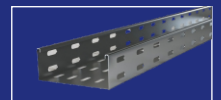Arabian Insulation FZE

Electrical & Mechanical Cable Management Support Systems

- Cable Tray

- Channel and Metal Framing

- Cable Ladder

- Cable Basket

- Pipe and Cable Clamps

- GI-Cable Trancking

Delivering world class solutions in cable management.

AIFZE is a global leader in the design, development and supply of cable support and management solutions.

From Ty-Rap® cable ties to complete cable tray systems, AIFZE products are renowned for delivering robust, reliable and high performance solutions to the electrical marketplace.

With a long history of excellence and innovation, AIFZE products offer the complete solution to your electrical needs.

AIFZE is now manufacturing cable tray systems, including perforated tray, cable ladder, channel tray and strut (metal framing), directly from our new production facility at Dubai United Arab Emirate.

Combining local manufacture and distribution with an extensive product range, this facility ensures we can effectively support customer demand and respond rapidly to project timelines for all types of installation across the Middle East.

So, whether specifying a major new project, or simply refurbishing existing facilities, choose AIFZE cable tray to deliver the most effective, reliable and long lasting support for your cabling needs

AIFZE perforated tray
is ideal for a wide range of commercial, industrial & public sector projects:

Commercial
- Offices & retail centres
- Hotels & resorts
- Stadia & concert halls

Industrial
- Automotive plants
- Food processing
- Pharmaceutical &

Oil & Gas
- Petrochemical plants
- Oil & Gas refineries
- Offshore platforms

Public sector
- Schools & universities
- Hospitals & healthcare
- Government buildings
- Schools & universities

Infrastructure
- Airports
- Rail terminals
- Tunnels

Utilities
- Power stations
- Water treatment facilities

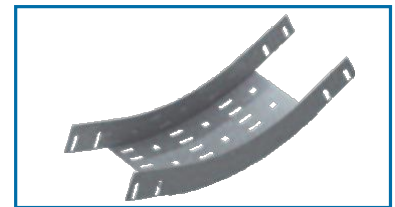## AIFZE Cable Tray perforated tray delivers the comprehensive, flexible solution For supporting cable.

AIFZE perforated tray is a durable and cost effective solution for supporting cable, which is easy to install, modify and maintain.Suitable for a wide variety of industries and installations, AIFZE perforated tray offers

Extensive product range

AFIZE® perforated tray is available in aluminium or steel, from medium duty to ultra heavy duty, to cover all types of installation. Straight sections are complemented by an extensive selection of fittings, covers and accessoriesto permit specification of full perforated tray systems from a single source.

Increased adaptability

Businesses must remain flexible - to be able to expand facilities quickly, or introduce new processes or product lines as markets dictate. AIFZE perforated tray offers a major advantage in being highly adaptable to meet new needs and technology, with no need to replace the system with each new development.

Low maintenance

Cable tray wiring systems have a lower maintenance demand than conduit or other systems. When maintenance is necessary, it proves easier, less labour intensive, and requiresless time to complete.

First class support

Enhanced safety

AIFZE perforated tray offers enhanced safety with lower risk of exposure to live, energised parts. In a perforated tray system, cables can be pulled from near one termination enclosure to the next before being connected, rather than being pulled through conduit after the cable is terminated.
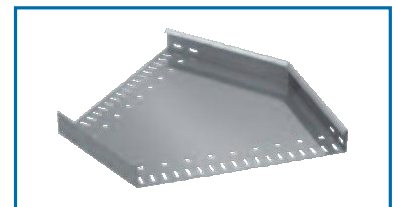
Reduced costs

Reliability and adaptability coupled with ease of maintenance result in perforated tray systems delivering many types of cost saving, including:

● Lower installation, engineering and maintenance costs

● Lower need to reconfigure the system as needs change

● Reduced downtime for electrical and data handling systems

● Fewer environmental problems resulting from loss of power to essential equipment

Contents

AIFZE combines global market leadership with local product & technicalsupport, either through our network of distributors, or viaour AIFZE sales & production facility at Dubai, United Arab Emirate.

