | 68                                                   | 38                                                   | -                                                     |
| 2.3          | 495                        | 9.60                 | 495                                                  | 329                                                  | 247                                     | 7.67                 | 247                                                   | 206                                                   | 124                        | 23.04                | 62                                                   | 34                                                   | -                                                     |
| 2.4          | 474                        | 10.45                | 474                                                  | 303                                                  | 237                                     | 8.36                 | 237                                                   | 189                                                   | 119                        | 25.09                | 57                                                   | 32                                                   | -                                                     |
| 2.5          | 455                        | 11.34                | 455                                                  | 279                                                  | 227                                     | 9.05                 | 227                                                   | 174                                                   | 114                        | 27.22                | 52                                                   | 29                                                   | -                                                     |
| 2.6          | 438                        | 12.27                | 438                                                  | 258                                                  | 218                                     | 9.77                 | 218                                                   | 161                                                   | 109                        | 29.44                | 48                                                   | 27                                                   | -                                                     |
| 2.7          | 422                        | 13.23                | 422                                                  | 239                                                  | 210                                     | 10.54                | 210                                                   | 149                                                   | 105                        | 31.75                | 45                                                   | 25                                                   | -                                                     |
| 2.8          | 407                        | 14.23                | 400                                                  | 222                                                  | 203                                     | 11.37                | 203                                                   | 139                                                   | 102                        | 34.15                | 42                                                   | 23                                                   | -                                                     |
| 2.9          | 393                        | 15.26                | 373                                                  | 207                                                  | 196                                     | 12.19                | 196                                                   | 129                                                   | 98                         | 36.63                | 39                                                   | 22                                                   | -                                                     |
| 3            | 379                        | 16.33                | 348                                                  | 194                                                  | 189                                     | 13.02                | 189                                                   | 121                                                   | 95                         | 39.20                | 36                                                   | 20                                                   | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed

\* Load information for the profile's regular work axis (x axis).

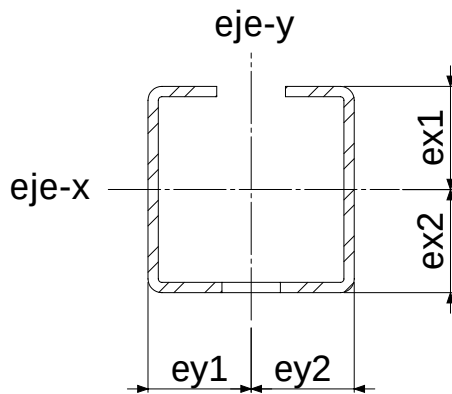


### CT 20x10x1

|                                   |                           |
|-----------------------------------|---------------------------|
| Admissible strength               | 1.50E+08 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 4.82E-10 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 2.48E-09 m <sup>4</sup>   |
| Gross area                        | 4.43E-05 m <sup>2</sup>   |
| Net area                          | 3.58E-05 m <sup>2</sup>   |
| Radius of gyration for x axis     | 3.67E-03 m                |
| Radius of gyration for y axis     | 8.33E-03 m                |
| ex1                               | 5.19E-03 m                |
| ex2                               | 4.81E-03 m                |
| ey1                               | 1.00E-02 m                |
| ey2                               | 1.00E-02 m                |
| Section modulus x axis            | 9.29E-08 m <sup>3</sup>   |
| Section modulus y axis            | 2.48E-07 m <sup>3</sup>   |
| Maximum bending moment            | 1.39E+01 Nm               |

| Support span |                            |                      |                                                      |                                                      |                                         |                      |                                                       |                                                       |                            |                      |                                                      |                                                      |                                                       |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|              | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
| 0.1          | 112                        | 0.14                 | 112                                                  | 112                                                  | 55                                      | 0.11                 | 55                                                    | 55                                                    | 28                         | 0.34                 | 28                                                   | 23                                                   | 171                                                   |
| 0.2          | 56                         | 0.57                 | 56                                                   | 54                                                   | 27                                      | 0.44                 | 27                                                    | 27                                                    | 14                         | 1.38                 | 10                                                   | 6                                                    | 130                                                   |
| 0.3          | 37                         | 1.29                 | 37                                                   | 24                                                   | 18                                      | 1.00                 | 18                                                    | 15                                                    | 9                          | 3.01                 | -                                                    | -                                                    | 85                                                    |
| 0.4          | 28                         | 2.29                 | 24                                                   | 14                                                   | 13                                      | 1.71                 | 13                                                    | 8                                                     | 7                          | 5.51                 | -                                                    | -                                                    | -                                                     |
| 0.5          | 22                         | 3.58                 | 16                                                   | 9                                                    | 11                                      | 2.83                 | 10                                                    | 5                                                     | 6                          | 8.60                 | -                                                    | -                                                    | -                                                     |
| 0.6          | 19                         | 5.16                 | 11                                                   | 6                                                    | 9                                       | 4.00                 | 7                                                     | -                                                     | 5                          | 12.39                | -                                                    | -                                                    | -                                                     |
| 0.7          | 16                         | 7.02                 | 8                                                    | -                                                    | 7                                       | 4.94                 | -                                                     | -                                                     | 4                          | 16.86                | -                                                    | -                                                    | -                                                     |
| 0.8          | 14                         | 9.18                 | 6                                                    | -                                                    | 6                                       | 6.32                 | -                                                     | -                                                     | 3                          | 22.02                | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed



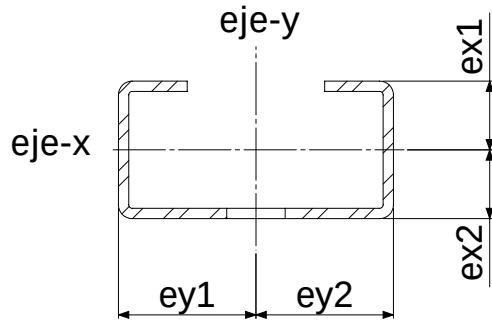
### CT 30x30x1.5

|                               |              |
|-------------------------------|--------------|
| Admissible strength           | 1.50E+8 N/m² |
| Moment of inertia, Ix         | 1.41E-8 m4   |
| Moment of inertia, Iy         | 2.17E-8 m4   |
| Gross area                    | 1.53E-4 m2   |
| Net area                      | 1.28E-4 m2   |
| Radius of gyration for x axis | 1.05E-2 m    |
| Radius of gyration for y axis | 1.30E-2 m    |
| ex1                           | 1.34E-2 m    |
| ex2                           | 1.66E-2 m    |
| ey1                           | 1.50E-2 m    |
| ey2                           | 1.50E-2 m    |
| Section modulus x axis        | 8.51E-7 m3   |
| Section modulus y axis        | 1.45E-6 m3   |
| Maximum bending moment        | 1.28E+2 Nm   |

