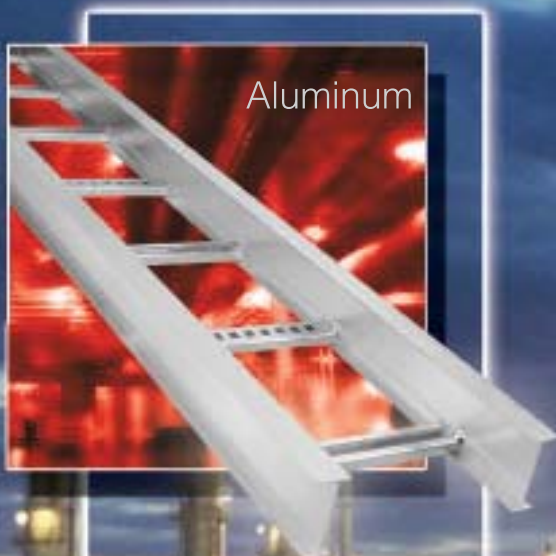




Aluminum



Steel



One-Piece

THOMAS & BETTS CABLE TRAY SYSTEMS



T&B Fittings

Electrical Conduit Fittings.



Color-Keyed

Compression Connectors and Tools.



Blackburn

Compression, Mechanical and Grounding Connectors.



Ty-Rap

High Performance Cable Ties and Accessories.



Ty-Duct

Wiring Duct and Accessories.



Sta-Kon

High Performance Terminals and Tools.



Shield-Kon

Grounding Connectors.



E-Z-Code

Identification Products and Accessories.



EZ GROUND

Compression Connectors.



STAR TECK

Fittings for Teck Cable.



Catamount

Cable Fastening Systems.



Ocal

Complete Corrosion Protection for Electrical Conduit and Fittings.



Russellstoll

Electrical Interconnection Systems for Heavy-duty Applications.



Hazlux

Outdoor Hazardous Location Lighting Systems.



Steel City

Floor Boxes, Die Cast Fittings.



Shrink-Kon

Heavy Wall and Thin Wall Tubing, Wire and Connector Insulation.



Red•Dot

Outdoor Boxes and Covers, Hubs, Connectors and Accessories.



Kindorf

Modular Metal Framing and Support Systems.



Superstrut

Metal Framing, Channel, Fittings, Pipe Straps and Beam Clamps.



Shamrock

Tubular Products.

SECTION 1 - Technical Information

Benefits of Cable Tray	4 - 5
Features & Benefits	6 - 7
System Design.....	8
Glossary of Terms	9
Cable Tray Selection Process	10 - 17
Materials and Finishes	18 - 19
Corrosion	20 - 21
Types of Corrosion.....	22
Corrosion Resistance Guide	23 - 29
Electrical Grounding Capacity	30
Thermal Expansion and Contraction	31
Structural Design.....	32 - 34
Loading	36 - 37
Loading for Grades B, C and D	38
Engineering Cable Tray Specification	40

SECTION 2 - Aluminum Cable Tray

Features.....	45
Straight sections	46 - 59
Fittings	60 - 99
Accessories and Covers.....	100 - 112

SECTION 3 - Steel Cable Tray

Straight sections	116 - 127
Fittings	128 - 142
Accessories and Covers.....	144 - 155

SECTION 4 - One Piece Cable Tray

Straight sections	158 - 165
Fittings	166 - 181
Accessories and Covers.....	182 - 189

SECTION 5

Common Accessories	192 - 195
--------------------------	-----------

SECTION 6

Grounding	198 - 200
-----------------	-----------

SECTION 7

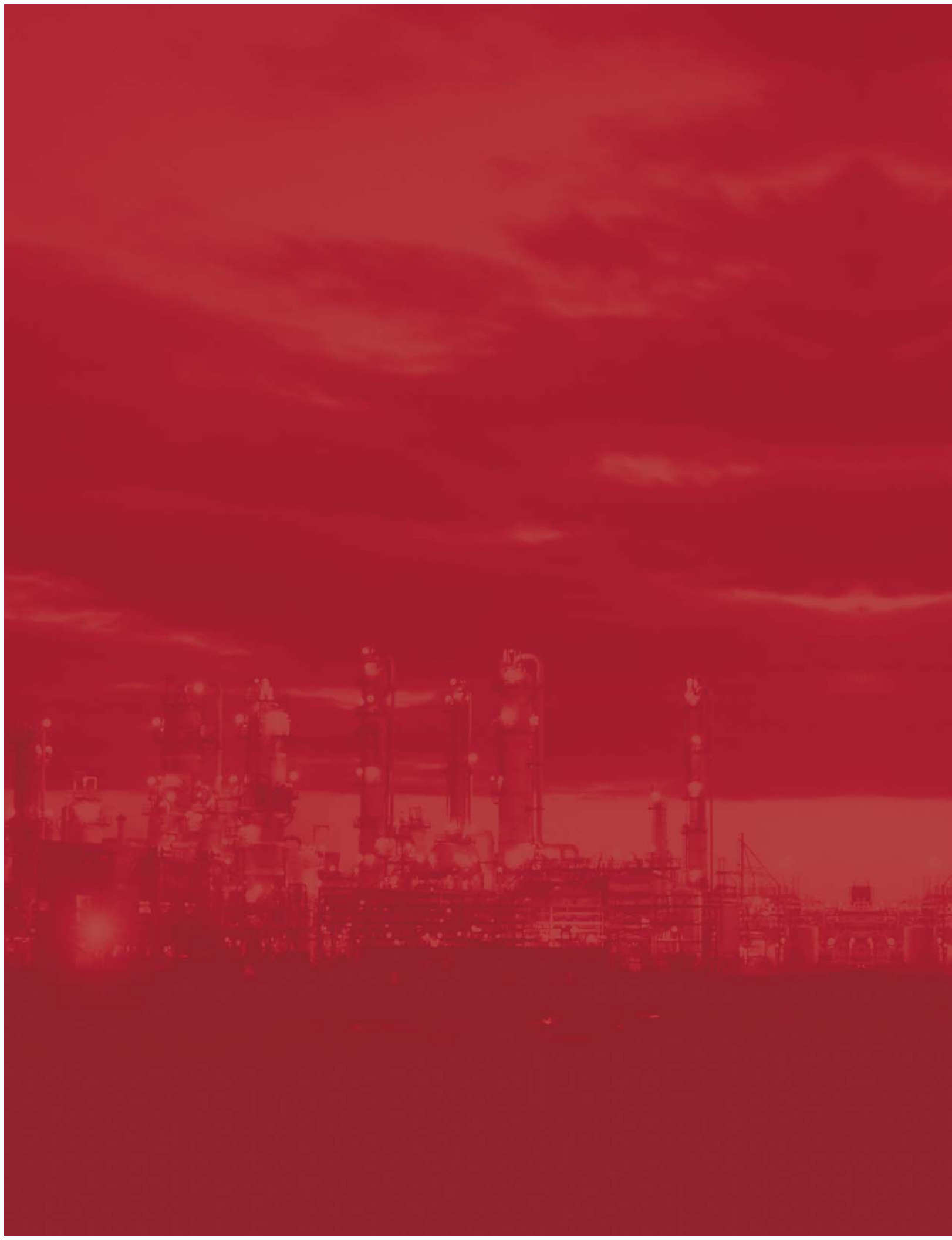
Superstrut®.....	204- 211
------------------	----------

SECTION 8

Channel Tray	214 - 239
--------------------	-----------

SECTION 9

Appendix.....	242 - 250
Annex A.....	251
Annex B.....	252
Other Offering.....	253 - 254



Section 1

The Benefits of Cable Tray

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is less expensive, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

An evaluation of the costs and benefits of various wiring systems should be done in the design phase. Unfortunately, many engineers who are unfamiliar with wiring systems avoid the system selection process or defer it until construction—often resulting in higher costs, scheduling delays and a system that will not meet future needs.

Selection of a wiring system that is not the most suitable for a particular application in terms of cost, potential corrosion and electrical considerations can lead to numerous problems, including excessive initial cost, poor design, faulty installation, extra maintenance, future power outages and unnecessary safety concerns.



Cost

Extensive experience has shown that the initial cost of a cable tray installation (including conductor, material and installation labor costs) may be as much as 60% less than a comparable conduit wiring system. Cable tray systems, including trays, supports, fittings and other materials, are generally much less expensive than conduit wiring systems. In addition, major cost savings are generated by the relative ease of installation. Labor costs of installing a cable tray system can run up to 50 percent less. Total cost savings will vary with the complexity and size of the installation.

Direct cost savings are easy to calculate during the design phase of an installation, but the enormous advantages of cable tray may accrue only over time. The system's reliability, adaptability, ease of maintenance and inherent safety features result in many other types of cost savings, including:

- lower engineering and maintenance costs
- less need to reconfigure system as needs change
- less down time for electrical and data handling systems
- fewer environmental problems resulting from loss of power to essential equipment.

Reliability

Cable tray systems offer unsurpassed reliability, resulting in less need for maintenance and less down time—important considerations for all installations but especially for such industries as data communications and financial services.

In addition, since cable tray is not a closed system, moisture build up problems are eliminated and damage to cable insulation during installation is also greatly reduced.

Adaptability

A major advantage of cable tray systems derives from their adaptability to new needs and technology. The pace of change in the economy, constantly shifting competitive pressures and rapid introduction of innovative technologies are all accelerating. More than ever before, businesses must be prepared to quickly expand facilities, change products or introduce new processes. The flexibility of the wiring system is a key consideration.

Modifying a cable tray system or adding cables to meet new needs is relatively easy because cables can enter or exit a tray at any point. And initial design considerations can build-in extra capacity as part of the planning process. Cable tray's inherent adaptability allows rewiring for future expansion, building redesign or new technologies without disruption or need to replace the entire wiring system.

Maintenance

Cable tray wiring systems require less maintenance than conduit systems. When maintenance is necessary, it is easier, less time-consuming and less labor intensive.

The physical condition and status of both the cable tray and the tray cables can be inspected visually, something that is not possible with conduit systems. In addition, it is also easy to see if there is sufficient capacity in the trays for additional cables. As was noted above, changing or adding cables can also be accomplished without difficulty.

Another comparative benefit of cable tray systems is that they do not act as channels of moisture paths, as conduit wiring systems do. Conduit systems tend to collect condensation resulting from changes in temperature and then channel the moisture to electrical equipment, where it can lead to corrosion and failure.

Cable tray and tray cable are also less susceptible to fire loss than conduit. An external fire usually results in damage to only a few feet of a cable tray system, while wire insulation inside a conduit suffers significant damage and thermoplastic insulation may actually fuse to the conduit.

Safety

Cable tray wiring systems lack the inherent safety concerns of conduit systems.

By its nature, a conduit wiring system can serve as a flow-through for corrosive, explosive and toxic gases in the same way that it channels moisture.

The conduit installation process can also present a safety issue for electricians. The process requires that a conduit system be installed from one enclosure to another before pulling in the conductors, leaving the electricians exposed to any live, energized equipment that may be in the enclosures. In contrast, installers can pull tray cables from near one termination enclosure to the next before they are inserted into the enclosures and then terminated.

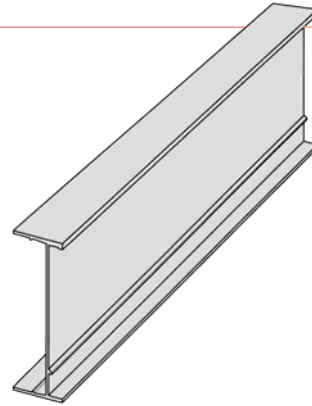
Finally, in installations where cable tray can be used as the equipment grounding conductor (per NEC standards), it is easy to visually check the system components as well as conduct checks for electrical continuity.

The Thomas & Betts Unique Design Points

I-Beam Siderail

- Maximum structural strength.

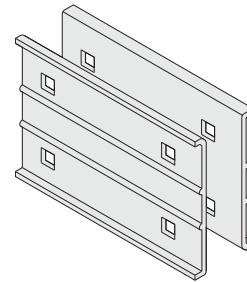
Aluminum



Snap-in Splice Plates

- Snap-in aluminum splice plates for easy installation.

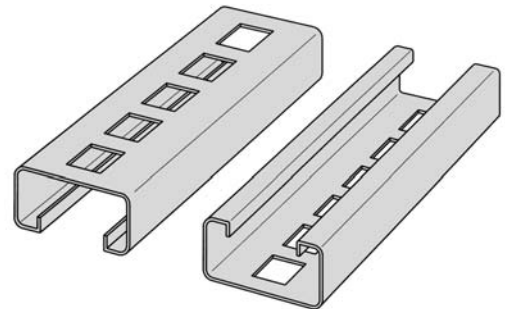
Aluminum



Alternating Rungs

- Alternating rungs for top and bottom accessory installation and cable lashing.

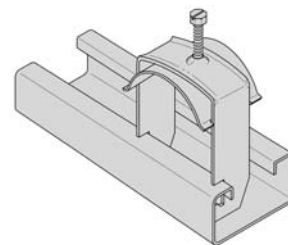
Aluminum &
Steel



Continuous Open Slot

- Rungs have continuous open slot to accept standard strut pipe clamps and gives complete barrier strip adjustability.

Aluminum &
Steel



The Thomas & Betts Unique Design Points

Ty-Rap® Cable Tie Slots

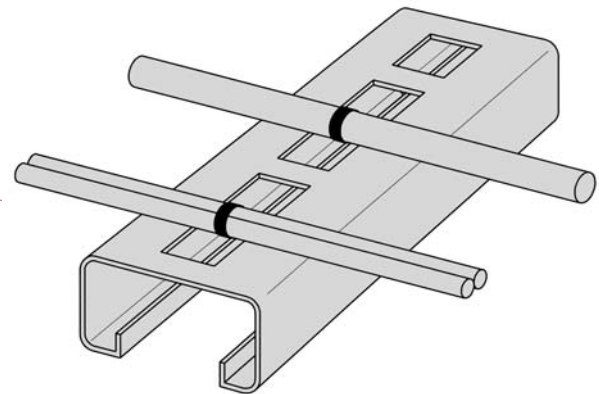
- Exclusive Ty-Rap® cable tie slots on 1" centers on all ladder and ventilated bottoms.

Secures cables without kinks and keeps cables uniform.

Aluminum &
Steel

Added Support

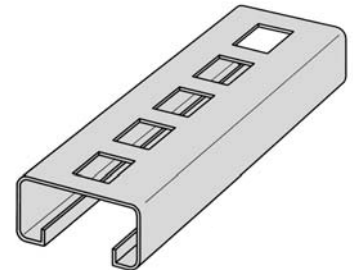
- Aluminum and Steel Solid bottoms are constructed with a flat sheet for added cable protection.



Aluminum &
Steel

Extra Wide Rung Design

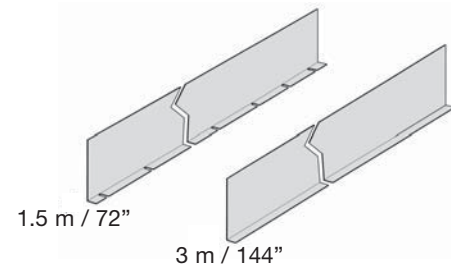
- Extra wide rung design for maximum cable bearing surface.



Aluminum &
Steel

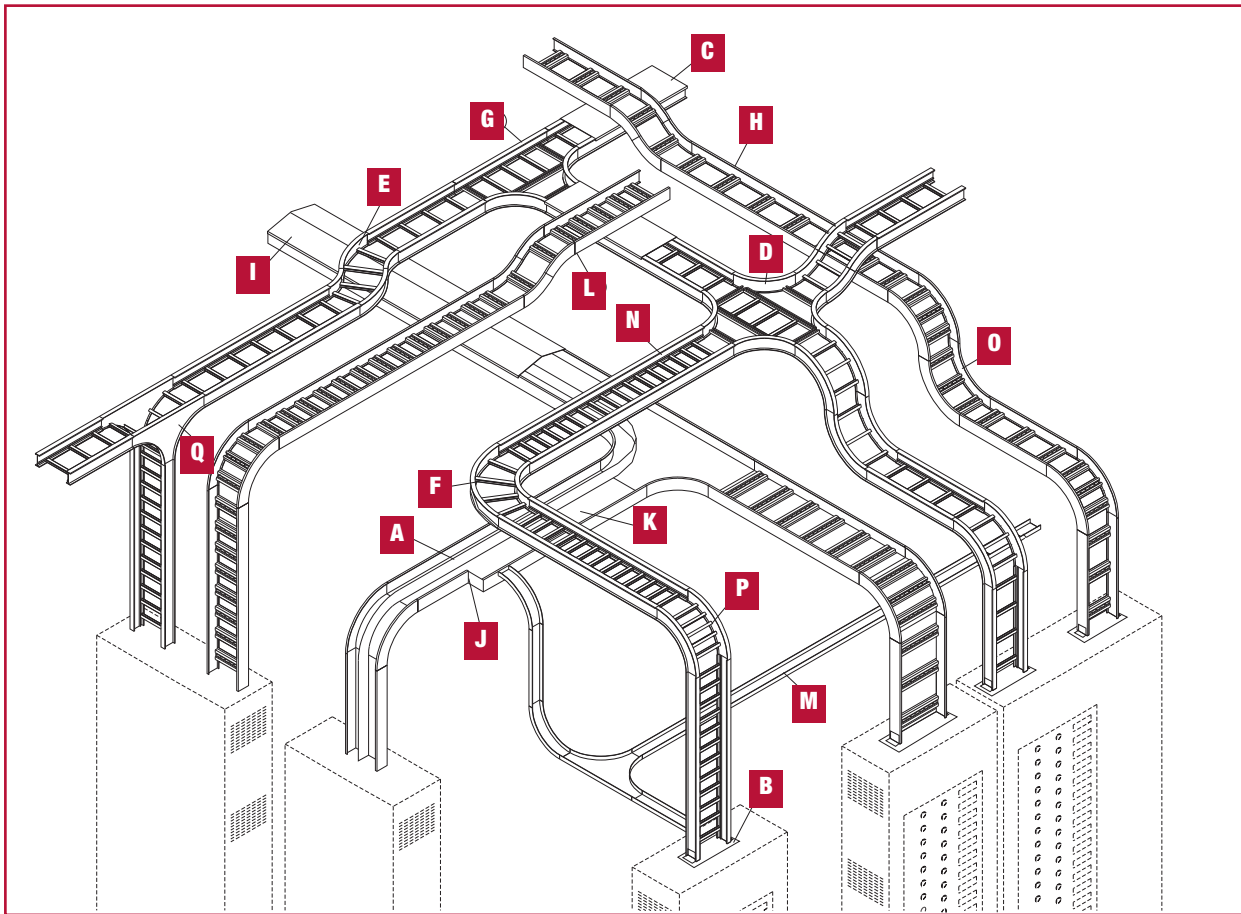
Adjustable Barrier Strips

- Barrier strips are fully adjustable (side to side) for use in straight sections and fittings.



Aluminum &
Steel

Sample Plant Layout



Application

COMMERCIAL

Schools
Hospitals
Office Buildings
Airports
Casinos
Stadiums

INDUSTRIAL

Petro-Chemical Plants
Automotive Plants
Paper Plants
Food Processing
Power Plants
Refineries
Manufacturing
Mining

A	Barrier Strip
B	Box Connector
C	Flat Cover
D	Horizontal Cross
E	Horizontal 45°
F	Horizontal 90°
G	Horizontal Tee
H	Ladder Tray
I	Peaked Cover

J	Right Reducer
K	Solid Tray
L	Splice Connector
M	Solid Channel Tray
N	Ventilated Tray
O	Vertical 90° Inside
P	Vertical 90° Outside
Q	Vertical Tee

- Accessories.** Devices which are used to supplement the function of straight sections and fittings, and include such items as dropouts, covers, conduit adapters, hold-down devices and dividers.
- Cable Tray Connector.** A device which joins cable tray straight sections or fittings, or both. The basic types of connectors are: **1.** Rigid, **2.** Expansion, **3.** Adjustable, **4.** Reducer
- Cable Tray Fitting** A device which is used to change the direction, elevation or size of a cable tray system.
- Cable Support.** A device which provides adequate means for supporting cable tray sections or fittings, or both. The basic types of cable tray supports are: **1.** Cantilever bracket, **2.** Trapeze, **3.** Individual and suspension
- Channel Cable Tray.** A prefabricated metal structure consisting of a one-piece ventilated bottom or solid bottom channel section, or both, not exceeding 6 inches in width.
- Ladder Cable Tray.** A prefabricated metal structure consisting of two longitudinal side rails connected by individual transverse members.
- Solid Bottom Cable Tray.** A prefabricated metal structure consisting of a bottom with no openings within integral or separate longitudinal side rails.
- One Piece / Unit Cable Tray** . . A prefabricated metal structure consisting of a one-piece solid or ventilated bottom.
- Horizontal Cross** A cable tray fitting which is suitable for joining cable trays in four directions at 90-degree intervals in the same plane.
- Horizontal Bend** A cable tray fitting which changes the direction in the same plane.
- Horizontal Tee.** A cable tray fitting which is suitable for joining cable trays in three directions at 90 degree intervals in the same plane.
- Metallic Cable Tray System.** . . An assembly of cable tray straight section, fitting, and accessories that forms a rigid structural system to support cables.
- Reducer** A cable tray fitting which is suitable for joining cable trays of different widths in the same plane. A straight reducer has two symmetrical offset sides. A right-hand reducer, when viewed from the large end, has a straight side on the right. A left-hand reducer, when viewed from the large end, has a straight side on the left.
- Straight Section.** A length of cable tray which has no change in direction or size.
- Ventilated Bottom** A cable tray bottom having openings sufficient for the passage of air and utilizing 75 percent or less of the plan area of the surface to support cables.
- Vertical Bend.** A cable tray fitting which changes direction to a different plane. An inside vertical elbow changes direction upward from the horizontal plane. An outside vertical elbow changes direction downward from the horizontal plane.

Selection Process

A number of basic decisions must be made before a cable tray system can be specified. T&B has developed a simple seven-step process to guide you in the process:

1. Select Material and Finish
2. Select the Tray Load Class
3. Select the Tray Type
4. Select the Tray Size
5. Select the Fittings
6. Consider Deflection
7. Electrical Grounding Capacity

Each step is described in detail below. For many applications, however, you may also have to take the following into account:

- Weight of the installation, which affects the cost of the support structure and the ease of installation.
- Corrosion resistance of the material is one of the most important selection criteria. Cable tray materials may not respond the same way in different environments. Chemicals or combinations of chemicals have corrosion effects on some materials that can be compounded by temperature or even the speed at which the corrosive elements contact the cable tray. For example, some grades of stainless steel may be resistant to salt water at high flow rates (perfect for heat exchangers), while exhibiting some corrosion pitting in standing salt water. Only the designer can quantify the various elements that affect the corrosion resistance of the cable tray system in a specific application. While T&B can provide guidance, the designer is responsible for the final selection. For more information, see “Corrosion” section.
- Galvanic effect can cause corrosion even if the cable tray material is resistant to its chemical environment. Dissimilar metals in contact (e.g., aluminum tray on steel supports or bare copper bonding conductor in aluminum tray) in the presence of an electrolyte are susceptible to galvanic effect. If there is a hazard of galvanic corrosion, it may be possible to isolate the tray system from other metals instead of using a more expensive type of tray that would resist corrosion in a given application.
- Melting point and flammability rating are primarily concerns for non-metallic tray. Local building codes may restrict the use of a given product if certain performance levels are not met. Check with the appropriate inspection authorities before specifying the product.
- Relative cost varies dramatically, including material costs that float with the commodity index. For example, stainless steel prices may vary significantly according to daily changes in the market.
- Thermal expansion must also be taken into account on a long cable run, especially in areas where temperature variation is extreme. Expansion connectors may be required if the temperature differential is 25°F or greater. Refer to **Tables 1** and **2** on page 31 for expansion plate spacing and gap settings. Two bonding jumpers are required for every pair of splice plates for grounding continuity.

Selection Steps

1 Select Material and Finish

The most suitable material and finish for your application will depend on cost, the potential for corrosion, and electrical considerations. T&B offers cable tray systems fabricated from corrosion-resistant steel, stainless steel and aluminum alloys along with corrosion-resistant finishes, including zinc, PVC and epoxy. Special paint is also available. For more information on material and finish, see the “Material Descriptions” section, page 18 and 19. T&B also offers a complete non-metallic Cable Tray and strut system. Please refer to the catalog NMCT for further information.

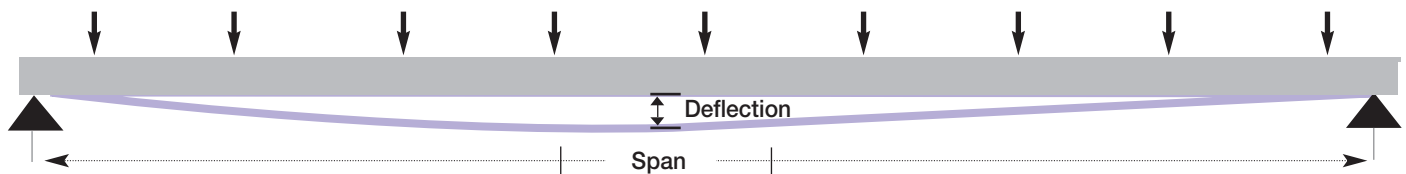
2 Select the Tray Class / Load Capacity (loading)

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1. Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable.
(according to NEMA VE-1 / CSA C22.2 N° 126.1-02)

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are more cost-effective on a load length basis. The designer should therefore specify the lightest class of tray compatible with the weight requirements of the cable tray.

TABLE 1 Load / Span Class Designation

LOAD kg/m (lb/ft)	SPAN, m (ft)				
	2.4 (8)	3.0 (10)	3.7 (12)	4.9 (16)	6.0 (20)
37 (25)	–	A	–	–	–
67 (45)	–	–	–	–	D
74 (50)	8A	–	12A	16A	20A
97 (65)	–	C	–	–	–
112 (75)	8B	–	12B	16B	E or 20B
149 (100)	8C	–	12C	16C	20C
179 (120)	–	D	–	–	–
299 (200)	–	E	–	–	–



Note: 8A/B/C, 12A/B/C, 16A/B/C, and 20A/B/C are the traditional NEMA designations.
A, C, D, and E are the conventional CSA designations.

2 Select the Tray Class / Load Capacity (cont'd)

Cable Loads: The cable load is the total weight, expressed in (kg/m), of all the cables that will be placed in the cable tray.

Snow Loads: The additional design load from snowfall should be determined using the building codes which apply for each installation.

Ice Loads: The additional load design due to the ice is determined by the following formula:

$$W_i = W \times T_i \times D_i / 144$$

Where:

W_i = ice load (lb/linear foot)

W = width of the tray (inches)

T_i = maximum ice thickness (inches).

D_i = 57 lb/ft³ - ice density

Ice thickness will vary depending on installation location. A value of 1/2 inch can be used as a conservative standard for Canada.

Wind Loads: The additional loading to be considered is the effect of the impact pressure normal to the side rail.

This loading is determined by the following formula:

$$W_p = 0.00256 \times V^2 \times H / 12$$

Where:

W_p = loading due to the wind (lbs/linear foot)

V = wind velocity (mph)

H = Height of the side rail (inches)

It is important to note that cable tray is not designed to support personnel.

The user should display appropriate warnings to prevent the use of cable tray as walkways.

Concentrated Loads

A concentrated static load is not included in the **Table 1**. Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (W_e) in kilograms/metre (pounds/linear foot), using the following formula, and added to the static weight of cable in the tray:

$$W_e = \frac{2 \times (\text{concentrated static load, kg (lb)})}{\text{Span length, m (ft)}}$$

3 Select the Tray Type

Cable tray is available with three styles of bottom:

Ladder Cable Tray is a prefabricated structure consisting of two longitudinal siderails connected by individual transverse members.

Ventilated Cable Tray is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal siderails, with no openings exceeding 4 in. in a longitudinal direction.

Solid Bottom Cable Tray is a prefabricated structure without openings in the bottom.

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12, and 18 inches. The greatest rung spacing compatible with an adequate cable bearing surface area should be selected. Heavy power cables often require greater cable bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer. This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables.

Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

4 Select the Tray Size

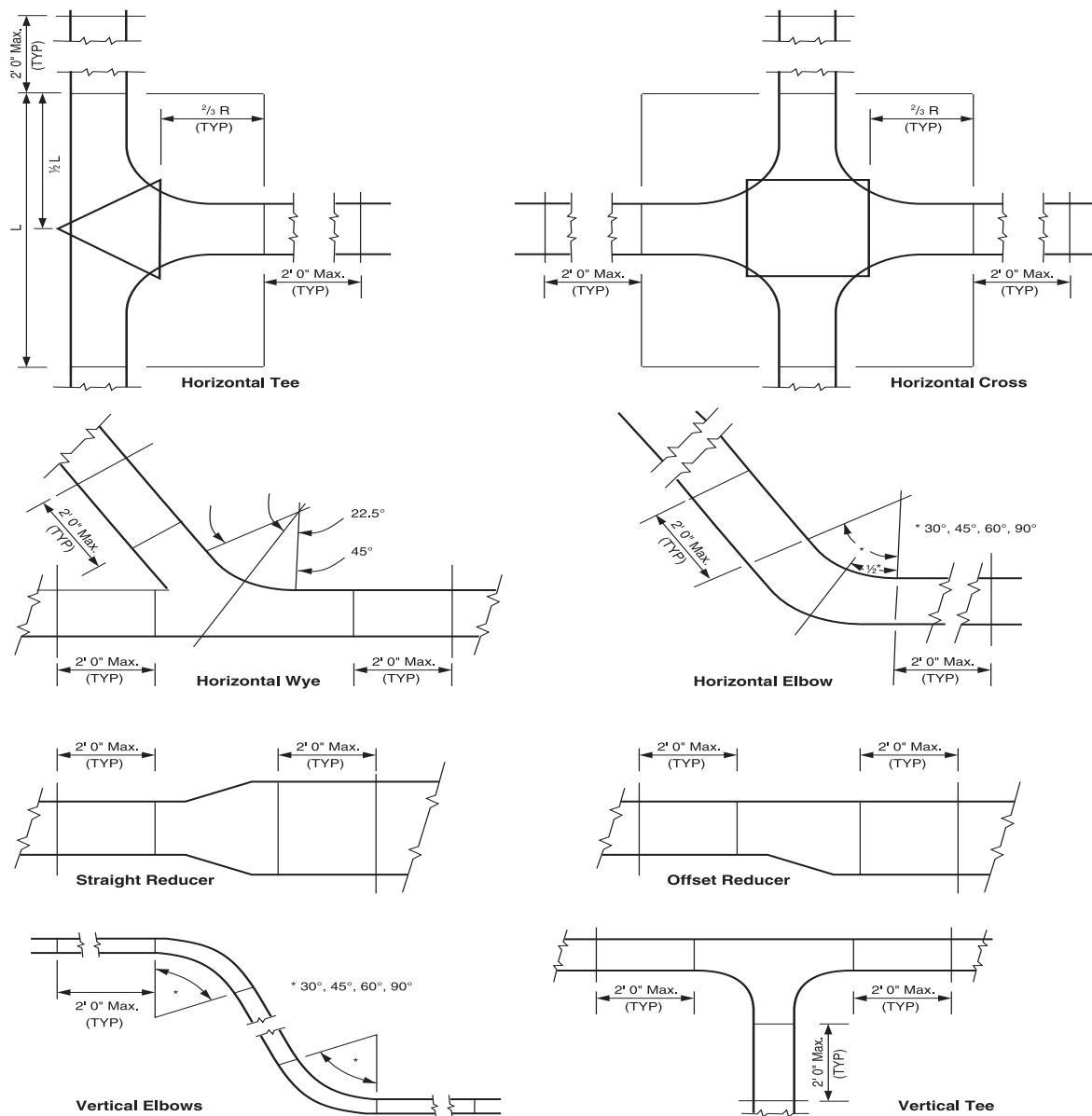
The width or height of a cable tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30, 36 and 42 inches.

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36 in. wide tray cannot hold any more weight than a 6 in. wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 3-1/2, 4, 5, 6 and 7 inches (8 inch height also available as a special - see appendix). Cable ties or other spacing devices may be used to maintain the required air space between cables.

5. Select the Fittings

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48 in., or even greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 in. Fittings are also available for 30°, 45°, 60°, and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 Installation Guidelines for suggested support locations. Note that fittings are not subject to NEMA/CSA load ratings.

Support Locations for Fittings



6. Consider Deflection

Deflection of the cable tray affects the appearance of an installation, but it is not a structural issue. In the case of non-metallic cable tray, deflection may be affected by elevated temperatures.

The NEMA/CSA load test is a simple beam, uniformly distributed load test. (see **Figure 1.2**) This type of test was initially selected because:

- It was easiest to test.
- It represents the worst case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalog for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

NEMA/CSA has one criterion for acceptance under their load test: the ability to support 150% of the rated load.

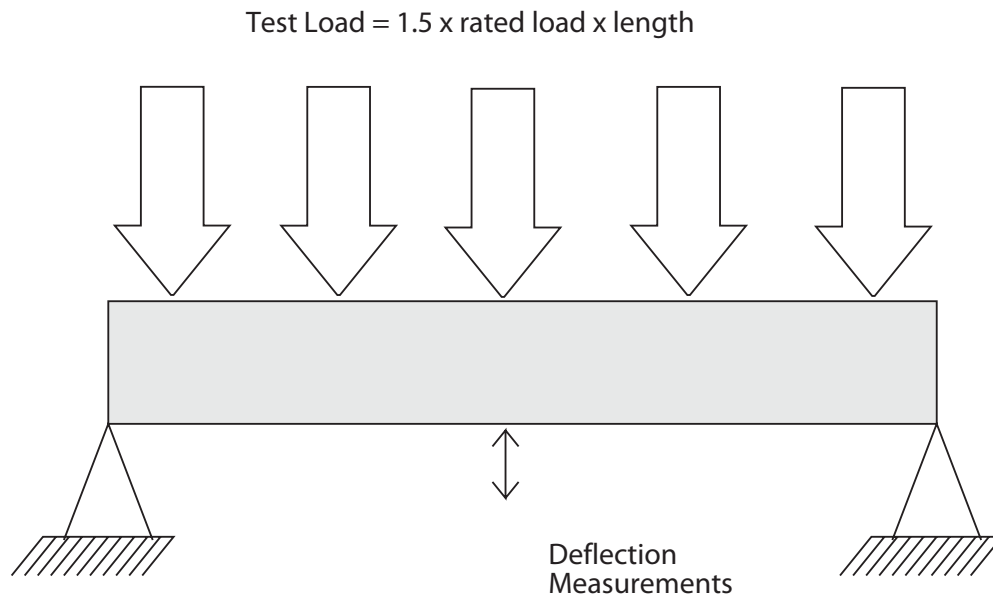


Figure 1.2

Simple Versus Continuous Beam Deflection

Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as:

$$.0130 \frac{w L^4}{E I}$$

Where: w = Load in lb/ft
L = Length in inches
E = Modulus of Elasticity
I = Moment of Inertia

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is:

$$.00541 \frac{w L^4}{E I}$$

A continuous beam of two spans therefore has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple vs. Continuous Beam Deflection

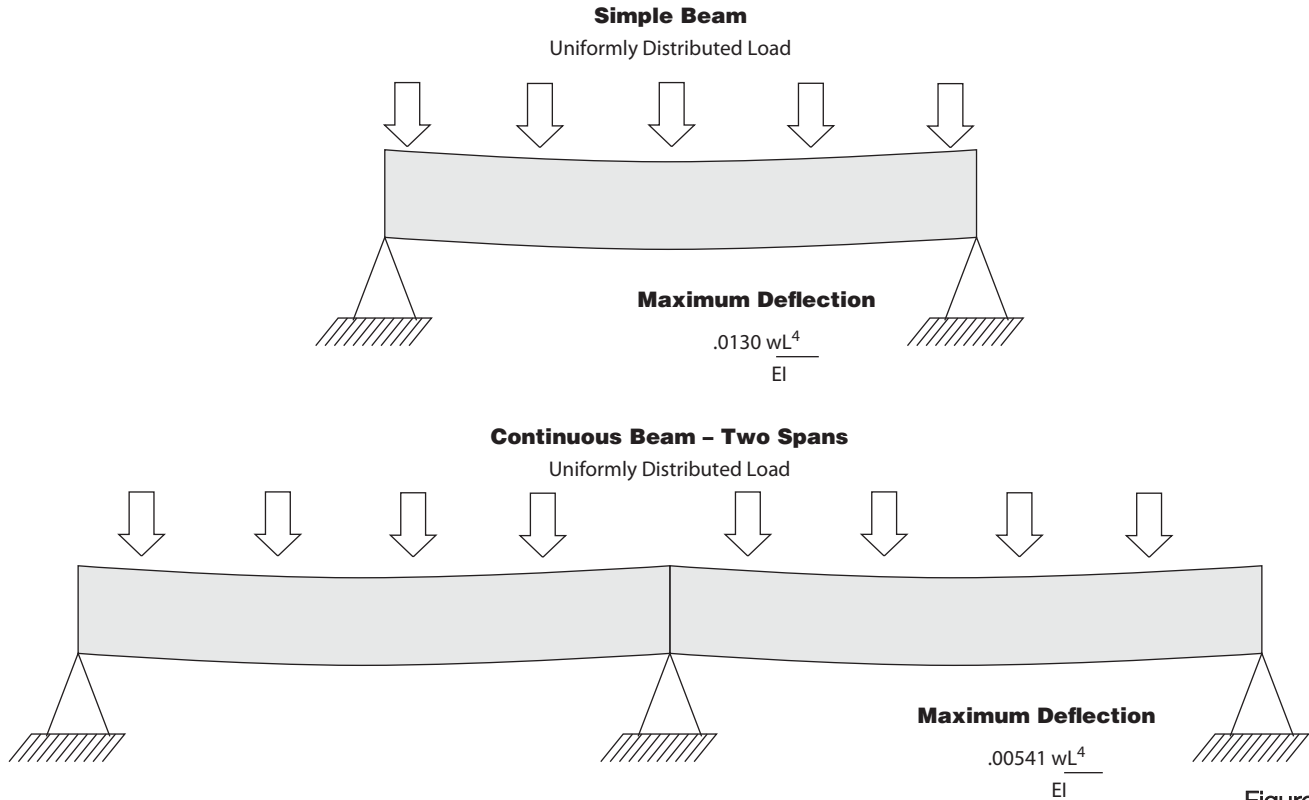
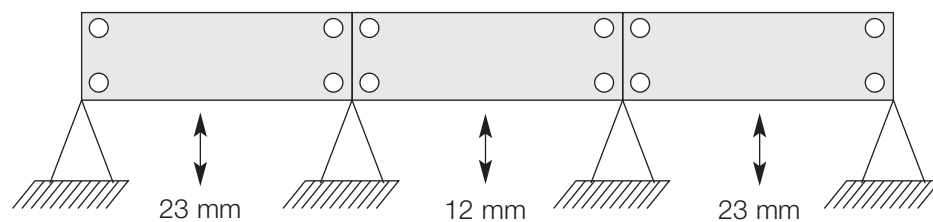


Figure 1.3

Location of Couplings

Since different bending moments are created in each span, there is no simple factor to approximate deflection as the number of spans increases. It is possible to calculate these deflections at any given point by using second integration of the basic differential equation for beams. Testing shows that the center span of a three-tray continuous beam can deflect less than 10 % of its simple beam deflection.

Couplers at Supports - Not Recommended



Couplers at 1/4 Span From Supports - Ideal Layout

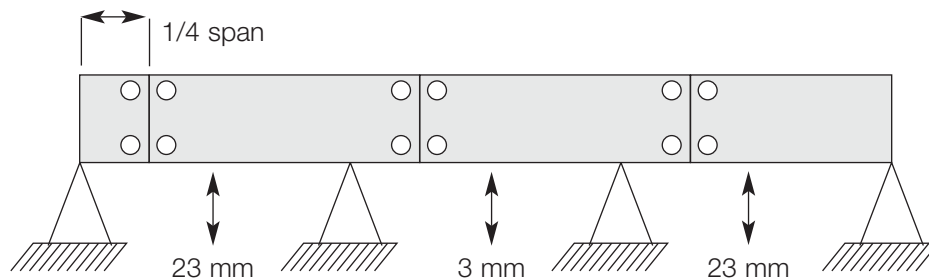


Figure 1.4

The support span should not be greater than the straight section length, to ensure no more than one splice is located between supports.

Location of Couplers. (see **Figure 1.4**) The location of the coupler dramatically affects the deflection of a cable tray system under equal loading conditions. Testing indicates that the maximum deflection of the center span of a three-span tray run can decrease four times if the couplers are moved from one-quarter span to above the supports. This can be a major concern for designers considering modular systems for tray and pipe racks.

Materials

Materials

Most cable tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost.

Aluminum

Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to certain corrosive environments, and ease of installation. They also offer the advantages of being light weight (approximately 50% that of a steel tray) and maintenance free, and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

T&B cable tray products are formed from the 6063 series alloys which by design are copper free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

Steel

T&B steel cable trays are fabricated from structural quality steels using a continuous roll-formed process. Forming and extrusions increase the mechanical strength.

The main benefits of steel cable tray are its high strength and low cost. Disadvantages include high weight, low electrical conductivity and relatively poor corrosion resistance.

The rate of corrosion will vary depending on many factors such as the environment, coating or protection applied and the composition of the steel. T&B offers finishes and coatings to improve the corrosion resistance of steel. These include pre-galvanized, hot dip galvanized (after fabrication), epoxy and special paints.

Stainless Steel

Stainless steel offers high yield strength and high creep strength, at high ambient temperatures.

T&B stainless steel cable tray is roll-formed from AISI Type 316 stainless steel.

Stainless Steel is resistant to dyestuffs, organic chemicals, and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid. Carbon content is reduced to facilitate welding.

Finishes

Galvanized Coatings

The most widely used coating for cable tray is galvanizing. It is cost-effective, protects against a wide variety of environmental chemicals, and is self-healing if an area becomes unprotected through cuts or scratches.

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself. Resistance to corrosion is directly related to the thickness of the coating and the harshness of the environment.

Pre-Galvanized

Pre-galvanized, also known as mill-galvanized or hot dip mill-galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated.

Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs.

G90 requires a coating of .90 ounces of zinc per square foot of steel, or .32 ounces per square foot on each side of the metal sheet. In accordance with A653/A653M-06a, pre-galvanized steel is not generally recommended for outdoor use or in industrial environments.

Hot-Dip Galvanized

After the steel cable tray has been manufactured and assembled, the entire tray is immersed in a bath of molten zinc, resulting in a coating of all surfaces, as well as all edges, holes and welds.

Coating thickness is determined by the length of time each part is immersed in the bath and the speed of removal. Hot dip galvanizing after fabrication creates a much thicker coating than the pre-galvanized process, a minimum of 3.0 ounces per square foot of steel or 1.50 ounces per square foot on each side of the sheet (according to ASTM A123, grade 65).

The process is recommended for cable tray used in most outdoor environments and many harsh industrial environment applications.

Other Coatings

Epoxy and special paint coatings are available on request.

Corrosion

Corrosion

Corrosion of metal occurs naturally when the metal is exposed to chemical or electrochemical attack. The atoms on the exposed surface of the metal come into contact with a substance, leading to deterioration of the metal through a chemical or electrochemical reaction. The corroding medium can be a liquid, gas or solid.

Although all metals are susceptible to corrosion, they corrode in different ways and at various speeds. Pure aluminum, bronze, brass, most stainless steels and zinc corrode relatively slowly, but some aluminum alloys, structural grades of iron and steel and the 400 series of stainless steels corrode quickly unless protected.

Various types of metal corrosion are categorized by its appearance or the method of acceleration:

- **Chemical corrosion** occurs through dissolution of the metal by reaction with a corrosive medium.
- **Electrochemical corrosion** involves chemical dissolution.
- **Galvanic corrosion** is accelerated by a difference in potential between metals that are in contact.
- **Pitting corrosion** is accelerated by a difference in the concentration of an ion or another dissolved substance.
- **Crevice corrosion** is accelerated by oxygen concentration or ion cell formation.
- **Erosion corrosion** is accelerated by a flow of liquid or gas.
- **Intergranular corrosion** occurs at grain (or crystal) boundaries.

Electrochemical Corrosion

Electrochemical corrosion is caused by an electrical current flow between two dissimilar metals, or if a difference of potential exists, between two areas of the same metal surface.

The energy flow occurs only in the presence of an electrolyte, a moist conductor that contains ions, which carry an electric charge. Solutions of acids, alkalies, and salts contain ions, making water—especially salt water—an excellent electrolyte.

Common Types of Corrosion

Galvanic Corrosion

Galvanic corrosion results from the electrochemical reaction that occurs in the presence of an electrolyte when two dissimilar metals are in contact. The strength of the reaction—and the extent of the corrosion—depend on a number of factors, including the conductivity of the electrolyte and potential difference of the metals.

The metal with less resistance becomes anodic and more subject to corrosion, while the more resistant becomes cathodic.

The Galvanic Series Table, developed through laboratory tests on industrial metal alloys in sea water (a powerful electrolyte), list metals according to their relative resistance to galvanic corrosion. Those less resistant to galvanic corrosion (anodic) are at the top, and those more resistant (cathodic) are at the bottom.

The metals grouped together are subject to only slight galvanic effect when in contact, and metals at the top will suffer galvanic corrosion when in contact with metals at the bottom (in the presence of an electrolyte). The farther apart two metals are on the table, the greater the potential corrosion.

Galvanic Series Table	
Anodic End	
Magnesium	Type 304 stainless steel (active)
Magnesium alloys	Type 316 stainless steel (active)
Zinc	Lead
Galvanized steel	Tin
Naval brass (C46400)	
Aluminum 5052H	Muntz metal (C28000)
Aluminum 3004	Manganese bronze (C67500)
Aluminum 3003	
Aluminum 1100	Nickel (active)
Aluminum 6053	Inconel (active)
Alclad aluminum alloys	
Aluminum bronze (C61400)	Cartridge brass (C26000)
Cadmium	Admiralty metal (C44300)
Copper (C11000)	
Aluminum 2017	Red brass (C23000)
Aluminum 2024	
	Silicon bronze (C 65100)
Low-carbon steel	Copper nickel, 30% (C71500)
Wrought iron	
Cast iron	Nickel (passive)
Monel	Inconel (passive)
Ni-resist	
Type 304 stainless steel (passive)	Gold
Type 410 stainless steel (passive)	
Type 316 stainless steel (active)	Platinum
50Pb-50Sn solder	
Silver	Cathodic End

Common Types of Corrosion (cont'd)

Pitting

Pitting corrosion is localized and is identified by a cavity with a depth equal to or greater than the cavity's surface diameter. Pits may have different sizes and depths and most often appear randomly distributed. Aluminum and stainless steels in chloride environments are especially susceptible to pitting.

Pitting begins when surface defects, foreign particles or other variations in the metal lead to fixation of anodic (corroded) and cathodic (protected) sites on the metal surface. Acidic metal chlorides, which form and accumulate in the pit as a result of anodes attracting chloride ions, accelerate the pitting process over time. The nature of pitting often makes it difficult to estimate the amount of damage.

Crevice Corrosion

Crevice corrosion is a specialized form of pitting that particularly attacks metals or alloys protected by oxide films or passive layers. It results from a relative lack of oxygen in a crevice, with the metal in the crevice becoming anodic to the metal outside. For the crevice to corrode, it must be large enough to admit the electrolyte, but small enough to suffer oxygen depletion.

Erosion Corrosion

While erosion is a purely mechanical process, erosion corrosion combines mechanical erosion with chemical or electrochemical reaction. The process is accelerated by the generally rapid flow of liquid or gas over an eroded metal surface, removing dissolved ions and solid particles. As a result, the metal surface develops grooves, gullies, waves, rounded holes and valleys.

Erosion corrosion can damage most metals, especially soft ones like aluminum that are susceptible to mechanical wear, and those that depend for protection on a passive surface film, which can be eroded. Resulting damage can also be enhanced by particles or gas bubbles in a suspended state.

Intergranular Corrosion

Intergranular corrosion occurs between the crystals (or grains) that formed when the metal solidified. The composition of the areas between the crystals differs from that of the crystals themselves, and these boundary areas can become subject to intergranular corrosion. Weld areas of austenitic stainless steels are often affected by this form of corrosion, and the heat-treatable aluminum alloys are also susceptible.

Corrosion Resistance Guide

The following table has been compiled as a guide for selecting appropriate cable trays for various industrial environments. The information can only be used as a guide because corrosion processes are dictated by the unique circumstances of any particular assembly.

Corrosion is significantly effected by trace impurities which, at times, can become concentrated through wet/dry cycles in locations that are prone to condensation and evaporation. It is not uncommon to find aggressive mists created from contaminant species, notably from sulfur or halogen sources.

Temperature greatly influences corrosion, sometimes increasing the rate of metal loss, [a rule-of-thumb guide is that a 30°C change in temperature results in a 10X change in corrosion rate]. Sometimes corrosion attack slows down at higher temperatures because oxygen levels in aqueous solutions are lowered as temperatures increase. If an environment completely dries out then there can be no corrosion.

Stress-associated corrosion might occur when assemblies are poorly installed and/or fabricated, e.g., on-site welding or mechanical fastening. Premature failure can result from: corrosion fatigue, which can occur in any environment; **stress corrosion cracking**, which occurs in the presence of a specific chemical when the metal is under a tensile stress, which may be residual or applied, (e.g., from poor fabrication or welding); fretting, where two adjacent surfaces (under load) are subjected to an oscillatory motion across the mating surfaces.

Design - good design should minimize the risk of stress concentrations within a structure. Examples include sharp profiles, abrupt section changes, and threaded screws. These measures are particularly important for metals that are prone to stress corrosion cracking in specific media.

Design plays a significant role in exacerbating corrosion. Non-draining locations create liquid traps; local metal-to-metal (or metal-to-non-metal) contact points (e.g., mechanical assemblies (bolts) with washers or spacers), permit **crevice corrosion** and/or **galvanic corrosion** to occur. Areas that are poorly maintained, (e.g., surfaces are not regularly (or properly) washed and stubborn deposits remain on the metal surface), are particularly prone to localized corrosion damage due to different levels of oxygen under and adjacent to the location in question (differential aeration). Resulting damage from these situations is in the form of small holes (pits). In each of the examples just quoted there is a restricted supply of oxygen. Thus, metals (e.g., aluminum, stainless steels, zinc) that rely on oxygen to form protective corrosion films (oxides, hydroxides, carbonates, etc.) may be prone to localized **pitting** and/or **crevice corrosion**.

A further example of localized corrosion occurs when **dissimilar metals** contact each other in the presence of a corrodent, i.e., **galvanic corrosion**. Each metal will corrode but the one that is most active [anode] can be more corroded especially when there is a large surrounding area of the less active [cathodic] metal. It is wise to avoid small anodic areas. Some examples include: steel bolts [small area of anodic metal] in stainless steel plate, [large area of cathodic metal]; steel bolts in copper plate - the steel corrodes). There can be environmental influences, for example a fluid that contains active metallic species, for example copper ion contact with aluminum (copper picked up from aqueous solutions conveyed in copper pipe) - the aluminum corrodes. A further dramatic example is provided when trace quantities of mercury contact aluminum - the aluminum corrodes very rapidly. These are examples of **deposit corrosion**.

Key to Symbols in Table

The following symbols have been used throughout the TABLE in order to provide an indication about the suitability of a potential candidate material for a specific chemical environment.

NOTE: These tables should be regarded only as GUIDES to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc. Further details have been given elsewhere.

SYMBOLS:

++	first choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch).
+	good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy.
-	can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply.
X	not recommended.
(-)	brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal - intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"].
nd	no available data

Chemical Species

	Aluminum	HDG/Steel	316SS
Acetaldehyde	++	+	++
Acetic acid - aerated	(+) ^{T,C}	X	(++) ^T
Acetic acid - not aerated	(+) ^{T,C}	X	(++) ^T
Acetone	++	++	++
Acetylene	++	nd	++
Allyl alcohol	+	nd	++
Aluminum chloride - dry	+	nd	(+) ^{T,P}
Aluminum chloride - wet	X	X	(-) ^P
Aluminum sulfate - satd.	X	nd	+
Ammonia - anhydrous	++	++	++
Ammonia - gas	-	+	(+) ^T
Ammonium acetate	+	nd	+
Ammonium bicarbonate	-	nd	(+) ^T
Ammonium carbonate - satd.	+	X	+
Ammonium chloride - 28%	X	X	(+) ^{PS}
Ammonium chloride - 50%	X	X	X
Ammonium hydroxide	+	+	(++) ^C
Ammonium nitrate	+	X	(++) ^S
Ammonium phosphate - 40%	X	nd	+
Ammonium sulfate - to 30%	X	-	+
Amyl acetate	++	++	++
Asphalt	++	+	++
Beer	++	X	++
Benzene (benzol)	++	+	(+) ^P
Benzoic acid	+	nd	+
Benzol - see benzene			
Boric acid (boracic acid)	++	nd	(++) ^{T,P}
Bromine - wet	X	X	X
Butadiene (butylene)	+	+	+
Butyl alcohol (butanol)	++	++	++
Butyric acid	+	X	+
Cadmium sulfate	+	nd	++
Calcium carbonate	-	nd	+

Chemical Species (cont'd)

	Aluminum	HDG/Steel	316SS
Calcium chloride - satd.	+	X	(+) ^S
Calcium hydroxide - satd.	X	nd	+
Calcium hypochlorite - satd.	X	X	(-) ^P
Carbon dioxide - wet	++	+	+
Carbon disulfide (bisulfide)	++	+	++
Carbon tetrachloride.	X	+	(++) ^{PS}
Carbolic acid - see phenol			
Carbonic acid - see carbon dioxide			
Caustic potash - see potassium hydroxide			
Caustic soda - see sodium hydroxide			
Chlorine gas - wet	X	++	(-) ^{PS}
Chloroform	(+)dry	+	(+) ^{TS}
Chromic acid	+	nd	(+) ^P
Citric acid - dilute.	(+) ^{TC}	X	(++) ^P
Copper chloride	X	X	(-) ^P
Copper nitrate	X	nd	++
Copper sulfate	X	-	+
Cresol.	+	+	+
Crude oil	++	++	++
Diethylamine.	+	++	++
Dimethyl ketone - see acetone			
Ethyl acetate	(++) ^{dry}	++	+
Ethyl alcohol (ethanol)	++	++	++
Ethylene dichloride	(-) ^{dry}	++	(+) ^{PS}
Ethylene glycol (glycol)	++	++	++
Ferric chloride.	X	X	X
Ferric nitrate - 10%	X	nd	+
Ferrous sulfate	+	nd	(+) ^P
Formaldehyde (methanal)	(+) ^P	++	(++) ^{TC}
Fluorine gas - moist	X	X	X
Formalin - see formaldehyde			
Formic acid (methanoic acid) - 10%	(+) ^T	X	(+) ^{PC}

Chemical Species (cont'd)

	Aluminum	HDG/Steel	316SS
Furfural (furfuraldehyde)	+	.nd	+
Furol - see furfural			
Gelatin.	++	+	++
Glycerine (glycerol)	++	++	++
Hexamine - 80%	++	.nd	++
Hydrobromic acid.	X	X	X
Hydrochloric acid (muriatic acid)	X	X	X
Hydrocyanic acid - dilute	+	.nd	+
Hydrocyanic acid - conc	X	.nd	+
Hydrofluoric acid	X	X	X
Hydrogen chloride gas - dry	X	X	(++) ^S
Hydrogen chloride gas - wet	X	X	+
Hydrogen fluoride	(-) ^T	.nd	+
Hydrogen peroxide - to 40%	++	.nd	+
Hydrogen sulfide - wet	(+) ^P	.nd	(+) ^{PS}
Hypo - see sodium thiosulfate			
Hypochlorous acid	X	X	X
Iodine solution - satd.	X	X	X
Lactic acid	(+) ^T	.nd	(+) ^{PI}
Latex.	++	-	++
Lithium chloride - to 30%	X	.nd	++
Linseed oil	+	.nd	++
Magnesium chloride - 50%	X	X	(+) ^{PS}
Magnesium hydroxide	+	.nd	++
Magnesium sulfate	+	X	+
Maleic acid (maleinic acid) - 20%	+	.nd	+
Methyl alcohol (methanol)	++	++	++
Methyl ethyl ketone	+	++	+
Milk	++	X	++
Molasses	+	.nd	++
Naptha	+	+	+
Natural fats	++	++	++
Nickel chloride	X	.nd	(+) ^{PS}

Chemical Species (cont'd)

	Aluminum	HDG/Steel	316SS
Nickel sulfate	X	.nd	.+
Nitric acid	X	X	.(++) ⁱ
Oleic acid	.(++) ^T	.nd	.++
Oxalic acid - dilute	-	.nd	.+
Oxalic acid - saturated	.(+) ^T	X	.X
Paraformaldehyde - to 30%	+	.nd	.++
Perchloroethylene	+	X	.(++) ^P
Phenol (carbolic acid)	+	+	.++
Phosphoric acid - dilute	X	X	.++
Phosphoric acid - 50%	X	X	.(++) ⁱ
Picric acid	++	.nd	.+
Potassium bicarbonate - 30%	X	.nd	.++
Potassium carbonate	X	.nd	.++
Potassium chloride - to 25%	X	X	.(++) ^P
Potassium dichromate - 30%	.(++) ^T	X	.++
Potassium hydroxide	X	.nd	.(+) ^S
Potassium nitrate	++	++	.+
Potassium sulfate	++	++	.++
Propionic acid (propanoic acid)	.(+) ^T	X	.(+) ^T
Propyl alcohol (propane)	++	++	.++
Prussic acid - see hydrocyanic acid			
Pyridine	+	.nd	.++
Soaps	+	-	.+
Sodium bicarbonate - 20%	+	.nd	.++
Sodium bisulfate	X	X	.(+) ^T
Sodium bisulfite	X	X	.+
Sodium chloride - to 30%	X	X	.(+) ^{PS}
Sodium cyanide	X	.nd	.(+) ^T
Sodium hydroxide - 10-30%	X	X	.(+) ^S
Sodium hydroxide - 50%	X	X	.(++) ^S
Sodium hydroxide - conc	X	X	.++
Sodium hypochlorite - conc	X	+	.(-) ^{PS}

Chemical Species (cont'd)

	Aluminum	HDG/Steel	316SS
Sodium nitrate	++	X	++
Sodium peroxide - 10%	+	nd	+
Sodium silicate	++	nd	++
Sodium sulfate	(++) ^{30%}	X	++
Sodium sulfide - to 50%	X	nd	(+) ^T
Sodium thiosulfate	+	nd	++
Steam	(+) ^P	++	++
Stearic acid	+	nd	++
Sorbital (hexahydric alcohol)	++	+	++
Sulfur dioxide - dry	+	+	++
Sulfur dioxide - wet	X	X	(+) ^T
Sulfuric acid - to 80%	X	X	X
Sulfuric acid - 80-90%	X	X	(-) ^I
Sulfuric acid - 98%	X	X	(+) ^I
Tannic acid (tannin)	X	X	+
Tartaric acid - to 50%	(+) ^T	nd	++
Toluene (Toluol; methyl benzene)	++	++	++
Trichloroethylene	(++) ^T	+	(+) ^P
Turpentine	+	++	++
Water - acid, mine	X	-	(++) ^P
Water - potable	+	+	++
Water - sea	+	+	++
Xylene	++	nd	++
Zinc chloride - dilute	++	nd	(++) ^{PS}

7 Electrical Grounding Capacity

The National Electrical Code, Article 392-7 allows cable tray to be used as an equipment grounding conductor. All T&B standard cable trays are classified by Underwriter's Laboratories per US NEC Table 392-7 based on their cross sectional area.

The corresponding cross-sectional area for each siderail design (2-siderails) is listed on the label. This cable tray label is attached to each straight section that is UL classified. Fittings are not subject to CSA or UL.

**NEC TABLE 392.7 (B)
Metal Area Requirements for Cable Trays
Used as Equipment Grounding Conductors**

Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System	Minimum Cross-Sectional Area of Metal* In Square Inches	
	Steel Cable Trays	Aluminum Cable Trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50 **	0.40
1000	-	0.60
1200	-	1.00
1600	-	1.50
2000	-	2.00 **

For SI units: one square inch = 645 square millimeters.

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.

For larger ampere ratings an additional grounding conductor must be used.

See pages 198 to 201 for grounding and bonding products.

For more information on grounding and bonding cable tray refer to section 4.7 of the NEMA VE 2-2006 Cable Tray installation guidelines.

Thermal Expansion and Contraction

A cable tray system may be affected by thermal expansion and contraction, which must be taken into account during installation. To determine the number of expansion splice plates you need, decide the length of the straight cable tray runs and the total difference between the minimum winter and maximum summer temperatures. To function properly, expansion splice plates require accurate gap settings between trays. To find the gap (see Table 2):

PLOT YOUR GAP SETTING

- Locate the lowest metal temperature on low temperature line.
- Locate the highest metal temperature on high temperature line.
- Connect these two points.
- Locate installation temperature and plot to high/low line. Drop plot to gap setting.

MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS (For 1" Movement)

Temperature Differential (°F)	Steel (Feet)	Aluminum (Feet)
25	512	260
50	256	130
75	171	87
100	128	65
125	102	52
150	85	43
175	73	37

Note: Every pair of expansion splice plates requires two bonding jumpers for grounding continuity.

Table 1

The support nearest the midpoint between expansion splice plates should be anchored, allowing the tray longitudinal movement in both directions. All other support location should be secured by expansion guides. (see Table 3)

When a cable tray system is used as an equipment grounding conductor, it is important to use bonding jumpers at all expansion connections to keep the electrical circuit continuous.

Gap Setting of Expansion Splice Plate

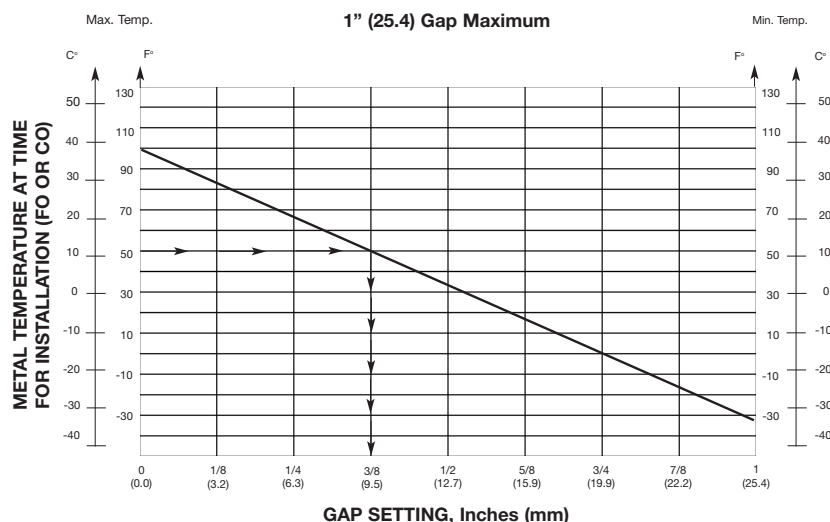


Table 2

Typical Cable Tray Installation

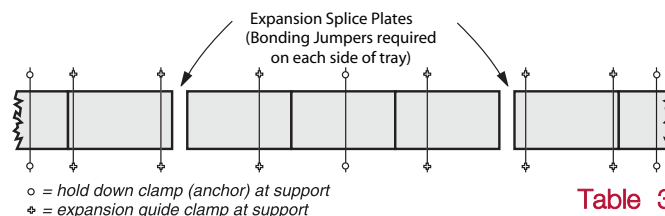


Table 3

Structural Design

Structural Design

An installed cable tray system functions as a beam under a uniformly distributed load. The four basic beam configurations found in cable installations are simple, continuous, cantilever and fixed. Each is attached to the cable tray support in a different way.

Continuous Beam

Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations. This configuration exhibits characteristics of the simple beam and the fixed beam. For example, with loads applied to all spans at the same time, the ends spans function like simple beams, while the counterbalancing loads on either side of a support function like a fixed beam. As the number of spans increases, the continuous beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple Beam

A straight section of cable tray supported at both ends but not fastened functions as a simple beam. Under a load, the tray will exhibit deflection. The load carrying capacity of a cable tray unit should be based on simple beam loading, since this type of loading occurs at run ends, offsets, etc., in any tray system. The NEMA/CSA Load Test is a simple beam, uniformly distributed load test, used primarily because it is easy to test and represents the worst case beam condition compared to continuous or fixed configurations. The only criterion for NEMA/CSA acceptance is the ability to support 150% of the rated load.

Fixed Beam

Like the cantilever beam, a fixed beam applies more to the cable tray supports than the tray itself, because both ends of a fixed beam are firmly attached to the supports. The rigid attachment prevents movement and increases load bearing ability.

Cantilever Beam

A cantilever beam has more to do with the cable tray supports than the tray. Attaching one end of a beam to a support while the other end remains unsupported, as when wall mounting a bracket, creates a cantilever beam configuration. Obviously, with one end unsupported, the load rating of a cantilever beam is significantly less than that of a simple beam.

Design Loadings

Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. The allowable cable load varies with the span, type and width of the tray.

Splicing

Since the need for a continuous system requires that siderails be spliced, splice plates must be both strong and easy to install. T&B Aluminum Snap-In Splice Plate allows hands free installation of hardware for easier assembly. If practical, splices in a continuous span cable tray system should be installed at points of minimum stress. Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

Examples of splicing configurations are shown on page 17.

Basic Design Stresses

Allowable working stresses are the basis for all structural design. Since they must be of such magnitude as to assure the safety of the structure against failure, their selection is a matter of prime importance. In practice, a basic design stress is determined by dividing the strength of the material by a factor of safety. The determining factors in establishing a set of basic design stresses for a structure are therefore the mechanical properties of the materials and suitable factors of safety. Yield strength and ultimate strength are the mechanical properties most commonly considered to govern design. Values for these properties are readily obtainable. In determining the factor of safety, the designer must usually be guided by current practice—the “standard specifications” adopted by various technical societies and associations—and his or her own judgment and experience.

Factors of safety

Since a low value for the factor of safety results in economy of material, the designer seeks to establish a value as low as is practical, based on sound engineering judgment and experience. In making the determination, consideration of the following factors are highly important:

The accuracy with which the loads to represent service conditions are selected and assumed. If there is much doubt concerning these loads, the basic design stress will have to be more conservative than under conditions where the loads are known with considerable accuracy.

The accuracy with which the stresses in the members of a structure are calculated. Many approximations are used in structural design to estimate stress distribution. The choice of a factor of safety should be consistent with how accurate the analysis is. The more precise the method, the greater the allowable unit stress may be.

The significance of the structure being designed. The designer must keep in mind the relative importance of the structure and appraise the possibility of its failure causing significant property damage or loss of life. In this respect, the significance of the design will govern the choice of a factor of safety to a considerable extent.

The factors of safety used in designing most common types of structures are an outgrowth of the experience gained from many applications and tests—even failures. The trend in recent years has been to reduce the factors of safety in line with improved quality of material and increasing knowledge of stress distribution. Further reductions may be made in the future as greater accuracy in determinations becomes possible and practicable.

Application of design stresses to cable tray systems

A cable tray manufacturer must design standard products to accommodate the great variations encountered in applications. The factors affecting the selection of a suitable basic design stress necessarily result in more conservative stresses than might otherwise be required.

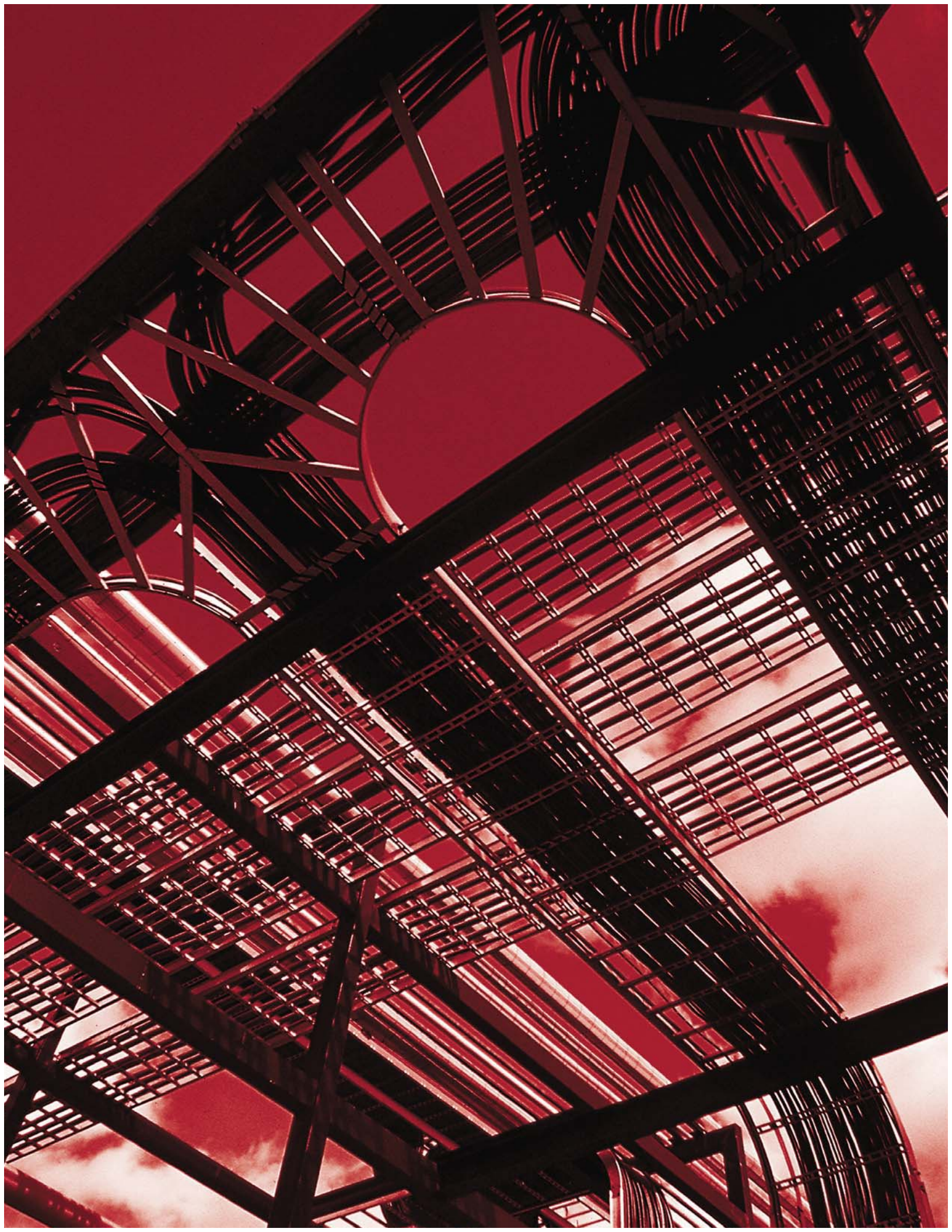
An engineer, who is in a position to determine specific stress requirements with a far greater degree of accuracy, may consider that the manufacturer's basic design stresses are too conservative for a particular project. Using individual experience and judgment, he or she would establish a new set of basic design stresses, selecting those safety factors that would result in a cable tray system best suited to meet the projected service conditions. With these stresses, the engineer can easily calculate an increase or decrease in the manufacturer's loading data, since the load is always in direct proportion to the stress.

The factors of safety used in determining maximum allowable stresses are as follows:

- **Aluminum Alloys**
 - a. For tension: the lower of $\frac{1}{3}$ the minimum ultimate strength or $\frac{1}{2}$ the minimum yield strength in tension.
 - b. For compression: the lower of $\frac{1}{3}$ the minimum ultimate strength or $\frac{2}{5}$ the minimum yield strength in compression.
 - c. For shear: the lower of $\frac{1}{3}$ the minimum ultimate strength or $\frac{1}{2}$ the minimum yield strength in shear.
- **For Hot Rolled Steels**
 - a. For tension: the lower of $\frac{1}{2}$ the minimum ultimate strength or the minimum yield point in tension times .61.
 - b. For compression: the lower of $\frac{1}{2}$ the minimum ultimate strength or the minimum yield point in compression times .61.
 - c. For shear: maximum stress not to exceed a value of $\frac{2}{3}$ the basic design stress for tension.

Design Efficiency

A tray designed to perform its required function with the minimum weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of siderails are different from those of rungs or ventilated bottom; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage. The strength of the siderail and rungs is increased by the proper use of metal in the high strength heat-treated aluminum or continuously rolled cold-worked steel sections.



Loading

Loading

It is important to note that, per NEMA Standard VE1, cable tray is not designed to support personnel. The user should display appropriate warnings to prevent the use of cable tray as walkways.

Cable Loads

The cable load is the total weight, expressed in kg/m or lb/ft, of all the cables that will be placed in the cable tray.

Seismic Loads

It is now known that cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. However, if you have specific seismic specifications for selected cable tray, please consult T&B to ensure your specifications are met.

Load Diagrams for Beams

CANTILEVER BEAMS

Uniform Load

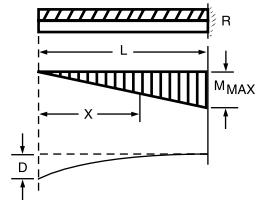
w per unit of length: total load w
Reaction $R = wL = W$

$$\text{Moment at any point: } M = \frac{WX^2}{2} = \frac{wLX^2}{2}$$

$$\text{Maximum moment } M_{\max} = \frac{wL^2}{2} = \frac{WL}{2}$$

$$\text{Maximum deflection, } D = \frac{wL^4}{8EI} = \frac{WL^3}{8EI}$$

$$\text{Maximum Shear, } V = wL$$



Concentrated Load at Free End

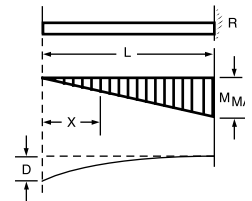
Reaction; $R = P$

Moment at any point: $M = Px$

Maximum moment, $M_{\max} = PL$

Maximum deflection, $D = \frac{PL^3}{3EI}$

Maximum Shear, $V = P$



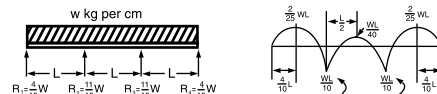
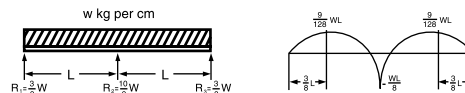
CONTINUOUS BEAMS

Two Span

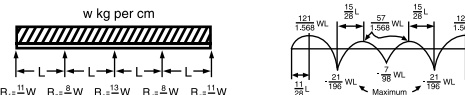
$W = wL$

$R = \text{Reaction, kg}$

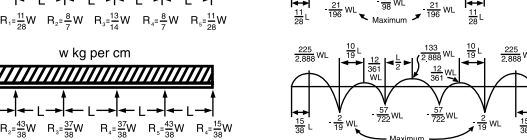
$L = \text{Span Length, cm } R_1 = cw$



Three Span



Four Span



SIMPLE BEAMS

Uniform Load

w per unit of length, total load w

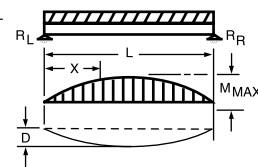
ReactionS: $R_L = R_R = \frac{WL}{2} = \frac{W}{2}$

$$\text{Moment at any point: } M = \frac{wX(L-X)}{2} = \frac{WX(L-X)}{2L}$$

$$\text{Maximum moment, AT CENTRE } M_{\max} = \frac{wL^2}{8} = \frac{WL}{8}$$

$$\text{Maximum deflection: } D = \frac{5wL^4}{384EI} = \frac{5WL^3}{384EI}$$

$$\text{Maximum Shear: } V = \frac{WL}{2}$$



Concentrated Load at Center

Reaction $R_L = R_R = \frac{P}{2}$

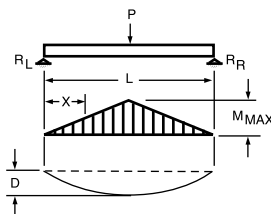
Moment at any point: $X \leq \frac{L}{2}, M = \frac{PX}{2}$

$X > \frac{L}{2}, M = \frac{P(L-X)}{2}$

Maximum moment, At Center, $M_{\max} = \frac{PL}{4}$

$$\text{Maximum deflection, } D = \frac{PL^3}{384EI}$$

$$\text{Maximum Shear, } V = \frac{P}{2}$$



Concentrated Load at any Point

Reaction: $R_L = \frac{Pb}{L}, R_R = \frac{Pa}{L}$

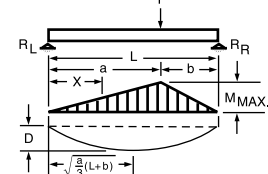
Moment at any point: $X < a, M = R_L X = \frac{PbX}{L}$

$X > a, M = R_R (L-X) = \frac{Pa(L-X)}{L}$

Maximum moment, At $X = a, M_{\max} = \frac{Pab}{L}$

Maximum deflection, $D = \frac{Pab(L+b)3a(L+b)}{27EI}$

Maximum Shear, $V = \frac{Pa}{L}$, WHEN $a > b$



General Loading Requirements and Maps (IEEE: Section 25 Loading for Grades B, C and D)

General

1. It is necessary to assume the loadings that may be expected to occur on a line because of wind and ice during all seasons of the year. These weather loadings shall be the values of loading resulting from the application of Rules 250B or 250C. Where both rules apply, the required loading shall be the one that, when combined with the appropriate overload capacity factors, has the greater effect on strength requirements.
2. Where construction or maintenance loads exceed those imposed by Rule 250A1, which may occur more frequently in light loading areas, the assumed loadings shall be increased accordingly.
3. It is recognized that loadings actually experienced in certain areas in each of the loading districts may be greater, or in some cases, may be less than those specified in these rules. In the absence of a detailed loading analysis, no reduction in the loadings specified therein shall be made without the approval of the administrative authority.