AIFZE perforated tray is available in four material types for maximum versatility

Material types

● Aluminium
● Steel (pre-galvanized, hot dip galvanized and stainless steel grades 304 and 316)

AIFZE perforated tray has four

duty types with differing siderail heights - 25 mm (medium duty), 50 mm (heavy duty), 75

Aluminium (to 1050 H14)

Aluminium 1050 H14 alloy for lightweight construction, excellent corrosion resistance, and high strength-to-weight ratio. Aluminium cable tray offers simple installation and low maintenance.

Pre-galvanized steel (to BS EN 10142 & BS EN 10143)

 Steel is ideal as a high strength, low cost material for cable tray.Pre-galvanized steel tray is produced by passing the low-carbon steel through molten zinc before fabrication, and is generally recommended for indoor commercial applications rather than outdoor or industrial environments.

Hot dip galvanized steel (to BS EN ISO 1461)

Hot dip galvanized steel tray is produced by immersing the fabricated tray in molten zinc, creating a much thicker coating than pre-galvanized. This process is recommended for most outdoor and harsh industrial applications.

Stainless steel (to AISI Type 316 or 304)

Stainless steel offers high strength and high resistance to chemicals, evenat high ambient temperatures. AIFZE stainless steel cable tray is rollformed from AISI Type 316 or 304 stainless steel.

AIFZE perforation pattern

The pattern used on AIFZE perforated tray has been specifically designed to meet Middle East market expectations and to ensure all component parts can be quickly and easily coupled together, keeping installation time to a minimum. Included in the pattern are burr free slots and squares for securing barrier strips,mounts and supports, and also for securing Ty-Rap® cable ties when
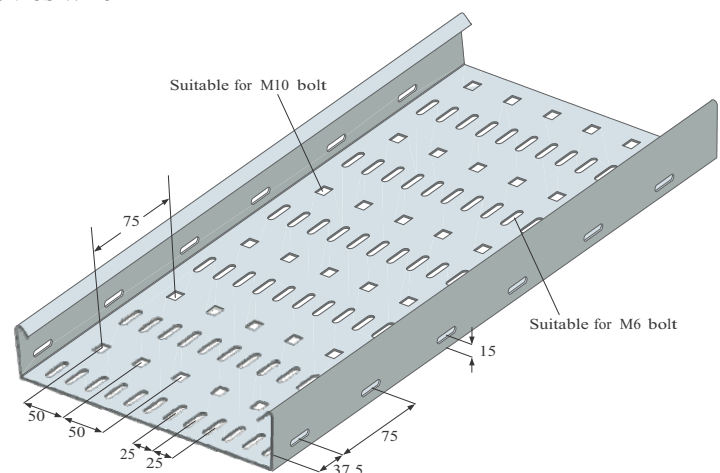
Note: cable tray edges and welds are rounded and smoothed during manufacture to prevent cable damage. Care should be taken when handling cable tray and protective glovesshould be worn to avoid risk of injury

AIFZE perforated tray delivers the complete, versatile solution for cable management, with straight sections, fittings, and covers etc., developed to overcome the design constraints found in all kinds of buildings and locations.

Straight section

Pre-fabricated steel or aluminium straight sections designed with a perforation pattern which permits efficient connection of Ty-Rap® cable ties, supports and accessories. Available in aluminium or steel in a range of finishesto cover all possible installation needs. Supplied complete with standard coupler for connection to fittings and other straight sections.

Fittings

Including bends, reducers, tees and crosses, fittings enable a perforated tray system to change direction, elevation or size to meet building design/cable run constraints.