| Support span |                            |                      |                                                      |                                                      |                                         |                      |                                                       |                                                       |                            |                      |                                                      |                                                      |                                                       |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|              | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
| 0.1          | 1022                       | 1                    | 1022                                                 | 1022                                                 | 510                                     | 1                    | 510                                                   | 510                                                   | 255                        | 1                    | 255                                                  | 255                                                  | 550                                                   |
| 0.2          | 511                        | 1                    | 511                                                  | 511                                                  | 255                                     | 1                    | 255                                                   | 255                                                   | 128                        | 1                    | 128                                                  | 128                                                  | 540                                                   |
| 0.3          | 341                        | 1                    | 341                                                  | 341                                                  | 170                                     | 1                    | 170                                                   | 170                                                   | 85                         | 1                    | 85                                                   | 73                                                   | 524                                                   |
| 0.4          | 255                        | 1                    | 255                                                  | 255                                                  | 127                                     | 1                    | 127                                                   | 127                                                   | 64                         | 2                    | 64                                                   | 41                                                   | 494                                                   |
| 0.5          | 204                        | 2                    | 204                                                  | 204                                                  | 102                                     | 1                    | 102                                                   | 102                                                   | 51                         | 3                    | 48                                                   | 26                                                   | 450                                                   |
| 0.6          | 170                        | 2                    | 170                                                  | 170                                                  | 85                                      | 2                    | 85                                                    | 85                                                    | 43                         | 4                    | 33                                                   | 18                                                   | 401                                                   |
| 0.7          | 146                        | 3                    | 146                                                  | 129                                                  | 72                                      | 2                    | 72                                                    | 72                                                    | 37                         | 6                    | 24                                                   | 14                                                   | 351                                                   |
| 0.8          | 128                        | 3                    | 128                                                  | 99                                                   | 63                                      | 3                    | 63                                                    | 62                                                    | 32                         | 7                    | 19                                                   | 10                                                   | 307                                                   |
| 0.9          | 114                        | 4                    | 114                                                  | 78                                                   | 56                                      | 3                    | 56                                                    | 49                                                    | 28                         | 9                    | 15                                                   | 8                                                    | 268                                                   |
| 1            | 102                        | 5                    | 102                                                  | 63                                                   | 51                                      | 4                    | 51                                                    | 40                                                    | 26                         | 11                   | 12                                                   | 7                                                    | 234                                                   |
| 1.1          | 93                         | 6                    | 93                                                   | 52                                                   | 46                                      | 5                    | 46                                                    | 33                                                    | 23                         | 14                   | 10                                                   | 5                                                    | -                                                     |
| 1.2          | 85                         | 7                    | 79                                                   | 44                                                   | 42                                      | 6                    | 42                                                    | 28                                                    | 21                         | 16                   | 8                                                    | -                                                    | -                                                     |
| 1.3          | 79                         | 8                    | 67                                                   | 37                                                   | 39                                      | 7                    | 39                                                    | 23                                                    | 20                         | 19                   | 7                                                    | -                                                    | -                                                     |
| 1.4          | 73                         | 9                    | 58                                                   | 32                                                   | 36                                      | 7                    | 36                                                    | 20                                                    | 18                         | 22                   | 6                                                    | -                                                    | -                                                     |
| 1.5          | 68                         | 11                   | 51                                                   | 28                                                   | 34                                      | 9                    | 32                                                    | 18                                                    | 17                         | 25                   | 5                                                    | -                                                    | -                                                     |
| 1.6          | 64                         | 12                   | 45                                                   | 25                                                   | 31                                      | 9                    | 28                                                    | 15                                                    | 16                         | 28                   | -                                                    | -                                                    | -                                                     |
| 1.7          | 60                         | 13                   | 39                                                   | 22                                                   | 30                                      | 11                   | 25                                                    | 14                                                    | 15                         | 32                   | -                                                    | -                                                    | -                                                     |
| 1.8          | 57                         | 15                   | 35                                                   | 20                                                   | 28                                      | 12                   | 22                                                    | 12                                                    | 14                         | 35                   | -                                                    | -                                                    | -                                                     |
| 1.9          | 54                         | 17                   | 32                                                   | 18                                                   | 26                                      | 13                   | 20                                                    | 11                                                    | 13                         | 39                   | -                                                    | -                                                    | -                                                     |
| 2            | 51                         | 18                   | 29                                                   | 16                                                   | 25                                      | 15                   | 18                                                    | 10                                                    | 13                         | 44                   | -                                                    | -                                                    | -                                                     |
| 2.1          | 49                         | 20                   | 26                                                   | 14                                                   | 24                                      | 16                   | 16                                                    | 9                                                     | 12                         | 48                   | -                                                    | -                                                    | -                                                     |
| 2.2          | 46                         | 22                   | 24                                                   | 13                                                   | 23                                      | 18                   | 15                                                    | 8                                                     | 12                         | 53                   | -                                                    | -                                                    | -                                                     |
| 2.3          | 44                         | 24                   | 22                                                   | 12                                                   | 22                                      | 19                   | 14                                                    | 8                                                     | 11                         | 57                   | -                                                    | -                                                    | -                                                     |
| 2.4          | 43                         | 26                   | 20                                                   | 11                                                   | 21                                      | 21                   | 12                                                    | 7                                                     | 11                         | 62                   | -                                                    | -                                                    | -                                                     |
| 2.5          | 41                         | 29                   | 18                                                   | 10                                                   | 20                                      | 22                   | 11                                                    | 6                                                     | 10                         | 68                   | -                                                    | -                                                    | -                                                     |
| 2.6          | 39                         | 31                   | 17                                                   | 9                                                    | 19                                      | 24                   | 11                                                    | 6                                                     | 10                         | 73                   | -                                                    | -                                                    | -                                                     |
| 2.7          | 38                         | 33                   | 16                                                   | 9                                                    | 18                                      | 25                   | 10                                                    | 5                                                     | 10                         | 79                   | -                                                    | -                                                    | -                                                     |
| 2.8          | 37                         | 36                   | 15                                                   | 8                                                    | 18                                      | 28                   | 9                                                     | 5                                                     | 9                          | 85                   | -                                                    | -                                                    | -                                                     |
| 2.9          | 35                         | 38                   | 14                                                   | 8                                                    | 17                                      | 30                   | 9                                                     | -                                                     | 9                          | 91                   | -                                                    | -                                                    | -                                                     |
| 3            | 34                         | 41                   | 13                                                   | 7                                                    | 17                                      | 33                   | 8                                                     | -                                                     | 9                          | 97                   | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed



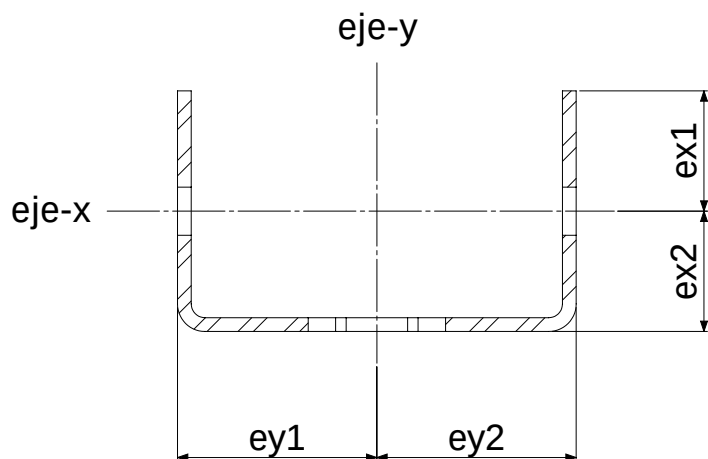


### CT 40x20x1.5

|                                   |                           |
|-----------------------------------|---------------------------|
| Admissible strength               | 1.50E+08 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 7.23E-09 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 3.21E-08 m <sup>4</sup>   |
| Gross area                        | 1.36E-04 m <sup>2</sup>   |
| Net area                          | 1.24E-04 m <sup>2</sup>   |
| Radius of gyration for x axis     | 7.64E-03 m                |
| Radius of gyration for y axis     | 1.61E-02 m                |
| ex1                               | 1.13E-02 m                |
| ex2                               | 8.71E-03 m                |
| ey1                               | 2.00E-02 m                |
| ey2                               | 2.00E-02 m                |
| Section modulus x axis            | 6.40E-07 m <sup>3</sup>   |
| Section modulus y axis            | 1.60E-06 m <sup>3</sup>   |
| Maximum bending moment            | 9.60E+01 Nm               |

| Support span |                            |                      |                                                      |                                                      |                                         |                      |                                                       |                                                       |                            |                      |                                                      |                                                      |                                                       |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|              | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
| 0.1          | 768                        | 0.07                 | 768                                                  | 768                                                  | 384                                     | 0.05                 | 384                                                   | 384                                                   | 192                        | 0.16                 | 192                                                  | 192                                                  | 580                                                   |
| 0.2          | 384                        | 0.26                 | 384                                                  | 384                                                  | 192                                     | 0.21                 | 192                                                   | 192                                                   | 96                         | 0.63                 | 96                                                   | 84                                                   | 560                                                   |
| 0.3          | 256                        | 0.59                 | 256                                                  | 256                                                  | 128                                     | 0.47                 | 128                                                   | 128                                                   | 64                         | 1.42                 | 64                                                   | 37                                                   | 515                                                   |
| 0.4          | 192                        | 1.05                 | 192                                                  | 192                                                  | 96                                      | 0.84                 | 96                                                    | 96                                                    | 48                         | 2.53                 | 38                                                   | 21                                                   | 444                                                   |
| 0.5          | 154                        | 1.65                 | 154                                                  | 129                                                  | 76                                      | 1.30                 | 76                                                    | 76                                                    | 38                         | 3.95                 | 24                                                   | 13                                                   | 368                                                   |
| 0.6          | 128                        | 2.37                 | 128                                                  | 90                                                   | 64                                      | 1.90                 | 64                                                    | 56                                                    | 32                         | 5.69                 | 17                                                   | 9                                                    | 300                                                   |
| 0.7          | 110                        | 3.23                 | 110                                                  | 66                                                   | 54                                      | 2.54                 | 54                                                    | 41                                                    | 27                         | 7.75                 | 12                                                   | 7                                                    | 248                                                   |
| 0.8          | 96                         | 4.22                 | 91                                                   | 51                                                   | 48                                      | 3.37                 | 48                                                    | 32                                                    | 24                         | 10.12                | 9                                                    | 5                                                    | -                                                     |
| 0.9          | 85                         | 5.34                 | 72                                                   | 40                                                   | 42                                      | 4.20                 | 42                                                    | 25                                                    | 21                         | 12.81                | 7                                                    | -                                                    | -                                                     |
| 1            | 77                         | 6.59                 | 58                                                   | 32                                                   | 38                                      | 5.22                 | 36                                                    | 20                                                    | 19                         | 15.82                | 6                                                    | -                                                    | -                                                     |
| 1.1          | 70                         | 7.97                 | 48                                                   | 27                                                   | 34                                      | 6.21                 | 30                                                    | 17                                                    | 17                         | 19.14                | 5                                                    | -                                                    | -                                                     |
| 1.2          | 64                         | 9.49                 | 40                                                   | 22                                                   | 32                                      | 7.59                 | 25                                                    | 14                                                    | 16                         | 22.78                | -                                                    | -                                                    | -                                                     |
| 1.3          | 59                         | 11.14                | 34                                                   | 19                                                   | 29                                      | 8.75                 | 22                                                    | 12                                                    | 15                         | 26.73                | -                                                    | -                                                    | -                                                     |
| 1.4          | 55                         | 12.92                | 30                                                   | 17                                                   | 27                                      | 10.17                | 19                                                    | 10                                                    | 14                         | 31.00                | -                                                    | -                                                    | -                                                     |
| 1.5          | 51                         | 14.83                | 26                                                   | 14                                                   | 25                                      | 11.58                | 16                                                    | 9                                                     | 13                         | 35.59                | -                                                    | -                                                    | -                                                     |
| 1.6          | 48                         | 16.87                | 23                                                   | 13                                                   | 24                                      | 13.50                | 14                                                    | 8                                                     | 12                         | 40.49                | -                                                    | -                                                    | -                                                     |
| 1.7          | 45                         | 19.05                | 20                                                   | 11                                                   | 22                                      | 14.84                | 13                                                    | 7                                                     | 11                         | 45.71                | -                                                    | -                                                    | -                                                     |
| 1.8          | 43                         | 21.35                | 18                                                   | 10                                                   | 21                                      | 16.81                | 11                                                    | 6                                                     | 11                         | 51.25                | -                                                    | -                                                    | -                                                     |
| 1.9          | 40                         | 23.79                | 16                                                   | 9                                                    | 20                                      | 18.83                | 10                                                    | 6                                                     | 10                         | 57.01                | -                                                    | -                                                    | -                                                     |
| 2            | 38                         | 26.36                | 15                                                   | 8                                                    | 19                                      | 20.87                | 9                                                     | 5                                                     | 10                         | 63.27                | -                                                    | -                                                    | -                                                     |
| 2.1          | 37                         | 29.06                | 13                                                   | 7                                                    | 18                                      | 22.89                | 8                                                     | -                                                     | 9                          | 69.75                | -                                                    | -                                                    | -                                                     |
| 2.2          | 35                         | 31.90                | 12                                                   | 7                                                    | 17                                      | 24.85                | 8                                                     | -                                                     | 9                          | 76.55                | -                                                    | -                                                    | -                                                     |
| 2.3          | 33                         | 34.86                | 11                                                   | 6                                                    | 16                                      | 26.73                | 7                                                     | -                                                     | 8                          | 83.67                | -                                                    | -                                                    | -                                                     |
| 2.4          | 32                         | 37.96                | 10                                                   | 6                                                    | 16                                      | 30.37                | 6                                                     | -                                                     | 8                          | 91.10                | -                                                    | -                                                    | -                                                     |
| 2.5          | 31                         | 41.19                | 9                                                    | 5                                                    | 15                                      | 32.18                | 6                                                     | -                                                     | 8                          | 98.85                | -                                                    | -                                                    | -                                                     |
| 2.6          | 30                         | 44.55                | 9                                                    | -                                                    | 14                                      | 33.78                | 5                                                     | -                                                     | 7                          | 106.92               | -                                                    | -                                                    | -                                                     |
| 2.7          | 28                         | 48.04                | 8                                                    | -                                                    | 14                                      | 37.83                | -                                                     | -                                                     | 7                          | 115.30               | -                                                    | -                                                    | -                                                     |
| 2.8          | 27                         | 51.67                | 7                                                    | -                                                    | 13                                      | 39.18                | -                                                     | -                                                     | 7                          | 124.00               | -                                                    | -                                                    | -                                                     |
| 2.9          | 26                         | 55.42                | 7                                                    | -                                                    | 13                                      | 43.53                | -                                                     | -                                                     | 7                          | 133.02               | -                                                    | -                                                    | -                                                     |
| 3            | 26                         | 59.31                | 6                                                    | -                                                    | 12                                      | 44.48                | -                                                     | -                                                     | 6                          | 142.35               | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed

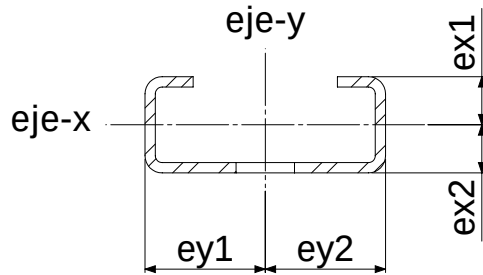


## PC PROFILE

|                                   |                           |
|-----------------------------------|---------------------------|
| Admissible strength               | 1.50E+08 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 2.53E-08 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 1.10E-07 m <sup>4</sup>   |
| Gross area                        | 2.45E-04 m <sup>2</sup>   |
| Net area                          | 1.76E-04 m <sup>2</sup>   |
| Radius of gyration for x axis     | 1.20E-02 m                |
| Radius of gyration for y axis     | 2.50E-02 m                |
| ex1                               | 2.35E-02 m                |
| ex2                               | 1.15E-02 m                |
| ey1                               | 2.90E-02 m                |
| ey2                               | 2.90E-02 m                |
| Section modulus x axis            | 1.08E-06 m <sup>3</sup>   |
| Section modulus y axis            | 3.79E-06 m <sup>3</sup>   |
| Maximum bending moment            | 1.61E+02 Nm               |

| Support span | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| 0.1          | 1291                       | 0.03                 | 1291                                                 | 1291                                                 | 645                                     | 0.03                 | 645                                                   | 645                                                   | 323                        | 0.08                 | 323                                                  | 323                                                  | 544                                                   |
| 0.2          | 646                        | 0.13                 | 646                                                  | 646                                                  | 322                                     | 0.10                 | 322                                                   | 322                                                   | 161                        | 0.30                 | 161                                                  | 161                                                  | 540                                                   |
| 0.3          | 430                        | 0.28                 | 430                                                  | 430                                                  | 215                                     | 0.23                 | 215                                                   | 215                                                   | 108                        | 0.68                 | 108                                                  | 108                                                  | 532                                                   |
| 0.4          | 323                        | 0.51                 | 323                                                  | 323                                                  | 161                                     | 0.40                 | 161                                                   | 161                                                   | 81                         | 1.21                 | 81                                                   | 74                                                   | 518                                                   |
| 0.5          | 258                        | 0.79                 | 258                                                  | 258                                                  | 129                                     | 0.63                 | 129                                                   | 129                                                   | 65                         | 1.90                 | 65                                                   | 47                                                   | 492                                                   |
| 0.6          | 215                        | 1.14                 | 215                                                  | 215                                                  | 107                                     | 0.91                 | 107                                                   | 107                                                   | 54                         | 2.73                 | 54                                                   | 33                                                   | 461                                                   |
| 0.7          | 184                        | 1.55                 | 184                                                  | 184                                                  | 92                                      | 1.24                 | 92                                                    | 92                                                    | 46                         | 3.72                 | 43                                                   | 24                                                   | 424                                                   |
| 0.8          | 161                        | 2.02                 | 161                                                  | 161                                                  | 80                                      | 1.61                 | 80                                                    | 80                                                    | 40                         | 4.86                 | 33                                                   | 18                                                   | 387                                                   |
| 0.9          | 143                        | 2.56                 | 143                                                  | 140                                                  | 71                                      | 2.03                 | 71                                                    | 71                                                    | 36                         | 6.15                 | 26                                                   | 15                                                   | 353                                                   |
| 1            | 129                        | 3.16                 | 129                                                  | 113                                                  | 64                                      | 2.51                 | 64                                                    | 64                                                    | 32                         | 7.59                 | 21                                                   | 12                                                   | 319                                                   |
| 1.1          | 117                        | 3.83                 | 117                                                  | 94                                                   | 58                                      | 3.03                 | 58                                                    | 58                                                    | 29                         | 9.19                 | 18                                                   | 10                                                   | 288                                                   |
| 1.2          | 108                        | 4.55                 | 108                                                  | 79                                                   | 53                                      | 3.59                 | 53                                                    | 49                                                    | 27                         | 10.93                | 15                                                   | 8                                                    | 262                                                   |
| 1.3          | 99                         | 5.35                 | 99                                                   | 67                                                   | 49                                      | 4.22                 | 49                                                    | 42                                                    | 25                         | 12.83                | 13                                                   | 7                                                    | -                                                     |
| 1.4          | 92                         | 6.20                 | 92                                                   | 58                                                   | 46                                      | 4.95                 | 46                                                    | 36                                                    | 23                         | 14.88                | 11                                                   | 6                                                    | -                                                     |
| 1.5          | 86                         | 7.12                 | 86                                                   | 50                                                   | 43                                      | 5.69                 | 43                                                    | 31                                                    | 22                         | 17.08                | 9                                                    | 5                                                    | -                                                     |
| 1.6          | 81                         | 8.01                 | 80                                                   | 44                                                   | 40                                      | 6.42                 | 40                                                    | 28                                                    | 20                         | 19.43                | 8                                                    | -                                                    | -                                                     |
| 1.7          | 76                         | 9.14                 | 71                                                   | 39                                                   | 37                                      | 7.12                 | 37                                                    | 25                                                    | 19                         | 21.94                | 7                                                    | -                                                    | -                                                     |
| 1.8          | 72                         | 10.25                | 63                                                   | 35                                                   | 35                                      | 8.00                 | 35                                                    | 22                                                    | 18                         | 24.60                | 7                                                    | -                                                    | -                                                     |
| 1.9          | 68                         | 11.42                | 57                                                   | 31                                                   | 33                                      | 8.87                 | 33                                                    | 20                                                    | 17                         | 27.40                | 6                                                    | -                                                    | -                                                     |
| 2            | 65                         | 12.65                | 51                                                   | 28                                                   | 32                                      | 10.03                | 32                                                    | 18                                                    | 16                         | 30.36                | 5                                                    | -                                                    | -                                                     |
| 2.1          | 61                         | 13.95                | 46                                                   | 26                                                   | 30                                      | 10.89                | 29                                                    | 16                                                    | 15                         | 33.48                | -                                                    | -                                                    | -                                                     |
| 2.2          | 59                         | 15.31                | 42                                                   | 23                                                   | 29                                      | 12.10                | 26                                                    | 15                                                    | 15                         | 36.74                | -                                                    | -                                                    | -                                                     |
| 2.3          | 56                         | 16.73                | 39                                                   | 21                                                   | 28                                      | 13.35                | 24                                                    | 13                                                    | 14                         | 40.16                | -                                                    | -                                                    | -                                                     |
| 2.4          | 54                         | 18.22                | 35                                                   | 20                                                   | 26                                      | 14.09                | 22                                                    | 12                                                    | 13                         | 43.73                | -                                                    | -                                                    | -                                                     |
| 2.5          | 52                         | 19.77                | 33                                                   | 18                                                   | 25                                      | 15.31                | 20                                                    | 11                                                    | 13                         | 47.45                | -                                                    | -                                                    | -                                                     |
| 2.6          | 50                         | 21.38                | 30                                                   | 17                                                   | 24                                      | 16.53                | 19                                                    | 10                                                    | 12                         | 51.32                | -                                                    | -                                                    | -                                                     |
| 2.7          | 48                         | 23.06                | 28                                                   | 16                                                   | 23                                      | 17.74                | 17                                                    | 10                                                    | 12                         | 55.34                | -                                                    | -                                                    | -                                                     |
| 2.8          | 46                         | 24.80                | 26                                                   | 14                                                   | 23                                      | 19.79                | 16                                                    | 9                                                     | 12                         | 59.52                | -                                                    | -                                                    | -                                                     |
| 2.9          | 45                         | 26.60                | 24                                                   | 13                                                   | 22                                      | 21.03                | 15                                                    | 8                                                     | 11                         | 63.84                | -                                                    | -                                                    | -                                                     |
| 3            | 43                         | 28.47                | 23                                                   | 13                                                   | 21                                      | 22.22                | 14                                                    | 8                                                     | 11                         | 68.32                | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed

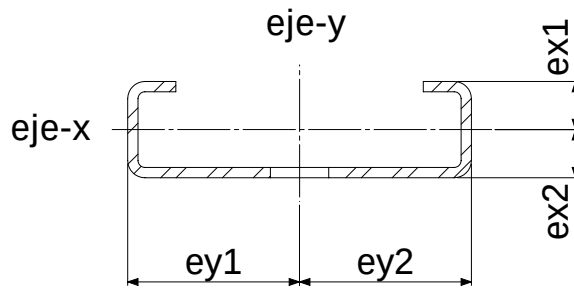


## RA 35x14x1.5

|                                   |                          |
|-----------------------------------|--------------------------|
| Admissible strength               | 1.50E+8 N/m <sup>2</sup> |
| Moment of inertia, I <sub>x</sub> | 2.83E-9 m <sup>4</sup>   |
| Moment of inertia, I <sub>y</sub> | 1.82E-8 m <sup>4</sup>   |
| Gross area                        | 9.82E-5 m <sup>2</sup>   |
| Net area                          | 1.11E-4 m <sup>2</sup>   |
| Radius of gyration for x axis     | 5.05E-3 m                |
| Radius of gyration for y axis     | 1.28E-2 m                |
| ex1                               | 6.38E-3 m                |
| ex2                               | 7.62E-3 m                |
| ey1                               | 1.75E-2 m                |
| ey2                               | 1.75E-2 m                |
| Section modulus x axis            | 3.72E-7 m <sup>3</sup>   |
| Section modulus y axis            | 1.04E-6 m <sup>3</sup>   |
| Maximum bending moment            | 5.58E+1 Nm               |

| Support span |                            |                      |                                                      |                                                      |                                         |                      |                                                       |                                                       |                            |                      |                                                      |                                                      |                                                       |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|              | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
| 0.1          | 446                        | 1                    | 446                                                  | 446                                                  | 223                                     | 1                    | 223                                                   | 223                                                   | 112                        | 1                    | 112                                                  | 112                                                  | 499                                                   |
| 0.2          | 223                        | 1                    | 223                                                  | 223                                                  | 111                                     | 1                    | 111                                                   | 111                                                   | 56                         | 1                    | 56                                                   | 33                                                   | 448                                                   |
| 0.3          | 149                        | 1                    | 149                                                  | 141                                                  | 74                                      | 1                    | 74                                                    | 74                                                    | 37                         | 3                    | 26                                                   | 15                                                   | 354                                                   |
| 0.4          | 112                        | 2                    | 112                                                  | 79                                                   | 55                                      | 2                    | 55                                                    | 50                                                    | 28                         | 4                    | 15                                                   | 8                                                    | 264                                                   |
| 0.5          | 89                         | 3                    | 89                                                   | 51                                                   | 44                                      | 2                    | 44                                                    | 32                                                    | 22                         | 6                    | 10                                                   | 5                                                    | 199                                                   |
| 0.6          | 74                         | 4                    | 64                                                   | 35                                                   | 37                                      | 3                    | 37                                                    | 22                                                    | 19                         | 9                    | 7                                                    | -                                                    | -                                                     |
| 0.7          | 64                         | 5                    | 47                                                   | 26                                                   | 31                                      | 4                    | 29                                                    | 16                                                    | 16                         | 12                   | -                                                    | -                                                    | -                                                     |
| 0.8          | 56                         | 7                    | 36                                                   | 20                                                   | 27                                      | 5                    | 22                                                    | 12                                                    | 14                         | 15                   | -                                                    | -                                                    | -                                                     |
| 0.9          | 50                         | 8                    | 28                                                   | 16                                                   | 24                                      | 7                    | 18                                                    | 10                                                    | 12                         | 19                   | -                                                    | -                                                    | -                                                     |
| 1            | 45                         | 10                   | 23                                                   | 13                                                   | 22                                      | 8                    | 14                                                    | 8                                                     | 11                         | 24                   | -                                                    | -                                                    | -                                                     |
| 1.1          | 41                         | 12                   | 19                                                   | 11                                                   | 20                                      | 10                   | 12                                                    | 7                                                     | 10                         | 29                   | -                                                    | -                                                    | -                                                     |
| 1.2          | 37                         | 15                   | 16                                                   | 9                                                    | 18                                      | 11                   | 10                                                    | 6                                                     | 9                          | 34                   | -                                                    | -                                                    | -                                                     |
| 1.3          | 34                         | 17                   | 14                                                   | 8                                                    | 17                                      | 14                   | 8                                                     | -                                                     | 9                          | 40                   | -                                                    | -                                                    | -                                                     |
| 1.4          | 32                         | 20                   | 12                                                   | 7                                                    | 15                                      | 15                   | 7                                                     | -                                                     | 8                          | 46                   | -                                                    | -                                                    | -                                                     |
| 1.5          | 30                         | 22                   | 10                                                   | 6                                                    | 14                                      | 17                   | 6                                                     | -                                                     | 7                          | 53                   | -                                                    | -                                                    | -                                                     |
| 1.6          | 28                         | 25                   | 9                                                    | -                                                    | 13                                      | 19                   | 6                                                     | -                                                     | 7                          | 60                   | -                                                    | -                                                    | -                                                     |
| 1.7          | 26                         | 29                   | 8                                                    | -                                                    | 13                                      | 23                   | -                                                     | -                                                     | 7                          | 68                   | -                                                    | -                                                    | -                                                     |
| 1.8          | 25                         | 32                   | 7                                                    | -                                                    | 12                                      | 25                   | -                                                     | -                                                     | 6                          | 76                   | -                                                    | -                                                    | -                                                     |
| 1.9          | 24                         | 36                   | 6                                                    | -                                                    | 11                                      | 27                   | -                                                     | -                                                     | 6                          | 85                   | -                                                    | -                                                    | -                                                     |
| 2            | 22                         | 40                   | 6                                                    | -                                                    | 11                                      | 31                   | -                                                     | -                                                     | 6                          | 94                   | -                                                    | -                                                    | -                                                     |
| 2.1          | 21                         | 44                   | 5                                                    | -                                                    | 10                                      | 33                   | -                                                     | -                                                     | 5                          | 104                  | -                                                    | -                                                    | -                                                     |
| 2.2          | 20                         | 48                   | -                                                    | -                                                    | 10                                      | 38                   | -                                                     | -                                                     | 5                          | 114                  | -                                                    | -                                                    | -                                                     |
| 2.3          | 19                         | 52                   | -                                                    | -                                                    | 9                                       | 39                   | -                                                     | -                                                     | 5                          | 124                  | -                                                    | -                                                    | -                                                     |
| 2.4          | 19                         | 57                   | -                                                    | -                                                    | 9                                       | 44                   | -                                                     | -                                                     | 5                          | 135                  | -                                                    | -                                                    | -                                                     |
| 2.5          | 18                         | 62                   | -                                                    | -                                                    | 8                                       | 44                   | -                                                     | -                                                     | 5                          | 147                  | -                                                    | -                                                    | -                                                     |
| 2.6          | 17                         | 67                   | -                                                    | -                                                    | 8                                       | 50                   | -                                                     | -                                                     | 4                          | 159                  | -                                                    | -                                                    | -                                                     |
| 2.7          | 17                         | 72                   | -                                                    | -                                                    | 8                                       | 56                   | -                                                     | -                                                     | 4                          | 171                  | -                                                    | -                                                    | -                                                     |
| 2.8          | 16                         | 77                   | -                                                    | -                                                    | 7                                       | 54                   | -                                                     | -                                                     | 4                          | 184                  | -                                                    | -                                                    | -                                                     |
| 2.9          | 15                         | 83                   | -                                                    | -                                                    | 7                                       | 60                   | -                                                     | -                                                     | 4                          | 198                  | -                                                    | -                                                    | -                                                     |
| 3            | 15                         | 88                   | -                                                    | -                                                    | 7                                       | 67                   | -                                                     | -                                                     | 4                          | 211                  | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed

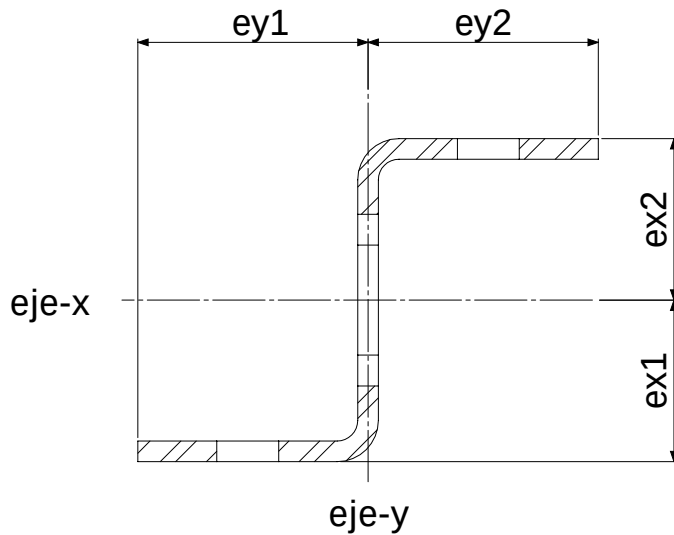


### RA 50x14x1.5

|                               |               |
|-------------------------------|---------------|
| Admissible strength           | 1.50E+08 N/m² |
| Moment of inertia, Ix         | 3.42E-09 m4   |
| Moment of inertia, Iy         | 4.45E-08 m4   |
| Gross area                    | 1.33E-04 m2   |
| Net area                      | 1.21E-04 m2   |
| Radius of gyration for x axis | 5.32E-03 m    |
| Radius of gyration for y axis | 1.92E-02 m    |
| ex1                           | 9.11E-03 m    |
| ex2                           | 4.89E-03 m    |
| ey1                           | 2.50E-02 m    |
| ey2                           | 2.50E-02 m    |
| Section modulus x axis        | 3.75E-07 m3   |
| Section modulus y axis        | 1.78E-06 m3   |
| Maximum bending moment        | 5.63E+01 Nm   |

