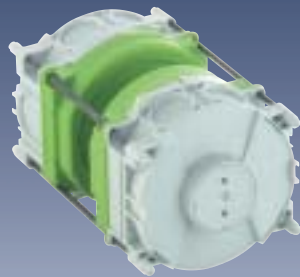
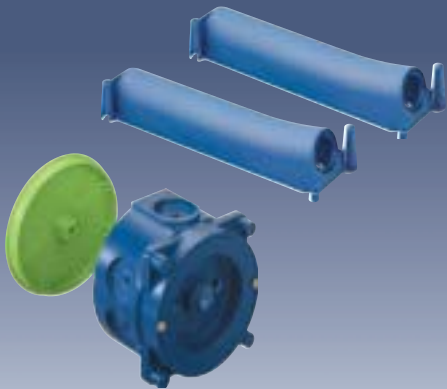




spelsberg

IBT IBTronic

Stable as concrete...



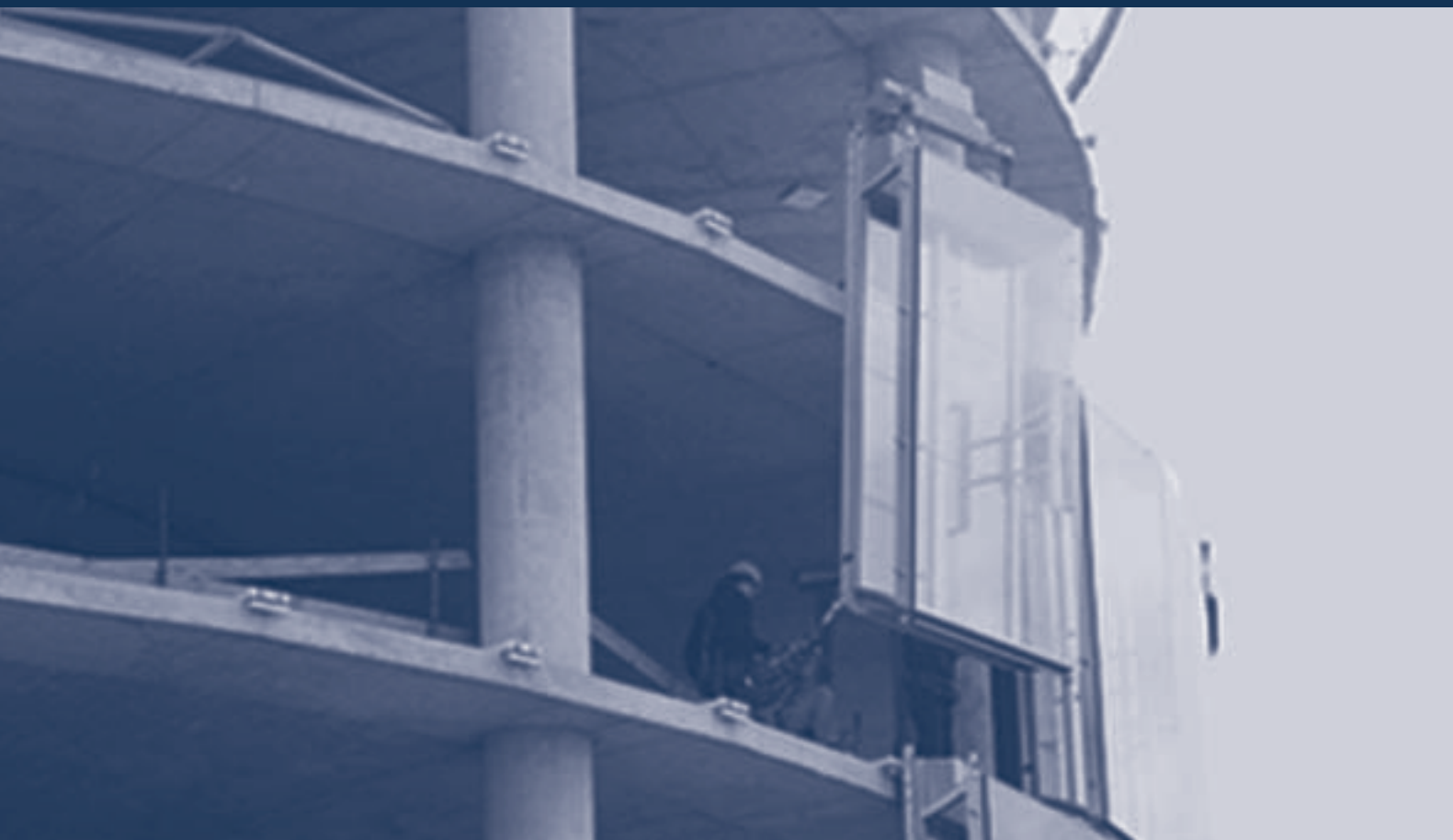
Contents



■ Introduction	Page	2-3	
■ Site cast concrete	Page	4-5	
■ Pre-cast parts construction	Page	6-7	
■ IBTronic introduction NEW	Page	8-9	
■ New products	Page	10-11	New Produkts
■ Assembly and installation	Page	12-13	
■ IBT support spar technique	Page	14-15	
■ Wall, ceiling transfers	Page	16-21	
■ IBT system	Page	22-37	
■ Export versions	Page	38-40	
■ Accessories	Page	41-49	
■ IBTronic system NEW	Page	50-55	
■ Technical information	Page	56-73	
■ Pricelist	Page	74-75	Pricelist
■ Service	Page	76-80	Service



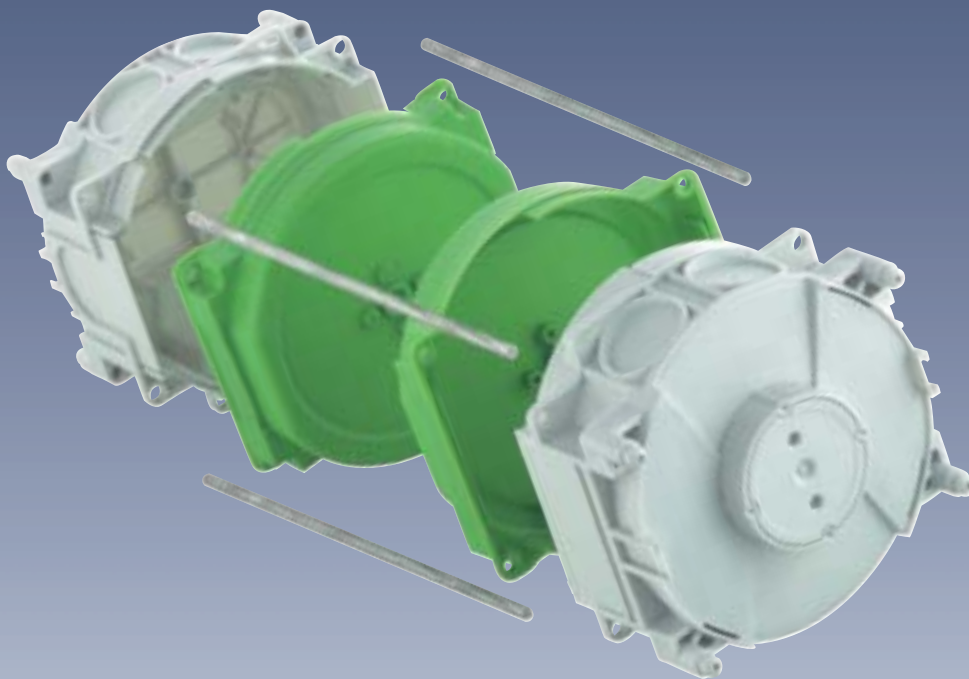
Electrical installation in concrete structures



Concrete is gaining more and more supporters because the material is very versatile in use, reduces construction time and lowers costs. Concrete long ago lost its grey, sad image and it is increasingly developing into a design element. In concrete construction there is a distinction between two manufacturing processes: site cast concrete and large panel construction. With site cast concrete, formwork is set up on the building site into which liquid

concrete is poured. With large panel construction, wall and ceiling elements are industrially prefabricated. Here the concrete is cast in vertical or horizontal formwork installations. The right accessories play an important role so that high grade technology, such as is found a more and more frequently in concrete walls and ceilings in functional buildings, can be optimally accommodated. Equipment and ceiling boxes, junction boxes and other installation components have to be fixed to the formwork before the actual concreting process, in order

to be cast in. Spelsberg has supplemented its tried-and-tested IBT range with a new housing series: IBTronic, as its name would lead you to suppose, makes it possible for halogen and LED luminaires, loud-speakers and also high quality electronics such as e.g. EIB components and transformers, to be hidden comfortably and conveniently in the concrete ceiling. Different shapes are available which are ideally suitable not only for pre-cast components but also for site cast concrete.



General advantages of the IBT range

- For site cast concrete and pre-cast component construction
- For horizontal and vertical formwork in the area of walls and ceilings
- Security due to patented support spar technique
- System for opposing formwork
- Particularly high stability
- Good sealing due to patented diaphragm system without special grommets etc.
- High temperature resistance
- Halogen-free material
- IBT system with limitless variety of models
- Simple assembly
- Good thermal insulation
- Good soundproofing
- Certified security

Thanks to the patented support spar technique the housing can be inserted equally well in horizontal and vertical formwork. The spars hold the box in the right position during pouring even under extreme pressure from the concrete. The IBTronic boxes are distinguished by their particularly high stability and strength, as customers already know from the IBT series. There is no fear either of leakage or changes in position whilst pouring. The particularly high resistance to leaks

is achieved by a patented diaphragm system. After inserting the conduit the diaphragm returns to its original position and provides strain relief and sealing without any further accessory components.

IBTronic also holds many advantages for the factory manufacture of concrete components: the smooth front can easily be stuck to the formwork. The high thermal stability of the material guarantees that the housing will retain its shape. **IBT and IBTronic - as stable as concrete.**





Flexible in use...

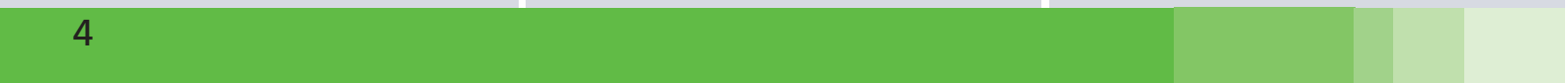


Site cast concrete:

Site cast concrete is transported to the construction site by vehicles or mixed in situ. It is put into place there as fresh concrete which then cures.

Site cast concrete is necessary, for example, where large components and surfaces areas are being produced. For building e.g. a basement wall, formwork is erected on the foundations or foundation slab and the fresh concrete is poured in and compacted.

After curing, the formwork is removed and the basement wall is finished.



ELECTRICAL INSTALLATION SITE CAST CONCRETE



◀ Receptacles can be combined without using tools. Patented support spar technique makes secure, stable fitting possible for any wall thickness.

Site cast concrete

- Electrical installation possible on the site of the building project
- Suitable for vertical and horizontal formwork
- Short construction time
- High efficiency
- Requirement: mechanical stability especially when pouring the concrete



Perfect logistics...



Building with pre-cast sections:

In pre-cast sectional structures the ceiling sections are manufactured in modern pre-cast component factories. They are delivered from the manufacturing plant directly to the building site. The high-level of pre-finish makes for short installation times. In addition the manufacturing of the concrete within the factory, in temperature-controlled halls independent of the weather, and its

compaction in modern plant, ensures a consistently high level of quality. The computerised planning, static load calculations, reinforcement and design of the large area ceiling sections allow manufacturing precisely to the required dimensions and load-bearing capacity. Built-in components, e.g. for the power supply, recesses, insulators and connecting reinforcements are already inserted. When using ceilings made of pre-cast concrete components, there is no need for

formwork or reinforcement work. To connect the precast components into one uniform ceiling requires joint grouting or a surface layer of concrete depending on the ceiling system. After grouting the ceiling is ready to paint, doing away with the costs of plastering or ceiling panels.

▼ The boxes can be fixed onto the formwork whilst still in the concrete factory.



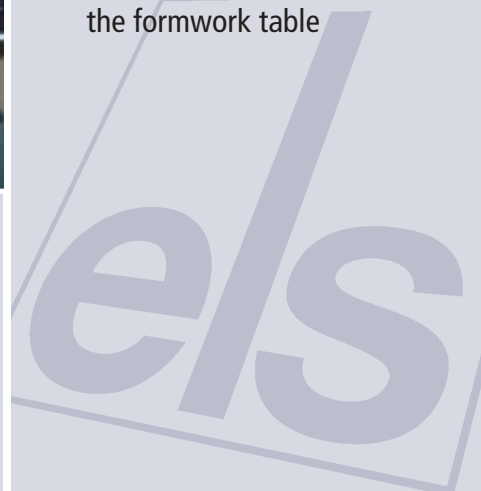
► When constructing with large panels the wall and ceiling elements are made in the concrete factory in an industrial production process. In this the boxes are fixed to the formwork with an adhesive gun. The types: **U 71 K**, **U 86 K** and **U 120 K** and also all **IBTronic** and **IBTronic-TT** versions provide a particularly large contact area due to their completely flat face and thus achieve a high level of security. Filigree ceilings are only cast to part of the finished ceiling thickness.



In these the boxes are still protruding from the pre-cast components and are frequently only fitted with installation conduits on the building site. After this concrete is poured in up to the full ceiling thickness.

Pre-cast component construction

- Series manufacture of wall and ceiling elements in the concrete factory
- Electrical installation with clearly calculable costs
- Boxes with flat front suitable for gluing in place
- Flexibility thanks to 3-piece boxes for pallet rotating plant
- Special boxes for filigree ceilings
- Conduit ferrules for conduit transfer
- Requirements:
Secure positioning, even when compacting the concrete, and high thermal stability even when reheating the formwork table



New

An endless number of possibilities...

IBTronic



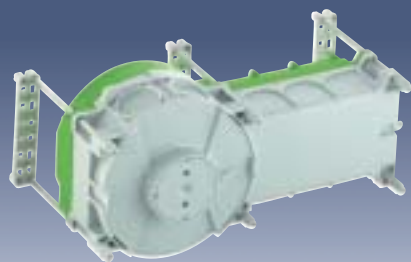
Wide range of possibilities

The new universal IBTronic and IBTronic-TT housing systems offer a wide range of possibilities for the easy integration into concrete ceilings and walls of LEDs, low voltage or high-voltage luminaires and loud speakers, and other components. Two housing shapes each with a different „face“ (outlet openings) are available to the planner and the user. All the housings can be combined with each other, allowing a large

number of different application possibilities to be realised. Installation is possible both in pre-cast concrete parts and also in site cast concrete directly on the building site, from a ceiling thickness of 14 centimetres. The basis for this is two different housing shapes in 2 different usable installed heights.

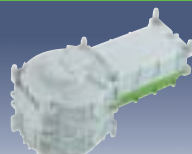
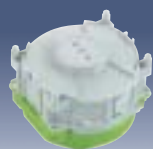


▲ Precisely aligned light installation with the Fermacell® plate ceiling outlet.

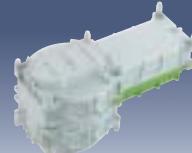
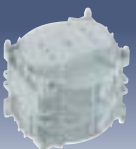
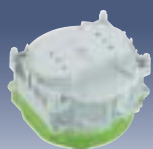


IBTronic

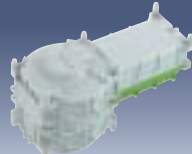
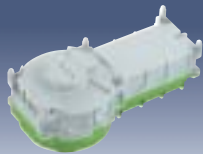
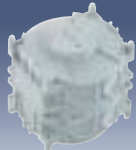
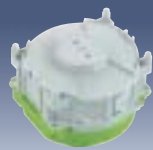
IBTronic-TT



1-fach



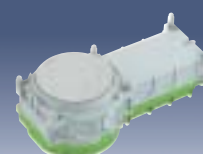
2-fach



Ø 68 mm



Ø 100/120 mm



Fermacell®

◀ Simple wall mounting with the patented support spar technique (support spar length = wall thickness minus 1 cm).

◀ Used as a back mounted box from a wall thickness of 240 mm.

1 way receptacle:

Allows the use of numerous standard UP inserts such as e.g. electrical sockets and switches

2 way receptacle:

Allows the use of numerous standard UP inserts such as e.g. electrical sockets and switches

Ceiling outlet:

Ø 68 mm

Typical installation dimension for a large number of low voltage luminaires

Ø 100/120 mm

When required this variant can be opened in two sizes:

- **Ø 100 mm**
The connecting webs between the 100 and 120 mm opening are simply cut through with a knife. The 100 mm opening can then easily be knocked out with a hammer.
- **Ø 120 mm**
This opening can be made directly with the hole cutter (Order Reference No. 925 121 01).

Fermacell plate

The universal outlet, variable up to Ø 100 mm. The required installation opening is defined on the building site. For this the required aperture is simply cut directly into the Fermacell® plate with a suitable hole cutter.

▲ IBTronic-TT for simple mounting of an electronic safety transformer.

▲ IBTronic makes it possible to hide halogen and LED luminaires and high grade electronics conveniently and elegantly in the concrete ceiling.

New **IBT**



▲ **Universal 90° outlet**

For building into concrete, with a minimum space requirement, for the simple transfer of conduit into the wall or ceiling area or for continuing on the concrete floor. Entries for conduits up to M 25. Suitable for fixing with nails or adhesive and also supported by the blank base and support spars for opposing formwork

Order reference number:

970 716 01



▲ **Universal 90° outlet**



▲ **Conduit connector** (without conduit)

with strain relief, grey, for flexible and rigid electrical installation conduits, from M 20 to M 40.

Further joints easily made.

NEW PRODUCTS



◀ **Conduit stopper** made of corrugated cardboard as a conduit limit stop when using rigid conduits.

Order reference number:

979 109 01

◀ **IBT universal outlet cleats**

For concrete structures, can be used as a ceiling outlet with large tolerance compensation. Application example: Feed in for internal partitions.

The cleats can be combined next to each other and one behind the other without using tools. When combined one behind the other the tolerance range is doubled, the second opening can be closed off with the metric plugs (separate accessory). Likewise a second conduit entry is possible.

Order reference number:

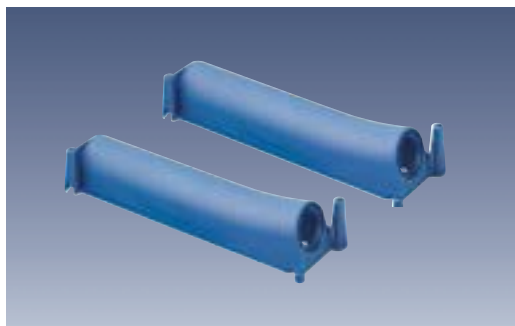
970 705 01, M 20

Order reference number:

970 706 01, M 25



▲ Trouble-free transition of leads out of the ceiling into light structural walls set up below.



▲ Conduit lead-in angled upwards, allowing the easy conduit laying above the reinforcement.



▲ Reliable, fast further connection with the conduit connector.

Assembly and installation techniques



◀◀ **Precision perforation**

The perforation is always 2 - 3 mm smaller than the outside diameter of the conduit.
(Accessories: Hand hole punch: Order Reference No. 978 100 01, Page 48).

◀ **Patented sealing principle**

After enlarging the access hole with the expansion mandrel (Accessories: Order Reference No. 979 155 01, Page 49), the conduit can easily be inserted. The diaphragm then returns to its original position and ensures strain relief and sealing.

ASSEMBLY AND INSTALLATION TECHNIQUES

► Preparation and the insertion in site cast concrete. Simple preparation of the box for direct mounting onto the formwork.



■ The front section of the box also acts as a conduit mounting

■ When the formwork is removed the front section is pulled off. The box is then ready for the insertion of the equipment



▲ Direct formwork

With direct installation on existing formwork, the front of the box with its closed face is placed on the formwork and fixed in place. When assembling, care should be taken to ensure that the fixing is done from inside through the face and not through the external support spar mountings (later rust spots visible in the concrete!).

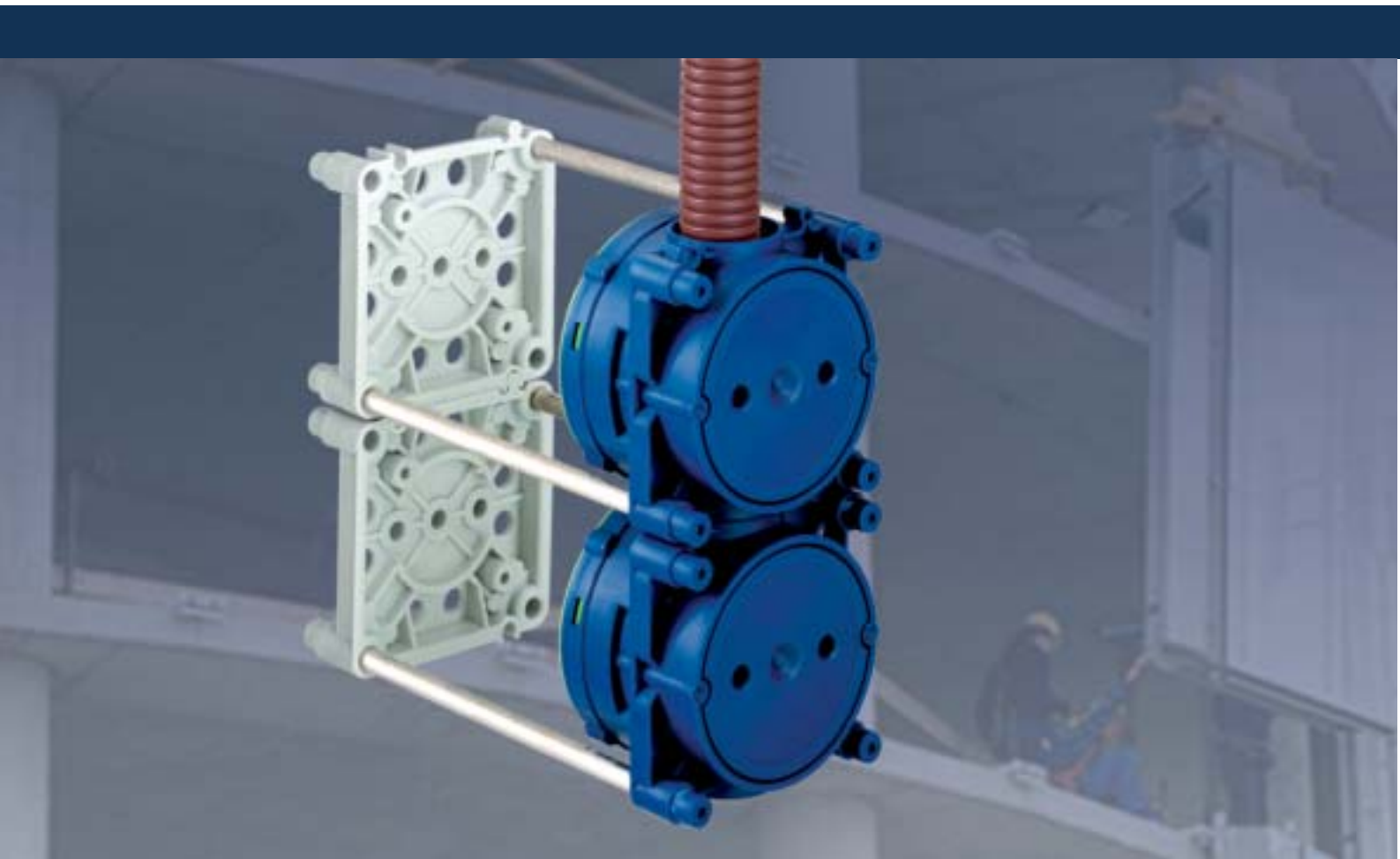


▲ The green bottom section seals securely.