Covers

Available for all cable tray widths and material types, covers provide mechanical protection and should be installed where falling objects may damage cables or where vertical tray runs are accessible by pedestrian or vehicular traffic. Styled as solid or ventilated for varying installation needs, each including an integral flange to enable quick and simple positioning

Accessories

A complete line of accessories and supportsto supplement the function of straight sections and fittings, including couplers, cover brackets, barrier strips, end plates and

Straightsections and fittings provide the flexibility to allow cable tray O B installationsto follow cable runs which are either planned for new projects or already exist in buildings, as shown in the illustration right.

A	Extra heavy duty tray
B	Flat cover
C	Barrier strip
D	Horizontal cross
E	Horizontal 45°
F	Horizontal 90°
G	Horizontal tee
H	Straight reducer
I	Cranked coupler
J	Solid channel tray
K	Vertical 90° outside
L	Vertical 90° inside
M	Heavy duty tray
N	Medium duty tray
O	Vertical 45° outside
P	Vertical 45° inside
Q	Reducer - right
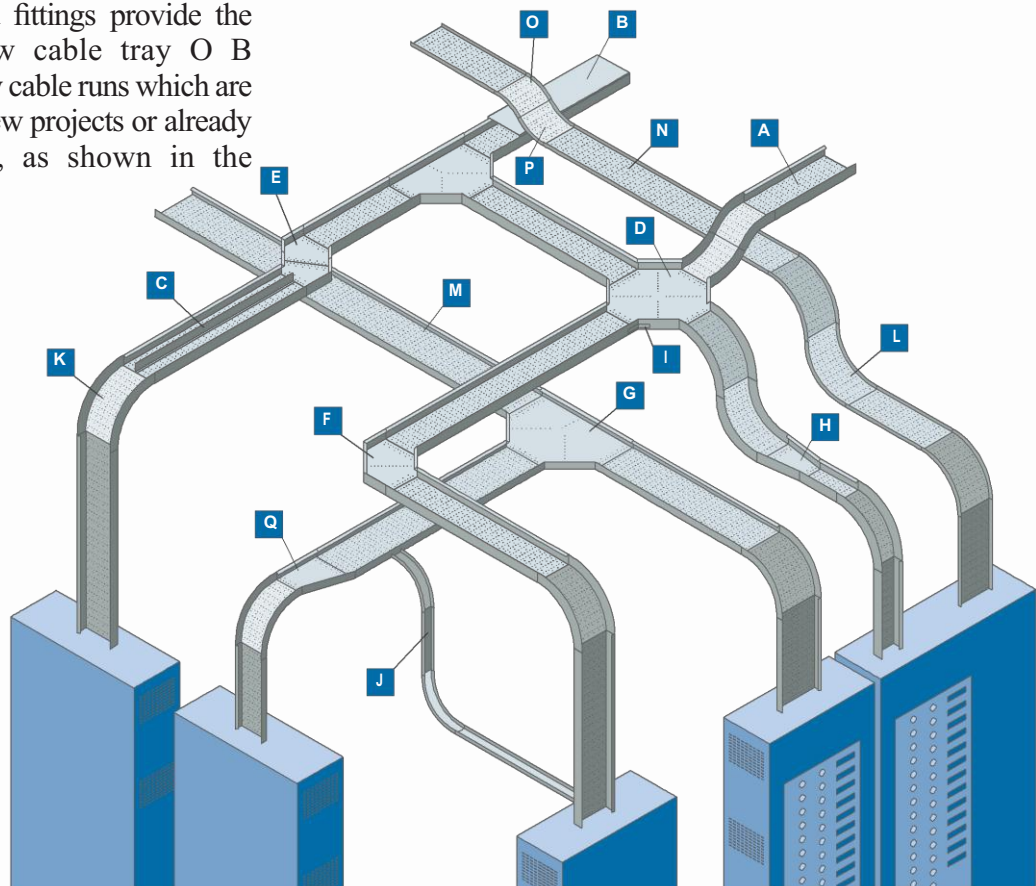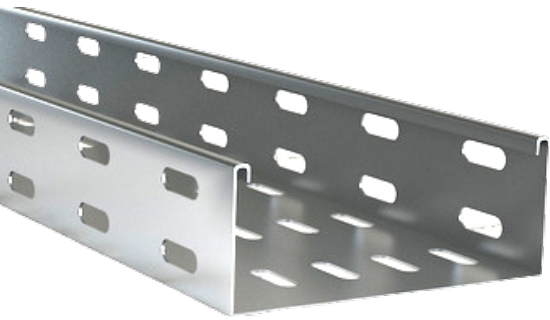
Straight sections are available in aluminium, or steel in a range of finishes,and are supplied complete with standard coupler and tray hardware