Combined Ice and Wind Loading

Three general degrees of loading due to weather conditions are recognized and are designated as heavy, medium, and light loading. **Figure 250-1** shows the districts in which these loadings are normally applicable.

Figure 250-1 shows the radial thickness of ice and the wind pressures to be used in calculating loading. Ice is assumed to weigh 57 lb/ft³ (913 kg/m³).

Extreme Wind Loading

If any portion of a structure or its supported facilities exceeds 60 ft (18m) above ground or water level, the applicable horizontal wind speed of **Figure 250-2**, as determined by the linear interpolation, shall be used to calculate horizontal wind pressures. These pressures shall be applied to the entire structure and supported facilities without ice loading. The following formulas shall be used to calculate wind pressures on cylindrical surfaces:

$$\begin{aligned}\text{pressure in lb/ft}^2 &= 0.00256 (v \text{ m/h})^2 \\ \text{pressure in pascals} &= 0.613 (v \text{ m/h})^2\end{aligned}$$

where m = meters
 s = seconds

Figure 250-2 lists the conversions of velocities to pressures for typical wind speeds as calculated by the formulas listed above. If no portion of the structure or its supported facilities exceeds 60 ft (18m) above ground or water level, the provisions of this rule are not required.

For Canadian customers, please refer to Annex A (page 251) for **Figure 250-1CDN** and **Figure 250-2CDN**.
For US customers, please refer to Annex B (page 252) for **Figure 250-1USA** and **Figure 250-2USA**.



Engineering Cable Tray Specification

Cable Tray

- Cable tray shall be by one manufacturer and shall consist of straight sections, fittings and accessories per NEMA VE1-2006/CSA C22.2 No. 126.1-02. Cable tray must be listed by UL as equipment grounding conductor. There shall be no burrs, projections or sharp edges to damage the cable insulation.

Material

- **Aluminum** - All siderails, and rungs shall be of extruded aluminum type 6063-T6. Siderails shall be of I-beam construction.
- **Pre-Galvanized Steel** - All siderails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M-06a with G90 coating thickness. Siderail shall be reinforced with flanges turned inward.
- **Hot Dip Galvanized Steel** - All siderails and rungs shall be made from steel conforming to the requirements of A1008/A1008M-07, SS grade 33, type 2 or A1011/A1011-06b SS, grade 33 and shall be hot dip galvanized after manufacture per ASTM A123 providing a minimum thickness of 1.50 oz per ft.²
- **Stainless Steel** - All cable tray and accessories shall be of type AISI 316 stainless steel.

Tray Types

- **Ladder** - Ladder tray shall incorporate two siderails connected by lateral rungs. Rungs shall provide minimum 1e" bearing surface and have slots perpendicular to the centerline of the rung on 1" centers for attachment of cable ties. Rungs shall also have an open slot to facilitate attachment of pipe straps and other accessories. Rungs shall be installed at 6", 9", 12" or 18" spacing. The rungs shall not be below the bottom of the siderail.
- **Solid Bottom** - Solid Bottom tray shall incorporate two siderails connected by rungs on 12" centers with a solid sheet applied below the rungs.
- **Ventilated Trough** - Ventilated trough tray shall incorporate two siderails connected by rungs at 4" spacing.

Dimensions

- **Siderail Height** - Siderails heights shall be 3-5/8", 4", 5", 6", and 7" minimum loading depths shall be 2-5/8", 3", 4", 5", and 6".
- **Length** - All cable tray straight sections shall be supplied in 12', 24', 3m and 6m lengths.
- **Width** - Cable tray shall be supplied in 6", 9", 12", 18", 24", 30", 36", and 42" widths as required.
- **Radiused Fittings** - For all fittings requiring a radius that radius shall be 12", 24", 36", and 48" and shall be measured to the nearest perpendicular surface.

Accessories

- **Covers and Accessories** - Covers shall be supplied to protect tray cable where needed. Appropriate holddowns shall be supplied to properly attach the covers to the tray.
- **Splice Plates** - Aluminum splice plates shall be designed to snap into tray siderail and shall be supplied with four square neck carriage bolts and hex nuts for attachment. Steel splice plates shall be supplied with four square neck carriage bolts and hex nuts for attachment.

Loading Capabilities

- Cable tray shall meet specified NEMA/CSA load ratings with safety factor of 1.5. The cable tray should also be able to support a 200 lb concentrated load at midspan over and above stated cable load.

Design and Manufacture

- Cable tray design shall be that of T&B Cable Tray Systems as manufactured by Thomas & Betts.

Selection of Thomas & Betts Series of Cable Tray

— Please refer to Table 2 for Aluminum and Table 3 for Steel —

TABLE 1 Load / Span Class Designation

LOAD		SPAN, m (ft)				
kg/m	lb/ft	2.4 (8)	3.0 (10)	3.7 (12)	4.9 (16)	6.0 (20)
37	(25)	—	A	—	—	—
67	(45)	—	—	—	—	D
74	(50)	8A	—	12A	16A	20A
97	(65)	—	C	—	—	—
112	(75)	8B	—	12B	16B	E or 20B
149	(100)	8C	—	12C	16C	20C
179	(120)	—	D	—	—	—
299	(200)	—	E	—	—	—

Note: 8A/B/C, 12A/B/C, 16A/B/C, and 20A/B/C are the traditional NEMA designations.

A, C, D, and E are the conventional CSA designations.

TABLE 2 Aluminum Load / Span Class Designation

Siderail Height	Series	Load Depth (in) Nominal	NEMA Class	CSA Class
4"	AH04 AH14 AH24 AH34 AH44 AH54	3"	8B 12A 12B 12C 20A 20B	— C/3m D/3m D/6m E/3m E/6m
5"	AH25 AH35 AH45	4"	12C 20A 20B	D/6m E/3m E/6m
6"	AH06 AH16 AH26 AH36 AH46 AH56 AH66	5"	12B 12C 20A 20B 20C 20C 20C	C/3m D/6m E/3m E/6m — — —
7"	AH27 AH2C7 AH37	6"	20B 20C 20C	E/6m — —

Note: See appendix for information on Aluminum "Heavy Load" bearing trays and spans beyond 6 m.

TABLE 3 Steel Load / Span Class Designation

Siderail Height	Series	Load Depth (in) Nominal	NEMA Class	CSA Class
3-5/8"	SH13/SP13/SS13	2-5/8"	12A	C/3m
4"	SH14/SP14/SS14 SH34/SP34/SS34	3"	12C 20A	D/3m D/6m
5"	SH25/SP25/SS25 SH45/SP45/SS45 SH55/SP55/SS55	4"	20A 20B 20C	D/6m E/6m —
6"	SH06/SP06/SS06 SH16/SP16/SS16 SH36/SP36/SS36 SH46/SP46/*	5"	12A 20A 20B 20C	C/3m D/6m E/6m —
7"	SH37/SP37/SS37	6"	20C	—

*Note: Stainless Steel 316 available, consult with T&B sales for further information.



Section 2



Features

- Straight Siderail Design: Extruded I-beam
Nominal Height 4" to 7"
Loading Height 3" to 6"
- Snap-in splice plate connection.
- Reverse position of every other rung for bottom or top mounting of cable ties.
- Versatile continuous open slot rungs (strut profile).
- Exclusive Ty-Rap cable tie slots (5/8 x 5/8) on one inch (1") centers.
- Extra wide rung design.
- Four bolt connection.
- Choice of two styles of fitting (U & H) siderails.

Applications

COMMERCIAL

- Schools
- Hospitals
- Office Buildings
- Airports
- Casinos
- Stadiums

INDUSTRIAL

- Petro-Chemical Plants
- Automotive Plants
- Paper Plants
- Food Processing
- Power Plants
- Refineries
- Manufacturing
- Mining

Accessories

- Each pair of splice plates comes with 3/8" mounting hardware.
- Complete line of accessories and support systems.

Material

6063 T6 Aluminum Alloy

Compliance

CSA, NEMA, NEC, UL

Load Ratings

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

Aluminum Cable Tray

Straight Length Tray Bottom Types Available Ladder, Ventilated and Solid Trough

Ladder

- Extra wide aluminum rungs are welded to extruded aluminum I-beam siderails. Every second rung is reversed to allow for easy top or bottom mounting of cable ties and clamps. All edges and welds are rounded and smooth to prevent cable damage.



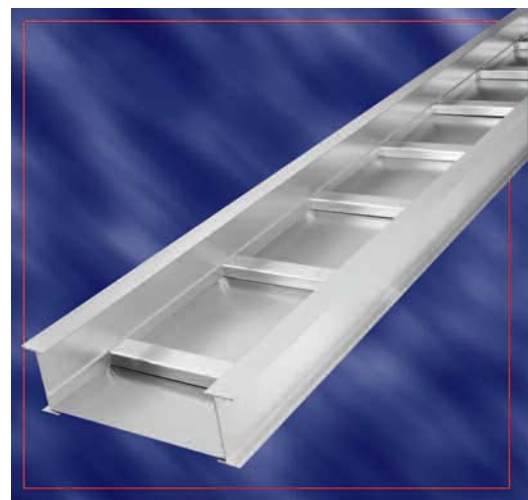
Ventilated

- A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in) in the direction parallel to the tray side rails (rung edge to rung edge).



Solid Trough

- A fabricated structure consisting of a bottom without ventilation openings within separate longitudinal side rails. Rungs are not perforated, and not alternated (up/down). However, Ty-Raps can be inserted diagonally between rung and bottom sheet for cable fastening.



NOTE:

Fast and easy snap-in splice plates are provided with each straight section.

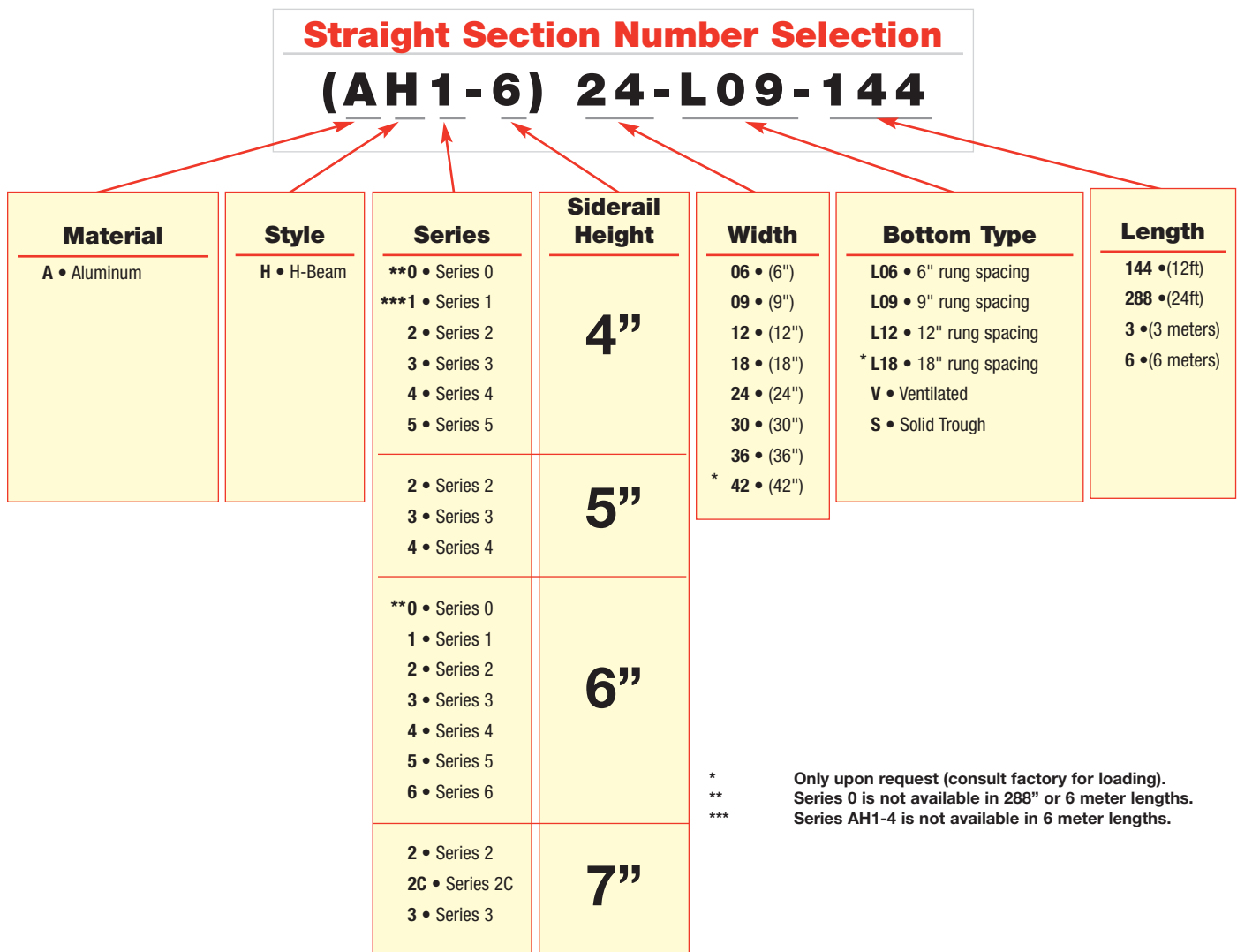
T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

Aluminum Cable Tray

Straight sections utilize a 7" splice plate and the fittings have tangents at the extremities. This style offers enhanced aesthetics and rigidity system to the end-user.

Aluminum Straights



Aluminum Cable Tray

4" Straight Sections Series 0-4, 1-4, 2-4 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(A H 0 - 4) - 24 - L 09 - 144

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	** 0 • Series 0 *** 1 • Series 1 2 • Series 2	4 • (4")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") * 42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	144 • (12ft) 288 • (24ft) 3 • (3 meters) 6 • (6 meters)

- * Only upon request (consult factory for loading).
 ** Series 0 is not available in 288", or 6 meter lengths nor is it available in solid bottom
 *** Series 1 is not available in 6 meter lengths.

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor
 For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 60 to 99.

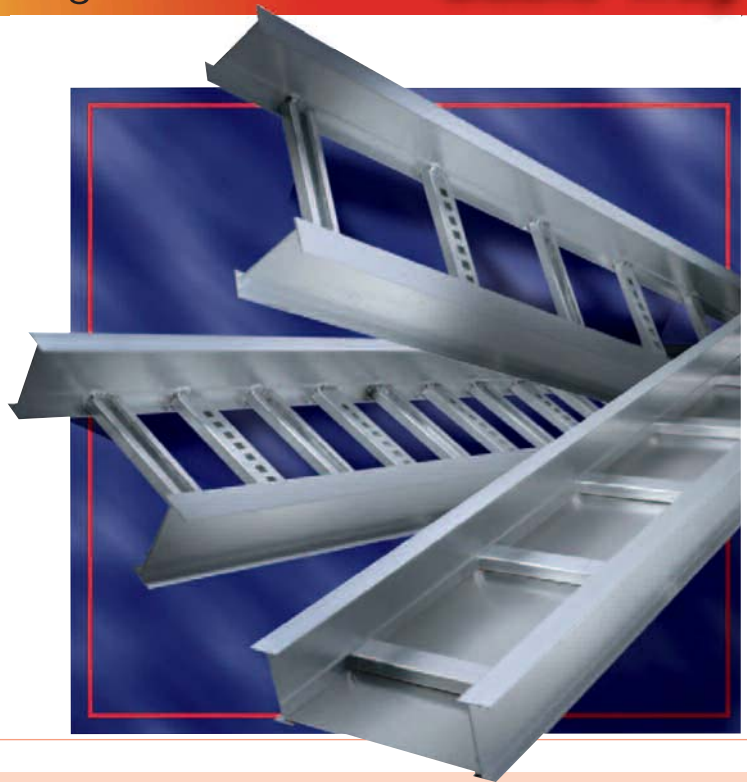
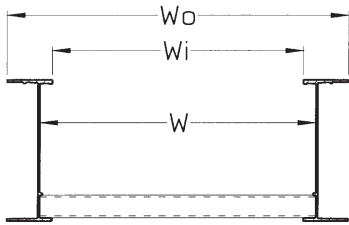
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH0-4	Load (lb/ft)	152	86	55	38	-	-	-	-
	Deflection (in.)	0.265	0.472	0.737	1.062	-	-	-	-
	Deflection Factor	0.002	0.006	0.013	0.028	-	-	-	-
AH1-4	Load (lb/ft)	239	134	86	60	44	34	27	22
	Deflection (in.)	0.318	0.565	0.884	1.272	1.732	2.262	3.863	3.534
	Deflection Factor	0.001	0.004	0.010	0.021	0.039	0.067	0.108	0.164
AH2-4	Load (lb/ft)	358	202	129	90	66	51	40	32
	Deflection (in.)	0.416	0.740	1.156	1.673	2.277	2.974	3.764	4.590
	Deflection Factor	0.001	0.004	0.009	0.019	0.034	0.059	0.094	0.143

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

4" Straight Sections Series 0-4, 1-4, 2-4 Ladder, Ventilated and Solid Trough

Aluminum Cable Tray



Aluminum
Straights

W (in.)	AH0-4		AH1-4		AH2-4	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	7.35	4.93	7.46	4.88	8.38	4.88
9	10.35	7.93	10.46	7.88	11.38	7.88
12	13.35	10.93	13.46	10.88	14.38	10.88
18	19.35	16.93	19.46	16.88	20.38	16.88
24	25.35	22.93	25.46	22.88	26.38	22.88
30	31.35	28.93	31.46	28.88	32.38	28.88
36	37.35	34.93	37.46	34.88	38.38	34.88
42	43.35	40.93	43.46	40.88	44.38	40.88

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
AH0-4		$I_x = 1.67 \text{ in}^4$ $S_x = 0.774 \text{ in}^3$ Area = 0.742 in^2	8B	-	UL Cross Sectional Area : 0.60 in^2
AH1-4		$I_x = 2.19 \text{ in}^4$ $S_x = 1.05 \text{ in}^3$ Area = 0.906 in^2	12A, 8C	C1	UL Cross Sectional Area : 0.60 in^2
AH2-4		$I_x = 2.51 \text{ in}^4$ $S_x = 1.17 \text{ in}^3$ Area = 0.986 in^2	12B	D1/3m	UL Cross Sectional Area : 0.60 in^2

Note: See appendix for information on "Heavy Load" bearing trays and spans beyond 6 m.

Aluminum Cable Tray

4" Straight Sections Series 3-4, 4-4, 5-4 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(A H 5 - 4) - 24 - L 09 - 144

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	3 • Series 3 4 • Series 4 5 • Series 5	4 • (4")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") * 42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	144 • (12ft) 288 • (24ft) 3 • (3 meters) 6 • (6 meters)

* Only upon request (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 60 to 99.

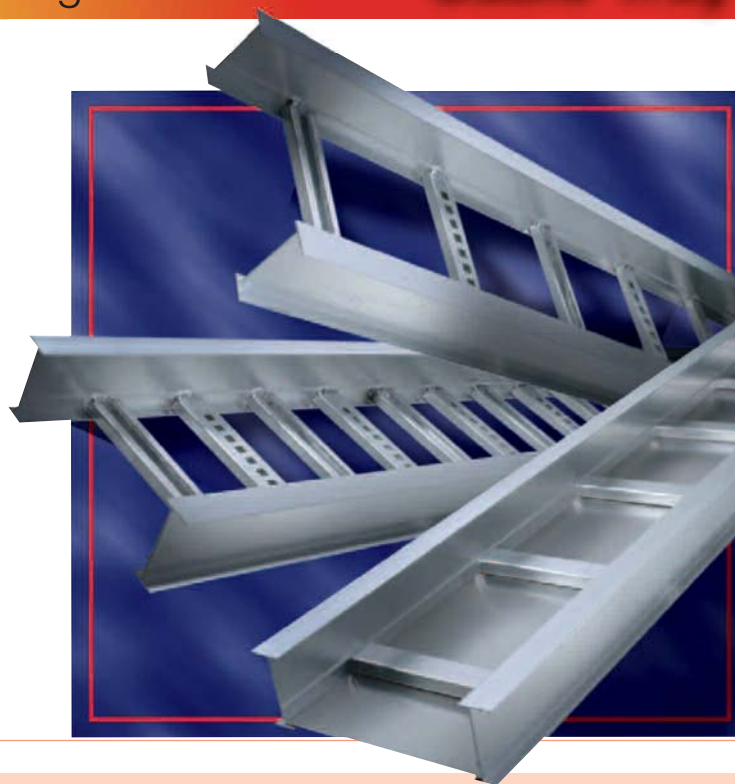
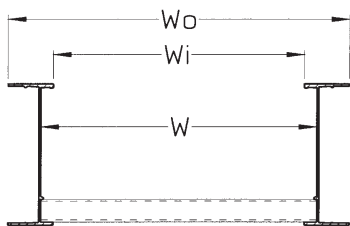
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH3-4	Load (lb/ft)	522	294	188	131	96	73	58	47
	Deflection (in.)	0.477	0.849	1.326	1.909	2.599	3.395	4.296	5.304
	Deflection Factor	0.001	0.003	0.007	0.015	0.027	0.046	0.074	0.113
AH4-4	Load (lb/ft)	589	331	212	147	108	83	65	53
	Deflection (in.)	0.441	0.785	1.226	1.766	2.403	3.139	3.973	4.905
	Deflection Factor	0.001	0.002	0.006	0.012	0.022	0.038	0.061	0.092
AH5-4	Load (lb/ft)	867	488	312	217	159	122	96	78
	Deflection (in.)	0.505	0.898	1.403	2.021	2.751	3.593	4.547	5.614
	Deflection Factor	0.001	0.002	0.004	0.009	0.017	0.029	0.047	0.072

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

4" Straight Sections Series 3-4, 4-4, 5-4 Ladder, Ventilated and Solid Trough

Aluminum Cable Tray



Aluminum
Straights

W (in.)	AH3-4		AH4-4		AH5-4	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.38	4.88	8.41	4.91	8.38	4.88
9	11.38	7.88	11.41	7.91	11.38	7.88
12	14.38	10.88	14.41	10.91	14.38	10.88
18	20.38	16.88	20.41	16.91	20.38	16.88
24	26.38	22.88	26.41	22.91	26.38	22.88
30	32.38	28.88	32.41	28.91	32.38	28.88
36	38.38	34.88	38.41	34.91	38.38	34.88
42	44.38	40.88	44.41	40.91	44.38	40.88

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
AH3-4		$I_x = 3.19 \text{ in}^4$ $S_x = 1.41 \text{ in}^3$ Area = 1.22 in^2	12C, 16A	D1/6m	UL Cross Sectional Area : 1.00 in^2
AH4-4		$I_x = 3.89 \text{ in}^4$ $S_x = 1.75 \text{ in}^3$ Area = 1.40 in^2	20A, 16B	E/3m	UL Cross Sectional Area : 1.00 in^2
AH5-4		$I_x = 5.00 \text{ in}^4$ $S_x = 2.24 \text{ in}^3$ Area = 1.76 in^2	20B, 16C	E/6m	UL Cross Sectional Area : 1.50 in^2

Aluminum Cable Tray

5" Straight Sections Series 2-5, 3-5, 4-5 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH2-5) - 24 - L09 - 144

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	2 • Series 2 3 • Series 3 4 • Series 4	5 • (5")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") * 42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	144 • (12ft) 288 • (24ft) 3 • (3 meters) 6 • (6 meters)

* Only upon request (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 60 to 99.

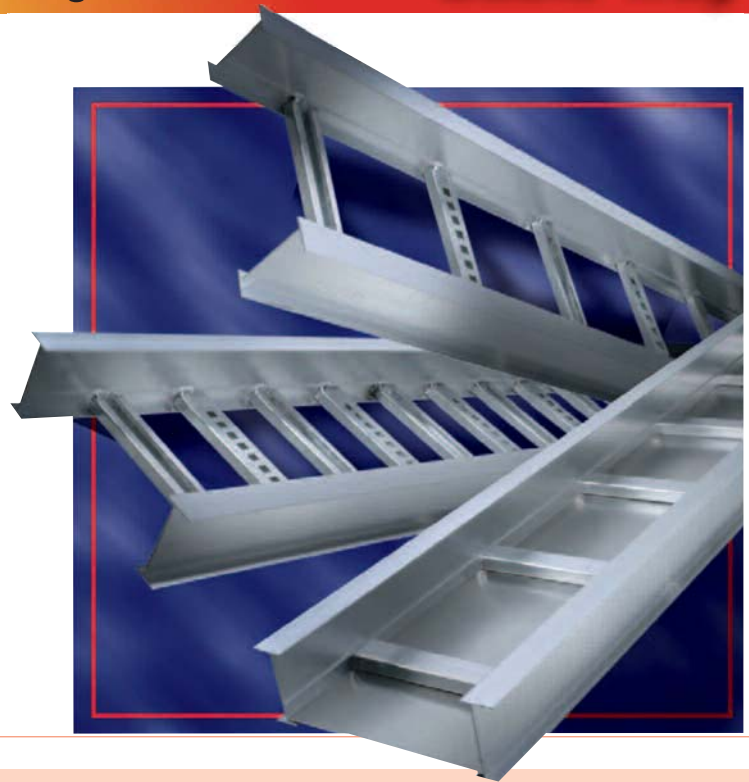
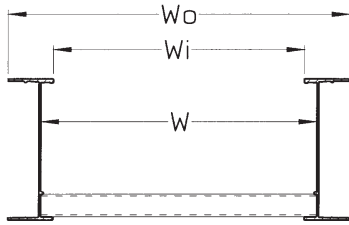
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH2-5	Load (lb/ft)	511	288	184	128	94	72	57	46
	Deflection (in.)	0.328	0.584	0.912	1.313	1.787	2.334	2.955	3.648
	Deflection Factor	0.001	0.002	0.005	0.010	0.019	0.032	0.052	0.079
AH3-5	Load (lb/ft)	600	338	216	150	110	84	67	54
	Deflection (in.)	0.313	0.557	0.870	1.253	1.706	2.228	2.820	3.481
	Deflection Factor	0.001	0.002	0.004	0.008	0.015	0.026	0.042	0.064
AH4-5	Load (lb/ft)	844	475	304	211	155	119	94	76
	Deflection (in.)	0.337	0.599	0.936	1.348	1.834	2.396	3.033	3.744
	Deflection Factor	0.004	0.001	0.003	0.006	0.012	0.020	0.032	0.049

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

5" Straight Sections Series 2-5, 3-5, 4-5 Ladder, Ventilated and Solid Trough

Aluminum Cable Tray



Aluminum
Straights

	AH2-5		AH3-5		AH4-5	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.39	4.89	8.43	4.93	8.45	4.95
9	11.39	7.89	11.43	7.93	11.45	7.95
12	14.39	10.89	14.43	10.93	14.45	10.95
18	20.39	16.89	20.43	16.93	20.45	16.95
24	26.39	22.89	26.43	22.93	26.45	22.95
30	32.39	28.89	32.43	28.93	32.45	28.95
36	38.39	34.89	38.43	34.93	38.45	34.95
42	44.39	40.89	44.43	40.93	44.45	40.95

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
AH2-5		$I_x = 4.54 \text{ in}^4$ $S_x = 1.73 \text{ in}^3$ $\text{Area} = 1.23 \text{ in}^2$	12C,16A	D1/6m	UL Cross Sectional Area : 1.00 in ²
AH3-5		$I_x = 5.58 \text{ in}^4$ $S_x = 2.13 \text{ in}^3$ $\text{Area} = 1.52 \text{ in}^2$	20A,16B	E/3m	UL Cross Sectional Area : 1.50 in ²
AH4-5		$I_x = 7.31 \text{ in}^4$ $S_x = 2.66 \text{ in}^3$ $\text{Area} = 1.87 \text{ in}^2$	20B,16C	E/6m	UL Cross Sectional Area : 1.50 in ²

Aluminum Cable Tray

6" Straight Sections Series 1-6, 2-6, 3-6 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(A H 2 - 6) - 24 - L 09 - 144

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	**0 • Series 0 1 • Series 1 2 • Series 2 3 • Series 3	6 • (6")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") * 42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	144 • (12ft) 288 • (24ft) 3 • (3 meters) 6 • (6 meters)

* Only upon request (consult factory for loading).

** Available in 3 m and 144 in lengths only.

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 60 to 99.

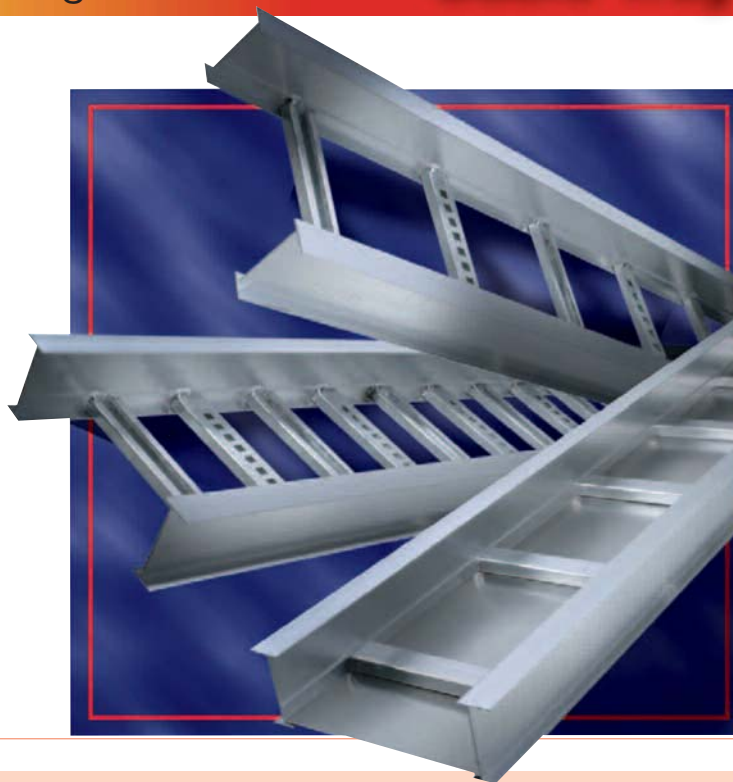
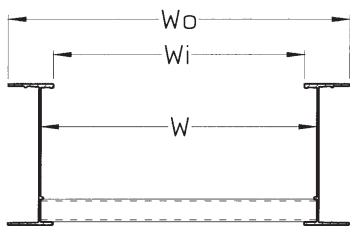
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH0-6	Load (lb/ft)	308	173	111	77	—	—	—	—
	Deflection (in.)	0.069	0.128	0.384	0.552	—	—	—	—
	Deflection Factor	0.0002	0.0007	0.003	0.007	—	—	—	—
AH1-6	Load (lb/ft)	511	288	184	128	94	72	57	46
	Deflection (in.)	0.191	0.340	0.531	0.764	1.040	1.359	1.720	2.132
	Deflection Factor	0.0004	0.001	0.003	0.006	0.011	0.019	0.030	0.046
AH2-6	Load (lb/ft)	589	331	212	147	108	83	65	53
	Deflection (in.)	0.203	0.360	0.563	0.811	1.104	1.442	1.825	2.253
	Deflection Factor	0.0003	0.001	0.003	0.006	0.010	0.017	0.028	0.043
AH3-6	Load (lb/ft)	889	500	320	222	163	125	99	80
	Deflection (in.)	0.199	0.353	0.552	0.794	1.081	1.412	1.788	2.207
	Deflection Factor	0.0002	0.001	0.002	0.004	0.007	0.011	0.018	0.028

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

6" Straight Sections Series 1-6, 2-6, 3-6 Ladder, Ventilated and Solid Trough

Aluminum Cable Tray



Aluminum
Straights

	AH0-6		AH1-6		AH2-6		AH3-6	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	7.87	4.87	8.37	4.87	8.38	4.88	8.89	4.89
9	10.87	7.87	11.37	7.87	11.38	7.88	11.89	7.89
12	13.87	10.87	14.37	10.87	14.38	10.88	14.89	10.89
18	19.87	16.87	20.37	16.87	20.38	16.88	20.89	16.89
24	25.87	22.87	26.37	22.87	26.38	22.88	26.89	22.89
30	31.87	28.87	32.37	28.87	32.38	28.88	32.89	28.89
36	37.87	34.87	38.37	34.87	38.38	34.88	38.89	34.89
42	43.87	40.87	44.37	40.87	44.38	40.88	44.89	40.89

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
AH0-6		$I_x = 6.27$ $S_x = 1.92$ Area = 1.22	12B	C	UL Cross Sectional Area : 1.00 in ²
AH1-6		$I_x = 7.80 \text{ in}^4$ $S_x = 2.36 \text{ in}^3$ Area = 1.43 in ²	12C,16A	D/6M	UL Cross Sectional Area : 1.00 in ²
AH2-6		$I_x = 8.47 \text{ in}^4$ $S_x = 2.59 \text{ in}^3$ Area = 1.55 in ²	20A,16B	E/3M	UL Cross Sectional Area : 1.00 in ²
AH3-6		$I_x = 13.05 \text{ in}^4$ $S_x = 3.88 \text{ in}^3$ Area = 2.12 in ²	20B,16C	E/6M	UL Cross Sectional Area : 2.00 in ²

Aluminum Cable Tray

6" Straight Sections Series 4-6, 5-6, 6-6 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH5-6)-24-L09-144

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	4 • Series 4 5 • Series 5 6 • Series 6	6 • (6")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") * 42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	144 • (12ft) 288 • (24ft) 3 • (3 meters) 6 • (6 meters)

* Only upon request (consult factory for loading).

Note: See appendix for information on "Heavy Load" bearing trays and spans beyond 6 m.

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 60 to 99.

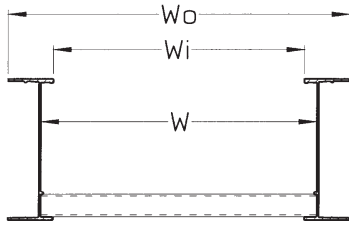
Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH4-6	Load (lb/ft)	1133	638	408	283	208	159	126	102
	Deflection (in.)	0.238	0.424	0.662	0.954	1.298	1.696	2.146	2.649
	Deflection Factor	0.0002	0.001	0.002	0.003	0.006	0.011	0.017	0.026
AH5-6	Load (lb/ft)	1334	756	484	336	247	189	149	121
	Deflection (in.)	0.249	0.443	0.693	0.997	1.358	1.773	2.244	2.771
	Deflection Factor	0.0002	0.001	0.002	0.003	0.005	0.009	0.015	0.023
AH6-6	Load (lb/ft)	1889	1063	680	472	347	266	210	170
	Deflection (in.)	0.315	0.560	0.875	1.260	1.715	2.240	2.835	3.500
	Deflection Factor	0.0002	0.001	0.001	0.003	0.005	0.008	0.014	0.021

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

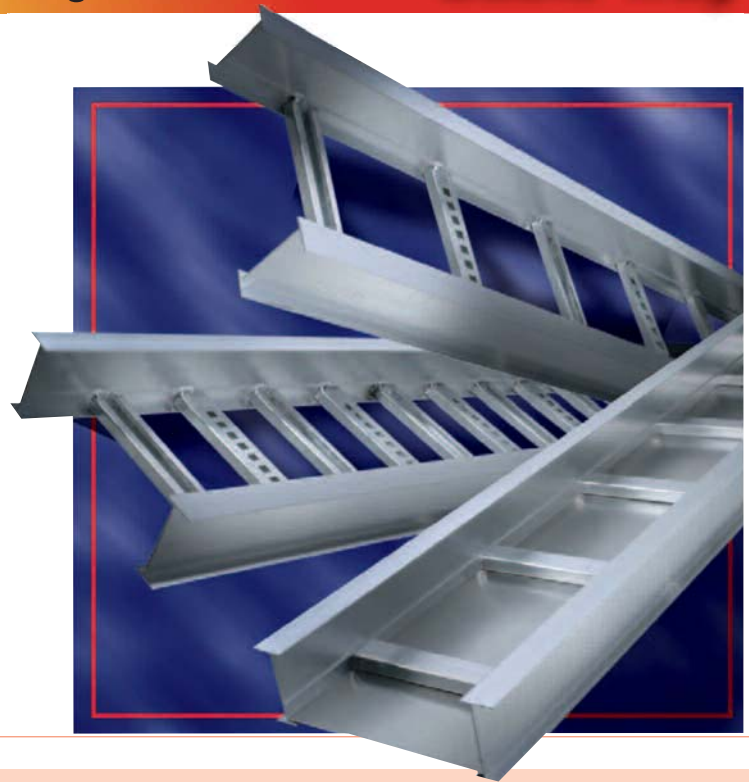
6" Straight Sections Series 4-6, 5-6, 6-6 Ladder, Ventilated and Solid Trough

Aluminum Cable Tray



W (in.)	AH4-6		AH5-6		AH6-6	
	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.90	4.90	8.93	4.93	9.01	5.01
9	11.90	7.90	11.93	7.93	12.01	8.01
12	14.90	10.90	14.93	10.93	15.01	11.01
18	20.90	16.90	20.93	16.93	21.01	17.01
24	26.90	22.90	26.93	22.93	27.01	23.01
30	32.90	28.90	32.93	28.93	33.01	29.01
36	38.90	34.90	38.93	34.93	39.01	35.01
42	44.90	40.90	44.93	40.93	45.01	41.01

Note: See appendix for information on "Heavy Load" bearing trays and spans beyond 6 m.



Aluminum
Straights

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
AH4-6		$I_x = 13.86 \text{ in}^4$ $S_x = 4.07 \text{ in}^3$ Area = 2.32 in^2	20C	—	UL Cross Sectional Area : 2.00 in^2
AH5-6		$I_x = 15.63 \text{ in}^4$ $S_x = 4.66 \text{ in}^3$ Area = 2.68 in^2	Exceeds 20C	—	UL Cross Sectional Area : 2.00 in^2
AH6-6		$I_x = 18.84 \text{ in}^4$ $S_x = 5.51 \text{ in}^3$ Area = 3.25 in^2	Exceeds 20C	—	UL Cross Sectional Area : 2.00 in^2

Aluminum Cable Tray

7" Straight Sections
Series 2-7, 2C-7, 3-7
Ladder, Ventilated and Solid Trough

Straight Section Number Selection

(AH2-7)-24-L09-144

Material	Style	Series	Siderail Depth	Width	Bottom Type	Length
A • Aluminum	H • H-Beam	2 • Series 2 2C • Series 2C 3 • Series 3	7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") * 42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	144 • (12ft) 288 • (24ft) 3 • (3 meters) 6 • (6 meters)

* Only upon request (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 60 to 99.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
AH2-7	Load (lb/ft)	844	475	304	211	155	119	94	76
	Deflection (in.)	0.149	0.265	0.415	0.597	0.813	1.061	1.343	1.658
	Deflection Factor	0.0002	0.001	0.001	0.003	0.005	0.009	0.014	0.022
AH2C-7	Load (lb/ft)	1167	656	420	292	214	164	130	105
	Deflection (in.)	0.130	0.229	0.440	0.673	0.914	1.195	1.517	1.868
	Deflection Factor	0.0001	0.0003	0.001	0.002	0.004	0.007	0.012	0.018
AH3-7	Load (lb/ft)	1456	819	524	364	267	205	162	131
	Deflection (in.)	0.168	0.298	0.466	0.671	0.913	1.192	1.509	1.863
	Deflection Factor	0.0001	0.0004	0.001	0.002	0.003	0.006	0.009	0.014

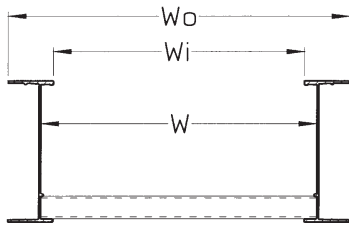
Note: See appendix for information on "Heavy Load" bearing trays and spans beyond 6 m.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

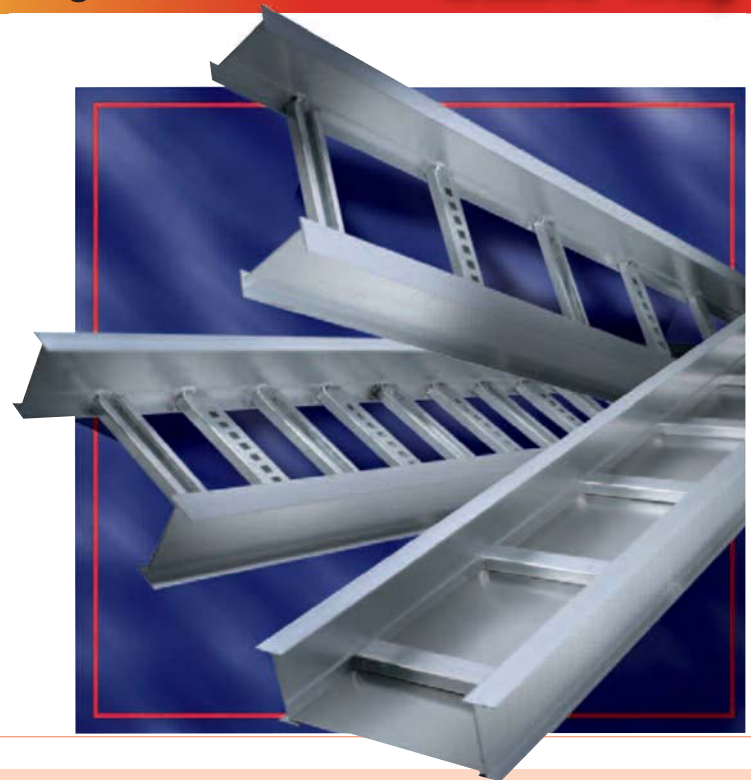
Thomas&Betts

7" Straight Sections Series 2-7, 2C-7, 3-7 Ladder, Ventilated and Solid Trough

Aluminum Cable Tray



	AH2-7		AH2C-7		AH3-7	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	8.90	4.90	8.97	4.97	9.00	5.00
9	11.90	7.90	11.97	7.97	12.00	8.00
12	14.90	10.90	14.97	10.97	15.00	11.00
18	20.90	16.90	20.97	16.97	21.00	17.00
24	26.90	22.90	26.97	22.97	27.00	23.00
30	32.90	28.90	32.97	28.97	33.00	29.00
36	38.90	34.90	38.97	34.97	39.00	35.00
42	44.90	40.90	44.97	40.97	45.00	41.00



Aluminum
Straights

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
AH2-7		$I_x = 16.50 \text{ in}^4$ $S_x = 4.06 \text{ in}^3$ Area = 2.14 in^2	20B	E/6m	UL Cross Sectional Area : 2.00 in^2
AH2C-7		$I_x = 20.24 \text{ in}^4$ $S_x = 5.00 \text{ in}^3$ Area = 2.66 in^2	Exceeds 20C	—	UL Cross Sectional Area : 2.00 in^2
AH3-7		$I_x = 25.32 \text{ in}^4$ $S_x = 6.35 \text{ in}^3$ Area = 3.30 in^2	Exceeds 20C	—	UL Cross Sectional Area : 2.00 in^2

Note: See appendix for information on "Heavy Load" bearing trays and spans beyond 6 m.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

U-Style

Which Tray Style Meets the

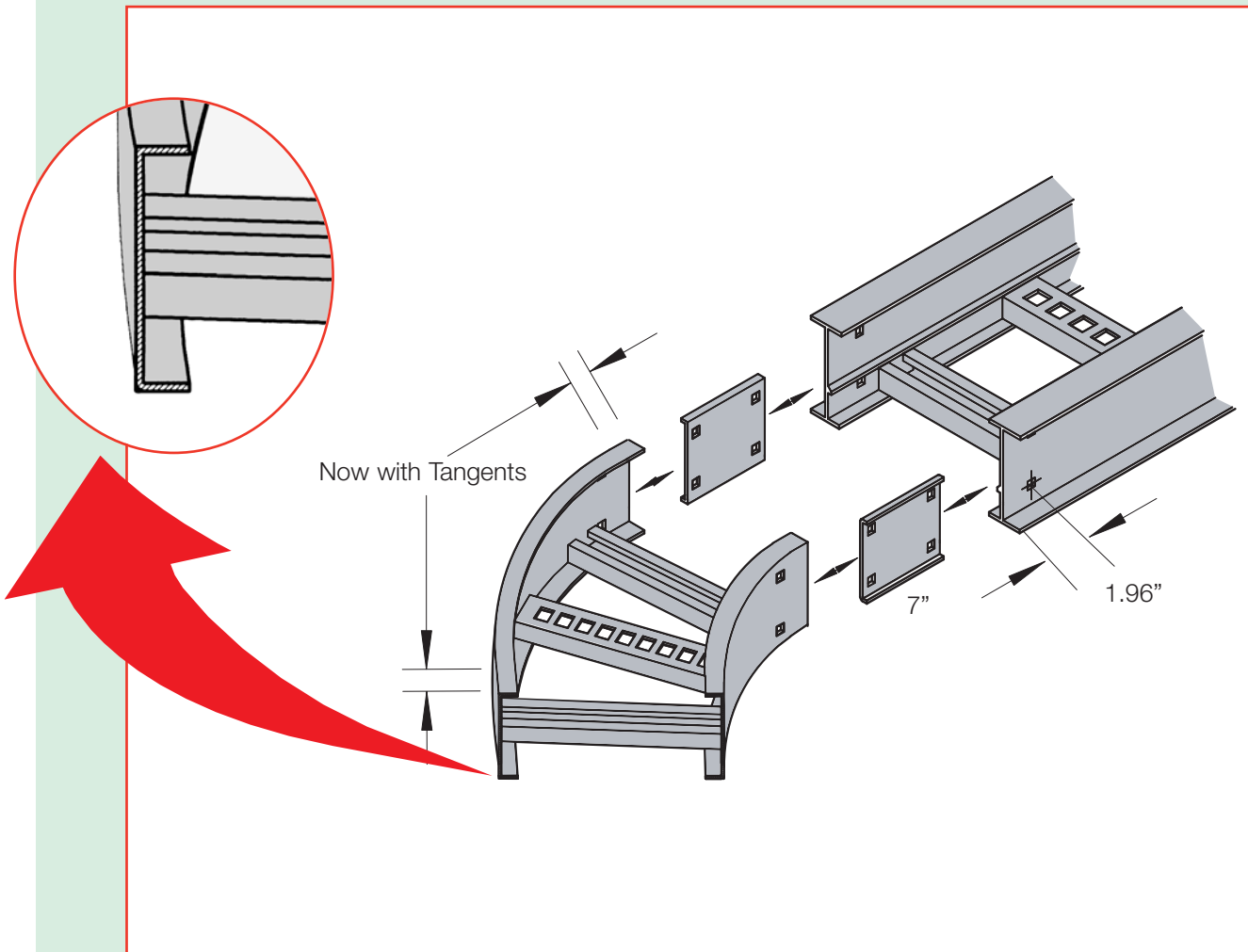
— **U-Style** features fittings constructed with side rail flanges on the inside only (U-Beam).

Features

- Functional design
- Simplicity of design
- Tangents on fittings
- 7" Snap-in splice plate
- U-shaped fitting siderails

Benefits

- Lowest purchase price
- Easy to install
- Occupies less space in areas where space is restrained
- Easy to align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle



H-Style

Project Criteria and Budget?

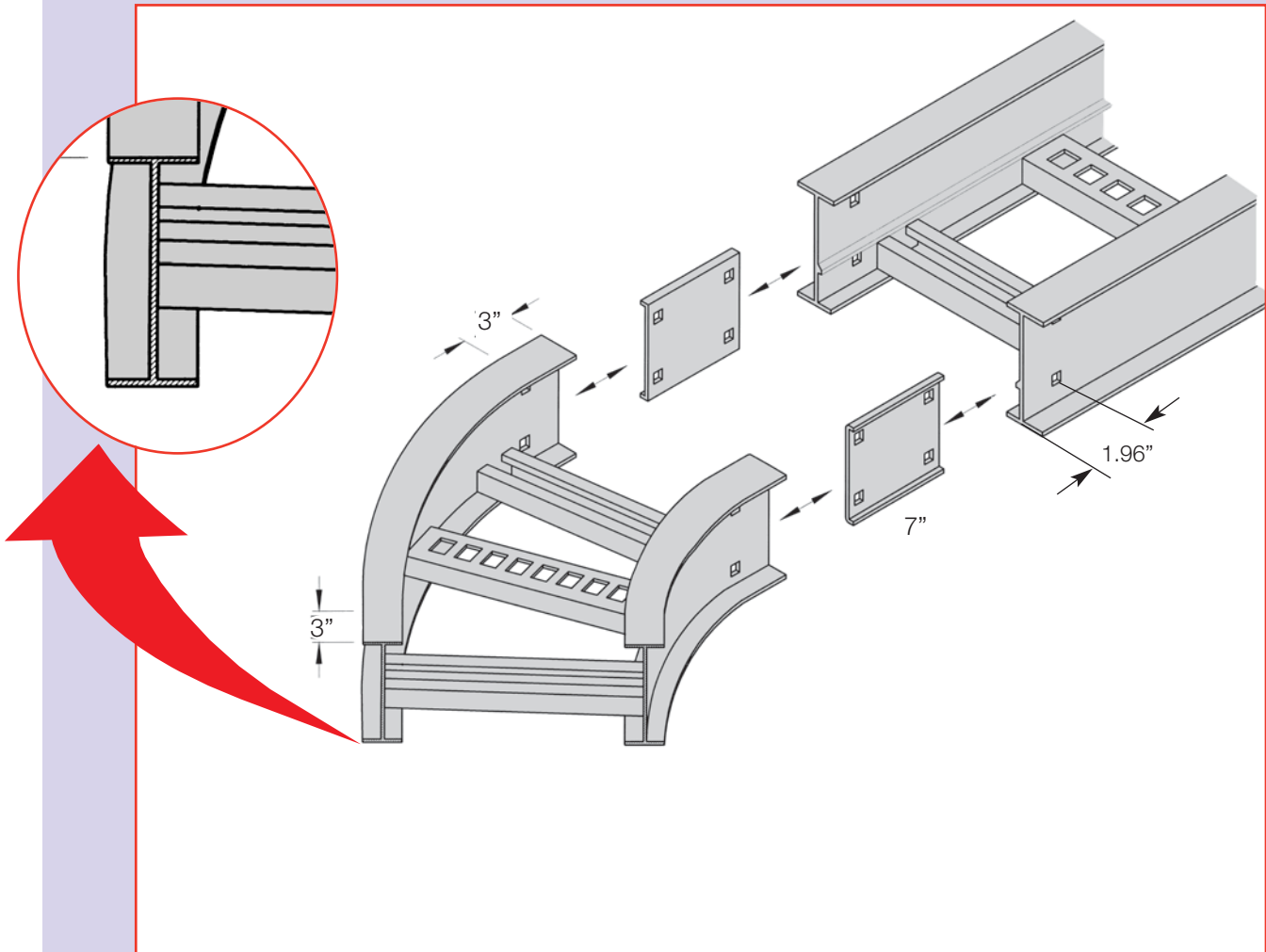
— **H-Style** features fittings constructed with side rail having inner and outer flanges (H-Beam).

Features

- Premium design
- Simplicity of design
- 3" tangents on fittings
- 7" Snap-in splice plate
- H-shaped fitting siderails

Benefits

- Improved aesthetics and customer appeal
- Easy to install
- Improved system rigidity
- Easy to align straights and fittings
- Splice plate holds components together while hardware is inserted





Fitting Number Selection

Aluminum Cable Tray

Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings.

This step of the cable tray selection process requires that the specifier chooses between two distinct styles U and H.

Note: The U-Style and H-Style systems are interchangeable.

U-Style Fitting

A U-shaped extrusion forms the fitting siderail.

U-Style fittings utilize a 7" splice plate and the fittings have tangents at the extremities.

This style offers maximum quality versus cost ratios of the installation.

H-Style Fitting

An H-shaped extrusion forms the fitting siderail.

H-Style fittings utilize a 7" splice plate and the fittings have 3" tangents at the extremities.

This style offers enhanced aesthetics to the end-user and increased system rigidity.

Fitting Number Selection							
(AUF-6)-24-L-VO60-12							
Fitting Material	Fitting Style	Siderail Depth	Width	Bottom Type	Fitting Type	** Angle	† Nominal Radius
A • Aluminum	U • U-Beam H • H-Beam	4 • (4") 5 • (5") 6 • (6") 7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	* L • Ladder *** V • Ventilated **** S • Solid Trough	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VO • Vertical Outside Bend VTD • Vertical Tee Down VTU • Vertical Tee Up HYR • Horizontal Wye Right HYL • Horizontal Wye Left RT • Horizontal Reducing Tee ET • Horizontal Expanding Tee EX • Horiz. Expand Cross HLR • Horizontal Left Reducer HSR • Horizontal Straight Reducer HRR • Horizontal Right Reducer CS • Cable Support Fitting	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")

** Angle is required for HB, VI, VO only.

† Radius is not required for the following Fitting Types:
HYR, HYL, HLR, HRR, HSR

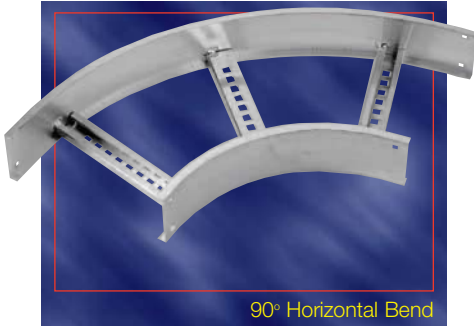
* Manufactured with 9" rung spacing measured at the center line of fitting.

*** Manufactured with 4" edge to edge rung spacing measured at the center line of fitting.

**** Manufactured with flat sheet inserted under rungs with 9" rung spacing measured at the center line of fitting.

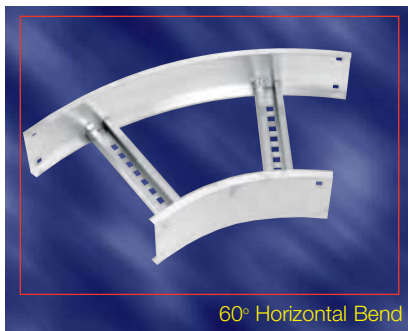
Horizontal Bends

U-Style



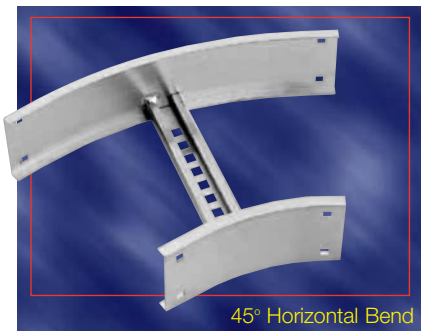
Page 72

90° Horizontal Bend



Page 72

60° Horizontal Bend



Page 74

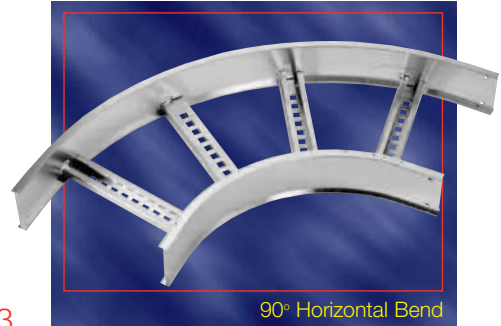
45° Horizontal Bend



Page 74

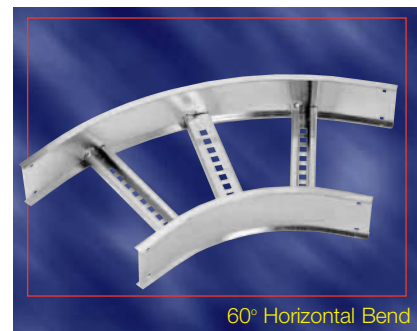
30° Horizontal Bend

H-Style



Page 73

90° Horizontal Bend



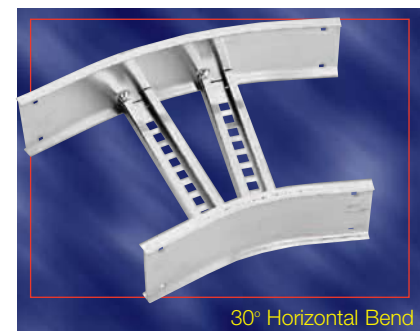
Page 73

60° Horizontal Bend



Page 75

45° Horizontal Bend



Page 75

30° Horizontal Bend

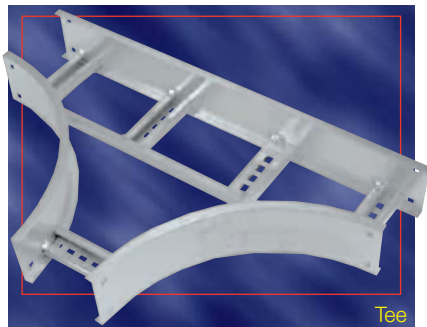
T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Horizontal Fittings Selection Guide

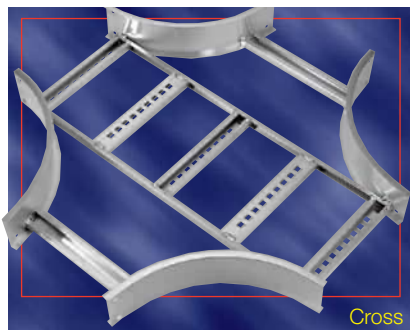
Aluminum Cable Tray

Horizontal Tees, Crosses

U-Style

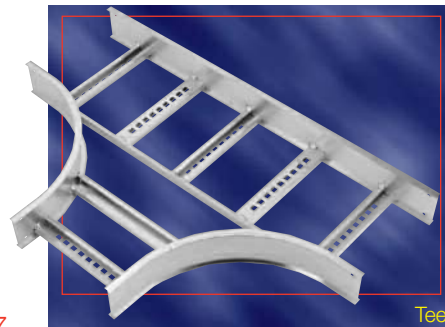


Page 76

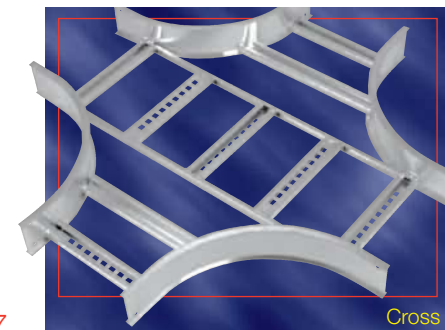


Page 76

H-Style



Page 77

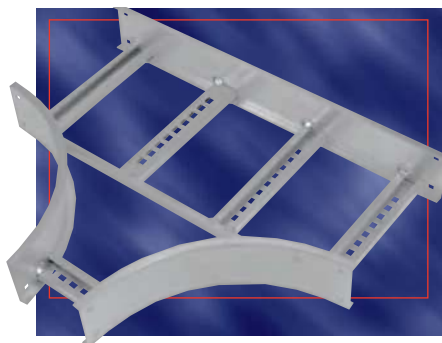


Page 77

Aluminum
Fittings

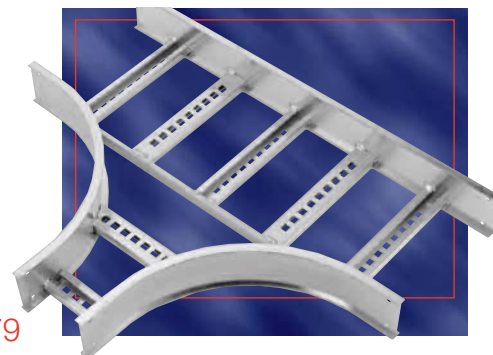
Horizontal Reducing Tees

U-Style



Page 78

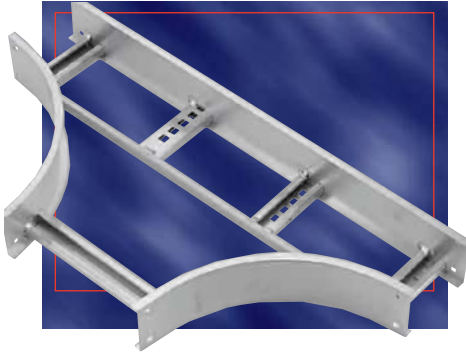
H-Style



Page 79

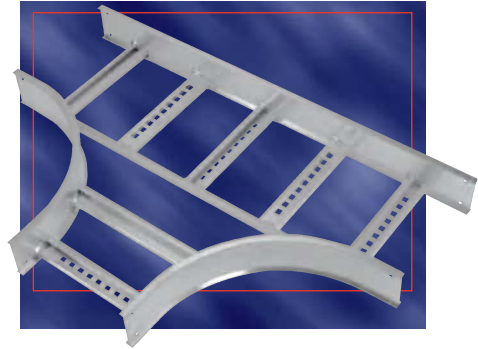
Horizontal Expanding Tees

U-Style



Page 80

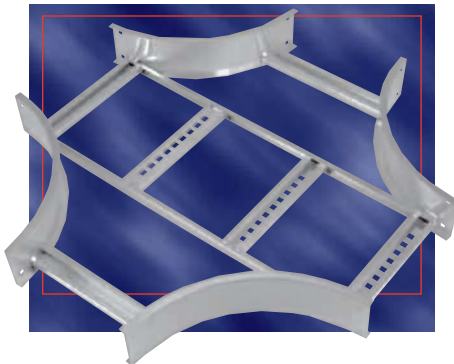
H-Style



Page 81

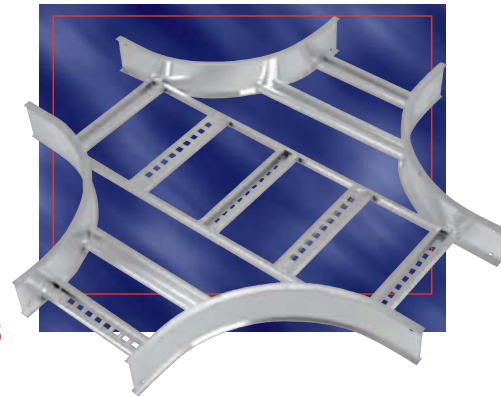
Horizontal Expanding / Crosses

U-Style



Page 82

H-Style



Page 83

Horizontal Fittings Selection Guide

Aluminum Cable Tray

Reducers

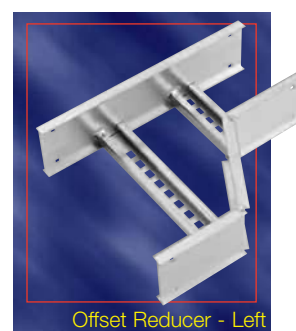
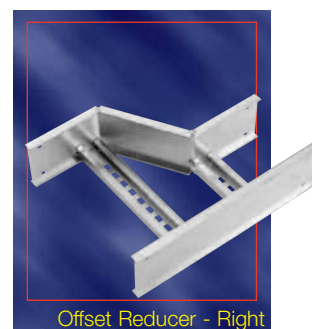
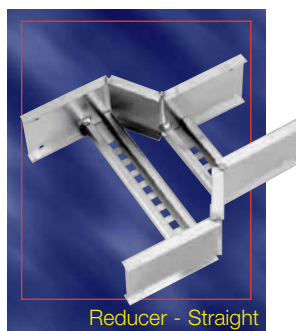
U-Style

Page 84



H-Style

Page 85

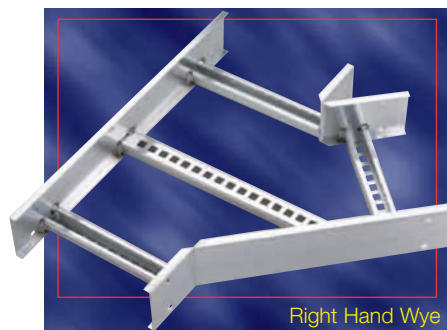


Aluminum
Fittings

Horizontal Wyes

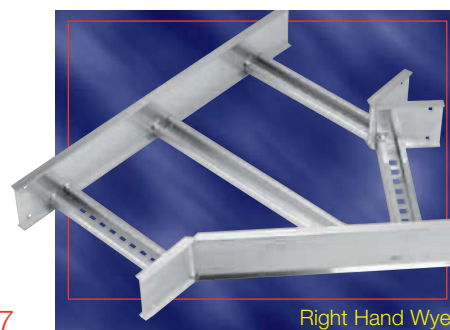
U-Style

Page 86



H-Style

Page 87

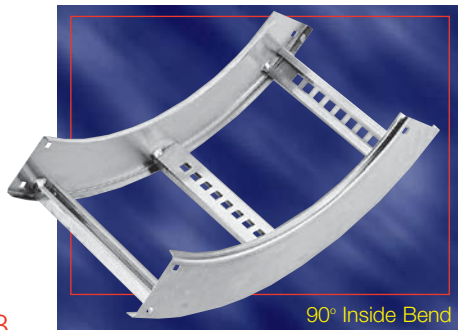


Vertical Bends

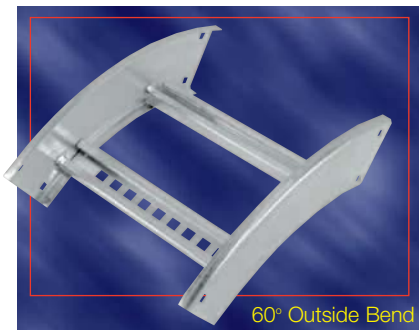
U-Style



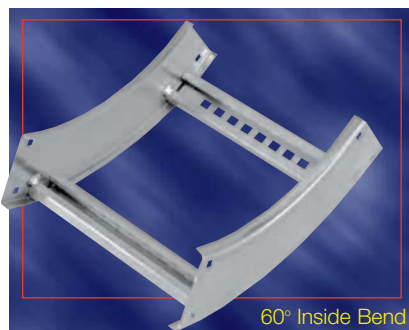
Page 88



Page 88

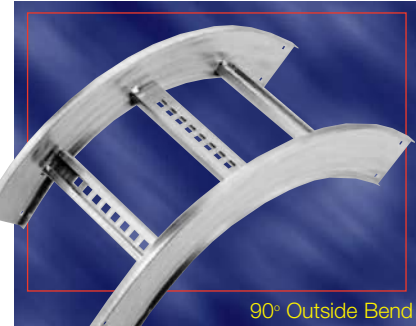


Page 90

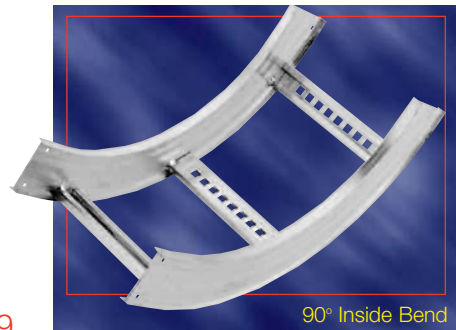


Page 90

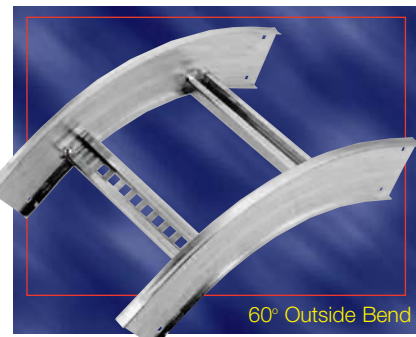
H-Style



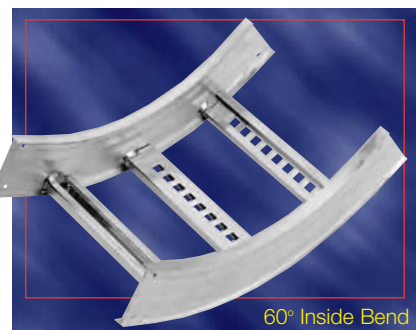
Page 89



Page 89



Page 91



Page 91

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Vertical Fittings Selection Guide

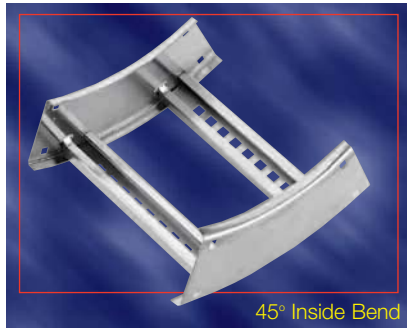
Aluminum Cable Tray

Vertical Bends (Cont'd.)