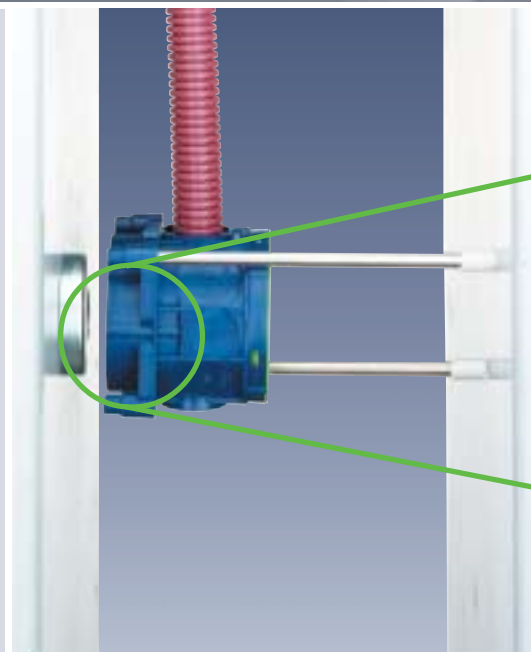


IBT support spar technique (opposing formwork)

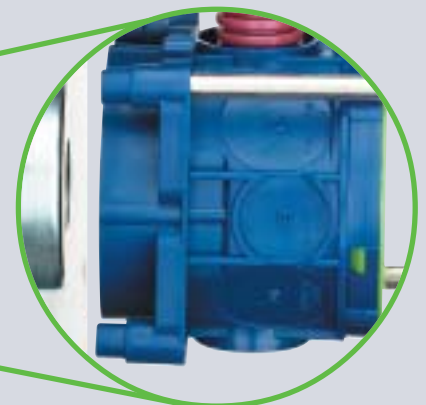
Pre-cast opponent construction / site cast concrete



The IBT support spar technique also comes into use when high stability is required. This could for instance be the case with the use of magnetic clamps on vertical shuttering. Here the magnet is used for fixing the box unit onto the working formwork until the opposing formwork is brought into place and provides the necessary pressure on the support spars. This is sufficient to ensure precise seating of the box even under extreme pressure from the concrete.

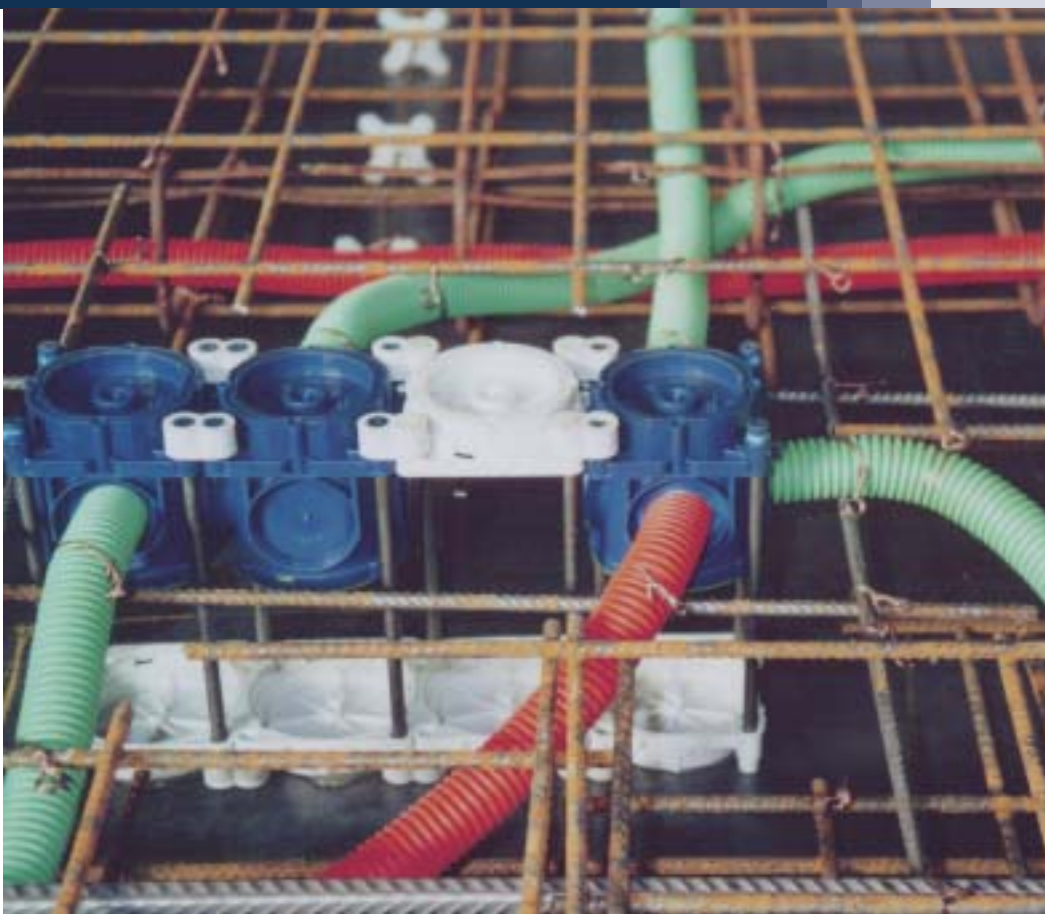


Detailed view of magnetic clamp





◀ Vertical installation in site cast concrete structures.



■ Horizontal installation in the pre-cast components factory.



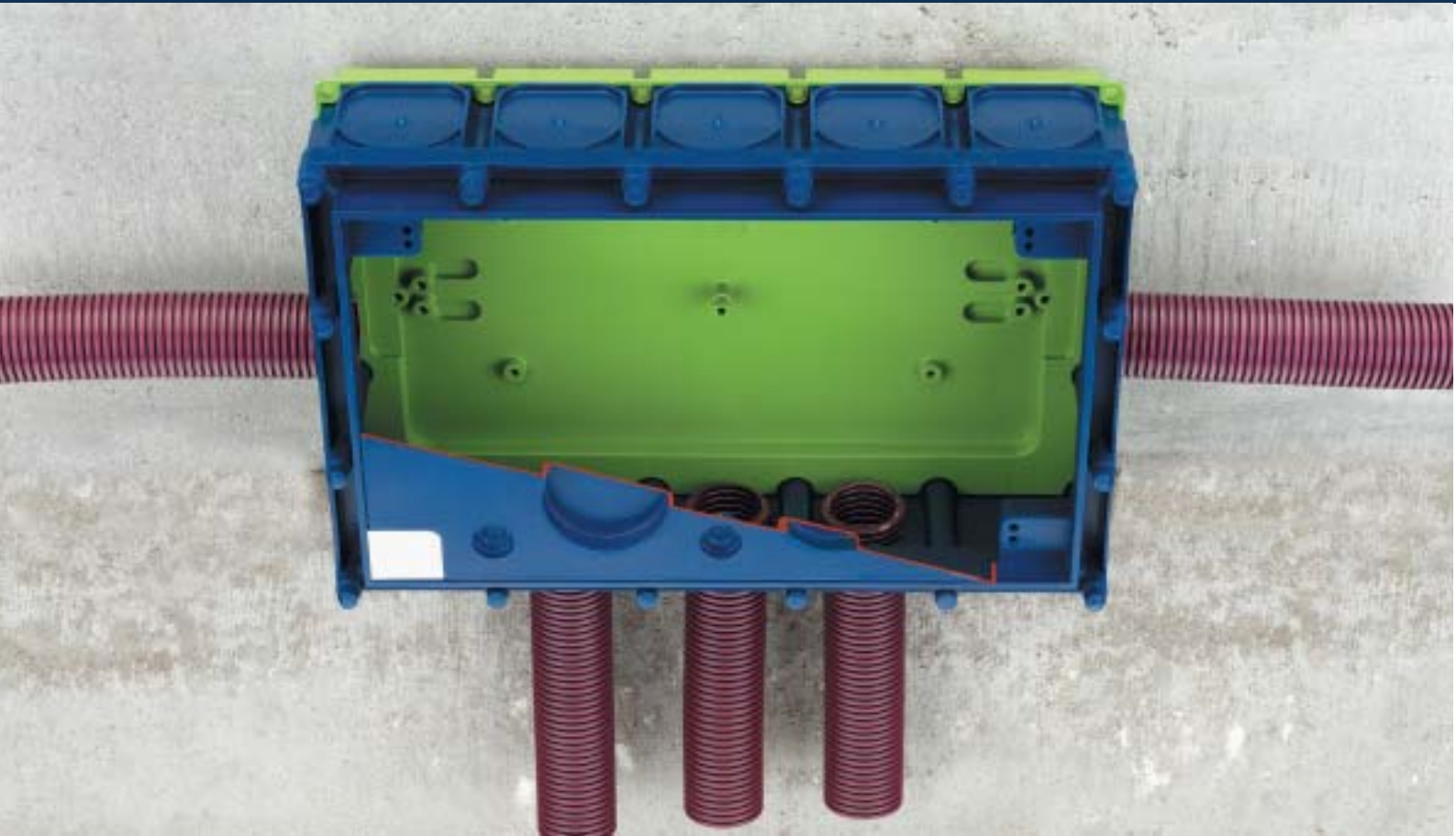
◀ + ◀◀ For the installation of back mounted boxes, the blank base is first fixed to the working formwork.

◀◀◀ Then the support spars are knocked in diagonal to each other (support spar length = wall thickness **minus 1 cm**).

◀◀◀◀ Finally the boxes are pushed on, reversed.

The grey blank bases require later rework by plastering etc.

Wall an ceiling transfers



▲ K 4 pulling box

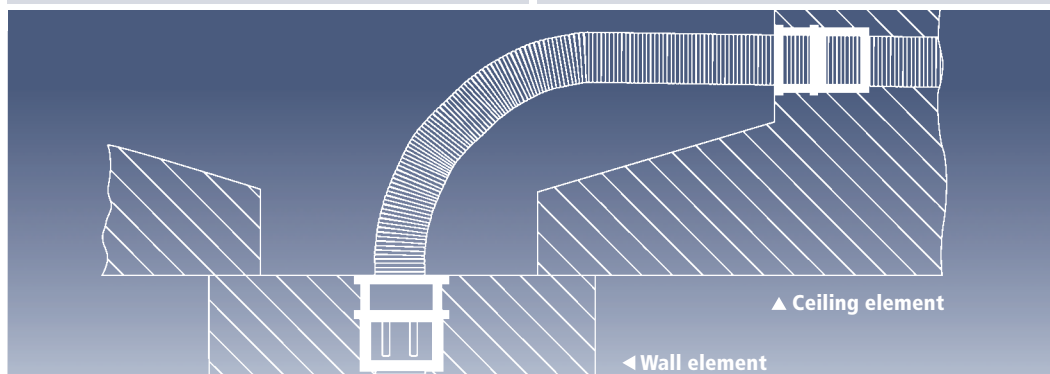
As the length of a run of conduit increases, and it becomes more and more difficult to pull through the conductors, it is recommended that longer sections of conduit be interrupted by so-called pulling boxes.

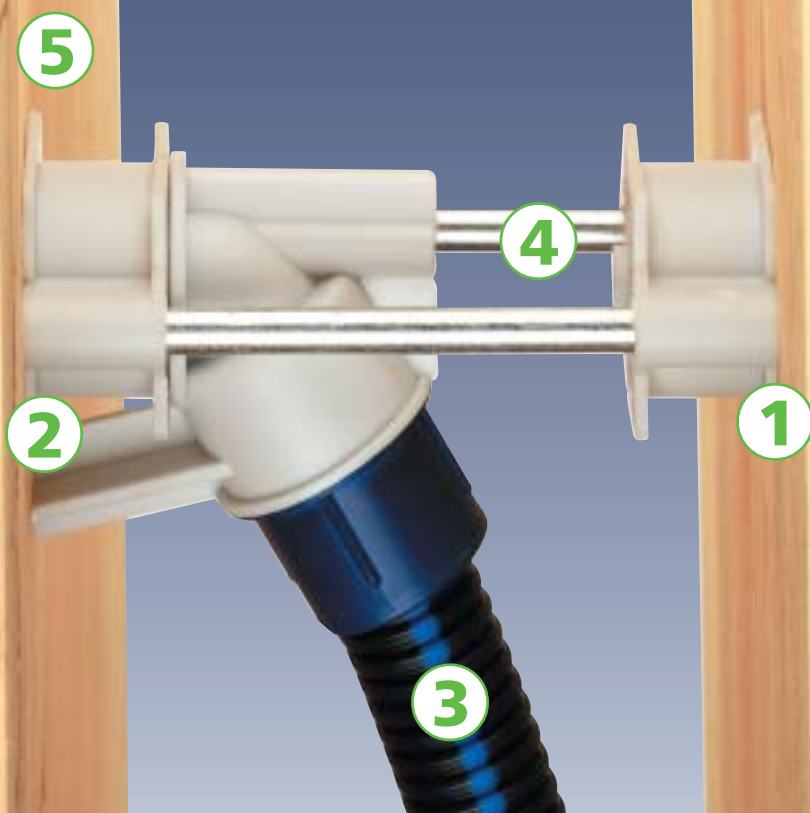
The required conductors can be drawn through particularly easily due to the especially large installation space of the K 4. The K 4 can also be used as a large distribution box.

▼ Conduit ferrule

This is used as a link between wall and ceiling elements in large panel construction. No connecting sleeves are required. In the 2 piece conduit ferrule, the lower section is used for

fixing onto the formwork and the upper section to locate and seal the conduit. Corrugated conduit is automatically stress relieved.





Conduit ferrule and conduit elbows

are fitted as follows when used with opposing formwork:

- Fix the blank base (1) onto the working formwork
- Assemble the elbow combination (2)
- Make the conduit joint (3)
- Knock the support spars (4) into the blank base (spar length = wall thickness **minus 1 cm**)
- Knock the elbow combination lightly onto the support spars, the opposing formwork (5) ensures precise fixing.



◀ Ceiling outlet

Fitted together these give small conduit bending angles of below 30 °.

Assembly sequence: ● Fix the bottom section.

● Knock on the conduit elbow.

● Fit the upper section. ● Push in the conduit.

After removing the formwork the core of the ferrule is removed. In this way the combination can be used as a sleeve coupler. Since the conduit elbow has a built-in wall plug, the ceiling hook (Order Reference No. 979 115 01) converts the combination, if required, into a perfect ceiling outlet „in no time at all“.



Wall an ceiling transfers

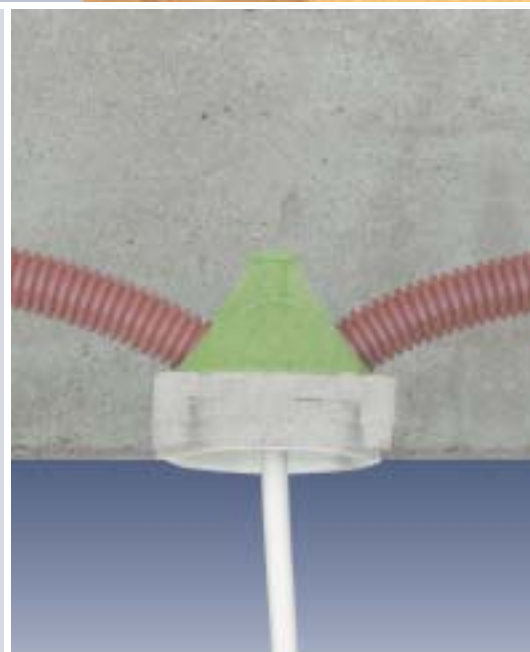


▲ Conical funnels

are mainly used for risers where they are used to compensate for manufacturing tolerances. With vertical formwork the funnel is positioned by two blank cleats (Order Reference No. 979 531 01) and two support spars. Here too: support spar length is equal to wall thickness **minus 1 cm**.

► Dome funnels

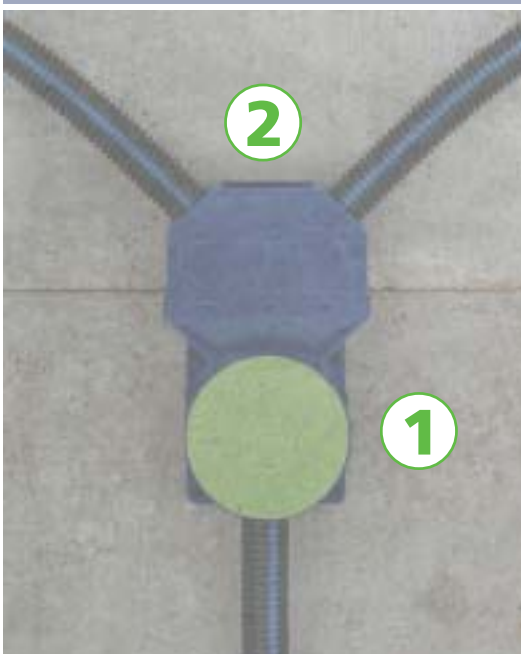
As a ceiling outlet for internal partitions the dome funnel permits ideal conduit guidance below 45° and thus makes it comfortable to pull through the conductors. A ceiling hook can be screwed into the spigot on the upper section.



WALL AND CEILING TRANSFERS



◀ **The ceiling branch box U 71** serves as the central supply point. The 8 inlets (maximum 25 mm Ø) allow a universal conductor feed. Thus the box is optimally suited for fitting ceiling lights (maximum loading 10 kp = 100 N). To achieve the carrying capacity the light hook is completely screwed in. Integral M5 threaded socket to take a ceiling hook. A ceiling plug is not required. Box cover (Order Reference No. 979 100 01) and ceiling hook (Order Reference No. 979 117 01) are available as accessories



◀ **Dome box and transfer box**

In order to create transfers between wall and ceiling, with the tolerances necessary for this, there are many options open to you. Frequently the transfer box (Order Reference No. 970 690 01) (1) is used in combination with a dome box (Order Reference No. 970 550 01) (2) let into the ceiling.



Wall an ceiling transfers



▲ Ceiling outlet cleats

These provide a trouble free transition for conductors from the ceiling into the light construction walls being set up below.

The ceiling outlet cleats also provide the necessary tolerance for large inaccuracies in the area of ceiling and wall transfers.

After the formwork is removed the conduits can be continued with sleeves.

► Ceiling boxes U 86 plus U120

are suitable as special boxes for slab ceilings and part finished ceilings such as filigree, Kaiser Omnia etc. The boxes are inserted in the up to 6.5 cm thick ceiling slab whilst still in the concrete factory. The conduits can be fed into the entries which are still protruding. Concrete is then poured in on the building site up to full ceiling thickness.



WALL AND CEILING TRANSFERS



◀ Conduit ferrule for conductor transfers

Transfer point from the concrete ceiling into a light construction wall / cavity wall to be erected later.

▼ Possible combinations:

(see drawing):

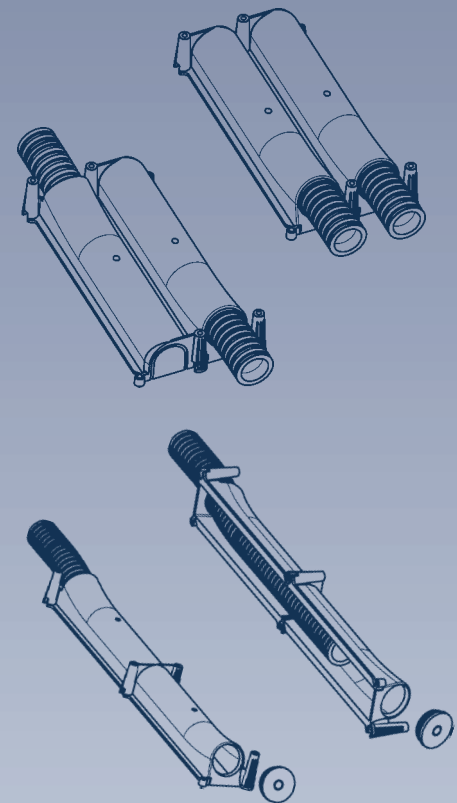
Accessories (for assembly one behind the other):

M 20 sealing plug

Order Reference No. 231 620 01.

M 25 sealing plug

Order Reference No. 231 625 01



Reference building: Radisson Hotel



Reference building:

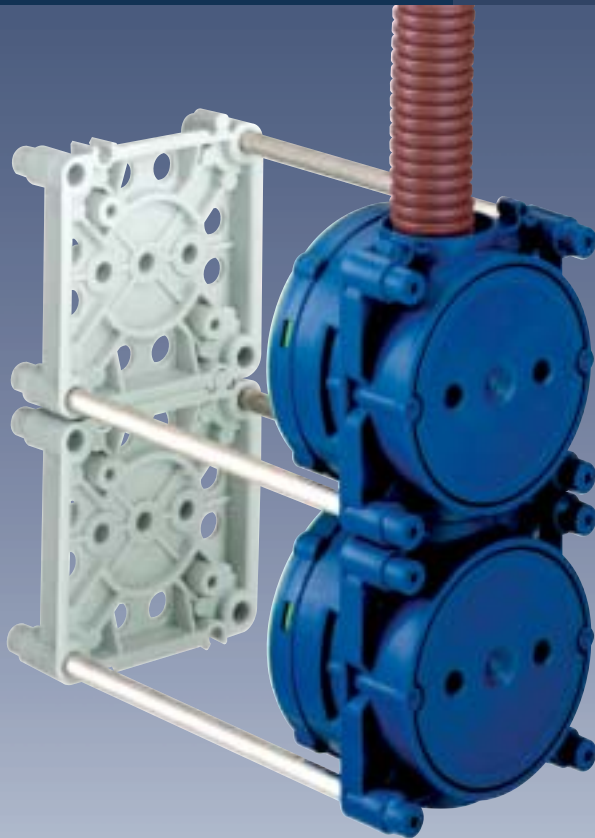
RWE Tower, Dortmund

els

The wide variety of the IBT system.



Stable as concrete



■ Wall and ceiling boxes for built-in equipment to DIN/VDE 0606, AFI and British Standards. Built-in boxes

■ Wall and ceiling transfers

■ Stable support spar technique for opposing formwork (support spar length = wall thickness minus 1 cm. The length of the support spar for this is „wall thickness minus 1 cm“, regardless of which boxes and receptacles are used. The only thing important for the length of the support spar is the thickness of the wall!