Features & benefits

● High quality manufacturing delivers enhanced system rigidity
● Choice of aluminium, pre-galvanized, hot dip galvanized, or stainless (304 or 316) steel
● Siderails include return flange for increased strength, safety, enhanced aesthetics and customer appeal
● Siderail heights from 25 mm to 100 mm for mediumto ultra heavy duty applications
● Extensive range of tray widths, from 50 mm to 900 mm
● Standard coupler (2 per section) included with each section

Product selection - straight section

Straight section part numbers are created using a range of selection criteria. Determine the most suitable perforated tray type based on the parameters shown, then use the table below to create the exact part number for your needs. **IMPORTANT NOTE:** When specifiying perforated tray, note that the tray width must always be greater than the siderail height. For example, medium duty tray with 25 mm siderail can have tray widths from 50 mm to 900 mm as per the table below, whereas for heavy duty tray with 50 mm siderail, tray width starts at 75 mm, and so on for extra heavy duty (75 mm siderail/minimum width 100 mm) and ultra heavy duty (100 mm siderail/minimum width 150 mm).

Straight section

Select the preferred component parts and createthe specific
part number as per the example shown.

SHP75-450SL15-3

Material	Siderail height	Tray width	Type	Material thickness*	Length
ALP I Aluminium	25 I 25 mm	50 I 50 mm	SL I Straight section	1 I 1 mm	3 I 3 m
SPP I Pre-galvanized steel	50 I 50 mm	75 I 75 mm		15 I 1.5 mm	
SHP I Hot dip galvanized steel	75 I 75 mm	100 I 100 mm		20 I 2 mm	
SS4P I Stainless steel 304	100 I 100 mm	150 I 150 mm			
SS6P I Stainless steel 316		225 I 225 mm			
		300 I 300 mm			
		450 I 450 mm			
		600 I 600 mm			
		750 I 750 mm			
		900 I 900 mm			

* Medium duty perforated tray (25 mm siderail) is supplied with a material thickness of 1 mm for tray widths 50 mm to 225 mm, and 1.5 mm for tray widths 300 mm to 900 mm.Heavy to ultra heavy duty perforated tray (50 mm, 75 mm and 100 mm siderail) is supplied with a material thickness of 1.5 mm for tray widths 75 mm to 300 mm, and 2 mm for tray widths 450 mm to 900 mm

Fittings enable a perforated tray system to change direction, elevation or size in order to meet building design and cable run constraints

Features & benefits

● All fittings follow a simple,functional design with connection points
at all siderail ends for attachment to straight sections/couplers
● Easy to install with straightforward alignment between straight sections and fittings
● Available in all material types - aluminium, pre-galvanized, hot dip galvanized and stainless(304 or 316) steel
● Siderail heights from 25 mm to 100 mm
● Extensive range of tray widths from 50 mm to 900 mm
● Lightweight design for easy handling on-site

Range of fittings

A full suite of fittings ensures the cable tray system can be planned to fit
building and cable run constraints within all types of installation.
The full range includes:
● Horizontal bends - from 30º to 90º
● Vertical bends - inside and outside bends from 30º to 90º
● Horizontal tee
● Horizontal cross
● Straight, left or right reducer
All perforated tray components have been designed to allow a cable bend radius of 300 mm, to simplify planning, design and installation.