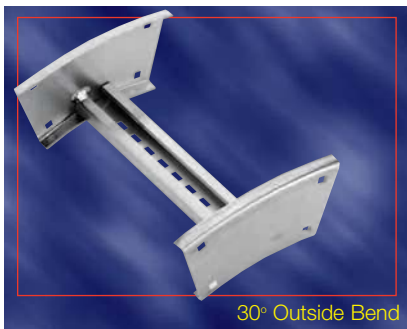
U-Style



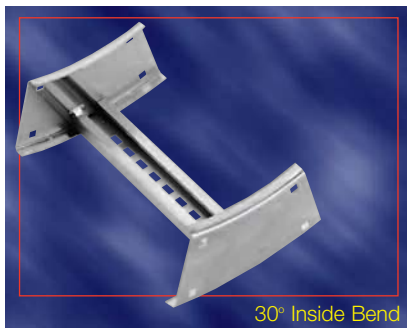
Page 92



Page 92

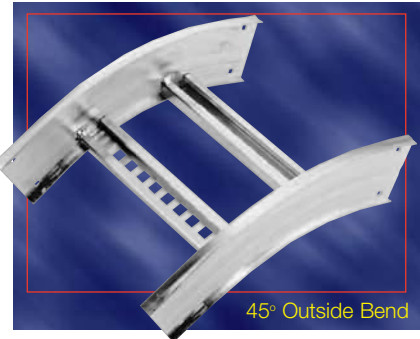


Page 94

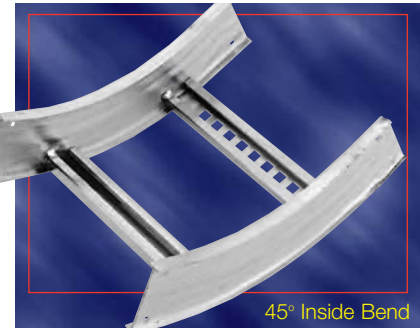


Page 94

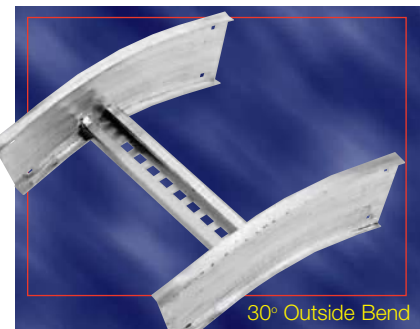
H-Style



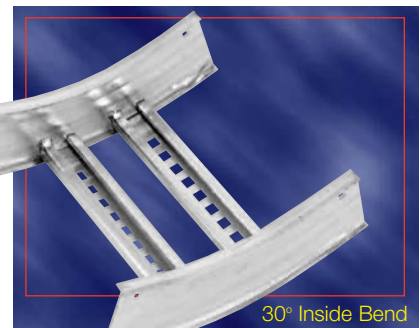
Page 93



Page 93



Page 95

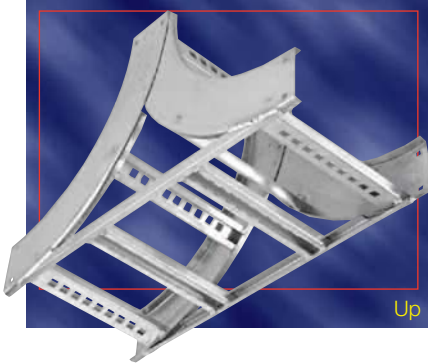


Page 95

Aluminum
Fittings

Vertical Tees Up / Down

U-Style

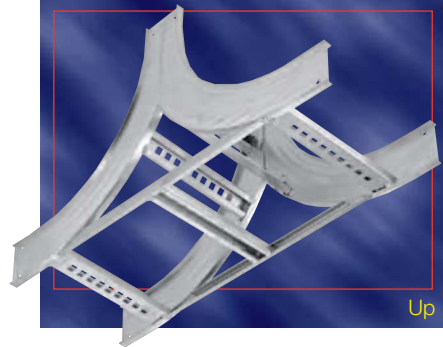


Page 96

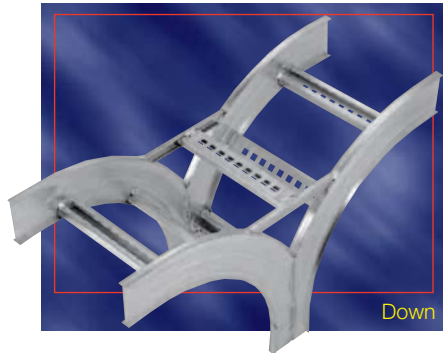


Page 96

H-Style



Page 97



Page 97

Cable Supports

U-Style



Page 98

H-Style

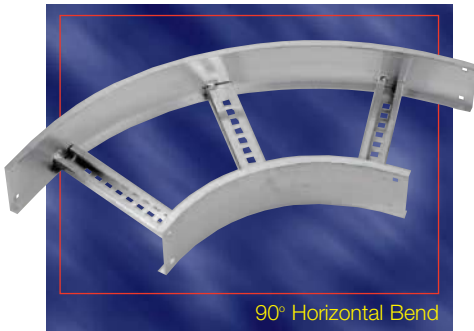


Page 99

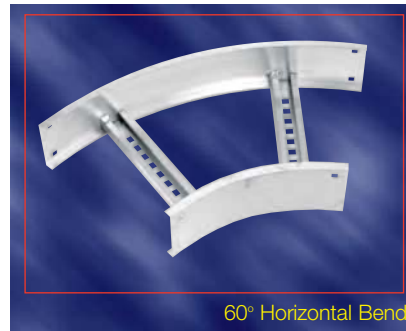
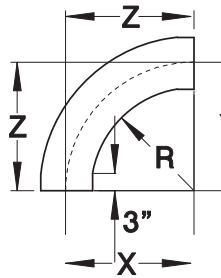


Aluminum Cable Tray

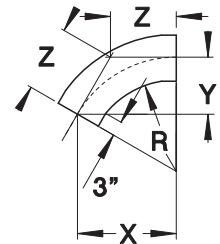
U-Style Fittings Horizontal Bends 90° / 60°



90° Horizontal Bend



60° Horizontal Bend



Part Numbering System

AUF-4-24-L-HB60-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Angle

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 90°, 60°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4" - 7"

Technical Specifications

90° Horizontal Bend — U-Style

Nominal Radius R	Width	Catalogue Number	Dimensions		
			X	Y	Z
12	6	AUF(†)-06-(*)-HB90-12	15	15	15
	9	AUF(†)-09-(*)-HB90-12	16-1/2	16-1/2	16-1/2
	12	AUF(†)-12-(*)-HB90-12	18	18	18
	18	AUF(†)-18-(*)-HB90-12	21	21	21
	24	AUF(†)-24-(*)-HB90-12	24	24	24
	30	AUF(†)-30-(*)-HB90-12	27	27	27
24	36	AUF(†)-36-(*)-HB90-12	30	30	30
	42	AUF(†)-42-(*)-HB90-12	33	33	33
	6	AUF(†)-06-(*)-HB90-24	27	27	17
	9	AUF(†)-09-(*)-HB90-24	28-1/2	28-1/2	28-1/2
	12	AUF(†)-12-(*)-HB90-24	30	30	30
	18	AUF(†)-18-(*)-HB90-24	33	33	33
36	24	AUF(†)-24-(*)-HB90-24	36	36	36
	30	AUF(†)-30-(*)-HB90-24	39	39	39
	36	AUF(†)-36-(*)-HB90-24	42	42	42
	42	AUF(†)-42-(*)-HB90-24	45	45	45
	6	AUF(†)-06-(*)-HB90-36	39	39	39
	9	AUF(†)-09-(*)-HB90-36	40-1/2	40-1/2	40-1/2
48	12	AUF(†)-12-(*)-HB90-36	42	42	42
	18	AUF(†)-18-(*)-HB90-36	45	45	45
	24	AUF(†)-24-(*)-HB90-36	48	48	48
	30	AUF(†)-30-(*)-HB90-36	51	51	51
	36	AUF(†)-36-(*)-HB90-36	54	54	54
	42	AUF(†)-42-(*)-HB90-36	57	57	57
	6	AUF(†)-06-(*)-HB90-48	51	51	51
	9	AUF(†)-09-(*)-HB90-48	52-1/2	52-1/2	52-1/2
	12	AUF(†)-12-(*)-HB90-48	54	54	54
	18	AUF(†)-18-(*)-HB90-48	57	57	57
	24	AUF(†)-24-(*)-HB90-48	60	60	60
	30	AUF(†)-30-(*)-HB90-48	63	63	63
	36	AUF(†)-36-(*)-HB90-48	66	66	66
	42	AUF(†)-42-(*)-HB90-48	69	69	69

60° Horizontal Bend — U-Style

Nominal Radius R	Width	Catalogue Number	Dimensions		
			X	Y	Z
12	6	AUF(†)-06-(*)-HB60-12	14-7/8	8-5/8	9-15/16
	9	AUF(†)-09-(*)-HB60-12	16-3/16	9-3/8	10-13/16
	12	AUF(†)-12-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	18	AUF(†)-18-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	24	AUF(†)-24-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	30	AUF(†)-30-(*)-HB60-12	25-5/16	14-5/8	16-7/8
24	36	AUF(†)-36-(*)-HB60-12	27-7/8	16-1/8	18-9/16
	42	AUF(†)-42-(*)-HB60-12	30-1/2	17-5/8	20-5/16
	6	AUF(†)-06-(*)-HB60-24	25-5/16	14-5/8	16-7/8
	9	AUF(†)-09-(*)-HB60-24	26-9/16	15-3/8	17-3/4
	12	AUF(†)-12-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	18	AUF(†)-18-(*)-HB60-24	30-1/2	17-5/8	20-5/16
36	24	AUF(†)-24-(*)-HB60-24	33-1/16	19-1/8	22-1/16
	30	AUF(†)-30-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	36	AUF(†)-36-(*)-HB60-24	38-1/4	22-1/8	25-1/2
	42	AUF(†)-42-(*)-HB60-24	40-7/8	23-5/8	27-1/4
	6	AUF(†)-06-(*)-HB60-36	35-11/16	20-5/8	23-13/16
	9	AUF(†)-09-(*)-HB60-36	37	21-3/8	24-5/8
48	12	AUF(†)-12-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	18	AUF(†)-18-(*)-HB60-36	40-7/8	23-5/8	27-2/8
	24	AUF(†)-24-(*)-HB60-36	43-1/2	25-1/8	29
	30	AUF(†)-30-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	36	AUF(†)-36-(*)-HB60-36	48-11/16	28-1/8	32-7/16
	42	AUF(†)-42-(*)-HB60-36	51-1/4	29-5/8	34-3/16
	6	AUF(†)-06-(*)-HB60-48	46-1/16	26-5/8	30-11/16
	9	AUF(†)-09-(*)-HB60-48	47-3/8	27-3/8	31-9/16
	12	AUF(†)-12-(*)-HB60-48	48-11/16	28-1/8	32-7/16
	18	AUF(†)-18-(*)-HB60-48	51-4/16	29-5/8	34-3/16
	24	AUF(†)-24-(*)-HB60-48	53-7/8	31-1/8	35-15/16
	30	AUF(†)-30-(*)-HB60-48	56-7/16	32-5/8	37-5/8
	36	AUF(†)-36-(*)-HB60-48	59-1/16	34-1/8	39-3/8
	42	AUF(†)-42-(*)-HB60-48	61-11/16	35-5/8	41-1/8

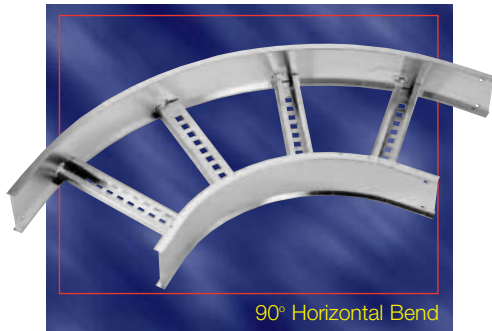
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

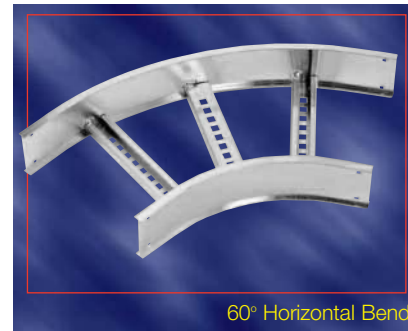
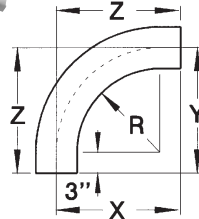
Thomas & Betts

H-Style Fittings Horizontal Bends 90° / 60°

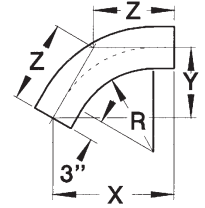
Aluminum Cable Tray



90° Horizontal Bend



60° Horizontal Bend



Part Numbering System

AHF-4-24-L-HB60-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Angle

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 90°, 60°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

Aluminum
Fittings

Technical Specifications

90° Horizontal Bend — H-Style

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	AHF(t)-06-(*)-HB90-12	18	18	18
	9	AHF(t)-09-(*)-HB90-12	19-1/2	19-1/2	19-1/2
	12	AHF(t)-12-(*)-HB90-12	21	21	21
	18	AHF(t)-18-(*)-HB90-12	24	24	24
	24	AHF(t)-24-(*)-HB90-12	27	27	27
	30	AHF(t)-30-(*)-HB90-12	30	30	30
24	36	AHF(t)-36-(*)-HB90-12	33	33	33
	42	AHF(t)-42-(*)-HB90-12	36	36	36
	6	AHF(t)-06-(*)-HB90-24	30	30	30
	9	AHF(t)-09-(*)-HB90-24	31-1/2	31-1/2	31-1/2
	12	AHF(t)-12-(*)-HB90-24	33	33	33
	18	AHF(t)-18-(*)-HB90-24	36	36	36
36	24	AHF(t)-24-(*)-HB90-24	39	39	39
	30	AHF(t)-30-(*)-HB90-24	42	42	42
	36	AHF(t)-36-(*)-HB90-24	45	45	45
	42	AHF(t)-42-(*)-HB90-24	48	48	48
	6	AHF(t)-06-(*)-HB90-36	42	42	42
	9	AHF(t)-09-(*)-HB90-36	43-1/2	43-1/2	43-1/2
48	12	AHF(t)-12-(*)-HB90-36	45	45	45
	18	AHF(t)-18-(*)-HB90-36	48	48	48
	24	AHF(t)-24-(*)-HB90-36	51	51	51
	30	AHF(t)-30-(*)-HB90-36	54	54	54
	36	AHF(t)-36-(*)-HB90-36	57	57	57
	42	AHF(t)-42-(*)-HB90-36	60	60	60
	6	AHF(t)-06-(*)-HB90-48	54	54	54
	9	AHF(t)-09-(*)-HB90-48	55-1/2	55-1/2	55-1/2
	12	AHF(t)-12-(*)-HB90-48	57	57	57
	18	AHF(t)-18-(*)-HB90-48	60	60	60
	24	AHF(t)-24-(*)-HB90-48	63	63	63
	30	AHF(t)-30-(*)-HB90-48	66	66	66
	36	AHF(t)-36-(*)-HB90-48	69	69	69
	42	AHF(t)-42-(*)-HB90-48	72	72	72

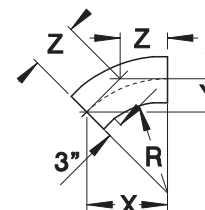
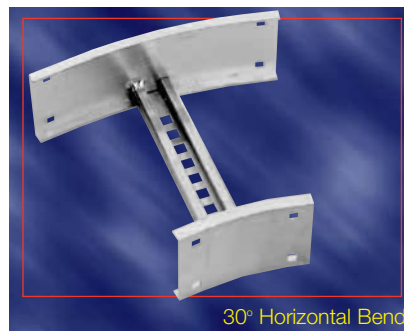
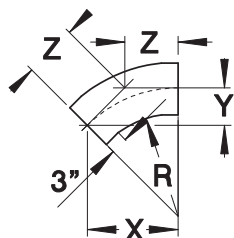
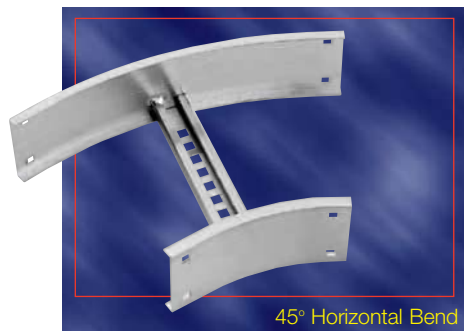
60° Horizontal Bend — H-Style

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	AHF(t)-06-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	9	AHF(t)-09-(*)-HB60-12	18-13/16	10-7/8	12-1/2
	12	AHF(t)-12-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	18	AHF(t)-18-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	24	AHF(t)-24-(*)-HB60-12	25-5/16	14-5/8	16-7/8
	30	AHF(t)-30-(*)-HB60-12	27-7/8	16-1/8	18-9/16
24	36	AHF(t)-36-(*)-HB60-12	30-1/2	17-5/8	20-5/16
	42	AHF(t)-42-(*)-HB60-12	33-1/16	19-1/8	22-1/16
	6	AHF(t)-06-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	9	AHF(t)-09-(*)-HB60-24	29-3/16	16-7/8	19-7/16
	12	AHF(t)-12-(*)-HB60-24	30-1/2	17-5/8	20-5/16
	18	AHF(t)-18-(*)-HB60-24	33-1/16	19-1/8	22-1/16
36	24	AHF(t)-24-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	30	AHF(t)-30-(*)-HB60-24	38-1/4	22-1/8	25-1/2
	36	AHF(t)-36-(*)-HB60-24	40-7/8	23-5/8	27-1/4
	42	AHF(t)-42-(*)-HB60-24	43-1/2	25-1/8	29
	6	AHF(t)-06-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	9	AHF(t)-09-(*)-HB60-36	39-9/16	22-7/8	26-3/8
48	12	AHF(t)-12-(*)-HB60-36	40-7/8	23-5/8	27-1/4
	18	AHF(t)-18-(*)-HB60-36	43-1/2	25-1/8	29
	24	AHF(t)-24-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	30	AHF(t)-30-(*)-HB60-36	48-11/16	28-1/8	32-7/16
	36	AHF(t)-36-(*)-HB60-36	51-1/4	29-5/8	34-3/16
	42	AHF(t)-42-(*)-HB60-36	53-7/8	31-1/8	35-15/16
	6	AHF(t)-06-(*)-HB60-48	48-11/16	28-1/8	32-7/16
	9	AHF(t)-09-(*)-HB60-48	49-15/16	28-7/8	33-5/16
	12	AHF(t)-12-(*)-HB60-48	51-1/4	29-5/8	34-3/16
	18	AHF(t)-18-(*)-HB60-48	53-7/8	31-1/8	35-15/16
	24	AHF(t)-24-(*)-HB60-48	56-7/16	32-5/8	37-5/8
	30	AHF(t)-30-(*)-HB60-48	59-1/16	34-1/8	39-3/8
	36	AHF(t)-36-(*)-HB60-48	61-11/16	35-5/8	41-1/8
	42	AHF(t)-42-(*)-HB60-48	64-1/4	37-1/8	42-13/16

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Horizontal Bends 45° / 30°



Part Numbering System

AUF-4-24-L-HB45-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Angle

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 45°, 30°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

Technical Specifications

45° Horizontal Bend — U-Style

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	AUF(†)-06-(*)-(+)HB45-12	13-5/8	5-5/8	8
	9	AUF(†)-09-(*)-(+)HB45-12	14-11/16	6-1/16	8-9/16
	12	AUF(†)-12-(*)-(+)HB45-12	15-3/4	6-12	9-3/16
	18	AUF(†)-18-(*)-(+)HB45-12	17-7/8	7-3/8	10-7/16
	24	AUF(†)-24-(*)-(+)HB45-12	20	8-1/4	11-11/16
	30	AUF(†)-30-(*)-(+)HB45-12	22-1/16	9-1/8	12-15/16
24	36	AUF(†)-36-(*)-(+)HB45-12	24-3/16	10	14-3/16
	42	AUF(†)-42-(*)-(+)HB45-12	26-5/16	10-15/16	15-7/16
	6	AUF(†)-06-(*)-(+)HB45-24	22-1/16	9-1/8	12-15/16
	9	AUF(†)-09-(*)-(+)HB45-24	23-1/8	9-9/16	13-9/16
	12	AUF(†)-12-(*)-(+)HB45-24	24-3/16	10	14-3/16
	18	AUF(†)-18-(*)-(+)HB45-24	26-5/16	10-15/16	15-7/16
36	24	AUF(†)-24-(*)-(+)HB45-24	28-7/16	11-13/16	16-11/16
	30	AUF(†)-30-(*)-(+)HB45-24	30-9/16	12-11/16	17-15/16
	36	AUF(†)-36-(*)-(+)HB45-24	32-11/16	13-9/16	19-1/8
	42	AUF(†)-42-(*)-(+)HB45-24	34-13/16	14-7/16	20-3/8
	6	AUF(†)-06-(*)-(+)HB45-36	30-9/16	12-11/16	17-15/16
	9	AUF(†)-09-(*)-(+)HB45-36	31-5/8	13-1/8	18-9/16
48	12	AUF(†)-12-(*)-(+)HB45-36	32-11/16	13-9/16	19-1/8
	18	AUF(†)-18-(*)-(+)HB45-36	34-13/16	14-7/16	20-3/8
	24	AUF(†)-24-(*)-(+)HB45-36	36-15/16	15-5/16	21-5/8
	30	AUF(†)-30-(*)-(+)HB45-36	39-1/16	16-3/16	22-7/8
	36	AUF(†)-36-(*)-(+)HB45-36	41-3/16	17-1/16	24-1/8
	42	AUF(†)-42-(*)-(+)HB45-36	43-5/16	17-15/16	25-3/8
48	6	AUF(†)-06-(*)-(+)HB45-48	39-1/16	16-3/16	22-7/8
	9	AUF(†)-09-(*)-(+)HB45-48	40-1/8	16-3/8	23-1/2
	12	AUF(†)-12-(*)-(+)HB45-48	41-3/16	17-1/16	24-1/8
	18	AUF(†)-18-(*)-(+)HB45-48	43-5/16	17-15/16	25-3/8
	24	AUF(†)-24-(*)-(+)HB45-48	45-7/16	18-13/16	26-5/8
	30	AUF(†)-30-(*)-(+)HB45-48	47-9/16	19-11/16	27-7/8
48	36	AUF(†)-36-(*)-(+)HB45-48	49-11/16	20-9/16	29-1/8
	42	AUF(†)-42-(*)-(+)HB45-48	51-13/16	21-7/16	30-5/16

30° Horizontal Bend — U-Style

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	AUF(†)-06-(*)-(+)HB30-12	11-5/8	3-18	6-3/16
	9	AUF(†)-09-(*)-(+)HB30-12	12-3/8	3-5/16	6-5/8
	12	AUF(†)-12-(*)-(+)HB30-12	13-1/2	3-1/2	7
	18	AUF(†)-18-(*)-(+)HB30-12	14-5/8	3-15/16	7-13/16
	24	AUF(†)-24-(*)-(+)HB30-12	16-1/8	4-5/16	8-5/8
	30	AUF(†)-30-(*)-(+)HB30-12	17-5/8	4-11/16	9-7/16
24	36	AUF(†)-36-(*)-(+)HB30-12	19-1/8	5-1/8	10-1/4
	42	AUF(†)-42-(*)-(+)HB30-12	20-5/8	5-1/2	11-1/16
	6	AUF(†)-06-(*)-(+)HB30-24	17-5/8	4-11/16	9-7/16
	9	AUF(†)-09-(*)-(+)HB30-24	18-3/8	4-15/16	9-13/16
	12	AUF(†)-12-(*)-(+)HB30-24	19-1/8	5-2/16	10-4/16
	18	AUF(†)-18-(*)-(+)HB30-24	20-5/8	5-8/16	11-1/16
36	24	AUF(†)-24-(*)-(+)HB30-24	22-1/8	5-15/16	11-13/16
	30	AUF(†)-30-(*)-(+)HB30-24	23-5/8	6-5/16	12-10/16
	36	AUF(†)-36-(*)-(+)HB30-24	25-1/8	6-12/16	13-7/16
	42	AUF(†)-42-(*)-(+)HB30-24	26-5/8	7-2/16	14-4/16
	6	AUF(†)-06-(*)-(+)HB30-36	23-5/8	6-5/16	12-5/8
	9	AUF(†)-09-(*)-(+)HB30-36	24-3/8	6-1/2	13-1/16
48	12	AUF(†)-12-(*)-(+)HB30-36	25-1/8	6-3/4	13-7/16
	18	AUF(†)-18-(*)-(+)HB30-36	26-5/8	7-1/4	14-1/4
	24	AUF(†)-24-(*)-(+)HB30-36	28-1/8	7-1/2	15-1/16
	30	AUF(†)-30-(*)-(+)HB30-36	29-5/8	7-15/16	15-7/8
	36	AUF(†)-36-(*)-(+)HB30-36	31-1/8	8-5/16	16-11/16
	42	AUF(†)-42-(*)-(+)HB30-36	32-5/8	8-3/4	17-1/2
48	6	AUF(†)-06-(*)-(+)HB30-48	29-5/8	7-15/16	15-7/8
	9	AUF(†)-09-(*)-(+)HB30-48	30-3/8	8-1/8	16-1/4
	12	AUF(†)-12-(*)-(+)HB30-48	31-1/8	8-5/16	16-11/16
	18	AUF(†)-18-(*)-(+)HB30-48	32-5/8	8-3/4	17-1/2
	24	AUF(†)-24-(*)-(+)HB30-48	34-1/8	9-1/8	18-1/4
	30	AUF(†)-30-(*)-(+)HB30-48	35-5/8	9-9/16	19-1/16
48	36	AUF(†)-36-(*)-(+)HB30-48	37-1/8	9-15/16	19-7/8
	42	AUF(†)-42-(*)-(+)HB30-48	38-5/8	10-5/16	20-11/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

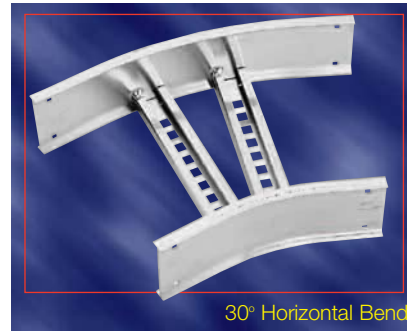
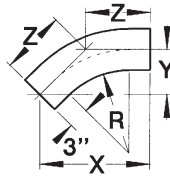
Thomas & Betts

H-Style Fittings Horizontal Bends 45° / 30°

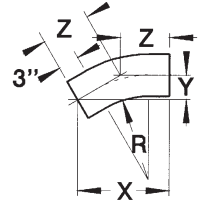
Aluminum Cable Tray



45° Horizontal Bend



30° Horizontal Bend



Part Numbering System

AHF-4-24-L-HB45-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Angle

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 45°, 30°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

Technical Specifications

45° Horizontal Bend — H-Style

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	AHF(t)-06-(*)-HB45-12	15-3/4	6-1/2	9-3/16
	9	AHF(t)-09-(*)-HB45-12	16-13/16	6-15/16	9-13/16
	12	AHF(t)-12-(*)-HB45-12	17-7/8	7-3/8	10-7/16
	18	AHF(t)-18-(*)-HB45-12	20	8-1/4	11-11/16
	24	AHF(t)-24-(*)-HB45-12	22-1/16	9-1/8	12-15/16
	30	AHF(t)-30-(*)-HB45-12	24-3/16	10	14-3/16
24	36	AHF(t)-36-(*)-HB45-12	26-5/16	10-15/16	15-7/16
	42	AHF(t)-42-(*)-HB45-12	28-7/16	11-13/16	16-11/16
	6	AHF(t)-06-(*)-HB45-24	24-3/16	10	14-3/16
	9	AHF(t)-09-(*)-HB45-24	25-1/4	10-1/2	14-13/16
	12	AHF(t)-12-(*)-HB45-24	26-5/16	10-15/16	15-7/16
	18	AHF(t)-18-(*)-HB45-24	28-7/16	11-13/16	16-11/16
36	24	AHF(t)-24-(*)-HB45-24	30-9/16	12-11/16	17-15/16
	30	AHF(t)-30-(*)-HB45-24	32-11/16	13-9/16	19-1/8
	36	AHF(t)-36-(*)-HB45-24	34-13/16	14-7/8	20-3/8
	42	AHF(t)-42-(*)-HB45-24	36-15/16	15-5/16	21-5/8
	6	AHF(t)-06-(*)-HB45-36	32-11/16	13-9/16	19-1/8
	9	AHF(t)-09-(*)-HB45-36	33-3/4	14	19-3/4
48	12	AHF(t)-12-(*)-HB45-36	34-13/16	14-7/16	20-3/8
	18	AHF(t)-18-(*)-HB45-36	36-15/16	15-5/16	21-5/8
	24	AHF(t)-24-(*)-HB45-36	39-1/16	16-3/16	22-7/8
	30	AHF(t)-30-(*)-HB45-36	41-3/16	17-1/16	24-1/8
	36	AHF(t)-36-(*)-HB45-36	43-5/16	17-15/16	25-3/8
	42	AHF(t)-42-(*)-HB45-36	45-7/16	18-13/16	26-5/8
	6	AHF(t)-06-(*)-HB45-48	41-3/16	17-1/16	24-1/8
	9	AHF(t)-09-(*)-HB45-48	42-1/4	17-1/2	24-3/4
	12	AHF(t)-12-(*)-HB45-48	43-5/16	17-15/16	25-3/8
	18	AHF(t)-18-(*)-HB45-48	45-7/16	18-13/16	26-5/8
	24	AHF(t)-24-(*)-HB45-48	47-9/16	19-11/16	27-3/4
	30	AHF(t)-30-(*)-HB45-48	49-11/16	20-9/16	29-1/8
	36	AHF(t)-36-(*)-HB45-48	51-13/16	21-7/16	30-5/16
	42	AHF(t)-42-(*)-HB45-48	53-15/16	22-5/16	31-9/16

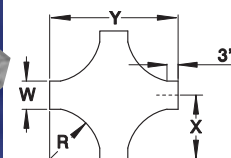
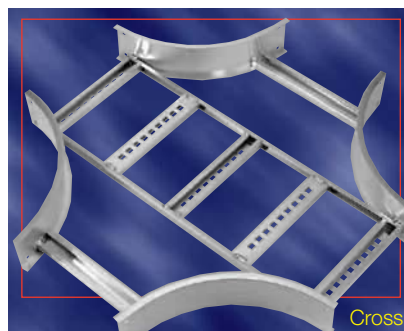
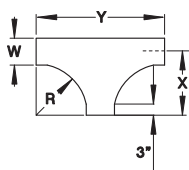
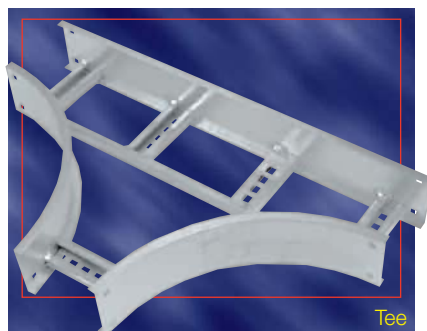
30° Horizontal Bend — H-Style

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	AHF(t)-06-(*)-HB30-12	13-1/8	3-1/2	7
	9	AHF(t)-09-(*)-HB30-12	13-7/8	3-11/16	7-7/16
	12	AHF(t)-12-(*)-HB30-12	14-5/8	3-15/16	7-13/16
	18	AHF(t)-18-(*)-HB30-12	16-1/8	4-5/16	8-5/8
	24	AHF(t)-24-(*)-HB30-12	17-5/8	4-11/16	9-7/8
	30	AHF(t)-30-(*)-HB30-12	19-1/8	5-1/8	10-1/4
24	36	AHF(t)-36-(*)-HB30-12	20-5/8	5-1/2	11-1/16
	42	AHF(t)-42-(*)-HB30-12	22-1/8	5-15/16	11-13/16
	6	AHF(t)-06-(*)-HB30-24	19-1/8	5-1/8	10-1/4
	9	AHF(t)-09-(*)-HB30-24	19-7/8	5-5/16	10-5/8
	12	AHF(t)-12-(*)-HB30-24	20-5/8	5-1/2	11-1/16
	18	AHF(t)-18-(*)-HB30-24	22-1/8	5-5/16	11-13/16
36	24	AHF(t)-24-(*)-HB30-24	23-5/8	6-5/16	12-5/8
	30	AHF(t)-30-(*)-HB30-24	25-1/8	6-3/4	13-7/16
	36	AHF(t)-36-(*)-HB30-24	26-5/8	7-1/8	14-1/4
	42	AHF(t)-42-(*)-HB30-24	28-1/8	7-1/2	15-1/16
	6	AHF(t)-06-(*)-HB30-36	25-1/8	6-3/4	13-7/16
	9	AHF(t)-09-(*)-HB30-36	25-7/8	6-15/16	13-7/8
48	12	AHF(t)-12-(*)-HB30-36	26-5/8	7-1/8	14-1/4
	18	AHF(t)-18-(*)-HB30-36	28-1/8	7-1/2	15-1/16
	24	AHF(t)-24-(*)-HB30-36	29-5/8	7-15/16	15-7/8
	30	AHF(t)-30-(*)-HB30-36	31-1/8	8-5/16	16-11/16
	36	AHF(t)-36-(*)-HB30-36	32-5/8	8-3/4	17-1/2
	42	AHF(t)-42-(*)-HB30-36	34-1/8	9-1/8	18-1/4
	6	AHF(t)-06-(*)-HB30-48	31-1/8	8-5/16	16-11/16
	9	AHF(t)-09-(*)-HB30-48	31-7/8	8-9/16	17-1/16
	12	AHF(t)-12-(*)-HB30-48	32-5/8	8-3/4	17-1/2
	18	AHF(t)-18-(*)-HB30-48	34-1/8	9-1/8	18-1/4
	24	AHF(t)-24-(*)-HB30-48	35-5/8	9-9/16	19-1/16
	30	AHF(t)-30-(*)-HB30-48	37-1/8	9-15/16	19-7/8
	36	AHF(t)-36-(*)-HB30-48	38-5/8	10-5/16	20-11/16
	42	AHF(t)-42-(*)-HB30-48	40-1/8	10-3/4	21-1/2

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Horizontal Tee, Cross



Part Numbering System

AUF-5-06-L-HT-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

Technical Specifications

Horizontal TEE – U-Style

Nominal Radius		Dimensions		
R	Width	Catalogue Number	X	Y
12	6	AUF(†)-06-(*)-HT12	15	30
	9	AUF(†)-09-(*)-HT12	16-1/2	33
	12	AUF(†)-12-(*)-HT12	18	36
	18	AUF(†)-18-(*)-HT12	21	42
	24	AUF(†)-24-(*)-HT12	24	48
	30	AUF(†)-30-(*)-HT12	27	54
	36	AUF(†)-36-(*)-HT12	30	60
24	42	AUF(†)-42-(*)-HT12	33	66
	6	AUF(†)-06-(*)-HT24	27	54
	9	AUF(†)-09-(*)-HT24	28-1/2	57
	12	AUF(†)-12-(*)-HT24	30	60
	18	AUF(†)-18-(*)-HT24	33	66
	24	AUF(†)-24-(*)-HT24	36	72
	30	AUF(†)-30-(*)-HT24	39	78
36	36	AUF(†)-36-(*)-HT24	42	84
	42	AUF(†)-42-(*)-HT24	45	90
	6	AUF(†)-06-(*)-HT36	39	78
	9	AUF(†)-09-(*)-HT36	40-1/2	81
	12	AUF(†)-12-(*)-HT36	42	84
	18	AUF(†)-18-(*)-HT36	45	90
	24	AUF(†)-24-(*)-HT36	48	96
48	30	AUF(†)-30-(*)-HT36	51	102
	36	AUF(†)-36-(*)-HT36	54	108
	42	AUF(†)-42-(*)-HT36	57	114
	6	AUF(†)-06-(*)-HT48	51	102
	9	AUF(†)-09-(*)-HT48	52-1/2	105
	12	AUF(†)-12-(*)-HT48	54	108
	18	AUF(†)-18-(*)-HT48	57	114
48	24	AUF(†)-24-(*)-HT48	60	120
	30	AUF(†)-30-(*)-HT48	63	126
	36	AUF(†)-36-(*)-HT48	66	132
	42	AUF(†)-42-(*)-HT48	69	138

Horizontal CROSS – U-Style

Nominal Radius		Dimensions		
R	Width	Catalogue Number	X	Y
12	6	AUF(†)-06-(*)-HX12	15	30
	9	AUF(†)-09-(*)-HX12	16-1/2	33
	12	AUF(†)-12-(*)-HX12	18	36
	18	AUF(†)-18-(*)-HX12	21	42
	24	AUF(†)-24-(*)-HX12	24	48
	30	AUF(†)-30-(*)-HX12	27	54
	36	AUF(†)-36-(*)-HX12	30	60
24	42	AUF(†)-42-(*)-HX12	33	66
	6	AUF(†)-06-(*)-HX24	27	54
	9	AUF(†)-09-(*)-HX24	28-1/2	57
	12	AUF(†)-12-(*)-HX24	30	60
	18	AUF(†)-18-(*)-HX24	33	66
	24	AUF(†)-24-(*)-HX24	36	72
	30	AUF(†)-30-(*)-HX24	39	78
36	36	AUF(†)-36-(*)-HX24	42	84
	42	AUF(†)-42-(*)-HX24	45	90
	6	AUF(†)-06-(*)-HX36	39	78
	9	AUF(†)-09-(*)-HX36	40-1/2	81
	12	AUF(†)-12-(*)-HX36	42	84
	18	AUF(†)-18-(*)-HX36	45	90
	24	AUF(†)-24-(*)-HX36	48	96
48	30	AUF(†)-30-(*)-HX36	51	102
	36	AUF(†)-36-(*)-HX36	54	108
	42	AUF(†)-42-(*)-HX36	57	114
	6	AUF(†)-06-(*)-HX48	51	102
	9	AUF(†)-09-(*)-HX48	52-1/2	105
	12	AUF(†)-12-(*)-HX48	54	108
	18	AUF(†)-18-(*)-HX48	57	114
48	24	AUF(†)-24-(*)-HX48	60	120
	30	AUF(†)-30-(*)-HX48	63	126
	36	AUF(†)-36-(*)-HX48	66	132
	42	AUF(†)-42-(*)-HX48	69	138

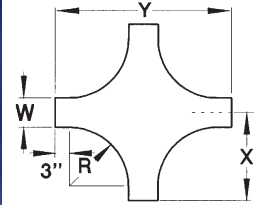
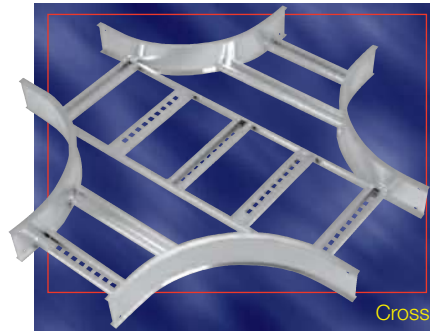
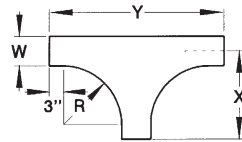
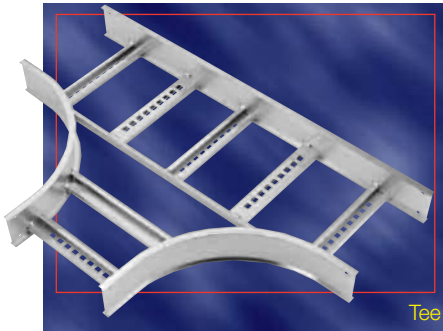
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

H-Style Fittings Horizontal Tee, Cross

Aluminum Cable Tray



Part Numbering System

AHF-5-06-L-HT-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

Aluminum
Fittings

Technical Specifications

Horizontal TEE – H-Style

Nominal Radius			Dimensions	
R	Width	Catalogue Number	X	Y
12	6	AHF(t)-06-(*)-HT12	18	36
	9	AHF(t)-09-(*)-HT12	19-1/2	39
	12	AHF(t)-12-(*)-HT12	21	42
	18	AHF(t)-18-(*)-HT12	24	48
	24	AHF(t)-24-(*)-HT12	27	54
	30	AHF(t)-30-(*)-HT12	30	60
	36	AHF(t)-36-(*)-HT12	33	66
24	42	AHF(t)-42-(*)-HT12	36	72
	6	AHF(t)-06-(*)-HT24	30	60
	9	AHF(t)-09-(*)-HT24	31-1/2	63
	12	AHF(t)-12-(*)-HT24	33	66
	18	AHF(t)-18-(*)-HT24	36	72
	24	AHF(t)-24-(*)-HT24	39	78
	30	AHF(t)-30-(*)-HT24	42	84
36	36	AHF(t)-36-(*)-HT24	45	90
	42	AHF(t)-42-(*)-HT24	48	96
	6	AHF(t)-06-(*)-HT36	42	84
	9	AHF(t)-09-(*)-HT36	43-1/2	87
	12	AHF(t)-12-(*)-HT36	45	90
	18	AHF(t)-18-(*)-HT36	48	96
	24	AHF(t)-24-(*)-HT36	51	102
48	30	AHF(t)-30-(*)-HT36	54	108
	36	AHF(t)-36-(*)-HT36	57	114
	42	AHF(t)-42-(*)-HT36	60	120
	6	AHF(t)-06-(*)-HT48	54	108
	9	AHF(t)-09-(*)-HT48	55-1/2	111
	12	AHF(t)-12-(*)-HT48	57	114
	18	AHF(t)-18-(*)-HT48	60	120
	24	AHF(t)-24-(*)-HT48	63	126
	30	AHF(t)-30-(*)-HT48	66	132
	36	AHF(t)-36-(*)-HT48	69	138
	42	AHF(t)-42-(*)-HT48	72	144

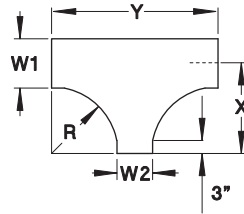
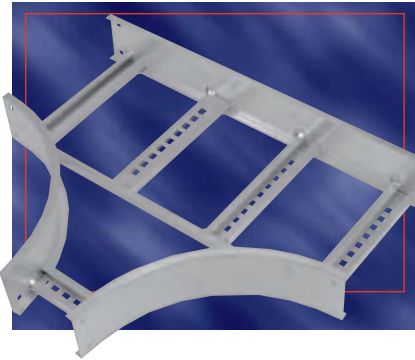
Horizontal CROSS – H-Style

Nominal Radius			Dimensions	
R	Width	Catalogue Number	X	Y
12	6	AHF(t)-06-(*)-HX12	18	36
	9	AHF(t)-09-(*)-HX12	19-1/2	39
	12	AHF(t)-12-(*)-HX12	21	42
	18	AHF(t)-18-(*)-HX12	24	48
	24	AHF(t)-24-(*)-HX12	27	54
	30	AHF(t)-30-(*)-HX12	30	60
	36	AHF(t)-36-(*)-HX12	33	66
24	42	AHF(t)-42-(*)-HX12	36	72
	6	AHF(t)-06-(*)-HX24	30	60
	9	AHF(t)-09-(*)-HX24	31-1/2	63
	12	AHF(t)-12-(*)-HX24	33	66
	18	AHF(t)-18-(*)-HX24	36	72
	24	AHF(t)-24-(*)-HX24	39	78
	30	AHF(t)-30-(*)-HX24	42	84
36	36	AHF(t)-36-(*)-HX24	45	90
	42	AHF(t)-42-(*)-HX24	48	96
	6	AHF(t)-06-(*)-HX36	42	84
	9	AHF(t)-09-(*)-HX36	43-1/2	87
	12	AHF(t)-12-(*)-HX36	45	90
	18	AHF(t)-18-(*)-HX36	48	96
	24	AHF(t)-24-(*)-HX36	51	102
48	30	AHF(t)-30-(*)-HX36	54	108
	36	AHF(t)-36-(*)-HX36	57	114
	42	AHF(t)-42-(*)-HX36	60	120
	6	AHF(t)-06-(*)-HX48	54	108
	9	AHF(t)-09-(*)-HX48	55-1/2	111
	12	AHF(t)-12-(*)-HX48	57	114
	18	AHF(t)-18-(*)-HX48	60	120
	24	AHF(t)-24-(*)-HX48	63	126
	30	AHF(t)-30-(*)-HX48	66	132
	36	AHF(t)-36-(*)-HX48	69	138
	42	AHF(t)-42-(*)-HX48	72	144

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Horizontal Reducing Tee



Part Numbering System

AUF-7-42-36-L-RT12

Fitting Material and Siderail Width 1 Bottom Fitting Style Type Nominal Radius
Siderail Depth Width 2

Selection Guide

Tray Widths W1: **42, 36, 30, 24, 18, 12, 9**

Tray Widths W2: **36, 30, 24, 18, 12, 9, 6**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Technical Specifications

Horizontal REDUCING TEE – U-Style

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
42	36	AUF(+)-4236-(*)-RT(+)	33	60	45	84	57	108	69	132
	30	AUF(+)-4230-(*)-RT(+)	33	54	45	78	57	102	69	126
	24	AUF(+)-4224-(*)-RT(+)	33	48	45	72	57	96	69	120
	18	AUF(+)-4218-(*)-RT(+)	33	42	45	66	57	90	69	114
	12	AUF(+)-4212-(*)-RT(+)	33	36	45	60	57	84	69	108
	9	AUF(+)-4209-(*)-RT(+)	33	33	45	57	57	81	69	105
	6	AUF(+)-4206-(*)-RT(+)	33	30	45	54	57	78	69	102
36	30	AUF(+)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	AUF(+)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
	18	AUF(+)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	AUF(+)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
	9	AUF(+)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
	6	AUF(+)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	AUF(+)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	AUF(+)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
	12	AUF(+)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
	9	AUF(+)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
	6	AUF(+)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	AUF(+)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
	12	AUF(+)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
	9	AUF(+)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
	6	AUF(+)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	AUF(+)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
	9	AUF(+)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
	6	AUF(+)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	AUF(+)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
	6	AUF(+)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	AUF(+)-0906-(*)-RT(+)	16-1/2	30	28-1/2	54	40-1/2	78	52-1/2	102

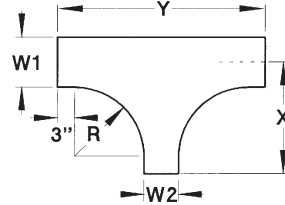
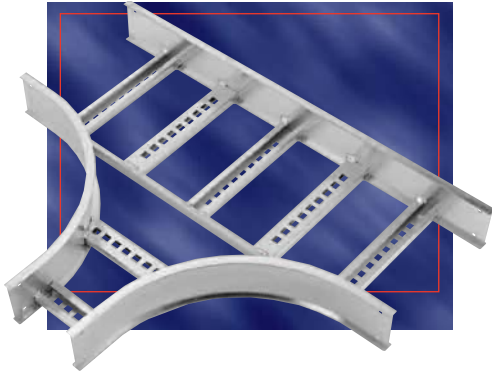
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas&Betts

H-Style Fittings Horizontal Reducing Tee

Aluminum Cable Tray



Part Numbering System

AHF-7-42-36-L-RT12

Fitting Material and Siderail Width 1 Bottom Style Fitting Type Nominal Radius
Siderail Depth Width 2

Selection Guide

Tray Widths W1: 42, 36, 30, 24, 18, 12, 9

Tray Widths W2: 36, 30, 24, 18, 12, 9, 6

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Technical Specifications

Aluminum
Fittings

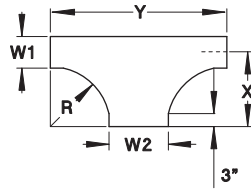
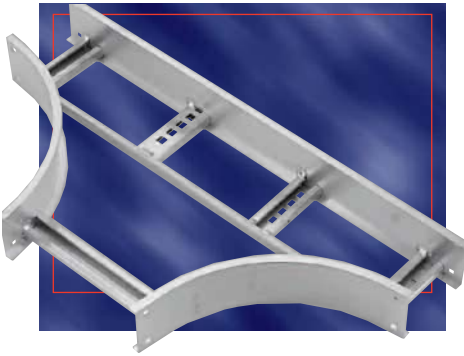
Horizontal REDUCING TEE – H-Style

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
42	36	AHF(+)-4236-(*)-RT(+)	36	66	48	90	60	114	72	138
	30	AHF(+)-4230-(*)-RT(+)	36	60	48	84	60	108	72	132
	24	AHF(+)-4224-(*)-RT(+)	36	54	48	78	60	102	72	126
	18	AHF(+)-4218-(*)-RT(+)	36	48	48	72	60	96	72	120
	12	AHF(+)-4212-(*)-RT(+)	36	42	48	66	60	90	72	114
	9	AHF(+)-4209-(*)-RT(+)	36	39	48	63	60	87	72	111
	6	AHF(+)-4206-(*)-RT(+)	36	36	48	60	60	84	72	108
36	30	AHF(+)-3630-(*)-RT(+)	33	60	45	84	57	108	69	132
	24	AHF(+)-3624-(*)-RT(+)	33	54	45	78	57	102	69	126
	18	AHF(+)-3618-(*)-RT(+)	33	48	45	72	57	96	69	120
	12	AHF(+)-3612-(*)-RT(+)	33	42	45	66	57	90	69	114
	9	AHF(+)-3609-(*)-RT(+)	33	39	45	63	57	87	69	111
	6	AHF(+)-3606-(*)-RT(+)	33	36	45	60	57	84	69	108
30	24	AHF(+)-3024-(*)-RT(+)	30	54	42	78	54	102	66	126
	18	AHF(+)-3018-(*)-RT(+)	30	48	42	72	54	96	66	120
	12	AHF(+)-3012-(*)-RT(+)	30	42	42	66	54	90	66	114
	9	AHF(+)-3009-(*)-RT(+)	30	39	42	63	54	87	66	111
	6	AHF(+)-3006-(*)-RT(+)	30	36	42	60	54	84	66	108
24	18	AHF(+)-2418-(*)-RT(+)	27	48	39	72	51	96	63	120
	12	AHF(+)-2412-(*)-RT(+)	27	42	39	66	51	90	63	114
	9	AHF(+)-2409-(*)-RT(+)	27	39	39	63	51	87	63	111
	6	AHF(+)-2406-(*)-RT(+)	27	36	39	60	51	84	63	108
18	12	AHF(+)-1812-(*)-RT(+)	24	42	36	66	48	90	60	114
	9	AHF(+)-1809-(*)-RT(+)	24	39	36	63	48	87	60	111
	6	AHF(+)-1806-(*)-RT(+)	24	36	36	60	48	84	60	108
12	9	AHF(+)-1209-(*)-RT(+)	21	39	33	63	45	87	57	111
	6	AHF(+)-1206-(*)-RT(+)	21	36	33	60	45	84	57	108
9	6	AHF(+)-0906-(*)-RT(+)	19-1/2	36	31-1/2	60	43-1/2	84	55-1/2	108

(+) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Horizontal Expanding Tee



Part Numbering System

AUF-4-06-09-L-ET24

Fitting Material and Siderail Width 1 Bottom Fitting Nominal Style Type Radius
Siderail Depth Width 2

Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9, 6

Tray Widths W2: 42, 36, 30, 24, 18, 12, 9

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Technical Specifications

Horizontal EXPANDING TEE – U-Style

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	42	AUF(+)-3642-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	AUF(+)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
	42	AUF(+)-3042-(*)-ET(+)	27	66	39	90	51	114	63	138
24	30	AUF(+)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
	36	AUF(+)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
	42	AUF(+)-2442-(*)-ET(+)	24	66	36	90	48	114	60	138
18	24	AUF(+)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
	30	AUF(+)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
	36	AUF(+)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
	42	AUF(+)-1842-(*)-ET(+)	21	66	33	90	45	114	57	138
12	18	AUF(+)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	AUF(+)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
	30	AUF(+)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	AUF(+)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
	42	AUF(+)-1242-(*)-ET(+)	18	66	30	90	42	114	54	138
9	12	AUF(+)-0912-(*)-ET(+)	16-1/2	36	28-1/2	60	40-1/2	84	52-1/2	108
	18	AUF(+)-0918-(*)-ET(+)	16-1/2	42	28-1/2	66	40-1/2	90	52-1/2	114
	24	AUF(+)-0924-(*)-ET(+)	16-1/2	48	28-1/2	72	40-1/2	96	52-1/2	120
	30	AUF(+)-0930-(*)-ET(+)	16-1/2	54	28-1/2	78	40-1/2	102	52-1/2	126
	36	AUF(+)-0936-(*)-ET(+)	16-1/2	60	28-1/2	84	40-1/2	108	52-1/2	132
	42	AUF(+)-0942-(*)-ET(+)	16-1/2	66	28-1/2	90	40-1/2	114	52-1/2	138
6	9	AUF(+)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
	12	AUF(+)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	AUF(+)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
	24	AUF(+)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	AUF(+)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	AUF(+)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132
	42	AUF(+)-0642-(*)-ET(+)	15	66	27	90	39	114	51	138

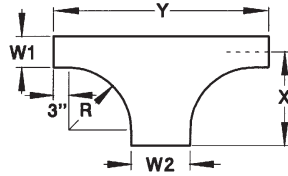
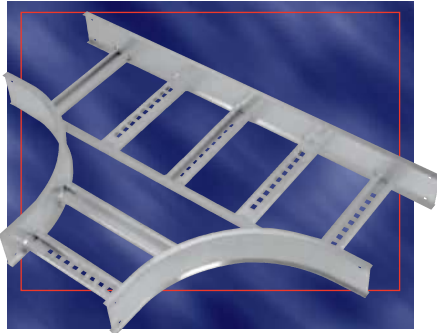
(+) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48"). Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

H-Style Fittings Horizontal Expanding Tee

Aluminum Cable Tray



Part Numbering System

AHF-4-06-09-L-ET24

Fitting Material and Siderail Width 1 Bottom Fitting Nominal Style Type Radius Siderail Depth Width 2

Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9, 6

Tray Widths W2: 42, 36, 30, 24, 18, 12, 9

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Aluminum
Fittings

Technical Specifications

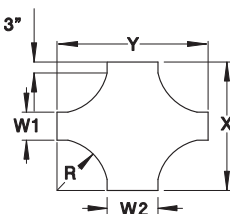
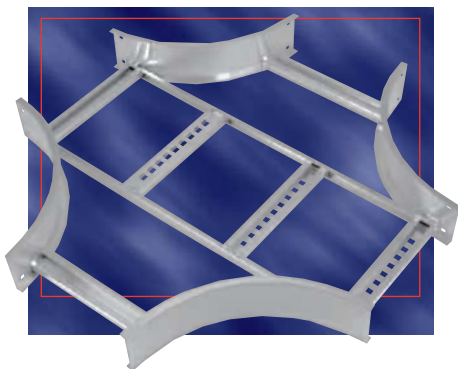
Horizontal EXPANDING TEE – H-Style

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	42	AHF(†)-3642-(*)-ET(+)	33	72	45	96	57	120	69	144
30	36	AHF(†)-3036-(*)-ET(+)	30	66	42	90	54	114	66	138
	42	AHF(†)-3042-(*)-ET(+)	30	72	42	96	54	120	66	144
24	30	AHF(†)-2430-(*)-ET(+)	27	60	39	84	51	108	63	132
	36	AHF(†)-2436-(*)-ET(+)	27	66	39	90	51	114	63	138
	42	AHF(†)-2442-(*)-ET(+)	27	72	39	96	51	120	63	144
18	24	AHF(†)-1824-(*)-ET(+)	24	54	36	78	48	102	60	126
	30	AHF(†)-1830-(*)-ET(+)	24	60	36	84	48	108	60	132
	36	AHF(†)-1836-(*)-ET(+)	24	66	36	90	48	114	60	138
	42	AHF(†)-1842-(*)-ET(+)	24	72	36	96	48	120	60	144
12	18	AHF(†)-1218-(*)-ET(+)	21	48	33	72	45	96	57	120
	24	AHF(†)-1224-(*)-ET(+)	21	54	33	78	45	102	57	126
	30	AHF(†)-1230-(*)-ET(+)	21	60	33	84	45	108	57	132
	36	AHF(†)-1236-(*)-ET(+)	21	66	33	90	45	114	57	138
	42	AHF(†)-1242-(*)-ET(+)	21	72	33	96	45	120	57	144
9	12	AHF(†)-0912-(*)-ET(+)	19-1/2	42	31-1/2	66	43-1/2	90	55-1/2	114
	18	AHF(†)-0918-(*)-ET(+)	19-1/2	48	31-1/2	72	43-1/2	96	55-1/2	120
	24	AHF(†)-0924-(*)-ET(+)	19-1/2	54	31-1/2	78	43-1/2	102	55-1/2	126
	30	AHF(†)-0930-(*)-ET(+)	19-1/2	60	31-1/2	84	43-1/2	108	55-1/2	132
	36	AHF(†)-0936-(*)-ET(+)	19-1/2	66	31-1/2	90	43-1/2	114	55-1/2	138
	42	AHF(†)-0942-(*)-ET(+)	19-1/2	72	31-1/2	96	43-1/2	120	55-1/2	144
6	9	AHF(†)-0609-(*)-ET(+)	18	39	30	63	42	87	54	111
	12	AHF(†)-0612-(*)-ET(+)	18	42	30	66	42	90	54	114
	18	AHF(†)-0618-(*)-ET(+)	18	48	30	72	42	96	54	120
	24	AHF(†)-0624-(*)-ET(+)	18	54	30	78	42	102	54	126
	30	AHF(†)-0630-(*)-ET(+)	18	60	30	84	42	108	54	132
	36	AHF(†)-0636-(*)-ET(+)	18	66	30	90	42	114	54	138
	42	AHF(†)-0642-(*)-ET(+)	18	72	30	96	42	120	54	144

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48"). Includes 2 pairs of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Horizontal Expanding Cross



Part Numbering System

AUF-5-36-42-L-EX36

Fitting Material and Siderail Width 1 Bottom Style Fitting Type Nominal Radius
Siderail Depth Width 2

Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9, 6

Tray Widths W2: 42, 36, 30, 24, 18, 12, 9

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Technical Specifications

Horizontal EXPANDING CROSS – U-Style

Widths		Catalogue Number	(+) 12" Nominal Radius		(+) 24" Nominal Radius		(+) 36" Nominal Radius		(+) 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	42	AUF(+)-3642-(*)-EX(+)	60	66	84	90	108	114	132	138
30	36	AUF(+)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
	42	AUF(+)-3042-(*)-EX(+)	54	66	78	90	102	114	126	138
24	30	AUF(+)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
	36	AUF(+)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
	42	AUF(+)-2442-(*)-EX(+)	48	66	72	90	96	114	120	138
18	24	AUF(+)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
	30	AUF(+)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
	36	AUF(+)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
	42	AUF(+)-1842-(*)-EX(+)	42	66	66	90	90	114	114	138
12	18	AUF(+)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
	24	AUF(+)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
	30	AUF(+)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
	36	AUF(+)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
	42	AUF(+)-1242-(*)-EX(+)	36	66	60	90	84	114	108	138
9	12	AUF(+)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
	18	AUF(+)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
	24	AUF(+)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
	30	AUF(+)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
	36	AUF(+)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
	42	AUF(+)-0942-(*)-EX(+)	33	66	57	90	81	114	105	138
6	9	AUF(+)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
	12	AUF(+)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
	18	AUF(+)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
	24	AUF(+)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
	30	AUF(+)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
	36	AUF(+)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132
	42	AUF(+)-0642-(*)-EX(+)	30	66	54	90	78	114	102	138

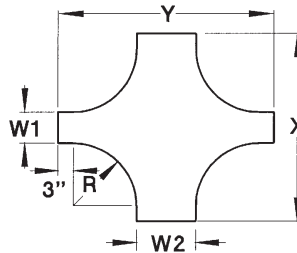
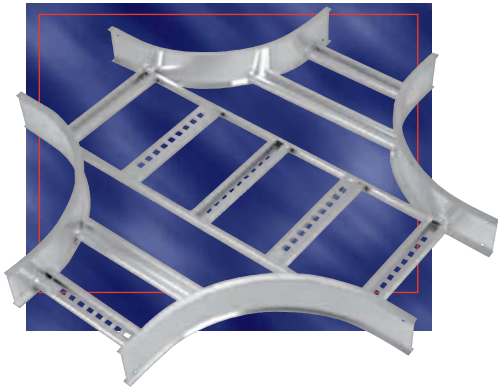
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 3 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

H-Style Fittings Horizontal Expanding Cross

Aluminum Cable Tray



Part Numbering System

AHF-5-36-42-L-EX36

Fitting Material and Siderail Width 1 Bottom Style Fitting Nominal Radius
Siderail Depth Width 2

Selection Guide

Tray Widths W1: 36, 30, 24, 18, 12, 9, 6

Tray Widths W2: 42, 36, 30, 24, 18, 12, 9

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Aluminum
Fittings

Technical Specifications

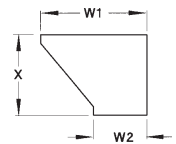
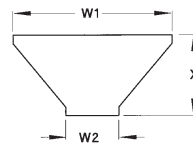
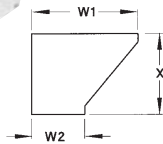
Horizontal EXPANDING CROSS – H-Style

Widths		Catalogue Number	(+) 12" Nominal Radius		(+) 24" Nominal Radius		(+) 36" Nominal Radius		(+) 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	42	AHF(+)-3642-(*)-EX(+)	66	72	90	96	114	120	138	144
30	36	AHF(+)-3036-(*)-EX(+)	60	66	84	90	108	114	132	138
	42	AHF(+)-3042-(*)-EX(+)	60	72	84	96	108	120	132	144
24	30	AHF(+)-2430-(*)-EX(+)	54	60	78	84	102	108	126	132
	36	AHF(+)-2436-(*)-EX(+)	54	66	78	90	102	114	126	138
	42	AHF(+)-2442-(*)-EX(+)	54	72	78	96	102	120	126	144
18	24	AHF(+)-1824-(*)-EX(+)	48	54	72	78	96	102	120	126
	30	AHF(+)-1830-(*)-EX(+)	48	60	72	84	96	108	120	132
	36	AHF(+)-1836-(*)-EX(+)	48	66	72	90	96	114	120	138
	42	AHF(+)-1842-(*)-EX(+)	48	72	72	96	96	120	120	144
12	18	AHF(+)-1218-(*)-EX(+)	42	48	66	72	90	96	114	120
	24	AHF(+)-1224-(*)-EX(+)	42	54	66	78	90	102	114	126
	30	AHF(+)-1230-(*)-EX(+)	42	60	66	84	90	108	114	132
	36	AHF(+)-1236-(*)-EX(+)	42	66	66	90	90	114	114	138
	42	AHF(+)-1242-(*)-EX(+)	42	72	66	96	90	120	114	144
9	12	AHF(+)-0912-(*)-EX(+)	39	42	63	66	87	90	111	114
	18	AHF(+)-0918-(*)-EX(+)	39	48	63	72	87	96	111	120
	24	AHF(+)-0924-(*)-EX(+)	39	54	63	78	87	102	111	126
	30	AHF(+)-0930-(*)-EX(+)	39	60	63	84	87	108	111	132
	36	AHF(+)-0936-(*)-EX(+)	39	66	63	90	87	114	111	138
	42	AHF(+)-0942-(*)-EX(+)	39	72	63	96	87	120	111	144
6	9	AHF(+)-0609-(*)-EX(+)	36	39	60	63	84	87	108	111
	12	AHF(+)-0612-(*)-EX(+)	36	42	60	66	84	90	108	114
	18	AHF(+)-0618-(*)-EX(+)	36	48	60	72	84	96	108	120
	24	AHF(+)-0624-(*)-EX(+)	36	54	60	78	84	102	108	126
	30	AHF(+)-0630-(*)-EX(+)	36	60	60	84	84	108	108	132
	36	AHF(+)-0636-(*)-EX(+)	36	66	60	90	84	114	108	138
	42	AHF(+)-0642-(*)-EX(+)	36	72	60	96	84	120	108	144

(+) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 3 pairs of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Reducers



Part Numbering System

AUF-6-42-36-L-HLR

Fitting Material
and Siderail
Depth

Width 1
Width 2

Bottom
Style

Fitting
Type

Selection Guide

Tray Widths W1: 42, 36, 30, 24, 18, 12, 9

Tray Widths W2: 36, 30, 24, 18, 12, 9, 6

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4" - 7"

Technical Specifications

Horizontal REDUCERS – U-Style

Widths		LH Reducer		Straight Reducer (Concentric)		RH Reducer	
W1	W2	Catalogue Number	Dim. X	Catalogue Number	Dim. X	Catalogue Number	Dim. X
42	36	AUF(†)-42-36-(*)-HLR	15-7/16	AUF(†)-42-36-(*)-HSR	13-3/4	AUF(†)-42-36-(*)-HRR	15-7/16
	30	AUF(†)-42-30-(*)-HLR	18-15/16	AUF(†)-42-30-(*)-HSR	15-7/16	AUF(†)-42-30-(*)-HRR	18-15/16
	24	AUF(†)-42-24-(*)-HLR	22-3/8	AUF(†)-42-24-(*)-HSR	17-3/8	AUF(†)-42-24-(*)-HRR	22-3/8
	18	AUF(†)-42-18-(*)-HLR	25-7/8	AUF(†)-42-18-(*)-HSR	18-5/16	AUF(†)-42-18-(*)-HRR	25-7/8
	12	AUF(†)-42-12-(*)-HLR	29-5/16	AUF(†)-42-12-(*)-HSR	20-11/16	AUF(†)-42-12-(*)-HRR	29-5/16
	9	AUF(†)-42-09-(*)-HLR	31-1/16	AUF(†)-42-09-(*)-HSR	21-1/2	AUF(†)-42-09-(*)-HRR	31-1/16
	6	AUF(†)-42-06-(*)-HLR	32-13/16	AUF(†)-42-06-(*)-HSR	22-3/8	AUF(†)-42-06-(*)-HRR	32-13/16
36	30	AUF(†)-36-30-(*)-HLR	15-7/16	AUF(†)-36-30-(*)-HSR	13-3/4	AUF(†)-36-30-(*)-HRR	15-7/16
	24	AUF(†)-36-24-(*)-HLR	18-15/16	AUF(†)-36-24-(*)-HSR	15-7/16	AUF(†)-36-24-(*)-HRR	18-15/16
	18	AUF(†)-36-18-(*)-HLR	22-3/8	AUF(†)-36-18-(*)-HSR	17-3/8	AUF(†)-36-18-(*)-HRR	22-3/8
	12	AUF(†)-36-12-(*)-HLR	25-7/8	AUF(†)-36-12-(*)-HSR	18-5/16	AUF(†)-36-12-(*)-HRR	25-7/8
	9	AUF(†)-36-09-(*)-HLR	27-9/16	AUF(†)-36-09-(*)-HSR	19-13/16	AUF(†)-36-09-(*)-HRR	27-9/16
	6	AUF(†)-36-06-(*)-HLR	29-5/16	AUF(†)-36-06-(*)-HSR	20-11/16	AUF(†)-36-06-(*)-HRR	29-5/16
30	24	AUF(†)-30-24-(*)-HLR	15-7/16	AUF(†)-30-24-(*)-HSR	13-3/4	AUF(†)-30-24-(*)-HRR	15-7/16
	18	AUF(†)-30-18-(*)-HLR	18-15/16	AUF(†)-30-18-(*)-HSR	15-7/16	AUF(†)-30-18-(*)-HRR	18-15/16
	12	AUF(†)-30-12-(*)-HLR	22-3/8	AUF(†)-30-12-(*)-HSR	17-3/16	AUF(†)-30-12-(*)-HRR	22-3/8
	9	AUF(†)-30-09-(*)-HLR	24-1/8	AUF(†)-30-09-(*)-HSR	18-1/16	AUF(†)-30-09-(*)-HRR	24-1/8
	6	AUF(†)-30-06-(*)-HLR	25-7/8	AUF(†)-30-06-(*)-HSR	18-15/16	AUF(†)-30-06-(*)-HRR	25-7/8
24	18	AUF(†)-24-18-(*)-HLR	15-7/16	AUF(†)-24-18-(*)-HSR	13-3/4	AUF(†)-24-18-(*)-HRR	15-7/16
	12	AUF(†)-24-12-(*)-HLR	18-15/16	AUF(†)-24-12-(*)-HSR	15-7/16	AUF(†)-24-12-(*)-HRR	18-15/16
	9	AUF(†)-24-09-(*)-HLR	20-11/16	AUF(†)-24-09-(*)-HSR	16-5/16	AUF(†)-24-09-(*)-HRR	20-11/16
	6	AUF(†)-24-06-(*)-HLR	22-3/8	AUF(†)-24-06-(*)-HSR	17-3/16	AUF(†)-24-06-(*)-HRR	22-3/8
18	12	AUF(†)-18-12-(*)-HLR	15-7/16	AUF(†)-18-12-(*)-HSR	13-3/4	AUF(†)-18-12-(*)-HRR	15-7/16
	9	AUF(†)-18-09-(*)-HLR	17-3/16	AUF(†)-18-09-(*)-HSR	14-5/8	AUF(†)-18-09-(*)-HRR	17-3/16
	6	AUF(†)-18-06-(*)-HLR	18-15/16	AUF(†)-18-06-(*)-HSR	15-7/16	AUF(†)-18-06-(*)-HRR	18-15/16
12	9	AUF(†)-12-09-(*)-HLR	13-3/4	AUF(†)-12-09-(*)-HSR	12-7/8	AUF(†)-12-09-(*)-HRR	13-3/4
	6	AUF(†)-12-06-(*)-HLR	15-7/16	AUF(†)-12-06-(*)-HSR	13-3/4	AUF(†)-12-06-(*)-HRR	15-7/16
9	6	AUF(†)-09-06-(*)-HLR	13-3/4	AUF(†)-09-06-(*)-HSR	12-7/8	AUF(†)-09-06-(*)-HRR	13-3/4

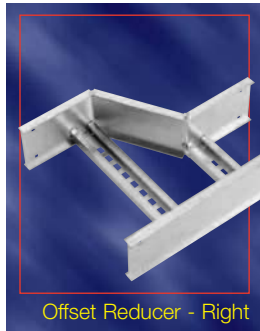
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

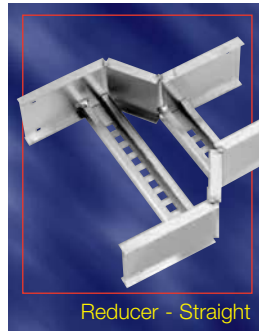
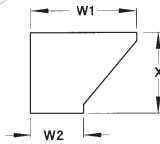
Thomas & Betts

H-Style Fittings Reducers

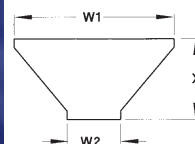
Aluminum Cable Tray



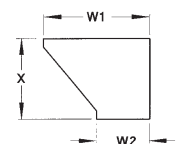
Offset Reducer - Right



Reducer - Straight



Offset Reducer - Left



Part Numbering System

AHF-6-42-36-L-HLR

Fitting Material
and Siderail

Width 1

Bottom
Style

Fitting
Type

Siderail
Depth

Width 2

Selection Guide

Tray Widths W1: 42, 36, 30, 24, 18, 12, 9

Tray Widths W2: 36, 30, 24, 18, 12, 9, 6

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

Aluminum
Fittings

Technical Specifications

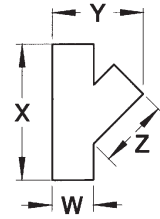
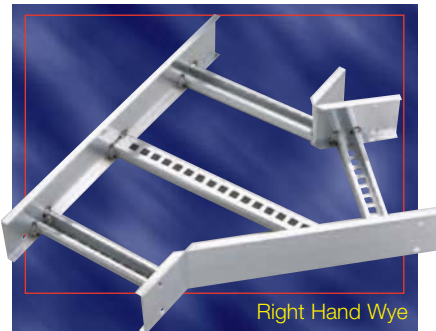
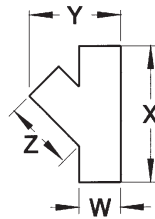
Horizontal REDUCERS – H-Style

Widths		LH Reducer		Straight Reducer (Concentric)		RH Reducer	
W1	W2	Catalogue Number	Dim. X	Catalogue Number	Dim. X	Catalogue Number	Dim. X
42	36	AHF(†)-42-36-(*)-HLR	15-7/16	AHF(†)-42-36-(*)-HSR	13-3/4	AHF(†)-42-36-(*)-HRR	15-7/16
	30	AHF(†)-42-30-(*)-HLR	18-15/16	AHF(†)-42-30-(*)-HSR	15-7/16	AHF(†)-42-30-(*)-HRR	18-15/16
	24	AHF(†)-42-24-(*)-HLR	22-3/8	AHF(†)-42-24-(*)-HSR	17-3/8	AHF(†)-42-24-(*)-HRR	22-3/8
	18	AHF(†)-42-18-(*)-HLR	25-7/8	AHF(†)-42-18-(*)-HSR	18-5/16	AHF(†)-42-18-(*)-HRR	25-7/8
	12	AHF(†)-42-12-(*)-HLR	29-5/16	AHF(†)-42-12-(*)-HSR	20-11/16	AHF(†)-42-12-(*)-HRR	29-5/16
	9	AHF(†)-42-09-(*)-HLR	31-1/16	AHF(†)-42-09-(*)-HSR	21-1/2	AHF(†)-42-09-(*)-HRR	31-1/16
	6	AHF(†)-42-06-(*)-HLR	32-13/16	AHF(†)-42-06-(*)-HSR	22-3/8	AHF(†)-42-06-(*)-HRR	32-13/16
36	30	AHF(†)-36-30-(*)-HLR	15-7/16	AHF(†)-36-30-(*)-HSR	13-3/4	AHF(†)-36-30-(*)-HRR	15-7/16
	24	AHF(†)-36-24-(*)-HLR	18-15/16	AHF(†)-36-24-(*)-HSR	15-7/16	AHF(†)-36-24-(*)-HRR	18-15/16
	18	AHF(†)-36-18-(*)-HLR	22-3/8	AHF(†)-36-18-(*)-HSR	17-3/8	AHF(†)-36-18-(*)-HRR	22-3/8
	12	AHF(†)-36-12-(*)-HLR	25-7/8	AHF(†)-36-12-(*)-HSR	18-5/16	AHF(†)-36-12-(*)-HRR	25-7/8
	9	AHF(†)-36-09-(*)-HLR	27-9/16	AHF(†)-36-09-(*)-HSR	19-13/16	AHF(†)-36-09-(*)-HRR	27-9/16
	6	AHF(†)-36-06-(*)-HLR	29-5/16	AHF(†)-36-06-(*)-HSR	20-11/16	AHF(†)-36-06-(*)-HRR	29-5/16
30	24	AHF(†)-30-24-(*)-HLR	15-7/16	AHF(†)-30-24-(*)-HSR	13-3/4	AHF(†)-30-24-(*)-HRR	15-7/16
	18	AHF(†)-30-18-(*)-HLR	18-15/16	AHF(†)-30-18-(*)-HSR	15-7/16	AHF(†)-30-18-(*)-HRR	18-15/16
	12	AHF(†)-30-12-(*)-HLR	22-3/8	AHF(†)-30-12-(*)-HSR	17-3/16	AHF(†)-30-12-(*)-HRR	22-3/8
	9	AHF(†)-30-09-(*)-HLR	24-1/8	AHF(†)-30-09-(*)-HSR	18-1/16	AHF(†)-30-09-(*)-HRR	24-1/8
	6	AHF(†)-30-06-(*)-HLR	25-7/8	AHF(†)-30-06-(*)-HSR	18-15/16	AHF(†)-30-06-(*)-HRR	25-7/8
24	18	AHF(†)-24-18-(*)-HLR	15-7/16	AHF(†)-24-18-(*)-HSR	13-3/4	AHF(†)-24-18-(*)-HRR	15-7/16
	12	AHF(†)-24-12-(*)-HLR	18-15/16	AHF(†)-24-12-(*)-HSR	15-7/16	AHF(†)-24-12-(*)-HRR	18-15/16
	9	AHF(†)-24-09-(*)-HLR	20-11/16	AHF(†)-24-09-(*)-HSR	16-5/16	AHF(†)-24-09-(*)-HRR	20-11/16
	6	AHF(†)-24-06-(*)-HLR	22-3/8	AHF(†)-24-06-(*)-HSR	17-3/16	AHF(†)-24-06-(*)-HRR	22-3/8
18	12	AHF(†)-18-12-(*)-HLR	15-7/16	AHF(†)-18-12-(*)-HSR	13-3/4	AHF(†)-18-12-(*)-HRR	15-7/16
	9	AHF(†)-18-09-(*)-HLR	17-3/16	AHF(†)-18-09-(*)-HSR	14-5/8	AHF(†)-18-09-(*)-HRR	17-3/16
	6	AHF(†)-18-06-(*)-HLR	18-15/16	AHF(†)-18-06-(*)-HSR	15-7/16	AHF(†)-18-06-(*)-HRR	18-15/16
12	9	AHF(†)-12-09-(*)-HLR	13-3/4	AHF(†)-12-09-(*)-HSR	12-7/8	AHF(†)-12-09-(*)-HRR	13-3/4
	6	AHF(†)-12-06-(*)-HLR	15-7/16	AHF(†)-12-06-(*)-HSR	13-3/4	AHF(†)-12-06-(*)-HRR	15-7/16
9	6	AHF(†)-09-06-(*)-HLR	13-3/4	AHF(†)-09-06-(*)-HSR	12-7/8	AHF(†)-09-06-(*)-HRR	13-3/4

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Horizontal Wye 45°



Part Numbering System

AUF-6-36-L-HYL

Fitting Material and Siderail Width Fitting Type
Siderail Depth Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: **4"– 7"**

Technical Specifications

45° Horizontal WYE – U-Style

Width	Left Hand Wye Catalogue Number	Right Hand Wye Catalogue Number	Dimensions		
			X	Y	Z
6	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
9	AUF(†)-09-(*)-HYL	AUF(†)-09-(*)-HYR	22-1/2	19-15/16	15-7/16
12	AUF(†)-12-(*)-HYL	AUF(†)-12-(*)-HYR	26-3/4	25	18-7/16
18	AUF(†)-18-(*)-HYL	AUF(†)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	AUF(†)-24-(*)-HYL	AUF(†)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	AUF(†)-30-(*)-HYL	AUF(†)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	AUF(†)-36-(*)-HYL	AUF(†)-36-(*)-HYR	60-11/16	66	42-7/16

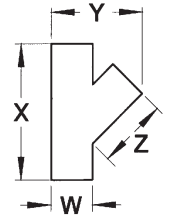
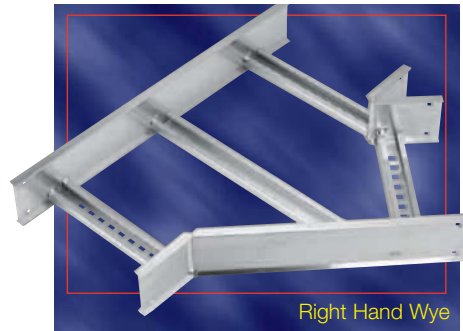
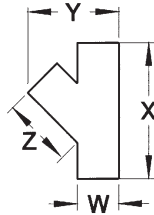
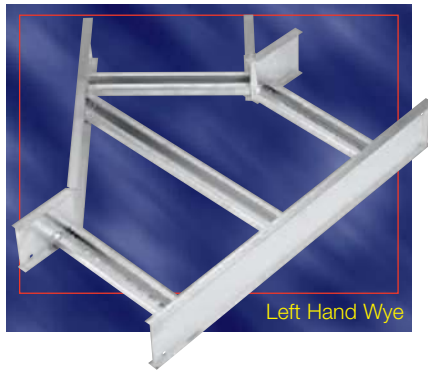
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

H-Style Fittings Horizontal Wye 45°

Aluminum Cable Tray



Part Numbering System

AHF-6-36-L-HYL

Fitting Material
and Siderail

Width

Fitting
Type

Siderail
Depth

Bottom
Style

Selection Guide

Inside Tray Widths:

6, 9, 12, 18, 24, 30, 36, 42

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

Technical Specifications

Aluminum
Fittings

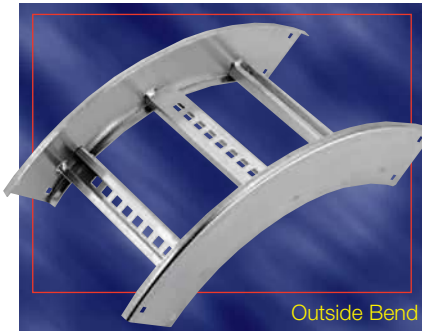
45° Horizontal WYE – H-Style

Width	Left Hand Wye Catalogue Number	Right Hand Wye Catalogue Number	Dimensions		
			X	Y	Z
6	AHF(†)-06-(*)-HYL	AHF(†)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
9	AHF(†)-09-(*)-HYL	AHF(†)-09-(*)-HYR	22-1/2	19-15/16	15-7/16
12	AHF(†)-12-(*)-HYL	AHF(†)-12-(*)-HYR	26-3/4	25	18-7/16
18	AHF(†)-18-(*)-HYL	AHF(†)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	AHF(†)-24-(*)-HYL	AHF(†)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	AHF(†)-30-(*)-HYL	AHF(†)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	AHF(†)-36-(*)-HYL	AHF(†)-36-(*)-HYR	60-11/16	66	42-7/16

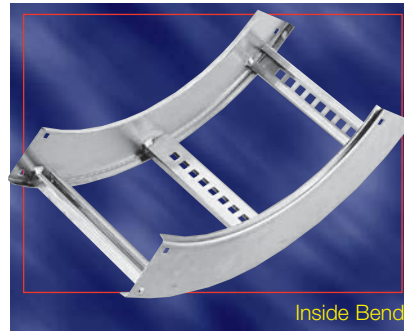
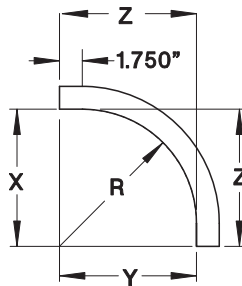
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 2 pairs of splice plates with hardware.