Reference building: Maritim Hotel



Reference building:
RWE Tower, Essen



Reference building:
Central Railway Station, Frankfurt



Reference building:
Frankfurt airport

IBT Product summary

Concrete installation system

Universal boxes from page 28	U71 Flat box T: 38 mm, Ø 60 mm  *Assembly: -/ K/ ST/ k	U71 Receptacle T: 45/50 mm, Ø 45/60 mm  *Assembly: M/ K/ ST/ k	U71 Dome box T: 89/91 mm, Ø 60 mm  *Assembly: M/ -/ ST/ k	U71 Equipment junction box, 2-piece T: 68 mm, Ø 60 mm  *Assembly: M/ K/ ST/ k	U71 Equipment junction box, 3-piece T: 68 mm, Ø 60 mm  *Assembly: M/ K/ ST/ k
Ceiling junction boxes from page 30	Perilex T: 50 mm, Ø 70 mm  *Assembly: M/ -/ ST/ -	U 71 Ceiling Vd. T: 79 mm, Ø 60 mm 2/3-piece  *Assembly: M/ K/ ST/ k	U 86 Universal-Dd. T: 106 mm, Ø 92 mm 2/3-piece  *Assembly: M/ K/ -/ -	U 120 large conduit box T: 122 mm, Ø 92 mm 2/3-piece  *Assembly: M/ K/ -/ -	
Wall and ceiling transfers from page 32	Cone funnel for risers M20-M40  *Assembly: M/ -/ ST/ -	Dome funnel for Light outlet T: 62/64 mm, Ø 60 mm  *Assembly: -/ K/ ST/ k	Dome box for Ceiling outlet  *Assembly: -/ -/ -/ -	Connection box for wall, ceiling transfer T: 50 mm  *Assembly: -/ -/ -/ -	Universal outlet cleats for conduit transfer M20 - M40  *Assembly: -/ K/ -/ k ¹
Special boxes from page 34	Transfer box K0 AFI-Standard T: 61 mm, LB: 111x71 mm  *Assembly: M/ -/ ST/ k	Spezial box K15 AFI-Standard T: 61 mm, LB: 111 x 116 mm  *Assembly: M/ -/ ST/ k	Spezial box K1 for light call E1 Zettler T: 53 mm, LB: 85x91 mm  *Assembly: M/ -/ ST/ -	Spezial box K2 for light call E2 Zettler or intercoms T: 53 mm, LB: 149 x 91 mm  *Assembly: M/ -/ ST/ -	Spezial box K3 Telephone DG box T: 70 mm, LB: 142 x 142 mm  *Assembly: M/ -/ ST/ k
Export version from page 38	Universal box BS1 British Standard T: 60 mm, LB: 86 x 86 mm  *Assembly: M/ -/ ST/ -	Universal box BS2 British Standard T: 60 mm, LB: 146 x 86 mm  *Assembly: M/ -/ ST/ -	Specialbox K0 American St. 432 T: 61 mm, LB: 111 x 71 mm  *Assembly: M/ -/ ST/ k	Specialbox K15 American St. T: 61 mm, LB: 111 x 116 mm  *Assembly: M/ -/ ST/ k	
Accessories from page 42	Terminal blocks Ceiling hook Adhesive blank Expansion mandrel	IBT plug Blank base U71 Support flange Hole saw, Hole Cutter	Threaded base M5 for U71 T15 Blank cleat AS for K0 Support clip Equipment screws	Dome with M5 thread for U71 Blank cleat K1 for K1+K2 Weld on screw magnetic clamp	Interconnection frames Blank base BS for BS1 and BS2 boxes Clip Spacer Conduit support

U71 large conduit box T: 76 mm, Ø 60 mm  *Assembly: M/ K/ ST/ k	U71 Deep box T: 44/49 mm, Ø 60 mm  *Assembly: M/ K/ ST/ k	U71 Wall outlet box T: 48 mm, Ø 35 mm  *Assembly: -/ -/ ST/ k	U71 Ceiling light junction box T: 89 mm, Ø 35 mm  *Assembly: -/ -/ ST/ k
Universal outlet 90° for conduit transfer M20-M25  *Assembly: -/ K/ ST/ - Neu			
Spezial box K4 / K4-H* Telephone DG Box LB: 311 x 202 mm T: 87/158 mm*  *Assembly: M/ -/ ST/ k *Neu	Distribution set UP 015 for K4, 15 TE LB: 311 x 202 mm  *Assembly: -/ -/ -/ -	Spezial box K8 T: 95mm, LB: 440 x 320 mm  *Assembly: M/ - ST/ -	Spezial box K12 T: 95mm, LB: 565 x 320 mm  *Assembly: M/ -/ ST/ -
Sealing cap K* Blank base Conduit connector* Conduit stopper* *New	Sealing cap U Support spars Hand hole punch Conduit elbow-Set* *New	Sealing cap BS Support buffer Hole punch Conduit ferrule	Sealing cap AS Fixings Assembly bridge BS

*Assembly techniques:





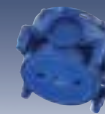


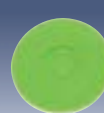




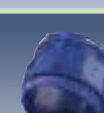
M = Magnet
K = Stick
ST = Support spar technique
k = Combinable








***1** = M20, M25 combinable



Summary of the IBT individual components

Combinable without limit

Overall height Designation		44 mm Tube 74101	35 mm Box 35K 70011	45 mm Wall outlet box 70501	48 mm Switch box 48 70101	48 mm Switch box 48K 70111	
							
21 mm Front cover 73301		✗					
21 mm Front cover K 73311		✗					
2 mm Base 71001		✗	✗	✗	✗	✗	→
14 mm Threaded base M5 71101		✗	✗	✗	✗	✗	
41 mm Dome with Wood thread 73501		✗	✗	✗	✗	✗	
43 mm Dome with Threadet bush M5 73502		✗	✗	✗	✗	✗	
Damp room cover 71601		✗	✗	✗	✗	✗	
lengthens each box by 49 mm Tube GR 70601		✗	✗	✗	✗	✗	→
lengthens each box by 44 mm Tube 74101		✗	✗	✗	✗	✗	

66 mm Box 66 70201	66 mm Box 66K 70211	73 mm Box 73GR 70401	73 mm Box 73GRK 70411	49 mm Tube GR 70601
				
↓				×
				×
	×	×	×	×
×	×	×	×	×
×	×	×	×	×
×	×	×	×	×
×	×	×	×	×
	×	×	×	×
×	×	×	×	×

* You will find this number directly on the individual component



U 71 – Flat box

71 x 71 x 38 mm, 60 mm Ø



Entries:
2 x bis 20 mm Ø

U 71 – Receptacle

71 x 71 x 50 (U 71 D = 45 mm), 60 mm Ø



Entries:
2 x up to 25 mm Ø
U71 D = 2 x bis 20 mm Ø



U 71 – Dome box

71 x 71 x 89/91 mm, 60 mm Ø



Entries::
4 x up to 25 mm Ø, 45°
2 x up to 25 mm Ø

U 71 – Equipment Connection box 2-piece

71 x 71 x 68 mm, 60 mm Ø



Entries::
6 x up to 25 mm Ø
2 x up to 20 mm Ø



Description

Order. Ref. No

VPE

Receptacle for installation in concrete, flat construction for extremely thin walls, 2 screw bosses with 60 mm screw spacing, combinable, suitable for opposing formwork

U 71 K, with smooth face for adhesive fixing

971 035 01

100

Recommended Accessories
Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

Receptacle for installation in concrete, standard version, 2 screw bosses with 60 mm screw spacing, combinable, suitable for opposing formwork

U 71, Standard-Box, also for magnet fixing

971 045 01

100

U 71 K, with smooth face for adhesive fixing

971 745 01

100

U 71 D, Receptacle for extremely thin walls, (no illustration) only 45 mm deep

971 045 02

100

Recommended Accessories
Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

Dome box for installation in concrete, also usable as a ceiling box 2 screw bosses with 60 mm screw spacing, combinable, suitable for opposing formwork and for magnet fixing

U 71, also for magnet fixing Recommended Accessories

971 047 01

100

Sealing cap, 75 mm Ø

979 100 01

200 / 25

Ceiling hook, 90 mm length

979 116 01

600 / 100

U 71, with M5 Threaded bush

to take a ceiling hook

971 248 01

100

Recommended Accessories

Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

Ceiling hook with M5 thread, 90 mm length

979 122 01

600 / 100

Equipment junction box for installation in concrete, with enlarged connection chamber, 4 screw bosses with 60 mm screw spacing, combinable, suitable for opposing formwork

U 71, also for magnet fixing

971 065 01

80

U 71 K, with smooth face for adhesive fixing

971 765 01

80

Recommended Accessories
Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

U 71 – Equipment Connection box 3-piece

71 x 71 x 68 mm, 60 mm Ø



Entries:
6 x up to 25 mm Ø
2 x up to 20 mm Ø



Description

component factories, 4 screw bosses with 60 mm screw spacing, combinable, suitable for opposing formwork

Order. Ref. No

VPE

U 71, also for magnet fixing
U 71 K, with smooth face for adhesive fixing

971 365 01

80

971 865 01

80

Recommended Accessories
Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

U 71 – Large conduit box

71 x 71 x 76 mm, 60 mm Ø



Entries:
4 x up to 37 mm Ø



Large conduit box for installation in concrete, 4 screw bosses with 60 mm screw spacing, combinable, suitable for opposing formwork

U 71, also for magnet fixing
U 71 K, with smooth face for adhesive fixing

972 960 01

75

972 760 01

75

Recommended Accessories
Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

U 71 – Deep box

71 x 71 x 49 mm, 60 mm Ø



Entries:
972 945 01:
4 x up to 32 mm Ø

Entries:
972 925 01:
6 x up to 25 mm Ø
2 x up to 20 mm Ø

Deep box for installation in concrete, as a top housing for all U 71 boxes when using large conduits, 60 mm screw spacing, suitable for opposing formwork

M32 deep box, 49 mm deep
M25 deep box, 44 mm deep

972 945 01

100

972 925 01

100

Recommended Accessories
Dome with threaded bush
Threaded base M5
Blank base U 71 K for adhesive fixing
Blank base U 71 for magnet fixing

971 748 01

100

979 110 01

120

979 538 01

80

979 539 01

80

Wall outlet box

71 x 71 x 48 mm, 35 mm Ø



Entries:
2 x up to 20 mm Ø



Wall outlet box for installation in concrete, for connecting wall luminaires to VDE 0100. with screwed hole for light fixing, combinable, front outlet of 35 mm

Suitable for opposing formwork

970 560 01

100

Sealing cap, white,
35 mm Ø as outlet cover

970 562 01

600 / 100

U 71-Ceiling luminaire junction box

71 x 71 x 89 mm, 35 mm Ø



Entries:
4 x up to 25 mm Ø, 45°
2 x up to 20 mm Ø



Description

U 71 Ceiling luminaire junction box for installation in concrete, front section grey, rear dome with threaded bush to take a ceiling hook, combinable, front outlet 35 mm

Order. Ref. No

VPE

Suitable for opposing formwork

971 548 01

100

Recommended Accessories
Sealing cap, white, 35 mm Ø
as an outlet cover
Ceiling hook, 90 mm long

970 562 01

600 / 100

979 122 01

600 / 100

Perilex® receptacle

71 x 71 x 50 mm, 70 mm Ø



Entries:
6 x up to 22,5 mm Ø

Equipment- or Connection box for installation in concrete, 67 mm screw spacing, for Perilex® inserts 16 A, FR-UP-Equipment, CEE sockets 5-pin 16 A

Suitable for opposing formwork and magnet fixing

973 050 01

50

Recommended Accessories
Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

U 71 – Ceiling-Connection box

71 x 71 x 79 / 81 mm, 60 mm Ø



Entries:
6 x up to 25 mm Ø
2 x up to 20 mm Ø



Ceiling-Connection box for installation in concrete, 4 screw bosses with 60 mm screw spacing, standard version, with M5 Threaded bush to take a ceiling hook, combinable, suitable for opposing formwork

U 71, also for magnet fixing, 2-piece
U 71 K, with smooth face for adhesive fixing, 2-piece
U 71 K, with smooth face for adhesive fixing, 3-piece

971 066 01

50

971 766 01

50

971 866 01

50

Recommended Accessories
Sealing cap, white, 75 mm Ø
Ceiling hook, 75 mm length

979 100 01

200 / 25

979 117 01

600 / 100

U 86 – Universal-Ceiling box

106 mm hoch, 74 / 92 mm Ø



Entries:
8 x up to 26 mm Ø



Universal-Ceiling box for installation in concrete for slab ceilings up to 4.5 cm thick, with M5 threaded bush to take a ceiling hook

U 86, also for magnet fixing, 2-piece
U 86 K, with smooth face for adhesive fixing, 2-piece
U 86 K, with smooth face for adhesive fixing, 3-piece

973 081 02

50

973 781 01

50

973 783 01

50

Recommended Accessories
Sealing cap, white, 75 mm Ø
Sealing cap, white, 90 mm Ø
Ceiling hook, 100 mm length

979 100 01

200 / 25

925 100 01

300 / 10

979 119 01

600 / 100

U 120 – large conduit-ceiling box

122 mm hoch, 80/92 mm Ø



Entries:
4 x up to 35 mm Ø
8 x up to 26 mm Ø

Description

Ceiling box for installation in concrete, for slab ceilings up to 6.5 cm thick, with M5 threaded bush to take a ceiling hook

Order. Ref. No

VPE

U 120, also for magnet fixing, 3-piece

973 312 01

35

U 120 K, with smooth face for adhesive fixing, 3-piece

973 713 01

40

U 120 K, with smooth face for adhesive fixing, 2-piece

973 712 01

40

Recommended Accessories

Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

Sealing cap, white, 90 mm Ø

925 100 01

300 / 10

ceiling hook, 115 mm length

979 121 01

600 / 100

Conduit ferrule

with bottom section



Conduit ferrule for installation in concrete, to take various conduit diameters, also suitable for opposing formwork

Ferrule opening

For conduit type

Hole Ø

18 mm

M20

970 518 01

210

23 mm

M25

970 523 01

90

30 mm

M32

970 530 01

90

37 mm

M40 (one piece, no illustration)

970 537 01

100

Conduit elbow



Conduit elbow for 30° entry for installing in conduit ferrule

Elbows for conduit ferrules

30° small

970 518 01

970 425 01

300

30° medium

970 523 01

970 430 01

120

30° large

970 530 01

970 435 01

120

Recommended Accessories

Ceiling hook for conduit elbow, small

979 115 01

600 / 100

Conduit ferrule / conduit ferrule elbow set



Conduit ferrule/ conduit elbow for installation in concrete, 3-piece, consisting of conduit ferrule with bottom section and conduit elbow 30°

For conduit type

M20

970 720 01

30

M25

970 725 01

15

M32

970 732 01

15

NEW!

Sealing plug

for conduit ferrule



Description

Sealing plug for conduit ferrule bottom section for protection against the ingress of dirt after concreting

Order. Ref. No

VPE

for opening

for conduit ferrules

18 mm

970 518 01

970 318 01

1500 / 250

23 mm

970 523 01

970 323 01

750 / 125

30 mm

970 530 01

970 330 01

300 / 50

Conduit stopper



Conduit stopper made of corrugated cardboard, to limit the insertion of conduits

for use in U71-boxes

979 109 01

50

Cone funnel

for Wall- / Ceiling transfers and risers



Cone funnel for installation in concrete, for wall-wall-connections in large panel construction and for connections from risers (e.g. Telephone-TV), also suitable for magnet fixing and opposing formwork

Hole for conduit Type

Typ 18 18 mm Ø M20

970 618 01

70

Typ 23 23 mm Ø M25

970 623 01

60

Typ 30 30 mm Ø M32

970 630 01

60

Typ 37 37 mm Ø M40

970 637 01

60

Dome funnel

71 x 71 x 62/64 mm, 60 mm Ø



Dome funnel for installation in concrete, as a ceiling outlet for internal partition or as a luminaire outlet, combinable, also suitable for adhesive fixing and opposing formwork

Dome funnel

Recommended Accessories

970 540 01

150

Ceiling hook, 65 mm length

979 118 01

600

Dome funnel with M5 Threaded bush

Recommended Accessories

970 748 01

150

ceiling hook with M5 thread, 65 mm length

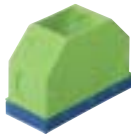
979 120 01

600

Entries:
4 x up to 25 mm Ø, 45°

Dome box

90 x 40 x 55 mm



Entries:
10 x up to 22,5 mm Ø

Description

Dome box for installation in concrete, as a ceiling outlet in site cast concrete or large panel construction

or as a wall ceiling connection in large panel construction

970 550 01

100

Connection box

95 x 90 x 50 mm



Entries:
3 x up to 28,3 mm Ø

Connection box for installation in concrete, as a wall / ceiling transfer in large panel construction

or as a wall branch box in site cast concrete

970 690 01

60

Recommended Accessories
Sealing cap, white, 75 mm Ø

979 100 01

200 / 25

Universal outlet cleats

NEW!



Universal outlet cleats for installation in concrete, usable as a ceiling outlet with a large tolerance compensation. DAL 1 and DAL 2 can be combined next to each other and one behind the other without tools

DAL 1: for conduits M20, M25 (171 x 49 x 35 mm)

970 705 01

100

DAL 2: for conduits M25 (171 x 49 x 35 mm)

970 706 01

100

4: for conduits M32, M40 (315 x 80 x 90 mm)

970 704 01

50

Recommended Accessories
DAL 1 / DAL2: Sealing plug M20, M25

Sealing plug



Sealing plugs with closed sealing diaphragm are needed when DAL 1/DAL 2 are combined one behind the other

Sealing plug M20
Sealing plug M25

231 620 01
231 625 01

100
50

Universal outlet 90°



NEW!

Universal outlet for installation in concrete, for easy conduit transfer in the wall and ceiling area or for continuing conduits under the screed. Entries for conduits up to M25. Suitable for adhesive fixing and opposing formwork

Universal outlet 90°

970 716 01

90

Empfohlenes Zubehör:

RV20, conduit connector M20

970 220 01

100

RV25, conduit connector M25

970 225 01

50

K0 – Transfer box

111 x 71 x 61 mm



Entries:
up to 32 mm Ø



Description

Order. Ref. No

VPE

Transfer box for installation in concrete, suitable as a junction box, screw spacing 83.5 and 100 mm, complies with AFI-Standard, combinable also for opposing formwork and magnet fixing

auch für Gegenschalung und Magnetbefestigung

977 001 01

50

Recommended Accessories
Sealing cap K0

977 100 01

180 / 30

K15 – Spezial box

111 x 116 x 61 mm



Entries:
up to 30 mm Ø



Special box for installation in concrete, suitable as a junction box with large terminal space, screw spacing 2 x 83.5 and 1 x 100 mm, complies with AFI-Standard

combinable also for opposing formwork and magnet fixing

977 002 01

30

Recommended Accessories
Sealing cap K15

977 105 01

90 / 15

K1 – Spezial box

85 x 91 x 53 mm



Entries:
up to 23 mm Ø



Special box for installation in concrete, suitable as a junction box or installation box for Zettler light call E1

also for opposing formwork and magnet fixing

975 001 01

50

Recommended Accessories
Sealing cap K1

975 100 01

150 / 25

K2 – Spezial box

149 x 91 x 53 mm



Entries:
up to 23 mm Ø



Special box for installation in concrete, suitable as a junction box, As an installation box for Zettler light call E2 or for various intercoms

also for opposing formwork and magnet fixing

975 002 01

30

Recommended Accessories
Sealing cap K2

975 102 01

90 / 15

K3 – Connection box

142 x 142 x 70 mm



Entries:
8 x up to 47,5 mm Ø



Description

Order. Ref. No

VPE

Connection box for installation in concrete, prepared to take the WK-Terminal blocks 2.5-25 mm², suitable to take a 20-pin telephone terminal strip or as a telephone continuity box to DIN 47614-615, combinable

also for opposing formwork and magnet fixing

980 002 01

15

Recommended Accessories

Sealing cap K3

980 100 01

50 / 10

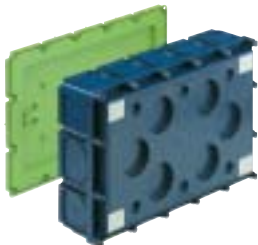
Divider K3

980 105 01

300 / 30

K4 – Connection box

311 x 202 x 87 mm



Entries:
16 x up to 47,5 mm Ø



Connection box for installation in concrete, prepared to take the WK-Terminal blocks 2.5-25 mm², a 40-pin telephone terminal strip, as a telephone continuity box to DIN 47614-615 or IBT-Distribution set UP 015 (single row, 15 TE), combinable

also for opposing formwork and magnet fixing

980 004 01

4

Recommended Accessories

Sealing cap K4

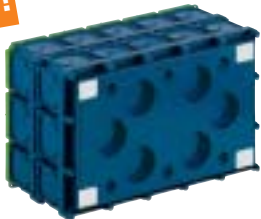
980 104 01

10

K4 – H Connection box

311 x 202 x 158 mm

NEW!



Entries:
32 x up to 47,5 mm Ø

Connection box for installation in concrete, prepared to take the WK-Terminal blocks 2.5-25 mm², a 40-pin. telephone terminal strip, as a telephone continuity box to DIN 47614-615 or IBT-Distribution set UP 015 (single row, 15 TE), combinable

also for opposing formwork and magnet fixing

980 005 01

1

Recommended Accessories

Sealing cap K4

980 104 01

10

UP 015 – Distribution set

311 x 202 mm
for installation box K4



Distribution set single row, 15 divider units, plastic frame and -door, white, with spring latch, 35 mm-DIN standard rail, PE/N terminals, cover strips and label pad

for installation box K4

986 000 01

6 / 1

K8 - installation box

320 x 440 x 95 mm



Description	Order. Ref. No	VPE
K8-installation box for installation in concrete, including fitting template, for all types of formwork fixing in the IBT range		
also for opposing formwork and magnet fixing	988 002 01	1/ 1
Recommended accessories Sealing cap K8	980 108 01	10

K12 - installation box

320 x 565 x 95 mm



K12-installation box for installation in concrete, including fitting template, for all types of formwork fixing in the IBT range		
also for opposing formwork and magnet fixing	988 003 01	1/ 1
Recommended accessories Sealing cap K12	980 112 01	10



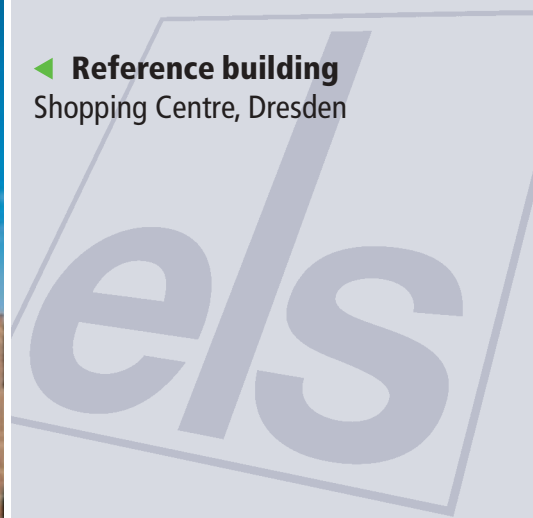
◀ **Reference building**
Reha Oldenburg



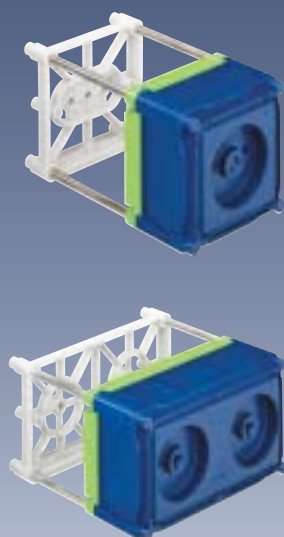
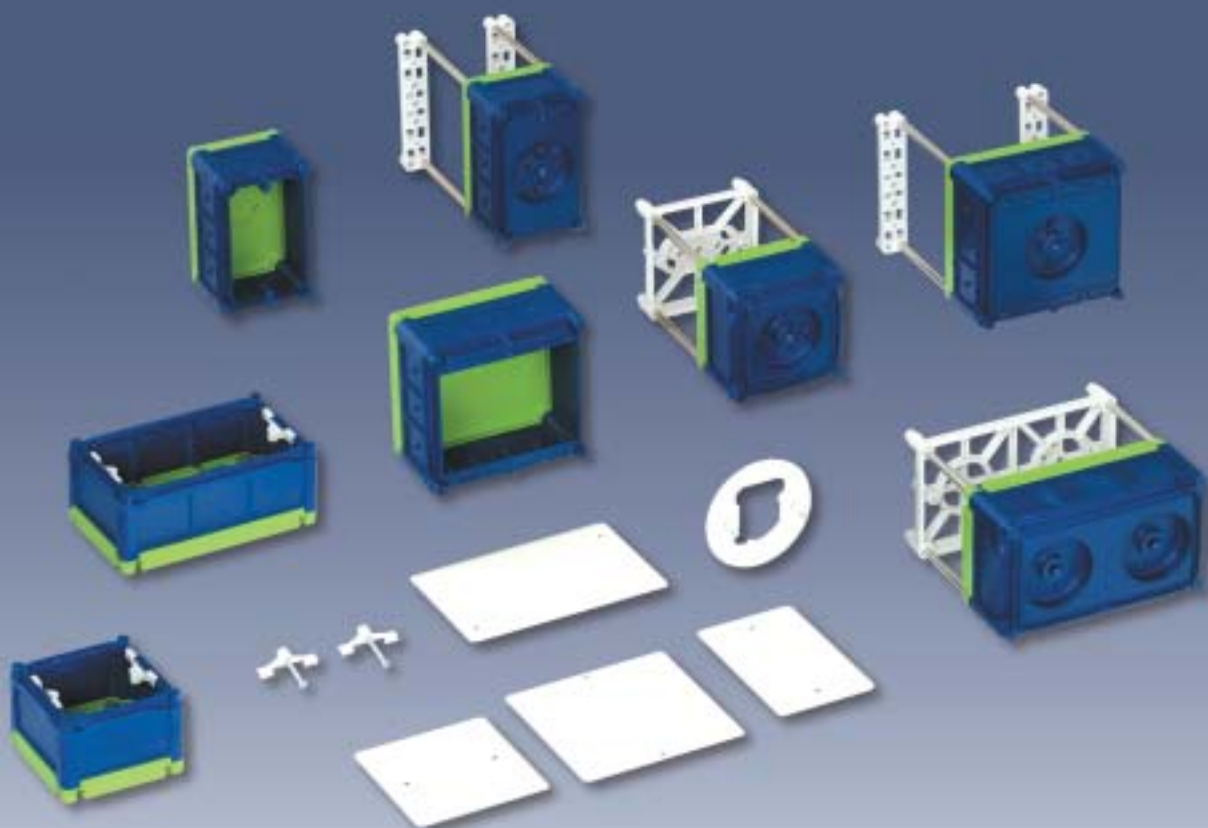
◀◀ **Reference building**
RWE-Tower, Dortmund