Product selection - fittings

Fitting part numbers are based on a range of selection criteria, dependent
on the type of fitting and the role undertaken in the cable tray system.
Over the following pages, the selection criteria for each fitting type is
established in table form.
Specifiers should choose the appropriate component part from the lists in the
tables and create the part number following the example shown.
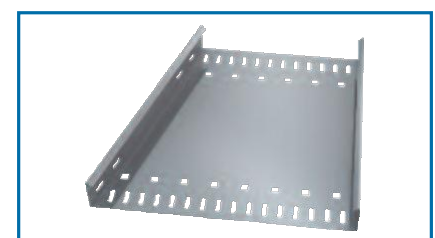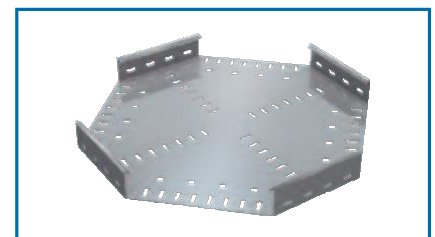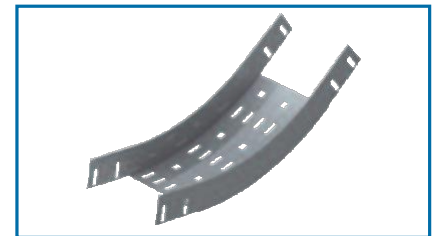
Horizontal bends enable the cable tray system to change direction in the same plane.

Horizontal bends are available in all material types, siderail heights and tray widthsto match straight sections.

● Available with angles of 30º, 45º, 60º or 90º

Horizontal bend

Select the preferred component parts and create the specific part number as per the example shown
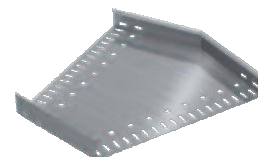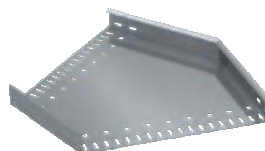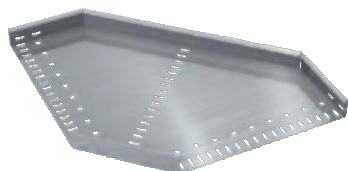
ALP50-300HB45

Material	Siderail height	Tray width	Fitting type	Angle
ALP I Aluminium	**25** I 25 mm	50 I 50 mm	HB I Horizontal bend	30 I 30º
SPP I Pre-galvanized steel	**50** I 50 mm	75 I 75 mm		45 I 45º
SHP I Hot dip galvanized steel	**75** I 75 mm	100 I 100 mm		60 I 60º
SS4P I Stainless steel 304	**100** I 100 mm	150 I 150 mm		90 I 90º
SS6P I Stainless steel 316		225 I 225 mm		
		300 I 300 mm		
		450 I 450 mm		
		600 I 600 mm		
		750 I 750 mm		
		900 I 900 mm		

90º	60º	45º	30º

Vertical bends enable the cable tray system to change direction to a different plane.

An inside vertical bend changes direction upward from the horizontal plane. An outside vertical bend changes direction downward from the horizontal plane.

Vertical bends are available in all material types, siderail heights and tray widthsto match straight sections.

● Available with angles of 30º, 45º, 60º or 90º
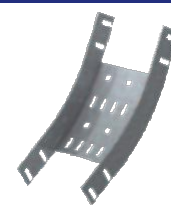
Vertical bend

ALP50-300VI45

Material	Siderail height	Tray width	Fitting type	Angle
ALP I Aluminium	25 I 25 mm	50 I 50 mm	VI I Vertical inside bend	30 I 30º
SPP I Pre-galvanized steel	50 I 50 mm	75 I 75 mm	VO I Vertical outside bend	45 I 45º
SHP I Hot dip galvanized steel	75 I 75 mm	100 I 100 mm		60 I 60º
SS4P I Stainless steel 304	100 I 100 mm	150 I 150 mm		90 I 90º
SS6P I Stainless steel 316		225 I 225 mm		
		300 I 300 mm		
		450 I 450 mm		
		600 I 600 mm		
		750 I 750 mm		
		900		