Aluminum Cable Tray

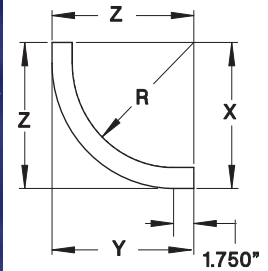
U-Style Fittings Vertical Bends 90°



Outside Bend



Inside Bend



Part Numbering System

AUF-7-30-L-VI90-36

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**

Angle: **90°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L-** Ladder, **V-** Ventilated, **S-** Solid

Side Rail Depth: **4"- 7"**

Technical Specifications

90° Vertical BEND – U-Style

Nominal Radius	Width	Catalogue Number	(+ VO Siderail Height 4" - 7"			(+ VI Siderail Height								
			4"			5"			6"			7"		
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	AUF(+)-06-(*)-(+)-90-12												
	9	AUF(+)-09-(*)-(+)-90-12												
	12	AUF(+)-12-(*)-(+)-90-12												
	18	AUF(+)-18-(*)-(+)-90-12	12	12	12	17-15/16, 17-15/16, 17-15/16	18-13/16, 18-13/16, 18-13/16	20	20	20	21	21	21	
	24	AUF(+)-24-(*)-(+)-90-12												
	30	AUF(+)-30-(*)-(+)-90-12												
	36	AUF(+)-36-(*)-(+)-90-12												
24	42	AUF(+)-42-(*)-(+)-90-12												
	6	AUF(+)-06-(*)-(+)-90-24												
	9	AUF(+)-09-(*)-(+)-90-24												
	12	AUF(+)-12-(*)-(+)-90-24												
	18	AUF(+)-18-(*)-(+)-90-24	24	24	24	29-15/16, 29-15/16, 29-15/16	30-13/16, 30-13/16, 30-13/16	32	32	32	33	33	33	
	24	AUF(+)-24-(*)-(+)-90-24												
	30	AUF(+)-30-(*)-(+)-90-24												
36	36	AUF(+)-36-(*)-(+)-90-24												
	42	AUF(+)-42-(*)-(+)-90-24												
	6	AUF(+)-06-(*)-(+)-90-36												
	9	AUF(+)-09-(*)-(+)-90-36												
	12	AUF(+)-12-(*)-(+)-90-36												
	18	AUF(+)-18-(*)-(+)-90-36	36	36	36	41-15/16, 41-15/16, 41-15/16	42-13/16, 42-13/16, 42-13/16	44	44	44	45	45	45	
	24	AUF(+)-24-(*)-(+)-90-36												
48	30	AUF(+)-30-(*)-(+)-90-36												
	36	AUF(+)-36-(*)-(+)-90-36												
	42	AUF(+)-42-(*)-(+)-90-36												
	6	AUF(+)-06-(*)-(+)-90-48												
	9	AUF(+)-09-(*)-(+)-90-48												
	12	AUF(+)-12-(*)-(+)-90-48												
	18	AUF(+)-18-(*)-(+)-90-48	48	48	48	53-15/16, 53-15/16, 53-15/16	54-13/16, 54-13/16, 54-13/16	56	56	56	57	57	57	
	24	AUF(+)-24-(*)-(+)-90-48												
	30	AUF(+)-30-(*)-(+)-90-48												
	36	AUF(+)-36-(*)-(+)-90-48												
	42	AUF(+)-42-(*)-(+)-90-48												

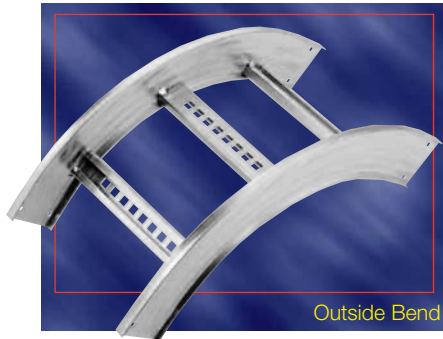
(+) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

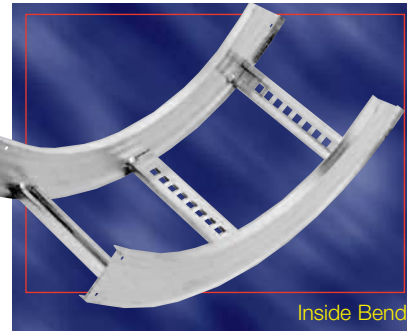
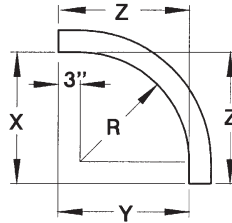
Thomas & Betts

H-Style Fittings Vertical Bends 90°

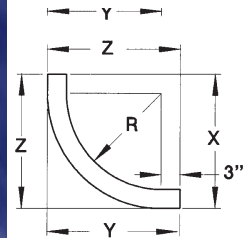
Aluminum Cable Tray



Outside Bend



Inside Bend



Part Numbering System

AHF-7-30-L-VI90-36

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 90°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 4"- 7"

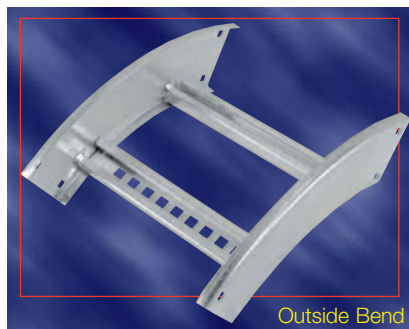
Technical Specifications

90° Vertical BEND — H-Style														
Nominal Radius		Catalogue Number	(+) VO Siderail Height 4” - 7”			(+) VI Siderail Height								
R	Width		4”			5”			6”			7”		
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	AHF(†)-06-(*)-(+)90-12	15	15	15	19-3/16, 19-3/16, 19-3/16	20-1/16, 20-1/16, 20-1/16	21-1/4, 21-1/4, 21-1/4	22-1/4, 22-1/4, 22-1/4					
	9	AHF(†)-09-(*)-(+)90-12												
	12	AHF(†)-12-(*)-(+)90-12												
	18	AHF(†)-18-(*)-(+)90-12												
	24	AHF(†)-24-(*)-(+)90-12												
	30	AHF(†)-30-(*)-(+)90-12												
	36	AHF(†)-36-(*)-(+)90-12												
24	42	AHF(†)-42-(*)-(+)90-12	27	27	27	31-3/16, 31-3/16, 31-3/16	32-1/16, 32-1/16, 32-1/16	33-1/4, 33-1/4, 33-1/4	34-1/4, 34-1/4, 34-1/4					
	6	AHF(†)-06-(*)-(+)90-24												
	9	AHF(†)-09-(*)-(+)90-24												
	12	AHF(†)-12-(*)-(+)90-24												
	18	AHF(†)-18-(*)-(+)90-24												
	24	AHF(†)-24-(*)-(+)90-24												
	30	AHF(†)-30-(*)-(+)90-24												
36	36	AHF(†)-36-(*)-(+)90-24	39	39	39	43-3/16, 43-3/16, 43-3/16	44-1/16, 44-1/16, 44-1/16	45-1/4, 45-1/4, 45-1/4	46-1/4, 46-1/4, 46-1/4					
	42	AHF(†)-42-(*)-(+)90-24												
	6	AHF(†)-06-(*)-(+)90-36												
	9	AHF(†)-09-(*)-(+)90-36												
	12	AHF(†)-12-(*)-(+)90-36												
	18	AHF(†)-18-(*)-(+)90-36												
	24	AHF(†)-24-(*)-(+)90-36												
48	30	AHF(†)-30-(*)-(+)90-36	51	51	51	55-3/16, 55-3/16, 55-3/16	56-1/16, 56-1/16, 56-1/16	57-1/4, 57-1/4, 57-1/4	58-1/4, 58-1/4, 58-1/4					
	36	AHF(†)-36-(*)-(+)90-36												
	42	AHF(†)-42-(*)-(+)90-36												
	6	AHF(†)-06-(*)-(+)90-48												
	9	AHF(†)-09-(*)-(+)90-48												
	12	AHF(†)-12-(*)-(+)90-48												
	18	AHF(†)-18-(*)-(+)90-48												

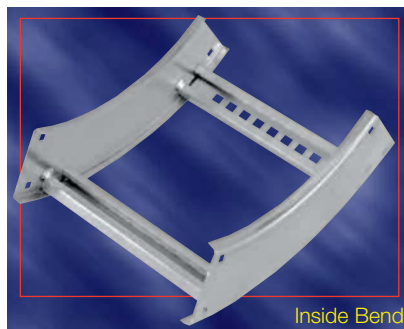
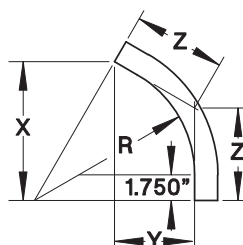
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Aluminum Cable Tray

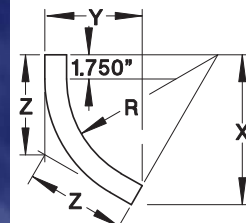
U-Style Fittings Vertical Bends 60°



Outside Bend



Inside Bend



Part Numbering System

AUF-7-36-V-VO60-24

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**

Angle: **60°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L-** Ladder, **V-** Ventilated, **S-** Solid

Side Rail Depth: **4"- 7"**

Technical Specifications

60° Vertical BEND — U-Style

Nominal Radius	Width	Catalogue Number	(+ VO Siderail			(+ VI Siderail Height											
			Height 4" - 7"			4"			5"			6"			7"		
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	AUF(+)-06-(*)-(+)-60-12															
	9	AUF(+)-09-(*)-(+)-60-12															
	12	AUF(+)-12-(*)-(+)-60-12															
	18	AUF(+)-18-(*)-(+)-60-12	13,	7-1/2,	8-11/16	16-5/8,	11-11/16,	11-1/16	17-7/16,	12-5/8,	11-5/8	18-3/8,13-11/16,12-1/4			19-5/16,14-3/4,	12-7/8	
	24	AUF(+)-24-(*)-(+)-60-12															
	30	AUF(+)-30-(*)-(+)-60-12															
	36	AUF(+)-36-(*)-(+)-60-12															
	42	AUF(+)-42-(*)-(+)-60-12															
24	6	AUF(+)-06-(*)-(+)-60-24															
	9	AUF(+)-09-(*)-(+)-60-24															
	12	AUF(+)-12-(*)-(+)-60-24															
	18	AUF(+)-18-(*)-(+)-60-24	23-7/16,	13-1/2,	15-5/8	27,	17-11/16,	18	27-13/16,	18-5/8,	16-9/16	28-3/4,19-11/16,19-3/16			29-11/16,20-3/4,19-13/16		
	24	AUF(+)-24-(*)-(+)-60-24															
	30	AUF(+)-30-(*)-(+)-60-24															
	36	AUF(+)-36-(*)-(+)-60-24															
	42	AUF(+)-42-(*)-(+)-60-24															
36	6	AUF(+)-06-(*)-(+)-60-36															
	9	AUF(+)-09-(*)-(+)-60-36															
	12	AUF(+)-12-(*)-(+)-60-36															
	18	AUF(+)-18-(*)-(+)-60-36	33-13/16,19-1/2,	22-9/16		37-7/16,	23-11/16,	24-15/16	38-3/16,	24-5/8,	25-7/16	39-3/16,25-11/16,26-1/8			40-1/16,26-3/4,26-11/16		
	24	AUF(+)-24-(*)-(+)-60-36															
	30	AUF(+)-30-(*)-(+)-60-36															
	36	AUF(+)-36-(*)-(+)-60-36															
	42	AUF(+)-42-(*)-(+)-60-36															
48	6	AUF(+)-06-(*)-(+)-60-48															
	9	AUF(+)-09-(*)-(+)-60-48															
	12	AUF(+)-12-(*)-(+)-60-48															
	18	AUF(+)-18-(*)-(+)-60-48	44-3/16,	25-1/2,	29-7/16	47-13/16,	29-11/16,	31-7/8	48-9/16,	30-5/8,	32-3/8	49-9/16,31-11/16,33-1/16			50-7/16,32-3/4,33-5/8		
	24	AUF(+)-24-(*)-(+)-60-48															
	30	AUF(+)-30-(*)-(+)-60-48															
	36	AUF(+)-36-(*)-(+)-60-48															
	42	AUF(+)-42-(*)-(+)-60-48															

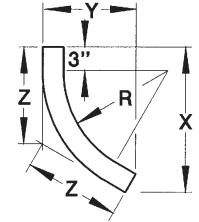
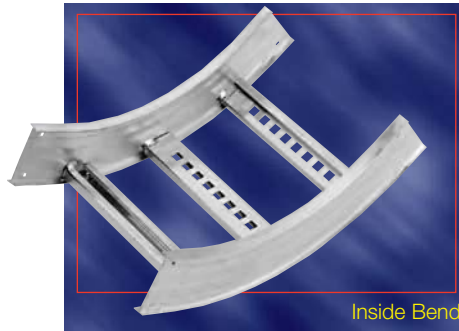
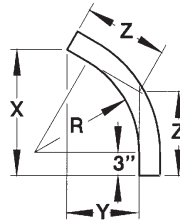
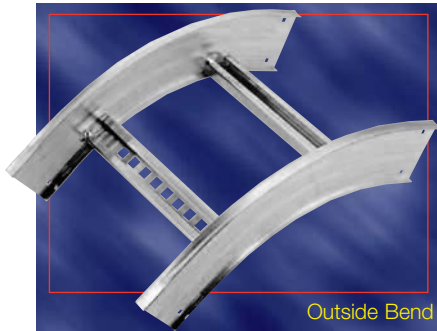
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

H-Style Fittings Vertical Bends 60°

Aluminum Cable Tray



Part Numbering System

AHF-7-36-V-VO60-24

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**

Angle: **60°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L-** Ladder, **V-** Ventilated, **S-** Solid

Side Rail Depth: **4"- 7"**

Aluminum
Fittings

Technical Specifications

60° Vertical BEND — H-Style

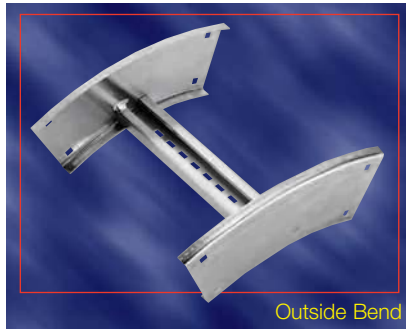
Nominal Radius		Cat. Number	(+ VO Siderail Height 4" - 7"			(+ VI Siderail Height											
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	AHF(†)-06-(*)-(+)60-12															
	9	AHF(†)-09-(*)-(+)60-12															
	12	AHF(†)-12-(*)-(+)60-12															
	18	AHF(†)-18-(*)-(+)60-12	14-7/8,	8-5/8,	9-15/16	18-1/2,	12-3/4,	12-5/16	19-5/16,13-11/16,	12-7/8	20-5/16,14-13/16,13-1/2	21-1/8,	15-13/16,	14-1/8			
	24	AHF(†)-24-(*)-(+)60-12															
	30	AHF(†)-30-(*)-(+)60-12															
	36	AHF(†)-36-(*)-(+)60-12															
24	42	AHF(†)-42-(*)-(+)60-12															
	6	AHF(†)-06-(*)-(+)60-24															
	9	AHF(†)-09-(*)-(+)60-24															
	12	AHF(†)-12-(*)-(+)60-24															
	18	AHF(†)-18-(*)-(+)60-24	25-5/16,	14-5/8,	16-7/8	28-7/8,	18-3/4,	19-1/4	29-11/16,19-11/16,19-13/16	30-11/16,20-13/16,20-7/16	31-9/16,	21-13/16,	21				
	24	AHF(†)-24-(*)-(+)60-24															
	30	AHF(†)-30-(*)-(+)60-24															
36	36	AHF(†)-36-(*)-(+)60-24															
	42	AHF(†)-42-(*)-(+)60-24															
	6	AHF(†)-06-(*)-(+)60-36															
	9	AHF(†)-09-(*)-(+)60-36															
	12	AHF(†)-12-(*)-(+)60-36															
	18	AHF(†)-18-(*)-(+)60-36	35-11/16,	20-5/8,	23-13/16	39-5/16,	24-3/4,	26-3/16	40-1/16,25-11/16,26-11/16	41-1/16,26-13/16,27-3/8	41-15/16,27-13/16,27-15/16						
	24	AHF(†)-24-(*)-(+)60-36															
48	30	AHF(†)-30-(*)-(+)60-36															
	36	AHF(†)-36-(*)-(+)60-36															
	42	AHF(†)-42-(*)-(+)60-36															
	6	AHF(†)-06-(*)-(+)60-48															
	9	AHF(†)-09-(*)-(+)60-48															
	12	AHF(†)-12-(*)-(+)60-48															
	18	AHF(†)-18-(*)-(+)60-48	46-1/16,	26-5/8,	30-11/16	49-11/16,30-3/4,	33-1/8	50-7/16,31-11/16,33-5/8	51-1/2,32-13/16,34-5/16	52-5/16,	33-13/16,	34-7/8					
48	24	AHF(†)-24-(*)-(+)60-48															
	30	AHF(†)-30-(*)-(+)60-48															
	36	AHF(†)-36-(*)-(+)60-48															
48	42	AHF(†)-42-(*)-(+)60-48															

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

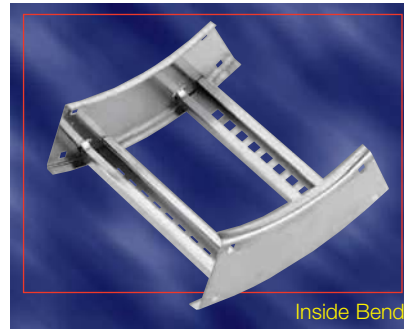
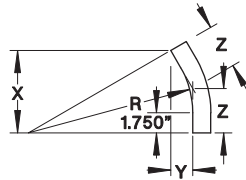
T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Aluminum Cable Tray

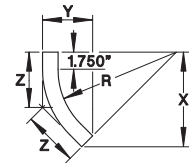
U-Style Fittings Vertical Bends 45°



Outside Bend



Inside Bend



Part Numbering System

AUF-5-24-S-VI45-48

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths:

6, 9, 12, 18, 24, 30, 36, 42

Angle: **45°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**- Ladder, **V**- Ventilated, **S**- Solid

Technical Specifications

45° Vertical BEND – U-Style

Nominal Radius	R	Width	Catalogue Number	(+ VO Siderail Height 4" - 7"			(+ VI Siderail Height											
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6		AUF(t)-06-(*)-(+)45-12															
	9		AUF(t)-09-(*)-(+)45-12															
	12		AUF(t)-12-(*)-(+)45-12															
	18		AUF(t)-18-(*)-(+)45-12	11-1/2	4-3/4	6-3/4	14-7/16	8-15/16	8-7/16	15-1/16	9-13/16	8-13/16	15-7/8	10-15/16	9-5/16	16-9/16	12	9-3/4
	24		AUF(t)-24-(*)-(+)45-12															
	30		AUF(t)-30-(*)-(+)45-12															
	36		AUF(t)-36-(*)-(+)45-12															
24	42		AUF(t)-42-(*)-(+)45-12															
	6		AUF(t)-06-(*)-(+)45-24															
	9		AUF(t)-09-(*)-(+)45-24															
	12		AUF(t)-12-(*)-(+)45-24															
	18		AUF(t)-18-(*)-(+)45-24	19-15/16	8-1/4	11-11/16	22-15/16	12-7/16	13-7/16	23-9/16	13-3/8	13-13/16	24-5/16	14-7/16	14-1/4	25-1/16	15-1/2	14-11/16
	24		AUF(t)-24-(*)-(+)45-24															
	30		AUF(t)-30-(*)-(+)45-24															
36	36		AUF(t)-36-(*)-(+)45-24															
	42		AUF(t)-42-(*)-(+)45-24															
	6		AUF(t)-06-(*)-(+)45-36															
	9		AUF(t)-09-(*)-(+)45-36															
	12		AUF(t)-12-(*)-(+)45-36															
	18		AUF(t)-18-(*)-(+)45-36	28-7/16	11-13/16	16-11/16	31-3/8	15-15/16	18-3/8	32-1/16	16-7/8	18-3/4	32-13/16	18	19-1/4	33-9/16	19	19-11/16
	24		AUF(t)-24-(*)-(+)45-36															
48	30		AUF(t)-30-(*)-(+)45-36															
	36		AUF(t)-36-(*)-(+)45-36															
	42		AUF(t)-42-(*)-(+)45-36															
	6		AUF(t)-06-(*)-(+)45-48															
	9		AUF(t)-09-(*)-(+)45-48															
	12		AUF(t)-12-(*)-(+)45-48															
	18		AUF(t)-18-(*)-(+)45-48	36-15/16	15-5/16	21-5/8	39-7/8	19-1/2	23-3/8	40-1/2	20-3/8	23-3/4	41-5/16	21-1/2	24-3/16	42-1/16	22-9/16	24-5/8
	24		AUF(t)-24-(*)-(+)45-48															
	30		AUF(t)-30-(*)-(+)45-48															
	36		AUF(t)-36-(*)-(+)45-48															
	42		AUF(t)-42-(*)-(+)45-48															

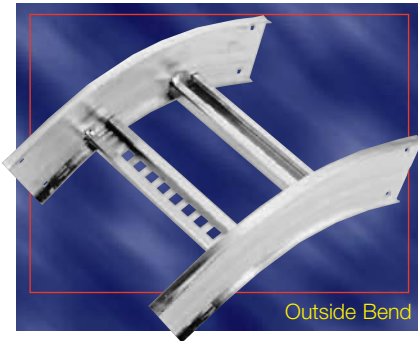
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

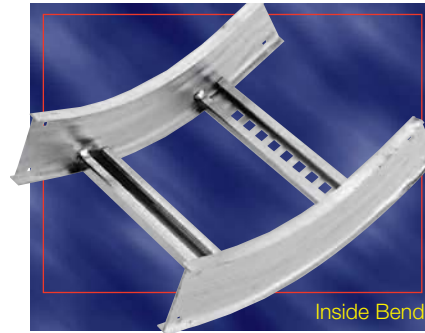
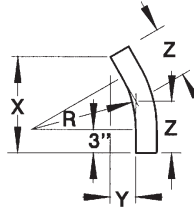
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H-Style Fittings Vertical Bends 45°

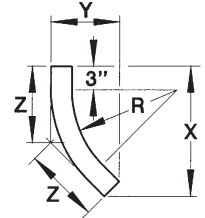
Aluminum Cable Tray



Outside Bend



Inside Bend



Part Numbering System

AHF-5-24-S-VI45-48

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths:

6, 9, 12, 18, 24, 30, 36, 42

Angle: **45°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**- Ladder, **V**- Ventilated, **S**- Solid

Technical Specifications

45° Vertical BEND – H-Style

Nominal Radius			(+ VO Siderail			(+ VI Siderail Height											
			Height 4” - 7”			4”			5”			6”			7”		
R	Width	Catalogue Number	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	AHF(†)-06-(*)-(+)45-12	13-5/8	5-5/8	8	16-9/16	9-13/16	9-11/16	17-3/16	10-11/16	10-1/16	18	11-7/8	10-9/16	18-11/16	12-7/8	10-15/16
	9	AHF(†)-09-(*)-(+)45-12															
	12	AHF(†)-12-(*)-(+)45-12															
	18	AHF(†)-18-(*)-(+)45-12															
	24	AHF(†)-24-(*)-(+)45-12															
	30	AHF(†)-30-(*)-(+)45-12															
	36	AHF(†)-36-(*)-(+)45-12															
42	AHF(†)-42-(*)-(+)45-12																
24	6	AHF(†)-06-(*)-(+)45-24	22-1/16	9-1/8	12-15/16	25-1/16	13-5/16	14-11/16	25-11/16	14-1/4	15-1/16	26-1/2	15-3/8	15-1/2	27-3/16	16-3/8	15-15/16
	9	AHF(†)-09-(*)-(+)45-24															
	12	AHF(†)-12-(*)-(+)45-24															
	18	AHF(†)-18-(*)-(+)45-24															
	24	AHF(†)-24-(*)-(+)45-24															
	30	AHF(†)-30-(*)-(+)45-24															
	36	AHF(†)-36-(*)-(+)45-24															
42	AHF(†)-42-(*)-(+)45-24																
36	6	AHF(†)-06-(*)-(+)45-36	30-9/16	12-11/16	17-15/16	33-1/2	16-13/16	19-5/8	34-3/16	17-3/4	20	35	18-7/8	20-1/2	35-11/16	19-7/8	20-7/8
	9	AHF(†)-09-(*)-(+)45-36															
	12	AHF(†)-12-(*)-(+)45-36															
	18	AHF(†)-18-(*)-(+)45-36															
	24	AHF(†)-24-(*)-(+)45-36															
	30	AHF(†)-30-(*)-(+)45-36															
	36	AHF(†)-36-(*)-(+)45-36															
42	AHF(†)-42-(*)-(+)45-36																
48	6	AHF(†)-06-(*)-(+)45-48	39-1/16	16-3/16	22-7/8	42	20-3/8	24-5/8	42- 5/8	21-1/4	25	43-1/2	22-7/16	25-7/16	44-3/16	23-3/8	25-7/8
	9	AHF(†)-09-(*)-(+)45-48															
	12	AHF(†)-12-(*)-(+)45-48															
	18	AHF(†)-18-(*)-(+)45-48															
	24	AHF(†)-24-(*)-(+)45-48															
	30	AHF(†)-30-(*)-(+)45-48															
	36	AHF(†)-36-(*)-(+)45-48															
42	AHF(†)-42-(*)-(+)45-48																

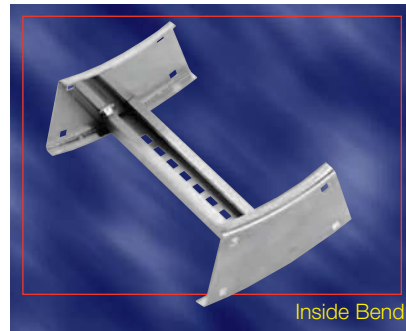
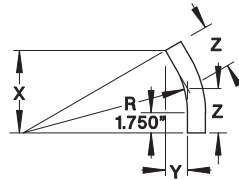
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Aluminum Cable Tray

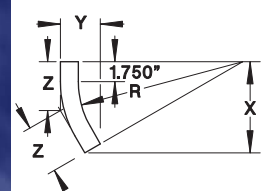
U-Style Fittings Vertical Bends 30°



Outside Bend



Inside Bend



Part Numbering System

AUF-6-12-L-VO30-24

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Angle: **30°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L-** Ladder, **V-** Ventilated, **S-** Solid

Technical Specifications

30° Vertical BEND – U-Style

Nominal Radius	R	Width	Catalogue Number	(+ VO Siderail Height 4" - 7"			(+ VI Siderail Height											
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6		AUF(+)-06-(*)-(+)-30-12															
	9		AUF(+)-09-(*)-(+)-30-12															
	12		AUF(+)-12-(*)-(+)-30-12															
	18		AUF(+)-18-(*)-(+)-30-12	9-1/4	2-1/2	4-15/16	11-3/8	6-11/16	6-1/16	11-13/16	7-9/16	6-5/16	12-3/8	8-11/16	6-5/8	12-7/8	9-3/4	6-7/8
	24		AUF(+)-24-(*)-(+)-30-12															
	30		AUF(+)-30-(*)-(+)-30-12															
	36		AUF(+)-36-(*)-(+)-30-12															
24	42		AUF(+)-42-(*)-(+)-30-12															
	6		AUF(+)-06-(*)-(+)-30-24															
	9		AUF(+)-09-(*)-(+)-30-24															
	12		AUF(+)-12-(*)-(+)-30-24															
	18		AUF(+)-18-(*)-(+)-30-24	15-1/4	4-1/16	8-3/16	17-3/8	8-1/4	9-5/16	17-13/16	9-3/16	9-9/16	18-3/8	10-1/4	9-13/16	18-7/8	11-5/16	10-1/8
	24		AUF(+)-24-(*)-(+)-30-24															
	30		AUF(+)-30-(*)-(+)-30-24															
36	36		AUF(+)-36-(*)-(+)-30-24															
	42		AUF(+)-42-(*)-(+)-30-24															
	6		AUF(+)-06-(*)-(+)-30-36															
	9		AUF(+)-09-(*)-(+)-30-36															
	12		AUF(+)-12-(*)-(+)-30-36															
	18		AUF(+)-18-(*)-(+)-30-36	21-1/4	5-11/16	11-3/8	23-3/8	9-7/8	12-1/2	23-13/16	10-3/4	12-3/4	24-3/8	11-7/8	13-1/16	24-7/8	12-15/16	13-5/16
	24		AUF(+)-24-(*)-(+)-30-36															
48	30		AUF(+)-30-(*)-(+)-30-36															
	36		AUF(+)-36-(*)-(+)-30-36															
	42		AUF(+)-42-(*)-(+)-30-36															
	6		AUF(+)-06-(*)-(+)-30-48															
	9		AUF(+)-09-(*)-(+)-30-48															
	12		AUF(+)-12-(*)-(+)-30-48															
	18		AUF(+)-18-(*)-(+)-30-48	21-1/4	7-5/16	14-5/8	29-3/8	11-1/2	15-3/4	29-13/16	12-3/8	16	30-3/8	13-1/2	16-1/4	30-7/8	14-9/16	16-9/16
	24		AUF(+)-24-(*)-(+)-30-48															
	30		AUF(+)-30-(*)-(+)-30-48															
	36		AUF(+)-36-(*)-(+)-30-48															
	42		AUF(+)-42-(*)-(+)-30-48															

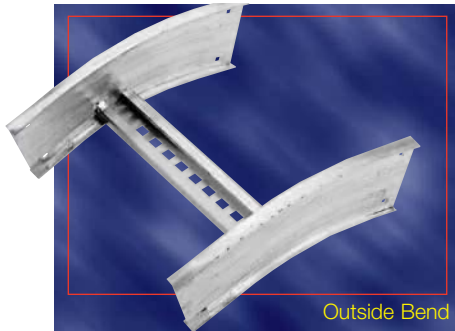
(+) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

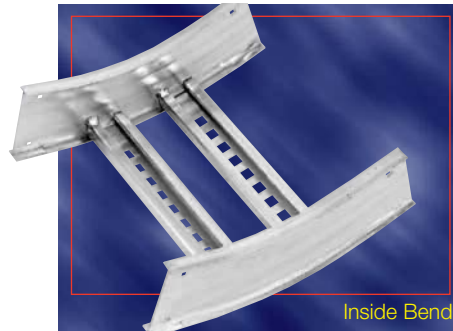
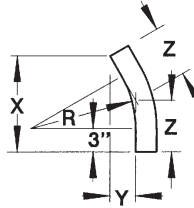
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H-Style Fittings Vertical Bends 30°

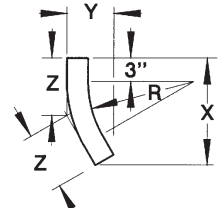
Aluminum Cable Tray



Outside Bend



Inside Bend



Part Numbering System

AHF-6-12-L-VO30-24

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style Degree

Selection Guide

Inside Tray Widths:

6, 9, 12, 18, 24, 30, 36, 42

Angle: **30°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**- Ladder, **V**- Ventilated, **S**- Solid

Technical Specifications

Aluminum
Fittings

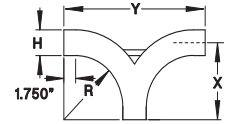
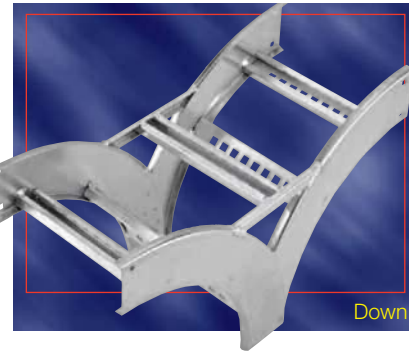
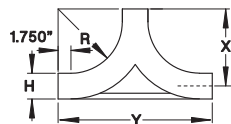
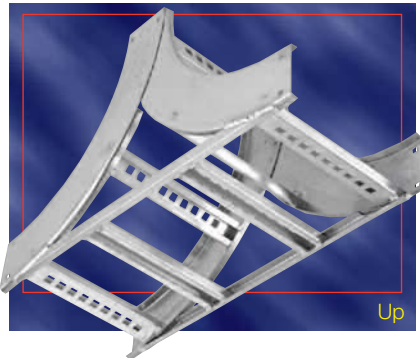
30° Vertical BEND – H-Style

Nominal Radius		Catalogue Number	(+ VO Siderail			(+ VI Siderail Height											
			Height 4" - 7"			4"			5"			6"			7"		
R	Width		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	AHF(†)-06-(*)-(+)30-12	11-5/8	3-1/8	6-3/16	13-11/16	7-5/16	7-5/16	14-1/8	8-3/16	7-9/16	14-11/16	9-3/8	7-7/8	13-11/16	10-5/16	8-1/8
	9	AHF(†)-09-(*)-(+)30-12															
	12	AHF(†)-12-(*)-(+)30-12															
	18	AHF(†)-18-(*)-(+)30-12															
	24	AHF(†)-24-(*)-(+)30-12															
	30	AHF(†)-30-(*)-(+)30-12															
	36	AHF(†)-36-(*)-(+)30-12															
42	AHF(†)-42-(*)-(+)30-12																
24	6	AHF(†)-06-(*)-(+)30-24	17-5/8	4-11/16	9-7/16	19-11/16	8-7/8	10-9/16	20-1/8	9-13/16	10-13/16	20-11/16	10-15/16	11-1/8	19-11/16	11-15/16	11-3/8
	9	AHF(†)-09-(*)-(+)30-24															
	12	AHF(†)-12-(*)-(+)30-24															
	18	AHF(†)-18-(*)-(+)30-24															
	24	AHF(†)-24-(*)-(+)30-24															
	30	AHF(†)-30-(*)-(+)30-24															
	36	AHF(†)-36-(*)-(+)30-24															
42	AHF(†)-42-(*)-(+)30-24																
36	6	AHF(†)-06-(*)-(+)30-36	23-5/8	6-5/16	12-5/8	25-11/16	10-1/2	13-6/8	26-1/8	11-3/8	14	26-11/16	12-9/16	14-5/16	25-11/16	13-9/16	14-9/16
	9	AHF(†)-09-(*)-(+)30-36															
	12	AHF(†)-12-(*)-(+)30-36															
	18	AHF(†)-18-(*)-(+)30-36															
	24	AHF(†)-24-(*)-(+)30-36															
	30	AHF(†)-30-(*)-(+)30-36															
	36	AHF(†)-36-(*)-(+)30-36															
42	AHF(†)-42-(*)-(+)30-36																
48	6	AHF(†)-06-(*)-(+)30-48	29-5/8	7-15/16	15-7/8	31-11/16	12-1/8	17	32-1/8	13	17-1/4	32-11/16	14-3/16	17-9/16	31-11/16	15-1/8	17-13/16
	9	AHF(†)-09-(*)-(+)30-48															
	12	AHF(†)-12-(*)-(+)30-48															
	18	AHF(†)-18-(*)-(+)30-48															
	24	AHF(†)-24-(*)-(+)30-48															
	30	AHF(†)-30-(*)-(+)30-48															
	36	AHF(†)-36-(*)-(+)30-48															
42	AHF(†)-42-(*)-(+)30-48																

(+) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside. Includes 1 pair of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Vertical Tee Up / Down



Part Numbering System

AUF-6-24-L-VTD-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**- Ladder, **V**- Ventilated, **S**- Solid

Side Rail Depth: **4"- 7"**

Technical Specifications

Vertical TEE Up/Down – U-Style

Nominal Radius	R	Width	Catalogue Number	Catalogue Number	Siderail Height "H"							
					4"		5"		6"		7"	
					X	Y	X	Y	X	Y	X	Y
12	6		AUF(t)-06-(*)-VTU12	AUF-06-(*)-VTD12								
	9		AUF(t)-09-(*)-VTU12	AUF-09-(*)-VTD12								
	12		AUF(t)-12-(*)-VTU12	AUF-12-(*)-VTD12								
	18		AUF(t)-18-(*)-VTU12	AUF-18-(*)-VTD12	15-13/16	31-11/16	16-5/16	32-9/16	16-7/8	33-3/4	17-3/8	34-3/4
	24		AUF(t)-24-(*)-VTU12	AUF-24-(*)-VTD12								
	30		AUF(t)-30-(*)-VTU12	AUF-30-(*)-VTD12								
	36		AUF(t)-36-(*)-VTU12	AUF-36-(*)-VTD12								
24	42		AUF(t)-42-(*)-VTU12	AUF-42-(*)-VTD12								
	6		AUF(t)-06-(*)-VTU24	AUF-06-(*)-VTD24								
	9		AUF(t)-09-(*)-VTU24	AUF-09-(*)-VTD24								
	12		AUF(t)-12-(*)-VTU24	AUF-12-(*)-VTD24								
	18		AUF(t)-18-(*)-VTU24	AUF-18-(*)-VTD24	27-13/16	55-11/16	28-5/16	56-9/16	28-7/8	57-3/4	29-3/8	58-3/4
	24		AUF(t)-24-(*)-VTU24	AUF-24-(*)-VTD24								
	30		AUF(t)-30-(*)-VTU24	AUF-30-(*)-VTD24								
36	36		AUF(t)-36-(*)-VTU24	AUF-36-(*)-VTD24								
	42		AUF(t)-42-(*)-VTU24	AUF-42-(*)-VTD24								
	6		AUF(t)-06-(*)-VTU36	AUF-06-(*)-VTD36								
	9		AUF(t)-09-(*)-VTU36	AUF-09-(*)-VTD36								
	12		AUF(t)-12-(*)-VTU36	AUF-12-(*)-VTD36								
	18		AUF(t)-18-(*)-VTU36	AUF-18-(*)-VTD36	39-13/16	79-11/16	40-5/16	80-9/16	40-7/8	81-3/4	41-3/8	82-3/4
	24		AUF(t)-24-(*)-VTU36	AUF-24-(*)-VTD36								
48	30		AUF(t)-30-(*)-VTU36	AUF-30-(*)-VTD36								
	36		AUF(t)-36-(*)-VTU36	AUF-36-(*)-VTD36								
	42		AUF(t)-42-(*)-VTU36	AUF-42-(*)-VTD36								
	6		AUF(t)-06-(*)-VTU48	AUF-06-(*)-VTD48								
	9		AUF(t)-09-(*)-VTU48	AUF-09-(*)-VTD48								
	12		AUF(t)-12-(*)-VTU48	AUF-12-(*)-VTD48								
	18		AUF(t)-18-(*)-VTU48	AUF-18-(*)-VTD48	51-13/16	103-11/16	52-5/16	104-9/16	52-7/8	105-3/4	53-3/8	106-3/4
	24		AUF(t)-24-(*)-VTU48	AUF-24-(*)-VTD48								
	30		AUF(t)-30-(*)-VTU48	AUF-30-(*)-VTD48								
	36		AUF(t)-36-(*)-VTU48	AUF-36-(*)-VTD48								
	42		AUF(t)-42-(*)-VTU48	AUF-42-(*)-VTD48								

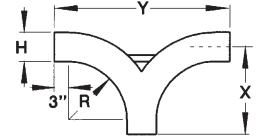
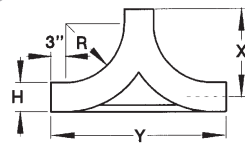
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas & Betts

H-Style Fittings Vertical Tee Up / Down

Aluminum Cable Tray



Part Numbering System

AHF-6-24-L-VTD-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **4"– 7"**

Technical Specifications

Aluminum
Fittings

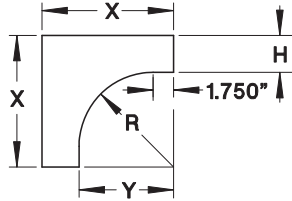
Vertical TEE Up/Down – H-Style

Nominal Radius	R	Width	Catalogue Number	Catalogue Number	Siderail Height "H"							
					4"		5"		6"		7"	
					X	Y	X	Y	X	Y	X	Y
12	6		AHF(†)-06-(*)-VTU12	AHF-06-(*)-VTD12								
	9		AHF(†)-09-(*)-VTU12	AHF-09-(*)-VTD12								
	12		AHF(†)-12-(*)-VTU12	AHF-12-(*)-VTD12								
	18		AHF(†)-18-(*)-VTU12	AHF-18-(*)-VTD12	17-1/16	34-3/16	17-9/16	35-1/16	18-1/8	36-1/4	18-5/8	37-1/4
	24		AHF(†)-24-(*)-VTU12	AHF-24-(*)-VTD12								
	30		AHF(†)-30-(*)-VTU12	AHF-30-(*)-VTD12								
	36		AHF(†)-36-(*)-VTU12	AHF-36-(*)-VTD12								
24	42		AHF(†)-42-(*)-VTU12	AHF-42-(*)-VTD12								
	6		AHF(†)-06-(*)-VTU24	AHF-06-(*)-VTD24								
	9		AHF(†)-09-(*)-VTU24	AHF-09-(*)-VTD24								
	12		AHF(†)-12-(*)-VTU24	AHF-12-(*)-VTD24								
	18		AHF(†)-18-(*)-VTU24	AHF-18-(*)-VTD24	29-1/16	58-3/16	29-9/16	59-1/16	30-1/8	60-1/4	30-5/8	61-1/4
	24		AHF(†)-24-(*)-VTU24	AHF-24-(*)-VTD24								
	30		AHF(†)-30-(*)-VTU24	AHF-30-(*)-VTD24								
36	36		AHF(†)-36-(*)-VTU24	AHF-36-(*)-VTD24								
	42		AHF(†)-42-(*)-VTU24	AHF-42-(*)-VTD24								
	6		AHF(†)-06-(*)-VTU36	AHF-06-(*)-VTD36								
	9		AHF(†)-09-(*)-VTU36	AHF-09-(*)-VTD36								
	12		AHF(†)-12-(*)-VTU36	AHF-12-(*)-VTD36								
	18		AHF(†)-18-(*)-VTU36	AHF-18-(*)-VTD36	41-1/16	82-3/16	41-9/16	83-1/16	42-1/8	84-1/4	42-5/8	85-1/4
	24		AHF(†)-24-(*)-VTU36	AHF-24-(*)-VTD36								
48	30		AHF(†)-30-(*)-VTU36	AHF-30-(*)-VTD36								
	36		AHF(†)-36-(*)-VTU36	AHF-36-(*)-VTD36								
	42		AHF(†)-42-(*)-VTU36	AHF-42-(*)-VTD36								
	6		AHF(†)-06-(*)-VTU48	AHF-06-(*)-VTD48								
	9		AHF(†)-09-(*)-VTU48	AHF-09-(*)-VTD48								
	12		AHF(†)-12-(*)-VTU48	AHF-12-(*)-VTD48								
	18		AHF(†)-18-(*)-VTU48	AHF-18-(*)-VTD48	53-1/16	106-3/16	53-9/16	107-1/16	54-1/8	108-1/4	54-5/8	109-1/4
48	24		AHF(†)-24-(*)-VTU48	AHF-24-(*)-VTD48								
	30		AHF(†)-30-(*)-VTU48	AHF-30-(*)-VTD48								
	36		AHF(†)-36-(*)-VTU48	AHF-36-(*)-VTD48								
	42		AHF(†)-42-(*)-VTU48	AHF-42-(*)-VTD48								

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

Aluminum Cable Tray

U-Style Fittings Cable Support



Part Numbering System

AUF-5-24-V-CS-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style

Selection Guide

Inside Tray Widths:
6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L-** Ladder, **V-** Ventilated, **S-** Solid

Side Rail Depth: **4"- 7"**

Technical Specifications

Cable Support Fitting - U-Style

Nominal Radius	R	Width	Catalogue Number	Siderail Height "H"							
				4"		5"		6"		7"	
				X	Y	X	Y	X	Y	X	Y
12	6		AUF(t)-06(*)-CS12								
	9		AUF(t)-09(*)-CS12								
	12		AUF(t)-12(*)-CS12								
	18		AUF(t)-18(*)-CS12	17-15/16	13-3/4	18-13/16	13-3/4	20	13-3/4	21	13-3/4
	24		AUF(t)-24(*)-CS12								
	30		AUF(t)-30(*)-CS12								
	36		AUF(t)-36(*)-CS12								
24	42		AUF(t)-42(*)-CS12								
	6		AUF(t)-06(*)-CS24								
	9		AUF(t)-09(*)-CS24								
	12		AUF(t)-12(*)-CS24								
	18		AUF(t)-18(*)-CS24	29-15/16	25-3/4	30-13/16	25-3/4	32	25-3/4	33	25-3/4
	24		AUF(t)-24(*)-CS24								
	30		AUF(t)-30(*)-CS24								
36	36		AUF(t)-36(*)-CS24								
	42		AUF(t)-42(*)-CS24								
	6		AUF(t)-06(*)-CS36								
	9		AUF(t)-09(*)-CS36								
	12		AUF(t)-12(*)-CS36								
	18		AUF(t)-18(*)-CS36	41-15/16	37-3/4	42-13/16	37-3/4	44	37-3/4	45	37-3/4
	24		AUF(t)-24(*)-CS36								
48	30		AUF(t)-30(*)-CS36								
	36		AUF(t)-36(*)-CS36								
	42		AUF(t)-42(*)-CS36								
	6		AUF(t)-06(*)-CS48								
	9		AUF(t)-09(*)-CS48								
	12		AUF(t)-12(*)-CS48								
	18		AUF(t)-18(*)-CS48	53-15/16	49-3/4	54-13/16	49-3/4	56	49-3/4	57	49-3/4
	24		AUF(t)-24(*)-CS48								
	30		AUF(t)-30(*)-CS48								
	36		AUF(t)-36(*)-CS48								
	42		AUF(t)-42(*)-CS48								

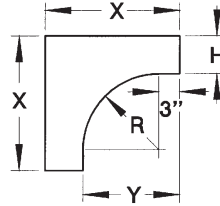
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

T&B aluminum cable tray is composed of two distinct systems
H-Style and U-Style. These systems are interchangeable.

Thomas&Betts

H-Style Fittings Cable Support

Aluminum Cable Tray



Part Numbering System

AHF-5-24-V-CS-12

Fitting Material and Siderail Width Fitting Type Nominal Radius
Siderail Depth Bottom Style

Selection Guide

Inside Tray Widths:

6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L-** Ladder, **V-** Ventilated, **S-** Solid

Side Rail Depth: **4"- 7"**

Technical Specifications

Aluminum
Fittings

Cable Support Fitting - H-Style

Nominal Radius	Width		Catalogue Number	Siderail Height "H"							
				4"		5"		6"		7"	
				X	Y	X	Y	X	Y	X	Y
12	6		AHF(t)-06-(*)-CS12								
	9		AHF(t)-09-(*)-CS12								
	12		AHF(t)-12-(*)-CS12								
	18		AHF(t)-18-(*)-CS12	19-3/16	15	20-1/16	15	21-1/4	15	22-1/4	15
	24		AHF(t)-24-(*)-CS12								
	30		AHF(t)-30-(*)-CS12								
	36		AHF(t)-36-(*)-CS12								
24	42		AHF(t)-42-(*)-CS12								
	6		AHF(t)-06-(*)-CS24								
	9		AHF(t)-09-(*)-CS24								
	12		AHF(t)-12-(*)-CS24								
	18		AHF(t)-18-(*)-CS24	31-3/16	27	32-1/16	27	33-1/4	27	34-1/4	27
	24		AHF(t)-24-(*)-CS24								
	30		AHF(t)-30-(*)-CS24								
36	36		AHF(t)-36-(*)-CS24								
	42		AHF(t)-42-(*)-CS24								
	6		AHF(t)-06-(*)-CS36								
	9		AHF(t)-09-(*)-CS36								
	12		AHF(t)-12-(*)-CS36								
	18		AHF(t)-18-(*)-CS36	43-3/16	39	44-1/16	39	45-1/4	39	46-1/4	39
	24		AHF(t)-24-(*)-CS36								
48	30		AHF(t)-30-(*)-CS36								
	36		AHF(t)-36-(*)-CS36								
	42		AHF(t)-42-(*)-CS36								
	6		AHF(t)-06-(*)-CS48								
	9		AHF(t)-09-(*)-CS48								
	12		AHF(t)-12-(*)-CS48								
	18		AHF(t)-18-(*)-CS48	55-3/16	51	56-1/16	51	57-1/4	51	58-1/4	51
	24		AHF(t)-24-(*)-CS48								
	30		AHF(t)-30-(*)-CS48								
	36		AHF(t)-36-(*)-CS48								
	42		AHF(t)-42-(*)-CS48								

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

Aluminum Cable Tray

Covers Straight Cover Number Selection

Tray Covers

- Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

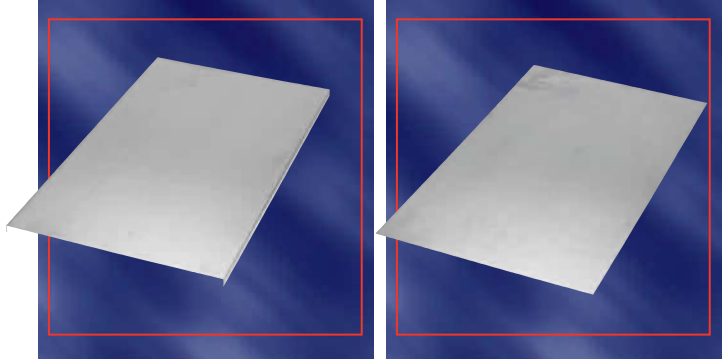
Cover mounting hardware must be ordered separately.

Solid Covers

- These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange.

Flanged covers have 1/2" flange.

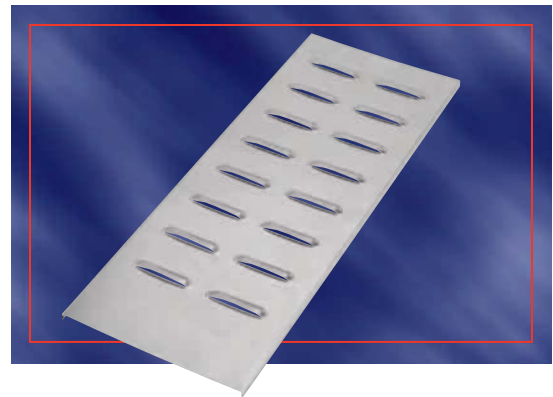
Cover mounting hardware must be ordered separately.



Ventilated Flanged Covers

- This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.



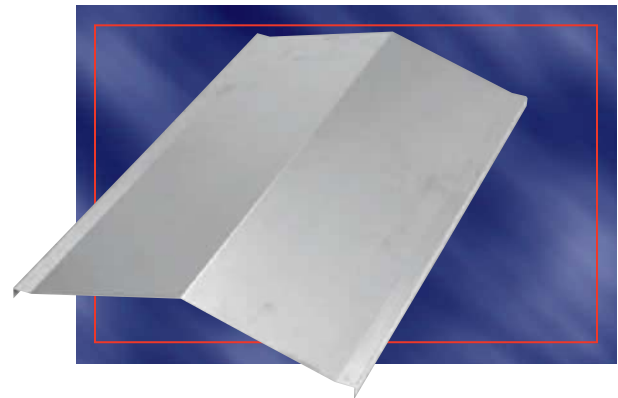
Peaked Flanged Covers

- Peaked covers offer mechanical protection reduce pooling of liquids on the cover and accumulation of snow or ice.

Peaked covers have 15° rise. Other Peak angles are available on request.

Covers greater than 12" wide available in 72" and 3m lengths only.

Cover mounting hardware must be ordered separately.



Covers

Straight Cover Number Selection

Aluminum Cable Tray

Straight Cover Number Selection

(A B W - 1 - 1 2) - S N C - 7 2

Material	Cover Series	Width	Cover Type	Length
ABW • Aluminum Accessory	1 • For tray series: AH04, AH14 2 • For tray series: AH06, AH24, AH34, AH44, AH54, AH25, AH35, AH45, AH16, AH26 3 • For tray series: AH36, AH46, AH56, AH66 AH27, AH37	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover *PFC • Peaked Flanged Cover	72 • (72") 144 • (12ft) 3 • (3 m)

* Peaked covers greater than 12" wide available in 72" and 3m lengths only.

Fitting Cover Number Selection

A U W - 1 2 - S N C - H B 9 0 - 2 4

Material	Fitting Style	Width	Cover Type	Fitting Type	Degree	Radius
A • Aluminum	U • U-Beam H • H-Beam	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	HB • Horizontal Bend VI • Vertical Inside Bend	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")

Fitting Cover Number Selection

A U W - 1 8 - 1 2 - S N C - R T - 1 2

Material	Fitting Style	Width 1	Width 2	Cover Type	Fitting Type	Radius*
A • Aluminum	U • U-Beam H • H-Beam	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	RT • Horizontal Reduce Tee ET • Horizontal Expand Tee EX • Horizontal Expand Cross HSR • Horizontal Straight Reducer HLR • Horizontal Left Reducer HRR • Horizontal Right Reducer HT • Horizontal Tee HX • Horizontal Cross VTU • Vertical Tee Up HYR • Horizontal Wye Right HYL • Horizontal Wye Left	12 • (12") 24 • (24") 36 • (36") 48 • (48")

NOTE: For ET and EX, W2 > W1. For RT, HSR, HLR, HRR, W1 > W2.

* Radius not required for HSR, HLR, HRR, HYR, HYL

Note: For Peaked fitting covers refer to pages 220 to 222

Covers

Fitting Cover Number Selection

Aluminum Cable Tray

Fitting Cover Number Selection							
A U W - 4 - 1 2 - S N C - V O 9 0 - 2 4							
Material	Fitting Style	Siderail Height	Width	Cover Type	Fitting Type	* Degree	Radius
A • Aluminum	U • U-Beam H • H-Beam	4 • (4") 5 • (5") 6 • (6") 7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	VO • Vertical Outside Bend VTD • Vertical Tee Down CS • Cable Support	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")

* Not required for VTD nor for CS.

Note: For Peaked fitting covers refer to page 220 to 222

Aluminum Cable Tray

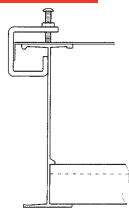
Accessories For Covers

Quantity of Standard Cover Clamps Required

Straight section (6 ft.)	4 pcs.
Straight section (12 ft./ 3m)	6 pcs.
Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs
Crosses	8 pcs.

Note: When using the Heavy Duty Cover Clamp, only half the quantity of pieces are required.

Economical Cover Clamp



Rigid indoor cover clamp for flat and flanged covers.

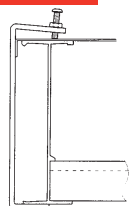
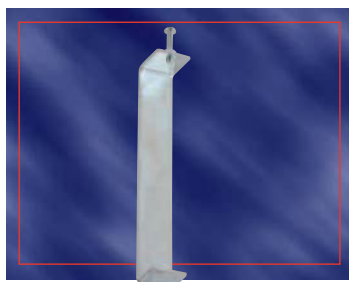
Catalogue Number	Material	Siderail Height
ABW-SCC	Zinc Plated Steel	All Sizes

Cannot be used with U-Style fittings.
Can be used with straights and AH fittings only.

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Universal Fitting Cover Clamp



Rigid indoor cover clamp for flat and flanged covers.

Catalogue Number	Material	Siderail Height
ABW(*)FCC	Zinc Plated Steel	4" 5" 6" 7"

(*) Insert siderail height

Heavy Duty Cover Clamp



Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.

Catalogue Number	Material	Siderail Height	*Width of Tray
ABW4(*)HCC	Aluminum	4"	06"
ABW5(*)HCC		5"	09"
ABW6(*)HCC		6"	12"
ABW7(*)HCC		7"	18"
			24"
			30"
			36"
			42"

(*) Insert width of tray

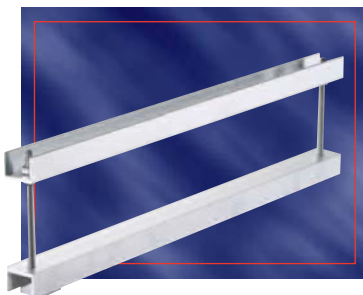
IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Accessories For Covers

Aluminum Cable Tray

Extreme Heavy Duty Cover Clamp



Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.

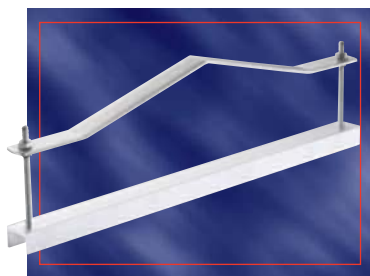
Catalogue Number	Material	Siderail Height	*Width of Tray
ABW4(*)ECC	Aluminum	4"	06"
ABW5(*)ECC		5"	09"
ABW6(*)ECC		6"	12"
ABW7(*)ECC		7"	18"
			24"
			30"
			36"
			42"

(*) Insert width of tray

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Heavy Duty Peaked Cover Clamp



Wraparound design formed to fit peaked cover for outdoor applications. Hardware included.

Catalogue Number	Material	Siderail Height	*Width of Tray
ABW4(*)HPC	Aluminum	4"	06"
ABW5(*)HPC		5"	09"
ABW6(*)HPC		6"	12"
ABW7(*)HPC		7"	18"
			24"
			30"
			36"
			42"

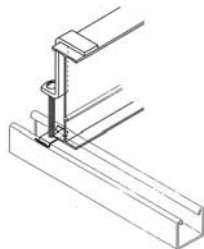
(*) Insert width of tray

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Aluminum
Accessories

Combination Hold Down Cover Clamp



Designed to secure flat and flanged covers with hold down feature.

Catalogue Number	Material	Siderail Height
ABW-4-CCC	Aluminum	4"
ABW-5-CCC		5"
ABW-6-CCC		6"
ABW-7-CCC		7"

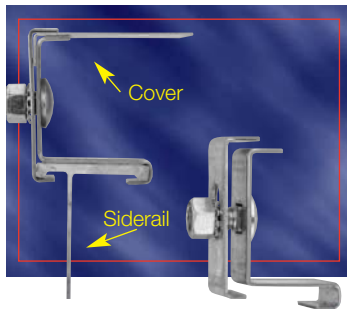
IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Aluminum Cable Tray

Accessories For Covers

Raised Cover Clamp



Designed to raise cover above tray for added ventilation.

Catalogue Number	Material	*Cover Series	+Cover Offset
ABW(*) (+) RCC	Zinc Plated Steel	1, 2, 3	1" 2" 3"

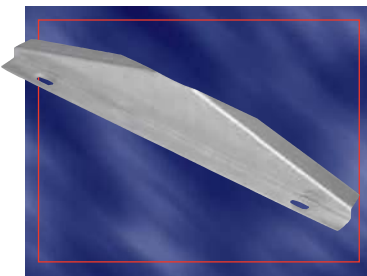
(*) Cover series

(+) Cover offset

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Peaked End Cap



Used for transition between peaked covers to straight covers.

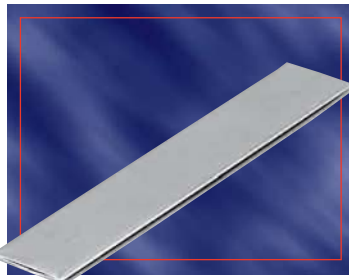
Catalogue Number	Material	*Width of Tray
ABW(*) PEC	Aluminum	6" 9" 12" 18" 24" 30" 36" 42"

(*) Width of tray

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Cover Joint Strip



Strip used for joining covers end to end.

Catalogue Number	Material	*Width of Tray
ABW(*) SCS	Plastic	6" 9" 12" 18" 24" 30" 36" 42"

(*) Width of Tray

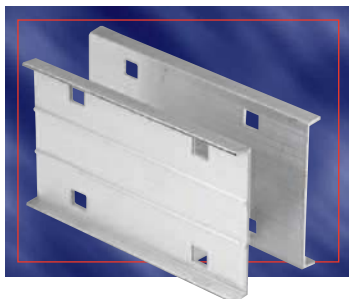
IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Accessories Splice Plates

Aluminum Cable Tray

Snap-In Splice Plate



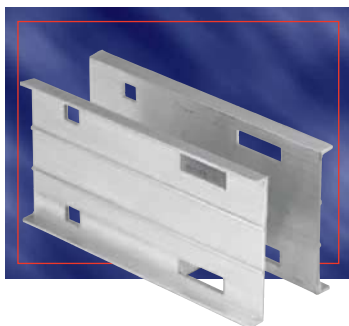
Designed to lock into place for easy alignment and installation.

Packaged in pairs with zinc plated hardware.

Provided as standard with each straight and/or fitting.

Catalogue Number	Material	Siderail Height
ABW-4-SSP	Aluminum	4"
ABW-5-SSP		5"
ABW-6-SSP		6"
ABW-7-SSP		7"

Snap-In Expansion Splice Plate

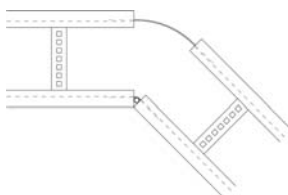
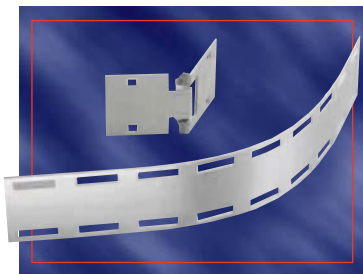


Allows for a 1" expansion or contraction of tray system.

Packaged in pairs with zinc plated hardware.

Catalogue Number	Material	Siderail Height
ABW-4-ESP	Aluminum	4"
ABW-5-ESP		5"
ABW-6-ESP		6"
ABW-7-ESP		7"

Horizontal Adjustable Plate



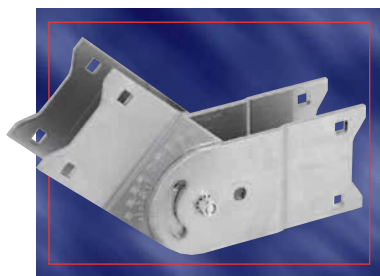
Adjustable hinge plates provide maximum horizontal installation flexibility.

Furnished in pairs with hardware.

Catalogue Number	Material	*Siderail Height	For Tray Widths
ABW(*)24HSP	Aluminum	4"	6" to 24" inclusive
		5"	
		6"	
		7"	
ABW(*)42HSP	Aluminum	4"	30" to 42" inclusive
		5"	
		6"	
		7"	

(*) Tray Height.

Vertical Adjustable Plate



Hinged vertical plates provide maximum flexibility for changes in elevation.

Furnished in pairs with hardware.

Catalogue Number	Material	Siderail Height
ABW-4-VSP	Aluminum	4"
ABW-5-VSP		5"
ABW-6-VSP		6"
ABW-7-VSP		7"

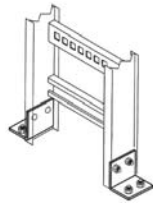
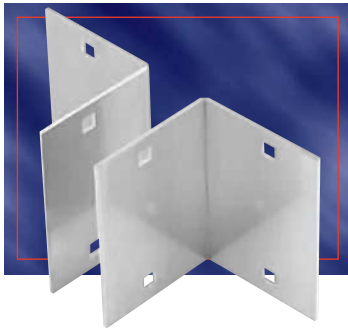
IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Aluminum Cable Tray

Accessories Splice Plates

Box to Tray Plates



Designed to secure tray to electrical panels or boxes, walls or end supports.

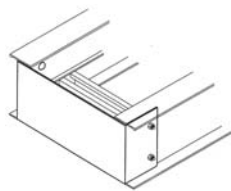
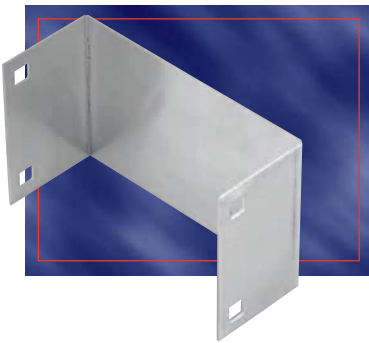
Furnished in pairs with hardware.

Catalogue Number	Material	Siderail Height
ABW-4-BSP	Aluminum	4"
ABW-5-BSP		5"
ABW-6-BSP		6"
ABW-7-BSP		7"

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Closure End Plate



Provides closure for any tray end.

Packaged with hardware.

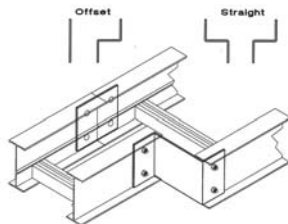
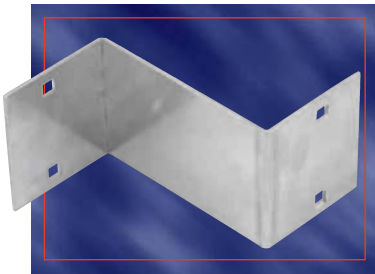
Catalogue Number	Material	Siderail Height	*Widths of Tray
ABW-4(*)-CEP	Aluminum	4"	06"
ABW-5(*)-CEP		5"	09"
ABW-6(*)-CEP		6"	12"
ABW-7(*)-CEP		7"	18"
			24"
			30"
			36"
			42"

(*) Insert width.

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Reducing Splice Plate



Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction.

Packaged with hardware.

Catalogue Number	Material	Siderail Height	Reduction (inches)
ABW-4(*)-RSP	Aluminum	4"	1-1/2, 3, 4-1/2, 6, 7-1/2, 9,
ABW-5(*)-RSP		5"	10-1/2, 12, 13-1/2, 15
ABW-6(*)-RSP		6"	16-1/2, 18, 21, 24, 27
ABW-7(*)-RSP		7"	30, 33, 36

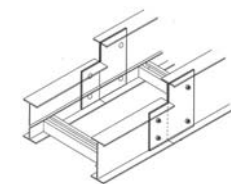
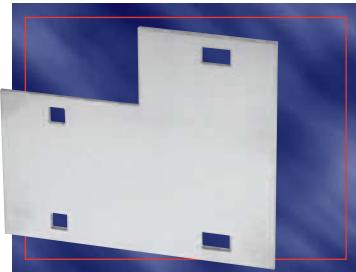
NOTE: (*) For offset reduction: insert width to be reduced

For straight reduction: insert 1/2 width to be reduced (2 required)

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Step Down Splice Plate



Connects siderails of different heights.

Hardware included.

Catalogue Number	Material	Siderail Height
ABW(*)(**)SDS	Aluminum	4"
		5"
		6"
		7"

(*) Siderail Height 1

(**) Siderail Height 2

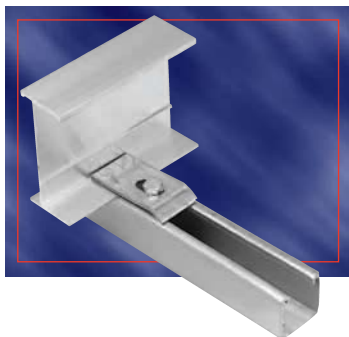
NOTE: Siderail Height 1 is greater than Siderail Height 2.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Accessories

Aluminum Cable Tray

Standard Hold Down Clamp



Designed for most indoor installations.

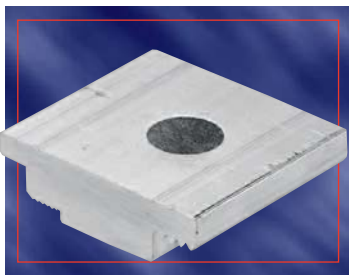
Easy to use and install.

Order 3/8" hardware separately.

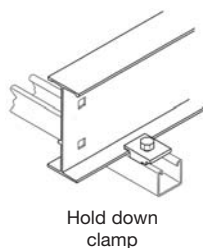
Catalogue Number	Material
SPW-SHC	Zinc Plated Steel
SSW-SHC	316 Stainless

Note: Add HDW to part number to be supplied complete with hardware.
i.e.: SPW-SHC-HDW

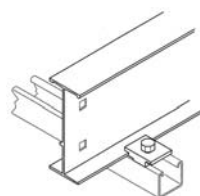
Combination Hold Down / Expansion Guide Clamp



Order 3/8" hardware separately.



Hold down clamp

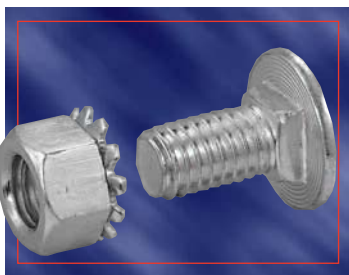


Catalogue Number	Material
ABW-HEC	Aluminum

IMPORTANT NOTE:
"B" in catalogue number indicates this accessory can be used for both styles.

Expansion Guide

Aluminum Tray Hardware

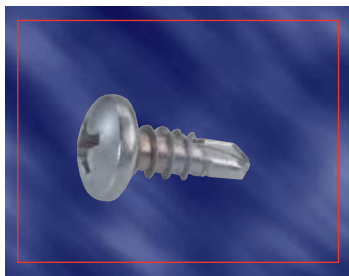


Square shoulder self-positioning carriage bolt.

Catalogue Number	Material	Description
SPW-1/4-CB	Zinc Plated Steel	1/4" Carriage Bolt
SPW-3/8-CB	Zinc Plated Steel	3/8" Carriage Bolt
SPW-1/4-HN	Zinc Plated Steel	1/4" Hex. Nut
SPW-3/8-HN	Zinc Plated Steel	3/8" Hex. Nut
SSW-3/8-CB	316 Stainless	3/8" Carriage Bolt
SSW-3/8-HN	316 Stainless	3/8" Hex. Nut
SSW-3/8-HWK*	316 Stainless	316 Stainless Steel Hardware Kit

* Contains 8 bolts, 8 nuts and 8 lockwashers.

Self-Drilling Self-Tapping Screw

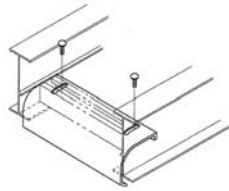


Catalogue Number	Material	Description
SPW-10-SCR	Zinc Plated Steel	Self-Drilling Self-Tapping Screw

Aluminum Cable Tray

Accessories Cable Protection

Drop-Out



Designed to provide a smooth radiused surface at any position on the tray or trough bottom.

Drop-Outs are easily attached using hardware provided.

Standard radius 4".

Catalogue Number	Description / Material	*Widths of Tray
ABW(*)DO	For ladder and ventilated tray / Aluminum	06"
		09"
		12"
		18"
ABW(*)DOS	For solid tray / Aluminum	24"
		30"
		36"
		42"

(*) Width of Tray

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Wall Penetration Sleeve



Designed to pass through walls and fire walls.

Hardware included.

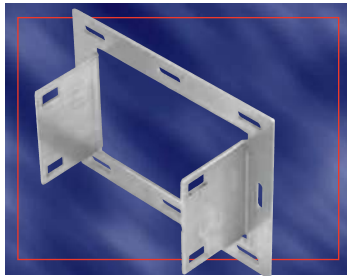
IMPORTANT:
Not fire rated.
Fire stop not included.

Catalogue Number	Material	*Siderail Height	**Widths of Tray
ABW(*)(**)WPS	Aluminum	4"	06"
		5"	09"
		6"	12"
		7"	18"
			24"
			30"
			36"
			42"

(*) Siderail Height

(**) Width

Frame Type Tray to Box Plate



Designed to secure tray to electrical enclosures and panels.

Hardware included.

Catalogue Number	Material	*Siderail Heights	**Widths of Tray
ABW(*)(**)FBP	Aluminum	4"	06"
		5"	09"
		6"	12"
		7"	18"
			24"
			30"
			36"
			42"

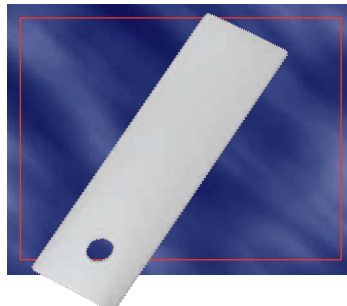
(*) Siderail Height

(**) Width

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Nylon Expansion Pad



Allows for thermal expansion and contraction of cable trays over supports.

Catalogue Number	Material
ABW-NSP	Nylon

IMPORTANT NOTE:

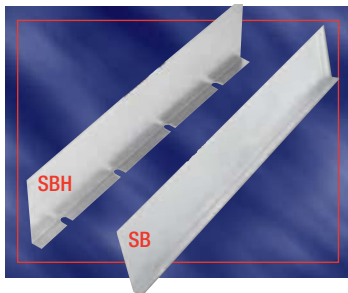
"B" in catalogue number indicates this accessory can be used for both styles.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Accessories Barrier Strips

Aluminum Cable Tray

Barrier Strips



Aluminum barrier strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware.

72" barriers are flexible for use with horizontal fittings.

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

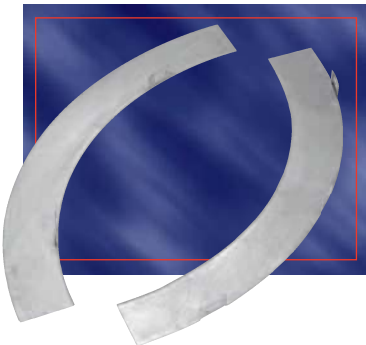
Catalogue Number	Siderail Height	*Length
ABW-4-SBH-72	4"	72"
ABW-5-SBH-72	5"	
ABW-6-SBH-72	6"	
ABW-7-SBH-72	7"	
ABW-4-SB-(*)	4"	144"
ABW-5-SB-(*)	5"	3m
ABW-6-SB-(*)	6"	
ABW-7-SB-(*)	7"	

NOTE: 72" barriers provided with 3 SPW10SCR

144", 3m barriers provided with 6 SPW10SCR

(*) Insert length

Inside / Outside Vertical Bend Barriers



Preformed to fit all standard aluminum vertical bends.

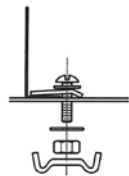
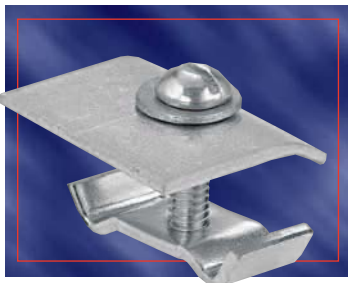
Provided with hardware.

Inside Bend Catalogue Number	Outside Bend Catalogue Number	Siderail Height
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	4"
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	5"
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	6"
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	7"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	4"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	5"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	6"
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	7"

(**) Insert Bend Angle (+) Insert Bend Radius (*) Siderail Height.

Aluminum
Accessories

Barrier Strip Clamp



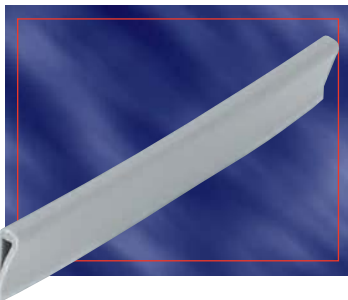
Alternate mounting method for barrier strip mounting.

Barrier strip clamps mount barrier strips to ladder rungs and ventilated bottoms.

Complete mounting hardware supplied.

Catalogue Number	Material
SPW-BSC	Zinc Plated Steel
SSW-BSC	Stainless Steel 316

Barrier Strip Splice



Alignment splice for joining connecting barrier strips.

Catalogue Number	Material
ABW-BSS	Plastic

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Aluminum Cable Tray

Accessories

Cable Tray Guide

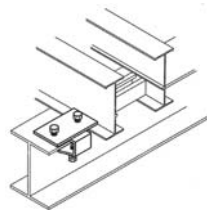


Expansion guide for single or double runs of cable tray.

No need to field drill of channel or I-beam.

Catalogue Number	Material
SPW-CTG	Zinc Plated Steel
SHW-CTG	Steel Hot Dip

Cable Tray Clamp

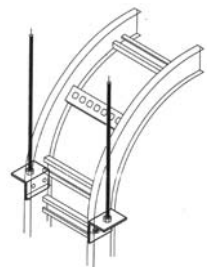


Clamps for single run of cable tray.

No need to field drill the channel or I-beam.

Catalogue Number	Material
SPW-CTC	Zinc Plated Steel
SHW-CTC	Steel Hot Dip

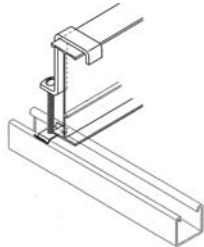
Vertical Tray Hanger



Catalogue Number	Material	*Siderail Height
ABW(*)VTH	Aluminum	4"
		5"
		6"
		7"

* Insert siderail height

Hold Down Clamp



Designed to secure cable tray to support system.

Catalogue Number	Material	*Siderail Height
ABW(*)HDC	Aluminum	4"
		5"
		6"
		7"

Note: Hardware included

(*) Insert siderail height.

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

T&B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.



Steel Cable Tray

Straight Length Tray Bottom Types Available Ladder, Ventilated and Solid Trough

Ladder

- Formed siderails are welded to 1-5/8" wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap® cable tie slots on 1" centers



Ventilated

- A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plan area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102 mm (4 in) in the direction parallel to the tray side rails (rung to rung).



Solid Trough

- Solid sheet welded to steel siderails below rungs. This design offers added cable protection.