◀ **Reference building**
Shopping Centre, Dresden



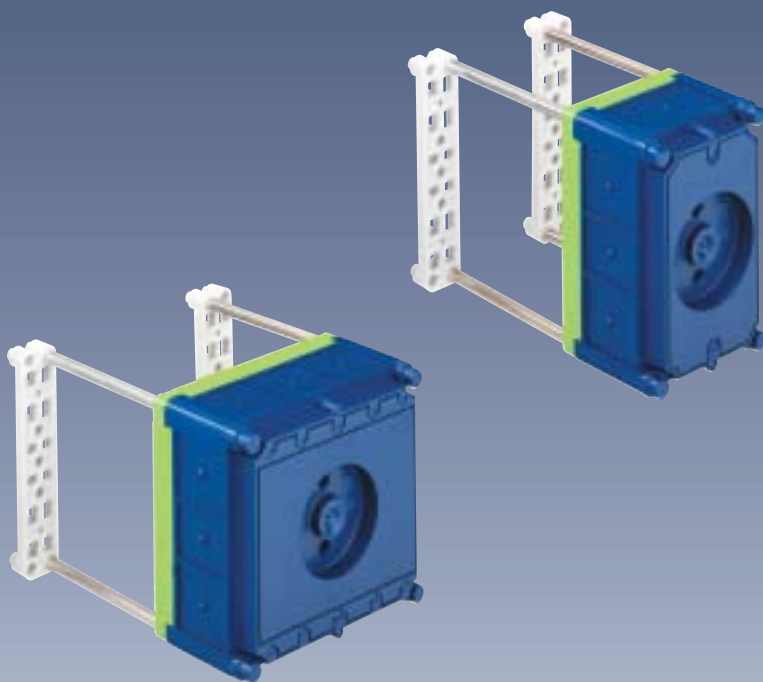
Export versions



◀ British Standard

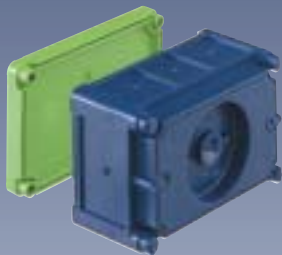
On Types BS1 and BS2 the assembly bridges (Order. Ref. No.974 120 01) are snapped in after knocking out the front wall. This automatically gives a fixing dimension of 60.3 mm for BS1 or 120.6 mm for BS2.

The assembly bridges can still be moved sideways, allowing later adjustment of the equipment.



The **IBT-boxes for export** are developed in accordance with **BS-Regulation** or **NEMA Standards-Publication**. The range for the installation of American switches and sockets is equally suitable for Italian, French and Japanese built-in equipment with a screw spacing of 83.5 mm.

Reference buildings worldwide are evidence of our wide know-how in electrical installations in concrete structures.



◀ ▲ **American Standard**

With back mounted boxes K0 and K15 it should always be noted that 2 blank bases AS (Order. Ref. No. 979 532 01) and 4 support spars are needed for each back mounted box. The length of the support spars for this is wall thickness **minus 1 cm**



BS 1 – Universal box

86 x 86 x 60 mm



Entries:
8 x up to 32 mm Ø

Description

Universal box for installation in concrete, „1-gang-box“ for installing „British Standard“ equipment, screw spacing 60.3 mm (2³/₈ inch.), delivered with earthing screw

Order. Ref. No

VPE

suitable for opposing formwork and magnet fixing	974 001 01	50
Blank base BS 1 for opposing formwork	974 431 01	100
Assembly bridge	974 120 01	1000 / 100
Installation screws for fixing BS equipment		
3,5 x 30	974 130 01	4000/1000
3,5 x 35	974 135 01	3000 / 750
3,5 x 50	974 150 01	2000 / 500

BS 2 – Universal box

146 x 86 x 60 mm



Entries:
10 x up to 32 mm Ø

Universal box for installation in concrete, „2-gang-box“ for installing „British Standard“ equipment“, screw spacing 120.6 mm (4³/₄ inch.), delivered with earthing screw

suitable for opposing formwork and magnet fixing	974 002 01	30
Recommended accessories		
Blank base BS 2 for opposing formwork	974 432 01	60
BS Assembly bridge	974 120 01	1000 / 100
Installation screws for fixing BS equipment		
3,5 x 30	974 130 01	4000/1000
3,5 x 35	974 135 01	3000 / 750
3,5 x 50	974 150 01	2000 / 500

Special box K 0

111 x 71 x 61 mm



Entries:
8 x up to 32 mm Ø

Special box for installation in concrete, for installing „American Standard 432“ equipment to NEMA Publ. NO.OS 1, screw spacing 83.5 mm (3⁹/₃₂ inch.), combinable

suitable for opposing formwork and magnet fixing	977 001 01	50
Recommended accessories		
AS Blank cleat for opposing formwork, 2 off required per box	979 532 01	200

Special box K 15

111 x 116 x 61 mm



Entries:
12 x up to 32 mm Ø

Special box for installation in concrete, for installing „American Standard“ equipment to NEMA Publ. NO.OS 1, corresponds to the »„4“ square box« for 2 units, screw spacing 2 x 83.5 mm (3⁹/₃₂ inch.), combinable

suitable for opposing formwork and magnet fixing	977 002 01	30
Recommended accessories		
AS Blank cleat for opposing formwork, 2 off required per box	979 532 01	200



◀◀ Precision punching

The hole is always made 2-3 mm smaller than the outside diameter of the conduit

◀ Open up with expansion mandrel

Easy insertion of the conduit

1) Hole punch

for large scale operation in precast concrete factories, with fixing device

2) Expansion mandrel

Assembly tool when inserting conduit

3) Hand hole punch

for making precision fit entries in concrete boxes

4) Punch sets

as replacements or where expansion is required



Other accessories can be found on the following pages.



Terminal blocks



Description

Order. Ref. No

VPE

Terminal blocks, for installation in IBT-boxes and special boxes

5 x 2,5/4 mm ²	for K0-, K15-, K1-, K2-boxes	840 004 01	10
5 x 6 mm ²	for K15-, K2-, K3-boxes	460 506 01	1
5 x 10 mm ²	for K15-, K3-, K4-boxes	460 510 01	1
5 x 16 mm ²	for K3-, K4-boxes	460 516 01	1
5 x 25 mm ²	for K4-boxes	460 535 01	1

IBT-plugs



IBT-plugs

protect the holes for the equipment screws from the ingress of concrete

979 205 01

6000/1000

Threaded base M5

15 mm high



Threaded base M5

converts any U 71 junction box into a ceiling box

979 110 01

120

Entries:
4 x up to 25 mm Ø, 45°

Dome

43 mm high



Dome with threaded bush M5, suitable as a top for U 71 boxes and for magnet and adhesive blank bases

(only suitable for Series U 71, blue version)

971 748 01

100

Accessories for combinations



Description		Order. Ref. No	VPE
Interconnection frames for the combination of boxes under extreme loading			
for a spacing of	71 mm	979 212 01	900 / 150
for a spacing of	80 und 85 mm	979 213 01	450 / 75
for a spacing of	90 mm	979 214 01	600 / 100
for a spacing of	105 mm	979 215 01	600 / 100
Compound nipple as a seal and wire grommet for a spacing of 71 mm (for U 71 receptacle 971 045 02)		979 210 01	900 / 150

Sealing cap K



NEW!*

Sealing cap , white, flame retardant, for special junction boxes			
Dimensions	for		
110 x 70 mm	K 0	977 100 01	180 / 30
115 x 110 mm	K 15	977 105 01	90 / 15
90 x 90 mm	K 1	975 100 01	150 / 25
146 x 90 mm	K 2	975 102 01	90 / 15
142 x 142 mm	K 3	980 100 01	50 / 10
311 x 202 mm	K 4	980 104 01	10
* 442 x 320 mm	K 8	980 108 01	1
* 567 x 320 mm	K 12	980 112 01	1

Sealing cap U



Sealing cap for junction boxes, flame retardant, white, with fixing screws				
Cover	Diameter	for		
Unit cover	Ø 75 mm	U71, U86, U120	979 100 01	200 / 25
Sealing cap	Ø 90 mm	U71	925 101 01	300 / 10
Sealing cap	Ø 90 mm	U86 / U120	925 100 01	300 / 10
Damp room cover	Ø 80 mm	U71	979 102 01	100 / 10
Damp room cover	Ø 90 mm	U 86	979 103 01	100 / 10
Universal cover for pressing into	Ø 80 mm	U71	979 104 01	100 / 10

Sealing cap BS



Sealing cap BS , white, flame retardant, with fixing screws and assembly bridges		
BS 1, for Universal box BS 1 86 x 86 mm	974 100 01	150 / 25
BS 2, for Universal box BS 2 146 x 86 mm	974 102 01	90 / 15

Sealing cap AS



Description

Order. Ref. No

VPE

Sealing cap AS, white, flame retardant, for „American Standard“ boxes

K 0, for Special box K 0

977 100 01

180 / 30

K 15, for Special box K 15

977 105 01

90 / 15

Ceiling hook

insulated



Ceiling hook, insulated, with wood screw thread

Shank length:

55 mm conduit elbow small

979 115 01

600 / 100

65 mm dome funnel

979 118 01

600 / 100

80 mm dome box

979 116 01

600 / 100

Ceiling hook, insulated, with M 5 thread

Shank length

65 mm for dome funnel with threaded bush

979 120 01

600 / 100

75 mm for ceiling junction box U 71

979 117 01

600 / 100

90 mm for dome box with threaded bush

979 122 01

600 / 100

100 mm for ceiling junction box U 86

979 119 01

600 / 100

115 mm for ceiling junction box U 120

979 121 01

600 / 100

135 mm for special requirement

979 123 01

600 / 100

Blank base U 71

71 x 71 x 25 / 21 mm



Blank base, Base for supporting IBT-boxes and boxes in opposing formwork in conjunction with support spars, combinable by a snap-in connection. If fitting the blank base with nails, magnet or adhesive, it is necessary to plaster the fixing points later.

For fitting:

1.the **boxes U 71** in opposing formwork, at a 71 mm spacing. For extreme loadings can be combined using an interconnection frame
2.the **special boxes K3 and K4** in opposing formwork with 2 or 4 bases and 3 support spars each in the corners

Type: High: for:

U 71 25 mm nail fixing

979 530 01

80

U 71 25 mm fair face concrete, min. visibility on the feet

979 530 02

80

U 71 K 21 mm adhesive fixing

979 538 01

80

U 71 21 mm magnet fixing, magnet hole has to be plastered later

979 539 01

80

Blank cleats AS

110 x 21 x 15 mm



Description

Order. Ref. No

VPE

Blank cleat AS for fixing the transition box K 0 and the Special box K 15 for opposing formwork

2 off required per box

979 532 01

200

Blank cleats K1

90 x 21 x 15 mm



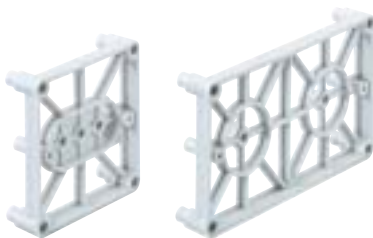
Blank cleat K1 for fixing

1. the special boxes K 1 and K 2 for opposing formwork
2. the cone funnel for transfer from risers, 2 off required per insert

979 531 01

20

Blank base BS



Blank base BS to support the BS boxes, for opposing formwork in conjunction with support spars

BS 1

974 431 01

100

BS 2

974 432 01

60

Blank base



Blank base to support the conduit elbows including conduit ferrules, for opposing formwork in conjunction with support spars

for conduit ferrules

970 518 01

970 500 01

150

970 523 01 / 970 530 01

970 505 01

90

Support spars IBT

Metall, 6 mm Ø



Description

Order. Ref. No

VPE

IBT support spars for various wall thickness in opposing formwork, always used in conjunction with blank base or back mounted box, spar length = Wall thickness **minus 1 cm**.

Wall thickness:

8 cm
10 cm
12 cm
14 cm
15 cm
16 cm
18 cm
20 cm
24 cm
25 cm
30 cm

Spar length:

7 cm
9 cm
11 cm
13 cm
14 cm
15 cm
17 cm
19 cm
23 cm
24 cm
29 cm

979 570 01
979 590 01
979 610 01
979 630 01
979 640 01
979 650 01
979 670 01
979 690 01
979 730 01
979 740 01
979 790 01

1000 / 50
600 / 50
600 / 50
500 / 50
500 / 50
400 / 50
400 / 50
400 / 50
300 / 50
200 / 50
200 / 50

Support buffer/ Cartridge insert



Support buffer as an attachment for support spars when using magnetic clamps

or adhesive in vertical formwork
(instead of the blank base)

979 535 01

6000/1000

Cartridge insert, 6 mm Ø, when support
spar -tolerance compensation is required

979 536 01

300

Fixings for wood / plastic formwork



Fixings for wood / plastic formwork, for site cast concrete or poured
concrete construction on the wooden formwork, for extreme loading use 2 nails

Aluminium-nail, 40 mm

longridged
smooth

979 242 01
979 243 01

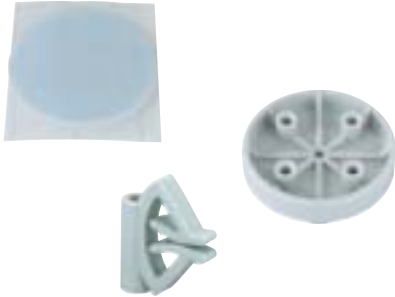
4800 / 800
4800 / 800

Double screw for permanent fixing in series
production with M6 (15 mm) and wood thread
(20 mm), length 35 mm

979 266 01

30

Fixing for plastic / steel formwork



Description	Order. Ref. No	VPE
Fixings for plastic / steel formwork		
Adhesive blank , as a non-damaging fixing When using blank and flange (usable several times), with vertical formwork also use support spars	979 248 01	1200 / 200
Support flange , 50 mm Ø, plastic	979 250 01	300 / 50
Support clip for mesh thickness as an auxiliary fixing for the boxes onto reinforcement mesh in special cases (2 - 3 Clips per box), only usable with support spars	979 245 01	600 / 100

Fixing steel formwork



Fixings for steel formwork Spreader nail , Aluminium, 40 mm, with plastic plug for fixing the boxes on the steel formwork (drilled hole 5.5 mm),		
has proven excellent for tunnel formwork	979 240 01	1800 / 300
Weld on screw , M6 x 10 mm, inexpensive, secure fixing of the box onto steel formwork without drilling, ideal for large batch production	979 260 01	50
Magnetic clamp , 50 mm Ø, normal (pull off strength 120 +/- 20 N)	979 280 01	3
extra strong (pull off strength 300 +/- 20 N=30kp)	979 299 01	3

Fixings for conduits and cables



Fixings for conduits and cables		
Clip , 4,6 x 180 mm	979 136 01	2000 / 100
Spacer , 40 x 40 x 33 mm	979 135 01	300
Conduit support , grau, Höhe 21 cm	979 230 01	25 / 1

Conduit connector

NEW!



Conduit connector (without conduit) with cleat, grey, for flexible and rigid metric electro-installation conduits		
RV 20 , for smooth and corrugated conduits M20	970 220 01	100
RV 25 , for smooth and corrugated conduits M25	970 225 01	50
RV 32 , for smooth and corrugated conduits M32	970 232 01	25
RV 40 , for smooth and corrugated conduits M40	970 240 01	25

Hand hole punch



Description

Hand hole punch, Punching tool for making precision fit entries in concrete boxes, The perforation is always 1 - 3 mm smaller than the outside diameter of the conduit / conductor

Order. Ref. No

VPE

Handhole punch	for conduit		
without punch		978 100 01	1
with 18 mm punch	M20	978 118 01	1
with 23 mm punch	M25	978 123 01	1
Punch sets as replacements or where expansion is required			
Hole Ø	for cable / conduit type (outside Ø)		
10 mm	NY Y 3 x 1,5 (11 mm)	978 910 01	1
14 mm	M16 (16 mm)	978 914 01	1
18 mm	M20 (20 mm)	978 918 01	1
23 mm	M25 (25 mm)	978 923 01	1

Hole punch



Hole punch for large scale operation in precast concrete factories, with fixing device

Punch sets 18 mm and 21 mm plus expansion mandrel		979 162 01	1
Punch sets			
Hole Ø	for cable / conduit type (outside Ø)		
8 mm	NY Y 3 x 1,5 (11 mm)	978 808 01	1
14 mm	M16 (16 mm)	978 814 01	1
18 mm	M20 (20 mm)	978 818 01	1
23 mm	M25	978 823 01	1
30 mm	M32	978 830 01	1
39 mm	M40	978 839 01	1

BS assembly bridge, Installation screws



Assembly bridge BS for the installation of British Standard equipment in boxes BS 1 and BS 2, can be clicked in place and moved sideways,

2 off required per box	974 120 01	1000 / 100
Installation screws for fixing BS equipment		
3,5 x 30	974 130 01	4000/1000
3,5 x 40	974 135 01	3000 / 750
3,5 x 50	974 150 01	2000 / 500

Expansion mandrel



Description

Order. Ref. No

VPE

Expansion mandrel, Assembly tool when inserting conduit

Expansion range 9-25 mm Ø

979 155 01

1

Hole saw



Hole saw, Perforating tool for conduits from NG 23 / Pg 21,7 replaceable inserts from 25-62 mm Ø

Will fit in any commercial drill chuck

979 160 01

1

Hole cutter, 120 mm Ø



Hole cutter, 120 mm Ø suitable for wood and gypsum fibre concrete panels

Will fit in any commercial drill chuck
Cutting depth 40 mm

925 121 01

1

Equipment screws



Equipment screws for fixing operating equipment in concrete boxes

3,1 x 10 mm
3,1 x 18 mm
3,1 x 25 mm

979 105 01
979 106 01
979 107 01

400
250
200

New!

Stable as concrete...

IBTronic



The advantages at a glance

- Two different housing shapes each with two different installed heights (100 / 145 mm) – giving a choice of outlet apertures
- Housings with the 1 and 2 way receptacle outlet aperture allow the installation of countless UP inserts
- High mechanical stability
- Good thermal installation
- Good soundproofing
- Certified security
- Easy fitting into site cast concrete ceilings and walls and in precast components (e.g. ceiling elements)
- M25/M32 conduit stoppers integrated in the housing prevent the conduits from being pushed right through during insertion
- Retrospective extension of the installed height possible on the building site.
- Compatible with the tried and tested support spar technique
- Retrospective installation of series built-in equipment possible (e.g. EIB components)
- Installation in ceilings from a ceiling thickness of 140 mm
- One-piece IBTronic-TT housing with additional connection space (e.g. for the installation of safety transformers)
- Variants with Fermacell plate inserted allow the outlet aperture to be determined on the building site. The necessary aperture is simply cut with a hole cutter.



◀ A choice of two different housing shapes each with two different installed heights (100 / 145 mm)



▲ IBTronic housings with the „2 way receptacle“ outlet aperture offer adequate space for the installation of series built-in equipment (Standard 35 mm rail, Order Ref. No. 979 800 01 required)



◀◀ Retrospective extension possible on the building site

◀ Easy fitting into site cast concrete ceilings and walls and also in precast components



◀◀ Integral conduit stoppers prevent the conduits from being pushed right through

◀ Compatible with the tried and tested support spar technique (Spar length = Wall thickness minus 1 cm)

IBTronic

150 x 150 x 106 mm

for installation ceilings from 140 mm

(Wall installation with IBT-Support spars)

Installation high: 100 mm



Entries: 4 x up to 34 mm Ø
Integral conduit stopper for M25, M32

Description

Order. Ref. No

VPE

Universal installation housing for site cast concrete or precast concrete structures, for the installation of LV/HV/LED luminaires (*) and loudspeakers Suitable for adhesive fixing and opposing formwork

IBTronic H120-S1

outlet aperture: 1-way receptacle

976 001 01

10

IBTronic H120-S2

outlet aperture: 2-way receptacle

976 002 01

10

IBTronic H120-68

outlet aperture: Ø 68 mm

976 005 01

10

IBTronic H120-0

outlet aperture optional: Ø 100/120 mm

976 003 01

10

IBTronic H120-P

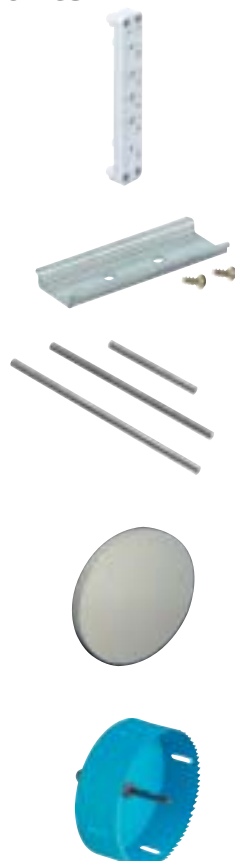
outlet aperture: Fermacell®-plate
variable up to max.
Ø 100 mm

976 004 01

10

NEW!

Accessories



Recommended accessories:

Blank cleat AS for opposing formwork
2 off required per installation box

979 532 01

200

Standard rail 35 mm
for retrofitting in IBTronic: H120-S2

979 800 01

1

Support spars for fixing the IBTronic housing in
opposing formwork. Always used in conjunction with
blank cleat AS. Spar length = Wall thickness **minus 1 cm**

Wall thickness

Spar length

14 cm	13 cm	979 630 01	500/50
15 cm	14 cm	979 640 01	500/50
16 cm	15 cm	979 650 01	500/50
18 cm	17 cm	979 670 01	400/50
20 cm	19 cm	979 690 01	400/50
24 cm	23 cm	979 730 01	300/50
25 cm	24 cm	979 740 01	300/50
30 cm	29 cm	979 790 01	200/50

Fermacell®-plate
for retrofitting in H120-P

979 801 01

10

Hole cutter, Ø 120 mm

925 121 01

1

(*) For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with or marking
Maximum installation height Low-voltage luminaires: 75 mm, High-voltage luminaires: 80 mm, Lamp wattage rating max. 50 W

IBTronic

150 x 150 x 151 mm

for installation ceilings from 180 mm

(Wall installation with IBT-Support spars)

Installation high: 145 mm



NEW!