Inside bend	90º	60º	45º	30º

Outside bend	90º	60º	45º	30º

Horizontal tee & cross

SS6P100-750HT

Material	Siderail height	Tray width	Fitting type
ALP I Aluminium	25 I 25 mm	50 I 50 mm	HT I Horizontal tee
SPP I Pre-galvanized steel	50 I 50 mm	75 I 75 mm	HX I Horizontal cross
SHP I Hot dip galvanized steel	75 I 75 mm	100 I 100 mm	
SS4P I Stainless steel 304	100 I 100 mm	150 I 150 mm	
SS6P I Stainless steel 316		225 I 225 mm	
		300 I 300 mm	
		450 I 450 mm	
		600 I 600 mm	
		750 I 750 mm	
		900 I 900 mm	

Horizontal cross

Reducers enable joins to be made in the cable tray system to fittings or straight sections of different widths, in the same plane.
An offset reducer has the reduction set to a single side (right or left).
A straight reducer has two symmetrical offset sides.
Available in all material types, siderail heights and tray widths to match straight sections.
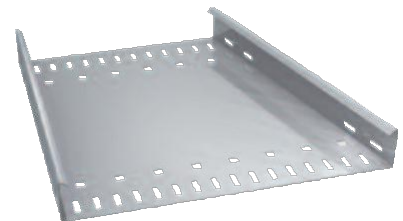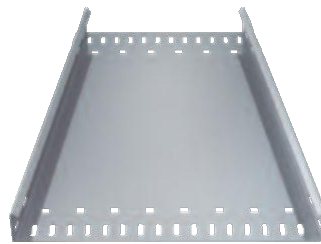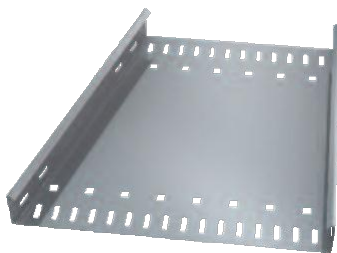● For reduction, tray width 2 should be less than tray width 1
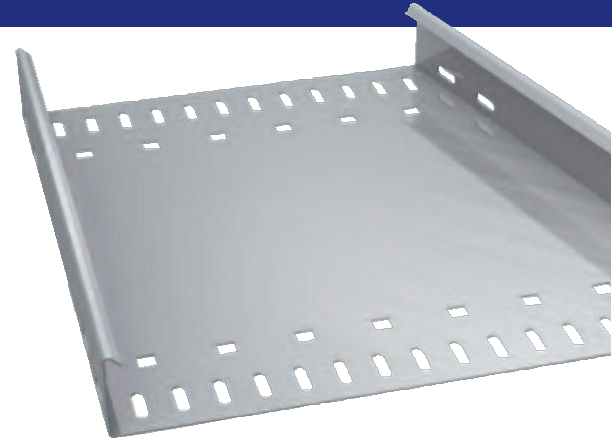
Reducer

Select the preferred component parts and create the specific part number as per the example shown.

ALP50-300-150SR

Material	Siderail height	Tray width 1	Tray width 2	Fitting type
ALP I Aluminium	25 I 25 mm	75 I 75 mm	50 I 50 mm	SR I Straight reducer
SPP I Pre-galvanized steel	50 I 50 mm	100 I 100 mm	75 I 75 mm	LR I Offset reducer - left
SHP I Hot dip galvanized steel	75 I 75 mm	150 I 150 mm	100 I 100 mm	RR I Offset reducer - right
SS4P I Stainless steel 304	100 I 100 mm	225 I 225 mm	150 I 150 mm	
SS6P I Stainless steel 316		300 I 300 mm	225 I 225 mm	
		450 I 450 mm	300 I 300 mm	
		600 I 600 mm	450 I 450 mm	
		750 I 750 mm	600 I 600 mm	
		900 I 900 mm	750 I 750 mm	

Reducer   Right   Straight   Left

Tray covers are available for all cable tray widths and material types, in solid flanged or ventilated flanged format.
Covers provide mechanical protection to cable runs and should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.
Solid flanged covers provide maximum mechanical protection for cables which have limited heat build up. Ventilated flanged covers offer excellent mechanical protection whilst allowing heat produced by cablesto dissipate through vents in the surface.
Both solid and ventilated covers include a 15 mm (nominal) flange which enables easy location of the cover above the tray.