Straight Section Number Selection

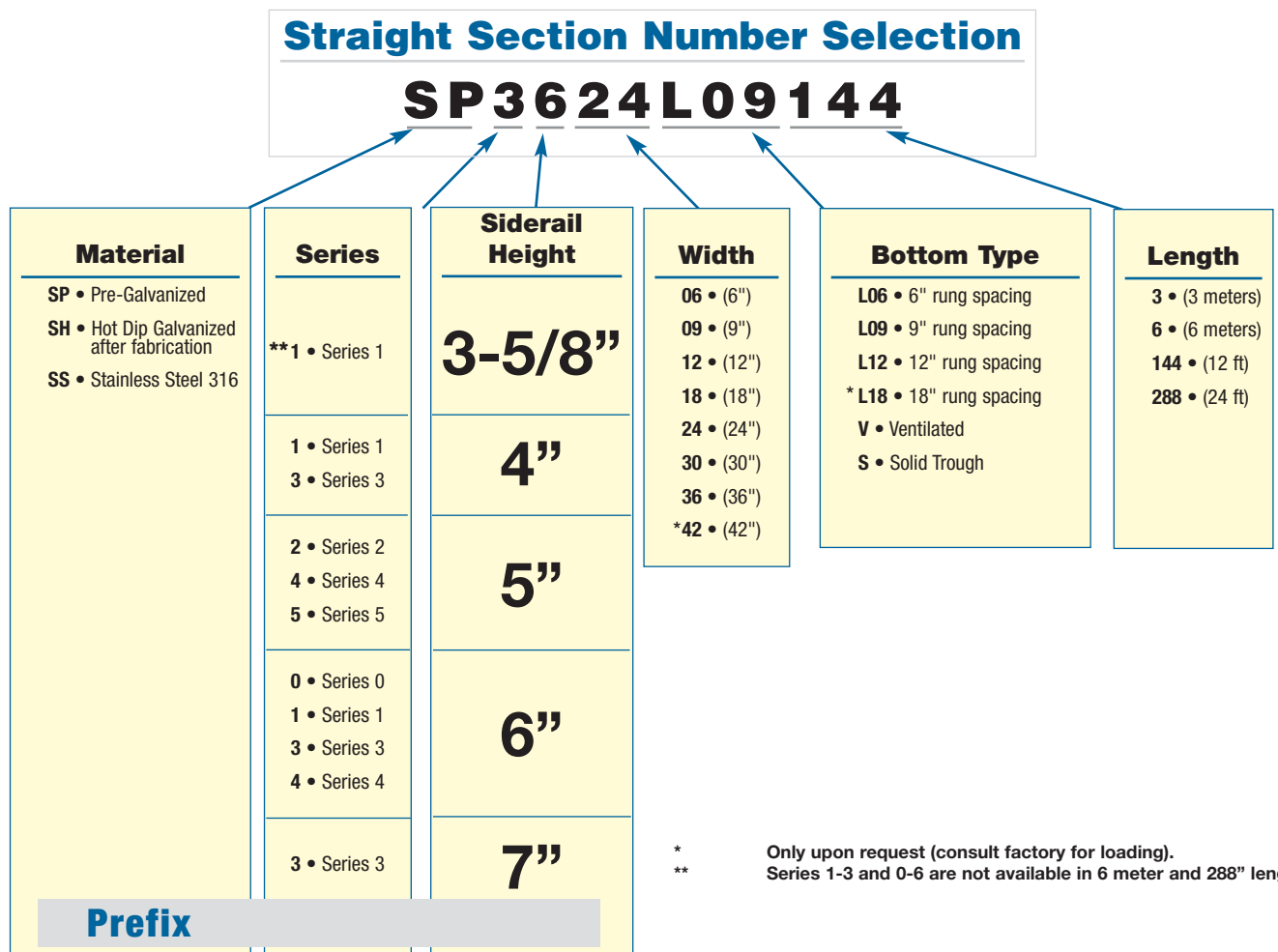
Steel Cable Tray

How to create part numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page 10 in the technical section.

Methods

1. Select the material best suited to your environment. Refer to technical section page 10.
2. Determine the series tray using the NEMA/CSA Load/Span Designations page 11, and Sizing Cable Tray page 13.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page 13.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.



Steel Cable Tray

3-5/8" Straight Sections Series 1-3

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SP1324L09144

Material	Series	Siderail Height	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	1 • Series 1	3 • (3-5/8")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") *42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	3 • (3 meters) 144 • (12 ft)

Prefix

* Only upon request (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 128 to 142

		SUPPORT SPAN (Feet)							
SERIES		6	8	10	12	14	16	18	20
SP1-3	Load (lb/ft)	200	112.5	72	50	-	-	-	-
SH1-3	Deflection (in.)	0.250	0.445	0.695	1.001	-	-	-	-
SS1-3	Deflection Factor	0.0013	0.0040	0.0097	0.0097	-	-	-	-

3-5/8" Straight Sections Series 1-3

Ladder, Ventilated and Solid Trough

Steel Cable Tray



Steel
Straights

SP1-3, SH1-3, SS1-3	
W (in.)	WI (in.)
6	4.5
9	7.5
12	10.5
18	16.5
24	22.5
30	28.5
36	34.5
42	40.5

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
SP1-3		$I_x = 0.804 \text{ in}^4$ $S_x = 0.444 \text{ in}^2$ $\text{Area} = 0.488 \text{ in}^2$	12A	C/3M	UL Cross Sectional Area : 0.40 in^2
SH1-3					
SS1-3					

Steel Cable Tray

4" Straight Sections Series 1-4, 3-4 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SP3424L09144

Material	Series	Siderail Height	Width	Bottom Type	**Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	1 • Series 1 3 • Series 3	4 • (4")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") *42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft) 288 • (24 ft)

Prefix

* Only upon request (consult factory for loading).

** Series 1-4 not available in 6 meters or 24 foot lengths.

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

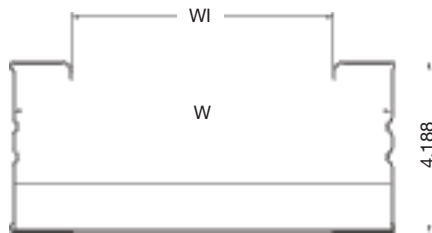
For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 128 to 142

		SUPPORT SPAN (Feet)							
SERIES		6	8	10	12	14	16	18	20
SP1-4	Load (lb/ft)	420	236	151	105	—	—	—	—
SH1-4	Deflection (in.)	0.420	0.473	0.756	1.155	—	—	—	—
SS1-4	Deflection Factor	0.001	0.002	0.005	0.011	—	—	—	—
SP3-4	Load (lb/ft)	956	538	344	239	176	134	106	86
SH3-4	Deflection (in.)	0.478	0.538	1.032	1.672	2.282	3.091	3.928	4.816
SS3-4	Deflection Factor	0.0005	0.001	0.003	0.007	0.013	0.023	0.037	0.056

4" Straight Sections Series 1-4, 3-4 Ladder, Ventilated and Solid Trough

Steel Cable Tray



Steel
Straights

SP1-4, SH1-4, SS1-4 SP3-4, SH3-4, SS3-4	
W (in.)	WI (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
SP1-4		$I_x = 1.974 \text{ in}^4$ $S_x = 0.788 \text{ in}^3$	12C	C/3M	UL Cross Sectional Area : 0.70 in^2
SH1-4					
SS1-4					
SP3-4		$I_x = 2.752 \text{ in}^4$ $S_x = 1.268 \text{ in}^3$	20A	D/6M	UL Cross Sectional Area : 1.00 in^2
SH3-4					
SS3-4					

Steel Cable Tray

5" Straight Sections Series 2-5, 4-5, 5-5 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SP3524L09144

Material	Series	Siderail Height	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	2 • Series 2 4 • Series 4 5 • Series 5	5 • (5")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") *42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing *L18 • 18" rung spacing V • Ventilated S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft) 288 • (24 ft)

Prefix

* Only upon request (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

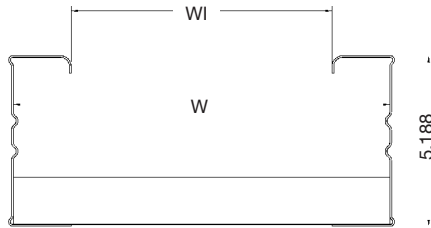
Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.
For Fittings consult pages 128 to 142

		SUPPORT SPAN (Feet)							
SERIES		6	8	10	12	14	16	18	20
SP2-5	Load (lb/ft)	556	313	200	139	102	78	62	50
SH2-5	Deflection (in.)	0.193	0.344	0.537	0.773	1.052	1.375	1.740	2.148
SS2-5	Deflection Factor	0.0003	0.0011	0.0027	0.0056	0.0103	0.0176	0.0282	0.0430
SP4-5	Load (lb/ft)	833	469	298	208	153	117	92	75
SH4-5	Deflection (in.)	0.223	0.397	0.617	0.894	1.217	1.589	1.998	2.483
SS4-5	Deflection Factor	0.003	0.0008	0.0021	0.0043	0.0079	0.0136	0.0217	0.0331
SP5-5	Load (lb/ft)	111	625	298	278	204	156	92	100
SH5-5	Deflection (in.)	0.241	0.429	0.499	0.964	1.312	1.714	.617	2.678
SS5-5	Deflection Factor	0.0002	0.0007	0.0017	0.0035	0.0064	0.0110	0.0176	0.0268

5" Straight Sections Series 2-5, 4-5, 5-5 Ladder, Ventilated and Solid Trough

Steel Cable Tray



Steel
Straights

**SP2-5, SH2-5, SS2-5
SP4-5, SH4-5, SS4-5
SP5-5, SH5-5, SS5-5**

W (in.)	WI (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
SP2-5		Ix = 2.89 in ⁴ Sx = 1.09 in ² Area = 0.778 in ²	20A	D/6M	UL Cross Sectional Area : 0.70 in ²
SH2-5					
SS2-5					
SP4-5		Ix = 3.75 in ⁴ Sx = 1.40 in ² Area = 1.018 in ²	20B	E/6M	UL Cross Sectional Area : 1.00 in ²
SH4-5					
SS4-5					
SP5-5		Ix = 4.635 in ⁴ Sx = 1.732 in ² Area = 1.24 in ²	20C	-	UL Cross Sectional Area : 1.00 in ²
SH5-5					
SS5-5					

Steel Cable Tray

6" Straight Sections
Series 0-6, 1-6, 3-6, 4-6
 Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SP3624L09144

Material	Series	Siderail Height	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	0 • Series 0 1 • Series 1 3 • Series 3 4 • Series 4	6 • (6")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") *42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing *L18 • 18" rung spacing V • Ventilated S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft) 288 • (24 ft)

Prefix

* Only upon request (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

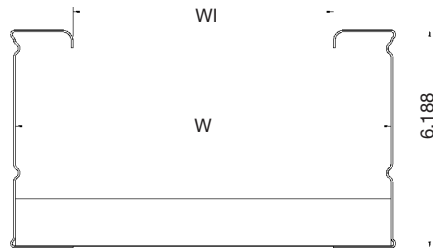
Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.
 For Fittings consult pages 128 to 142

		SUPPORT SPAN (Feet)							
SERIES		6	8	10	12	14	16	18	20
SP0-6	Load (lb/ft)	424	239	153	106	—	—	—	—
SH0-6	Deflection (in.)	0.120	0.214	0.335	0.482	—	—	—	—
SS0-6	Deflection Factor	0.003	0.0009	0.0022	0.0045	—	—	—	—
SP1-6	Load (lb/ft)	556	313	200	139	102	78	62	50
SH1-6	Deflection (in.)	0.126	0.224	0.349	0.503	0.685	0.895	1.132	1.398
SS1-6	Deflection Factor	0.0002	0.0007	0.0017	0.0036	0.0067	0.0115	0.0183	0.0280
SP3-6	Load (lb/ft)	833	469	300	208	153	117	93	75
SH3-6	Deflection (in.)	0.156	0.277	0.433	0.624	0.849	1.109	1.404	1.733
SS3-6	Deflection Factor	0.0002	0.0006	0.0014	0.0030	0.0055	0.0095	0.0152	0.0231
SP4-6	Load (lb/ft)	1289	725	464	322	237	181	143	116
SH4-6	Deflection (in.)	0.181	0.321	0.502	0.723	0.984	1.285	1.626	2.008
SS4-6	Deflection Factor	0.0001	0.0004	0.0011	0.0022	0.0042	0.0071	0.0114	0.0173

6" Straight Sections Series 0-6, 1-6, 3-6, 4-6 Ladder, Ventilated and Solid Trough

Steel Cable Tray



Steel
Straights

SP0-6, SH0-6, SS0-6
SP1-6, SH1-6, SS1-6
SP3-6, SH3-6, SS3-6
SP4-6, SH4-6, SS4-6

W (in.)	WI (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
SP0-6		Ix = 3.54 in ⁴ Sx = 1.11 in ² Area = 0.694 in ²	12C	C/3M	UL Cross Sectional Area : 0.70 in ²
SH0-6					
SS0-6					
SP1-6		Ix = 4.44 in ⁴ Sx = 1.39 in ² Area = 0.874 in ²	20A	D/6M	UL Cross Sectional Area : 0.70 in ²
SH1-6					
SS1-6					
SP3-6		Ix = 5.373 in ⁴ Sx = 1.70 in ² Area = 1.40 in ²	20B	E/6M	UL Cross Sectional Area : 1.00 in ²
SH3-6					
SS3-6					
SP4-6		Ix = 7.173 in ⁴ Sx = 2.250 in ² Area = 1.40 in ²	20C	-	UL Cross Sectional Area : 1.00 in ²
SH4-6					
SS4-6					

Steel Cable Tray

7" Straight Sections Series 3-7

Ladder, Ventilated and Solid Trough

Straight Section Number Selection

SP3724L09144

Material	Series	Siderail Height	Width	Bottom Type	Length
SP • Pre-Galvanized SH • Hot Dip Galvanized after fabrication SS • Stainless Steel 316	3 • Series 3	7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") *42 • (42")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing * L18 • 18" rung spacing V • Ventilated S • Solid Trough	3 • (3 meters) 6 • (6 meters) 144 • (12 ft) 288 • (24 ft)

Prefix

* Only upon request (consult factory for loading).

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult page 128 to 142

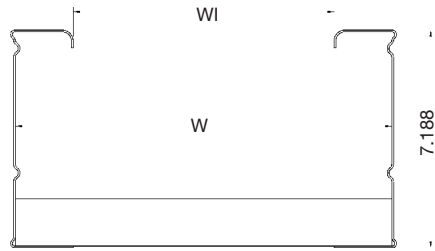
SERIES		SUPPORT SPAN (Feet)							
		6	8	10	12	14	16	18	20
SP3-7	Load (lb/ft)	1333	750	480	333	245	188	148	120
SH3-7	Deflection (in.)	0.133	0.225	0.480	0.667	0.735	1.125	1.333	1.680
SS3-7	Deflection Factor	0.0001	0.0003	0.001	0.002	0.003	0.006	0.009	0.014

7" Straight Sections

Series 3-7

Ladder, Ventilated and Solid Trough

Steel Cable Tray



Steel
Straights

SP3-7, SH3-7, SS3-7	
W (in.)	WI (in.)
6	3.34
9	6.34
12	9.34
18	15.34
24	21.34
30	27.34
36	33.34
42	39.34

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
SP3-7		$I_x = 10.411 \text{ in}^4$ $S_x = 2.820 \text{ in}^3$ $\text{Area} = 1.54 \text{ in}^2$	20C	E	UL Cross Sectional Area : 1.50 in ²
SH3-7					
SS3-7					

Fitting Number Selection

SPF624LV06012

Fitting Material	Siderail Depth	Width	Bottom Type	Fitting Type	**Angle	†Nominal Radius
SPF • Pre-Galvanized Fittings SHF • Hot Dip Galvanized Fittings SSF • Stainless Steel 316	3 • (3-5/8") 4 • (4") 5 • (5") 6 • (6") 7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	* L • Ladder *** V • Ventilated **** S • Solid Trough	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VO • Vertical Outside Bend VTD • Vertical Tee Down VTU • Vertical Tee Up HYR • Horizontal Wye Right HYL • Horizontal Wye Left RT • Horizontal Reducing Tee ET • Horizontal Expanding Tee EX • Horiz. Expand Cross HLR • Horizontal Left Reducer HSR • Horizontal Straight Reducer HRR • Horizontal Right Reducer CS • Cable Support Fitting	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")

** Angle is required for HB, VI, VO only.

† Radius is not required for the following Fitting Types:
HYR, HYL, HLR, HRR, HSR

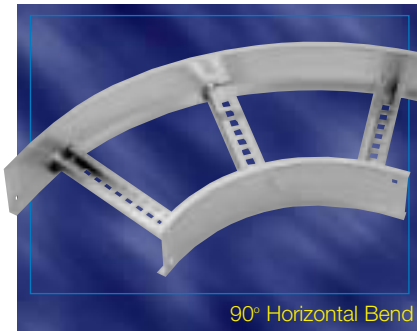
* Manufactured with 9" rung spacing measured at the center line of fitting.

*** Manufactured with 4" edge to edge rung spacing measured at the center line of fitting.

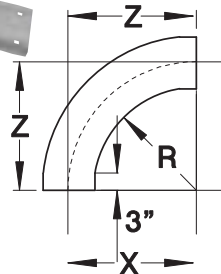
**** Manufactured with flat sheet inserted under rungs with 9" rung spacing measured at the center line of fitting.

Horizontal Bends 90° / 60°

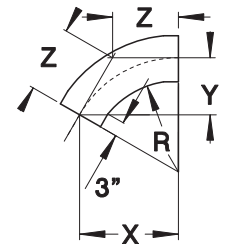
Steel Cable Tray



90° Horizontal Bend



60° Horizontal Bend



Part Numbering System

SPF 4 24 L HB90 12

Prefix
SPF,SHF,SSF
Width
Siderail
Depth
Fitting
Type
Bottom
Style
Nominal
Radius
Angle

Selection Guide

Prefix: SPF(Pre-Galv.),SHF(Hot Dip),SSF(Stainless Steel)

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 90°, 60°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 3", 4", 5", 6", 7"

Dimension / Information

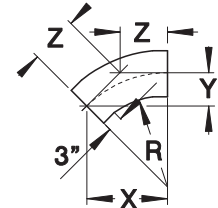
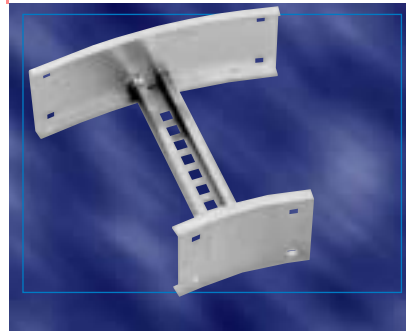
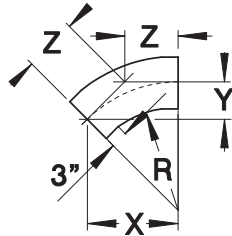
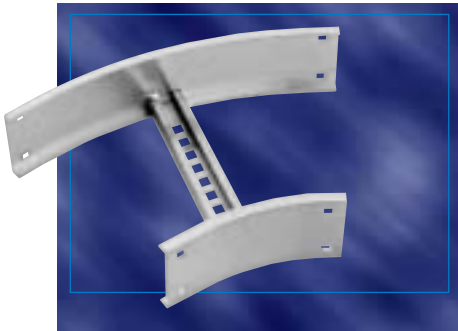
90° Horizontal Bend					
Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	Prefix(†)-06-(*)-HB90-12	15	15	15
	9	Prefix(†)-09-(*)-HB90-12	16-1/2	16-1/2	16-1/2
	12	Prefix(†)-12-(*)-HB90-12	18	18	18
	18	Prefix(†)-18-(*)-HB90-12	21	21	21
	24	Prefix(†)-24-(*)-HB90-12	24	24	24
	30	Prefix(†)-30-(*)-HB90-12	27	27	27
24	36	Prefix(†)-36-(*)-HB90-12	30	30	30
	42	Prefix(†)-42-(*)-HB90-12	33	33	33
	6	Prefix(†)-06-(*)-HB90-24	27	27	17
	9	Prefix(†)-09-(*)-HB90-24	28-1/2	28-1/2	28-1/2
	12	Prefix(†)-12-(*)-HB90-24	30	30	30
	18	Prefix(†)-18-(*)-HB90-24	33	33	33
36	24	Prefix(†)-24-(*)-HB90-24	36	36	36
	30	Prefix(†)-30-(*)-HB90-24	39	39	39
	36	Prefix(†)-36-(*)-HB90-24	42	42	42
	42	Prefix(†)-42-(*)-HB90-24	45	45	45
	6	Prefix(†)-06-(*)-HB90-36	39	39	39
	9	Prefix(†)-09-(*)-HB90-36	40-1/2	40-1/2	40-1/2
48	12	Prefix(†)-12-(*)-HB90-36	42	42	42
	18	Prefix(†)-18-(*)-HB90-36	45	45	45
	24	Prefix(†)-24-(*)-HB90-36	48	48	48
	30	Prefix(†)-30-(*)-HB90-36	51	51	51
	36	Prefix(†)-36-(*)-HB90-36	54	54	54
	42	Prefix(†)-42-(*)-HB90-36	57	57	57
	6	Prefix(†)-06-(*)-HB90-48	51	51	51
	9	Prefix(†)-09-(*)-HB90-48	52-1/2	52-1/2	52-1/2
	12	Prefix(†)-12-(*)-HB90-48	54	54	54
	18	Prefix(†)-18-(*)-HB90-48	57	57	57
	24	Prefix(†)-24-(*)-HB90-48	60	60	60
	30	Prefix(†)-30-(*)-HB90-48	63	63	63

60° Horizontal Bend					
Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	6	Prefix(†)-06-(*)-HB60-12	14-7/8	8-5/8	9-15/16
	9	Prefix(†)-09-(*)-HB60-12	16-3/16	9-3/8	10-13/16
	12	Prefix(†)-12-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	18	Prefix(†)-18-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	24	Prefix(†)-24-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	30	Prefix(†)-30-(*)-HB60-12	25-5/16	14-5/8	16-7/8
24	36	Prefix(†)-36-(*)-HB60-12	27-7/8	16-1/8	18-9/16
	42	Prefix(†)-42-(*)-HB60-12	30-1/2	17-5/8	20-5/16
	6	Prefix(†)-06-(*)-HB60-24	25-5/16	14-5/8	16-7/8
	9	Prefix(†)-09-(*)-HB60-24	26-9/16	15-3/8	17-3/4
	12	Prefix(†)-12-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	18	Prefix(†)-18-(*)-HB60-24	30-1/2	17-5/8	20-5/16
36	24	Prefix(†)-24-(*)-HB60-24	33-1/16	19-1/8	22-1/16
	30	Prefix(†)-30-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	36	Prefix(†)-36-(*)-HB60-24	38-1/4	22-1/8	25-1/2
	42	Prefix(†)-42-(*)-HB60-24	40-7/8	23-5/8	27-1/4
	6	Prefix(†)-06-(*)-HB60-36	35-11/16	20-5/8	23-13/16
	9	Prefix(†)-09-(*)-HB60-36	37	21-3/8	24-5/8
48	12	Prefix(†)-12-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	18	Prefix(†)-18-(*)-HB60-36	40-7/8	23-5/8	27-2/8
	24	Prefix(†)-24-(*)-HB60-36	43-1/2	25-1/8	29
	30	Prefix(†)-30-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	36	Prefix(†)-36-(*)-HB60-36	48-11/16	28-1/8	32-7/16
	42	Prefix(†)-42-(*)-HB60-36	51-1/4	29-5/8	34-3/16
	6	Prefix(†)-06-(*)-HB60-48	46-1/16	26-5/8	30-11/16
	9	Prefix(†)-09-(*)-HB60-48	47-3/8	27-3/8	31-9/16
	12	Prefix(†)-12-(*)-HB60-48	48-11/16	28-1/8	32-7/16
	18	Prefix(†)-18-(*)-HB60-48	51-4/16	29-5/8	34-3/16
	24	Prefix(†)-24-(*)-HB60-48	53-7/8	31-1/8	35-15/16
	30	Prefix(†)-30-(*)-HB60-48	56-7/16	32-5/8	37-5/8

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

Steel Cable Tray

Horizontal Bends 45° / 30°



Dimension / Information

Part Numbering System

SPF 4 24 L HB45 12

Prefix: SPF, SHF, SSF
Width: 4, 6, 9, 12, 18, 24, 30, 36, 42
Fitting Type: L (Ladder), V (Ventilated), S (Solid)
Nominal Radius: 12, 24, 36, 48
Side Rail Depth: 3", 4", 5", 6", 7"

Selection Guide

Prefix: SPF(Pre-Galv.), SHF(Hot Dip), SSF(Stainless Steel)

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 45°, 30°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 3", 4", 5", 6", 7"

45° Horizontal Bend

Nominal Radius R	Width	Catalogue Number	Dimensions		
			X	Y	Z
12	6	Prefix(†)-06-(*)-(+)HB45-12	13-5/8	5-5/8	8
	9	Prefix(†)-09-(*)-(+)HB45-12	14-11/16	6-1/16	8-9/16
	12	Prefix(†)-12-(*)-(+)HB45-12	15-3/4	6-12	9-3/16
	18	Prefix(†)-18-(*)-(+)HB45-12	17-7/8	7-3/8	10-7/16
	24	Prefix(†)-24-(*)-(+)HB45-12	20	8-1/4	11-11/16
	30	Prefix(†)-30-(*)-(+)HB45-12	22-1/16	9-1/8	12-15/16
24	36	Prefix(†)-36-(*)-(+)HB45-12	24-3/16	10	14-3/16
	42	Prefix(†)-42-(*)-(+)HB45-12	26-5/16	10-15/16	15-7/16
	6	Prefix(†)-06-(*)-(+)HB45-24	22-1/16	9-1/8	12-15/16
	9	Prefix(†)-09-(*)-(+)HB45-24	23-1/8	9-9/16	13-9/16
	12	Prefix(†)-12-(*)-(+)HB45-24	24-3/16	10	14-3/16
	18	Prefix(†)-18-(*)-(+)HB45-24	26-5/16	10-15/16	15-7/16
36	24	Prefix(†)-24-(*)-(+)HB45-24	28-7/16	11-13/16	16-11/16
	30	Prefix(†)-30-(*)-(+)HB45-24	30-9/16	12-11/16	17-15/16
	36	Prefix(†)-36-(*)-(+)HB45-24	32-11/16	13-9/16	19-1/8
	42	Prefix(†)-42-(*)-(+)HB45-24	34-13/16	14-7/16	20-3/8
	6	Prefix(†)-06-(*)-(+)HB45-36	30-9/16	12-11/16	17-15/16
	9	Prefix(†)-09-(*)-(+)HB45-36	31-5/8	13-1/8	18-9/16
48	12	Prefix(†)-12-(*)-(+)HB45-36	32-11/16	13-9/16	19-1/8
	18	Prefix(†)-18-(*)-(+)HB45-36	34-13/16	14-7/16	20-3/8
	24	Prefix(†)-24-(*)-(+)HB45-36	36-15/16	15-5/16	21-5/8
	30	Prefix(†)-30-(*)-(+)HB45-36	39-1/16	16-3/16	22-7/8
	36	Prefix(†)-36-(*)-(+)HB45-36	41-3/16	17-1/16	24-1/8
	42	Prefix(†)-42-(*)-(+)HB45-36	43-5/16	17-15/16	25-3/8
48	6	Prefix(†)-06-(*)-(+)HB45-48	39-1/16	16-3/16	22-7/8
	9	Prefix(†)-09-(*)-(+)HB45-48	40-1/8	16-3/8	23-1/2
	12	Prefix(†)-12-(*)-(+)HB45-48	41-3/16	17-1/16	24-1/8
	18	Prefix(†)-18-(*)-(+)HB45-48	43-5/16	17-15/16	25-3/8
	24	Prefix(†)-24-(*)-(+)HB45-48	45-7/16	18-13/16	26-5/8
	30	Prefix(†)-30-(*)-(+)HB45-48	47-9/16	19-11/16	27-7/8
48	36	Prefix(†)-36-(*)-(+)HB45-48	49-11/16	20-9/16	29-1/8
	42	Prefix(†)-42-(*)-(+)HB45-48	51-13/16	21-7/16	30-5/16

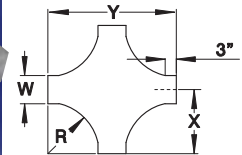
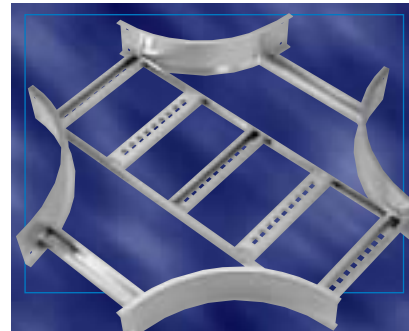
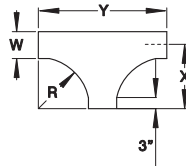
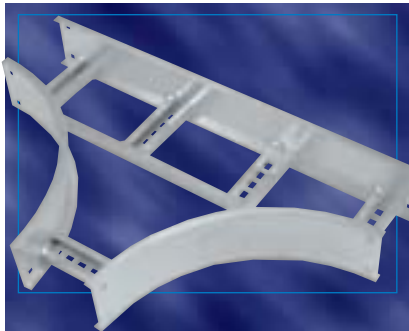
30° Horizontal Bend

Nominal Radius R	Width	Catalogue Number	Dimensions		
			X	Y	Z
12	6	Prefix(†)-06-(*)-(+)HB30-12	11-5/8	3-1/8	6-3/16
	9	Prefix(†)-09-(*)-(+)HB30-12	12-3/8	3-5/16	6-5/8
	12	Prefix(†)-12-(*)-(+)HB30-12	13-1/2	3-1/2	7
	18	Prefix(†)-18-(*)-(+)HB30-12	14-5/8	3-15/16	7-13/16
	24	Prefix(†)-24-(*)-(+)HB30-12	16-1/8	4-5/16	8-5/8
	30	Prefix(†)-30-(*)-(+)HB30-12	17-5/8	4-11/16	9-7/16
24	36	Prefix(†)-36-(*)-(+)HB30-12	19-1/8	5-1/8	10-1/4
	42	Prefix(†)-42-(*)-(+)HB30-12	20-5/8	5-1/2	11-1/16
	6	Prefix(†)-06-(*)-(+)HB30-24	17-5/8	4-11/16	9-7/16
	9	Prefix(†)-09-(*)-(+)HB30-24	18-3/8	4-15/16	9-13/16
	12	Prefix(†)-12-(*)-(+)HB30-24	19-1/8	5-2/16	10-4/16
	18	Prefix(†)-18-(*)-(+)HB30-24	20-5/8	5-8/16	11-1/16
36	24	Prefix(†)-24-(*)-(+)HB30-24	22-1/8	5-15/16	11-13/16
	30	Prefix(†)-30-(*)-(+)HB30-24	23-5/8	6-5/16	12-10/16
	36	Prefix(†)-36-(*)-(+)HB30-24	25-1/8	6-12/16	13-7/16
	42	Prefix(†)-42-(*)-(+)HB30-24	26-5/8	7-2/16	14-4/16
	6	Prefix(†)-06-(*)-(+)HB30-36	23-5/8	6-5/16	12-5/8
	9	Prefix(†)-09-(*)-(+)HB30-36	24-3/8	6-1/2	13-1/16
48	12	Prefix(†)-12-(*)-(+)HB30-36	25-1/8	6-3/4	13-7/16
	18	Prefix(†)-18-(*)-(+)HB30-36	26-5/8	7-1/4	14-1/4
	24	Prefix(†)-24-(*)-(+)HB30-36	28-1/8	7-1/2	15-1/16
	30	Prefix(†)-30-(*)-(+)HB30-36	29-5/8	7-15/16	15-7/8
	36	Prefix(†)-36-(*)-(+)HB30-36	31-1/8	8-5/16	16-11/16
	42	Prefix(†)-42-(*)-(+)HB30-36	32-5/8	8-3/4	17-1/2
48	6	Prefix(†)-06-(*)-(+)HB30-48	29-5/8	7-15/16	15-7/8
	9	Prefix(†)-09-(*)-(+)HB30-48	30-3/8	8-1/8	16-1/4
	12	Prefix(†)-12-(*)-(+)HB30-48	31-1/8	8-5/16	16-11/16
	18	Prefix(†)-18-(*)-(+)HB30-48	32-5/8	8-3/4	17-1/2
	24	Prefix(†)-24-(*)-(+)HB30-48	34-1/8	9-1/8	18-1/4
	30	Prefix(†)-30-(*)-(+)HB30-48	35-5/8	9-9/16	19-1/16
48	36	Prefix(†)-36-(*)-(+)HB30-48	37-1/8	9-15/16	19-7/8
	42	Prefix(†)-42-(*)-(+)HB30-48	38-5/8	10-5/16	20-11/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

Horizontal Tee, Cross

Steel Cable Tray



Part Numbering System

SPF 4 24 L HT 12

Prefix
SPF, SHF, SSF

Width

Fitting
Type

Nominal
Radius

Siderail
Depth

Bottom
Style

Selection Guide

Prefix: SPF(Pre-Galv.),SHF(Hot Dip),SSF(Stainless Steel)

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 3", 4", 5", 6", 7"

Dimension / Information

Steel
Fittings

Horizontal TEE

Nominal Radius R	Width	Catalogue Number	Dimensions	
			X	Y
12	6	Prefix(t)-06-(*)-HT12	15	30
	9	Prefix(t)-09-(*)-HT12	16-1/2	33
	12	Prefix(t)-12-(*)-HT12	18	36
	18	Prefix(t)-18-(*)-HT12	21	42
	24	Prefix(t)-24-(*)-HT12	24	48
	30	Prefix(t)-30-(*)-HT12	27	54
	36	Prefix(t)-36-(*)-HT12	30	60
24	42	Prefix(t)-42-(*)-HT12	33	66
	6	Prefix(t)-06-(*)-HT24	27	54
	9	Prefix(t)-09-(*)-HT24	28-1/2	57
	12	Prefix(t)-12-(*)-HT24	30	60
	18	Prefix(t)-18-(*)-HT24	33	66
	24	Prefix(t)-24-(*)-HT24	36	72
	30	Prefix(t)-30-(*)-HT24	39	78
36	36	Prefix(t)-36-(*)-HT24	42	84
	42	Prefix(t)-42-(*)-HT24	45	90
	6	Prefix(t)-06-(*)-HT36	39	78
	9	Prefix(t)-09-(*)-HT36	40-1/2	81
	12	Prefix(t)-12-(*)-HT36	42	84
	18	Prefix(t)-18-(*)-HT36	45	90
	24	Prefix(t)-24-(*)-HT36	48	96
48	30	Prefix(t)-30-(*)-HT36	51	102
	36	Prefix(t)-36-(*)-HT36	54	108
	42	Prefix(t)-42-(*)-HT36	57	114
	6	Prefix(t)-06-(*)-HT48	51	102
	9	Prefix(t)-09-(*)-HT48	52-1/2	105
	12	Prefix(t)-12-(*)-HT48	54	108
	18	Prefix(t)-18-(*)-HT48	57	114
48	24	Prefix(t)-24-(*)-HT48	60	120
	30	Prefix(t)-30-(*)-HT48	63	126
	36	Prefix(t)-36-(*)-HT48	66	132
	42	Prefix(t)-42-(*)-HT48	69	138

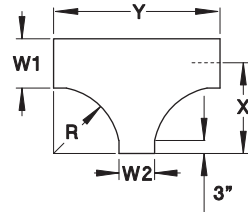
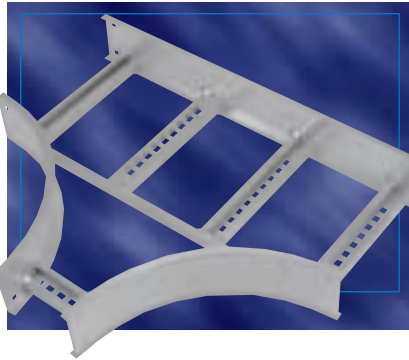
Horizontal CROSS

Nominal Radius R	Width	Catalogue Number	Dimensions	
			X	Y
12	6	Prefix(t)-06-(*)-HX12	15	30
	9	Prefix(t)-09-(*)-HX12	16-1/2	33
	12	Prefix(t)-12-(*)-HX12	18	36
	18	Prefix(t)-18-(*)-HX12	21	42
	24	Prefix(t)-24-(*)-HX12	24	48
	30	Prefix(t)-30-(*)-HX12	27	54
	36	Prefix(t)-36-(*)-HX12	30	60
24	42	Prefix(t)-42-(*)-HX12	33	66
	6	Prefix(t)-06-(*)-HX24	27	54
	9	Prefix(t)-09-(*)-HX24	28-1/2	57
	12	Prefix(t)-12-(*)-HX24	30	60
	18	Prefix(t)-18-(*)-HX24	33	66
	24	Prefix(t)-24-(*)-HX24	36	72
	30	Prefix(t)-30-(*)-HX24	39	78
36	36	Prefix(t)-36-(*)-HX24	42	84
	42	Prefix(t)-42-(*)-HX24	45	90
	6	Prefix(t)-06-(*)-HX36	39	78
	9	Prefix(t)-09-(*)-HX36	40-1/2	81
	12	Prefix(t)-12-(*)-HX36	42	84
	18	Prefix(t)-18-(*)-HX36	45	90
	24	Prefix(t)-24-(*)-HX36	48	96
48	30	Prefix(t)-30-(*)-HX36	51	102
	36	Prefix(t)-36-(*)-HX36	54	108
	42	Prefix(t)-42-(*)-HX36	57	114
	6	Prefix(t)-06-(*)-HX48	51	102
	9	Prefix(t)-09-(*)-HX48	52-1/2	105
	12	Prefix(t)-12-(*)-HX48	54	108
	18	Prefix(t)-18-(*)-HX48	57	114
48	24	Prefix(t)-24-(*)-HX48	60	120
	30	Prefix(t)-30-(*)-HX48	63	126
	36	Prefix(t)-36-(*)-HX48	66	132
	42	Prefix(t)-42-(*)-HX48	69	138

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

Steel Cable Tray

Horizontal Reducing Tee



Part Numbering System

SPF 4 3024 L RT 12

Prefix: SPF, SHF, SSF
Width 1: 30
Width 2: 24
Fitting Type: L
Bottom Style: RT
Nominal Radius: 12

Siderail Depth
Bottom Style

Selection Guide

Prefix: **SPF**(Pre-Galv.), **SHF**(Hot Dip), **SSF**(Stainless Steel)
Tray Widths **W1**: 42, 36, 30, 24, 18, 12, 9
Tray Widths **W2**: 36, 30, 24, 18, 12, 9, 6
Nominal Radius: 12, 24, 36, 48
Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid
Side Rail Depth: 3", 4", 5", 6", 7"

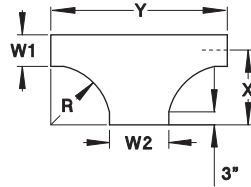
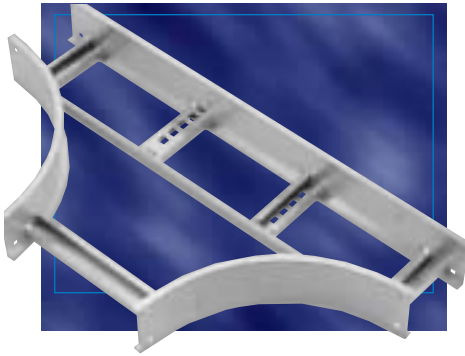
Dimension / Information

Horizontal REDUCING TEE

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
42	36	Prefix(+)-4236-(*)-RT(+)	33	60	45	84	57	108	69	132
	30	Prefix(+)-4230-(*)-RT(+)	33	54	45	78	57	102	69	126
	24	Prefix(+)-4224-(*)-RT(+)	33	48	45	72	57	96	69	120
	18	Prefix(+)-4218-(*)-RT(+)	33	42	45	66	57	90	69	114
	12	Prefix(+)-4212-(*)-RT(+)	33	36	45	60	57	84	69	108
	9	Prefix(+)-4209-(*)-RT(+)	33	33	45	57	57	81	69	105
	6	Prefix(+)-4206-(*)-RT(+)	33	30	45	54	57	78	69	102
36	30	Prefix(+)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	Prefix(+)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
	18	Prefix(+)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	Prefix(+)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
	9	Prefix(+)-3609-(*)-RT(+)	30	33	42	57	54	81	66	105
	6	Prefix(+)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	Prefix(+)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	Prefix(+)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
	12	Prefix(+)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
	9	Prefix(+)-3009-(*)-RT(+)	27	33	39	57	51	81	63	105
	6	Prefix(+)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	Prefix(+)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
	12	Prefix(+)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
	9	Prefix(+)-2409-(*)-RT(+)	24	33	36	57	48	81	60	105
	6	Prefix(+)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	Prefix(+)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
	9	Prefix(+)-1809-(*)-RT(+)	21	33	33	57	45	81	57	105
	6	Prefix(+)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	9	Prefix(+)-1209-(*)-RT(+)	18	33	30	57	42	81	54	105
	6	Prefix(+)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102
9	6	Prefix(+)-0906-(*)-RT(+)	16-1/2	30	28-1/2	54	40-1/2	78	52-1/2	102

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

Horizontal Expanding Tee



Part Numbering System

SPF 4 3024 L ET 12

Prefix: SPF, SHF, SSF Width 1 Width 2 Fitting Type Nominal Radius

Siderail Depth Bottom Style

Selection Guide

Prefix: **SPF**(Pre-Galv.), **SHF**(Hot Dip), **SSF**(Stainless Steel)

Tray Widths **W1**: 36, 30, 24, 18, 12, 9, 6

Tray Widths **W2**: 42, 36, 30, 24, 18, 12, 9

Nominal Radius: 12, 24, 36, 48

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: 3", 4", 5", 6", 7"

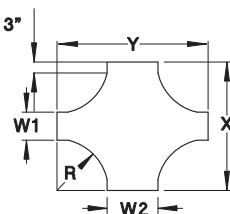
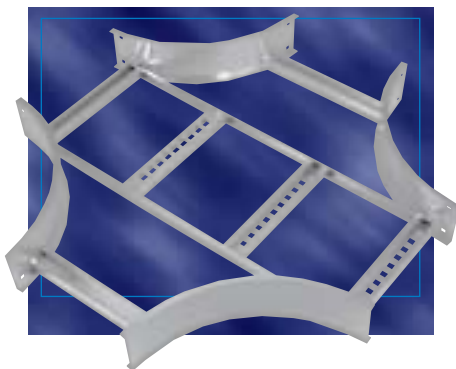
Dimension / Information

Horizontal EXPANDING TEE										
Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	42	Prefix(t)-3642-(*)-ET(+)	30	66	42	90	54	114	66	138
30	36	Prefix(t)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
	42	Prefix(t)-3042-(*)-ET(+)	27	66	39	90	51	114	63	138
24	30	Prefix(t)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
	36	Prefix(t)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
	42	Prefix(t)-2442-(*)-ET(+)	24	66	36	90	48	114	60	138
18	24	Prefix(t)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
	30	Prefix(t)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
	36	Prefix(t)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
	42	Prefix(t)-1842-(*)-ET(+)	21	66	33	90	45	114	57	138
12	18	Prefix(t)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	Prefix(t)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
	30	Prefix(t)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	Prefix(t)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
	42	Prefix(t)-1242-(*)-ET(+)	18	66	30	90	42	114	54	138
9	12	Prefix(t)-0912-(*)-ET(+)	16-1/2	36	28-1/2	60	40-1/2	84	52-1/2	108
	18	Prefix(t)-0918-(*)-ET(+)	16-1/2	42	28-1/2	66	40-1/2	90	52-1/2	114
	24	Prefix(t)-0924-(*)-ET(+)	16-1/2	48	28-1/2	72	40-1/2	96	52-1/2	120
	30	Prefix(t)-0930-(*)-ET(+)	16-1/2	54	28-1/2	78	40-1/2	102	52-1/2	126
	36	Prefix(t)-0936-(*)-ET(+)	16-1/2	60	28-1/2	84	40-1/2	108	52-1/2	132
	42	Prefix(t)-0942-(*)-ET(+)	16-1/2	66	28-1/2	90	40-1/2	114	52-1/2	138
6	9	Prefix(t)-0609-(*)-ET(+)	15	33	27	57	39	81	51	105
	12	Prefix(t)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	Prefix(t)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
	24	Prefix(t)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	Prefix(t)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	Prefix(t)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132
	42	Prefix(t)-0642-(*)-ET(+)	15	66	27	90	39	114	51	138

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

Steel Cable Tray

Horizontal Expanding Cross



Dimension / Information

Part Numbering System

SPF 4 2430 V EX 12

Prefix SPF, SHF, SSF Width 1 Width 2 Fitting Type Nominal Radius

Siderail Depth Bottom Style

Selection Guide

Prefix: **SPF**(Pre-Galv.), **SHF**(Hot Dip), **SSF**(Stainless Steel)

Tray Widths **W1**: **36, 30, 24, 18, 12, 9, 6**

Tray Widths **W2**: **42, 36, 30, 24, 18, 12, 9**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **3", 4", 5", 6", 7"**

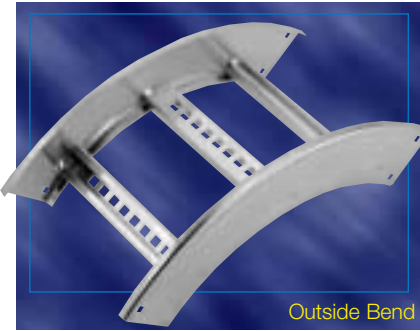
Horizontal EXPANDING CROSS

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	42	Prefix(†)-3642-(*)-EX(+)	60	66	84	90	108	114	132	138
30	36	Prefix(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
	42	Prefix(†)-3042-(*)-EX(+)	54	66	78	90	102	114	126	138
24	30	Prefix(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
	36	Prefix(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
	42	Prefix(†)-2442-(*)-EX(+)	48	66	72	90	96	114	120	138
18	24	Prefix(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
	30	Prefix(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
	36	Prefix(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
	42	Prefix(†)-1842-(*)-EX(+)	42	66	66	90	90	114	114	138
12	18	Prefix(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
	24	Prefix(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
	30	Prefix(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
	36	Prefix(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
	42	Prefix(†)-1242-(*)-EX(+)	36	66	60	90	84	114	108	138
9	12	Prefix(†)-0912-(*)-EX(+)	33	36	57	60	81	84	105	108
	18	Prefix(†)-0918-(*)-EX(+)	33	42	57	66	81	90	105	114
	24	Prefix(†)-0924-(*)-EX(+)	33	48	57	72	81	96	105	120
	30	Prefix(†)-0930-(*)-EX(+)	33	54	57	78	81	102	105	126
	36	Prefix(†)-0936-(*)-EX(+)	33	60	57	84	81	108	105	132
	42	Prefix(†)-0942-(*)-EX(+)	33	66	57	90	81	114	105	138
6	9	Prefix(†)-0609-(*)-EX(+)	30	33	54	57	78	81	102	105
	12	Prefix(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
	18	Prefix(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
	24	Prefix(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
	30	Prefix(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
	36	Prefix(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132
	42	Prefix(†)-0642-(*)-EX(+)	30	66	54	90	78	114	102	138

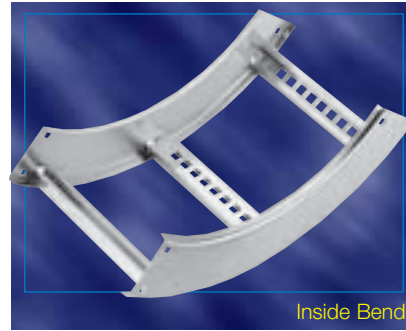
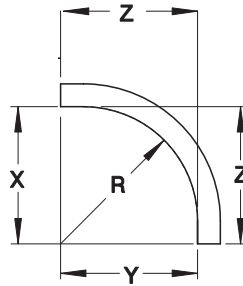
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 3 pairs of splice plates with hardware.

Steel Cable Tray

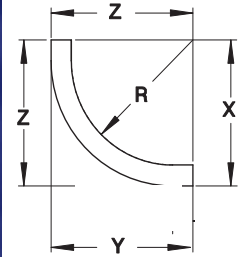
Vertical Bends 90°



Outside Bend



Inside Bend



Part Numbering System

SPF 4 24 L VI90 12

Prefix
SPF, SHF, SSF

Width

Siderail
Depth

Fitting
Type

Bottom
Style

Angle

Nominal
Radius

Selection Guide

Prefix: **SPF**(Pre-Galv.),**SHF**(Hot Dip),**SSF**(Stainless Steel)

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**

Angle: **90°**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **3", 4", 5", 6", 7"**

Dimension / Information

Steel
Fittings

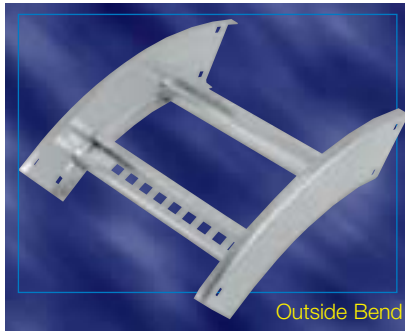
90° Vertical BEND

Nominal Radius	R	Width	Catalogue Number	(+) VO Siderail			(+) VI Siderail Height														
				Height 3-1/2"-7"			3/12"			4"			5"			6"			7"		
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6		Prefix(t)-06-(*)-(+)90-12																		
	9		Prefix(t)-09-(*)-(+)90-12																		
	12		Prefix(t)-12-(*)-(+)90-12																		
	18		Prefix(t)-18-(*)-(+)90-12																		
	24		Prefix(t)-24-(*)-(+)90-12	12	12	12	15-5/8, 15-5/8, 15-5/8			16-3/16, 16-3/16, 16-3/16			17-3/16, 17-3/16, 17-3/16			18-3/16, 18-3/16, 18-3/16			19-3/16, 19-3/16, 19-3/16		
	30		Prefix(t)-30-(*)-(+)90-12																		
24	36		Prefix(t)-36-(*)-(+)90-12																		
	42		Prefix(t)-42-(*)-(+)90-12																		
	6		Prefix(t)-06-(*)-(+)90-24																		
	9		Prefix(t)-09-(*)-(+)90-24																		
	12		Prefix(t)-12-(*)-(+)90-24																		
	18		Prefix(t)-18-(*)-(+)90-24																		
36	24		Prefix(t)-24-(*)-(+)90-24	24	24	24	27-5/8, 27-5/8, 27-5/8			28-3/16, 28-3/16, 28-3/16			29-3/16, 29-3/16, 29-3/16			30-3/16, 30-3/16, 30-3/16			31-3/16, 31-3/16, 31-3/16		
	30		Prefix(t)-30-(*)-(+)90-24																		
	36		Prefix(t)-36-(*)-(+)90-24																		
	42		Prefix(t)-42-(*)-(+)90-24																		
	6		Prefix(t)-06-(*)-(+)90-36																		
	9		Prefix(t)-09-(*)-(+)90-36																		
48	12		Prefix(t)-12-(*)-(+)90-36																		
	18		Prefix(t)-18-(*)-(+)90-36	36	36	36	39-5/8, 39-5/8, 39-5/8			40-3/16, 40-3/16, 40-3/16			41-3/16, 41-3/16, 41-3/16			42-3/16, 42-3/16, 42-3/16			43-3/16, 43-3/16, 43-3/16		
	24		Prefix(t)-24-(*)-(+)90-36																		
	30		Prefix(t)-30-(*)-(+)90-36																		
	36		Prefix(t)-36-(*)-(+)90-36																		
	42		Prefix(t)-42-(*)-(+)90-36																		
48	6		Prefix(t)-06-(*)-(+)90-48																		
	9		Prefix(t)-09-(*)-(+)90-48																		
	12		Prefix(t)-12-(*)-(+)90-48																		
	18		Prefix(t)-18-(*)-(+)90-48	48	48	48	51-5/8, 51-5/8, 51-5/8			52-3/16, 52-3/16, 52-3/16			53-3/16, 53-3/16, 53-3/16			54-3/16, 54-3/16, 54-3/16			55-3/16, 55-3/16, 55-3/16		
	24		Prefix(t)-24-(*)-(+)90-48																		
	30		Prefix(t)-30-(*)-(+)90-48																		
48	36		Prefix(t)-36-(*)-(+)90-48																		
	42		Prefix(t)-42-(*)-(+)90-48																		

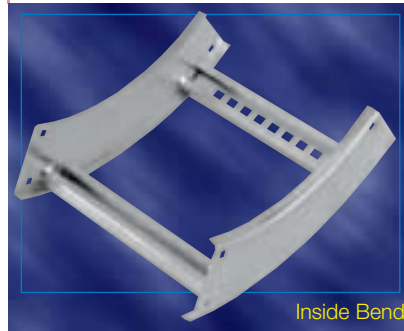
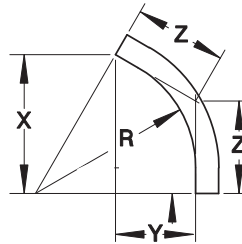
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

Steel Cable Tray

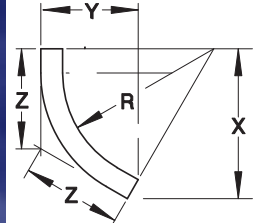
Vertical Bends 60°



Outside Bend



Inside Bend



Part Numbering System

SPF 4 24 L VI60 12

Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
Width: 4, 24, 36, 48
Fitting Type: L (Ladder), V (Ventilated), S (Solid)
Nominal Radius: 12, 24, 36, 48
Siderail Depth: 3, 4, 5, 6, 7
Bottom Style: 12, 24, 36, 48
Angle: 60°

Selection Guide

Prefix: SPF (Pre-Galv.), SHF (Hot Dip), SSF (Stainless Steel)
Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42
Angle: 60°
Nominal Radius: 12, 24, 36, 48
Bottom Styles: L- Ladder, V- Ventilated, S- Solid
Side Rail Depth: 3", 4", 5", 6", 7"

Dimension / Information

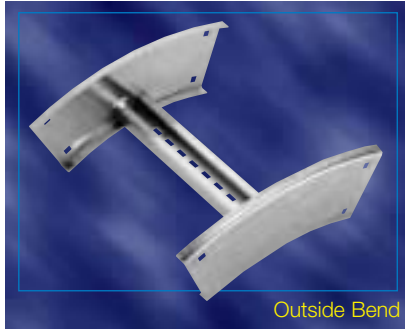
60° Vertical BEND

Nominal Radius		(+) VO Siderail			(+) VI Siderail Height															
		Height 3-1/2"-7"			3-1/2"			4"			5"			6"			7"			
R	Width	Catalogue Number	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6	Prefix(t)-06-(*)-(+)-60-12	10-3/8, 6, 6-15/16			13-1/2, 9-5/8, 9			14, 10-3/16, 9-3/8			14-7/8, 11-3/16, 9-15/16			15-3/4, 12-3/16, 10-1/2			16-5/8, 13-3/16, 11-1/16		
	9	Prefix(t)-09-(*)-(+)-60-12																		
	12	Prefix(t)-12-(*)-(+)-60-12																		
	18	Prefix(t)-18-(*)-(+)-60-12																		
	24	Prefix(t)-24-(*)-(+)-60-12																		
	30	Prefix(t)-30-(*)-(+)-60-12																		
	36	Prefix(t)-36-(*)-(+)-60-12																		
	42	Prefix(t)-42-(*)-(+)-60-12																		
24	6	Prefix(t)-06-(*)-(+)-60-24	20-13/16, 12, 13-7/8			23-15/16,15-5/8,15-15/16			24-7/16, 16-3/16, 16-1/4			25-1/4, 17-3/16, 16-7/8			26-1/8, 18-3/16, 17-7/16			27, 19-3/16, 18		
	9	Prefix(t)-09-(*)-(+)-60-24																		
	12	Prefix(t)-12-(*)-(+)-60-24																		
	18	Prefix(t)-18-(*)-(+)-60-24																		
	24	Prefix(t)-24-(*)-(+)-60-24																		
	30	Prefix(t)-30-(*)-(+)-60-24																		
	36	Prefix(t)-36-(*)-(+)-60-24																		
	42	Prefix(t)-42-(*)-(+)-60-24																		
36	6	Prefix(t)-06-(*)-(+)-60-36	31-3/16, 18, 20-13/16			34-5/16, 21-5/8, 22-7/8			34-13/16,22-3/16,23-3/16			35-11/16, 23-3/16, 23-3/4			36-1/2, 24-3/16, 24-3/8			37-7/16,25-3/16,24-15/16		
	9	Prefix(t)-09-(*)-(+)-60-36																		
	12	Prefix(t)-12-(*)-(+)-60-36																		
	18	Prefix(t)-18-(*)-(+)-60-36																		
	24	Prefix(t)-24-(*)-(+)-60-36																		
	30	Prefix(t)-30-(*)-(+)-60-36																		
	36	Prefix(t)-36-(*)-(+)-60-36																		
	42	Prefix(t)-42-(*)-(+)-60-36																		
48	6	Prefix(t)-06-(*)-(+)-60-48	41-9/16, 24, 27-11/16			44-11/16,27-5/8,29-13/16			45-3/16, 28-3/16, 30-1/8			46-1/16,29-3/16,30-11/16			46-15/16, 30-3/16, 31-1/8			47-13/16, 31-3/16, 31-7/8		
	9	Prefix(t)-09-(*)-(+)-60-48																		
	12	Prefix(t)-12-(*)-(+)-60-48																		
	18	Prefix(t)-18-(*)-(+)-60-48																		
	24	Prefix(t)-24-(*)-(+)-60-48																		
	30	Prefix(t)-30-(*)-(+)-60-48																		
	36	Prefix(t)-36-(*)-(+)-60-48																		
	42	Prefix(t)-42-(*)-(+)-60-48																		

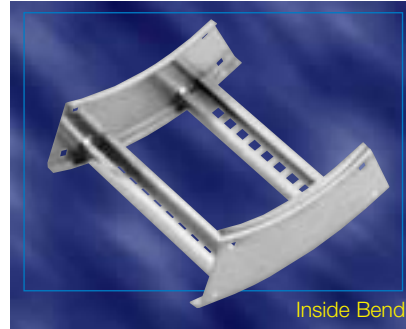
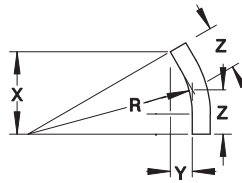
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

Steel Cable Tray

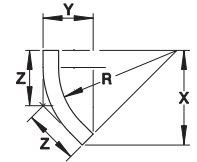
Vertical Bends 45°



Outside Bend



Inside Bend



Part Numbering System

SPF 4 24 L VI45 12

Prefix
SPF, SHF, SSF

Width

Fitting
Type

Nominal
Radius

Siderail
Depth

Bottom
Style

Angle

Selection Guide

Prefix: SPF(Pre-Galv.),SHF(Hot Dip),SSF(Stainless Steel)

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Angle: 45°

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 3", 4", 5", 6", 7"

Dimension / Information

Steel
Fittings

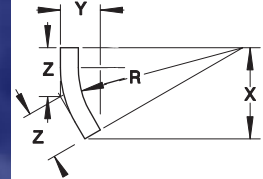
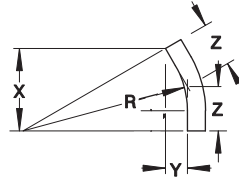
45° Vertical BEND

Nominal Radius	R	Width	Catalogue Number	(+ VO Siderail Height 3-1/2"-7")			(+ VI Siderail Height)											
				3-1/2"			4"			5"			6"			7"		
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6		Prefix(t)-06-(*)-(+)+45-12															
	9		Prefix(t)-09-(*)-(+)+45-12															
	12		Prefix(t)-12-(*)-(+)+45-12															
	18		Prefix(t)-18-(*)-(+)+45-12															
	24		Prefix(t)-24-(*)-(+)+45-12															
	30		Prefix(t)-30-(*)-(+)+45-12															
	36		Prefix(t)-36-(*)-(+)+45-12															
24	42		Prefix(t)-42-(*)-(+)+45-12															
	6		Prefix(t)-06-(*)-(+)+45-24															
	9		Prefix(t)-09-(*)-(+)+45-24															
	12		Prefix(t)-12-(*)-(+)+45-24															
	18		Prefix(t)-18-(*)-(+)+45-24															
	24		Prefix(t)-24-(*)-(+)+45-24															
	30		Prefix(t)-30-(*)-(+)+45-24															
36	36		Prefix(t)-36-(*)-(+)+45-24															
	42		Prefix(t)-42-(*)-(+)+45-24															
	6		Prefix(t)-06-(*)-(+)+45-36															
	9		Prefix(t)-09-(*)-(+)+45-36															
	12		Prefix(t)-12-(*)-(+)+45-36															
	18		Prefix(t)-18-(*)-(+)+45-36															
	24		Prefix(t)-24-(*)-(+)+45-36															
48	30		Prefix(t)-30-(*)-(+)+45-36															
	36		Prefix(t)-36-(*)-(+)+45-36															
	42		Prefix(t)-42-(*)-(+)+45-36															
	6		Prefix(t)-06-(*)-(+)+45-48															
	9		Prefix(t)-09-(*)-(+)+45-48															
	12		Prefix(t)-12-(*)-(+)+45-48															
	18		Prefix(t)-18-(*)-(+)+45-48															
	24		Prefix(t)-24-(*)-(+)+45-48															
	30		Prefix(t)-30-(*)-(+)+45-48															
	36		Prefix(t)-36-(*)-(+)+45-48															
	42		Prefix(t)-42-(*)-(+)+45-48															

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

Steel Cable Tray

Vertical Bends 30°



Part Numbering System

SPF	4	24	L	VI	30	12
Prefix	Width	Fitting	Bottom	Angle	Style	Nominal
SPF, SHF, SSF	Siderail Depth	Type	Style			Radius

Selection Guide

Prefix: **SPF**(Pre-Galv.),**SHF**(Hot Dip),**SSF**(Stainless Steel)
 Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**
 Angle: **30°**
 Nominal Radius: **12, 24, 36, 48**
 Bottom Styles: **L**- Ladder, **V**- Ventilated, **S**- Solid
 Side Rail Depth: **3", 4", 5", 6", 7"**

Dimension / Information

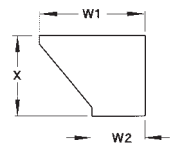
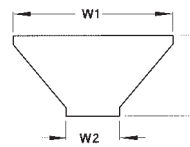
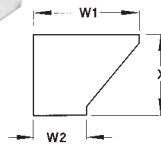
30° Vertical BEND

Nominal Radius	R	Width	Catalogue Number	(+) VO Siderail			(+) VI Siderail Height														
				Height 3-1/2"-7"			3-1/2"			4"			5"			6"			7"		
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	6		Prefix(t)-06-(*)-(+)30-12	6,	1-5/8,	3-3/16	7-13/16,	5-1/4,	4-3/16	8-1/16,	15-13/16,	4-5/16	8-9/16,	6-13/16,	4-5/8	9-1/16,	7-13/16,	4-7/8	9-9/16,	8-13/16,	5-1/8
	9		Prefix(t)-09-(*)-(+)30-12																		
	12		Prefix(t)-12-(*)-(+)30-12																		
	18		Prefix(t)-18-(*)-(+)30-12																		
	24		Prefix(t)-24-(*)-(+)30-12																		
	30		Prefix(t)-30-(*)-(+)30-12																		
	36		Prefix(t)-36-(*)-(+)30-12																		
24	42		Prefix(t)-42-(*)-(+)30-12																		
	6		Prefix(t)-06-(*)-(+)30-24	12,	3-3/16,	6-7/16	13-13/16,	6-13/16,	7-3/8	14-1/16,	7-3/8,	7-9/16	14-9/16,	8-3/8,	7-13/16	15-1/16,	9-3/8,	8-1/16	15-9/16,	10-3/8,	8-3/8
	9		Prefix(t)-09-(*)-(+)30-24																		
	12		Prefix(t)-12-(*)-(+)30-24																		
	18		Prefix(t)-18-(*)-(+)30-24																		
	24		Prefix(t)-24-(*)-(+)30-24																		
	30		Prefix(t)-30-(*)-(+)30-24																		
	36		Prefix(t)-36-(*)-(+)30-24																		
36	42		Prefix(t)-42-(*)-(+)30-24																		
	6		Prefix(t)-06-(*)-(+)30-36	18,	4-13/16,	9-5/8	19-13/16,	8-7/16,	10-5/8	20-1/16,	9,	10-3/4	20-1/16,	10,	11-1/16	21-1/16,	11,	11-5/16	21-9/16,	12,	11-9/16
	9		Prefix(t)-09-(*)-(+)30-36																		
	12		Prefix(t)-12-(*)-(+)30-36																		
	18		Prefix(t)-18-(*)-(+)30-36																		
	24		Prefix(t)-24-(*)-(+)30-36																		
	30		Prefix(t)-30-(*)-(+)30-36																		
	36		Prefix(t)-36-(*)-(+)30-36																		
48	42		Prefix(t)-42-(*)-(+)30-36																		
	6		Prefix(t)-06-(*)-(+)30-48	24,	6-7/16,	12-7/8	25-13/16,	10-1/16,	13-13/16	26-1/16,	10-5/8,	14	26-9/16,	11-5/8,	14-1/4	27-1/16,	12-5/8,	14-1/2	27-9/16,	13-5/8,	14-13/16
	9		Prefix(t)-09-(*)-(+)30-48																		
	12		Prefix(t)-12-(*)-(+)30-48																		
	18		Prefix(t)-18-(*)-(+)30-48																		
	24		Prefix(t)-24-(*)-(+)30-48																		
	30		Prefix(t)-30-(*)-(+)30-48																		
	36		Prefix(t)-36-(*)-(+)30-48																		
	42		Prefix(t)-42-(*)-(+)30-48																		

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
 Includes 1 pair of splice plates with hardware.

Reducers

Steel Cable Tray



Part Numbering System

SPF-6-42-36-L-HLR

Prefix
SPF, SHF, SSF

Width 1
Siderail
Depth

Bottom
Style
Width 2

Fitting
Type

Selection Guide

Prefix: **SPF**(Pre-Galv.),**SHF**(Hot Dip),**SSF**(Stainless Steel)

Tray Widths W1: **42, 36, 30, 24, 18, 12, 9**

Tray Widths W2: **36, 30, 24, 18, 12, 9, 6**

Bottom Styles: **L**- Ladder, **V**- Ventilated, **S**- Solid

Side Rail Depth: **3", 4", 5", 6", 7"**

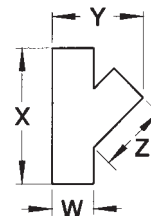
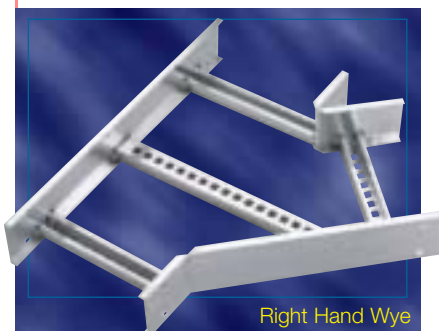
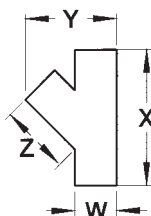
Technical Specifications

Horizontal REDUCERS							
Widths		LH Reducer		Straight Reducer (Concentric)		RH Reducer	
W1	W2	Catalogue Number	Dim. X	Catalogue Number	Dim. X	Catalogue Number	Dim. X
42	36	Prefix(t)-42-36-(*)-HLR	15-7/16	Prefix(t)-42-36-(*)-HSR	13-3/4	Prefix(t)-42-36-(*)-HRR	15-7/16
	30	Prefix(t)-42-30-(*)-HLR	18-15/16	Prefix(t)-42-30-(*)-HSR	15-7/16	Prefix(t)-42-30-(*)-HRR	18-15/16
	24	Prefix(t)-42-24-(*)-HLR	22-3/8	Prefix(t)-42-24-(*)-HSR	17-3/8	Prefix(t)-42-24-(*)-HRR	22-3/8
	18	Prefix(t)-42-18-(*)-HLR	25-7/8	Prefix(t)-42-18-(*)-HSR	18-5/16	Prefix(t)-42-18-(*)-HRR	25-7/8
	12	Prefix(t)-42-12-(*)-HLR	29-5/16	Prefix(t)-42-12-(*)-HSR	20-11/16	Prefix(t)-42-12-(*)-HRR	29-5/16
	9	Prefix(t)-42-09-(*)-HLR	31-1/16	Prefix(t)-42-09-(*)-HSR	21-1/2	Prefix(t)-42-09-(*)-HRR	31-1/16
36	6	Prefix(t)-42-06-(*)-HLR	32-13/16	Prefix(t)-42-06-(*)-HSR	22-3/8	Prefix(t)-42-06-(*)-HRR	32-13/16
	30	Prefix(t)-36-30-(*)-HLR	15-7/16	Prefix(t)-36-30-(*)-HSR	13-3/4	Prefix(t)-36-30-(*)-HRR	15-7/16
	24	Prefix(t)-36-24-(*)-HLR	18-15/16	Prefix(t)-36-24-(*)-HSR	15-7/16	Prefix(t)-36-24-(*)-HRR	18-15/16
	18	Prefix(t)-36-18-(*)-HLR	22-3/8	Prefix(t)-36-18-(*)-HSR	17-3/8	Prefix(t)-36-18-(*)-HRR	22-3/8
	12	Prefix(t)-36-12-(*)-HLR	25-7/8	Prefix(t)-36-12-(*)-HSR	18-5/16	Prefix(t)-36-12-(*)-HRR	25-7/8
	9	Prefix(t)-36-09-(*)-HLR	27-9/16	Prefix(t)-36-09-(*)-HSR	19-13/16	Prefix(t)-36-09-(*)-HRR	27-9/16
30	6	Prefix(t)-36-06-(*)-HLR	29-5/16	Prefix(t)-36-06-(*)-HSR	20-11/16	Prefix(t)-36-06-(*)-HRR	29-5/16
	24	Prefix(t)-30-24-(*)-HLR	15-7/16	Prefix(t)-30-24-(*)-HSR	13-3/4	Prefix(t)-30-24-(*)-HRR	15-7/16
	18	Prefix(t)-30-18-(*)-HLR	18-15/16	Prefix(t)-30-18-(*)-HSR	15-7/16	Prefix(t)-30-18-(*)-HRR	18-15/16
	12	Prefix(t)-30-12-(*)-HLR	22-3/8	Prefix(t)-30-12-(*)-HSR	17-3/16	Prefix(t)-30-12-(*)-HRR	22-3/8
	9	Prefix(t)-30-09-(*)-HLR	24-1/8	Prefix(t)-30-09-(*)-HSR	18-1/16	Prefix(t)-30-09-(*)-HRR	24-1/8
	6	Prefix(t)-30-06-(*)-HLR	25-7/8	Prefix(t)-30-06-(*)-HSR	18-15/16	Prefix(t)-30-06-(*)-HRR	25-7/8
24	18	Prefix(t)-24-18-(*)-HLR	15-7/16	Prefix(t)-24-18-(*)-HSR	13-3/4	Prefix(t)-24-18-(*)-HRR	15-7/16
	12	Prefix(t)-24-12-(*)-HLR	18-15/16	Prefix(t)-24-12-(*)-HSR	15-7/16	Prefix(t)-24-12-(*)-HRR	18-15/16
	9	Prefix(t)-24-09-(*)-HLR	20-11/16	Prefix(t)-24-09-(*)-HSR	16-5/16	Prefix(t)-24-09-(*)-HRR	20-11/16
	6	Prefix(t)-24-06-(*)-HLR	22-3/8	Prefix(t)-24-06-(*)-HSR	17-3/16	Prefix(t)-24-06-(*)-HRR	22-3/8
18	12	Prefix(t)-18-12-(*)-HLR	15-7/16	Prefix(t)-18-12-(*)-HSR	13-3/4	Prefix(t)-18-12-(*)-HRR	15-7/16
	9	Prefix(t)-18-09-(*)-HLR	17-3/16	Prefix(t)-18-09-(*)-HSR	14-5/8	Prefix(t)-18-09-(*)-HRR	17-3/16
	6	Prefix(t)-18-06-(*)-HLR	18-15/16	Prefix(t)-18-06-(*)-HSR	15-7/16	Prefix(t)-18-06-(*)-HRR	18-15/16
12	9	Prefix(t)-12-39-(*)-HLR	13-3/4	Prefix(t)-12-09-(*)-HSR	12-7/8	Prefix(t)-12-09-(*)-HRR	13-3/4
	6	Prefix(t)-12-06-(*)-HLR	15-7/16	Prefix(t)-12-06-(*)-HSR	13-3/4	Prefix(t)-12-06-(*)-HRR	15-7/16
9	6	Prefix(t)-09-06-(*)-HLR	13-3/4	Prefix(t)-09-06-(*)-HSR	12-7/8	Prefix(t)-09-06-(*)-HRR	13-3/4

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

Steel Cable Tray

Horizontal Wye 45°



Part Numbering System

SPF-6-36-L-HYL

Fitting Material
SPF, SHF, SSF

Width

Fitting
Type

Siderail
Depth

Bottom
Style

Selection Guide

Prefix: **SPF**(Pre-Galv.), **SHF**(Hot Dip), **SSF**(Stainless Steel)

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**

Bottom Styles: **L**– Ladder, **V**– Ventilated, **S**– Solid

Side Rail Depth: **3", 4", 5", 6", 7"**

Technical Specifications

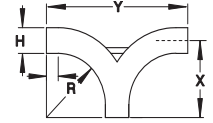
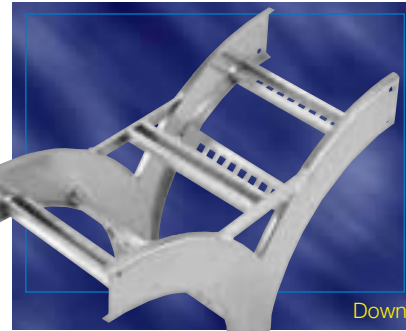
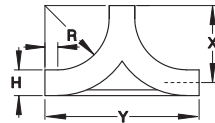
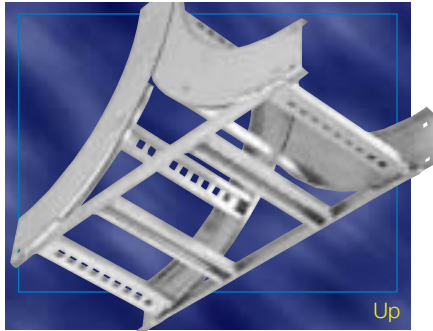
45° Horizontal WYE

Width	Left Hand Wye Catalogue Number	Right Hand Wye Catalogue Number	Dimensions		
			X	Y	Z
6	Prefix(†)-06-(*)-HYL	Prefix(†)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
9	Prefix(†)-09-(*)-HYL	Prefix(†)-09-(*)-HYR	22-1/2	19-15/16	15-7/16
12	Prefix(†)-12-(*)-HYL	Prefix(†)-12-(*)-HYR	26-3/4	25	18-7/16
18	Prefix(†)-18-(*)-HYL	Prefix(†)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	Prefix(†)-24-(*)-HYL	Prefix(†)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	Prefix(†)-30-(*)-HYL	Prefix(†)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	Prefix(†)-36-(*)-HYL	Prefix(†)-36-(*)-HYR	60-11/16	66	42-7/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 2 pairs of splice plates with hardware.