Entries: 8 x up to 34 mm Ø
Integral conduit stopper for M25, M32

Description

Order. Ref. No

VPE

Universal installation housing for site cast concrete or precast concrete structures, for the installation of LV/HV/LED luminaires (*) and loudspeakers Suitable for adhesive fixing and opposing formwork

IBTronic H120-S1-S2

outlet aperture optional: 1-way or
2-way receptacle

976 101 01

12

IBTronic H120-S1-0

outlet aperture optional: 1-way receptacle
or Ø 100/120 mm

976 103 01

12

IBTronic H120-68-0

outlet aperture optional: Ø 68 mm
Ø 100/120 mm

976 105 01

12

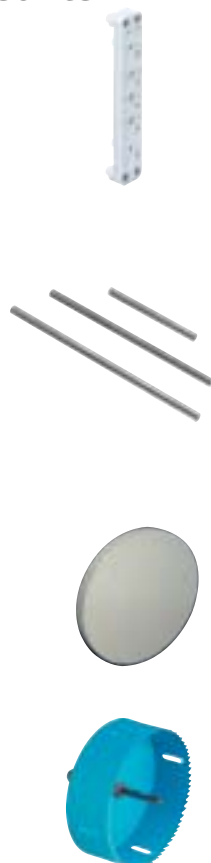
IBTronic H120-P-0

outlet aperture optional: Fermacell®-plate,
variable up to max.
Ø 100 mm oder
Ø 100/120 mm

976 104 01

12

Accessories



Recommended accessories:

Blank cleat AS for opposing formwork
2 off required per installation box

979 532 01

200

Support spars for fixing the IBTronic housing in
opposing formwork. Always used in conjunction with
blank cleat AS. Spar length = Wall thickness **minus 1 cm**

Wall thickness

Spar length

18 cm

17 cm

979 670 01

400/50

20 cm

19 cm

979 690 01

400/50

24 cm

23 cm

979 730 01

300/50

25 cm

24 cm

979 740 01

300/50

30 cm

29 cm

979 790 01

200/50

Fermacell®-plate

for retrofitting in H120-P-0



979 801 01

10

Hole cutter, Ø 120 mm

925 121 01

1

(*) For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with  or  marking
Maximum installation height Low-voltage luminaires: 75 mm, High-voltage luminaires: 80 mm, Lamp wattage rating max. 50W

IBTronic-TT

150 x 306 x 106 mm

for installation in ceilings
from 140 mm

(Wall installation with IBT-Support spars)

Installation height: 100 mm



NEW!

Entries: 6 x up to 34 mm Ø
Integral conduit stopper for M25, M32

Description

Order. Ref. No

VPE

Universal installation housing with additional connection space (e.g. for fitting a safety transformer (*)) for site cast or precast concrete structures, for the installation of LV/HV/LED luminaires (*1) and loudspeakers Suitable for adhesive fixing and opposing formwork

IBTronic-TT H120TT-S1

outlet aperture: 1-way receptacle

976 201 01

8

IBTronic-TT H120TT-S2

outlet aperture: 2-way receptacle

976 202 01

8

IBTronic-TT H120TT-68

outlet aperture: Ø 68 mm

976 205 01

8

IBTronic-TT H120TT-0

outlet aperture: Ø 100/120 mm

976 203 01

8

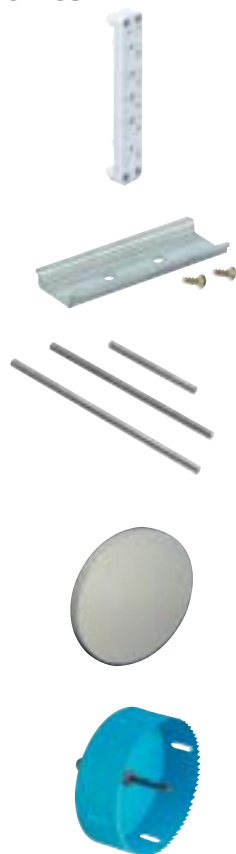
IBTronic-TT H120TT-P

outlet aperture: Fermacell®-plate
variable up to max.
Ø 100 mm

976 204 01

8

Accessories



Recommended accessories:

Blank cleat AS for opposing formwork
2 off required per installation box

979 532 01

200

Standard rail 35 mm

for retrofitting in IBTronic-TT H120TT-S2

979 800 01

1

Support spars for fixing the IBTronic housing in
opposing formwork. Always used in conjunction with
blank cleat AS. Spar length = Wall thickness **minus 1 cm**

Wall thickness

Spar length

14 cm

13 cm

979 630 01

500/50

15 cm

14 cm

979 640 01

500/50

16 cm

15 cm

979 650 01

500/50

18 cm

17 cm

979 670 01

400/50

20 cm

19 cm

979 690 01

400/50

24 cm

23 cm

979 730 01

300/50

25 cm

24 cm

979 740 01

300/50

30 cm

29 cm

979 790 01

200/50

Fermacell®-plate

for retrofitting in H120TT-P

979 801 01

10

Hole cutter, Ø 120 mm

925 121 01

1

*) Electronic transformers up to max. 150 W (e.g. OSRAM HALOTRONIC®, HTM 150 Mouse)(*1).
For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with  or  marking.
Maximum installation height Low-voltage luminaires: 75 mm, High-voltage luminaires: 80 mm, Lamp wattage rating max. 50 W

IBTronic-TT

150 x 306 x 151 mm

for installation ceilings from 180 mm

(Wall installation with IBT-Support spars)

Installation height: 145 mm



Entries: 10 x up to 34 mm Ø
Integral conduit stopper for M25, M32

Description

Order. Ref. No

VPE

Universal installation housing with additional connection space (e.g. for fitting a safety transformer (*)) for site cast or precast concrete structures, for the installation of LV/HV/LED luminaires (*1) and loudspeakers. Suitable for adhesive fixing and opposing formwork

IBTronic-TT H120TT-S1-0

outlet aperture: 1-way receptacle

976 301 01

6

IBTronic-TT H120TT-S2-0

outlet aperture: 2-way receptacle

976 302 01

6

IBTronic-TT H120TT-68-0

outlet aperture: Ø 68 mm

976 305 01

6

IBTronic-TT H120TT-0-0

outlet aperture: Ø 100/120 mm

976 303 01

6

IBTronic-TT H120TT-P-0

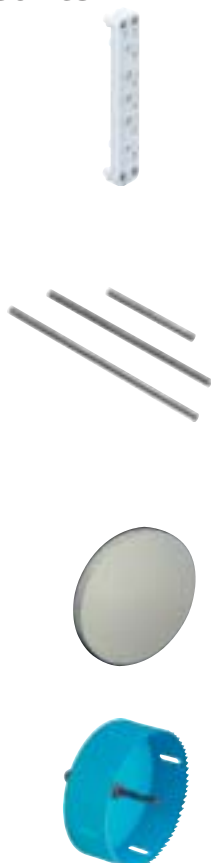
outlet aperture: Fermacell®-plate
variable up to
max. Ø 100 mm

976 304 01

6

NEW!

Accessories



Recommended accessories:

Blank cleat AS for opposing formwork
2 off required per installation box

979 532 01

200

Support spars for fixing the IBTronic housing in
opposing formwork. Always used in conjunction with
blank cleat AS. Spar length = Wall thickness **minus 1 cm**

Wall thickness

Spar length

18 cm

17 cm

979 670 01

400/50

20 cm

19 cm

979 690 01

400/50

24 cm

23 cm

979 730 01

300/50

25 cm

24 cm

979 740 01

300/50

30 cm

29 cm

979 790 01

200/50

Fermacell®-plate

for retrofitting in H120TT-P-0

979 801 01

10

Hole cutter, Ø 120 mm

925 121 01

1

(*) Electronic transformers up to max. 150 W (e.g. OSRAM HALOTRONIC®, HTM 150 Mouse)(*1)
For the installation of VDE approved luminaires to DIN EN 60598 (VDE 0711) and with  or  marking
Maximum installation height Low-voltage luminaires: 120 mm, High-voltage luminaires: 125 mm, Lamp wattage rating max. 50 W accessories

Table 1: Properties of the materials used for the IBT range

Material:	Products used in:	Weak acid	Strong acid	Weak alkali	starke Lauge	Alcohol	Petrol	Benzene	Mineral oil	Diesel	Ammonia	Vegetable fats	Animal fats	Free of halogen heavy metals, PVC an silicon	Burning characteristics to VDE 0471 / EN 60695 / UL 94	Max. ambient temperature, short term (1 hour)	Application temperature range, Continuous
Polystyrene, impact resistant	UP 015-distribution set, Sealing cap K	●	◐	●	●	●	⊗	⊗	◐	⊗	●	◐	◐	Yes ¹	960°C / V-2	+80°C	-40°C to +70°C
Polypropylen	IBT boxes IBTronic IBTronic-TT	●	◐	●	◐	●	◐	◐	◐	●	●	●	●	Yes	650°C / HB	+120°C	-30°C to +100°C
● = resistant ◐ = limited resistance ⊗ = not resistance																	

1) The base material is halogen-free. Only the flame-proofing additive added to the base material has a very low percentage (up to approximately 6%). All data is according to the details given by the manufacturers, with no guarantee.

Manufacturing process in concrete structures.

1. Large panel structures

means the industrial production of wall and ceiling elements in a concrete factory and is done by pouring the concrete into horizontal or vertical formwork (battery formwork, vibratory and tilting tables etc.) The pre-cast concrete components are transported to the building site and assembled there. The production of partially finished ceilings (filigree ceilings) saves setting up ceiling formwork on site.

Installation boxes U 86 and U 120 can for example be inserted into the filigree ceilings.

They protrude from the ceiling panel and are fitted with installation conduits on the building site.

After this concrete is poured in up to the full ceiling thickness.

2. Site cast or poured concrete.

means an individual installation on site. Here a distinction is made between horizontal formwork (e.g. ceiling formwork) with only one formwork side and vertical formwork with two formwork sides (working formwork with opposing formwork).

Working formwork (see also page 13 Direct Formwork).

Fitting the boxes and receptacles onto the first, existing formwork (working formwork) is ideal because it is particularly easy and quick.

After fitting the conduits into the system and inserting the steel reinforcement, the second formwork (opposing formwork) is set to the distance required for the wall. After pouring and setting of the concrete, the working formwork removed, at the same time pulling off the front faces of the receptacles and boxes. Now the operating equipment (switches and plug sockets) can be fitted.

Opposing formwork (see also page 14)

When installing the boxes and receptacles opposite to the existing formwork, we speak of opposing formwork.

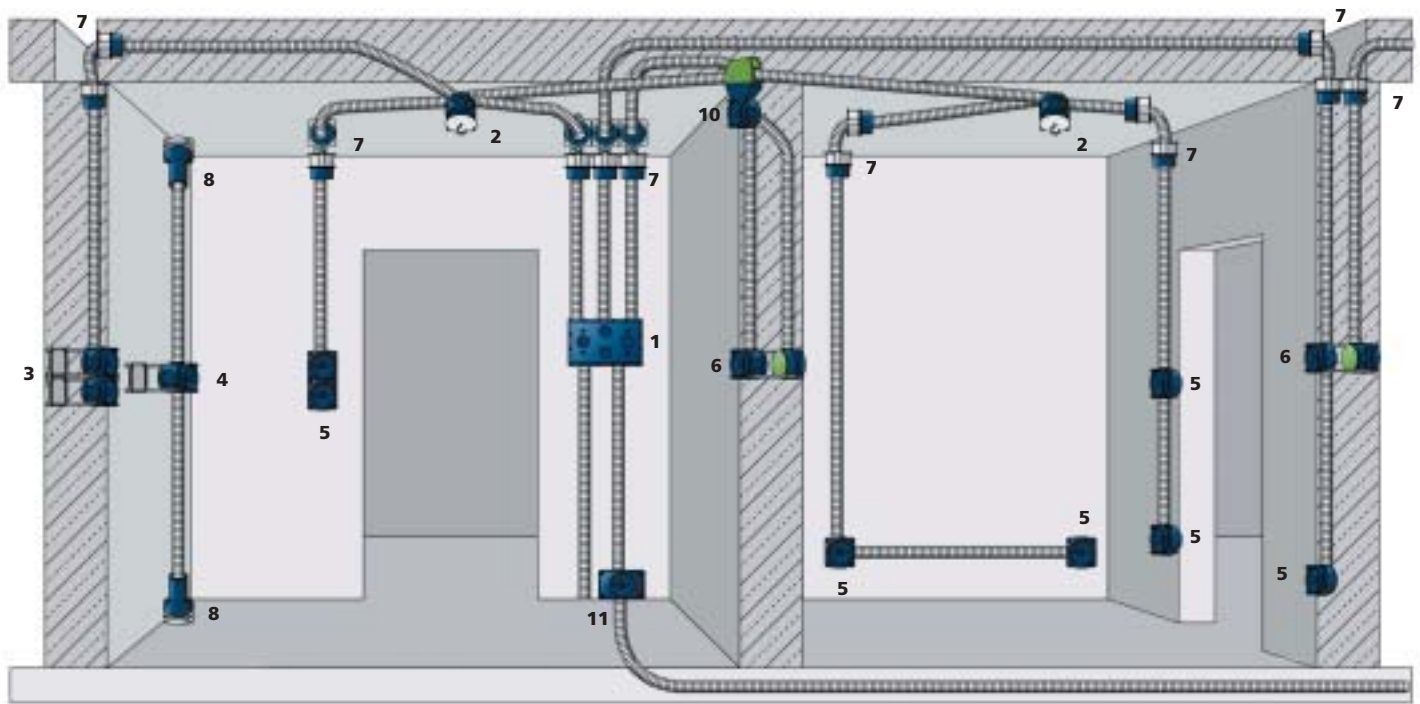
Here firstly the blank base is mounted on the working formwork, then the boxes and receptacles are set to the distance required for the wall with support spars. The length of the support spar for this is „wall thickness **minus 1 cm**“.

regardless of which boxes and receptacles are used. The only thing important for the length of the support spar is the thickness of the wall!

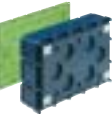









The necessary stability for the system is achieved due to the pressure exercised on the structure as the second formwork is „positioned“.

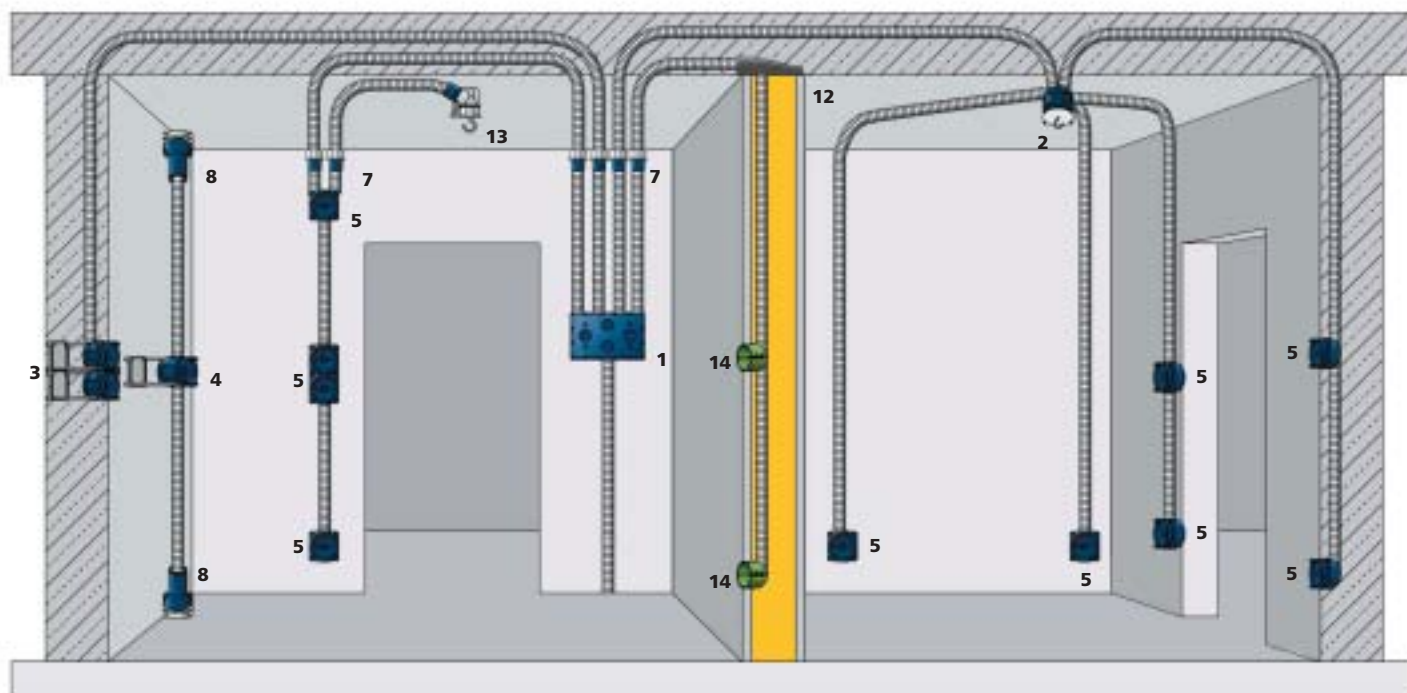
N.B.: The formwork standing time needed for the concrete to set must be complied with.

All details are given without guarantee. We reserve the right to make improvements in the interests of technical progress.






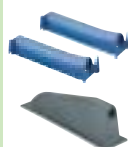



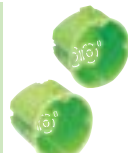


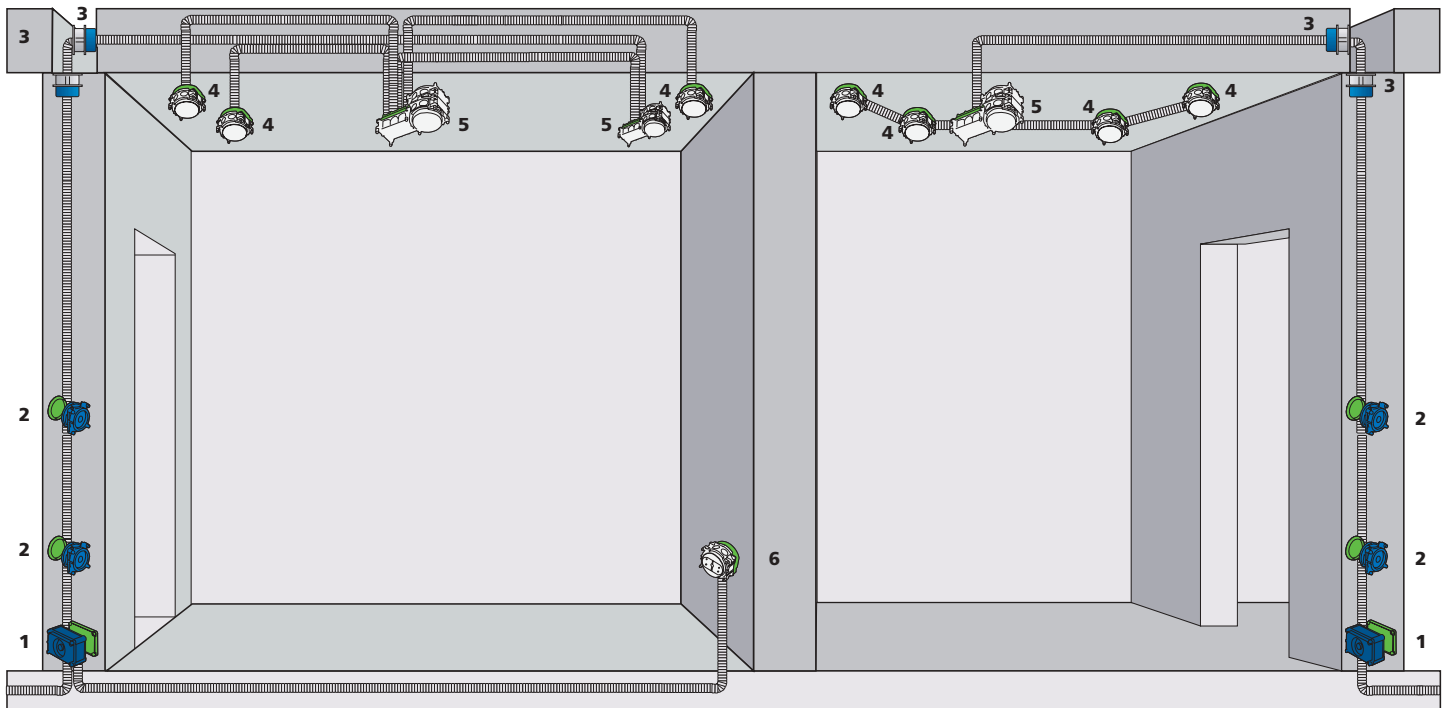
Precast component construction

Nr.	Description	Order. Ref. No.	Page	Nr.	Description	Order. Ref. No.	Page
1	 Installation box K 4 Distribution set UP 015	980 004 01 986 000 01	35 35	6	 U 71 receptacle or alternatively U 71 Equipment junction box as a double box with 2 support spars	971 045 01 971 065 01 979 570 01	28 28 28
2	 U 71 ceiling junction box with ceiling hook and sealing cap	971 066 01 979 117 01 979 100 01	30 30 30	7	 Conduit ferrule alternatively with conduit elbow for small conduit bend angle	970 518 01 970 425 01	31 31
3	 U 71 Equipment junction box with 2 support spars and 1 blank base for opposing formwork	971 065 01 979 570 01 979 530 01	28 28 28	8	 Cone funnel for risers	970 618 01	32
4	 U 71 Large conduit box with 2 support spars and 1 blank base for opposing formwork	972 960 01 979 570 01 979 530 01	29 29 29	10	 Dome box and supplementary option connection box	970 550 01 970 690 01	33 33
5	 U 71 receptacle or alternatively U 71 equipment junction box	971 045 01 971 065 01	28 28	11	 K0 Transfer box	977 001 01	34









Site cast concrete construction

Nr.	Description	Order. Ref. No.	Page	Nr.	Description	Order. Ref. No.	Page
1	 Installation box K 4 Distribution set UP 015	980 004 01 986 000 01	35 35	7	 Conduit ferrule alternatively with conduit elbow for small conduit bend angle	970 518 01 970 425 01	31 31
2	 U 71 ceiling junction box with ceiling hook and sealing cap	971 066 01 979 117 01 979 100 01	30 30 30	8	 Cone funnel for risers	970 618 01	32
3	 U 71 Equipment junction box with 2 support spars and 1 blank base for opposing formwork	971 065 01 979 570 01 979 530 01	28 28 28	12	 DAL 1 ceiling outlet cleat, M20 DAL 2 ceiling outlet cleat, M25 DAL 4 ceiling outlet cleat, M32	970 705 01 970 706 01 970 704 01	33 33 33
4	 U 71 Large conduit box with 2 support spars and 1 blank base for opposing formwork	972 960 01 979 570 01 979 530 01	29 29 29	13	 Conduit ferrule/conduit elbow for installation in concrete for conduit type M20 conduit type M25 conduit type M32	970 720 01 970 725 01 970 732 01	31
5	 U 71 receptacle or alternatively U 71 equipment junction box	971 045 01 971 065 01	28 28	14	 HW 050 Cavity wall-receptacle or HW 065 Cavity wall junction box See Full Catalogue	920 050 01 920 065 01	



Precast component construction

Nr.	Description	Order. Ref. No.	Page	Nr.	Description	Order. Ref. No.	Page
1	 K0 Transfer box	977 001 01	34	6	 IBTronic H120-S2 outlet aperture 2-way receptacle	976 002 01	52
2	 U 71 receptacle or alternatively U 71 equipment junction box	971 045 01 971 065 01	28 28				
3	 Conduit ferrule alternatively with conduit elbow for small conduit bend angle	970 518 01 970 425 01	31 31				
4	 IBTronic H120-P outlet aperture Fermacell® plate variable up to Ø 100 mm or alternatively see P. 52-55	976 004 01	52				
5	 IBTronic TT H120TT-P-0 outlet aperture Fermacell® plate variable up to Ø 100 mm or alternatively see P. 52-55	976 304 01	55				

Suitable installation conduits

IBT-boxes and boxes are equally suitable for smooth and corrugated Installation conduits.