| Support span |                            |                      |                                                      |                                                      |                                         |                      |                                                       |                                                       |                            |                      |                                                      |                                                      |                                                       |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
|              | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
| 0.1          | 450                        | 0.08                 | 450                                                  | 450                                                  | 225                                     | 0.07                 | 225                                                   | 225                                                   | 113                        | 0.20                 | 113                                                  | 113                                                  | 454                                                   |
| 0.2          | 225                        | 0.33                 | 225                                                  | 225                                                  | 112                                     | 0.26                 | 112                                                   | 112                                                   | 56                         | 0.78                 | 56                                                   | 40                                                   | 421                                                   |
| 0.3          | 150                        | 0.74                 | 150                                                  | 150                                                  | 75                                      | 0.59                 | 75                                                    | 75                                                    | 38                         | 1.76                 | 32                                                   | 18                                                   | 350                                                   |
| 0.4          | 113                        | 1.31                 | 113                                                  | 96                                                   | 56                                      | 1.04                 | 56                                                    | 56                                                    | 28                         | 3.14                 | 18                                                   | 10                                                   | 274                                                   |
| 0.5          | 90                         | 2.04                 | 90                                                   | 61                                                   | 45                                      | 1.63                 | 45                                                    | 38                                                    | 23                         | 4.90                 | 11                                                   | 6                                                    | 214                                                   |
| 0.6          | 75                         | 2.94                 | 75                                                   | 43                                                   | 37                                      | 2.32                 | 37                                                    | 27                                                    | 19                         | 7.06                 | 8                                                    | -                                                    | -                                                     |
| 0.7          | 64                         | 4.00                 | 56                                                   | 31                                                   | 32                                      | 3.19                 | 32                                                    | 20                                                    | 16                         | 9.60                 | 6                                                    | -                                                    | -                                                     |
| 0.8          | 56                         | 5.23                 | 43                                                   | 24                                                   | 28                                      | 4.16                 | 27                                                    | 15                                                    | 14                         | 12.55                | -                                                    | -                                                    | -                                                     |
| 0.9          | 50                         | 6.62                 | 34                                                   | 19                                                   | 25                                      | 5.29                 | 21                                                    | 12                                                    | 13                         | 15.88                | -                                                    | -                                                    | -                                                     |
| 1            | 45                         | 8.17                 | 28                                                   | 15                                                   | 22                                      | 6.39                 | 17                                                    | 10                                                    | 11                         | 19.60                | -                                                    | -                                                    | -                                                     |
| 1.1          | 41                         | 9.88                 | 23                                                   | 13                                                   | 20                                      | 7.73                 | 14                                                    | 8                                                     | 10                         | 23.72                | -                                                    | -                                                    | -                                                     |
| 1.2          | 38                         | 11.76                | 19                                                   | 11                                                   | 18                                      | 9.03                 | 12                                                    | 7                                                     | 9                          | 28.23                | -                                                    | -                                                    | -                                                     |
| 1.3          | 35                         | 13.80                | 16                                                   | 9                                                    | 17                                      | 10.84                | 10                                                    | 6                                                     | 9                          | 33.13                | -                                                    | -                                                    | -                                                     |
| 1.4          | 32                         | 16.01                | 14                                                   | 8                                                    | 16                                      | 12.75                | 9                                                     | -                                                     | 8                          | 38.42                | -                                                    | -                                                    | -                                                     |
| 1.5          | 30                         | 18.38                | 12                                                   | 7                                                    | 15                                      | 14.70                | 8                                                     | -                                                     | 8                          | 44.10                | -                                                    | -                                                    | -                                                     |
| 1.6          | 28                         | 20.91                | 11                                                   | 6                                                    | 14                                      | 16.65                | 7                                                     | -                                                     | 7                          | 50.18                | -                                                    | -                                                    | -                                                     |
| 1.7          | 26                         | 23.60                | 10                                                   | 5                                                    | 13                                      | 18.54                | 6                                                     | -                                                     | 7                          | 56.65                | -                                                    | -                                                    | -                                                     |
| 1.8          | 25                         | 26.46                | 9                                                    | -                                                    | 12                                      | 20.32                | 5                                                     | -                                                     | 6                          | 63.51                | -                                                    | -                                                    | -                                                     |
| 1.9          | 24                         | 29.48                | 8                                                    | -                                                    | 11                                      | 21.90                | -                                                     | -                                                     | 6                          | 70.76                | -                                                    | -                                                    | -                                                     |
| 2            | 23                         | 32.67                | 7                                                    | -                                                    | 11                                      | 25.55                | -                                                     | -                                                     | 6                          | 78.41                | -                                                    | -                                                    | -                                                     |
| 2.1          | 21                         | 36.02                | 6                                                    | -                                                    | 10                                      | 26.89                | -                                                     | -                                                     | 5                          | 86.44                | -                                                    | -                                                    | -                                                     |
| 2.2          | 20                         | 39.53                | 6                                                    | -                                                    | 10                                      | 30.91                | -                                                     | -                                                     | 5                          | 94.87                | -                                                    | -                                                    | -                                                     |
| 2.3          | 20                         | 43.21                | 5                                                    | -                                                    | 9                                       | 31.79                | -                                                     | -                                                     | 5                          | 103.69               | -                                                    | -                                                    | -                                                     |
| 2.4          | 19                         | 47.04                | -                                                    | -                                                    | 9                                       | 36.12                | -                                                     | -                                                     | 5                          | 112.91               | -                                                    | -                                                    | -                                                     |
| 2.5          | 18                         | 51.05                | -                                                    | -                                                    | 9                                       | 40.83                | -                                                     | -                                                     | 5                          | 122.51               | -                                                    | -                                                    | -                                                     |
| 2.6          | 17                         | 55.21                | -                                                    | -                                                    | 8                                       | 40.82                | -                                                     | -                                                     | 4                          | 132.51               | -                                                    | -                                                    | -                                                     |
| 2.7          | 17                         | 59.54                | -                                                    | -                                                    | 8                                       | 45.71                | -                                                     | -                                                     | 4                          | 142.90               | -                                                    | -                                                    | -                                                     |
| 2.8          | 16                         | 64.03                | -                                                    | -                                                    | 8                                       | 50.98                | -                                                     | -                                                     | 4                          | 153.68               | -                                                    | -                                                    | -                                                     |
| 2.9          | 16                         | 68.69                | -                                                    | -                                                    | 7                                       | 49.56                | -                                                     | -                                                     | 4                          | 164.85               | -                                                    | -                                                    | -                                                     |
| 3            | 15                         | 73.51                | -                                                    | -                                                    | 7                                       | 54.87                | -                                                     | -                                                     | 4                          | 176.42               | -                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed



## PROFILE Z

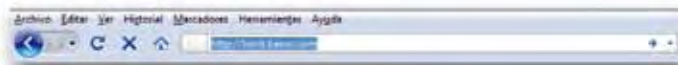
|                               |                           |
|-------------------------------|---------------------------|
| Admissible strength           | 1.50E+08 N/m <sup>2</sup> |
| Moment of inertia, $I_x$      | 8.59E-08 m <sup>4</sup>   |
| Moment of inertia, $I_y$      | 5.83E-08 m <sup>4</sup>   |
| Gross area                    | 3.30E-04 m <sup>2</sup>   |
| Net area                      | 1.98E-04 m <sup>2</sup>   |
| Radius of gyration for x axis | 2.08E-02 m                |
| Radius of gyration for y axis | 1.72E-02 m                |
| $ex1$                         | 2.35E-02 m                |
| $ex2$                         | 2.35E-02 m                |
| $ey1$                         | 3.35E-02 m                |
| $ey2$                         | 3.35E-02 m                |
| Section modulus x axis        | 3.65E-06 m <sup>3</sup>   |
| Section modulus y axis        | 1.74E-06 m <sup>3</sup>   |
| Maximum bending moment*       | 5.48E+02 Nm               |