Vertical Tee Up / Down

Steel Cable Tray



Part Numbering System

SPF 4 24 L VTD 12

Prefix
SPF, SHF, SSF
Width
Siderail
Depth
Fitting
Type
Bottom
Style
Nominal
Radius

Selection Guide

Prefix: SPF(Pre-Galv.),SHF(Hot Dip),SSF(Stainless Steel)

Inside Tray Widths: 6, 9, 12, 18, 24, 30, 36, 42

Nominal Radius: 12, 24, 36, 48

Bottom Styles: L- Ladder, V- Ventilated, S- Solid

Side Rail Depth: 3", 4", 5", 6", 7"

Steel
Fittings

Dimension / Information

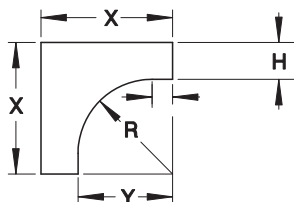
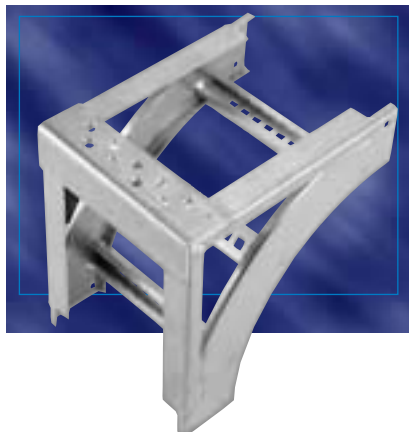
Vertical TEE Up / Down

Nominal Radius	Vertical Tee Up	Vertical Tee Down	Siderail Height “H”										
			3-1/2”		4”		5”		6”		7”		
R	Width	Catalogue Number	Catalogue Number	X	Y	X	Y	X	Y	X	Y	X	Y
12	6	Prefix(t)-06-(*)-VTU12	Prefix-06-(*)-VTD12										
	9	Prefix(t)-09-(*)-VTU12	Prefix-09-(*)-VTD12										
	12	Prefix(t)-12-(*)-VTU12	Prefix-12-(*)-VTD12										
	18	Prefix(t)-18-(*)-VTU12	Prefix-18-(*)-VTD12										
	24	Prefix(t)-24-(*)-VTU12	Prefix-24-(*)-VTD12	13-13/16	27-5/8	14-1/8	28-3/16	14-5/8	29-3/16	15-1/8	30-3/16	15-5/8	31-3/16
	30	Prefix(t)-30-(*)-VTU12	Prefix-30-(*)-VTD12										
	36	Prefix(t)-36-(*)-VTU12	Prefix-36-(*)-VTD12										
	42	Prefix(t)-42-(*)-VTU12	Prefix-42-(*)-VTD12										
24	6	Prefix(t)-06-(*)-VTU24	Prefix-06-(*)-VTD24										
	9	Prefix(t)-09-(*)-VTU24	Prefix-09-(*)-VTD24										
	12	Prefix(t)-12-(*)-VTU24	Prefix-12-(*)-VTD24										
	18	Prefix(t)-18-(*)-VTU24	Prefix-18-(*)-VTD24										
	24	Prefix(t)-24-(*)-VTU24	Prefix-24-(*)-VTD24	25-13/16	51-5/8	26-1/8	52-3/16	26-5/8	53-3/16	27-1/8	54-3/16	27-5/8	55-3/16
	30	Prefix(t)-30-(*)-VTU24	Prefix-30-(*)-VTD24										
	36	Prefix(t)-36-(*)-VTU24	Prefix-36-(*)-VTD24										
	42	Prefix(t)-42-(*)-VTU24	Prefix-42-(*)-VTD24										
36	6	Prefix(t)-06-(*)-VTU36	Prefix-06-(*)-VTD36										
	9	Prefix(t)-09-(*)-VTU36	Prefix-09-(*)-VTD36										
	12	Prefix(t)-12-(*)-VTU36	Prefix-12-(*)-VTD36										
	18	Prefix(t)-18-(*)-VTU36	Prefix-18-(*)-VTD36										
	24	Prefix(t)-24-(*)-VTU36	Prefix-24-(*)-VTD36	NA	NA	38-1/8	76-3/16	38-5/8	77-3/16	39-1/8	78-3/16	39-5/8	79-3/16
	30	Prefix(t)-30-(*)-VTU36	Prefix-30-(*)-VTD36										
	36	Prefix(t)-36-(*)-VTU36	Prefix-36-(*)-VTD36										
	42	Prefix(t)-42-(*)-VTU36	Prefix-42-(*)-VTD36										
48	6	Prefix(t)-06-(*)-VTU48	Prefix-06-(*)-VTD48										
	9	Prefix(t)-09-(*)-VTU48	Prefix-09-(*)-VTD48										
	12	Prefix(t)-12-(*)-VTU48	Prefix-12-(*)-VTD48										
	18	Prefix(t)-18-(*)-VTU48	Prefix-18-(*)-VTD48										
	24	Prefix(t)-24-(*)-VTU48	Prefix-24-(*)-VTD48	NA	NA	50-1/8	100-3/16	50-5/8	101-3/16	51-1/8	102-3/16	51-5/8	103-3/16
	30	Prefix(t)-30-(*)-VTU48	Prefix-30-(*)-VTD48										
	36	Prefix(t)-36-(*)-VTU48	Prefix-36-(*)-VTD48										
	42	Prefix(t)-42-(*)-VTU48	Prefix-42-(*)-VTD48										

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

Steel Cable Tray

Cable Fittings



Dimension / Information

Part Numbering System

SPF 4 24 L CS 12

Prefix: SPF, SHF, SSF Width: 4, 24 Fitting Type: L Nominal Radius: CS 12
Siderail Depth Bottom Style

Selection Guide

Prefix: **SPF**(Pre-Galv.), **SHF**(Hot Dip), **SSF**(Stainless Steel)

Inside Tray Widths: **6, 9, 12, 18, 24, 30, 36, 42**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **L**- Ladder, **V**- Ventilated, **S**- Solid

Side Rail Depth: **3", 4", 5", 6", 7"**

Cable Support Fitting

Nominal Radius			Siderail Height "H"				
			3-7/8"	4"	5"	6"	7"
R	Width	Catalogue Number	X				
12	6	Prefix(†)-06-(*)-CS12	15-5/8	16-3/16	17-3/16	18-3/16	19-3/16
	9	Prefix(†)-09-(*)-CS12					
	12	Prefix(†)-12-(*)-CS12					
	18	Prefix(†)-18-(*)-CS12					
	24	Prefix(†)-24-(*)-CS12					
	30	Prefix(†)-30-(*)-CS12					
	36	Prefix(†)-36-(*)-CS12					
24	42	Prefix(†)-42-(*)-CS12	27-5/8	28-3/16	29-3/16	30-3/16	31-3/16
	6	Prefix(†)-06-(*)-CS24					
	9	Prefix(†)-09-(*)-CS24					
	12	Prefix(†)-12-(*)-CS24					
	18	Prefix(†)-18-(*)-CS24					
	24	Prefix(†)-24-(*)-CS24					
	30	Prefix(†)-30-(*)-CS24					
36	36	Prefix(†)-36-(*)-CS24	39-5/8	40-3/16	41-3/16	42-3/16	43-3/16
	42	Prefix(†)-42-(*)-CS24					
	6	Prefix(†)-06-(*)-CS36					
	9	Prefix(†)-09-(*)-CS36					
	12	Prefix(†)-12-(*)-CS36					
	18	Prefix(†)-18-(*)-CS36					
	24	Prefix(†)-24-(*)-CS36					
48	30	Prefix(†)-30-(*)-CS36	51-5/8	52-3/16	53-3/16	54-3/16	55-3/16
	36	Prefix(†)-36-(*)-CS36					
	42	Prefix(†)-42-(*)-CS36					
	6	Prefix(†)-06-(*)-CS48					
	9	Prefix(†)-09-(*)-CS48					
	12	Prefix(†)-12-(*)-CS48					
	18	Prefix(†)-18-(*)-CS48					
	24	Prefix(†)-24-(*)-CS48					
	30	Prefix(†)-30-(*)-CS48					
	36	Prefix(†)-36-(*)-CS48					
	42	Prefix(†)-42-(*)-CS48					

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.



Steel Cable Tray

Accessories and Covers

Tray Covers

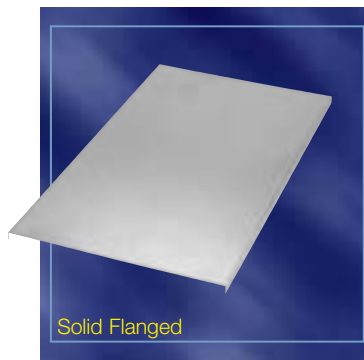
- Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Outside cable tray runs should be covered with a Peaked Flanged cover to protect cable from the elements and excess build up of snow and ice.

Solid Covers

- These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have 1/2" flange.

Cover mounting hardware must be ordered separately.



Solid Flanged



Solid Non-Flanged

Ventilated Flanged Covers

- This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.

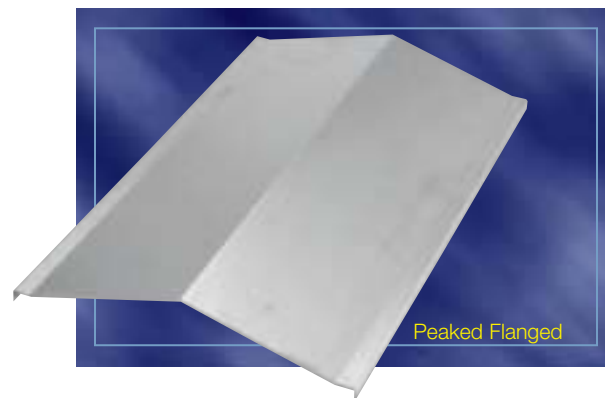


Ventilated Flanged

Peaked Flanged Covers

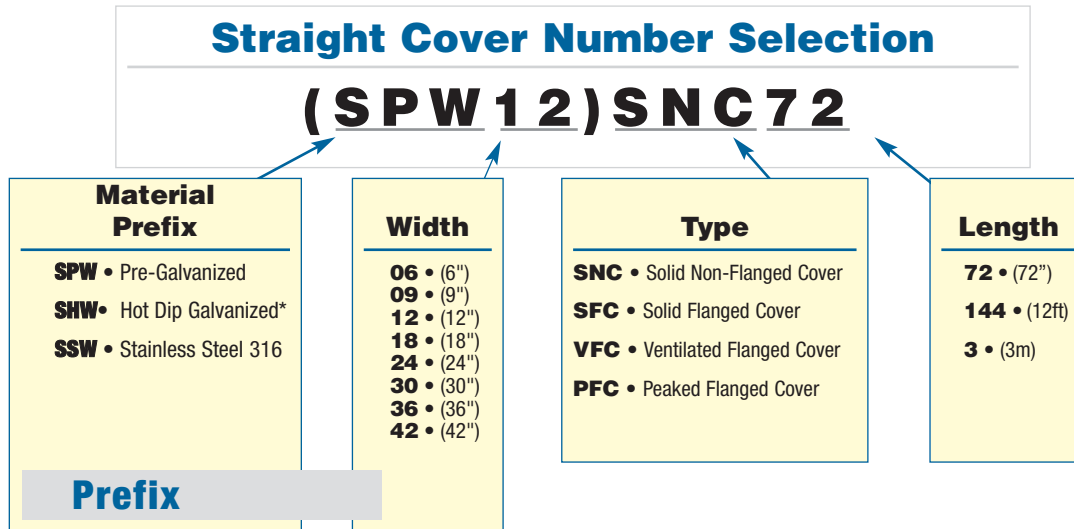
- Peaked covers offer mechanical protection plus prevents accumulation of liquid on the cover. Peaked covers have 15° rise at the peak. Covers greater than 12" wide *available in 72" and 3 m lengths.

Cover mounting hardware must be ordered separately.



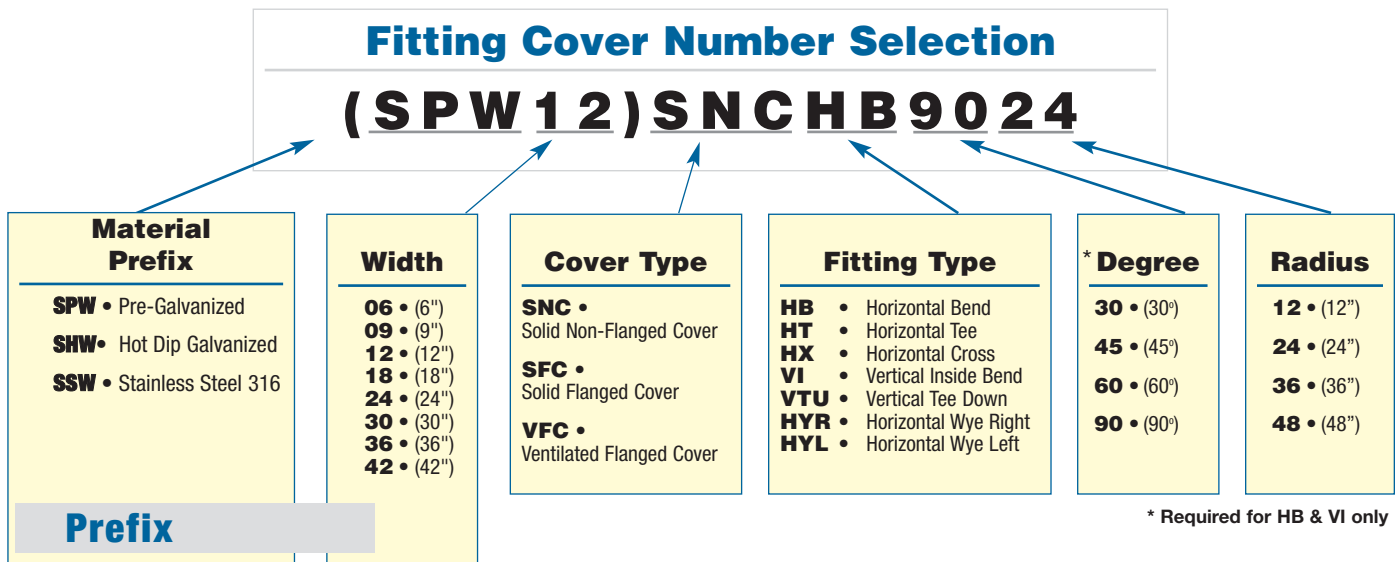
Peaked Flanged

Straight Covers



* Hot Dipped Covers only available in 72" and 1500 mm lengths.

Fitting Covers



Fitting Covers (cont'd)

Fitting Cover Number Selection

(SPW1812)SNCRT90

Material Prefix	Width 1	Width 2	Cover Type	Fitting Type	* Radius
SPW • Pre-Galvanized SHW • Hot Dip Galvanized SSW • Stainless Steel 316	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	RT • Horizontal Reduce Tee ET • Horizontal Expand Tee EX • Horizontal Expand Tee & Reduce Cross Reducer HSR • Horizontal Straight Reducer HLR • Horizontal Left Reducer HRR • Horizontal Right Reducer	12 • (12") 24 • (24") 36 • (36") 48 • (48")

Prefix

* Radius not required for HSR, HLR, HRR

Fitting Cover Number Selection

(SPW412)SNCVO9024

Material Prefix	Siderail Height	Width	Cover Type	Fitting Type	*Degree	Radius
SPW • Pre-Galvanized SHW • Hot Dip Galvanized SSW • Stainless Steel 316	3 • (3-5/8") 4 • (4") 5 • (5") 6 • (6") 7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	SNC • Solid Non-Flanged Cover SFC • Solid Flanged Cover VFC • Ventilated Flanged Cover	VO • Vertical Outside Bend VTD • Vertical Tee Down CS • Cable Support Fitting	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36") 48 • (48")

Prefix

* Required for VO only

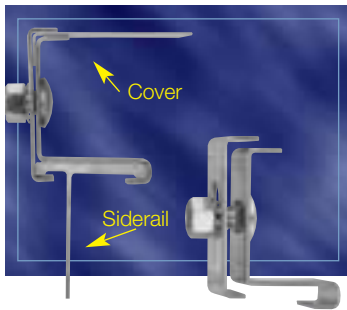
Accessories and Covers

Quantity of Standard Cover Clamps Required

Straight section (6 ft)	4 pcs.
Straight section (12 ft)	6 pcs.
Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.

Note: When using the Heavy Duty Cover Clamp, only half the quantity of pieces are required.

Raised Cover Clamp

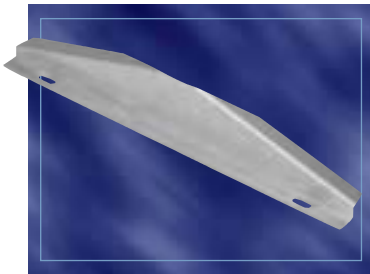


Designed to raise cover above tray for added ventilation.

Material Prefix	Cover Offset	Catalogue Number
SPW	1"	SPW(+)RCC
SSW	2"	
	3"	

(+) Cover offset

Peaked End Cap

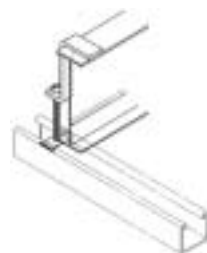


Used for transition between peaked covers to straight covers.

Material Prefix	Width	Catalogue Number
SPW	06"	SPW(*)PEC
SHW	09"	SHW(*)PEC
SSW	12"	
	18"	
	24"	
	30"	
	36"	
	42"	

(*) Width of tray

Combination Hold Down Cover Clamp



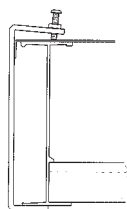
Designed to secure flat and flanged covers with hold down feature.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	SPW-3-CCC
	4"	SPW-4-CCC
	5"	SPW-5-CCC
	6"	SPW-6-CCC
	7"	SPW-7-CCC

Steel Cable Tray

Accessories and Covers

Cover Clamp

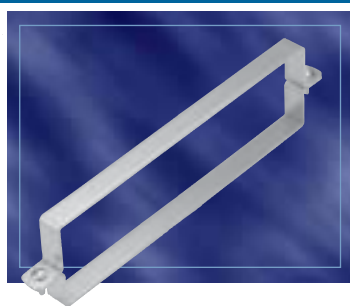


Rigid indoor cover clamp for flat and flanged covers.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-(*)-SCC
SSW	4"	(Prefix)-4-(*)-SCC
	5"	(Prefix)-5-(*)-SCC
	6"	(Prefix)-6-(*)-SCC
	7"	(Prefix)-7-(*)-SCC

(*) Insert siderail height.

Heavy Duty Cover Clamp



Wrap around design offers added protection for rugged applications and outdoor conditions. Hardware included

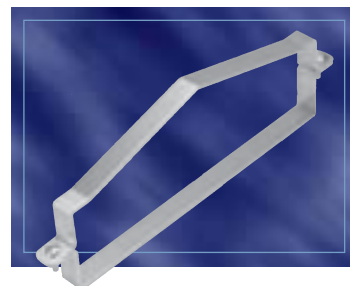
Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-(*)-HCC
SHW	4"	(Prefix)-4-(*)-HCC
SSW	5"	(Prefix)-5-(*)-HCC
	6"	(Prefix)-6-(*)-HCC
	7"	(Prefix)-7-(*)-HCC

(*) Insert siderail height.

IMPORTANT NOTE:

"B" in catalogue number indicates this accessory can be used for both styles.

Heavy Duty Peaked Cover Clamp



Wrap around design formed to fit peaked cover for outdoor applications. Hardware included.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-(*)-HPC
SHW	4"	(Prefix)-4-(*)-HPC
	5"	(Prefix)-5-(*)-HPC
	6"	(Prefix)-6-(*)-HPC
	7"	(Prefix)-7-(*)-HPC

(*) Insert width of tray.

Cover Joint Strip



Strip used for joining covers end to end.

Material Prefix	*Width of Tray	Catalogue Number
SPW	6"	(Prefix)-(*)-SCS
	9"	
	12"	
	18"	
	24"	
	30"	
	36"	
	42"	

(*) Insert width of tray.

Note: material is plastic.

Accessories, Splice Plates

Steel Cable Tray

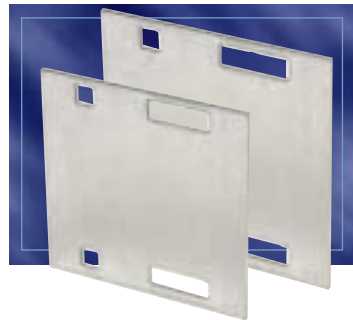
Splice Plate



Packaged in pairs with zinc plated hardware. Provided as standard with each straight and/or fitting.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-SSP
SHW	4"	(Prefix)-4-SSP
SSW	5"	(Prefix)-5-SSP
	6"	(Prefix)-6-SSP
	7"	(Prefix)-7-SSP

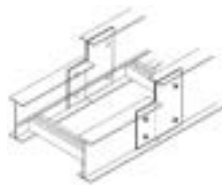
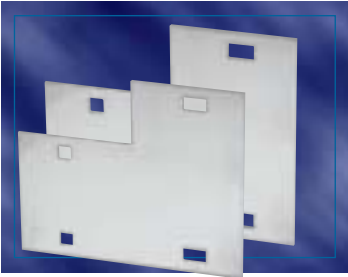
Expansion Splice Plate



Allows for a 1" expansion or contraction of tray system. Packaged in pairs with hardware.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-ESP
SHW	4"	(Prefix)-4-ESP
SSW	5"	(Prefix)-5-ESP
	6"	(Prefix)-6-ESP
	7"	(Prefix)-7-ESP

Step Down Splice Plate



Connects siderails of different heights. Hardware included.

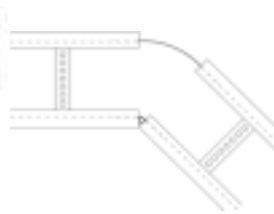
Material Prefix	Catalogue Number
SPW	(Prefix)-(*)-(**)-SDS
SHW	
SSW	

(*) Insert siderail height 1

(**) Insert siderail height 2

Note: Siderail height is greater than siderail height 2.

Horizontal Adjustable Plate



Adjustable hinge plates provide maximum horizontal installation flexibility. Furnished in pairs with hardware.

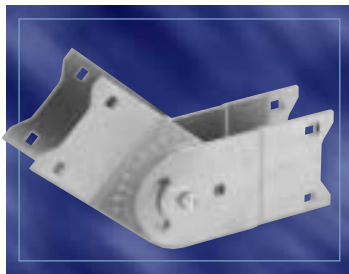
Material Prefix	Siderail Height	For Tray Widths	Catalogue Number
SPW	3"	6" to 24"	(Prefix)-(*)-24-HSP
SHW	4"	inclusive	
SSW	5"		
	6"		
	7"		
SPW	3"	30" to 42"	(Prefix)-(*)-42-HSP
SHW	4"	inclusive	
SSW	5"		
	6"		
	7"		

(*) Tray height.

Steel Cable Tray

Accessories, Splice Plates

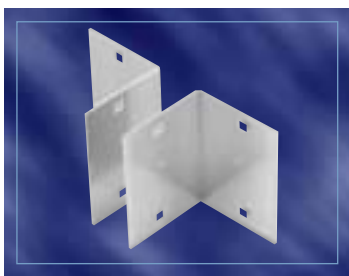
Vertical Adjustable Plate



Hinged vertical plates provide maximum flexibility for changes in elevation. Packaged in pairs with hardware.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-VSP
SHW	4"	(Prefix)-4-VSP
SSW	5"	(Prefix)-5-VSP
	6"	(Prefix)-6-VSP
	7"	(Prefix)-7-VSP

Box to Tray Plates



Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware..

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-BSP
SHW	4"	(Prefix)-4-BSP
SSW	5"	(Prefix)-5-BSP
	6"	(Prefix)-6-BSP
	7"	(Prefix)-7-BSP

Closure End Plate

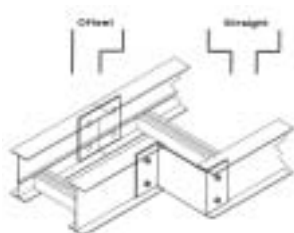
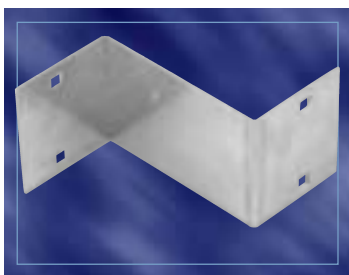


Provides closure for any tray end. Hardware included.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-(*)-CEP
SHW	4"	(Prefix)-4-(*)-CEP
SSW	5"	(Prefix)-5-(*)-CEP
	6"	(Prefix)-6-(*)-CEP
	7"	(Prefix)-7-(*)-CEP

* Tray Width

Reducing Splice Plate



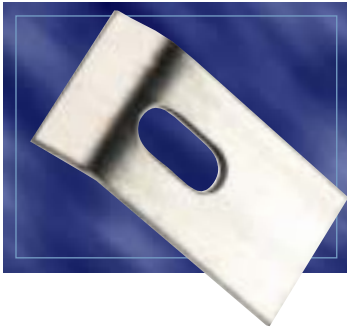
Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction. One per package with hardware.

Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-(*)-RSP
SHW	4"	(Prefix)-4-(*)-RSP
SSW	5"	(Prefix)-5-(*)-RSP
	6"	(Prefix)-6-(*)-RSP
	7"	(Prefix)-7-(*)-RSP

*Note: For Offset Reduction: Insert width to be reduced.

For Straight Reduction: Insert 1/2 width to be reduced (2 required)

Standard Hold down Clamp



Designed for most indoor installations.
Easy to use and install.
Order 3/8" hardware separately.

Material Prefix	Catalogue Number
SPW SHW SSW	(Prefix)-SHC
SPW SSW	(Prefix)-SHC-HDW

HDW = Supplied complete with 3/8" hardware

Combination Hold Down / Expansion Clamp



Order 3/8" hardware separately.

Material Prefix	Catalogue Number
SPW SHW SSW	(Prefix)-HEC

Hold Down Clamp



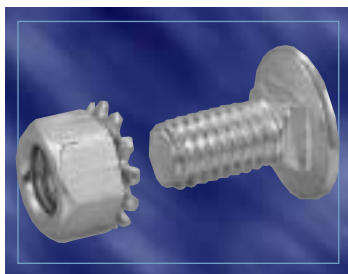
Material Prefix	Siderail Height	Catalogue Number
SPW	3"	(Prefix)-3-HDC
SSW	4"	(Prefix)-4-HDC
	5"	(Prefix)-5-HDC
	6"	(Prefix)-6-HDC
	7"	(Prefix)-7-HDC

* Contains 8 nuts, 8 bolts, 8 lock washers

Steel Cable Tray

Accessories, Hold Down Clamps / Hardware

Steel Tray Hardware



Square shoulder
self-positioning
carriage bolt.

Description	Material	Catalogue Number
1/4" Carriage Bolt	Zinc Plated Steel	SPW-1/4-CB
3/8" Carriage Bolt	Zinc Plated Steel	SPW-3/8-CB
1/4" Hex. Nut	Zinc Plated Steel	SPW-1/4-HN
3/8" Hex. Nut	Zinc Plated Steel	SPW-3/8-HN
3/8" Carriage Bolt	316 Stainless	SS6W-3/8-CB
3/8" Hex. Nut	316 Stainless	SS6W-3/8-HN
316 Stainless Steel Hardware Kit	316 Stainless	SS6W-3/8-HWK

Self Drilling, Self Tapping Screw



Material Prefix	Description	Catalogue Number
Zinc Plated Steel	Self-Drilling Self-Tapping Screw	SPW-10-SCR

Drop-Out



Designed to provide a smooth radiused surface at any position on the tray or trough bottom. Drop-Outs are easily attached using hardware provided.
Standard Radius = 4".

Material Prefix	Tray Width	Catalogue Number
SPW	06	(Prefix)-(*)-DO
SHW	09	(Prefix)-(*)-DOS ⁺
SSW	12	
	18	
	24	
	30	
	36	
	42	

⁺ DOS = is for solid Tray, with no flange.

(*) Tray width

Wall Penetration Sleeve



Designed to pass through walls and fire walls.
Hardware included.

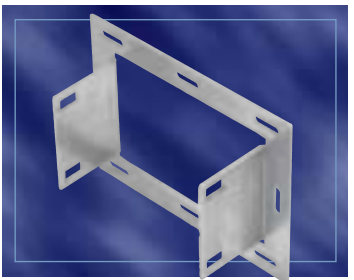
Note: Not Fire Rated.
Fire Stop not included.

Material Prefix	Siderail Height	Tray Width	Catalogue Number
SPW	3"	06	(Prefix)-(*)-(**)-WPS
SHW	4"	09	
SSW	5"	12	
	6"	18	
	7"	24	
		30	
		36	
		42	

(*) Siderail height

(**) Tray width

Frame Type Tray to Box Plate

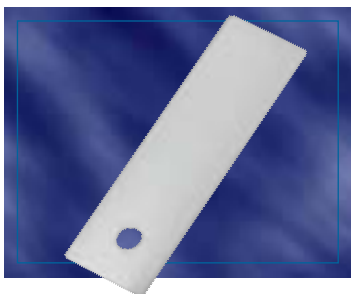


Designed to secure tray to electrical enclosures and panels.

Hardware not included.

Material Prefix	Siderail Height	Tray Width	Catalogue Number
SPW	3"	06	(Prefix)-(*)-(**)-FBP
SHW	4"	09	
SSW	5"	12	
	6"	18	
	7"	24	
		30	
		36	
		42	

Nylon Expansion Pad



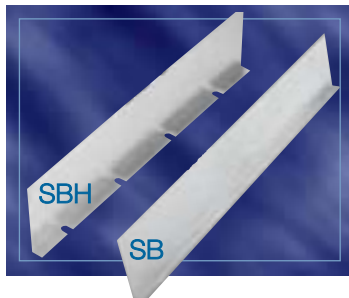
Allows for thermal expansion and contraction of cable trays over supports.

Material	Catalogue Number
Natural Nylon	ABW-NSP

Steel Cable Tray

Accessories, Barrier Strips

Barrier Strips

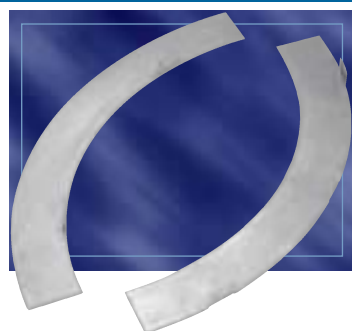


Barrier Strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or Barrier Strip Clamps (sold separately). 72" Barriers are flexible for use with horizontal fittings.

NOTE: 72" barriers provided with 3 SPW10SCR 144", 3m barriers provided with 6 SPW10SCR (*) Insert length

Material Prefix	Siderail Height	*Lenght	Catalogue Number
SPW	3"	72"	(Prefix)-3-(*)-SBH-72
SHW	4"		(Prefix)-4-(*)-SBH-72
SSW	5"		(Prefix)-5-(*)-SBH-72
	6"		(Prefix)-6-(*)-SBH-72
	7"		(Prefix)-7-(*)-SBH-72
SPW	3"	144""	(Prefix)-3-SB-(*)
SHW	4"	3m	(Prefix)-4-SB-(*)
SSW	5"		(Prefix)-5-SB-(*)
	6"		(Prefix)-6-SB-(*)
	7"		(Prefix)-7-SB-(*)

Inside/Outside Vertical Bend Barriers



Material Prefix	Inside Bend Catalogue Number	Outside Bend Catalogue Number	Siderail Height
SPW	(Prefix)-3-VIB-(*)-(+)	(Prefix)-3-VOB-(*)-(+)	3"
SHW	(Prefix)-4-VIB-(*)-(+)	(Prefix)-4-VOB-(*)-(+)	4"
SSW	(Prefix)-5-VIB-(*)-(+)	(Prefix)-5-VOB-(*)-(+)	5"
	(Prefix)-6-VIB-(*)-(+)	(Prefix)-6-VOB-(*)-(+)	6"
	(Prefix)-7-VIB-(*)-(+)	(Prefix)-7-VOB-(*)-(+)	7"

Preformed to fit all standard steel vertical bends. Provided with hardware.

(*) Insert Bend Degree (+) Insert Bend Radius
Note: 3" is only available in 12" and 24" radius.

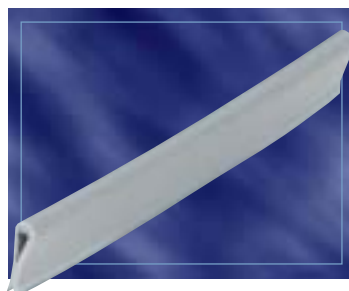
Barrier Strip Clamp



Barrier Strip Clamps mount Barrier Strips to Ladder rungs and Ventilated Trough bottoms. Complete mounting hardware supplied.

Material Prefix	Catalogue Number
SPW	(Prefix)-BSC
SSW	

Barrier Strip Splice

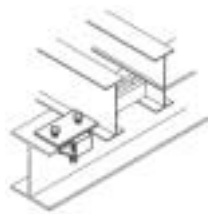


Alignment splice for joining connecting Barrier Strips.

Material	Catalogue Number
Plastic	ABW-BSS

Accessories, Cable Tray Guide

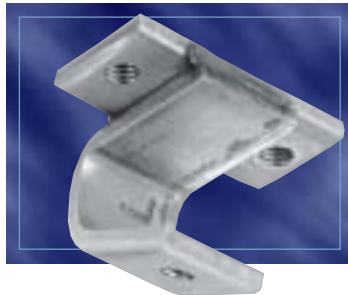
Cable Tray Guide



Expansion guide for single or double runs of cable tray.
No need to field drill channel or I-beam.

Material	Catalogue Number
Zinc Plated Steel	SPW-CTG
Steel Hot Dip	SHW-CTG
Stainless Steel	SSW-CTG

Cable Tray Clamp



Clamps for single run of cable tray.
No need to field drill channel or I-beam.

Material	Catalogue Number
Zinc Plated Steel	SPW-CTC
Steel Hot Dip	SHW-CTC
Stainless Steel	SSW-CTC

Vertical Tray Hanger



Material Prefix	Tray Width	Catalogue Number
SPW	3"	(Prefix)-(*)-VTH
SHW	4"	
SSW	5"	
	6"	
	7"	

One Piece Cable Tray

Aluminum, Pre-Galvanized,
Hot Dip Galvanized
and Stainless Steel

Ventilated Trough

- Formed from a pre-punched sheet to produce a One-Piece Ventilated Trough.
- Available in Aluminum, Pre-Galvanized Steel, Hot Dip Galvanized Steel and Stainless Steel 316.
- Fittings are also available to complete this cable tray system.



Solid Trough

- Fabricated from one sheet to form a continuous One-Piece tray design.
- Available in Aluminum, Pre-Galvanized Steel, Hot Dip Galvanized Steel and Stainless Steel 316.
- Fittings are also available to complete this cable tray system.



Note: 1 pair of splice plates complete with hardware supplied with each straight length.

Aluminum, Pre-Galvanized, Hot Dip Galvanized, Stainless Steel, Solid and Ventilated Straight Lengths

One Piece Cable Tray

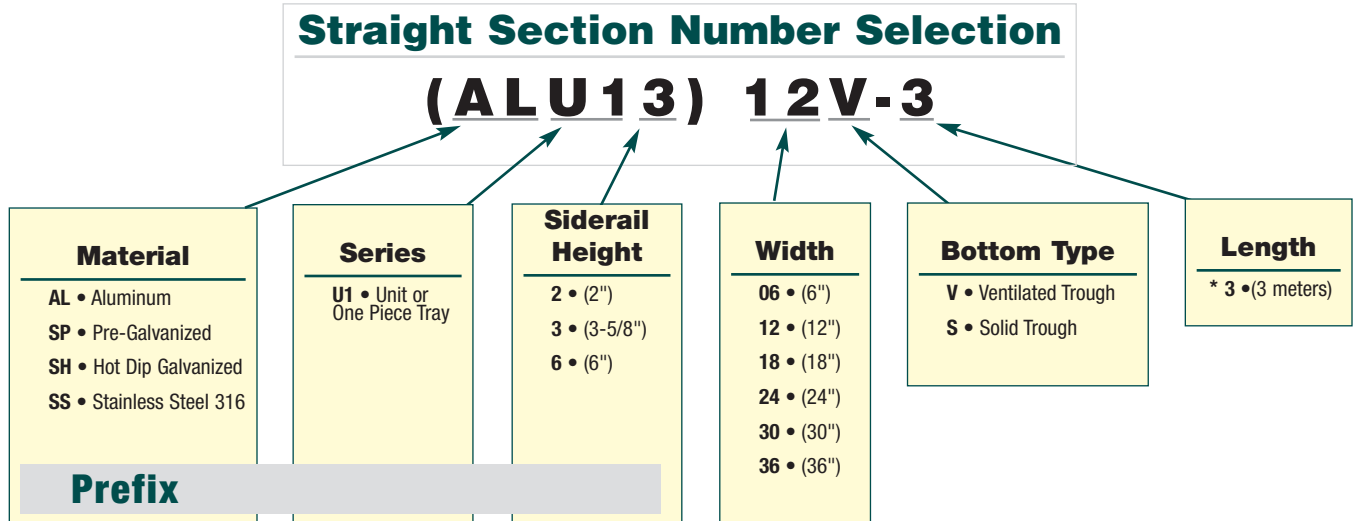
How to create part numbers

Thomas & Betts has created a numbering system based on the order of selection criteria. For example the first selection issue is the environment which the cable tray will be subjected to. This selection will lead to the best material for your application. For complete details on cable tray selection process, see page 10.

Methods:

1. Select the material best suited to your environment. Refer to technical section page 10.
2. Determine the series tray using the NEMA Load/Span Designations page 11, and Sizing Cable Tray page 13.
3. Select nominal depth and width of tray based on Cable Loading. See Sizing Cable Tray page 13.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray.

Example:



* Standard straight length is 10 feet nominal = actually 3m.
1m = 3.2808ft 3m = 9.842ft

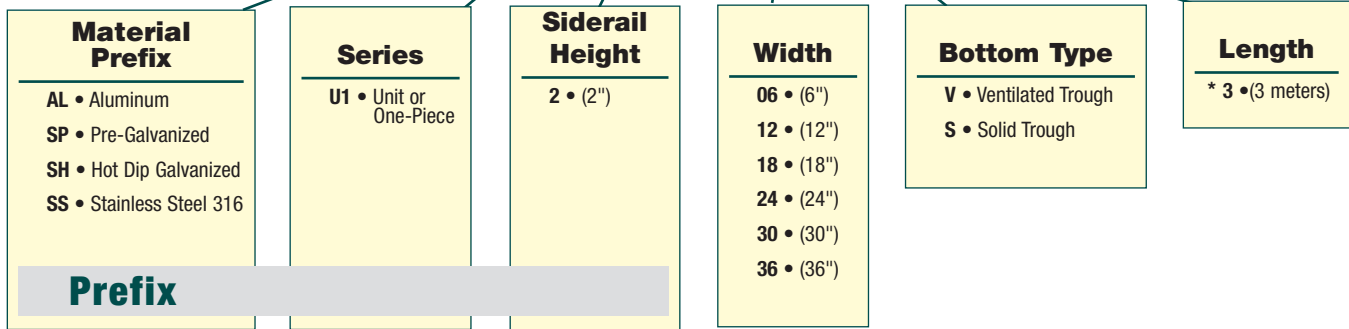
One Piece Cable Tray

2" Straight Section
AL, SP, SH, SS

Solid and Vented Straight Lengths

Straight Section Number Selection

(ALU12) 12V-3



* Standard straight length is 10 feet nominal = actually 3m.
1m = 3.2808 ft 3m = 9.842 ft

Technical Specifications

All calculations and data are based on 36" wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR

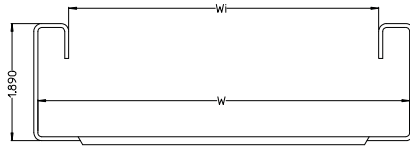
For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 167 to 181.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
ALU12	Load (lb/ft)	69	39	25	-	-	-	-	-
	Deflection (in.)	0.382	0.730	1.000	-	-	-	-	-
	Deflection Factor	0.006	0.019	0.040	-	-	-	-	-
SPU12	Load (lb/ft)	69	39	25	-	-	-	-	-
	Deflection (in.)	0.382	0.730	1.000	-	-	-	-	-
	Deflection Factor	0.006	0.019	0.040	-	-	-	-	-
SHU12	Load (lb/ft)	69	39	25	-	-	-	-	-
	Deflection (in.)	0.382	0.730	1.000	-	-	-	-	-
	Deflection Factor	0.006	0.019	0.040	-	-	-	-	-
SSU12	Load (lb/ft)	69	39	25	-	-	-	-	-
	Deflection (in.)	0.382	0.730	1.000	-	-	-	-	-
	Deflection Factor	0.006	0.019	0.040	-	-	-	-	-

2" Straight Section AL, SP ,SH, SS Solid and Vented Straight Lengths

One Piece Cable Tray



One Piece
Straights

All U12 Series (Dimensions)	
W (in.)	Wt (in.)
6	5.0
9	8.0
12	11.0
18	17.0
24	23.0
30	29.0
36	35.0

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

SERIES	DIMENSIONS	CLASSIFICATIONS	
		NEMA	CSA
ALU12	See Above	—	A
SPU12 SHU12	See Above	—	A
SSU12	See Above	—	A

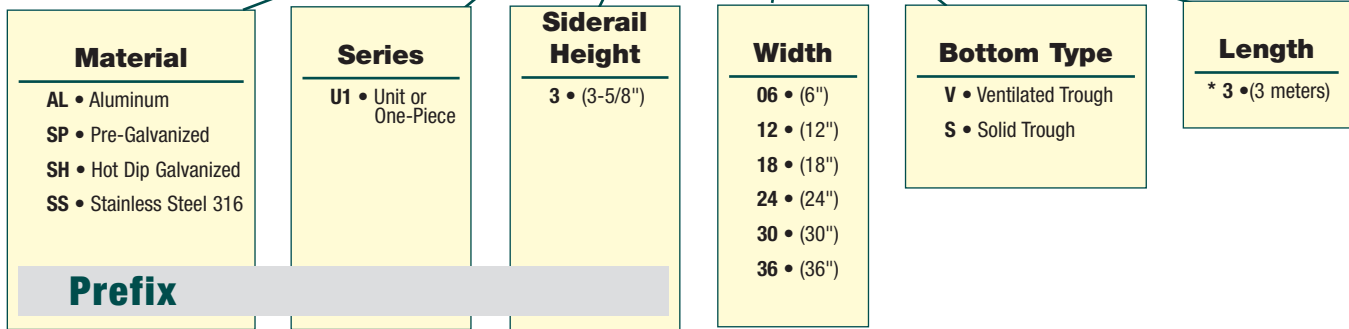
One Piece Cable Tray

3-5/8" Straight Section
AL, SP, SH, SS

Solid and Vented Straight Lengths

Straight Section Number Selection

(ALU13) 12V-3



* Standard straight length is 10 feet nominal = actually 3m.
1m = 3.2808 ft 3m = 9.842 ft

Technical Specifications

All calculations and data are based on 36" wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR

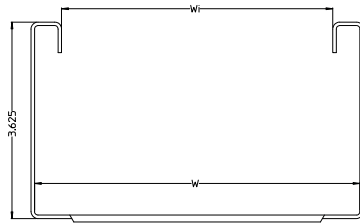
For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 167 to 181.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
ALU13	Load (lb/ft)	180	101	65	-	-	-	-	-
	Deflection (in.)	0.382	0.430	0.540	-	-	-	-	-
	Deflection Factor	0.002	0.004	0.008	-	-	-	-	-
SPU13	Load (lb/ft)	180	101	65	-	-	-	-	-
	Deflection (in.)	0.125	0.250	0.320	-	-	-	-	-
	Deflection Factor	0.001	0.002	0.005	-	-	-	-	-
SSU13	Load (lb/ft)	180	101	65	-	-	-	-	-
	Deflection (in.)	0.125	0.250	0.320	-	-	-	-	-
	Deflection Factor	0.001	0.002	0.005	-	-	-	-	-

3-5/8" Straight Section AL, SP ,SH, SS Solid and Vented Straight Lengths

One Piece Cable Tray



One Piece
Straights

All U13 Series (Dimensions)	
W (in.)	Wt (in.)
6	5.0
9	8.0
12	11.0
18	17.0
24	23.0
30	29.0
36	35.0

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

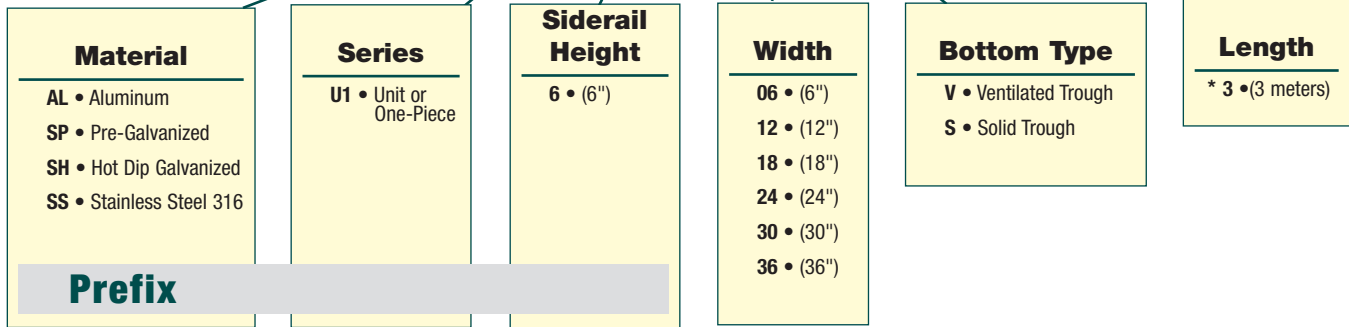
SERIES	DIMENSIONS	CLASSIFICATIONS	
		NEMA	CSA
ALU13	See Above	8C	C1
SPU13 SHU13	See Above	8C	C1
SSU13	See Above	8C	C1

One Piece Cable Tray

6" Straight Section
AL, SP, SH, SS
Solid and Vented Straight Lengths

Straight Section Number Selection

(ALU16) 12V-3



* Standard straight length is 10 feet nominal = actually 3m.
1m = 3.2808 ft 3m = 9.842 ft

Technical Specifications

All calculations and data are based on 36" wide cable trays with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR

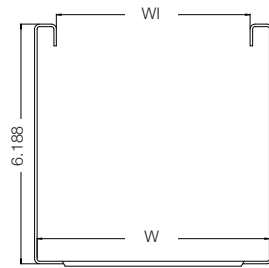
For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For Fittings consult pages 167 to 181.

Series		Support Span (Feet)							
		6	8	10	12	14	16	18	20
ALU16	Load (lb/ft)	180	101	65	-	-	-	-	-
	Deflection (in.)	0.082	0.128	0.160	-	-	-	-	-
	Deflection Factor	0.000	0.001	0.002	-	-	-	-	-
SPU16	Load (lb/ft)	180	101	65	-	-	-	-	-
	Deflection (in.)	0.125	0.250	0.320	-	-	-	-	-
	Deflection Factor	0.001	0.002	0.005	-	-	-	-	-
SSU16	Load (lb/ft)	180	101	65	-	-	-	-	-
	Deflection (in.)	0.125	0.250	0.320	-	-	-	-	-
	Deflection Factor	0.001	0.002	0.005	-	-	-	-	-

6" Straight Section AL, SP ,SH, SS Solid and Vented Straight Lengths

One Piece Cable Tray



One Piece
Straights

All U16 Series (Dimensions)	
W (in.)	Wl (in.)
6	5.0
9	8.0
12	11.0
18	17.0
24	23.0
30	29.0
36	35.0

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

SERIES	DIMENSIONS	CLASSIFICATIONS	
		NEMA	CSA
ALU16	See Above	8C	C1
SPU16 SHU16	See Above	8C	C1
SSU16	See Above	8C	C1

Fitting Number Selection						
SPUF306VHT6024						
Material Prefix	Siderail Depth	Width	Bottom Type	Fitting Type	* Angle	† Nominal Radius
ALUF • Aluminum SPUF • Pre-Galvanized Fittings SHUF • Hot Dip Galvanized Fittings SSUF • Stainless Steel 316	2 • (2") 3 • (3-5/8") 6 • (6")	06 • (6") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36")	V • Ventilated Trough S • Solid Trough	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VI • Vertical Inside Bend VO • Vertical Outside Bend HYR • Horizontal Wye Right HYL • Horizontal Wye Left RT • Horizontal Reducing Tee ET • Horizontal Expanding Tee EX • Horizontal Expand Cross HLR • Horizontal Left Reducer HSR • Horizontal Straight Reducer HRR • Horizontal Right Reducer CS • Cable Support Fitting	30 • (30°) 45 • (45°) 60 • (60°) 90 • (90°)	12 • (12") 24 • (24") 36 • (36")
Prefix						

* Angle is required for HB, VI, VO only.

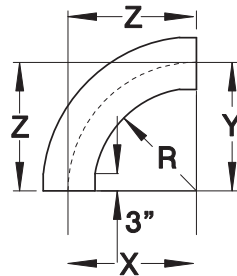
† Radius is not required for the following Fitting Types:
HYR, HYL, HLR, HRR, HSR

Horizontal Bends 90° / 60°

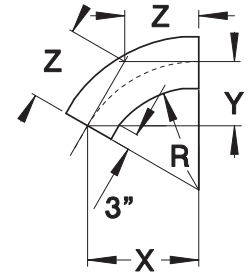
One Piece Cable Tray



Dimension / Information



90° Horizontal Bend



60° Horizontal Bend

Part Numbering System

ALUF 3 24 V HB90 12

Prefix: ALUF, SPUF, SHUF, SSUF
Width: 3, 12, 18, 24, 30, 36
Fitting Type: V (Ventilated), S (Solid)
Nominal Radius: 12, 24, 36
Siderail Depth: 2", 3", 6"
Bottom Style: V- Ventilated, S- Solid
Angle: 90°, 60°

Selection Guide

Prefix: ALUF(Aluminum), SPUF(Pre-Galv.), SHUF(Hot Dip Galv.), SSUF(Stainless Steel)

Inside Tray Widths: 6, 12, 18, 24, 30, 36

Angle: 90°, 60°

Nominal Radius: 12, 24, 36

Bottom Styles: V- Ventilated, S- Solid

Side Rail Depth: 2", 3", 6"

One Piece
Fittings

90° Horizontal Bend

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	06	Prefix(t)-06-(*)-HB90-12	15	15	15
	12	Prefix(t)-12-(*)-HB90-12	18	18	18
	18	Prefix(t)-18-(*)-HB90-12	21	21	21
	24	Prefix(t)-24-(*)-HB90-12	24	24	24
	30	Prefix(t)-30-(*)-HB90-12	27	27	27
	36	Prefix(t)-36-(*)-HB90-12	30	30	30
24	06	Prefix(t)-06-(*)-HB90-24	27	27	17
	12	Prefix(t)-12-(*)-HB90-24	30	30	30
	18	Prefix(t)-18-(*)-HB90-24	33	33	33
	24	Prefix(t)-24-(*)-HB90-24	36	36	36
	30	Prefix(t)-30-(*)-HB90-24	39	39	39
	36	Prefix(t)-36-(*)-HB90-24	42	42	42
36	06	Prefix(t)-06-(*)-HB90-36	39	39	39
	12	Prefix(t)-12-(*)-HB90-36	42	42	42
	18	Prefix(t)-18-(*)-HB90-36	45	45	45
	24	Prefix(t)-24-(*)-HB90-36	48	48	48
	30	Prefix(t)-30-(*)-HB90-36	51	51	51
	36	Prefix(t)-36-(*)-HB90-36	54	54	54

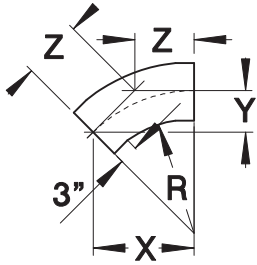
60° Horizontal Bend

Nominal Radius			Dimensions		
R	Width	Catalogue Number	X	Y	Z
12	06	Prefix(t)-06-(*)-HB60-12	14-7/8	8-5/8	9-15/16
	12	Prefix(t)-12-(*)-HB60-12	17-1/2	10-1/8	11-11/16
	18	Prefix(t)-18-(*)-HB60-12	20-1/16	11-5/8	13-3/8
	24	Prefix(t)-24-(*)-HB60-12	22-11/16	13-1/8	15-1/8
	30	Prefix(t)-30-(*)-HB60-12	25-5/16	14-5/8	16-7/8
	36	Prefix(t)-36-(*)-HB60-12	27-7/8	16-1/8	18-9/16
24	06	Prefix(t)-06-(*)-HB60-24	25-5/16	14-5/8	16-7/8
	12	Prefix(t)-12-(*)-HB60-24	27-7/8	16-1/8	18-9/16
	18	Prefix(t)-18-(*)-HB60-24	30-1/2	17-5/8	20-5/16
	24	Prefix(t)-24-(*)-HB60-24	33-1/16	19-1/8	22-1/16
	30	Prefix(t)-30-(*)-HB60-24	35-11/16	20-5/8	23-13/16
	36	Prefix(t)-36-(*)-HB60-24	38-1/4	22-1/8	25-1/2
36	06	Prefix(t)-06-(*)-HB60-36	35-11/16	20-5/8	23-13/16
	12	Prefix(t)-12-(*)-HB60-36	38-1/4	22-1/8	25-1/2
	18	Prefix(t)-18-(*)-HB60-36	40-7/8	23-5/8	27-2/8
	24	Prefix(t)-24-(*)-HB60-36	43-1/2	25-1/8	29
	30	Prefix(t)-30-(*)-HB60-36	46-1/16	26-5/8	30-11/16
	36	Prefix(t)-36-(*)-HB60-36	48-11/16	28-1/8	32-7/16

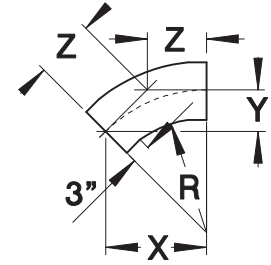
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

One Piece Cable Tray

Horizontal Bends 45° / 30°



45° Horizontal Bend



30° Horizontal Bend

Part Numbering System

Prefix	Width	Fitting Type	Nominal Radius
ALUF 3 24 V HB45 12			
ALUF, SPUF, SHUF, SSUF	Siderail Depth	Bottom Style	Angle

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)
 Inside Tray Widths: **6, 12, 18, 24, 30, 36**
 Angle: **45°, 30°**
 Nominal Radius: **12, 24, 36**
 Bottom Styles: **V**– Ventilated, **S**– Solid
 Side Rail Depth: **2", 3", 6"**

Dimension / Information

45° Horizontal Bend

Nominal Radius R	Width	Catalogue Number	Dimensions		
			X	Y	Z
12	06	Prefix(†)-06-(*)-(+)HB45-12	13-5/8	5-5/8	8
	12	Prefix(†)-12-(*)-(+)HB45-12	15-3/4	6-12	9-3/16
	18	Prefix(†)-18-(*)-(+)HB45-12	17-7/8	7-3/8	10-7/16
	24	Prefix(†)-24-(*)-(+)HB45-12	20	8-1/4	11-11/16
	30	Prefix(†)-30-(*)-(+)HB45-12	22-1/16	9-1/8	12-15/16
	36	Prefix(†)-36-(*)-(+)HB45-12	24-3/16	10	14-3/16
24	06	Prefix(†)-06-(*)-(+)HB45-24	22-1/16	9-1/8	12-15/16
	12	Prefix(†)-12-(*)-(+)HB45-24	24-3/16	10	14-3/16
	18	Prefix(†)-18-(*)-(+)HB45-24	26-5/16	10-15/16	15-7/16
	24	Prefix(†)-24-(*)-(+)HB45-24	28-7/16	11-13/16	16-11/16
	30	Prefix(†)-30-(*)-(+)HB45-24	30-9/16	12-11/16	17-15/16
	36	Prefix(†)-36-(*)-(+)HB45-24	32-11/16	13-9/16	19-1/8
36	06	Prefix(†)-06-(*)-(+)HB45-36	30-9/16	12-11/16	17-15/16
	12	Prefix(†)-12-(*)-(+)HB45-36	32-11/16	13-9/16	19-1/8
	18	Prefix(†)-18-(*)-(+)HB45-36	34-13/16	14-7/16	20-3/8
	24	Prefix(†)-24-(*)-(+)HB45-36	36-15/16	15-5/16	21-5/8
	30	Prefix(†)-30-(*)-(+)HB45-36	39-1/16	16-3/16	22-7/8
	36	Prefix(†)-36-(*)-(+)HB45-36	41-3/16	17-1/16	24-1/8

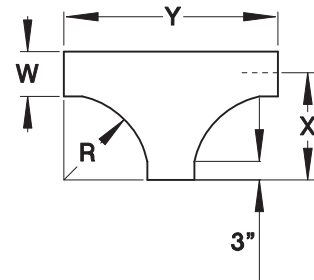
30° Horizontal Bend

Nominal Radius R	Width	Catalogue Number	Dimensions		
			X	Y	Z
12	06	Prefix(†)-06-(*)-(+)HB30-12	11-5/8	3-1/8	6-3/16
	12	Prefix(†)-12-(*)-(+)HB30-12	13-1/2	3-1/2	7
	18	Prefix(†)-18-(*)-(+)HB30-12	14-5/8	3-15/16	7-13/16
	24	Prefix(†)-24-(*)-(+)HB30-12	16-1/8	4-5/16	8-5/8
	30	Prefix(†)-30-(*)-(+)HB30-12	17-5/8	4-11/16	9-7/16
	36	Prefix(†)-36-(*)-(+)HB30-12	19-1/8	5-1/8	10-1/4
24	06	Prefix(†)-06-(*)-(+)HB30-24	17-5/8	4-11/16	9-7/16
	12	Prefix(†)-12-(*)-(+)HB30-24	19-1/8	5-2/16	10-4/16
	18	Prefix(†)-18-(*)-(+)HB30-24	20-5/8	5-8/16	11-1/16
	24	Prefix(†)-24-(*)-(+)HB30-24	22-1/8	5-15/16	11-13/16
	30	Prefix(†)-30-(*)-(+)HB30-24	23-5/8	6-5/16	12-10/16
	36	Prefix(†)-36-(*)-(+)HB30-24	25-1/8	6-12/16	13-7/16
36	06	Prefix(†)-06-(*)-(+)HB30-36	23-5/8	6-5/16	12-5/8
	12	Prefix(†)-12-(*)-(+)HB30-36	25-1/8	6-3/4	13-7/16
	18	Prefix(†)-18-(*)-(+)HB30-36	26-5/8	7-1/4	14-1/4
	24	Prefix(†)-24-(*)-(+)HB30-36	28-1/8	7-1/2	15-1/16
	30	Prefix(†)-30-(*)-(+)HB30-36	29-5/8	7-15/16	15-7/8
	36	Prefix(†)-36-(*)-(+)HB30-36	31-1/8	8-5/16	16-11/16

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
 Includes 1 pair of splice plates with hardware.

Horizontal Tee°

One Piece Cable Tray



Dimension / Information

Part Numbering System

ALUF	3	24	V	HT	12
Prefix ALUF, SPUF, SHUF, SSUF	Width		Fitting Type		Nominal Radius
	Siderail Depth		Bottom Style		

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)
 Inside Tray Widths: **6, 12, 18, 24, 30, 36**
 Nominal Radius: **12, 24, 36**
 Bottom Styles: **V**– Ventilated, **S**– Solid
 Side Rail Depth: **2", 3", 6"**

One Piece
Fittings

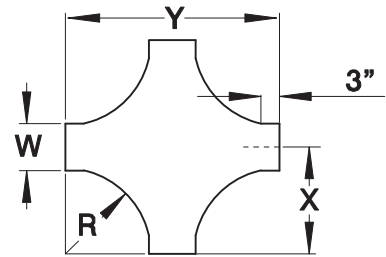
Horizontal TEE

Nominal Radius R	Width	Catalogue Number	Dimensions	
			X	Y
12	06	Prefix(†)-06-(*)-HT12	15	30
	12	Prefix(†)-12-(*)-HT12	18	36
	18	Prefix(†)-18-(*)-HT12	21	42
	24	Prefix(†)-24-(*)-HT12	24	48
	30	Prefix(†)-30-(*)-HT12	27	54
	36	Prefix(†)-36-(*)-HT12	30	60
24	06	Prefix(†)-06-(*)-HT24	27	54
	12	Prefix(†)-12-(*)-HT24	30	60
	18	Prefix(†)-18-(*)-HT24	33	66
	24	Prefix(†)-24-(*)-HT24	36	72
	30	Prefix(†)-30-(*)-HT24	39	78
	36	Prefix(†)-36-(*)-HT24	42	84
36	06	Prefix(†)-06-(*)-HT36	39	78
	12	Prefix(†)-12-(*)-HT36	42	84
	18	Prefix(†)-18-(*)-HT36	45	90
	24	Prefix(†)-24-(*)-HT36	48	96
	30	Prefix(†)-30-(*)-HT36	51	102
	36	Prefix(†)-36-(*)-HT36	54	108

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
 Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

One Piece Cable Tray

Horizontal Cross



Dimension / Information

Part Numbering System

ALUF 3 24 V HX 12

Prefix: ALUF, SPUF, SHUF, SSUF
Width: 3, 24, 36
Siderail Depth: 3
Bottom Style: V, HX
Fitting Type: HX
Nominal Radius: 12

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)
Inside Tray Widths: **6, 12, 18, 24, 30, 36**
Nominal Radius: **12, 24, 36**
Bottom Styles: **V**– Ventilated, **S**– Solid
Side Rail Depth: **2", 3", 6"**

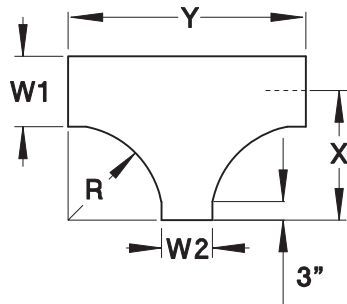
Horizontal CROSS

Nominal Radius		Catalogue Number	Dimensions	
R	Width		X	Y
12	06	Prefix(t)-06-(*)-HX12	15	30
	12	Prefix(t)-12-(*)-HX12	18	36
	18	Prefix(t)-18-(*)-HX12	21	42
	24	Prefix(t)-24-(*)-HX12	24	48
	30	Prefix(t)-30-(*)-HX12	27	54
	36	Prefix(t)-36-(*)-HX12	30	60
24	06	Prefix(t)-06-(*)-HX24	27	54
	12	Prefix(t)-12-(*)-HX24	30	60
	18	Prefix(t)-18-(*)-HX24	33	66
	24	Prefix(t)-24-(*)-HX24	36	72
	30	Prefix(t)-30-(*)-HX24	39	78
	36	Prefix(t)-36-(*)-HX24	42	84
36	06	Prefix(t)-06-(*)-HX36	39	78
	12	Prefix(t)-12-(*)-HX36	42	84
	18	Prefix(t)-18-(*)-HX36	45	90
	24	Prefix(t)-24-(*)-HX36	48	96
	30	Prefix(t)-30-(*)-HX36	51	102
	36	Prefix(t)-36-(*)-HX36	54	108

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Tees include 2 pairs / Crosses include 3 pairs of splice plates with hardware.

Horizontal Reducing Tee

One Piece Cable Tray



Horizontal Reducing Tee

Part Numbering System

ALUF 3 2412 V RT 12

Prefix
ALUF, SPUF,
SHUF, SSUF

Width 1
Siderail
Depth

Width 2
Bottom
Style

Fitting
Type

Nominal
Radius

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)

Widths 1: **36, 30, 24, 18, 12**

Widths 2: **30, 24, 18, 12, 6**

Nominal Radius: **12, 24, 36**

Bottom Styles: **V**– Ventilated, **S**– Solid

Side Rail Depth: **2", 3", 6"**

One Piece
Fittings

Dimension / Information

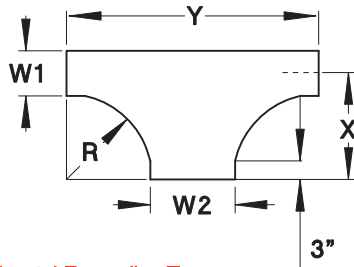
Horizontal REDUCING TEE

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
36	30	Prefix(†)-3630-(*)-RT(+)	30	54	42	78	54	102	66	126
	24	Prefix(†)-3624-(*)-RT(+)	30	48	42	72	54	96	66	120
	18	Prefix(†)-3618-(*)-RT(+)	30	42	42	66	54	90	66	114
	12	Prefix(†)-3612-(*)-RT(+)	30	36	42	60	54	84	66	108
	06	Prefix(†)-3606-(*)-RT(+)	30	30	42	54	54	78	66	102
30	24	Prefix(†)-3024-(*)-RT(+)	27	48	39	72	51	96	63	120
	18	Prefix(†)-3018-(*)-RT(+)	27	42	39	66	51	90	63	114
	12	Prefix(†)-3012-(*)-RT(+)	27	36	39	60	51	84	63	108
	06	Prefix(†)-3006-(*)-RT(+)	27	30	39	54	51	78	63	102
24	18	Prefix(†)-2418-(*)-RT(+)	24	42	36	66	48	90	60	114
	12	Prefix(†)-2412-(*)-RT(+)	24	36	36	60	48	84	60	108
	06	Prefix(†)-2406-(*)-RT(+)	24	30	36	54	48	78	60	102
18	12	Prefix(†)-1812-(*)-RT(+)	21	36	33	60	45	84	57	108
	06	Prefix(†)-1806-(*)-RT(+)	21	30	33	54	45	78	57	102
12	06	Prefix(†)-1206-(*)-RT(+)	18	30	30	54	42	78	54	102

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

One Piece Cable Tray

Horizontal Expanding Tee



Horizontal Expanding Tee

Part Numbering System

ALUF 3 2430 V ET 12

Prefix: ALUF, SPUF, SHUF, SSUF
Width 1: 3
Width 2: 24
Fitting Type: V
Bottom Style: ET
Nominal Radius: 12
Siderail Depth: 30
Bottom Style: V

Selection Guide

Prefix: Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)
Tray Widths W1: **30, 24, 18, 12, 6**
Tray Widths W2: **36, 30, 24, 18, 12**
Nominal Radius: **12, 24, 36, 48**
Bottom Styles: **V**– Ventilated, **S**– Solid
Side Rail Depth: **2", 3", 6"**

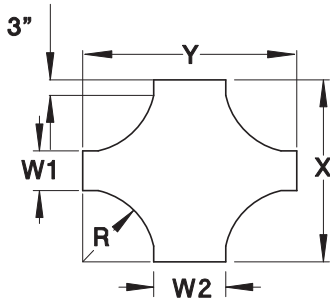
Dimension / Information

Horizontal EXPANDING TEE										
Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	Prefix(†)-3036-(*)-ET(+)	27	60	39	84	51	108	63	132
24	30	Prefix(†)-2430-(*)-ET(+)	24	54	36	78	48	102	60	126
	36	Prefix(†)-2436-(*)-ET(+)	24	60	36	84	48	108	60	132
18	24	Prefix(†)-1824-(*)-ET(+)	21	48	33	72	45	96	57	120
	30	Prefix(†)-1830-(*)-ET(+)	21	54	33	78	45	102	57	126
	36	Prefix(†)-1836-(*)-ET(+)	21	60	33	84	45	108	57	132
12	18	Prefix(†)-1218-(*)-ET(+)	18	42	30	66	42	90	54	114
	24	Prefix(†)-1224-(*)-ET(+)	18	48	30	72	42	96	54	120
	30	Prefix(†)-1230-(*)-ET(+)	18	54	30	78	42	102	54	126
	36	Prefix(†)-1236-(*)-ET(+)	18	60	30	84	42	108	54	132
06	12	Prefix(†)-0612-(*)-ET(+)	15	36	27	60	39	84	51	108
	18	Prefix(†)-0618-(*)-ET(+)	15	42	27	66	39	90	51	114
	24	Prefix(†)-0624-(*)-ET(+)	15	48	27	72	39	96	51	120
	30	Prefix(†)-0630-(*)-ET(+)	15	54	27	78	39	102	51	126
	36	Prefix(†)-0636-(*)-ET(+)	15	60	27	84	39	108	51	132

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 2 pairs of splice plates with hardware.

Horizontal Expanding Cross

One Piece Cable Tray



Part Numbering System

ALUF 6 2430 V EX 12

Prefix: ALUF, SPUF, SHUF, SSUF
Width 1: 6
Width 2: 2430
Fitting Type: V
Nominal Radius: EX 12
Siderail Depth: Bottom Style

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)

Tray Widths W1: **30, 24, 18, 12, 6**

Tray Widths W2: **36, 30, 24, 18, 12**

Nominal Radius: **12, 24, 36, 48**

Bottom Styles: **V**– Ventilated, **S**– Solid

Side Rail Depth: **2", 3", 6"**

Dimension / Information

One Piece Fittings

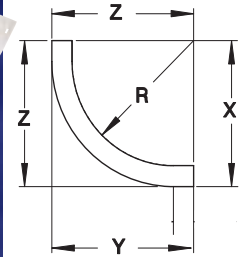
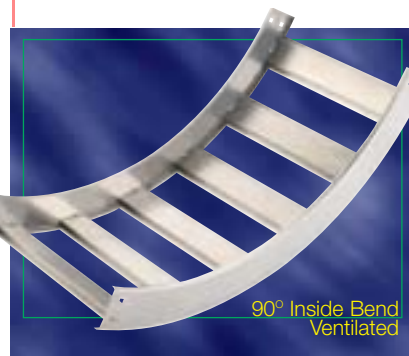
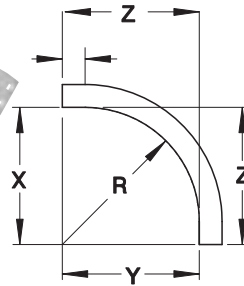
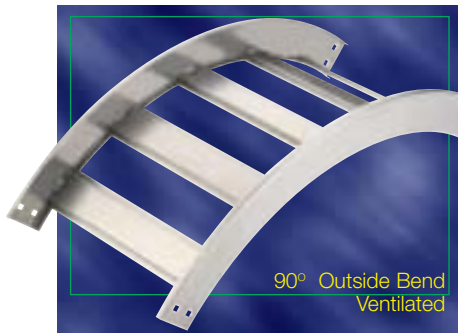
Horizontal EXPANDING CROSS

Widths		Catalogue Number	(+ 12" Nominal Radius		(+ 24" Nominal Radius		(+ 36" Nominal Radius		(+ 48" Nominal Radius	
W1	W2		X	Y	X	Y	X	Y	X	Y
30	36	Prefix(†)-3036-(*)-EX(+)	54	60	78	84	102	108	126	132
24	30	Prefix(†)-2430-(*)-EX(+)	48	54	72	78	96	102	120	126
	36	Prefix(†)-2436-(*)-EX(+)	48	60	72	84	96	108	120	132
18	24	Prefix(†)-1824-(*)-EX(+)	42	48	66	72	90	96	114	120
	30	Prefix(†)-1830-(*)-EX(+)	42	54	66	78	90	102	114	126
	36	Prefix(†)-1836-(*)-EX(+)	42	60	66	84	90	108	114	132
12	18	Prefix(†)-1218-(*)-EX(+)	36	42	60	66	84	90	108	114
	24	Prefix(†)-1224-(*)-EX(+)	36	48	60	72	84	96	108	120
	30	Prefix(†)-1230-(*)-EX(+)	36	54	60	78	84	102	108	126
	36	Prefix(†)-1236-(*)-EX(+)	36	60	60	84	84	108	108	132
06	12	Prefix(†)-0612-(*)-EX(+)	30	36	54	60	78	84	102	108
	18	Prefix(†)-0618-(*)-EX(+)	30	42	54	66	78	90	102	114
	24	Prefix(†)-0624-(*)-EX(+)	30	48	54	72	78	96	102	120
	30	Prefix(†)-0630-(*)-EX(+)	30	54	54	78	78	102	102	126
	36	Prefix(†)-0636-(*)-EX(+)	30	60	54	84	78	108	102	132

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert radius (12" - 48").
Includes 3 pairs of splice plates with hardware.

One Piece Cable Tray

Vertical Bends 90°



Dimension / Information

Part Numbering System

ALUF 3 24 V VI90 12

Prefix: ALUF, SPUF, SHUF, SSUF
Width: 12
Fitting Type: V, VI
Nominal Radius: 90
Siderail Depth: 3
Bottom Style: 24
Angle: 90

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)

Inside Tray Widths: **6, 12, 18, 24, 30, 36**

Angle: **90°**

Nominal Radius: **12, 24, 36**

Bottom Styles: **V**– Ventilated, **S**– Solid

Side Rail Depth: **2", 3", 6"**

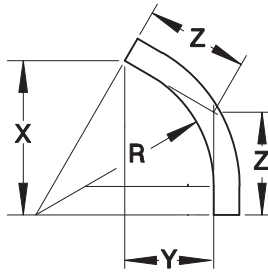
90° Vertical BEND

Nominal Radius	R	Width	Catalogue Number	(+) VO Siderail Height 2", 3", 6"			(+) VI Siderail Height								
				X	Y	Z	2"			3"			6"		
							X	Y	Z	X	Y	Z	X	Y	Z
12	06		Prefix(†)-06-(*)-(+)90-12												
	12		Prefix(†)-12-(*)-(+)90-12												
	18		Prefix(†)-18-(*)-(+)90-12	12	12	12	13-7/8	13-7/8	13-7/8	15-5/8	15-5/8	15-5/8	18-3/16	18-3/16	18-3/16
	24		Prefix(†)-24-(*)-(+)90-12												
	36		Prefix(†)-36-(*)-(+)90-12												
24	06		Prefix(†)-06-(*)-(+)90-24												
	12		Prefix(†)-12-(*)-(+)90-24												
	18		Prefix(†)-18-(*)-(+)90-24	24	24	24	25-7/8	25-7/8	25-7/8	27-5/8	27-5/8	27-5/8	30-3/16	30-3/16	30-3/16
	24		Prefix(†)-24-(*)-(+)90-24												
	30		Prefix(†)-30-(*)-(+)90-24												
36	06		Prefix(†)-06-(*)-(+)90-36												
	12		Prefix(†)-12-(*)-(+)90-36												
	18		Prefix(†)-18-(*)-(+)90-36	36	36	36	37-7/8	37-7/8	37-7/8	39-5/8	39-5/8	39-5/8	42-3/16	42-3/16	42-3/16
	24		Prefix(†)-24-(*)-(+)90-36												
	30		Prefix(†)-30-(*)-(+)90-36												
	36		Prefix(†)-36-(*)-(+)90-36												

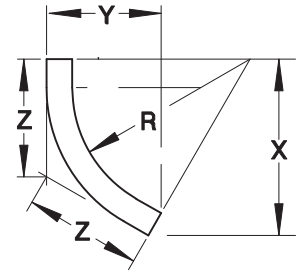
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

Vertical Bends 60°

One Piece Cable Tray



60° Outside Bend



60° Inside Bend

Dimension / Information

Part Numbering System

ALUF	3	12	V	VI60	12
Prefix ALUF, SPUF, SHUF, SSUF	Siderail Depth	Width	Fitting Type	Angle	Nominal Radius

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)
 Inside Tray Widths: **6, 12, 18, 24, 30, 36**
 Angle: **60°**
 Nominal Radius: **12, 24, 36**
 Bottom Styles: **V**– Ventilated, **S**– Solid
 Side Rail Depth: **2", 3", 6"**

One Piece
Fittings

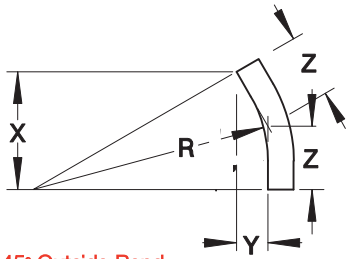
60° Vertical BEND

Nominal Radius	R	Width	Catalogue Number	(+ VO Siderail Height 2", 3", 6"			(+ VI Siderail Height								
				X	Y	Z	2"			3"			6"		
12	06		Prefix(t)-06-(*)-(+)60-12												
	12		Prefix(t)-12-(*)-(+)60-12												
	18		Prefix(t)-18-(*)-(+)60-12												
	24		Prefix(t)-24-(*)-(+)60-12												
	30		Prefix(t)-30-(*)-(+)60-12												
	36		Prefix(t)-36-(*)-(+)60-12												
				10-3/8,	6,	6-15/16	12,	7-7/8,	8	13-1/2,	9-5/8,	9	15-3/4,	12-3/16,	10-1/2
24	06		Prefix(t)-06-(*)-(+)60-24												
	12		Prefix(t)-12-(*)-(+)60-24												
	18		Prefix(t)-18-(*)-(+)60-24												
	24		Prefix(t)-24-(*)-(+)60-24												
	30		Prefix(t)-30-(*)-(+)60-24												
	36		Prefix(t)-36-(*)-(+)60-24												
				20-13/16,	12,	13-7/8	22-7/16,	13-7/8,	14-15/16	23-15/16,	15-5/8,	15-15/16	26-1/8,	18-3/16,	17-7/16
36	06		Prefix(t)-06-(*)-(+)60-36												
	12		Prefix(t)-12-(*)-(+)60-36												
	18		Prefix(t)-18-(*)-(+)60-36												
	24		Prefix(t)-24-(*)-(+)60-36												
	30		Prefix(t)-30-(*)-(+)60-36												
	36		Prefix(t)-36-(*)-(+)60-36												
				31-3/16,	18	20-13/16	32-13/16,	19-7/8,	21-7/8	34-5/16,	21-5/8,	22-7/8	36-1/2,	24-3/16,	24-3/8

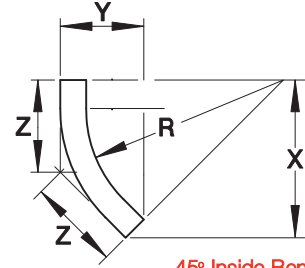
(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
 Includes 1 pair of splice plates with hardware.