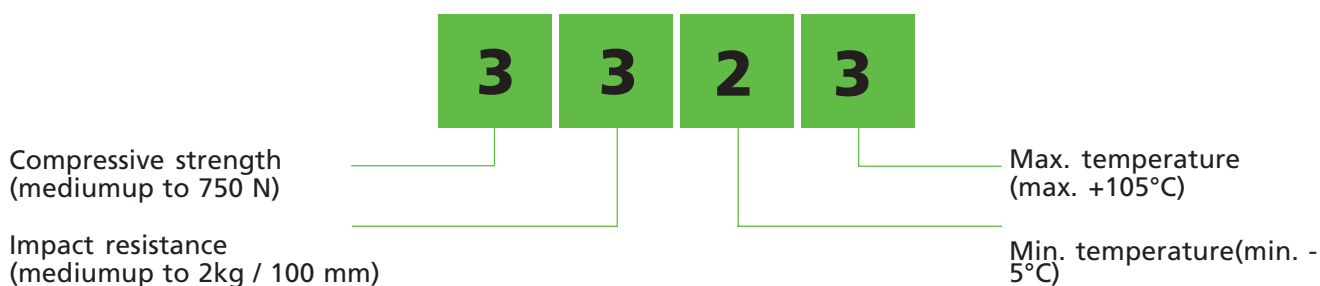
DIN EN 50086 applies here. The nominal sizes have the following external gradations (to DIN/EN 60423) in mm:

EN 16, EN 20, EN 25, EN 32, EN 40, EN 50, and EN 63

With these new standards the designations also alter:

From the former letter code (e.g. „AS“ = heavy compressive stress) a numeric coding with at least 4 digits is now used , from which the most important properties of the products can be read off, such as compressive strength, impact resistance and lower and upper application temperature. A conduit with the following code would be suitable for installation in concrete:

Classification code for conduits to DIN EN 50086



First character: compressive strength

1 = very light 125 N	2 = light 320 N	3 = medium 750 N	4 = heavy 1250 N	5 = very heavy 4000 N
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Second character: impact resistance (drop energy)

1 = very light 0.5kg/100mm	2 = light 1kg/100mm	3 = medium 2kg/100mm	4 = heavy 2kg/300mm	5 = very heavy 6.8kg/300mm
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Third character: Minimum temperature range Transport, Use, Installation

1 = + 5°C	2 = - 5°C	3 = - 15°C	4 = - 25°C	5 = - 45°C
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Fourth character: Maximum temperature range Transport, Use, Installation

1 = + 60°C	2 = +90°C	3 = +105°C	4 = +120°C	5 = +150°C
------------	-----------	------------	------------	------------

You can get further information e.g. from the conduit manufacturers:

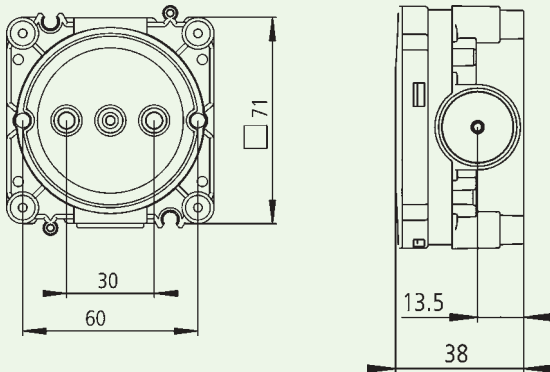
Fränkische Rohrwerke, Gebr. Kirchner GmbH & Co. KG, Hellinger Str. 1, 486 Königsburg / Bayern, telephone: +49 (0) 95 26 / 88-0

Hegler Plastik GmbH, Hegler Str. 8, 714 Oerlenbach, telephone: +49 (0) 25 / 66-0

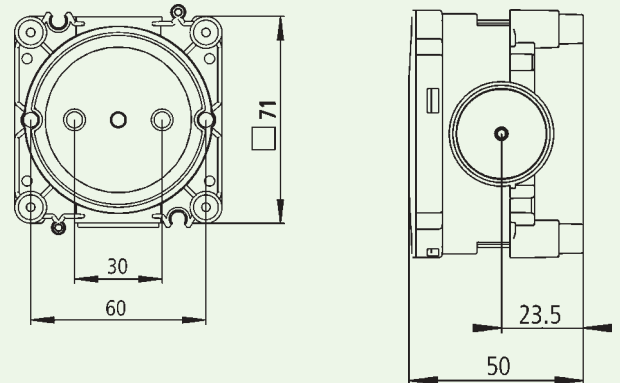
Pipelife Deutschland GmbH, Steinfeld 40, 26160 Bad Zwischenahn, telephone: +49 (0) 44 03 / 6 05-0

Pipelife Austria GmbH & Co. KG, IZ NO-Süd, Straße 1, A-2355 Wiener Neudorf, telephone: +43 (0) 2236 / 6702-0

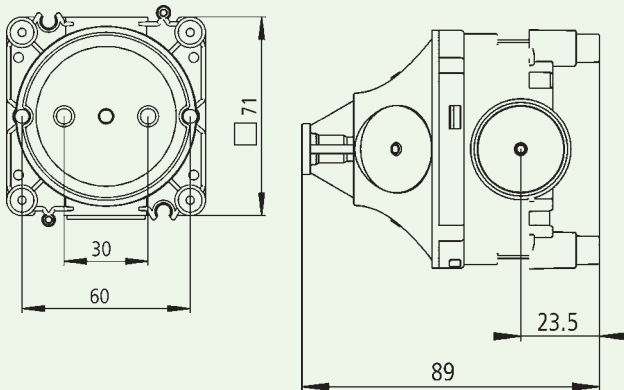
U 71 Flat box (Order. Ref. No. 971 035 01)



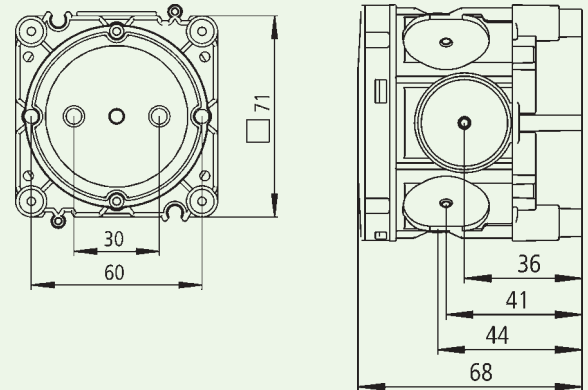
U 71 Receptacle (Order. Ref. No. 971 045 01)



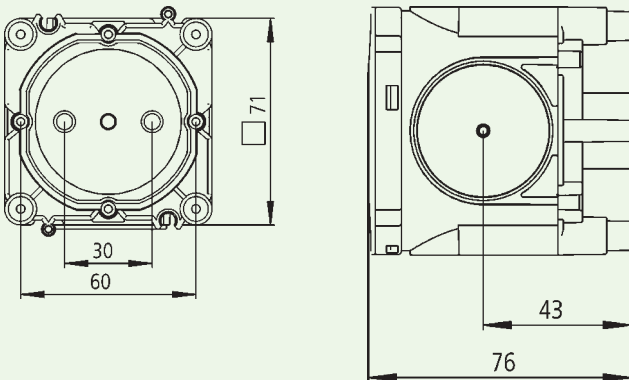
U 71 Dome box (Order. Ref. No. 971 047 01)



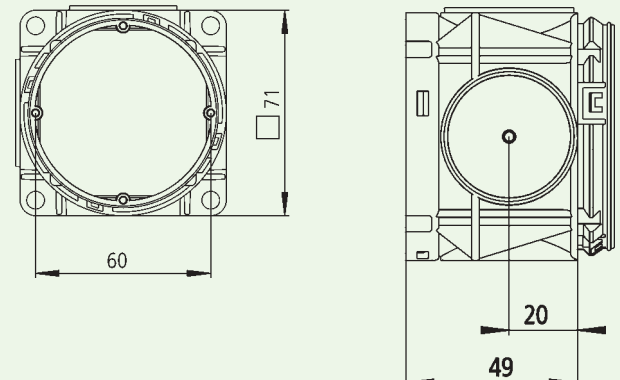
U 71 Equipment junction box (Order. Ref. No. 971 065 01)



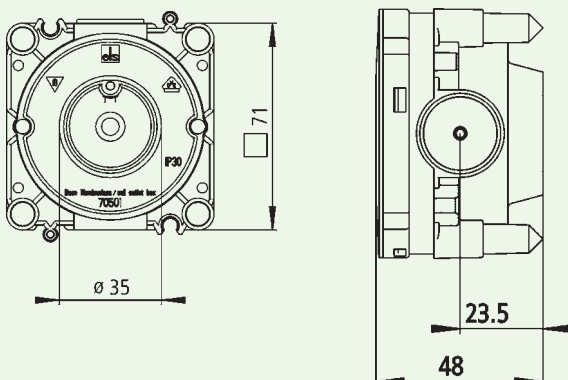
U 71 Large conduit box (Order. Ref. No. 972 960 01)



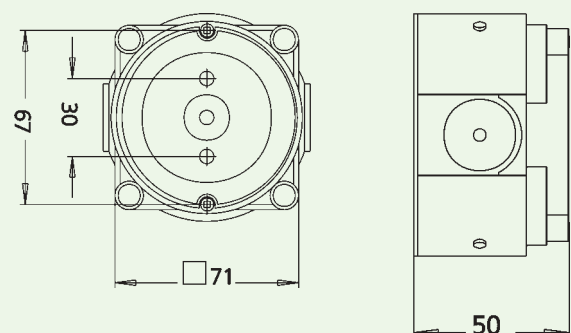
U 71 Deep box (Order. Ref. No. 972 945 01)



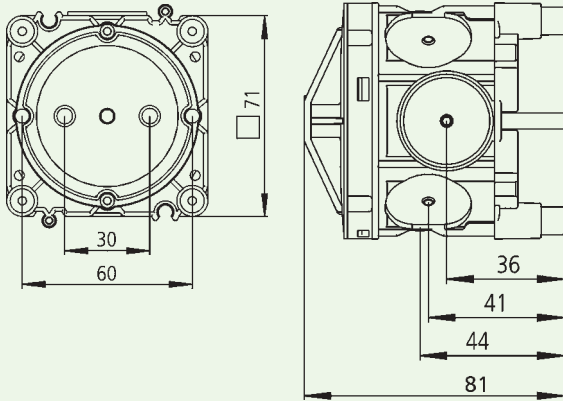
Wall outlet box (Order. Ref. No. 970 560 01)



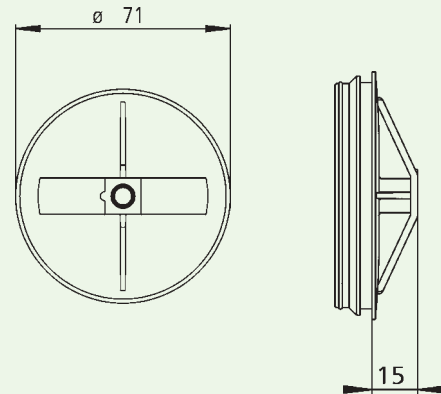
Perilex®-receptacle (Order. Ref. No. 973 050 01)



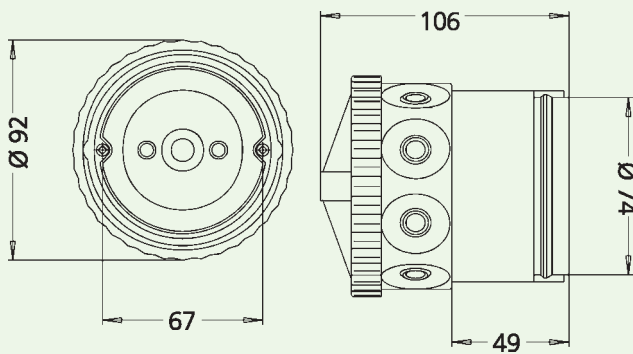
U 71 Ceiling branch box (Order. Ref. No. 971 066 01)



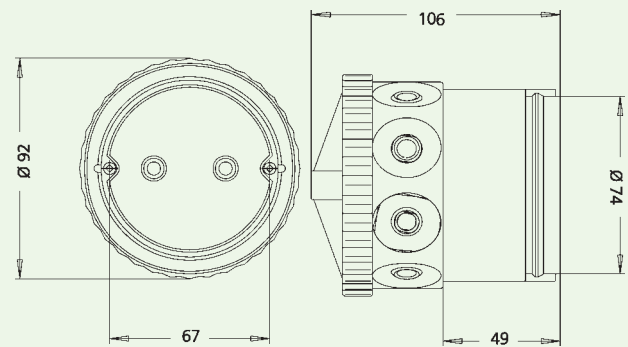
Threaded base M5 (Order. Ref. No. 979 110 01)



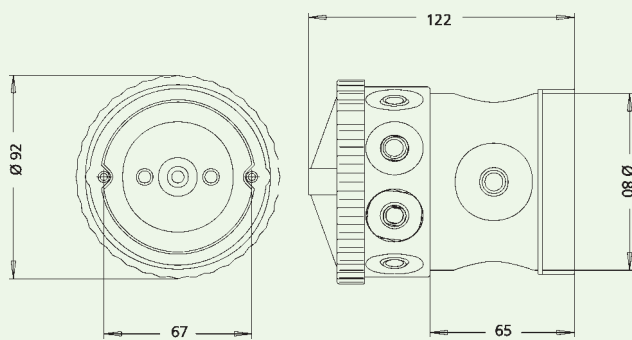
U 86 Universal-ceiling box (Order. Ref. No. 973 081 02)



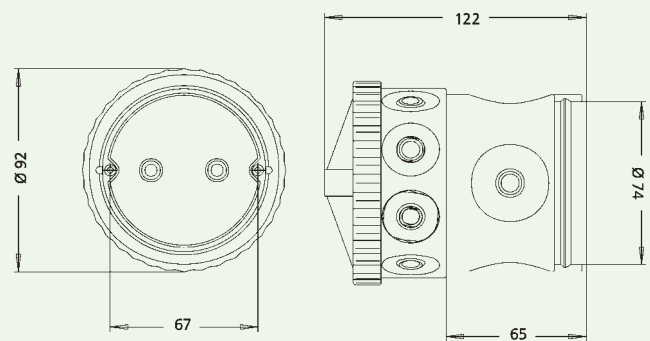
U 86 K (Order. Ref. No. 973 781 01)



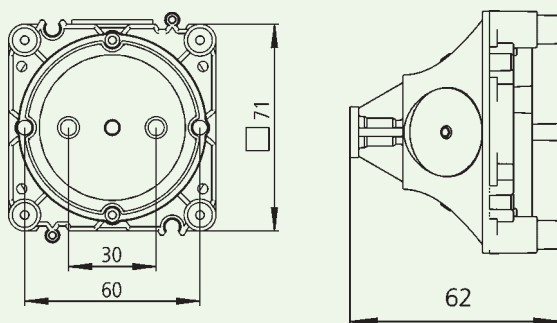
U 120 Large conduit ceiling box (Order. Ref. No. 973 312 01)



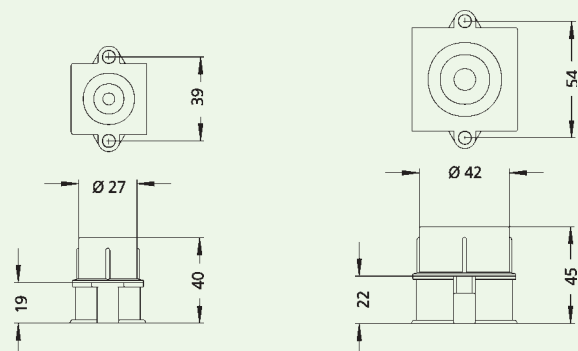
U120 K (Order. Ref. No. 973 712 01)



Dome funnel (Order. Ref. No. 970 540 01)

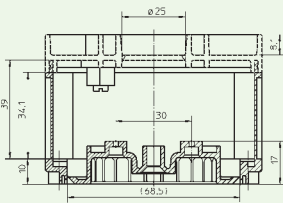


**Conduit ferrules
(from Order. Ref. No. 970 516 01 + 970 523 01)**

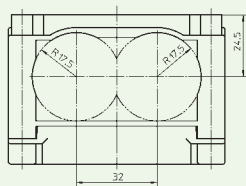
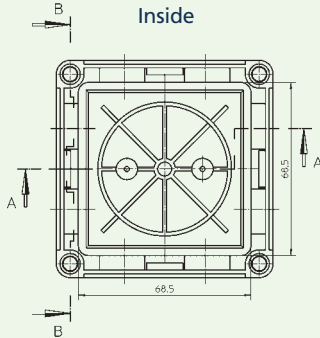


BS 1 (Order. Ref. No. 974 001 01)

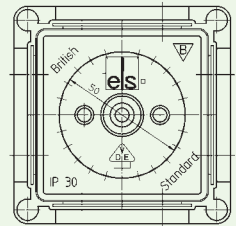
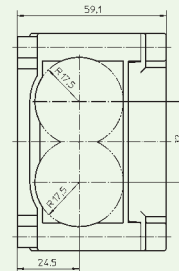
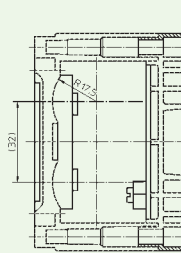
Section A-A



Inside

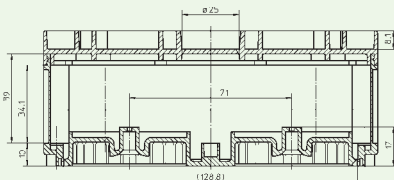


Section B-B

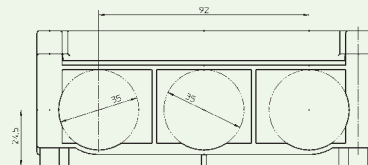


BS 2 (Order. Ref. No. 974 002 01)

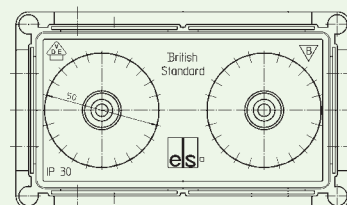
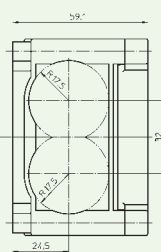
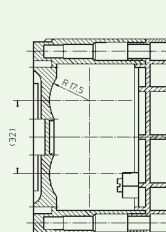
Section A-A



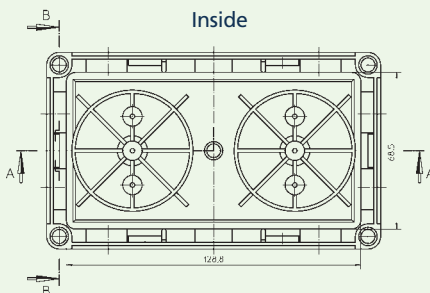
View turned through 180°



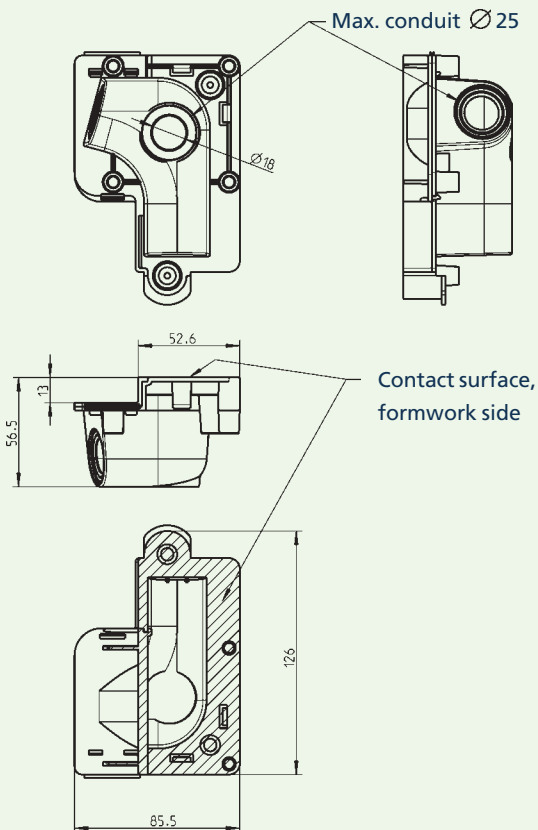
Section B-B



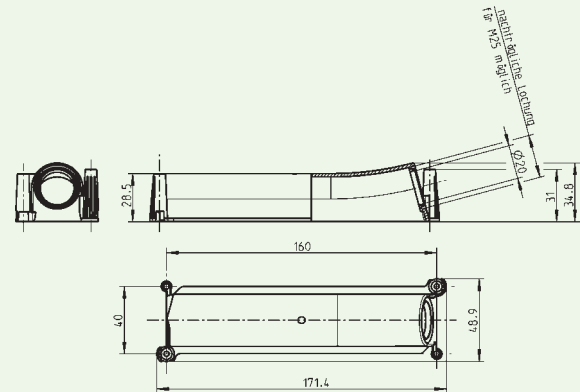
Inside



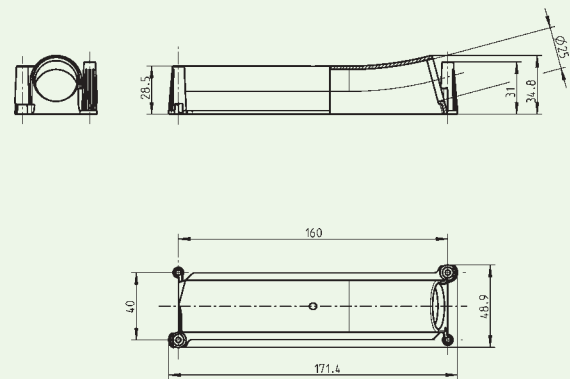
Outlet (Order. Ref. No. 970 716 01)



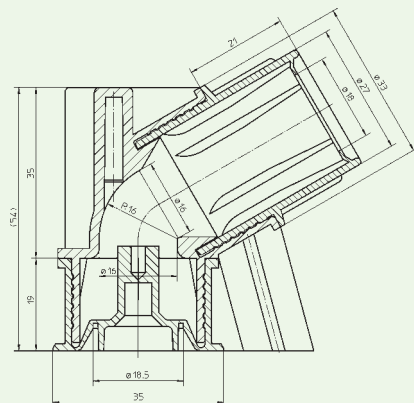
Universal outlet cleat DAL 1 (Order. Ref. No. 970 705 01)



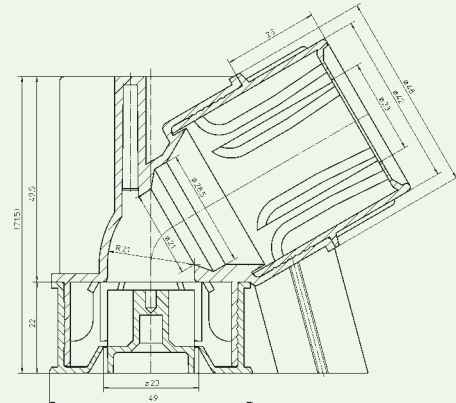
Universal outlet cleat DAL 2 (Order. Ref. No. 970 706 01)



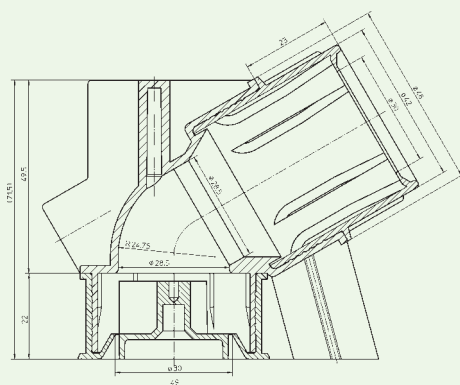
Rohrkrümmer (Order. Ref. No. 970 720 01)



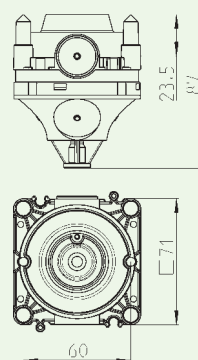
Conduit elbow (Order. Ref. No. 970 725 01)