| Support span | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load near center (kg) | Max. deflection (mm) | Max. concentrated load (kg) for a deflection of L/200 | Max. concentrated load (kg) for a deflection of L/360 | Max. distributed load (kg) | Max. deflection (mm) | Max. distributed load (kg) for a deflection of L/200 | Max. distributed load (kg) for a deflection of L/360 | Max. concentrated load (kg) applied on the outer face |
|--------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|----------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------|----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| 0.1          | 4385                       | 1                    | 4385                                                 | 4385                                                 | 2192                                    | 1                    | 2192                                                  | 2192                                                  | 1096                       | 1                    | 1096                                                 | 1096                                                 | 618                                                   |
| 0.2          | 2193                       | 1                    | 2193                                                 | 2193                                                 | 1096                                    | 1                    | 1096                                                  | 1096                                                  | 548                        | 1                    | 548                                                  | 548                                                  | 615                                                   |
| 0.3          | 1462                       | 1                    | 1462                                                 | 1462                                                 | 730                                     | 1                    | 730                                                   | 730                                                   | 365                        | 1                    | 365                                                  | 365                                                  | 611                                                   |
| 0.4          | 1096                       | 1                    | 1096                                                 | 1096                                                 | 548                                     | 1                    | 548                                                   | 548                                                   | 274                        | 2                    | 274                                                  | 250                                                  | 606                                                   |
| 0.5          | 877                        | 1                    | 877                                                  | 877                                                  | 438                                     | 1                    | 438                                                   | 438                                                   | 219                        | 2                    | 219                                                  | 160                                                  | 596                                                   |
| 0.6          | 731                        | 2                    | 731                                                  | 731                                                  | 365                                     | 1                    | 365                                                   | 365                                                   | 183                        | 3                    | 183                                                  | 111                                                  | 582                                                   |
| 0.7          | 626                        | 2                    | 626                                                  | 626                                                  | 313                                     | 2                    | 313                                                   | 313                                                   | 157                        | 4                    | 147                                                  | 82                                                   | 563                                                   |
| 0.8          | 548                        | 3                    | 548                                                  | 548                                                  | 274                                     | 2                    | 274                                                   | 274                                                   | 137                        | 5                    | 113                                                  | 63                                                   | 537                                                   |
| 0.9          | 487                        | 3                    | 487                                                  | 475                                                  | 243                                     | 3                    | 243                                                   | 243                                                   | 122                        | 7                    | 89                                                   | 49                                                   | 511                                                   |
| 1            | 439                        | 4                    | 439                                                  | 385                                                  | 219                                     | 3                    | 219                                                   | 219                                                   | 110                        | 8                    | 72                                                   | 40                                                   | 481                                                   |
| 1.1          | 399                        | 4                    | 399                                                  | 318                                                  | 199                                     | 4                    | 199                                                   | 199                                                   | 100                        | 10                   | 60                                                   | 33                                                   | 451                                                   |
| 1.2          | 365                        | 5                    | 365                                                  | 267                                                  | 182                                     | 4                    | 182                                                   | 167                                                   | 91                         | 11                   | 50                                                   | 28                                                   | 423                                                   |
| 1.3          | 337                        | 6                    | 337                                                  | 228                                                  | 168                                     | 5                    | 168                                                   | 142                                                   | 84                         | 13                   | 43                                                   | 24                                                   | 395                                                   |
| 1.4          | 313                        | 7                    | 313                                                  | 196                                                  | 156                                     | 5                    | 156                                                   | 123                                                   | 78                         | 15                   | 37                                                   | 20                                                   | 367                                                   |
| 1.5          | 292                        | 8                    | 292                                                  | 171                                                  | 146                                     | 6                    | 146                                                   | 107                                                   | 73                         | 18                   | 32                                                   | 18                                                   | 344                                                   |
| 1.6          | 274                        | 9                    | 271                                                  | 150                                                  | 137                                     | 7                    | 137                                                   | 94                                                    | 69                         | 20                   | 28                                                   | 16                                                   | 320                                                   |
| 1.7          | 258                        | 10                   | 240                                                  | 133                                                  | 128                                     | 8                    | 128                                                   | 83                                                    | 64                         | 22                   | 25                                                   | 14                                                   | 298                                                   |
| 1.8          | 244                        | 11                   | 214                                                  | 119                                                  | 121                                     | 9                    | 121                                                   | 74                                                    | 61                         | 25                   | 22                                                   | 12                                                   | -                                                     |
| 1.9          | 231                        | 12                   | 192                                                  | 107                                                  | 115                                     | 10                   | 115                                                   | 67                                                    | 58                         | 28                   | 20                                                   | 11                                                   | -                                                     |
| 2            | 219                        | 13                   | 173                                                  | 96                                                   | 109                                     | 11                   | 108                                                   | 60                                                    | 55                         | 31                   | 18                                                   | 10                                                   | -                                                     |
| 2.1          | 209                        | 14                   | 157                                                  | 87                                                   | 104                                     | 12                   | 98                                                    | 55                                                    | 52                         | 34                   | 16                                                   | 9                                                    | -                                                     |
| 2.2          | 199                        | 16                   | 143                                                  | 79                                                   | 99                                      | 13                   | 89                                                    | 50                                                    | 50                         | 37                   | 15                                                   | 8                                                    | -                                                     |
| 2.3          | 191                        | 17                   | 131                                                  | 73                                                   | 95                                      | 14                   | 82                                                    | 45                                                    | 48                         | 41                   | 14                                                   | 8                                                    | -                                                     |
| 2.4          | 183                        | 19                   | 120                                                  | 67                                                   | 91                                      | 15                   | 75                                                    | 42                                                    | 46                         | 44                   | 13                                                   | 7                                                    | -                                                     |
| 2.5          | 175                        | 20                   | 111                                                  | 62                                                   | 87                                      | 16                   | 69                                                    | 38                                                    | 44                         | 48                   | 12                                                   | 6                                                    | -                                                     |
| 2.6          | 169                        | 22                   | 102                                                  | 57                                                   | 84                                      | 18                   | 64                                                    | 36                                                    | 42                         | 52                   | 11                                                   | 6                                                    | -                                                     |
| 2.7          | 162                        | 24                   | 95                                                   | 53                                                   | 81                                      | 19                   | 59                                                    | 33                                                    | 41                         | 56                   | 10                                                   | 5                                                    | -                                                     |
| 2.8          | 157                        | 25                   | 88                                                   | 49                                                   | 78                                      | 20                   | 55                                                    | 31                                                    | 39                         | 60                   | 9                                                    | 5                                                    | -                                                     |
| 2.9          | 151                        | 27                   | 82                                                   | 46                                                   | 75                                      | 22                   | 51                                                    | 29                                                    | 38                         | 64                   | 9                                                    | -                                                    | -                                                     |
| 3            | 146                        | 29                   | 77                                                   | 43                                                   | 73                                      | 23                   | 48                                                    | 27                                                    | 37                         | 69                   | 8                                                    | -                                                    | -                                                     |

NOTE: In cantilever case, concentrated load on the edge is considered 38% of the distributed

\* Load information for the profile's regular work axis (x axis).

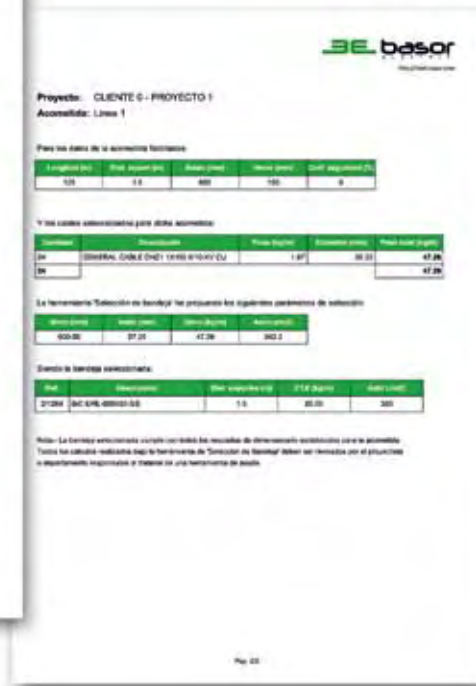
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