One Piece Cable Tray

Vertical Bends 45°



45° Outside Bend



45° Inside Bend

Dimension / Information

Part Numbering System

ALUF 3 12 V VI45 12

Prefix: ALUF, SPUF, SHUF, SSUF
Width: 3, 12, 18, 24, 30, 36
Fitting Type: V (Ventilated), S (Solid)
Angle: 45°
Nominal Radius: 12, 24, 36

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)

Inside Tray Widths: **6, 12, 18, 24, 30, 36**

Angle: **45°**

Nominal Radius: **12, 24, 36**

Bottom Styles: **V**– Ventilated, **S**– Solid

Side Rail Depth: **2", 3", 6"**

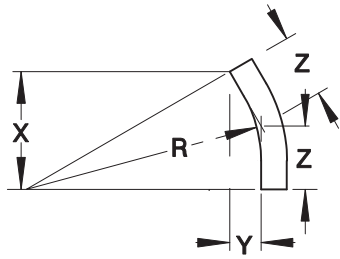
45° Vertical BEND

Nominal Radius	R	Width	Catalogue Number	(+) VO Siderail			(+) VI Siderail Height								
				Height 2", 3", 6"			2"			3"			6"		
				X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	06		Prefix(t)-06-(*)-(+)45-12												
	12		Prefix(t)-12-(*)-(+)45-12												
	18		Prefix(t)-18-(*)-(+)45-12												
	24		Prefix(t)-24-(*)-(+)45-12												
	30		Prefix(t)-30-(*)-(+)45-12												
	36		Prefix(t)-36-(*)-(+)45-12												
24	06		Prefix(t)-06-(*)-(+)45-24												
	12		Prefix(t)-12-(*)-(+)45-24												
	18		Prefix(t)-18-(*)-(+)45-24												
	24		Prefix(t)-24-(*)-(+)45-24												
	30		Prefix(t)-30-(*)-(+)45-24												
	36		Prefix(t)-36-(*)-(+)45-24												
36	06		Prefix(t)-06-(*)-(+)45-36												
	12		Prefix(t)-12-(*)-(+)45-36												
	18		Prefix(t)-18-(*)-(+)45-36												
	24		Prefix(t)-24-(*)-(+)45-36												
	30		Prefix(t)-30-(*)-(+)45-36												
	36		Prefix(t)-36-(*)-(+)45-36												

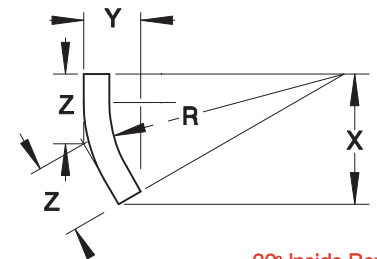
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

Vertical Bends 30°

One Piece Cable Tray



30° Outside Bend



30° Inside Bend

Dimension / Information

Part Numbering System

ALUF 3 06 V VI30 12

Prefix: ALUF, SPUF, SHUF, SSUF
Width: 3
Fitting Type: 06
Nominal Radius: V
Siderail Depth: 30
Bottom Style: 12

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)

Inside Tray Widths: **6, 12, 18, 24, 30, 36**

Angle: **30°**

Nominal Radius: **12, 24, 36**

Bottom Styles: **V**– Ventilated, **S**– Solid

Side Rail Depth: **2", 3", 6"**

One Piece
Fittings

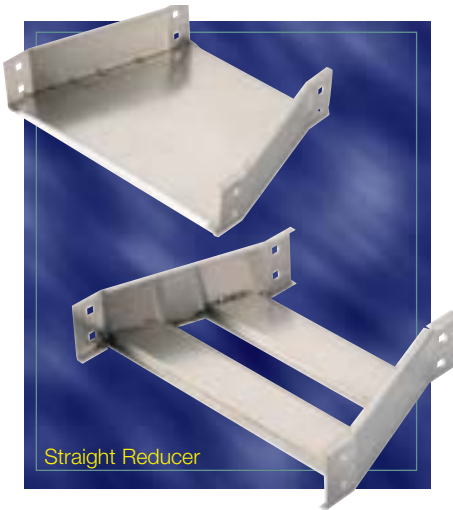
30° Vertical BEND

Nominal Radius	R Width	Catalogue Number	(+) VO Siderail			(+) VI Siderail Height								
			Height 2", 3", 6"			2"			3"			6"		
			X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
12	06	Prefix(t)-06-(*)-(+)30-12												
	12	Prefix(t)-12-(*)-(+)30-12												
	18	Prefix(t)-18-(*)-(+)30-12												
	24	Prefix(t)-24-(*)-(+)30-12	6,	1-5/8,	3-3/16	6-15/16,	3-1/2,	3-11/16	7-13/16,	5-1/4,	4-3/16	9-1/8,	7-13/16,	4-7/8
	30	Prefix(t)-30-(*)-(+)30-12												
	36	Prefix(t)-36-(*)-(+)30-12												
24	06	Prefix(t)-06-(*)-(+)30-24												
	12	Prefix(t)-12-(*)-(+)30-24												
	18	Prefix(t)-18-(*)-(+)30-24												
	24	Prefix(t)-24-(*)-(+)30-24	12,	3-3/16,	6-7/16	12-15/16,	5-1/16,	6-15/16	13-13/16,	6-13/16,	7-3/8	15-1/8,	9-3/8,	8-1/16
	30	Prefix(t)-30-(*)-(+)30-24												
	36	Prefix(t)-36-(*)-(+)30-24												
36	06	Prefix(t)-06-(*)-(+)30-36												
	12	Prefix(t)-12-(*)-(+)30-36												
	18	Prefix(t)-18-(*)-(+)30-36												
	24	Prefix(t)-24-(*)-(+)30-36	18,	4-13/16,	9-5/8	18-15/16,	6-11/16,	10-1/8	19-13/16,	8-7/16,	10-5/8	21-1/8,	11,	11-5/16
	30	Prefix(t)-30-(*)-(+)30-36												
	36	Prefix(t)-36-(*)-(+)30-36												

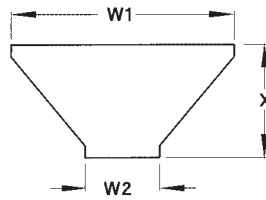
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

One Piece Cable Tray

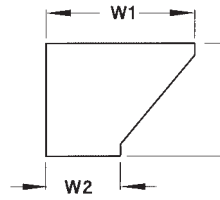
Reducers



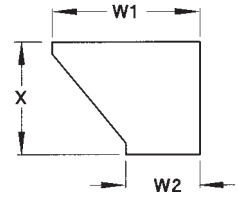
Straight Reducer



Straight Reducer



Offset Reducer - Right



Offset Reducer - Left

Dimension / Information

Part Numbering System

ALUF 3 3624 V HLR

Prefix
ALUF, SPUF,
SHUF, SSUF

Width 1 Width 2
Siderail
Depth

Fitting
Type
Bottom
Style

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.),
SHUF(Hot Dip Galv.), **SSUF**(Stainless Steel)

Tray Widths W1: **36, 30, 24, 18, 12**

Tray Widths W2: **30, 24, 18, 12, 6**

Bottom Styles: **V**- Ventilated, **S**- Solid

Side Rail Depth: **2", 3", 6"**

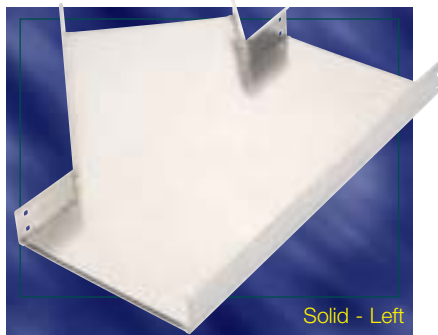
Horizontal REDUCERS

Widths		LH Reducer		Straight Reducer (Concentric)		RH Reducer	
W1	W2	Catalogue Number	Dim. X	Catalogue Number	Dim. X	Catalogue Number	Dim. X
36	30	Prefix(t)-36-30-(*)-HLR	15-7/16	Prefix(t)-36-30-(*)-HSR	13-3/4	Prefix(t)-36-30-(*)-HRR	15-7/16
	24	Prefix(t)-36-24-(*)-HLR	18-15/16	Prefix(t)-36-24-(*)-HSR	15-7/16	Prefix(t)-36-24-(*)-HRR	18-15/16
	18	Prefix(t)-36-18-(*)-HLR	22-3/8	Prefix(t)-36-18-(*)-HSR	17-3/8	Prefix(t)-36-18-(*)-HRR	22-3/8
	12	Prefix(t)-36-12-(*)-HLR	25-7/8	Prefix(t)-36-12-(*)-HSR	18-5/16	Prefix(t)-36-12-(*)-HRR	25-7/8
	06	Prefix(t)-36-06-(*)-HLR	29-5/16	Prefix(t)-36-06-(*)-HSR	20-11/16	Prefix(t)-36-06-(*)-HRR	29-5/16
30	24	Prefix(t)-30-24-(*)-HLR	15-7/16	Prefix(t)-30-24-(*)-HSR	13-3/4	Prefix(t)-30-24-(*)-HRR	15-7/16
	18	Prefix(t)-30-18-(*)-HLR	18-15/16	Prefix(t)-30-18-(*)-HSR	15-7/16	Prefix(t)-30-18-(*)-HRR	18-15/16
	12	Prefix(t)-30-12-(*)-HLR	22-3/8	Prefix(t)-30-12-(*)-HSR	17-3/16	Prefix(t)-30-12-(*)-HRR	22-3/8
	06	Prefix(t)-30-06-(*)-HLR	25-7/8	Prefix(t)-30-06-(*)-HSR	18-15/16	Prefix(t)-30-06-(*)-HRR	25-7/8
24	18	Prefix(t)-24-18-(*)-HLR	15-7/16	Prefix(t)-24-18-(*)-HSR	13-3/4	Prefix(t)-24-18-(*)-HRR	15-7/16
	12	Prefix(t)-24-12-(*)-HLR	18-15/16	Prefix(t)-24-12-(*)-HSR	15-7/16	(Prefix(t)-24-12-(*)-HRR	18-15/16
	06	Prefix(t)-24-06-(*)-HLR	22-3/8	Prefix(t)-24-06-(*)-HSR	17-3/16	Prefix(t)-24-06-(*)-HRR	22-3/8
18	12	Prefix(t)-18-12-(*)-HLR	15-7/16	Prefix(t)-18-12-(*)-HSR	13-3/4	Prefix(t)-18-12-(*)-HRR	15-7/16
	06	Prefix(t)-18-06-(*)-HLR	18-15/16	Prefix(t)-18-06-(*)-HSR	15-7/16	Prefix(t)-18-06-(*)-HRR	18-15/16
12	06	Prefix(t)-12-06-(*)-HLR	15-7/16	Prefix(t)-12-06-(*)-HSR	13-3/4	Prefix(t)-12-06-(*)-HRR	15-7/16

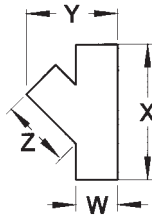
(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number.
Includes 1 pair of splice plates with hardware.

Horizontal Wye 45°

One Piece Cable Tray



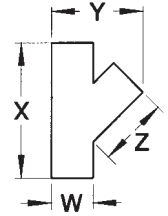
Solid - Left



Left Hand Wye



Ventilated - Left



Right Hand Wye

Dimension / Information

Part Numbering System

ALUF-6-24-V-HYL

Fitting Material
ALUF, SPUF,
SHUF, SSUF

Width

Siderail
Depth

Bottom
Style

Fitting
Type

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)

Inside Tray Widths: **6, 12, 18, 24, 30, 36**

Bottom Styles: **V**- Ventilated, **S**- Solid

Side Rail Depth: **2", 3", 6"**

One Piece
Fittings

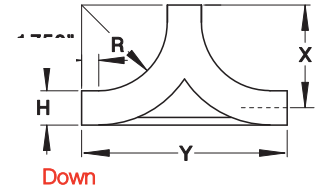
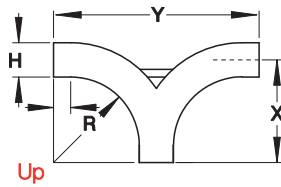
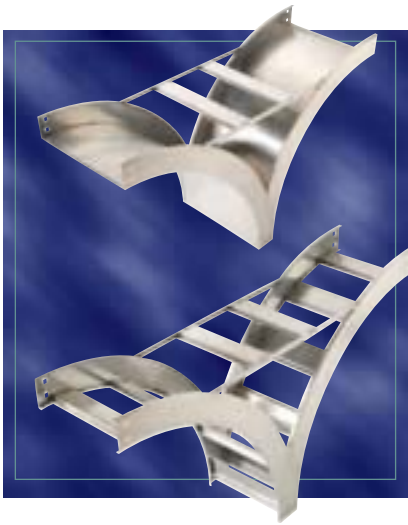
45° Horizontal WYE

Width	Left Hand Wye Catalogue Number	Right Hand Wye Catalogue Number	Dimensions		
			X	Y	Z
06	Prefix(t)-06-(*)-HYL	Prefix(t)-06-(*)-HYR	18-5/16	14-13/16	12-7/16
12	Prefix(t)-12-(*)-HYL	Prefix(t)-12-(*)-HYR	26-3/4	25	18-7/16
18	Prefix(t)-18-(*)-HYL	Prefix(t)-18-(*)-HYR	35-1/4	35-1/4	24-7/16
24	Prefix(t)-24-(*)-HYL	Prefix(t)-24-(*)-HYR	43-1/2	45-1/2	30-7/16
30	Prefix(t)-30-(*)-HYL	Prefix(t)-30-(*)-HYR	52-1/4	55-3/4	36-7/16
36	Prefix(t)-36-(*)-HYL	Prefix(t)-36-(*)-HYR	60-11/16	66	42-7/16

(t) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. (+) Insert "VO" for vertical outside or "VI" for vertical inside.
Includes 1 pair of splice plates with hardware.

One Piece Cable Tray

Vertical Tee Up / Down



Dimension / Information

Part Numbering System

Prefix	Width	Fitting Type	Nominal Radius
ALUF, SPUF, SHUF, SSUF	6, 12, 18, 24, 30, 36	V, S	12, 24, 36
	Siderail Depth	Bottom Style	

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)

Inside Tray Widths: **6, 12, 18, 24, 30, 36**

Nominal Radius: **12, 24, 36**

Bottom Styles: **V**– Ventilated, **S**– Solid

Side Rail Depth: **2", 3", 6"**

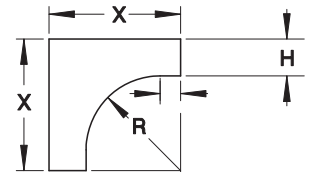
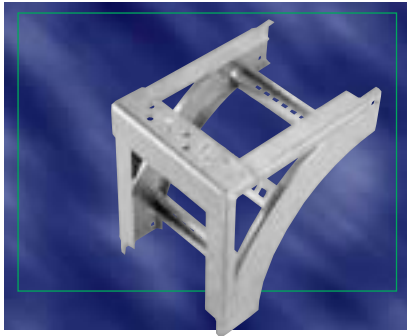
Vertical TEE Up / Down

Nominal Radius	Vertical Tee Up	Vertical Tee Down	Siderail Height "H"					
			2"		3"		6"	
			X	Y	X	Y	X	Y
12	06 Prefix(†)-06-(*)-VTU12	Prefix-06-(*)-VTD12	12-15/16	25-7/8	13-13/16	27-5/8	15-1/8	30-3/16
	12 Prefix(†)-12-(*)-VTU12	Prefix-12-(*)-VTD12						
	18 Prefix(†)-18-(*)-VTU12	Prefix-18-(*)-VTD12						
	24 Prefix(†)-24-(*)-VTU12	Prefix-24-(*)-VTD12						
	30 Prefix(†)-30-(*)-VTU12	Prefix-30-(*)-VTD12						
	36 Prefix(†)-36-(*)-VTU12	Prefix-36-(*)-VTD12						
24	06 Prefix(†)-06-(*)-VTU24	Prefix-06-(*)-VTD24	24-15/16	49-7/8	25-13/16	51-5/8	27-1/8	54-3/16
	12 Prefix(†)-12-(*)-VTU24	Prefix-12-(*)-VTD24						
	18 Prefix(†)-18-(*)-VTU24	Prefix-18-(*)-VTD24						
	24 Prefix(†)-24-(*)-VTU24	Prefix-24-(*)-VTD24						
	30 Prefix(†)-30-(*)-VTU24	Prefix-30-(*)-VTD24						
	36 Prefix(†)-36-(*)-VTU24	Prefix-36-(*)-VTD24						
36	06 Prefix(†)-06-(*)-VTU36	Prefix-06-(*)-VTD36	36-15/16	73-7/8	N/A	N/A	39-1/8	78-3/16
	12 Prefix(†)-12-(*)-VTU36	Prefix-12-(*)-VTD36						
	18 Prefix(†)-18-(*)-VTU36	Prefix-18-(*)-VTD36						
	24 Prefix(†)-24-(*)-VTU36	Prefix-24-(*)-VTD36						
	30 Prefix(†)-30-(*)-VTU36	Prefix-30-(*)-VTD36						
	36 Prefix(†)-36-(*)-VTU36	Prefix-36-(*)-VTD36						

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

Cable Fittings

One Piece Cable Tray



Dimension / Information

Part Numbering System

SPUF	3	24	V	CS	12
Prefix SPF SHF, SSF	Width		Fitting Type		Nominal Radius
	Siderail Depth		Bottom Style		

Selection Guide

Prefix: **ALUF**(Aluminum), **SPUF**(Pre-Galv.), **SHUF**(Hot Dip Galv.), **SSUF**(Stainless Steel)
 Inside Tray Widths: **6, 12, 18, 24, 30, 36**
 Nominal Radius: **12, 24, 36**
 Bottom Styles: **V**– Ventilated, **S**– Solid
 Side Rail Depth: **2", 3", 6"**

One Piece
Fittings

Cable Support Fitting

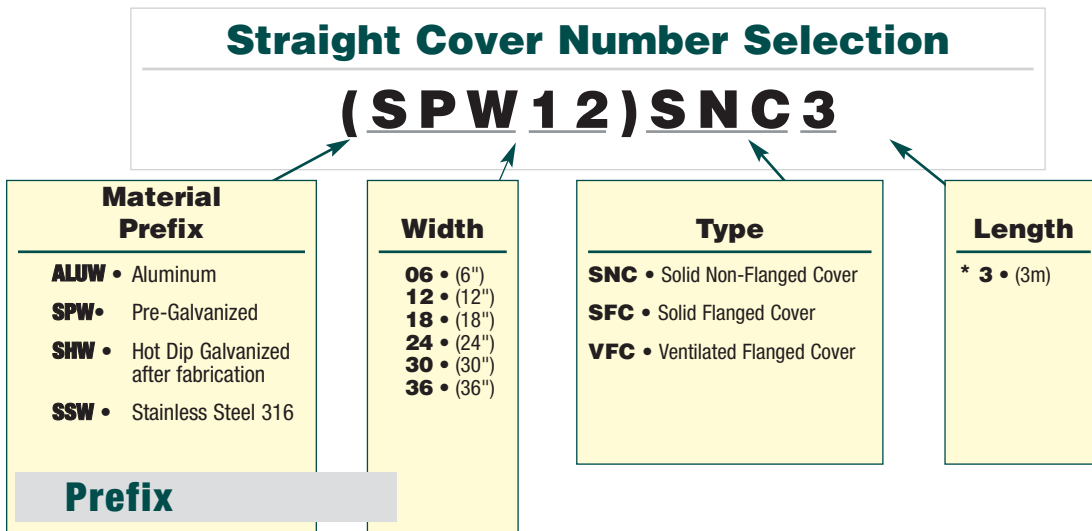
Nominal Radius		Siderail Height "H"		
		2"	3"	6"
R	Width	X		
12	06	13-7/8	15-5/8	18-3/16
	12			
	18			
	24			
	30			
	36			
24	06	25-7/8	27-5/8	30-3/16
	12			
	18			
	24			
	30			
	36			
36	06	37-7/8	39-5/8	42-3/16
	12			
	18			
	24			
	30			
	36			

(†) Insert side rail depth. (*) Insert bottom style to complete Catalogue Number. Includes 2 pairs of splice plates with hardware.

One Piece Cable Tray

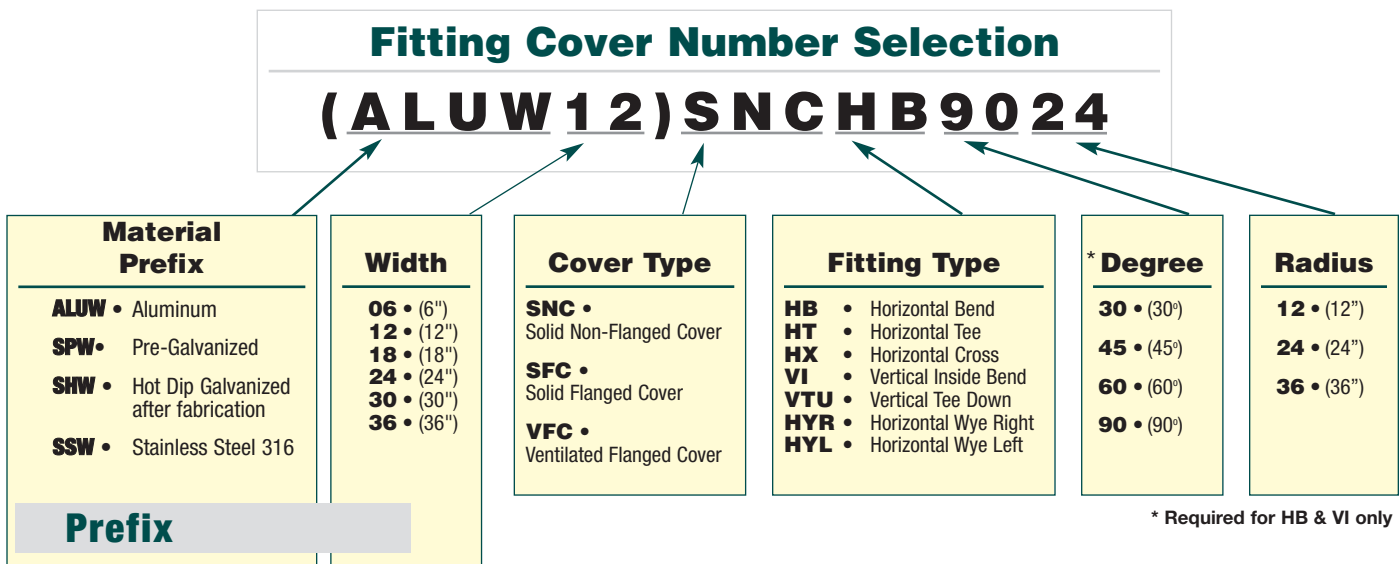
Accessories and Covers

Straight Covers



* For SHW covers, maximum lengths are 72" and 1500 mm.

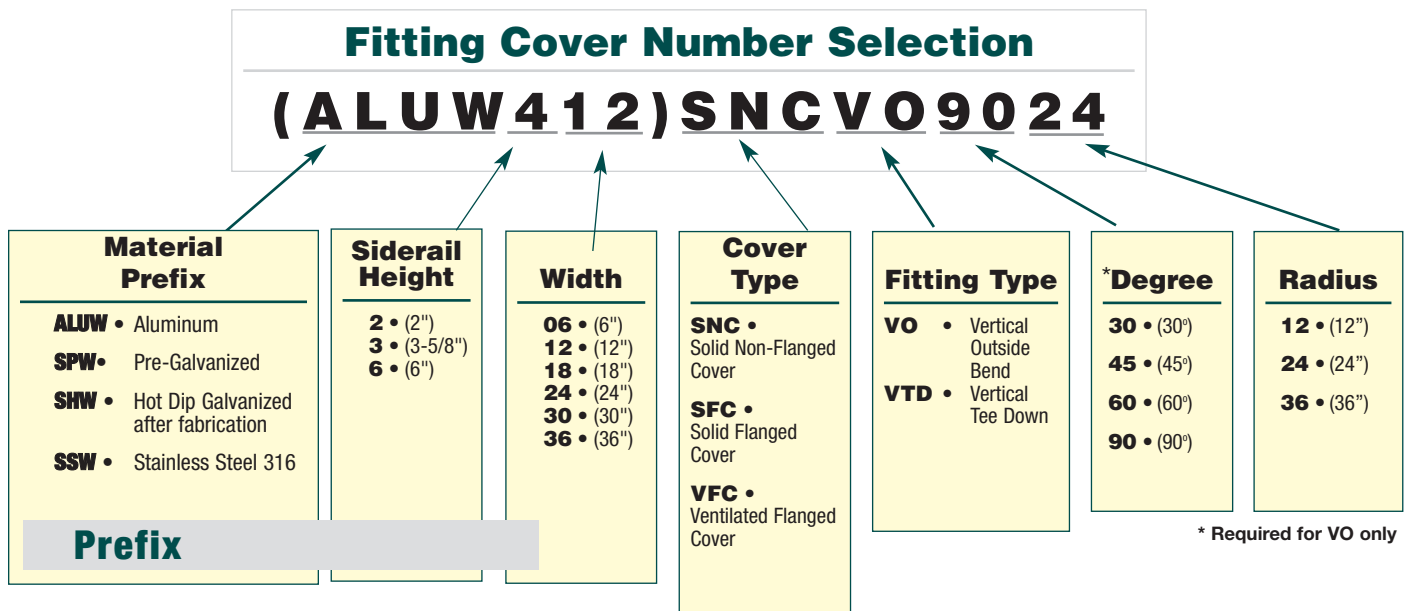
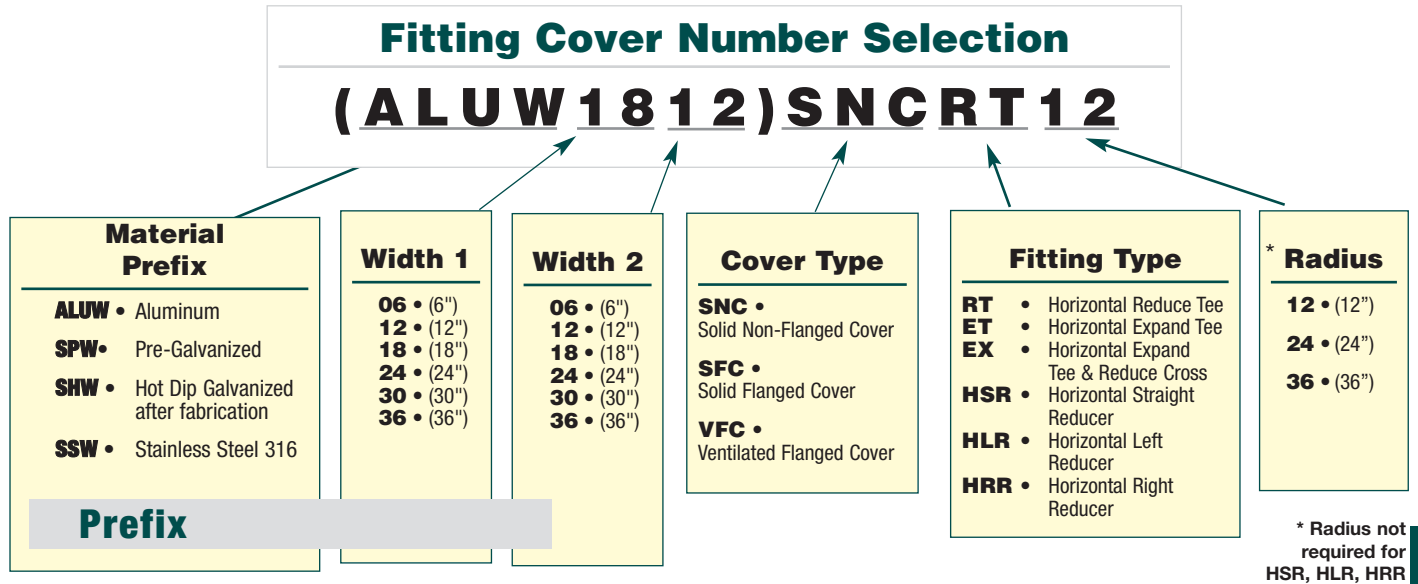
Fitting Covers



Note: Cover mounting hardware sold separately.

Accessories and Covers

Fitting Covers (cont'd)



Note: Cover mounting hardware sold separately.

One Piece Cable Tray

Accessories and Covers

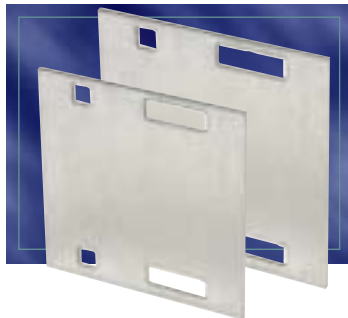
Standard Splice Plate



Packaged in pairs with zinc plated hardware. Provided as standard with each straight and/or fitting.

Material Prefix	Siderail Height	Catalogue Number
ALUW	2"	(Prefix)-2-SSP
SHW	3"	(Prefix)-3-SSP
SPW	6"	(Prefix)-6-SSP
SSW		

Expansion Splice Plate



Allows for a 1" expansion or contraction of tray system. Packaged in pairs with hardware.

Material Prefix	Siderail Height	Catalogue Number
ALUW	2"	(Prefix)-2-ESP
SHW	3"	(Prefix)-3-ESP
SPW	6"	(Prefix)-6-ESP
SSW		

Horizontal Adjustable Plate

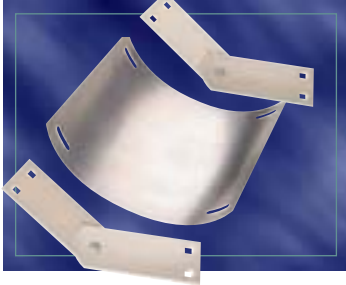


Adjustable hinge plates provide maximum horizontal installation flexibility. Furnished as a kit with hardware.

Material Prefix	Siderail Height	Width	Catalogue Number
ALUW	2"	06"	(Prefix)-2-**-HSP
SPUW	3"	12"	(Prefix)-3-**-HSP
SSUW	6"	18"	(Prefix)-6-**-HSP
		24"	
		30"	
		36"	

** Insert width

Vertical Adjustable Plate

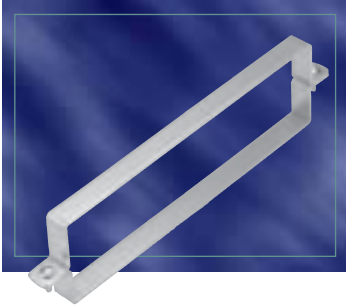


Hinged vertical plates provide maximum flexibility for changes in elevation. Furnished as a kit with hardware.

Material Prefix	Height	Width	Catalogue Number
ALUW	2"	06"	(Prefix)-2-**-VSP
SPUW	3"	12"	(Prefix)-3-**-VSP
SSUW	6"	18"	(Prefix)-6-**-VSP
		24"	
		30"	
		36"	

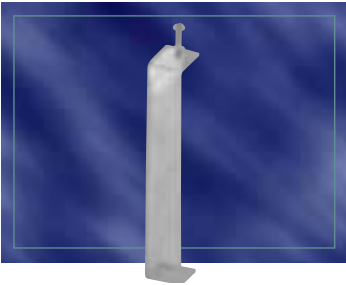
** Insert width

Heavy Duty Cover Clamp



Material Prefix	Height	Catalogue Number
ALUW	2"	(Prefix)-2-HCC
SPW	3"	(Prefix)-3-HCC
SHW	6"	(Prefix)-6-HCC
SSW		

Cover Clamp



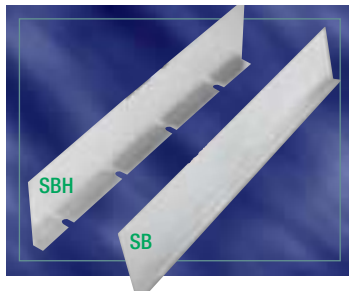
Rigid indoor cover clamp for flat and flanged covers.

Material Prefix	Height	Catalogue Number
SPW	2"	(Prefix)-2-SCC
SSW	3"	(Prefix)-3-SCC
	6"	(Prefix)-6-SCC

One Piece Cable Tray

Accessories and Covers

Horizontal Barrier Strips



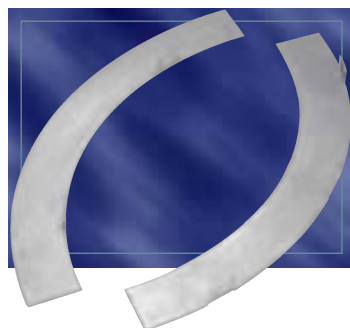
Barrier Strips provide a method of separating cables in tray and trough systems. Easily installed using supplied hardware or Barrier Strip Clamps (sold separately).

72" barriers are flexible for use with horizontal fittings.

Material Prefix	Height	Length	Catalogue Number
ALUW	2"	3 m	(Prefix)-2-SB-3
SPUW	3"		(Prefix)-3-SB-3
SSUW	6"		(Prefix)-6-SB-3
ALUW	2"	72"	(Prefix)-2-SBH-72
SPUW	3"		(Prefix)-3-SBH-72
SSUW	6"		(Prefix)-6-SBH-72

NOTE: 72" barriers provided with 3 SPW10SCR
3m barriers provided with 6 SPW10SCR

Vertical Barrier Strips

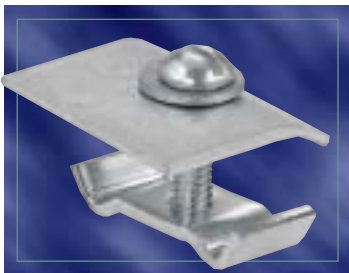


Material Prefix	Height	Inside Bend Catalogue Number	Outside Bend Catalogue Number	Angle	Radius
ALUW	2"	(Prefix)-2-VIB-(*)-(**)	Prefix-2-VOB-(*)-(**)	90	12
SPUW	3"	(Prefix)-3-VIB-(*)-(**)	Prefix-3-VOB-(*)-(**)	60	24
SSUW	6"	(Prefix)-6-VIB-(*)-(**)	Prefix-6-VOB-(*)-(**)	45 30	36

Preformed to fit all standard steel vertical bends.
Provided with hardware

(*) Insert Angle (**) Insert Radius

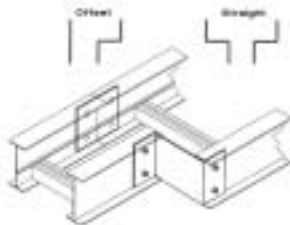
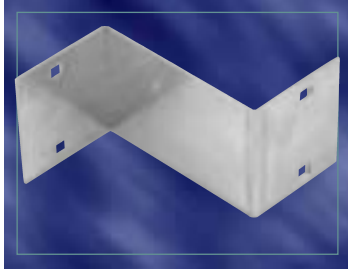
Barrier Strip Clamp



Barrier Strip Clamps mount Barrier Strips to Ladder rungs and Ventilated Trough bottoms. Complete mounting hardware supplied.

Material Prefix	Catalogue Number
SPW SSW	(Prefix)-BSC

Reducing Splice Plate

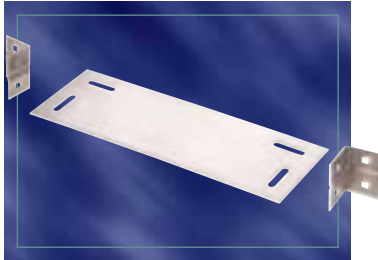


Used in pairs to provide a straight reduction or used with a Standard Splice Plate for an offset reduction. One per package with hardware

Material Prefix	Height	Width to Reduce	Catalogue Number
ALUW	2"	1.5"	(Prefix)-2-(*)-RSP
SPW	3"	3"	(Prefix)-3-(*)-RSP
SSW	6"	4.5"	(Prefix)-6-(*)-RSP
		6"	
		7.5"	
		9"	
		10.5"	
		12"	
		13.5"	
		15"	
		18"	
		21"	
		24"	
		27"	
		30"	

(*) Insert width to reduce

Horizontal Tee Branch



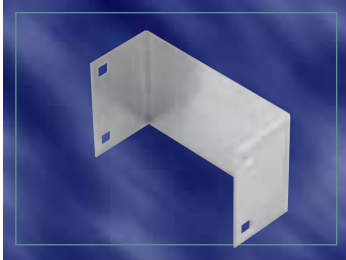
Material Prefix	Height	Width	Catalogue Number
ALUW	2"	6"	(Prefix)-2-(**)-HTB
SPUW	3"	12"	(Prefix)-3-(**)-HTB
SSUW	6"	18"	(Prefix)-6-(**)-HTB
		24"	
		30"	
		36"	

(**) Insert width

One Piece Cable Tray

Accessories and Covers

Closure End Plate

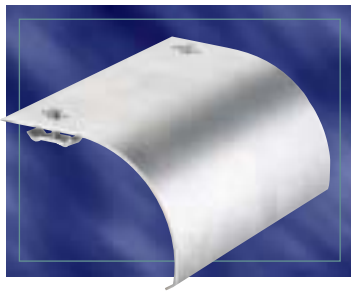


Provides closure for any tray end.
Hardware included.

Material Prefix	Height	Width	Catalogue Number
ALUW	2"	6"	(Prefix)-2-**-CEP
SPW	3"	12"	(Prefix)-3-**-CEP
SSW	6"	18"	(Prefix)-6-**-CEP
		24"	
		30"	
		36"	

** Insert Width

Drop-Out

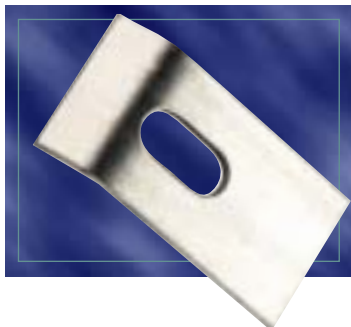


Designed to provide a smooth radiused surface at any position on the tray or trough bottom. Drop-Outs are easily attached using hardware provided. Standard Radius = 4".

Material Prefix	Width	Catalogue Number
ALUW	6"	(Prefix)-2-**-DOS
SPUW	12"	(Prefix)-3-**-DOS
SSPW	18"	(Prefix)-6-**-DOS
	24"	
	30"	
	36"	

** Insert Width

Standard Hold Down Clamp



Designed for most indoor installations.
Easy to use and install.
Order 3/8" hardware separately

Material Prefix	Catalogue Number
SPW SSW	(Prefix)-SHC
SPW SSW	(Prefix)-SHC-HDW

HDW = Supplied complete with 3/8" hardware.

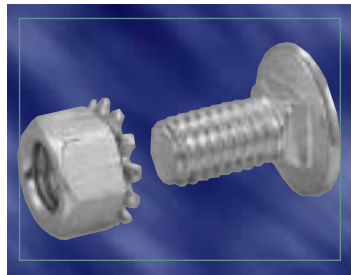
Combination Hold Down / Expansion Clamp



Order 3/8" hardware separately.

Material Prefix	Height	Catalogue Number
SPW	2"	(Prefix)-2-CCC
SSW	3"	(Prefix)-3-CCC
	6"	(Prefix)-6-CCC

Steel Tray Hardware



Wrap around design offers added protection for rugged applications and outdoor conditions.
Hardware included

Description	Material	Catalogue Number
1/4" Carriage Bolt	Zinc Plated Steel	SPW-1/4-CB
3/8" Carriage Bolt	Zinc Plated Steel	SPW-3/8-CB
1/4" Hex. Nut	Zinc Plated Steel	SPW-1/4-HN
3/8" Hex. Nut	Zinc Plated Steel	SPW-3/8-HN
3/8" Carriage Bolt	316 Stainless	SSW-3/8-CB
3/8" Hex. Nut	316 Stainless	SSW-3/8-HN
316 Stainless Steel Hardware Kit	316 Stainless	SSW-3/8-HWK*

* Contains 8 nuts, 8 bolts, 8 lock washers

Combination Hold Down / Cover Clamp



Material Prefix	Siderail Height	Catalogue Number
SPW	2"	(Prefix)-2-CCC
SSW	3"	(Prefix)-3-CCC
	6"	(Prefix)-6-CCC

* Contains 8 nuts, 8 bolts, 8 lock washers

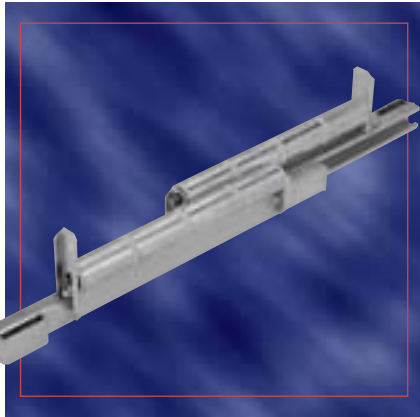
Why should rollers be used?

1. To reduce pulling stress on cables, avoiding undue fatigue or abrasions
2. Minimizes harmful 'shear' load being placed on cable trays
3. To reduce installation time

Why purchase the T&B Cable Roller System?

- Universal — fits virtually all tray systems
- Mounts from bottom of cable tray, eliminating the need for double handling cables and reducing possibility of cable damage
- Sideways telescopic adjustment allows rollers to accommodate virtually all tray widths
- Nylon bearings require no lubrication
- Independent rollers limit cable abrasion

Straight Roller



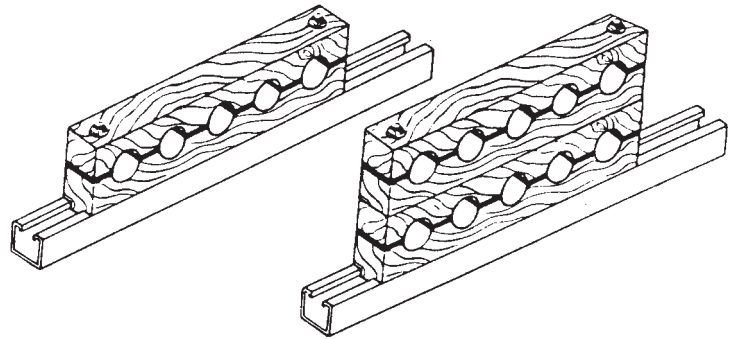
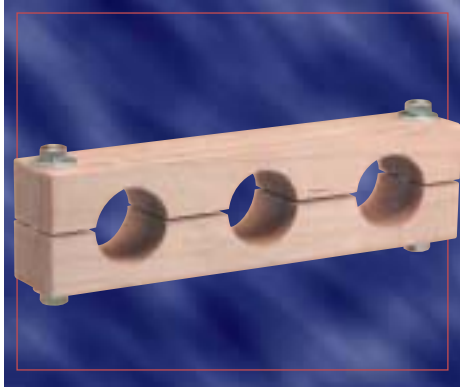
Catalogue Number	Description	Fits
HAR 1224	Straight	all profiles 12" to 24" (30 cm to 60 cm)
HAR 1836	Straight	all profiles 18" to 36" (45 cm to 90 cm)

Corner Roller



Catalogue Number	Description	Fits
VHR04	Corner	all profiles

Custom Maple Hardwood Block



Maple hardwood, paraffin wax impregnated, multiple cable blocks can be made to your specific requirements.

Cable blocks are to insure proper separation of single conductor cables, which prevents any interference due to magnetic fields. The maple hardwood blocks are paraffin wax impregnated to prevent moisture from penetrating and causing rotting and splitting.

Cable blocks are also available in nylon and high density polyethylene.

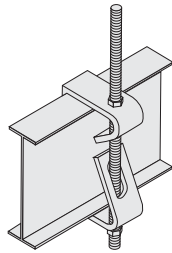
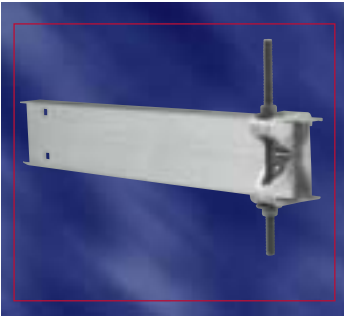
Price and delivery upon request.

Electrogalvanized hardware included, however stainless steel hardware is also available upon request.

Thomas & Betts Cable Tray

Cable Tray Support Systems

Hanger Rod Clamp



These clamps are designed for ladder and ventilated cable tray. They provide a fast and economical solution for a suspended cable tray installation. One kit is needed per each threaded rod location.

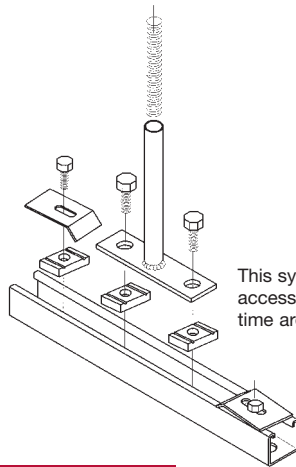
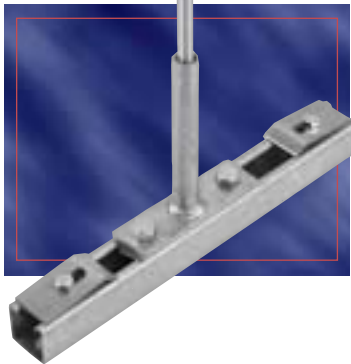
Kit consists of: - one bottom clamp
- one top clamp

Uses 1/2" threaded rod
(order separately) / 250 lb
capacity per kit.

Material Prefix	Height	Catalogue Number
PGW	3"	(Prefix)-3-HRC
HGW	4"	(Prefix)-4-HRC
SGW	5"	(Prefix)-5-HRC
	6"	(Prefix)-6-HRC
	7"	(Prefix)-7-HRC

Tray Series	Catalogue no.	Tray Series	Catalogue no.	Tray Series	Catalogue no.
AH04	ABW04HRC	AH25	ABW25HRC	AH46	ABW46HRC
AH14	ABW14HRC	AH35	ABW35HRC	AH56	ABW56HRC
AH24	ABW24HRC	AH45	ABW45HRC	AH66	ABW66HRC
AH34	ABW34HRC	AH16	ABW16HRC	AH27	ABW27HRC
AH44	ABW44HRC	AH26	ABW26HRC	AH37	ABW37HRC
AH54	ABW54HRC	AH36	ABW36HRC		

Center Support Bracket

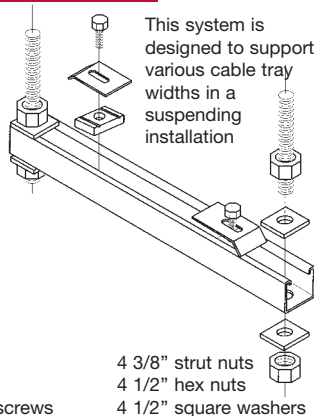
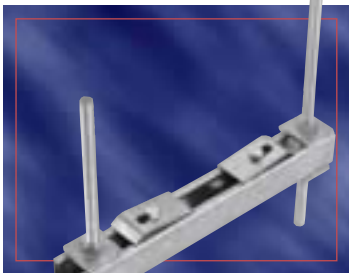


Material	Channel Width	Tray Width	Catalogue Number
SHW	18"	6"	SHW18CSB
Hot-Dip	30"	9"	SHW30CSB
Galvanized		12"	
		18"	
		24"	

This system is designed to reduce cable pulling by allowing access from both sides of cable tray. Installation cost and time are reduced significantly by single point suspension.

- Supplied as a complete kit.
- Uses 1/2" threaded rod (order separately)
- For use with up to 24" wide tray
- Load capacity : 700 lb per kit

Trapeze Kit



This system is designed to support various cable tray widths in a suspending installation

Tray Width	Channel Width	Catalogue Number
6"	16-7/8"	(*)-06-TPK
9"	18-3/4"	(*)-09-TPK
12"	22-1/2"	(*)-12-TPK
18"	28-1/8"	(*)-18-TPK
24"	35-5/8"	(*)-24-TPK
30"	41-1/4"	(*)-30-TPK
36"	46-7/8"	(*)-36-TPK
42"	52-1/2"	(*)-42-TPK

(*) Insert : **SHW** for hot dip galvanized
SSW for stainless steel 316
SPW for pre-galvanized

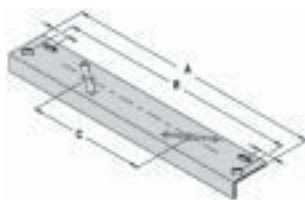
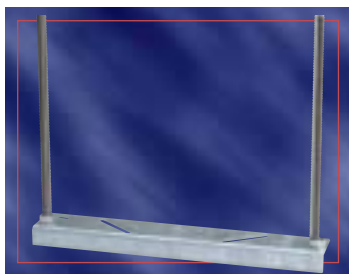
Kit consists of :
1 pc of strut cut to length
2 hold down clips
2 3/8" x 7/8" hex head cap screws
Uses 1/2" threaded rod (order separately)

4 3/8" strut nuts
4 1/2" hex nuts
4 1/2" square washers

Cable Tray Support Systems

Thomas & Betts Cable Tray

Cross Member



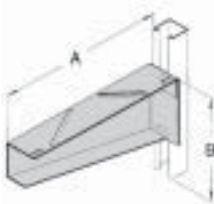
Hanging rods not included.

Standard finish:
hot dipped galvanized

Catalogue Number	A	B	C
S202-6HDG	6	5	-
S202-9HDG	9	8	2
S202-15HDG	5	14	8
S202-21HDG	21	20	14
S202-27HDG	27	26	20
S202-33HDG	33	32	26

* Order hold down clips separately. Cat # SSW-SHC

Cantilever Support



Standard finish:
hot dipped galvanized

Catalogue Number	A	B	Design Load/lbs
S203-8HDG	8-1/2	4-1/16	1200
S203-14HDG	14-1/2	5-3/8	1200
S203-20HDG	20-1/2	6-11/16	1200
S203-26HDG	26-1/2	8	1200
S203-32HDG	32-1/2	8	1200
S203-38HDG	38-1/2	8	1200

* Order hold down clips separately. Cat # SSW-SHC

Conduit to Cable Tray Clamp



Material:
steel

Standard finish:
electro-galvanized

Catalogue Number	Conduit Size (inches)
6210	1/2 — 3/4
6212	1 — 1-1/4



Common
Accessories

Conduit to Cable Tray - Swivel Clamp



Material:
malleable iron hub
and steel U-bolt

Standard finish:
zinc plated

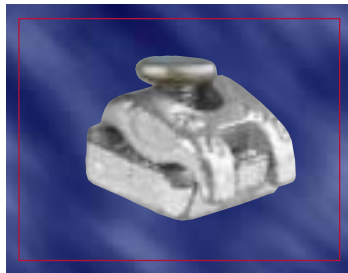
Catalogue Number	Conduit Size (inches)
6209	1/2 — 3/4
6211	1 — 1-1/4
6214	1-1/2 — 2
6216	2-1/2 — 3
6218	3-1/2 — 4

Swivel Tray Clamp for aluminum and steel trays with regular or reinforced flanges.



- Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp.
- 1/2 to 4 inch can be clamped to any position in a 90 degree arc.

Economical Cable Tray Ground Clamp



Material:
malleable iron

Standard finish:
zinc plated

Catalogue Number	Description
10103TB	For single conductor #4 solid to 4/0 str.
MA2GC	For single conductors #4 solid to 4/0 str. Includes Superstrut springless channel nut for easy installation in cable tray rungs.

Cable Tray Ground Clamp

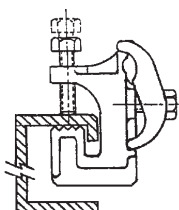


Material:
malleable iron

Standard finish:
zinc plated

Showing Cat. No. 10109

Catalogue Number	Description
10105	For single conductors #4 solid to 2/0 str.
10109	For single conductors 2/0 solid to 4/0 str.



Blackburn® Ground Clamp



Material:
copper alloy

Standard finish:
tin plated for
aluminum cable tray

Catalogue Number	Conductor Range		Figure
	Min.	Max.	
GTC13P	#4 sol.	2/0 str.	1
GTC14P	2/0 str.	250 Kcmil	1
GTC23P	#4 sol.	2/0 str.	2
GTC24P	2/0 str.	250 Kcmil	2

Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench.



Figure 1



Figure 2



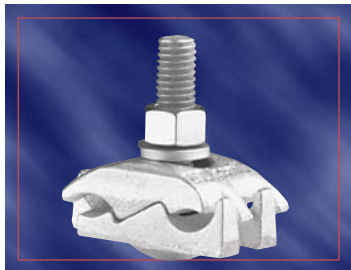
Castings are of high strength, corrosion-resistant copper alloy.

For our complete offering of Grounding & Bonding products, consult our Blackburn® and Color-Keyed® catalogues.

Grounding and Bonding Products

Grounding and Bonding Cable Tray

Blackburn® Cable Tray Ground Clamp



Material:
copper alloy

Standard finish:
zinc plated

Catalogue Number

Description

CTG250

For parallel or tapping applications
#2 solid to 250 Kcmil.



Blackburn® Lay-in Lug



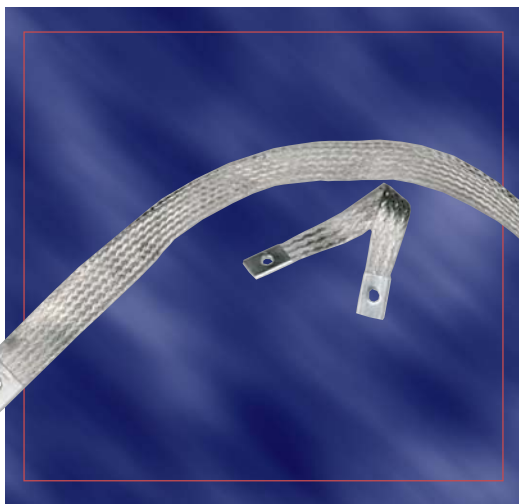
Material: Tin Plated
high strength 6061-T6
aluminum alloy

Catalogue Number	Conductor Range		Stud Size	
	Min.	Max.	(in.)	(mm²)
LL306	#6 solid	3/0 str.	.33	8.38
LL2506	#6 str.	250 Kcmil	.33	8.38

These grounding connectors are dual rated for aluminum and copper conductors. The opened face design allows the installer to quickly lay-in the grounding conductor as a jumper.



Bonding Jumpers



Material: copper
Standard finish: tin plated

Catalogue Number	Bonding Amp. Capacity	Single Bolt Hole	Description
FBD12-1 *	600 Amps.	7/16	12" flat flexible braid
FBD16-1 *	600 Amps.	7/16	16" flat flexible braid
FBE12-1 *	1200 Amps.	9/16	12" flat flexible braid
FBE16-1 *	1200 Amps.	9/16	16" flat flexible braid
FB3H12-1 *	2000 Amps.	9/16	12" flat flexible braid
FB3H16-1 *	2000 Amps.	9/16	16" flat flexible braid

*Listed UL 467 & 486A, certified CSA C22.2 No. 41 for grounding & bonding equipment. Standard lengths offered in 12, 18, 24, 30 and 36 inches end to end.

Example : FBD24-1 for a 24" long bonding jumpers
Custom braids are available

IMPORTANT: Bonding Jumpers are required for expansion joints as well as adjustable joints. Please note due to the overall length of the expansion plate a 12" long bonding jumper is no longer sufficient to span the joint properly.



Grounding and Bonding

Grounding & Bonding

Table 1
(NEC TABLE 392.7 (B))
Metal Area Requirements for Cable Trays
Used as Equipment Grounding Conductors

Maximum Fuse Ampere Rating, Circuit Breaker Ampere Trip Setting, or Circuit Breaker Protective Relay Ampere Trip Setting for Ground Fault Protection of any Cable Circuit in the Cable Tray System	Minimum Cross-Sectional Area of Metal* In Square Inches	
	Steel Cable Trays	Aluminum Cable Trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50 **	0.40
1000	-	0.60
1200	-	1.00
1600	-	1.50
2000	-	2.00 **

For SI units: one square inch = 645 square millimeters.

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.

** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.

For larger ampere ratings an additional grounding conductor must be used.

Table 2
Minimum Size Equipment Grounding
Conductors for Grounding &
Bonding Raceway and Equipment
(Based on NEC Table 250-95 and CEC Table 16)

Rating or Setting of Automatic Overcurrent Device in Circuit Ahead of Equipment, Conduit, etc. Not exceeding (Amperes)	Size	
	Copper Wire No.	Aluminum or Copper-Clad Aluminum Wire No.*
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250 kcmil
1600	4/0	350 kcmil
2000	250 kcmil	400 kcmil
2500	350 kcmil	600 kcmil
3000	400 kcmil	600 kcmil
4000	500 kcmil	800 kcmil
5000	700 kcmil	1200 kcmil
6000	800 kcmil	1200 kcmil

* See installation restrictions in NEC Section 250-92(a).

For more information on grounding and bonding cable tray, refer to Section 4.7 of the new NEMA VE 2-2006 Cable Tray Installation Guidelines.

For our complete offering of Grounding & Bonding products, consult our Blackburn® and Color-Keyed® catalogues.

Superstrut® Support Systems

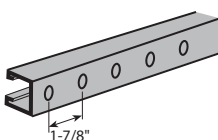
1-5/8" x 1-5/8" Channel

Superstrut® 1-5/8" x 1-5/8" - 12 Gauge Channel Type A

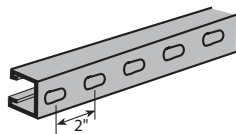
Solid Base



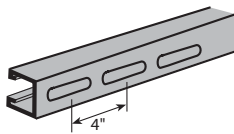
Punched



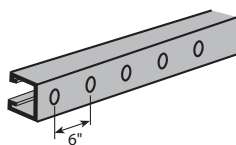
Half Slots



Long Slots



Knockouts



Back to Back



Catalogue Number Description

A1200	Solid base
A1200-P	Punched
A1200-HS	Half slots
A1200-S	Long slots
A1200-KO	Knockouts
A1202	Back to back

Example: A1200HS10ALC, A120020HDGC

Finishes & Materials

No Suffix	Gold galvanized dichromate finish
ALC	Aluminum
EG	Electrogalvanized
HDGC	Hot dipped galvanized
PGC	Pregalvanized
T316L	Stainless steel Type 316

- Offered in 10 or 20 ft lengths.
- Aluminum, hot dipped galvanized or stainless steel channels are recommended to support aluminum steel or stainless steel cable tray.

Channel Nuts

A100

Regular Spring Nut



**AC100
Springless Nut**



**UC100
Universal Nylon Cone Nut**



For all 1-5/8" and 1-1/2" channels
May be used with ALL Strut Depths.

Catalogue Number Size

A100-1/4EGC	1/4	Standard Finish:
A100-5/16EGC	5/16	
A100-3/8EGC	3/8	
A100-1/2EGC	1/2	Electrogalvanized
A100-5/8EGC	5/8	
A100-3/4	3/4	
A100-7/8EGC	7/8	Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs.
Nut is square over 1/2" size.		
Change suffix to SS6(C).		

AC100-1/4EGC	1/4	Standard Finish:
AC100-3/8EGC	3/8	
AC100-1/2EGC	1/2	
AC100-5/8	5/8	Electrogalvanized
AC100-3/4	3/4	
Stainless steel channel nuts are recommended for aluminum channel and cable tray rungs.		
Nut is square over 1/2" size.		Change suffix to SS6(C).

UC100-1/4	1/4	Not available in stainless steel.
UC100-3/8	3/8	
UC100-1/2	1/2	

Hex. Head Cap Screw



Catalogue Number Size

E142-1/4x100EG	1/4 x 1	Standard finish Electrogalvanized
E142-1/4x150EG	1/4 x 1-1/2	
E142-3/8x100EG	3/8 x 1	Available in stainless steel Change suffix to SS6(C)
E142-3/8x150EG	3/8 x 1-1/2	
E142-1/2x100EG	1/2 x 1	Change suffix to SS6(C)
E142-1/2x150EG	1/2 x 1-1/2	

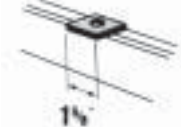
For our complete selection, consult our Superstrut® catalogue.

Superstrut® Support Systems

1-5/8" x 1-5/8" Channel

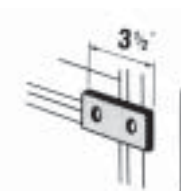
Superstrut® Fittings and Brackets

AB241HDGC

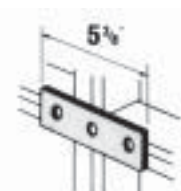


Cat. No.	Size
AB241-1/4HDGC	1/4
AB241-3/8HDGC	3/8
AB241-1/2HDGC	1/2
AB241-3/4HDGC	3/4

AB206HDGC



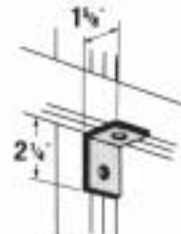
AB207HDGC



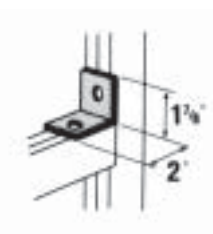
X207HDGC



AB201HDGC



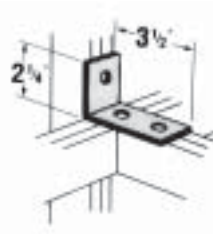
AB202HDGC



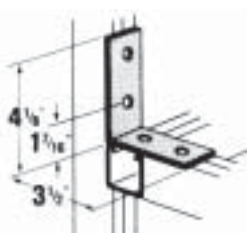
AB203HDGC



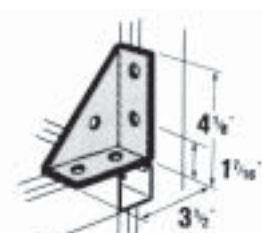
AB204HDGC



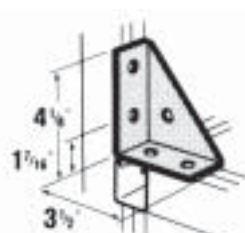
AB205HDGC



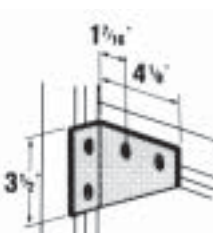
AB213HDGC



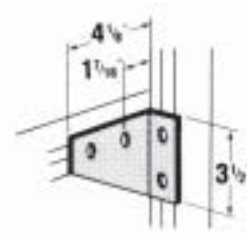
AB214HDGC



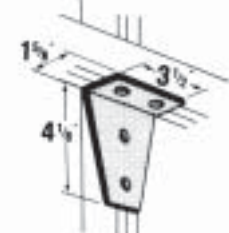
AB254-LHDGC



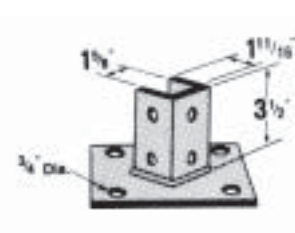
AB254-RHDGC



X289HDGC



AP232HDG



AP235HDGC

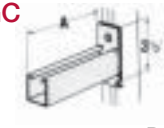


S249HDG



Cat. No.	A	B	Design Load/lb
S249-8HDG	8-1/2	8	1500
S249-14HDG	14-1/2	9	1500
S249-20HDG	20-1/2	9	1500
S249-26HDG	26-1/2	11-1/2	1500
S249-32HDG	32-1/2	11-1/2	1500
S249-38HDG	38-1/2	11-1/2	1500

S256HDGC



Cat. No.	A	Design Load/lb
S256-8HDGC	8-1/2	1000
S256-14HDGC	14-1/2	500
S256-20HDGC	20-1/2	300
S256-26HDGC	26-1/2	250

When installed in inverted position reduce load rating 40%. Strut section made from half slot channel.

S251HDGC



Cat. No.	A	Design Load/lb
S251-14HDGC	14-1/2	1650
S251-20HDGC	20-1/2	800
S251-26HDGC	26-1/2	650
S251-32HDGC	32-1/2	500
S251-38HDGC	38-1/2	500

Hot dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel.
Also available in Electrogalvanized (EG) and Gold galvanized dichromate (no suffix).

For our complete selection, consult our Superstrut® catalogue.

Superstrut® Support Systems

Quick-Clamp II (TBQC)

Quick-Clamp II



True one-piece construction — arrives ready to install

NO breaking apart — half the installation time of break apart clamps

Integral bolt and captive nut — no separate pieces to lose

One size fits EMT and rigid conduit — takes the guesswork out of clamp selection. Pipe size and catalogue number stamped right on clamp.

Attaches a complete range of EMT and rigid conduit (1/2 in. to 4 in.) to strut channels

Multi-driver combo bolt head — accepts a wrench, most screwdrivers or 1/2 in. nut driver

Field-adjustable angle ($\pm 4^\circ$) — easy installation even when strut is not square

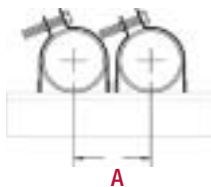
Embossed J-hooks increase loading capabilities

T&B flex window provides wrapping action around pipes

Easy reconfiguration without complete disassembly — easily accessible angled bolt allows for field adjustments and closer conduit spacing

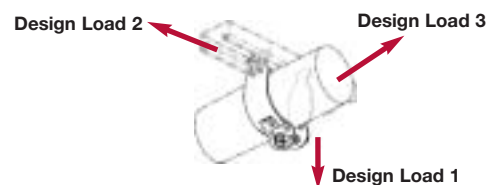
Electrogalvanized finish — additional corrosion resistance

Ordering information



Catalogue Number	Dimension A for EMT inches (mm)	Dimension A for Rigid Conduit inches (mm)	Quantity per Box
TBQC050	1-5/16 (33.5)	1-1/4 (31.5)	100
TBQC075	1-3/4 (44.5)	1-11/16 (43)	100
TBQC100	1-13/16 (46)	1-3/4 (44.5)	100
TBQC125	2-1/8 (54)	2 (51)	50
TBQC150	2-3/8 (60.5)	2-3/16 (55.5)	50
TBQC200	2-5/8 (66.5)	2-1/2 (63.5)	50
TBQC250	3-1/16 (78)	3-1/16 (78)	25
TBQC300	3-11/16 (93.5)	3-11/16 (93.5)	25
TBQC350	4-3/16 (106.5)	4-3/16 (106.5)	25
TBQC400	4-11/16 (119)	4-11/16 (119)	25

Loading Data



Catalogue Number	Design Load 1 Static Load Limit lb (kg)	Design Load 2 lb (kg)	Design Load 3 lb (kg)
TBQC050	200 (90)	50 (23)	50 (23)
TBQC075	200 (90)	50 (23)	50 (23)
TBQC100	200 (90)	50 (23)	50 (23)
TBQC125	200 (90)	50 (23)	50 (23)
TBQC150	200 (90)	50 (23)	50 (23)
TBQC200	200 (90)	50 (23)	50 (23)
TBQC250	350 (158)	50 (23)	50 (23)
TBQC300	350 (158)	50 (23)	50 (23)
TBQC350	350 (158)	50 (23)	50 (23)
TBQC400	350 (158)	50 (23)	50 (23)

Design Load 1 has a safety factor of 4. Design Loads 2 and 3 have a safety factor of 1.

For our complete selection, consult our Superstrut® catalogue.

Cobra Cable and Pipe Clamp (CPC)

Superstrut® Support Systems

Cobra



Clear markings on each clamp identify the catalogue number, min./max. outer cable diameters, EMT/Rigid trade sizes, CSA and UL stamps.

One size clamp works on **equal trade sizes for both EMT and rigid conduit**.

Works with **all depths of strut - 13/16" to 3-1/4"**.

Two hooks on the same side make the clamp easy to install and keep conduits and cable square with strut.

Rugged stirrup and wide saddle design holds securely with no damage to conduit or cable.

Suggested design load is 200 lb (1/2" to 2"); 350lb (2-1/2" to 4"). Safety factor 4:1 (safety factor = ratio of ultimate load to the design load).

Heavy-duty 5/16" hex bolt with multi-driver head (Robertson square, Phillips cross-recess and slot) provides full range of installation options. Virtually any tool will work!

Bright zinc finish - clamps are electrogalvanized after fabrication for additional durability.

Ordering information



Catalogue No	For EMT Trade Size	For Rigid Conduit Trade Size	Cable O.D. Range (in.)	Static Load Limit (lb) Safety Factor = 4	Quantity per Box
CPC050	1/2	1/2	0.650 - 0.890	200	100
CPC075	3/4	3/4	0.860 - 1.110	200	100
CPC100	1	1	1.100 - 1.400	200	100
CPC125	1 1/4	1 1/4	1.400 - 1.725	200	50
CPC150	1 1/2	1 1/2	1.690 - 1.980	200	50
CPC200	2	2	1.980 - 2.576	200	50
CPC250	2 1/2	2 1/2	2.576 - 3.060	350	25
CPC300	3	3	3.060 - 3.626	350	25
CPC350	3 1/2	3 1/2	3.626 - 4.126	350	25
CPC400	4	4	4.126 - 4.626	350	25

Standard material is commercial-grade, bright electrogalvanized steel. Stainless steel 316L is also available; add the suffix "SS6" to catalogue no. (i.e.: CPC050SS6). Stainless steel bolt head is hexagonal and slotted only. Not available in aluminum.



For our complete selection, consult our Superstrut® catalogue.

Superstrut® Support Systems

Cobra Cable and Pipe Clamp (KCPC)

King-Cobra



Superior design load capabilities for industrial applications: 350 lb for 1/2" to 2" trade sizes; 450 lb for 2-1/2" to 4" trade sizes.

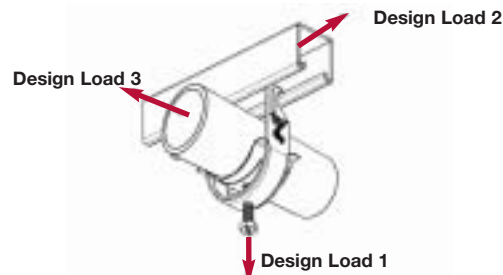
- Durable one-piece, heavy-duty steel construction – designed specifically for use in industrial applications.
- Embosses on shoulder and hooks increase loading capability and durability, preventing deformation of clamps.
- Rugged stirrup provides increased strength for heavier loads, minimizing deflection.
- Wider saddle design with anti-rotation tabs distributes load evenly over a larger surface area, preventing jacket damage.
- Increased corrosion protection - GoldGalv® (yellow zinc dichromate) finish stands up to harsh industrial applications.* Compared to conventional electrogalvanization.
- Parallel hook design keeps conduit and cable square with strut.
- Heavy-duty 5/16" hex bolt
- One size clamp works on equal trade sizes for both EMT and rigid conduit, simplifying clamp specification.

Ordering information

Catalogue Number	For EMT Trade Size inches (mm)	For Rigid Conduit Trade Size inches (mm)	Cable Range (in.)	Quantity per Box
KCPC050	1/2	1/2	0.650-0.890	100
KCPC075	3/4	3/4	0.860-1.110	100
KCPC100	1	1	1.100-1.400	50
KCPC125	1-1/4	1-1/4	1.400-1.725	50
KCPC150	1-1/2	1-1/2	1.690-1.980	50
KCPC200	2	2	1.980-2.576	50
KCPC250	2-1/2	2-1/2	2.576-3.060	25
KCPC300	3	3	3.060-3.626	25
KCPC350	3-1/2	3-1/2	3.626-4.126	25
KCPC400	4	4	4.126-4.626	25

Loading Data

Catalogue Number	Design Load 1 Static Load Limit lb (kg)	Design Load 2 lb (kg)	Design Load 3 lb (kg)
Safety Factor = 4			
KCPC050	350 (159)	50 (23)	50 (23)
KCPC075	350 (159)	50 (23)	50 (23)
KCPC100	350 (159)	50 (23)	50 (23)
KCPC125	350 (159)	50 (23)	50 (23)
KCPC150	350 (159)	50 (23)	50 (23)
KCPC200	350 (159)	50 (23)	50 (23)
KCPC250	350 (159)	50 (23)	50 (23)
KCPC300	450 (204)	50 (23)	50 (23)
KCPC350	450 (204)	50 (23)	50 (23)
KCPC400	450 (204)	50 (23)	50 (23)



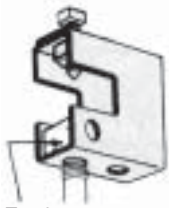
For our complete selection, consult our Superstrut® catalogue.

Beam Clamps and Hanger Rods

Superstrut® Support Systems

Superstrut® Beam Clamps and Hanger Rods

U562HDG



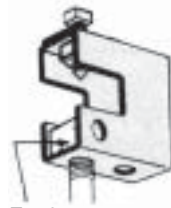
E146

Rod Size	Design Load Load/lb
1/2	800

E146 Square nut order separately.
1/2" set screw included.

For 20° swivel application use
ES145-1/2 nut.

UM562HDGC



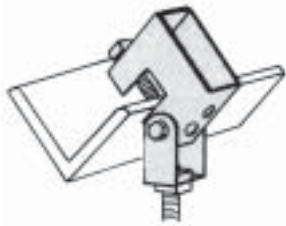
E146

Rod Size	Design Load Load/lb
1/2	1200

E146 Square nut order separately.
1/2" set screw included.

For 20° swivel application use
ES145-1/2 nut.

US562HDGC



Rod Size	Design Load Load/lb
1/2	800

1/2" set screw included.

U568



Cat. no.	Beam Flange Width	A
U568-3EG	6	9
U568-4EG	9	12
U568-5EG	12	15

16 ga. material

U514HDGC



3/8" x 1-1/2" set screw
included.

Design Load 750 lb/per pair

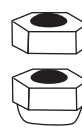
U515HDGC



For all "A" series channel.
1/2" x 1-1/2" set screw included.

Design Load 800 lb

ES145



Cat. No.	Size
ES145-3/8EG	3/8
ES145-1/2EG	1/2

E146



Cat. No.	Size
E146-1/4EG	1/4
E146-5/16EG	5/16
E146-3/8EG	3/8
E146-1/2EG	1/2
E146-5/8EG	5/8

H104



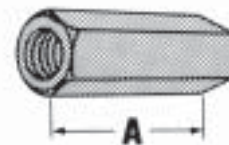
Standard length, 10 ft

Also available in stainless steel (304 and 316) in length of 6 ft

NATIONAL COARSE THREAD

Cat. No.	Size	Threads per inch	Design Load lb
H104-1/4x10EGC	1/4	20	150
H104-3/8x10EGC	3/8	16	610
H104-1/2x10EGC	1/2	13	1130
H104-5/8x10EGC	5/8	11	1810
H104-3/4x10EGC	3/4	10	2710
H104-7/8x10EGC	7/8	9	3770
H104-1x10EGC	1	8	4960

H119



Order by product number, rod size, and finish. **Example: H119-1/2EGC**

Rod Size	A
1/4	7/8
5/16	7/8
3/8	1-1/8
1/2	1-1/4
5/8	2-1/8
3/4	2-1/4
7/8	2-1/2
1	2-1/4

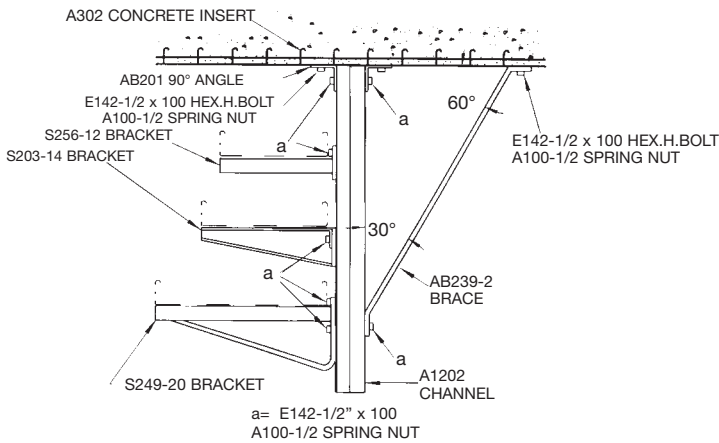
Finished & Materials: Gold Galv. dichromate (no suffix), Electrogalvanized (EG), Hot dipped Galvanized (HDGC), Stainless Steel Type 316 (SS6C)

For our complete selection, consult our Superstrut® catalogue.

Superstrut® Support Systems

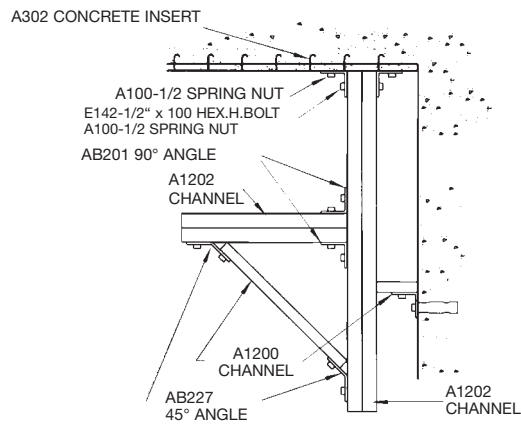
Design Applications Mechanical Support

Example: 1



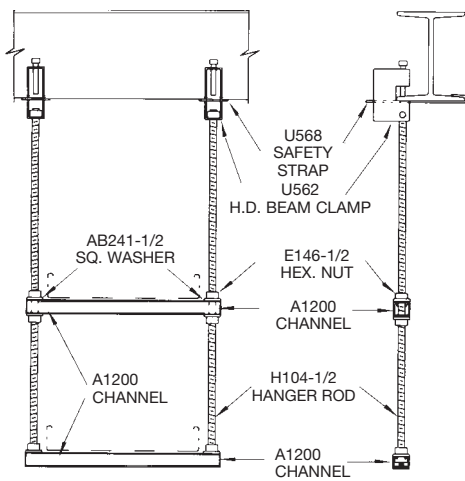
Suspended column, carrying brackets, braced to the ceiling.

Example: 2



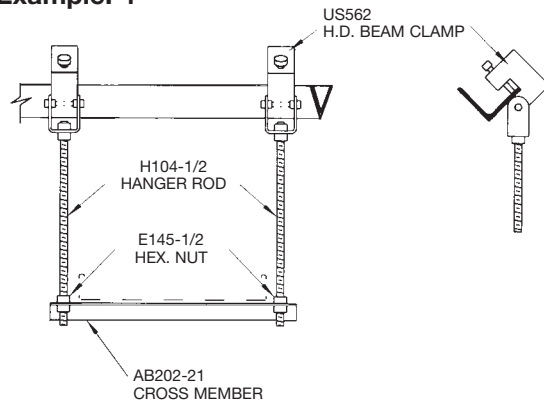
Suspended column, holding bracket and console braced to wall.

Example: 3



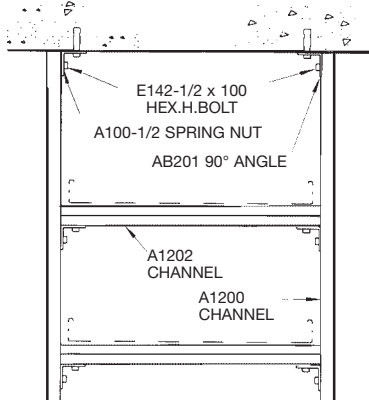
Trapeze, T&B channels are used as cross members.