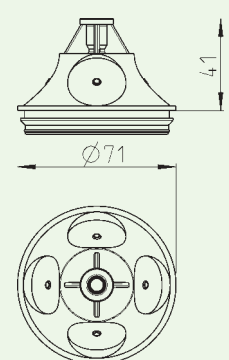
Conduit elbow (Order. Ref. No. 970 732 01)



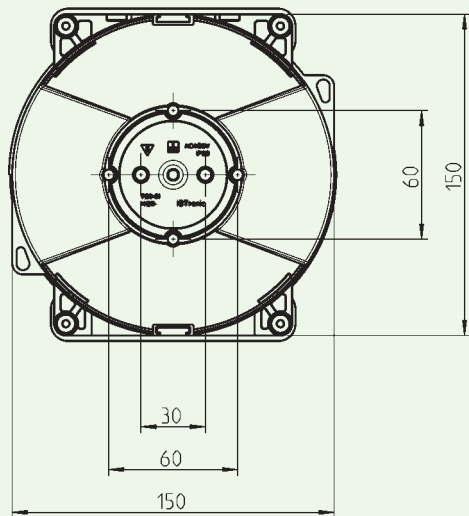
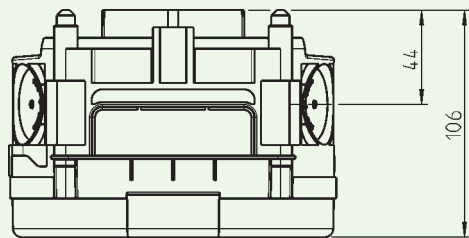
U 71 (Order. Ref. No. 971 548 01)



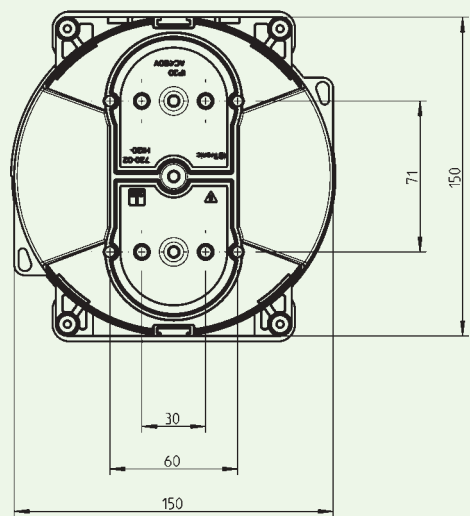
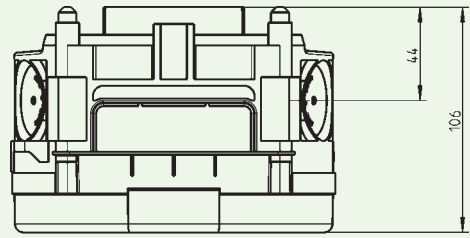
U 71 (Order. Ref. No. 971 748 01)



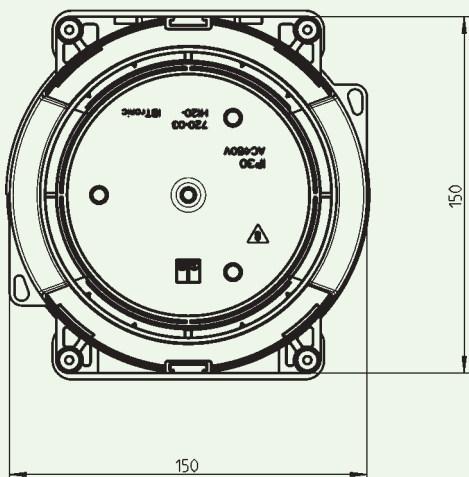
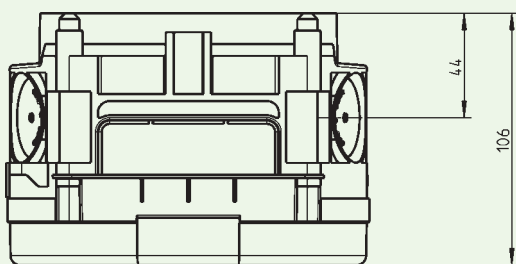
IBTronic H120-S1 (Order. Ref. No. 976 001 01)



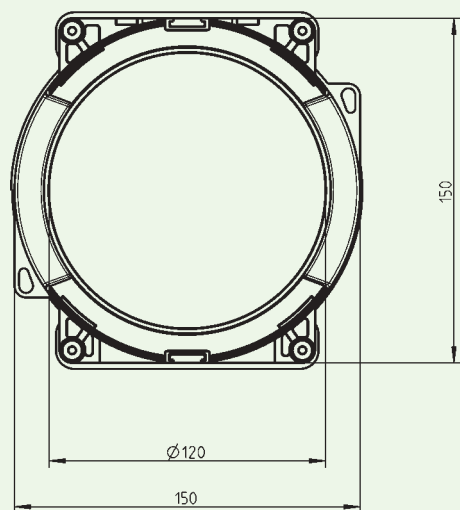
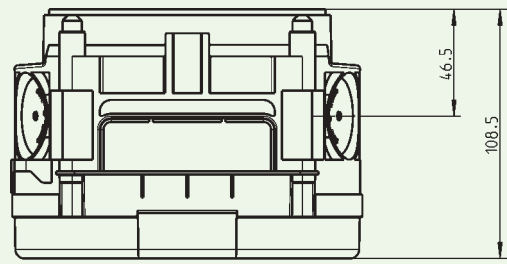
IBTronic H120-S2 (Order. Ref. No. 976 002 01)



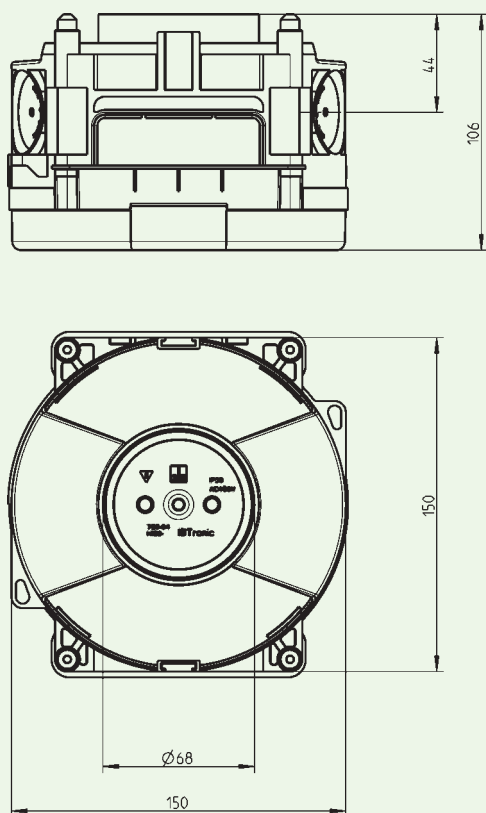
IBTronic H120-0 (Order. Ref. No. 976 003 01)



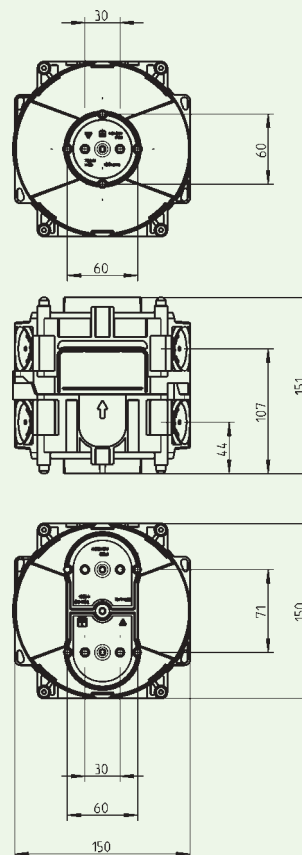
IBTronic H120-P (Order. Ref. No. 976 004 01)



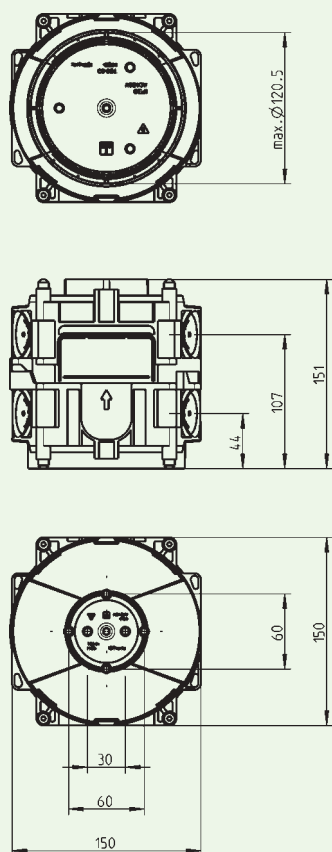
IBTronic H120-68 (Order. Ref. No. 976 005 01)



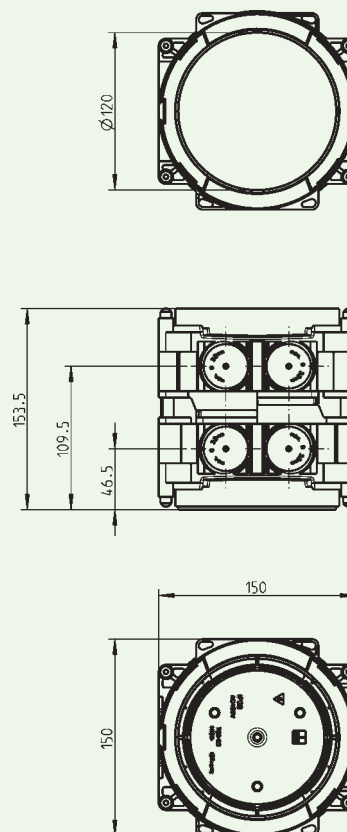
IBTronic H120-S1-S2 (Order. Ref. No. 976 101 01)



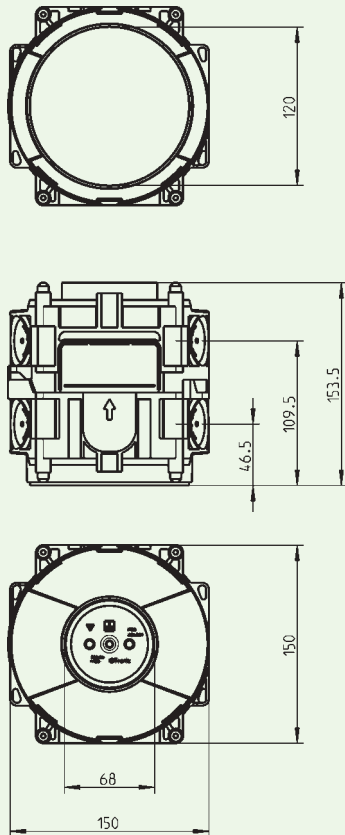
IBTronic H120-S1-0 (Order. Ref. No. 976 103 01)



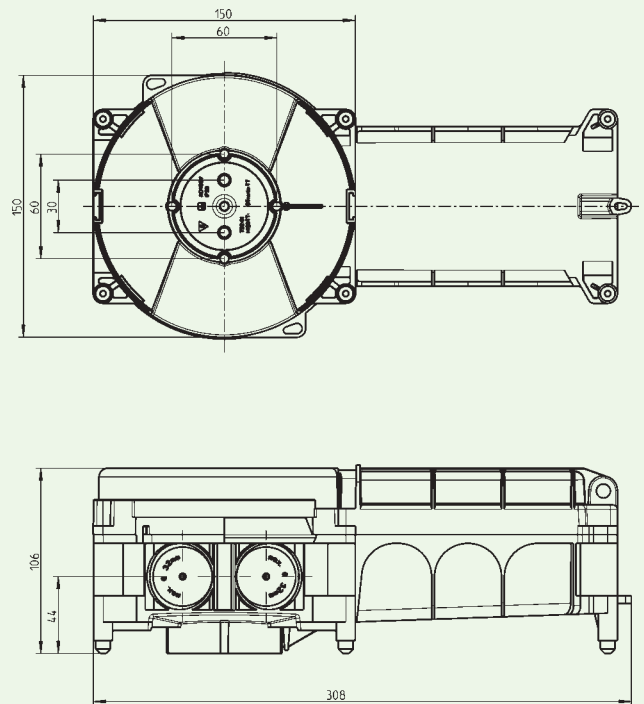
IBTronic H120-P-0 (Order. Ref. No. 976 104 01)



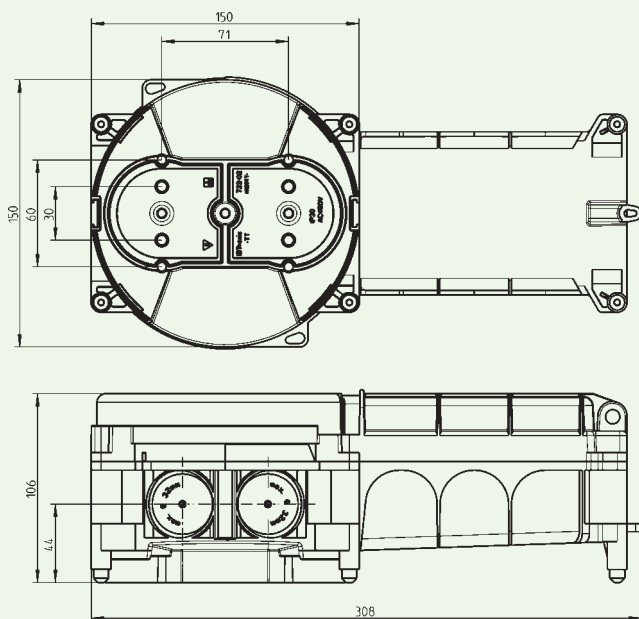
IBTronic H120-68 (Order. Ref. No. 976 105 01)



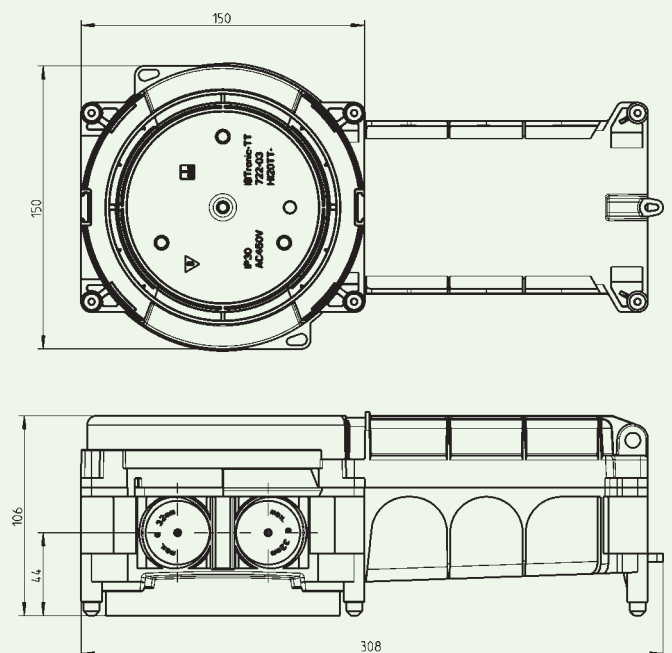
IBTronic-TT H120TT-S1 (Order. Ref. No. 976 201 01)



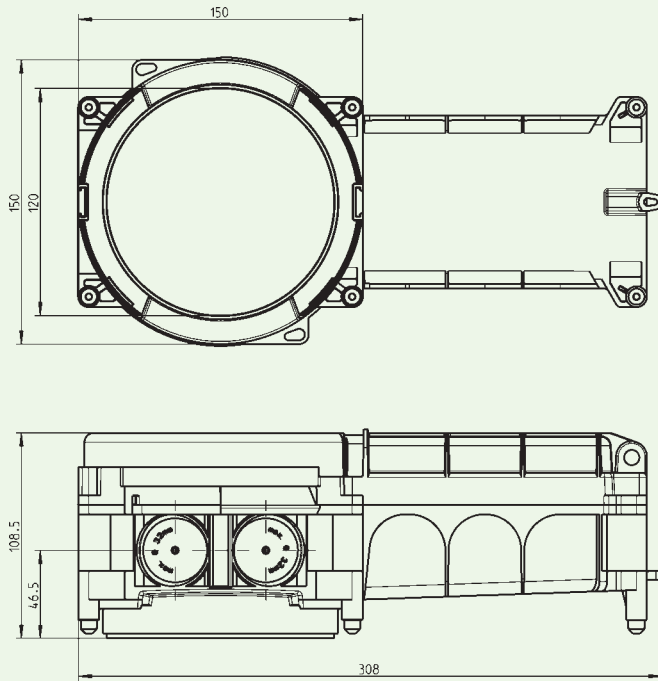
IBTronic-TT H120TT-S2 (Order. Ref. No. 976 202 01)



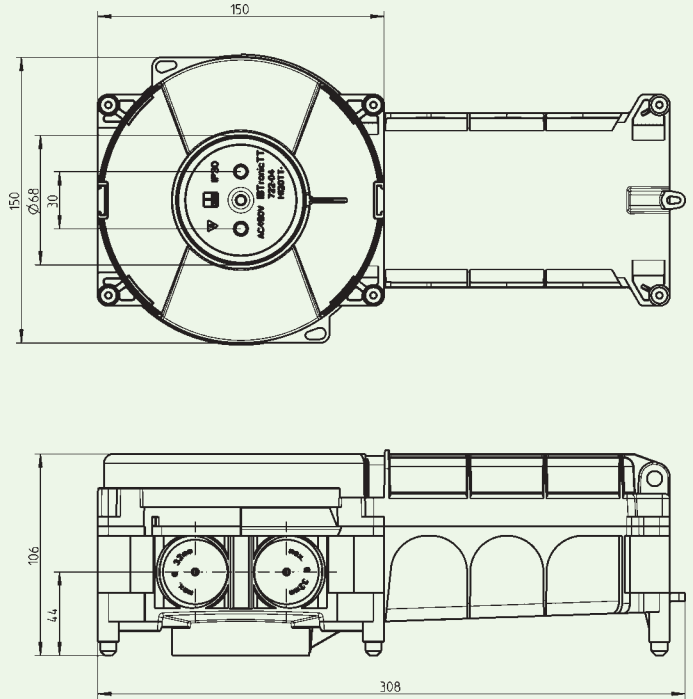
IBTronic-TT H120TT-0 (Order. Ref. No. 976 203 01)



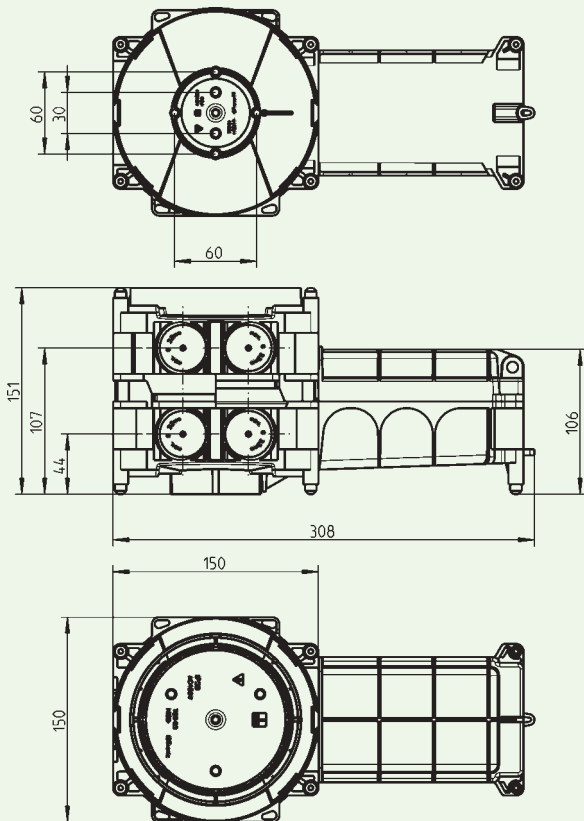
IBTronic-TT H120TT-P (Order. Ref. No. 976 204 01)



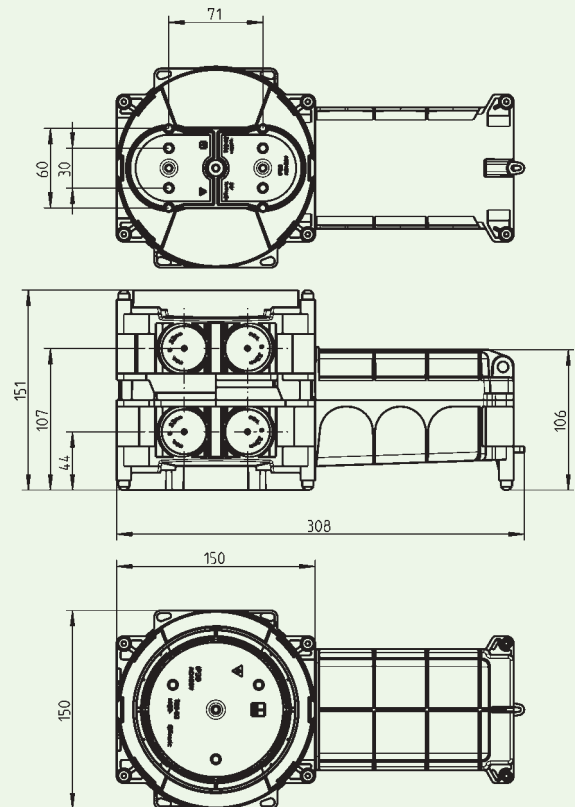
IBTronic-TT H120TT-68 (Order. Ref. No. 976 205 01)



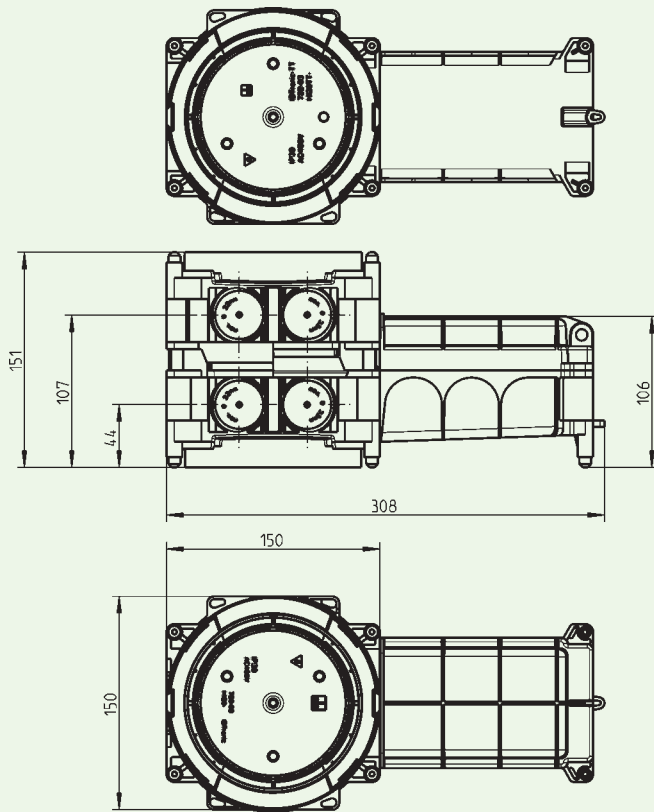
IBTronic-TT H120TT-S1-0 (Order. Ref. No. 976 301 01)



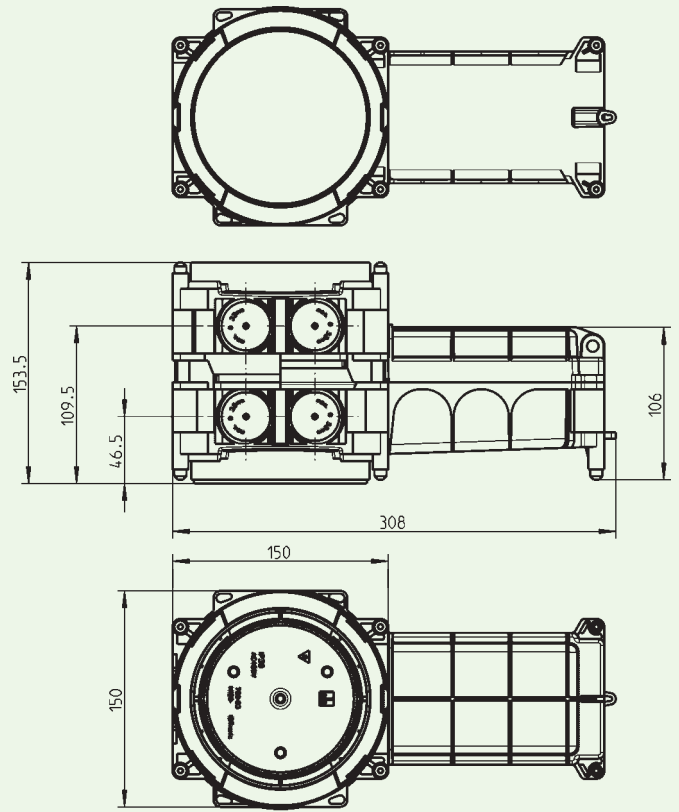
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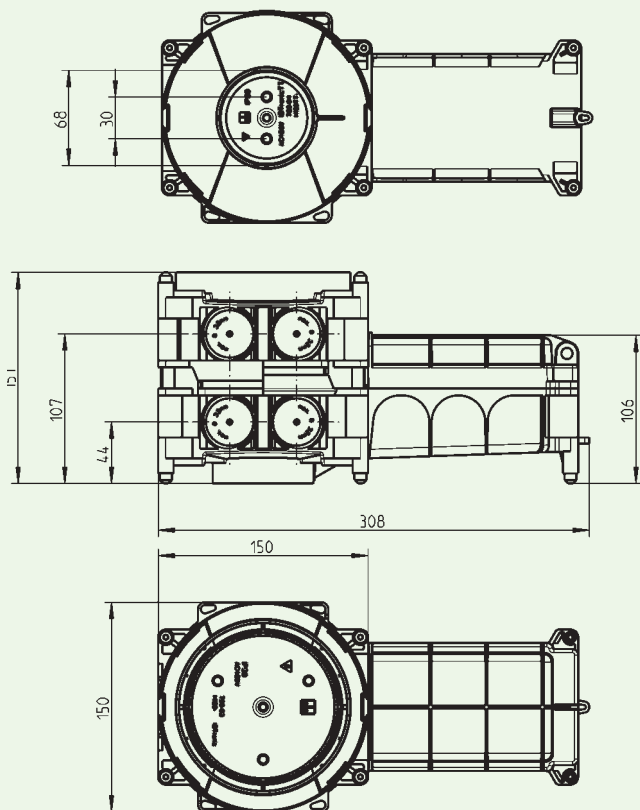
IBTronic-TT H120TT-0-0 (Order. Ref. No. 976 303 01)



IBTronic-TT H120TT-P-0 (Order. Ref. No. 976 304 01)



IBTronic-TT H120TT-68-0 (Order. Ref. No. 976 305 01)



Fire proofing notes

	F30 ceiling IBTronic	F30 ceiling IBTronic-TT
	Axial spacing: No restriction	Axial spacing: No restriction
Ferro concrete ceilings with Screed*		
Ferro concrete ceilings without screed or ferro-concrete walls		
	<p>Under to the building inspectorate guidelines, it is required to classify wall and ceiling structures into the Fire Resistance Class „F30“ or „F90“ respectively, depending on the type and use of the building. The table shows the conditions under which the IBTronic and IBTronic-TT enclosures can be used in ferro-concrete walls and ceilings.</p>	<p>For ferro-concrete ceilings in „F30“ walls and ceiling structures to which no screed is to be applied, the remaining residual cross sectional thickness above the built in enclosures must be at least 50 mm. For ferro-concrete ceilings in „F90“ walls and ceiling structures to which no screed is to be applied, the remaining residual cross sectional thickness above the built in enclosures must be at least 80 mm.</p>

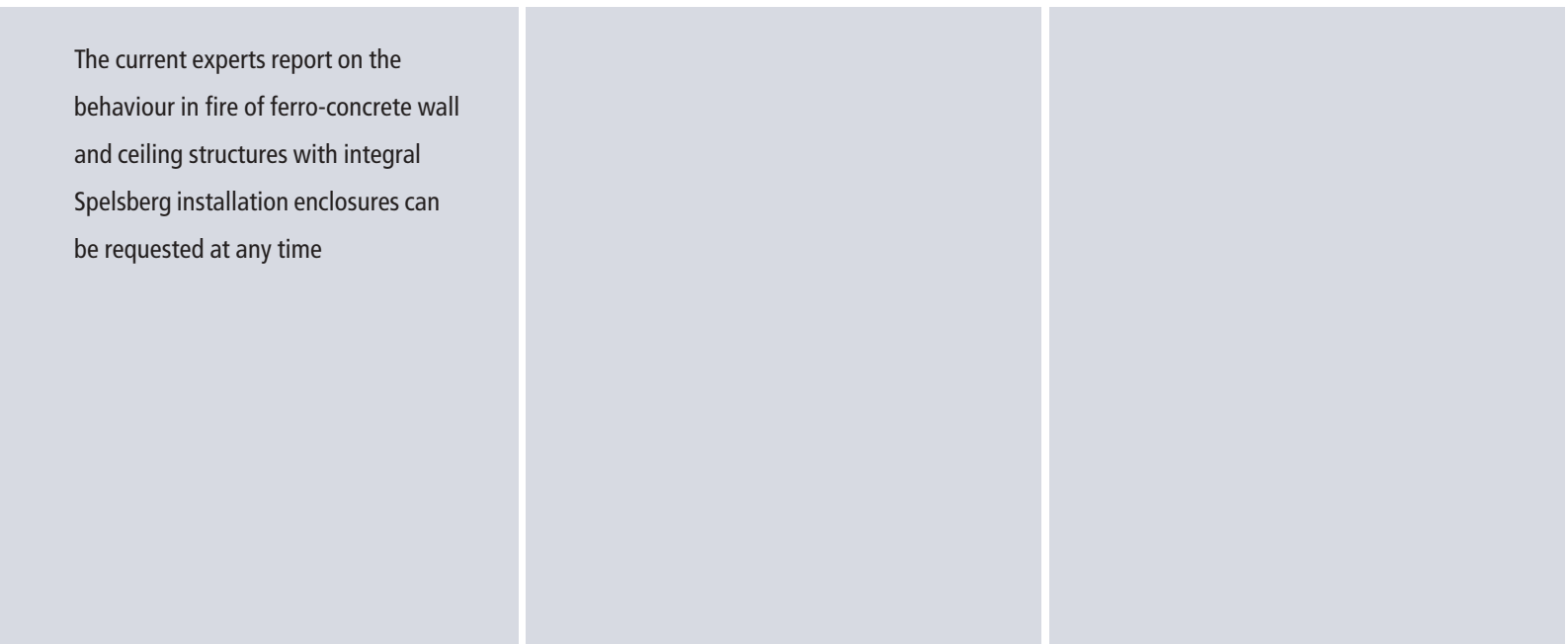
	F90 ceiling IBTronic	F90 ceiling IBTronic-TT
	Axial spacing: ≥ 1 m	Axial spacing: ≥ 1 m
Ferro concrete ceilings with screed**		
Ferro concrete ceilings without screed or ferro-concrete walls		

* On the ferro-concrete ceilings there must be present a screed of Building Material Class A, a mastic asphalt screed, a rolled screed or a floating screed to DIN 41024:1994-03, in each case with a thickness of $d \geq 25$ mm

** On the ferro-concrete ceilings there must be present a screed of Building Material Class A, a mastic asphalt screed, a rolled screed or a floating screed to DIN 41024:1994-03, in each case with a thickness of $d \geq 30$ mm

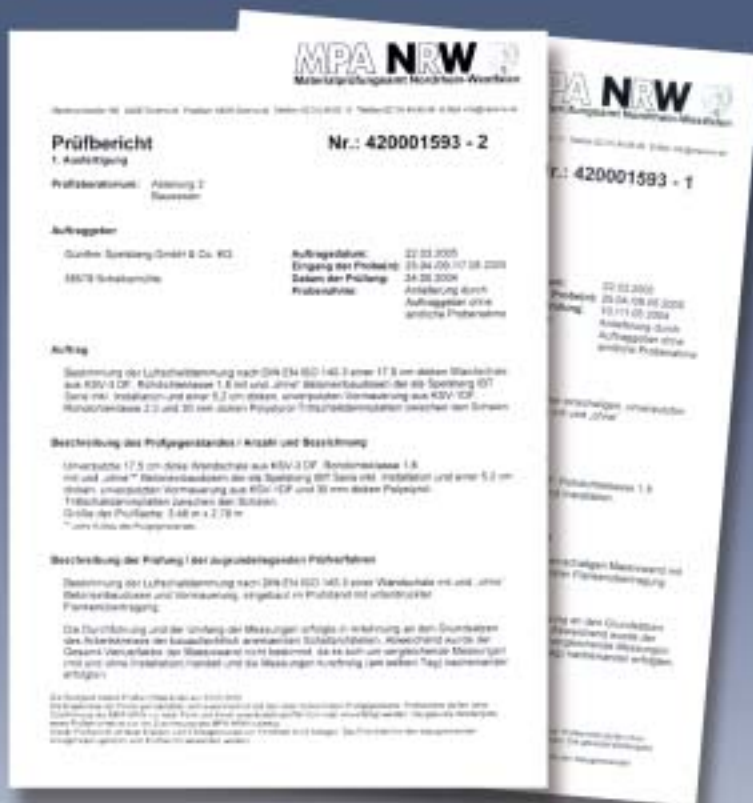
The distance in (...) refers to the high installation enclosure

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72

Sound proofing notes



The IBTronic and IBTronic-TT enclosures have been tested in single skin solid walls and multi-skin wall shells. The airborne sound insulation measurements show that the Spelsberg IBT / IBTronic and IBTronic-TT concrete installation enclosures do not fundamentally affect the deadening of airborne sound.

The current test certificate on determination of the deadening of airborne sound can be requested at any time.



Order No..	Description	Discount Group	Price EUR/100 VPE*	Pack qty
46050601	Terminal block 6 ²	140	477.00	1
46051001	Terminal block 10 ²	140	491.00	1
46051601	Terminal block 16 ²	140	907.00	1
46053501	Terminal block 25 ²	140	3.010.00	1
84000401	Terminal block 2.5- 4 ²	120	124.00	160
92510001	Sealing cap 67	100	40.00	300/10
92510101	Sealing cap 60	100	40.00	300/10
92512101	Hole cutter 120.	100	13,200.00	1
97022001	Conduit connector M20	520	57.80	100
97022501	Conduit connector M25	520	90.60	50
97023201	Conduit connector M32	520	131.00	25
97024001	Conduit connector M40	520	224.00	25
97031801	Conduit ferrule - sealing plug M20520	13.10	1500/250	
97032301	Conduit ferrule - sealing plug M25520	18.50	750/125	
97033001	Conduit ferrule - sealing plug M32520	33.80	300/50	
97042501	Conduit elbow small	520	42.00	300
97043001	Conduit elbow medium	520	96.00	120
97043501	Conduit elbow large	520	96.00	120
97050001	Blanking plug. f. Conduit ferrule.520	25.10	150	
97050501	Blanking plug. f. Conduit ferrule.520	37.00	90	
97051801	Conduit ferrule 18 mm	520	37.00	210
97052301	Conduit ferrule 23 mm	520	62.00	90
97053001	Conduit ferrule 30 mm	520	62.00	90
97053701	Conduit ferrule 37 mm	520	303.00	100
97054001	Dome funnel	520	99.00	150
97055001	Dome box	520	106.00	100
97056001	Wall outlet box	520	123.00	100
97056201	Sealing cap	520	29.00	600/100
97061801	Cone funnel 18 mm	520	120.00	70
97062301	Cone funnel 23 mm	520	222.00	60
97063001	Cone funnel 30 mm	520	222.00	60
97063701	Cone funnel 37 mm	520	222.00	1
97069001	Junction box	520	227.00	1
97070401	Universal Outlet cleat M32/M40 520	510.00	50	
97070501	Universal Outlet cleat M20	520	106.00	100
97070601	Universal Outlet cleat M25	520	106.00	100
97071601	Universal outlet 90°	520	169.00	90
97072001	Conduit elbow small complete	520	118.00	300
97072501	Conduit elbow medium complete520	237.00	120	
97073201	Conduit elbow large complete	520	240.00	120
97074801	U 71 Dome cover with threaded bush	520	152.00	150
97103501	U 71 Flat box	520	121.00	100
97104501	U 71 receptacle	520	117.00	100
97104502	U 71 D receptacle	520	117.00	100
97104701	U 71 dome box	520	115.00	100
97106501	U 71 Branch switch box	520	142.00	80
97106601	U 71 ceiling -Branch box	520	175.00	50
97124801	U 71 Dome box with threaded bush520	152.00	100	
97136501	U 71 Equipment junction Box 3-piece	520	168.00	80

Order No..	Description	Discount Group	Price EUR/100 VPE*	Pack qty
97154801	U 71 Ceiling connection box	520	158.00	100
97174501	U 71 K Switch box	520	117.00	100
97174801	Dome threaded bush U71	520	85.00	100
97176501	U 71 K	520	142.00	80
97176601	U 71 K ceiling box	520	175.00	50
97186501	U 71 Equipment junction Box K 3-piece	520	168.00	80
97186601	U 71 K ceiling box	520	175.00	50
97276001	Large Conduit box K	520	136.00	75
97292501	U 71 Deep box M25	520	100.00	100
97294501	U 71 Deep box M32	520	92.00	100
97296001	U 71 Large Conduit box	520	147.00	75
97305001	Perilex-Box	520	208.00	50
97308102	U 86 Universal-ceiling box	520	200.00	50
97331201	U 120 3-piece	520	289.00	35
97371201	U 120 K 2-piece	520	211.00	40
97371301	U 120	520	278.00	35
97378101	U 86 K	520	202.00	50
97378301	U 86	520	241.00	50
97400101	Universal box BS 1	520	371.00	50
97400201	Universal box BS 2	520	465.00	30
97410001	Sealing cap BS 1	520	123.00	150/25
97410201	Sealing cap BS 2	520	183.00	90/15
97412001	Assembly bridge BS 1/BS 2	520	27.00	1000
97413001	Installation screw 3.5 x 30	520	9.78	4000/1000
97413501	Installation screw 3.5 x 40	520	12.00	3000/750
97415001	Installation screw 3.5 x 50	520	16.30	2000/500
97443101	Blank base BS 1	520	75.30	100
97443201	Blank base BS 2	520	107.00	60
97500101	Special box K 1	520	325.00	50
97500201	Special box K2	520	467.00	30
97510001	Sealing cap K 1	520	78.00	150/25
97510201	Sealing cap K 2	520	120.00	90/15
97600101	IBTronic H120-S1	520	880.00	10
97600201	IBTronic H120-S2	520	880.00	10
97600301	IBTronic H120-O	520	880.00	10
97600401	IBTronic H120-P	520	1560.00	10
97600501	IBTronic H120-68	520	880.00	10
97610101	IBTronic H120-S1-S2	520	920.00	12
97610301	IBTronic H120-S1-O	520	920.00	12
97610401	IBTronic H120-P-O	520	1650.00	12
97610501	IBTronic H120-68-O	520	920.00	12
97620101	IBTronic H120TT-S1	520	1730.00	8
97620201	IBTronic H120TT-S2	520	1730.00	8
97620301	IBTronic H120TT-O	520	1730.00	8
97620401	IBTronic H120TT-P	520	2390.00	8
97620501	IBTronic H120TT-68	520	1730.00	8
97630101	IBTronic H120TT-S1-O	520	1820.00	6
97630201	IBTronic H120TT-S2-O	520	1820.00	6
97630301	IBTronic H120TT-O-O	520	1820.00	6

Order No..	Description	Discount Group	Price EUR/100 VPE*	Pack qty
97630401	IBTronic H120TT-P-O	520	2550.00	6
97630501	IBTronic H120TT-68-O	520	1820.00	6
97700101	Transfer box K 0	520	213.00	50
97700201	special box K 15	520	347.00	30
97710001	Sealing cap K 0	520	89.00	180/30
97710501	Sealing cap K 15	520	132.00	90/15
97810001	Hand hole punch, without punch	520	6.700.00	1
97811801	Hand hole punch, with punch	520	10.800.00	1
97812301	Hand hole Punch, with punch	520	10.800.00	1
97880801	Punch 8 mm	520	1.160.00	1
97881401	Punch 14 mm	520	1.160.00	1
97881801	Punch 18 mm	520	1.160.00	1
97883001	Punch 30 mm	520	7.400.00	1
97883901	Punch 39 mm	520	8.120.00	1
97891001	Punch 10 mm for hand punch	520	4.200.00	1
97891401	Punch 14 mm for hand punch	520	4.200.00	1
97891801	Punch 18 mm for hand punch	520	4.200.00	1
97892301	Punch 23 mm for hand punch	520	4.500.00	1
97910001	Unit cover	520	40.00	200/25
97910201	Damp room cover U 71	520	62.20	100/10
97910301	Damp room cover U 86	520	119.00	100/10
97910401	Universal cover, plug in	520	55.00	100/10
97910501	Installation screw 3.1 x 10	520	4.68	400
97910601	Installation screw 3.1 x 18	520	4.60	250
97910701	Installation screw 3.1 x 25	520	5.82	200
97910901	Conduit stopper U71	520	104.00	1
97911001	Threaded base M 5	520	73.00	120
97911501	Ceiling hook 55 mm	520	62.00	600/100
97911601	Ceiling hook 90 mm	520	68.00	600/100
97911701	Ceiling hook 75 mm	520	65.00	600/100
97911801	Ceiling hook 65 mm	520	62.00	600/100
97911901	Ceiling hook 100 mm	520	78.00	600/100
97912001	Ceiling hook 65 mm	520	65.00	600/100
97912101	Ceiling hook 115 mm	520	89.00	600/100
97912201	Ceiling hook 90 mm	520	73.00	600/100
97912301	Ceiling hook 135 mm	520	106.00	600/100
97913501	Spacer	520	29.00	300
97913601	Clip	520	17.00	2000/100
97915501	Expansion mandrel	520	146.00	90/15
97916001	Hole saw	520	2.250.00	120
97916201	Hole Punch	520	67,800.00	1
97920501	IBT-plug	520	3.33	6000/1000
97921001	Compound nipple	520	9.40	900/150
97921201	Interconnection frame 71 mm	520	11.50	900/150
97921301	Interconnection frame 80/85 mm	520	29.00	450/75
97921401	Interconnection frame 90 mm	520	54.00	600/100
97921501	Interconnection frame 105 mm	520	54.00	600/100
97923001	Conduit support	520	563.00	25/1
97924001	Spreader nail	520	14.00	1800/300

Order No..	Description	Discount Group	Price EUR/100 VPE*	Pack qty
97924201	Alum. nail serrated	520	9.40	4800/800
97924301	Alum. nail smooth	520	9.40	4800/800
97924501	Support clip	520	17.50	600/100
97924801	Adhesive blank	520	50.00	1200/200
97925001	Support flange	520	33.00	300/50
97926001	Connecting screw	520	10.90	50
97926601	Double screw	520	51.00	30
97928001	Magnetic clamp	520	1.220.00	3
97929901	Magnetic clamp	520	2.030.00	3
97953001	Blank base U 71	520	74.00	80
97953002	Blank base U 71	520	74.00	80
97953101	Blank cleat K 1 and K 2	520	43.70	200
97953201	Blank cleat AS	520	44.70	200
97953501	Support buffer	520	6.55	6000/1000
97953601	Cartridge insert	520	4.37	300
97953801	Adhesive blank base U 71 K	520	74.00	80
97953901	Magnet blank base U 71	520	74.00	80
97957001	Support spar 70 mm	520	27.20	1000/50
97959001	Support spar 90 mm	520	28.40	600/50
97961001	Support spar 110 mm	520	30.70	600/50
97963001	Support spar 130 mm	520	31.70	500/50
97964001	support spar 140 mm	520	31.70	500/50
97965001	support spar 150 mm	520	32.80	400/50
97967001	support spar 170 mm	520	33.80	400/50
97969001	support spar 190 mm	520	36.40	400/50
97973001	support spar 230 mm	520	39.50	300/50
97974001	support spar 240 mm	520	39.50	200/50
97979001	support spar 290 mm	520	42.60	200/50
97980001	NS 35 mm	900	230.00	1
97980101	Fermacell Plate	520	720.00	10
98000201	Branch box K 3	520	803.00	15
98000401	Branch box K 4	520	1.980.00	4
98000501	Branch box K 4-H	520	On Enquiry	1
98010001	Sealing cap K 3	520	300.00	50/10
98010401	Sealing cap K 4	520	725.00	10
98010501	Divider K 3	520	49.00	300/30
98010801	Sealing cap K 8	520	2380.00	1
98011201	Sealing cap K 12	520	2720.00	1
98600001	Distribution set UP 015	300	2.730.00	6/1
98800201	Installation box K8	520	3.210.00	1
98800301	Installation box K12	520	5.230.00	1

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 - the following terms shall be applied:
- 1.1 „Manufacturers Warranty Terms for Installation Equipment and Systems“
- 1.2. „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry for Commercial Transactions between Businesses“ in the latest version from the Zentralverband der Elektrotechnik und Elektronikindustrie (ZVEI) e.V.“, the German Electrical and Electronic Manufacturers' Association
- 1.3. The „Supplementary Clause of Extended Reservation of Ownership“ in the latest version from the Zentralverband der Elektrotechnik und Elektronikindustrie (ZVEI) e.V.“, the German Electrical and Electronic Manufacturers' Association
- 1.4 In addition, the following paragraphs 2 to 12. We will happily send you the above mentioned rules, delivery terms and clauses, if required. The documents can also be downloaded from our web site (www.spelsberg.de). We herewith reject the conditions of purchase of our customer unless they are explicitly acknowledged by us. Our terms will be acknowledged as the sole binding legal foundation when delivery is taken. Order confirmations will only be sent if requested expressly.
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3. Normal packaging
is the smallest packing unit indicated in our catalogue. Should the ordered quantity not correspond with the quantities in our packing units, we will delivery the nearest packing unit.
4. Sea- proof packaging
will be invoiced at a small surcharge only in case of packing in containers.
5. Delivery freight prepaid
(freight paid, packaging included) will be carried out within Germany for a net order value of more

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6. Dispatch will always be carried out at receiver's risk, even in case of agreed delivery freight prepaid.

7. Suitability and nature
Any details and information given concerning the suitability, nature and application of our goods shall not absolve our customer from conducting their own controls and tests. The customer processing our goods shall assume liability for regulations prescribed by law, public agencies and electricity supply companies.
8. Complaints
can only be acknowledged within 8 days of the receipt of the consignment.
On receipt of the goods, the person delivering the goods must confirm any visible transport damage with a signature on the relevant delivery notes.
9. Return of goods
shall be rejected in principle unless we have given our prior consent. In case of non-compliance, the company/person returning the goods shall assume liability for any costs and disadvantages incurred.
10. Our payment terms are
less 3 % cash discount within 10 days or net within 30 days. If the customer is in arrears with payment, we are entitled to claim interest at the usual bank rate. Should the customer's solvency be in doubt, particularly in the case of payment arrears, we are entitled, notwithstanding any other claims, to demand payment in advance or securities or revoke already granted credit terms.
11. Place of fulfilment
for delivery, payment and other contractual activities by both parties is Schalksmühle. The court of jurisdiction is Lüdenscheid. German law applies exclusively.
12. Data protection
We are entitled to use data obtained from the business relationship with our customers, regardless of origin, within the meaning of the BDSG (the German Federal Data Protection Act).



Günther Spelsberg GmbH + Co. KG

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