Example: 4



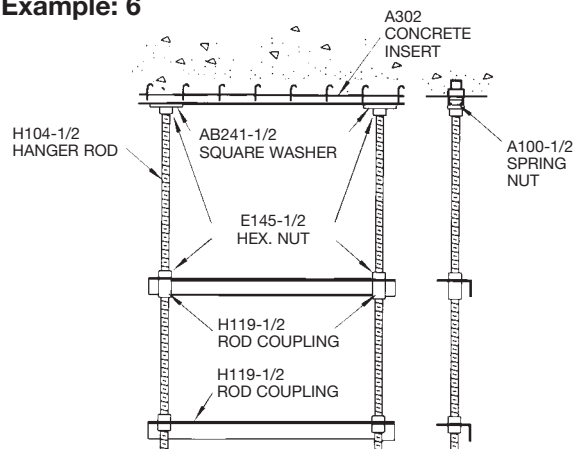
Sketch depicts the use of beam clamps on slanted beams.

Example: 5



Trapeze, constructed from T&B channels, fittings. The use of spot inserts is shown.

Example: 6



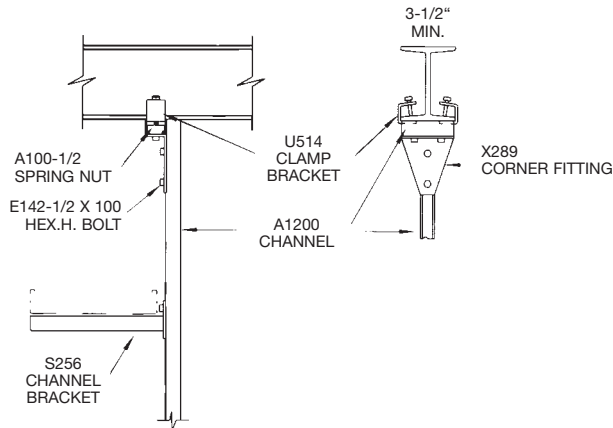
Trapeze, using T&B hanger rods, cross members.

For our complete selection, consult our Superstrut® catalogue.

Design Applications Mechanical Support

Superstrut® Support Systems

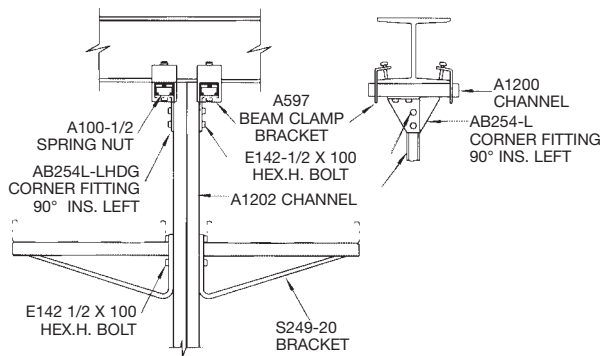
Example: 7



* NOTE: BRACE SHOULD BE USED FOR LENGTHS GREATER THEN 30"

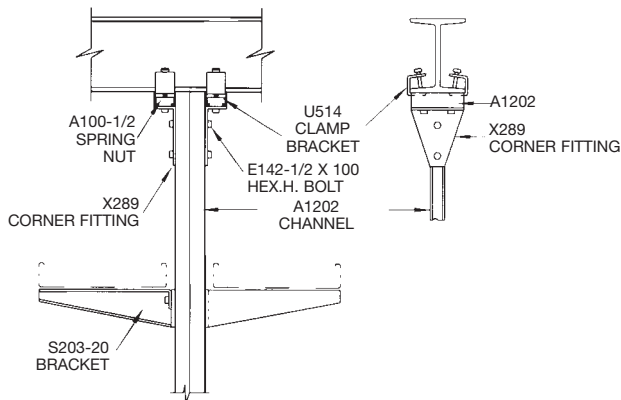
Single-sided bracket application

Example: 9



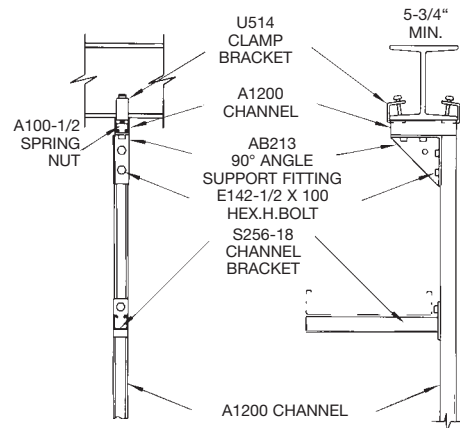
Two-sided heavy duty application

Example: 11



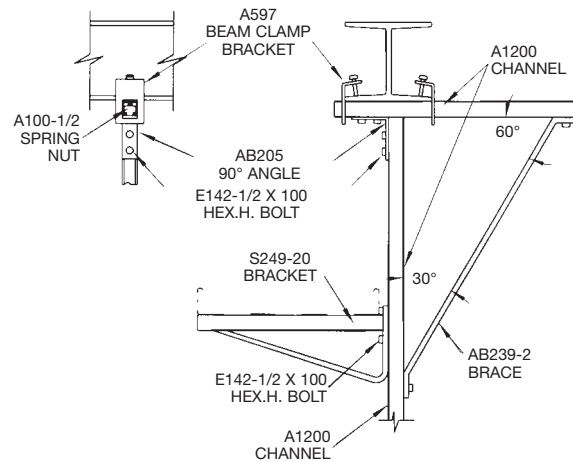
Brackets parallel to beam

Example: 8



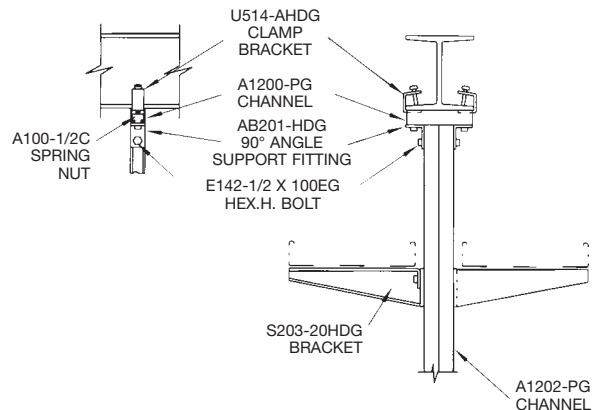
Single-sided bracket application

Example: 10



Heavy duty bracket application

Example: 12



Brackets perpendicular to beam

For our complete selection, consult our Superstrut® catalogue.

In order to ensure that your Channel Tray installation will meet your present and future needs, a sequence of decisions must be made. These decisions are relatively simple and can be condensed down to 4 steps.

1. Material Choice

- Aluminum
- Pre-Galvanized
- Hot Dipped
- Stainless Steel
- Coatings
- Other

2. Type of Tray Bottom

- Ventilated
- Solid

3. T&B Channel Tray Width

- 1.5"
- 3"
- 4"
- 6"

4. Fittings Selection

- Horizontal bends (90°, 60°, 45° and 30°)
- Horizontal Tees and Crosses
- Vertical bends (90°, 60°, 45° and 30°)

Each step is explained in detail on the following pages.

1. Material Choice

T&B Channel Tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost. Please refer to the technical section (pages 4 to 41) for further explanation.

2. Type of Channel Tray Bottom

Cable Channel

Thomas & Betts offers cable channel in solid or ventilated straight sections.

Ventilated channel has burr free oblong punched holes for easy access.

Ty-Rap® slots are provided between each opening for securing of cable.

Thomas & Betts channel tray meets NEMA VE-1 / CSA C22.22 N° 126.1-02



Ventilated Channel



Solid Channel



Note: Hole pattern shown is for widths larger than 1.5" wide.



3. Select Channel Tray Width

The width of a channel tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 1.5, 3, 4 and 6 inches.

When specifying width, cable ties or other spacing devices may be used to maintain the required air space between cables.

4. Select the Fittings

Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be zero (non-radius), 12", 24" or greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling, and cost. The typical radius is 24 inches.

Fittings are also available for 30°, 45°, 60° and 90° angles. When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points.

Refer to CSA/NEMA VE2 Installation Guidelines for suggested support locations.



Channel Tray

Straight Sections Part Number Selection Guide

How to create Straight Section part numbers

1. Select the material
2. Select nominal width of tray
3. Select the bottom type
4. The last number is the length of the channel tray

Example: ALTC04V-3

- Aluminum
- 4" wide
- Ventilated bottom
- 10 ft length



Straight Section Number Selection

(ALT) C 04 V-3

Material	Series	Type	Width	Bottom Style	Length
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized SS • 316 Stainless Steel	T • Cable Channel	C • Straight Section	*01 • (1.5") 03 • (3") 04 • (4") 06 • (6") *1.5" wide is not CSA	S • Solid Trough V • Ventilated Trough	3 • (10 ft) 144 • (12 ft) 288 • (24 ft)
Prefix					



Fittings Part Number Selection Guide

Channel Tray

How to create fitting part numbers

1. Select fitting material
2. Select nominal width of fitting
3. Select type of fitting
4. Select degree of angle if required
5. Select radius

Example: ALTF04SHB4512

- Aluminum
- 4" wide
- Horizontal bend
- 45° degree
- 12" radius



Fittings Number Selection							
(ALT) F 04 S HB 45 12							
Fitting Material	Series	Type	Width	Bottom Style	Fitting Type	Degree*	Radius
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized SS • 316 Stainless Steel	T • Cable Channel	F • Fitting	*01 • (1.5") 03 • (3") 04 • (4") 06 • (6") *1.5" wide is not CSA	S • Solid Trough	HB • Horizontal Bend HT • Horizontal Tee HX • Horizontal Cross VO • Vertical Outside Bend VI • Vertical Inside Bend	30 • 30° 45 • 45° 60 • 60° 90 • 90°	12 • 12" 24 • 24" 0 • Zero [†] radius [†] Contact your local sales office for availability
Prefix							

*Required for HB, VI & VO only



Channel Tray

Straight Sections Solid and Ventilated bottom

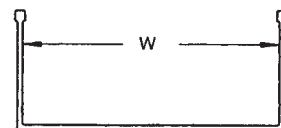
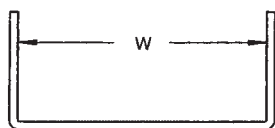
Solid: Steel - Roll Formed Steel. Aluminum - Extruded material.

*1.5" wide is not CSA 

Ventilated: Pre-punched burr free oblong holes with Ty-Rap® slots between each opening.

Accessories: One connector complete with hardware supplied with each length.

Material: Aluminum-6063-T6
Pre-galvanized
Hot Dip Galvanized
316 Stainless Steel



STEEL

ALUMINUM

ALUMINUM SOLID	CHANNEL WIDTH (W)	DEPTH (D)		SUPPORT SPAN (FEET)				
				2	4	6	8	10
ALTC	1.5"	3/4"	Load (lb/ft) Deflection (in.)	162.5 0.292	40.6 0.584	18 0.875	10.1 1.163	6.5 1.338
	3"	1-3/8"	Load (lb/ft) Deflection (in.)	362.5 0.083	90.6 0.330	40.3 0.743	22.7 1.322	17.0 2.065
	4"	1-5/8"	Load (lb/ft) Deflection (in.)	580.0 0.065	145.0 0.260	64.4 0.585	36.3 1.041	24.0 1.626
	6"	1-3/4"	Load (lb/ft) Deflection (in.)	607.5 0.061	151.9 0.244	67.5 0.550	38.0 0.977	25.0 1.527

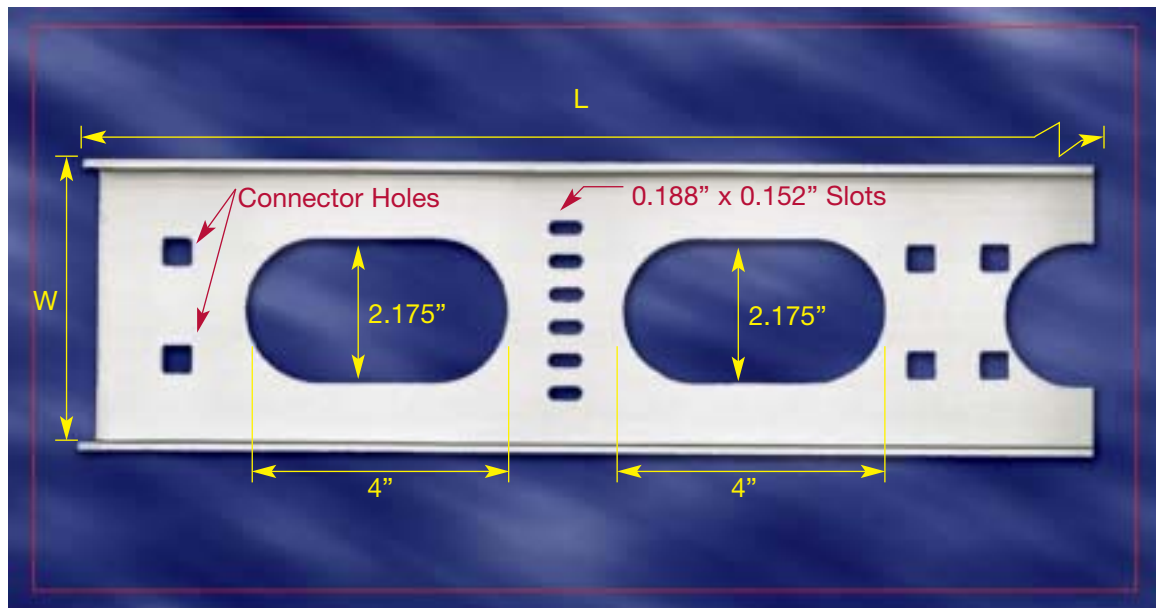
ALUMINUM VENTILATED	CHANNEL WIDTH (W)	DEPTH (D)		SUPPORT SPAN (FEET)				
				2	4	6	8	10
ALTC	1.5"	3/4"	Load (lb/ft) Deflection (in.)	162.5 0.292	40.6 0.584	18 0.875	10.1 1.163	6.5 1.338
	3"	1-3/8"	Load (lb/ft) Deflection (in.)	300.0 0.100	75.0 0.400	33.3 0.900	18.8 1.600	14.0 2.500
	4"	1-5/8"	Load (lb/ft) Deflection (in.)	525.0 0.074	131.3 0.295	58.3 0.664	32.8 1.181	19.0 1.846
	6"	1-3/4"	Load (lb/ft) Deflection (in.)	580.0 0.065	145.0 0.261	64.4 0.587	36.3 1.044	21.0 1.631

STEEL SOLID	CHANNEL WIDTH (W)	DEPTH (D)		SUPPORT SPAN (FEET)				
				2	4	6	8	10
SPTC SHTC SSTC	1.5"	3/4"	Load (lb/ft) Deflection (in.)	162.5 0.234	40.6 0.468	18 0.7	10.1 1.658	6.5 1.17
	3"	1-3/8"	Load (lb/ft) Deflection (in.)	252.0 0.034	63.0 0.134	28.0 0.302	15.8 0.538	17.0 0.840
	4"	1-5/8"	Load (lb/ft) Deflection (in.)	408.0 0.026	102.0 0.105	45.3 0.237	25.5 0.421	24.0 0.658
	6"	1-3/4"	Load (lb/ft) Deflection (in.)	432.0 0.024	108.0 0.096	48.0 0.217	27.0 0.386	25.0 0.603

STEEL VENTILATED	CHANNEL WIDTH (W)	DEPTH (D)		SUPPORT SPAN (FEET)				
				2	4	6	8	10
SPTC SHTC SSTC	1.5"	3/4"	Load (lb/ft) Deflection (in.)	162.5 0.234	40.6 0.468	18 0.7	10.1 1.658	6.5 1.17
	3"	1-3/8"	Load (lb/ft) Deflection (in.)	207.0 0.041	51.8 0.163	23.0 0.366	12.9 0.652	14.0 1.018
	4"	1-5/8"	Load (lb/ft) Deflection (in.)	363.0 0.030	90.8 0.119	40.3 0.269	22.7 0.477	19.0 0.746
	6"	1-3/4"	Load (lb/ft) Deflection (in.)	405.0 0.027	101.3 0.106	45.0 0.239	25.3 0.425	21.0 0.664

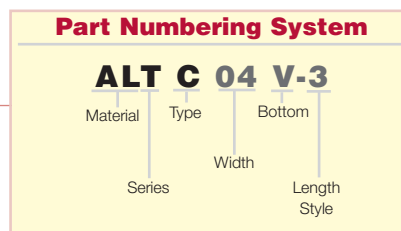
Straight Sections Solid and Ventilated

Channel Tray



Bottom view of ventilated Channel Tray larger than 1.5" wide

Dimension / Information



Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.)
SST(Stainless Steel)
Inside Channel Widths: *01=1.5", 03=3", 04=4", 06=6"
Bottom Styles: V- Ventilated, S- Solid

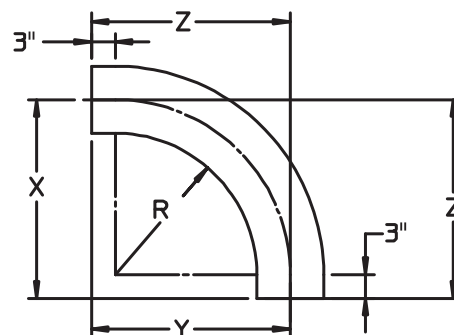
*1.5" wide is not CSA



Channel Tray

Channel Tray

Horizontal Bends - 90°



Part Numbering System

ALT F 06 S HB 90 24

Material Width Fitting Type Angle Radius
Fitting Bottom Style

Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.),
SST(Stainless Steel)
Inside Channel Widths: **01=1.5"**, **03=3"**, **04=4"**, **06=6"**
Bottom Styles: **S**— Solid

Dimension / Information

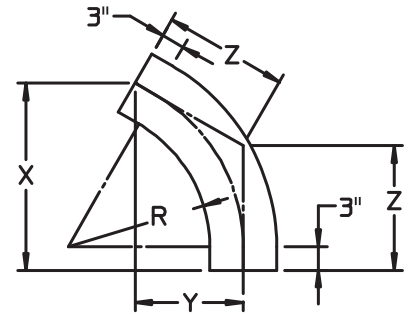
90° Horizontal BEND

Radius (in.)	Width (in.)	Catalogue Number	Dimensions (in.)		
R	W		X	Y	Z
12	*1.5	(Prefix)-F 01-S-HB90-12	15-3/4	15-3/4	15-3/4
	3	(Prefix)-F 03-S-HB90-12	16-1/2	16-1/2	16-1/2
	4	(Prefix)-F 04-S-HB90-12	17	17	17
	6	(Prefix)-F 06-S-HB90-12	18	18	18
24	*1.5	(Prefix)-F 01-S-HB90-24	27-3/4	27-3/4	27-3/4
	3	(Prefix)-F 03-S-HB90-24	28-1/2	28-1/2	28-1/2
	4	(Prefix)-F 04-S-HB90-24	29	29	29
	6	(Prefix)-F 06-S-HB90-24	30	30	30



*1.5" wide is not CSA

Horizontal Bends - 60°



Part Numbering System

SPT F 03 S HB 60 24

Material Width Fitting Type Radius
Fitting Bottom Style Angle

Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.), SST(Stainless Steel)

Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"

Bottom Styles: S- Solid

Dimension / Information

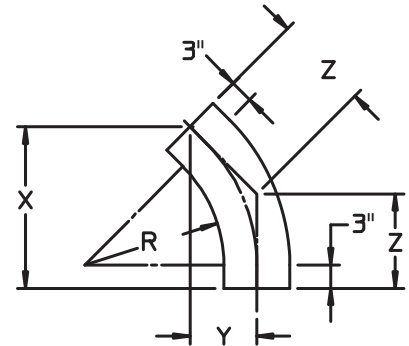
60° Horizontal BEND					
Radius (in.)	Width (in.)	Catalogue Number	Dimensions (in.)		
R	W		X	Y	Z
12	*1.5	(Prefix)-F 01-S-HB60-12	15-1/2	9	10-1/4
	3	(Prefix)-F 03-S-HB60-12	16-3/16	9-3/8	10-13/16
	4	(Prefix)-F 04-S-HB60-12	16-5/8	9-5/8	11-1/16
	6	(Prefix)-F 06-S-HB60-12	17-1/2	10-1/8	11-11/16
24	*1.5	(Prefix)-F 01-S-HB60-24	26	15	17-1/4
	3	(Prefix)-F 03-S-HB60-24	26-9/16	15-3/8	17-3/4
	4	(Prefix)-F 04-S-HB60-24	27	15-5/8	18
	6	(Prefix)-F 06-S-HB60-24	27-7/8	16-1/8	18-9/16



*1.5" wide is not CSA

Channel Tray

Horizontal Bends - 45°



Part Numbering System

SPT F 03 S HB 45 24

Material Width Fitting Bottom Style Angle Radius

Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.), **SST**(Stainless Steel)

Inside Channel Widths: **01=1.5"**, **03=3"**, **04=4"**, **06=6"**

Bottom Styles: **S**— Solid

Dimension / Information

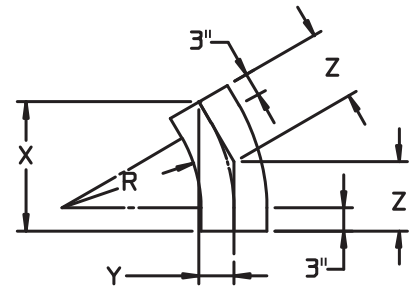
45° Horizontal BEND

Radius (in.)	Width (in.)	Catalogue Number	Dimensions (in.)		
R	W		X	Y	Z
12	*1.5	(Prefix)-F 01-S-HB45-12	14-1/8	5-7/8	8-1/4
	3	(Prefix)-F 03-S-HB45-12	14-11/16	6-1/16	8-9/16
	4	(Prefix)-F 04-S-HB45-12	15	6-1/4	8-13/16
	6	(Prefix)-F 06-S-HB45-12	15-3/4	6-1/2	9-3/16
24	*1.5	(Prefix)-F 01-S-HB45-24	22-5/8	9-3/8	13-1/4
	3	(Prefix)-F 03-S-HB45-24	23-1/8	9-9/16	13-9/16
	4	(Prefix)-F 04-S-HB45-24	23-1/2	9-3/4	13-3/4
	6	(Prefix)-F 06-S-HB45-24	24-3/16	10	14-3/16



*1.5" wide is not CSA

Horizontal Bends - 30°



Part Numbering System

ALT F 06 S HB 30 24

Material Width Fitting Type Radius
Fitting Bottom Style Angle

Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.), **SST**(Stainless Steel)

Inside Channel Widths: **01=1.5"**, **03=3"**, **04=4"**, **06=6"**

Bottom Styles: **S**— Solid

Dimension / Information

30° Horizontal BEND

Radius (in.)	Width (in.)	Catalogue Number	Dimensions (in.)		
R	W		X	Y	Z
12	*1.5	(Prefix)-F 01-S-HB30-12	12	3-1/4	6-1/2
	3	(Prefix)-F 03-S-HB30-12	12-3/8	3-5/16	6-5/8
	4	(Prefix)-F 04-S-HB30-12	12-5/8	3-3/8	6-3/4
	6	(Prefix)-F 06-S-HB30-12	13-1/8	3-1/2	7
24	*1.5	(Prefix)-F 01-S-HB30-24	18	4-3/4	9-5/8
	3	(Prefix)-F 03-S-HB30-24	18-3/8	4-15/16	9-13/16
	4	(Prefix)-F 04-S-HB30-24	18-5/8	5	9-15/16
	6	(Prefix)-F 06-S-HB30-24	19-1/8	5-1/8	10-1/4



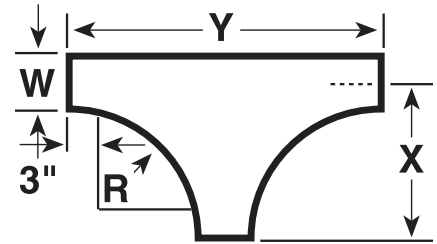
*1.5" wide is not CSA

Channel Tray

Horizontal Tee



Horizontal Tee



Dimension / Information

Part Numbering System

SST F 04 S HT 24

Material Width Fitting Radius
Fitting Bottom Style

Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.), SST(Stainless Steel)

Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"

Bottom Styles: S- Solid

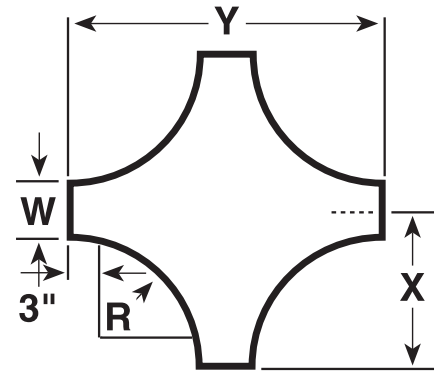
Horizontal Tee

Radius (in.)	Width (in.)	Catalogue Number	Dimensions (in.)		
R	W		X	Y	Z
12	*1.5	(Prefix)-F 01-S-HT-12	15-3/4	31-1/2	-
	3	(Prefix)-F 03-S-HT-12	16-1/2	33	-
	4	(Prefix)-F 04-S-HT-12	17	34	-
	6	(Prefix)-F 06-S-HT-12	18	36	-
24	*1.5	(Prefix)-F 01-S-HT-24	27-3/4	55-1/2	-
	3	(Prefix)-F 03-S-HT-24	28-1/2	57	-
	4	(Prefix)-F 04-S-HT-24	29	58	-
	6	(Prefix)-F 06-S-HT-24	30	60	-



*1.5" wide is not CSA

Horizontal Cross



Dimension / Information

Part Numbering System

ALT F 04 S HX 24

Material Width Fitting Type Radius
Fitting Bottom Style

Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.), **SST**(Stainless Steel)

Inside Channel Widths: **01=1.5"**, **03=3"**, **04=4"**, **06=6"**

Bottom Styles: **S**– Solid

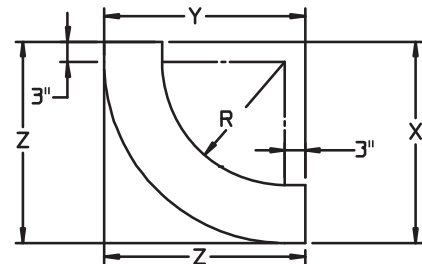
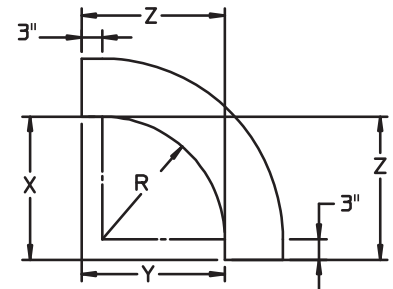
Horizontal Cross					
Radius (in.)	Width (in.)	Catalogue Number	Dimensions (in.)		
R	W		X	Y	Z
12	*1.5	(Prefix)-F 01-S-HX-12	15-3/4	31-1/2	-
	3	(Prefix)-F 03-S-HX-12	16-1/2	33	-
	4	(Prefix)-F 04-S-HX-12	17	34	-
	6	(Prefix)-F 06-S-HX-12	18	36	-
24	*1.5	(Prefix)-F 01-S-HX-24	27-3/4	55-1/2	-
	3	(Prefix)-F 03-S-HX-24	28-1/2	57	-
	4	(Prefix)-F 04-S-HX-24	29	58	-
	6	(Prefix)-F 06-S-HX-24	30	60	-



*1.5" wide is not CSA

Channel Tray

Vertical Bends 90° Outside and Inside



Dimension / Information

Part Numbering System

SPT F 06 S VO 90 24

Material Width Fitting Bottom Style Fitting Type Angle Radius

Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.), SST(Stainless Steel)

Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"

Bottom Styles: S—Solid

90° Vertical Outside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-V090-12	15	15	15
	3	(Prefix)-F 03-S-V090-12	15	15	15
	4	(Prefix)-F 04-S-V090-12	15	15	15
	6	(Prefix)-F 06-S-V090-12	15	15	15
24	*1.5	(Prefix)-F 01-S-V090-12	15	15	15
	3	(Prefix)-F 03-S-V090-12	27	27	27
	4	(Prefix)-F 04-S-V090-12	27	27	27
	6	(Prefix)-F 06-S-V090-12	27	27	27

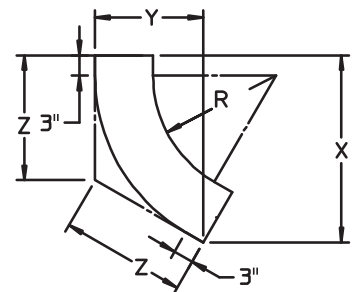
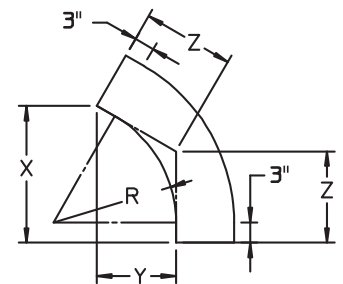
90° Vertical Inside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-VI90-12	15-3/4	15-3/4	15-3/4
	3	(Prefix)-F 03-S-VI90-12	16-1/2	16-1/2	16-1/2
	4	(Prefix)-F 04-S-VI90-12	16-7/8	16-7/8	16-7/8
	6	(Prefix)-F 06-S-VI90-12	16-7/8	16-7/8	16-7/8
24	*1.5	(Prefix)-F 01-S-VI90-24	27-3/4	27-3/4	27-3/4
	3	(Prefix)-F 03-S-VI90-24	28-1/2	28-1/2	28-1/2
	4	(Prefix)-F 04-S-VI90-24	28-7/8	28-7/8	28-7/8
	6	(Prefix)-F 06-S-VI90-24	28-7/8	28-7/8	28-7/8

SP® *1.5" wide is not CSA

Vertical Bends 60° Outside and Inside

Channel Tray



Dimension / Information

Part Numbering System

SST F 04 S VI 60 24

Material Width Fitting Bottom Radius
Type Style Angle

Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.),
SST(Stainless Steel)
Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"
Bottom Styles: S- Solid

60° Vertical Outside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-V060-12	14-7/8	8-5/8	9-7/8
	3	(Prefix)-F 03-S-V060-12	14-7/8	8-5/8	9-7/8
	4	(Prefix)-F 04-S-V060-12	14-7/8	8-5/8	9-7/8
	6	(Prefix)-F 06-S-V060-12	14-7/8	8-5/8	9-7/8
24	*1.5	(Prefix)-F 01-S-V060-12	25-1/4	14-5/8	16-7/8
	3	(Prefix)-F 03-S-V060-12	25-1/4	14-5/8	16-7/8
	4	(Prefix)-F 04-S-V060-12	25-1/4	14-5/8	16-7/8
	6	(Prefix)-F 06-S-V060-12	25-1/4	14-5/8	16-7/8

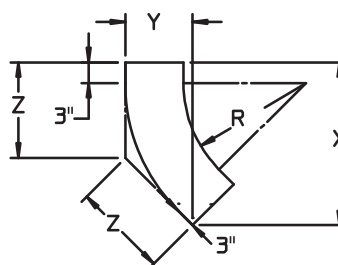
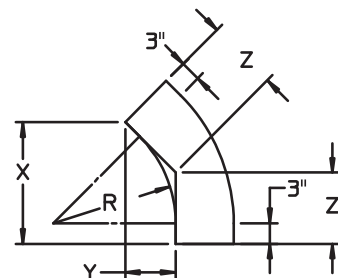
60° Vertical Inside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-VI60-12	15-1/2	9	10-1/4
	3	(Prefix)-F 03-S-VI60-12	16-1/8	9-1/4	10-3/4
	4	(Prefix)-F 04-S-VI60-12	16-1/4	9-3/8	10-7/8
	6	(Prefix)-F 06-S-VI60-12	16-3/8	9-1/2	11
24	*1.5	(Prefix)-F 01-S-VI60-24	26	15	17-1/4
	3	(Prefix)-F 03-S-VI60-24	26-1/2	15-1/4	17-5/8
	4	(Prefix)-F 04-S-VI60-24	26-3/4	15-3/8	17-3/4
	6	(Prefix)-F 06-S-VI60-24	26-3/4	15-1/2	17-7/8

SP® *1.5" wide is not CSA

Channel Tray

Vertical Bends 45° Outside and Inside



Dimension / Information

Part Numbering System

SST F 04 S VI 45 24

Material: SST
Width: F 04
Fitting: S
Bottom Style: VI
Type: 45
Angle: 24
Radius

Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.), SST(Stainless Steel)
Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"
Bottom Styles: S- Solid

45° Vertical Outside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-V045-12	13-5/8	5-5/8	8
	3	(Prefix)-F 03-S-V045-12	13-5/8	5-5/8	8
	4	(Prefix)-F 04-S-V045-12	13-5/8	5-5/8	8
	6	(Prefix)-F 06-S-V045-12	13-5/8	5-5/8	8
24	*1.5	(Prefix)-F 01-S-V045-12	22-1/8	9-1/8	12-7/8
	3	(Prefix)-F 03-S-V045-12	22-1/8	9-1/8	13
	4	(Prefix)-F 04-S-V045-12	11	11	13
	6	(Prefix)-F 06-S-V045-12	11	11	13

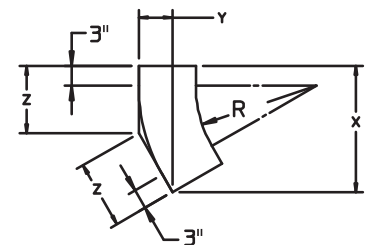
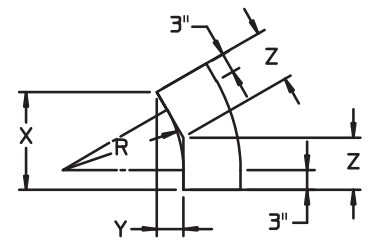
45° Vertical Inside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-VI45-12	14-1/8	5-1/8	9
	3	(Prefix)-F 03-S-VI45-12	14-5/8	6	8-1/2
	4	(Prefix)-F 04-S-VI45-12	14-3/4	7-1/8	8-5/8
	6	(Prefix)-F 06-S-VI45-12	14-7/8	11	8-3/4
24	*1.5	(Prefix)-F 01-S-VI45-24	22-5/8	8-5/8	13-1/2
	3	(Prefix)-F 03-S-VI45-24	23	9-1/2	13-1/2
	4	(Prefix)-F 04-S-VI45-24	23-1/4	9-5/8	13-5/8
	6	(Prefix)-F 06-S-VI45-24	23-3/8	9-5/8	13-5/8

SP® *1.5" wide is not CSA

Vertical Bends 30° Outside and Inside

Channel Tray



Part Numbering System

SPT F 06 S VO 30 24

Material Width Fitting Type Radius
Fitting Bottom Style Angle

Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.), SST(Stainless Steel)
Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"
Bottom Styles: S- Solid

Dimension / Information

30° Vertical Outside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-V030-12	10-1/8	1-7/8	5-1/4
	3	(Prefix)-F 03-S-V030-12	11-5/8	3-1/8	6-1/8
	4	(Prefix)-F 04-S-V030-12	11-5/8	3-1/8	6-1/8
	6	(Prefix)-F 06-S-V030-12	11-5/8	3-1/8	6-1/8
24	*1.5	(Prefix)-F 01-S-V030-12	17-5/8	4-3/4	9-1/2
	3	(Prefix)-F 03-S-V030-12	17-5/8	4-3/4	9-1/4
	4	(Prefix)-F 04-S-V030-12	17-5/8	4-3/4	9-1/4
	6	(Prefix)-F 06-S-V030-12	17-5/8	4-3/4	9-1/4

30° Vertical Inside Bend

Radius R (in.)	Width W (in.)	Catalogue Number	Dimensions (in.)		
			X	Y	Z
12	*1.5	(Prefix)-F 01-S-VI30-12	10-3/8	1-7/8	5-3/8
	3	(Prefix)-F 03-S-VI30-12	12-1/4	3-1/2	6-3/8
	4	(Prefix)-F 04-S-VI30-12	12-3/8	3-3/8	5-5/8
	6	(Prefix)-F 06-S-VI30-12	12-1/2	3-3/8	5-5/8
24	*1.5	(Prefix)-F 01-S-VI30-24	18	4-3/4	9-5/8
	3	(Prefix)-F 03-S-VI30-24	18-1/4	4-7/8	9-3/4
	4	(Prefix)-F 04-S-VI30-24	18-3/8	4-7/8	9-7/8
	6	(Prefix)-F 06-S-VI30-24	18-1/2	5	9-7/8

SP® *1.5" wide is not CSA

Channel Tray

Straight Sections Covers Part Number Selection Guide

Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Straight Covers

These covers provide maximum mechanical protection for cables with limited heat build up. Flanged covers have 1/2" flange.



Note: Cover mounting hardware must be ordered separately.

Straight Section Number Selection

(ALT) F 03 SFC 3

Material	Series	Type	Width	Bottom Style	Length
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized* SS • 316 Stainless Steel	T • Cable Channel	F • Fitting	01 • (1.5") 03 • (3") 04 • (4") 06 • (6")	SFC • Solid Flanged Covers	3 • (10 ft) 72 • (6 ft) 144 • (12 ft)
Prefix					

*Hot Dip Galvanized Covers only available in 1500 mm lengths.

Quantity of Standard Cover Clamps Required

Straight section (10 or 12 ft)

6 pcs.

Note: When using the Heavy Duty Cover Clamps, only half the quantity of pieces are required.

Fitting Covers Part Number Selection Guide

Channel Tray

Tray Covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Fitting Covers

Fitting covers are available to complete your cable channel layout. All fitting covers are flanged (1/2" flange).



Note: Cover mounting hardware must be ordered separately.

Fittings Number Selection						
(ALT) F 06 HBC 45 12						
Material	Series	Type	Width	Fitting Type Cover	Degree*	Radius
AL • Aluminum SP • Pre-galvanized SH • Hot Dip Galvanized SS • 316 Stainless Steel	T • Cable Channel	F • Fitting	01 • (1.5") 03 • (3") 04 • (4") 06 • (6")	HBC • Horizontal Bend HTC • Horizontal Tee HXC • Horizontal Cross VOC • Vertical Outside Bend VIC • Vertical Inside Bend	30 • 30° 45 • 45° 60 • 60° 90 • 90°	12 • 12" 24 • 24" 0 • Zero [†] radius [†]Contact your local sales office for availability
Prefix						

*Required for HB, VI & VO only

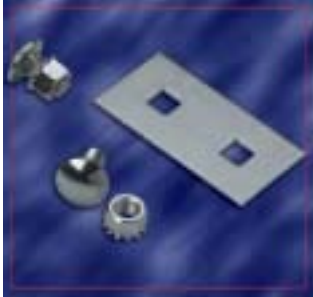
Quantity of Standard Cover Clamps Required	
Horizontal and Vertical Bends	4 pcs.
Tees	6 pcs.
Crosses	8 pcs.
Note: When using the Heavy Duty Cover Clamps, only half the quantity of pieces are required.	

Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.),
SST(Stainless Steel)

Inside Channel Widths: **01=1.5"**, **03=3"**, **04=4"**, **06=6"**

Standard 1.5" Splice Plate



Width	Catalogue Number
1.5"	(Prefix)-W-01-CCS

Supplied standard with each length.

Standard Splice Plate



Width	Catalogue Number
3"	(Prefix)-W-03-CCS
4"	(Prefix)-W-04-CCS
6"	(Prefix)-W-06-CCS

Supplied standard with each length.

Expansion Splice Plate



Width	Catalogue Number
3"	(Prefix)-W-03-ESP
4"	(Prefix)-W-04-ESP
6"	(Prefix)-W-06-ESP

Wrap Around Splice Plate



Width	Catalogue Number
1.5"	(Prefix)-W-01-ACS
3"	(Prefix)-W-03-ACS
4"	(Prefix)-W-04-ACS
6"	(Prefix)-W-06-ACS

Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.),
SST(Stainless Steel)

Inside Channel Widths: **01=1.5"**, **03=3"**, **04=4"**, **06=6"**

Adjustable Horizontal Splice Plate



Width	Catalogue Number
1.5"	(Prefix)-W-01-CHA
3"	(Prefix)-W-03-CHA
4"	(Prefix)-W-04-CHA
6"	(Prefix)-W-06-CHA

Standard Vertical Adjustable Splice Plate



Width	Catalogue Number
1.5"	(Prefix)-W-01-CCV
3"	(Prefix)-W-03-CCV
4"	(Prefix)-W-04-CCV
6"	(Prefix)-W-06-CCV

Wrap Around Vertical Adjustable Splice Plate



Width	Catalogue Number
1.5"	(Prefix)-W-01-WAV
3"	(Prefix)-W-03-WAV
4"	(Prefix)-W-04-WAV
6"	(Prefix)-W-06-WAV

Standard Hold Down Clamp



Width	Catalogue Number
1.5"	(Prefix)-W-01-SHC
3"	(Prefix)-W-03-SHC
4"	(Prefix)-W-04-SHC
6"	(Prefix)-W-06-SHC

Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.),
SST(Stainless Steel)

Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"

Channel Expansion Guide Clamp



Width	Catalogue Number
1.5"	(Prefix)-W-01-CEG
3"	(Prefix)-W-03-CEG
4"	(Prefix)-W-04-CEG
6"	(Prefix)-W-06-CEG

Combination Hold Down / Cover Clamp



Width	Catalogue Number
1.5"	(Prefix)-W-01-CCC
3"	(Prefix)-W-03-CCC
4"	(Prefix)-W-04-CCC
6"	(Prefix)-W-06-CCC

Heavy Duty Cover Clamp



Width	Catalogue Number
1.5"	(Prefix)-W-01-HCC
3"	(Prefix)-W-03-HCC
4"	(Prefix)-W-04-HCC
6"	(Prefix)-W-06-HCC

Closed End Plate



Width	Catalogue Number
1.5"	(Prefix)-W-01-CEP
3"	(Prefix)-W-03-CEP
4"	(Prefix)-W-04-CEP
6"	(Prefix)-W-06-CEP

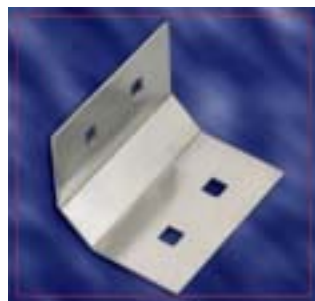
Selection Guide

Prefix: **ALT**(Alum.), **SPT**(Pre-Galv.), **SHT**(Hot Dip Galv.),
SST(Stainless Steel)

Inside Channel Widths: **01=1.5"**, **03=3"**, **04=4"**, **06=6"**

Channel Mounting Bracket

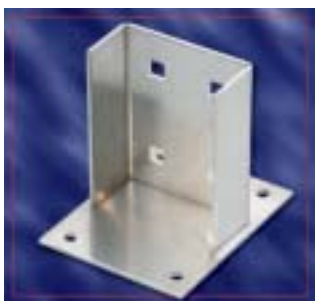
Width	Catalogue Number
1.5"	(Prefix)-W-01-CCB
3"	(Prefix)-W-03-CCB
4"	(Prefix)-W-04-CCB
6"	(Prefix)-W-06-CCB

Channel to Cable Tray Plate

Width	Catalogue Number
1.5"	(Prefix)-W-01-CCT
3"	(Prefix)-W-03-CCT
4"	(Prefix)-W-04-CCT
6"	(Prefix)-W-06-CCT

Channel Straight Reducer Plate

Width	Catalogue Number
3" to 1"	(*)-W-03-01-RSP
4" to 1"	(*)-W-04-01-RSP
6" to 1"	(*)-W-06-01-RSP
4" to 3"	(*)-W-04-03-RSP
6" to 3"	(*)-W-06-03-RSP
6" to 4"	(*)-W-06-04-RSP

Channel to Floor Base Plate

Width	Catalogue Number
1.5"	(Prefix)-W-01-CBP
3"	(Prefix)-W-03-CBP
4"	(Prefix)-W-04-CBP
6"	(Prefix)-W-06-CBP

Selection Guide

Prefix: ALT(Alum.), SPT(Pre-Galv.), SHT(Hot Dip Galv.), SST(Stainless Steel)

Inside Channel Widths: 01=1.5", 03=3", 04=4", 06=6"

Channel to Tray Mounting Bracket



Width	Catalogue Number
1.5"	(Prefix)-W-01-TCB
3"	(Prefix)-W-03-TCB
4"	(Prefix)-W-04-TCB
6"	(Prefix)-W-06-TCB

Single Channel Hanger



Width	Catalogue Number
For use with all widths	SPT-W-06-CCH SHT-W-06-CCH

Note: Designed for use with 1/2" threaded rod

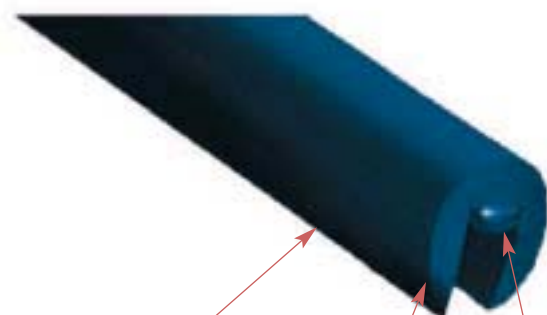
Double Channel Hanger



Width	Catalogue Number
For use with all widths	SPT-W-06-DCH SHT-W-06-DCH

Note: Designed for use with 1/2" threaded rod

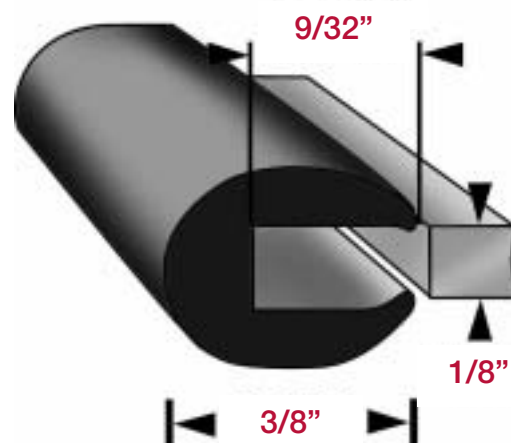
Channel Rubber Edge Trim



Very flexible to
fit tight radius

Wear and
fuel resistant
neoprene

Note:
Available on
request with
Pre-applied
butyl sealant
or hot-melted
adhesive



Width	Catalogue Number	Description
For use with 3", 4" and 6"	RET-BUSH	Rubber edge trim - Bushing - Standard pack of 10
For use with all widths	RET-50	Rubber edge trim - 50 foot roll
For use with all widths	RET-500	Rubber edge trim - 500 foot roll

Product Specifications: Recommended temperature range: -40°C through -106°C.

Base Material: Dense Neoprene Rubber.

APPENDIX

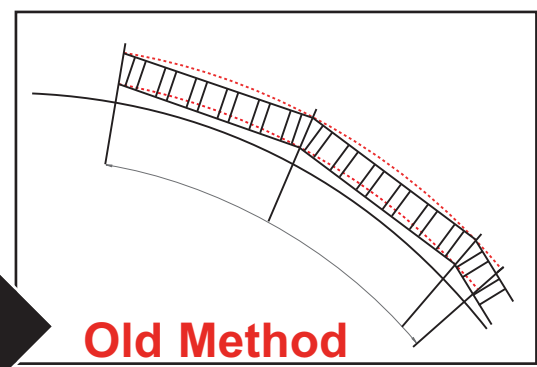
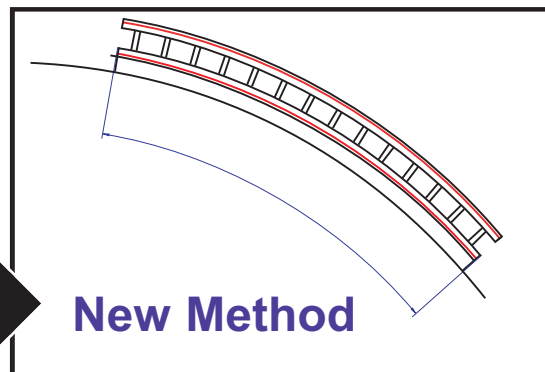
Large Radius Aluminum Cable Tray

This cable tray design offers a custom-built cable support system for each Petrochemical project tank or tower. This cable tray system is usually installed around the outer perimeter of the catwalks and stairs which are mounted on the tank or vessel.

Thomas & Betts takes pride in manufacturing a complete system to meet your most rigorous requirements. Our cable support systems reduce the costly and labor-intensive modifications required to assemble straight sections, splice plates and accessories to fit your tank or vessel.

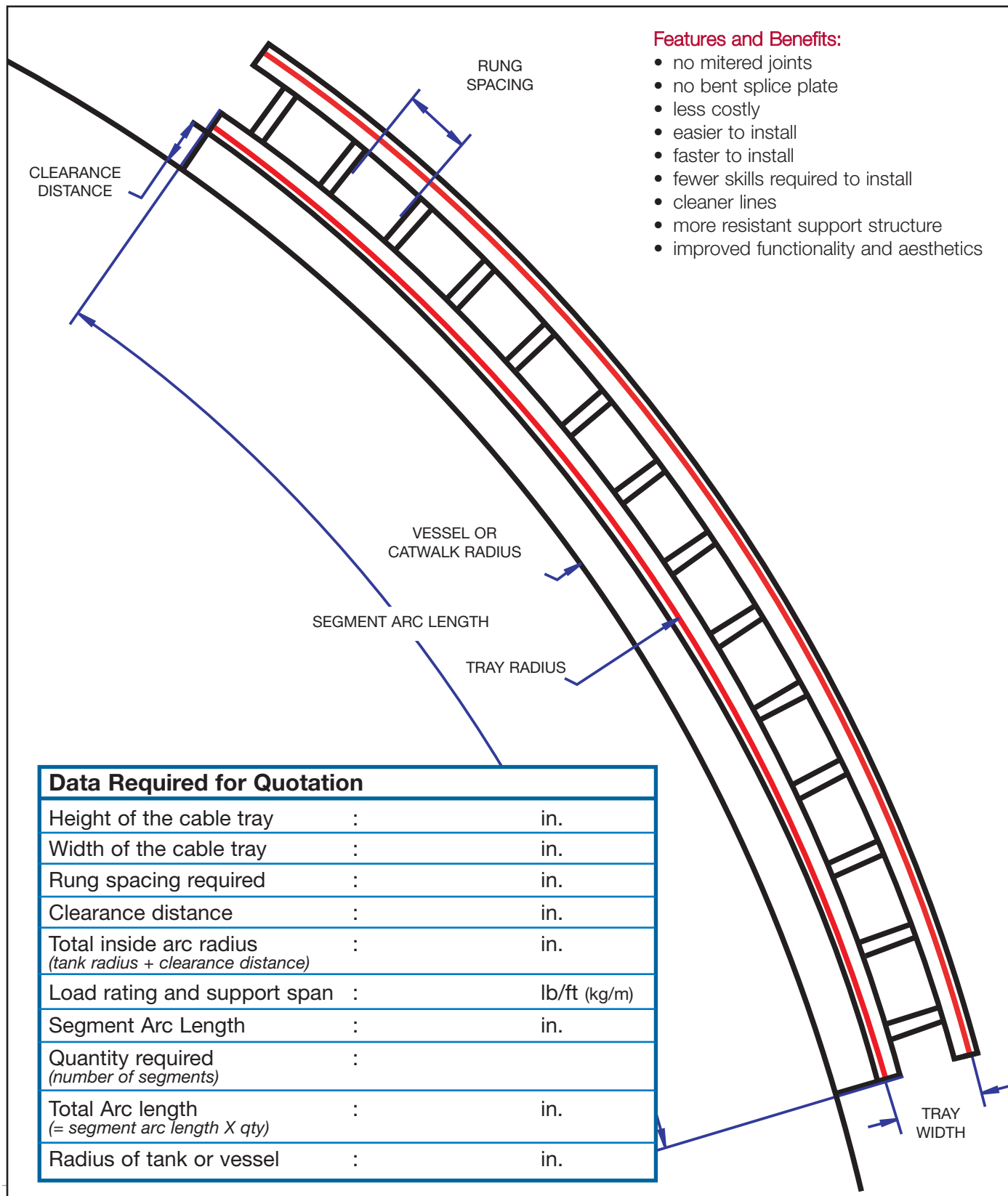
Thomas & Betts Large Radius Aluminum cable tray systems mount flawlessly with no extra cutting, set-up or surplus material. With the option of pre-assembly of this cable tray system prior to erection of the tank or vessel, you can drastically reduce installing time.

Technical Specifications



Large Radius Aluminum Cable Tray

APPENDIX



Aluminum Mid-Span Splice Plate

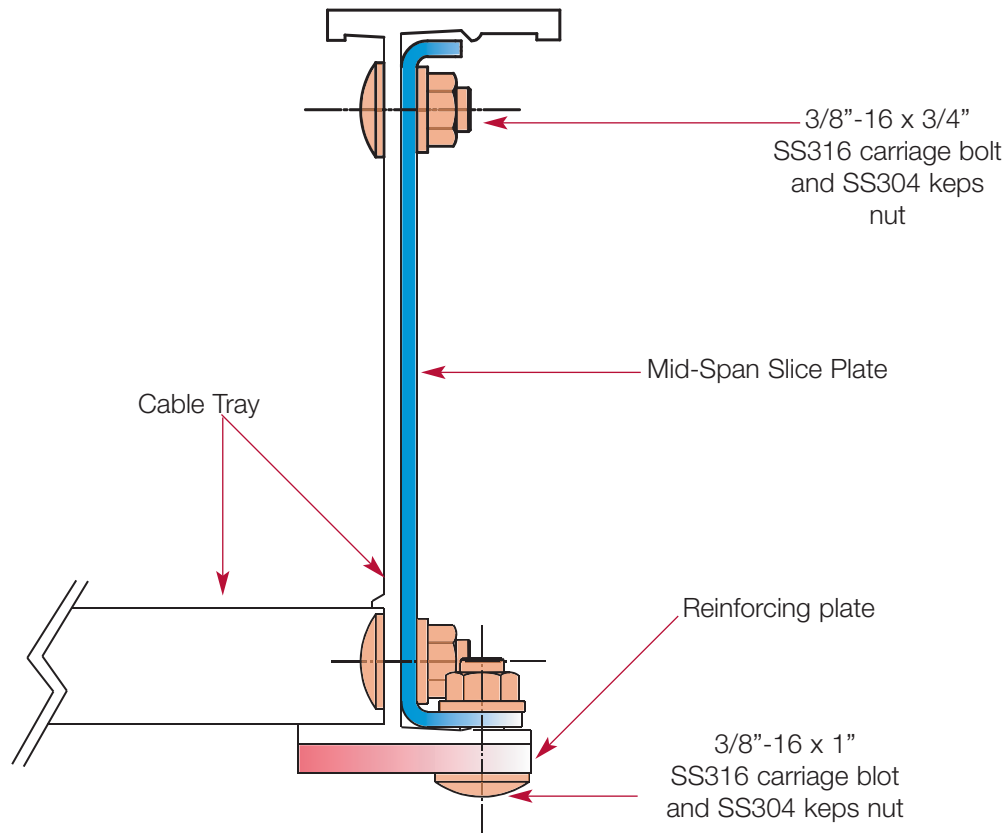


Features:

- Factory pre-drilled side rails for on above series easy installation
- Allows random connexion location
- Tested loading 160 lb/ft, based on a 20ft simple beam test with 1.5 safety factor (tested with AH66 series)
- Supplied with Stainless steel type 316 hardware
- Available on ladder, vented or solid tray style
- Only available in the following series of aluminum tray: AH46, AH56, AH66 and AH76*

*(20ft Support Span only)

The Splice Plate

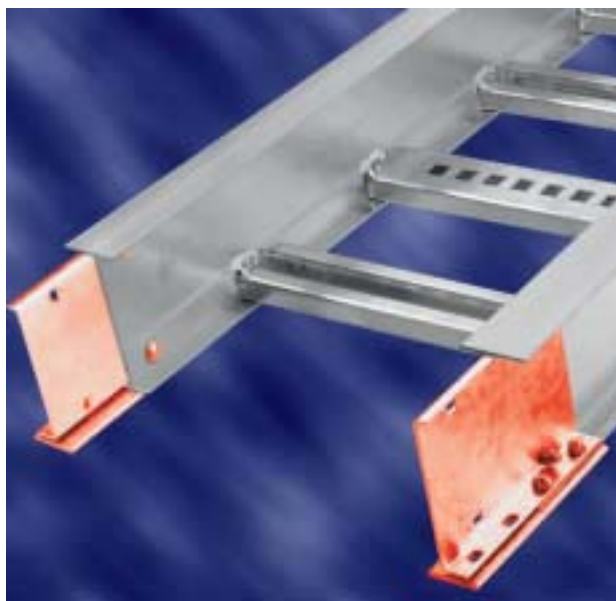


Part #: ABW6SSPMS

Mid-Span Splice Plate

APPENDIX

Typical Installation of Mid-Span Splice Plate



These heavy-duty splice plates are designed to allow random splice location, including the midspan for 20ft support spans. These splices are available for all long-span, ladder, vented or solid tray style.

Note: Also available on fittings to complete the system if required. Please consult the factory for more information.

Ordering Information

Straight Section Number Selection

(AMS4-6)-24-L09-6

Material Style	Series	Siderail Depth	Width	Bottom Type	Length
AMS • Mid-Span Splice	4 • Series 4 5 • Series 5 6 • Series 6 7 • Series 7	6 • (6")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing V • Ventilated S • Solid Trough	6 • (6 meters) 288 • (24ft)

To order straight sections with Mid-Span Splice Plate, replace "AH" in the standard part number with "AMS".

Example: AH6624L12-6

AMS6624L12-6

APPENDIX

Long Span Systems (30 ft) Straight Section Series 7-6, 4-7, 1-8

Straight Section Number Selection

(A H 7 - 6) - 2 4 - L 0 9 - 3 6 0

Material Style	Series / Siderail Depth	Width	Bottom Type	Length
H • H-Beam	76 • (6") 47 • (7") 18 • (8")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36")	L06 • 6" rung spacing L09 • 9" rung spacing L12 • 12" rung spacing V • Ventilated S • Solid Trough	360 • (30ft)

Note: Only available in these series and sides rail depths.

Technical Specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

DEFLECTION FACTOR

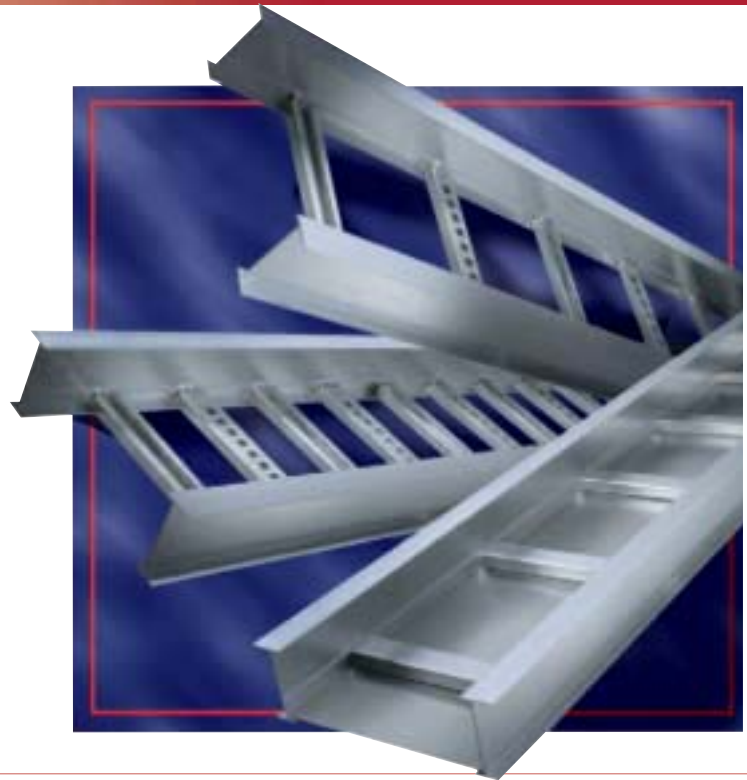
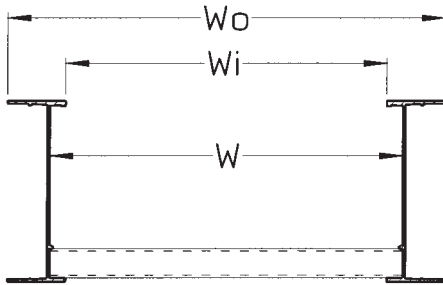
For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

For FITTINGS consult pages 60 to 99.

Series		Support Span (Feet)						
		18	20	22	24	26	28	30
AH7-6	Load (lb/ft)	228	185	153	128	109	94	82
	Deflection (in.)	2.457	3.033	3.670	4.367	5.125	5.944	6.824
	Deflection Factor	0.011	0.016	0.024	0.034	0.047	0.063	0.083
AH4-7	Load (lb/ft)	292	236	195	164	140	121	105
	Deflection (in.)	1.869	2.308	2.793	3.324	3.901	4.524	5.193
	Deflection Factor	0.006	0.010	0.014	0.020	0.028	0.038	0.049
AH1-8	Load (lb/ft)	522	423	350	294	250	216	188
	Deflection (in.)	2.113	2.609	3.157	3.757	4.409	5.114	5.871
	Deflection Factor	0.004	0.006	0.009	0.013	0.018	0.024	0.031

Long Span Systems (30 ft) Straight Section Series 7-6, 4-7, 1-8

APPENDIX



	AH7-6		AH4-7		AH1-8	
W (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)	Wo (in.)	Wi (in.)
6	4.92	8.92	4.62	8.62	4.55	10.55
9	7.92	11.92	7.62	11.62	7.55	13.55
12	10.92	14.92	10.62	14.62	10.55	16.55
18	16.92	20.92	16.62	20.62	16.55	22.55
24	22.92	26.92	22.62	26.62	22.55	28.55
30	28.92	32.92	28.62	32.62	28.55	34.55
36	34.92	38.92	34.62	38.62	34.55	40.55
42	40.92	44.92	40.62	44.62	40.55	46.55

Technical Specifications

LOAD RATINGS

1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (siderail, rung, etc.) above and beyond published load class.

SERIES	DIMENSIONS	SIDERAIL DESIGN FACTORS • 1 PAIR	CLASSIFICATIONS		
			NEMA	CSA	UL
AH7-6		$I_x = 21.96 \text{ in}^4$ $S_x = 6.38 \text{ in}^3$ Area = 3.82 in^2	20C+	—	UL Cross Sectional Area : 2.00 in^2
AH4-7		$I_x = 36.85 \text{ in}^4$ $S_x = 9.08 \text{ in}^3$ Area = 4.65 in^2	Exceeds 20C+	—	UL Cross Sectional Area : 2.00 in^2
AH1-8		$I_x = 58.36 \text{ in}^4$ $S_x = 13.37 \text{ in}^3$ Area = 5.86 in^2	Exceeds 20C+	—	UL Cross Sectional Area : 2.00 in^2

Horizontal Bend / Vertical Inside Bend



Straight Section Number Selection

A U W - 12 - PFC - HB - 90 - 24

Material	Fitting Style	Width	Cover Type	Fitting Type	Degree	Nominal Radius
A • Aluminum	U • U-Beam H • H-Beam	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	PFC Peaked flanged cover PVC Peaked vented flanged cover	HB- Horizontal bend VI- Vertical inside Bend	30 45 60 90	12 • (12") 24 • (24") 36 • (36") 48 • (48")

Vertical Outside Bend



Straight Section Number Selection

A U W - 4 - 1 2 - P F C - V O - 9 0 - 2 4

Material	Fitting Style	Siderail Height	Width	Cover Type	Fitting Type	Degree	Nominal Radius
A • Aluminum	U • U-Beam H • H-Beam	4 • (4") 5 • (5") 6 • (6") 7 • (7")	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	PFC Peaked flanged cover PVC Peaked vented flanged cover	VO- Vertical outside bend	30 45 60 90	12 • (12") 24 • (24") 36 • (36") 48 • (48")

Horizontal Tee / Horizontal Cross



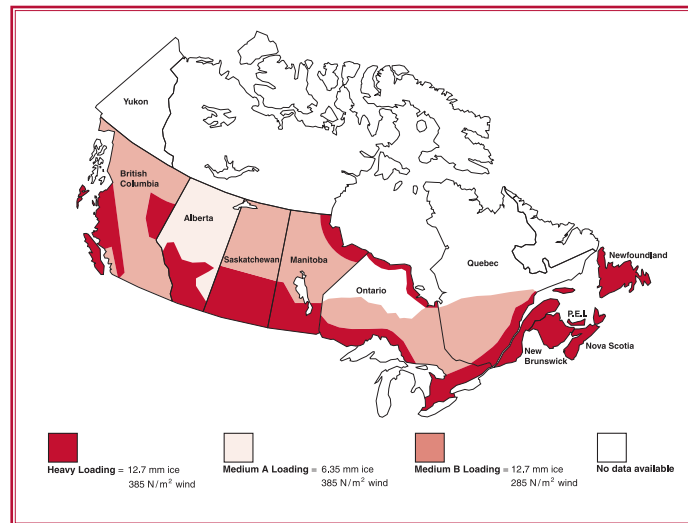
Straight Section Number Selection

A U W - 1 2 - P F C - H T - 2 4

Material	Fitting Style	Width	Cover Type	Fitting Type	Nominal Radius
A • Aluminum	U • U-Beam H • H-Beam	06 • (6") 09 • (9") 12 • (12") 18 • (18") 24 • (24") 30 • (30") 36 • (36") 42 • (42")	PFC Peaked flanged cover PVC Peaked vented flanged cover	HT- Horizontal tee HX- Horizontal cross	12 • (12") 24 • (24") 36 • (36") 48 • (48")

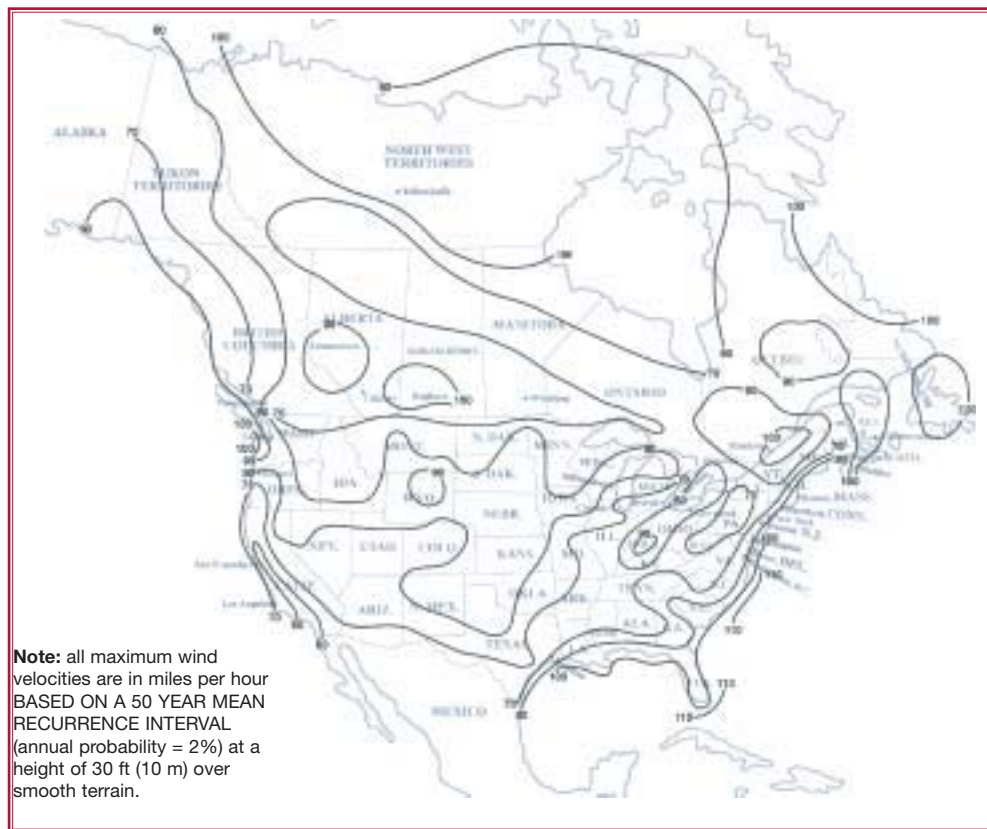
Figure 250-1CDN and 250-2CDN Loading for Grades B, C and D

ANNEX A Canadian Customers



General Loading Map of Canada
with respect to loading of overhead lines.

Fig. 250-1CDN



Basic Wind Speed (miles per hour).

Fig. 250-2CDN

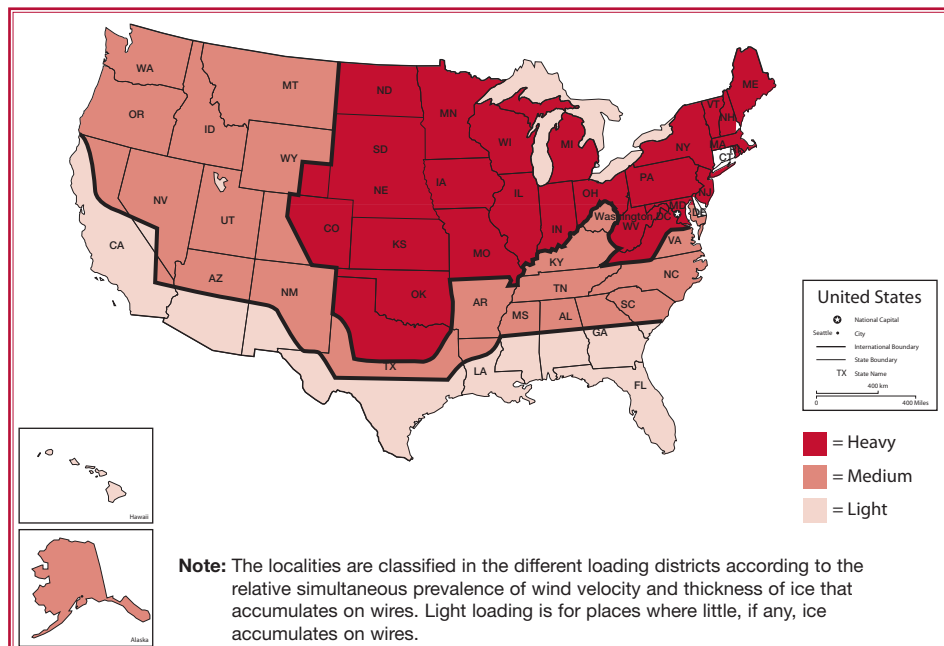
Figure 250-2CDN is a wind map of the contiguous United States and Alaska reproduced from ASCE 7-88 [52]. For Hawaii and Puerto Rico, the basic wind speeds are 80mi/h and 95 mi/h, respectively.

Note: Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.

ANNEX B

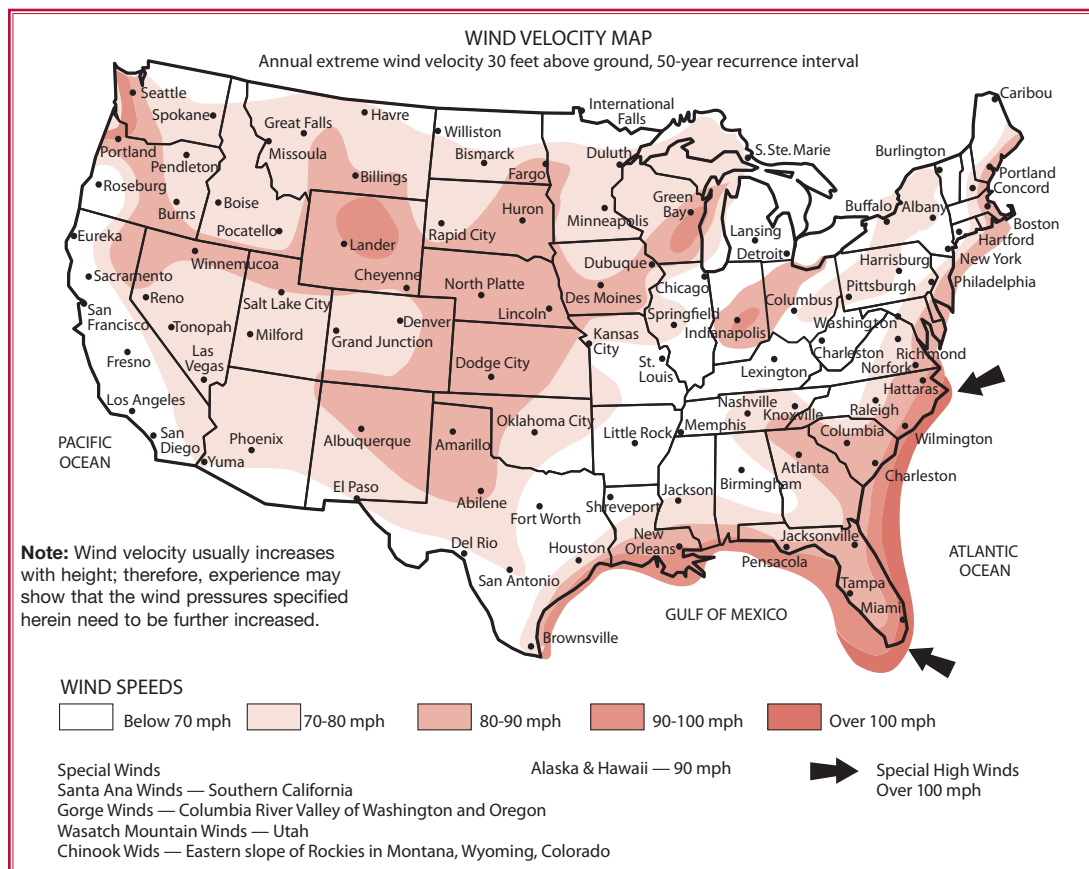
US Customers

Figure 250-1USA and 250-2USA Loading for Grades B, C and D



General Loading Map of USA
with respect to loading of overhead lines.

Fig. 250-1USA



Basic Wind Speed (miles per hour).
(This figure is reproduced by permission of the American Society of Civil Engineers.)

Fig. 250-2USA

ExpressTray™ Wire Basket Tray

Other Products offered by T&B

The fast track in cable management systems

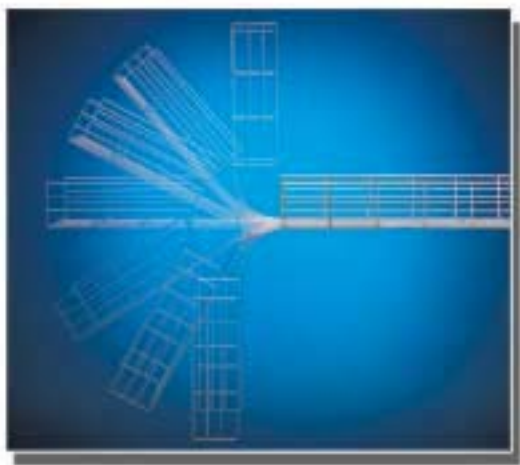
The demands placed on cabling routing systems and their designers, installers and maintainers are increasingly complex and ever changing.

The ExpressTray™ cable management system is a complete solution for managing light power, voice and data cables in commercial and industrial facilities that delivers simplicity, efficiency, versatility and performance.

The system is simple. No complicated layouts are required prior to arriving on the job site; no time is wasted waiting for overlooked components to arrive.

The ExpressTray system requires no corner, crossing or bend elements. Any layout can be achieved, any obstacle overcome, simply with a length of tray and a pair of wire cutters. As workplace needs change, the system can easily be reconfigured to meet new requirements.

Whatever the challenges, the ExpressTray cable management system has the power to get any project on track and completed on time at the minimum installed cost.



For further information, please contact your local T&B Sales Office.



Other Products offered by T&B

Non-Metallic Cable Tray and Strut Systems

Non-Metallic Cable Tray and Strut Systems

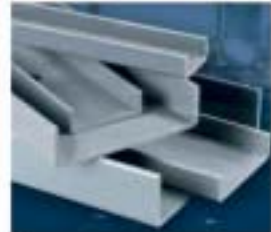
Non-metallic Cable Tray Systems have been tested and proven in the harsh environment of the offshore oil and gas industry. Subject to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and saltwater – Non-metallic Cable Tray has stood up!

Non-metallic Cable Tray gives you the load capacity of steel plus the inherent characteristics afforded by our pultrusion Technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products. Non-metallic Cable Tray will not rust, nor do they ever require painting.



Non-Metallic Cable Tray comes in two colors: Slate grey (polyester resin) and Beige (vinylester resin). Custom colors are available on request.

For further information, please contact your local T&B Sales Office.



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