Note: cover mounting hardware must be ordered separately for all cover types.

Product selection - covers

Cover part numbers are based on a range of selection criteria, dependent on the type of cover required, and the need to cover straight sections or fittings.

The tables shown below and over the following pages establish the selection criteria for each cover type. Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown.

Cover - straight section

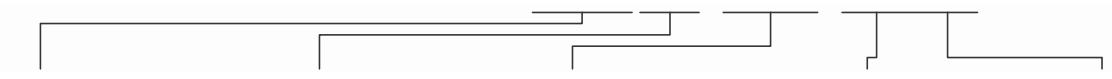Select the preferred component parts and create the specific part number as per the example shown.

SPP75-SFC-3

Material	Tray width	Cover type	Length
ALP I Aluminum	50 I 50 mm	SFC I Solid flanged cover	3 I 3 m
SPP I Pre-galvanized steel	75 I 75 mm	VFC I Ventilated flanged cover	
SHP I Hot dip galvanized steel	100 I 100 mm		
SS4P I Stainless steel 304	150 I 150 mm		
SS6P I Stainless steel 316	225 I 225 mm		
	300 I 300 mm		
	450 I 450 mm		
	600 I 600 mm		
	750 I 750 mm		
	900 I 900 mm		

Cover - horizontal bend & vertical inside bend

Select the preferred component parts and create
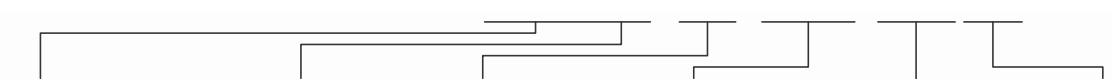the specific part number as per the example shown.

SHP75-SFC-HB45

Material	Tray width	Cover type	Fitting type	Angle
ALP I Aluminium	50 I 50 mm	SFC I Solid flanged cover	HB I Horizontal bend	30 I 30º
SPP I Pre-galvanized steel	75 I 75 mm	VFC I Ventilated flanged cover	VI I Vertical inside bend	45 I 45º
SHP I Hot dip galvanized steel	100 I 100 mm			60 I 60º
SS4P I Stainless steel 304	150 I 150 mm			90 I 90º
SS6P I Stainless steel 316	225 I 225 mm			
	300 I 300 mm			
	450 I 450 mm			
	600 I 600 mm			
	750 I 750 mm			
	900 I 900 mm			

Cover - vertical outside bend

Select the preferred component parts and create
the specific part number as per the example shown.

ALP25-75-SFC-VO90

Material	Siderail height	Tray width	Cover type	Fitting type	Angle
ALP I Aluminium	25 I 25 mm	50 I 50 mm	SFC I Solid flanged cover	VO I Vertical outside bend	30 I 30º
SPP I Pre-galvanized steel	50 I 50 mm	75 I 75 mm	VFC I Ventilated flanged cover		45 I 45º
SHP I Hot dip galvanized steel	75 I 75 mm	100 I 100 mm			60 I 60º
SS4P I Stainless steel 304	100 I 100 mm	150 I 150 mm			90 I 90º
SS6P I Stainless steel 316		225 I 225 mm			
		300 I 300 mm			
		450 I 450 mm			
		600 I 600 mm			
		750 I 750 mm			
		900 I 900 mm			

Cover - reducer

Select the preferred component parts and create
the specific part number as per the example shown.

SS6P75-50-SFC-SR

Material	Tray width 1	Tray width 2	Cover type	Fitting type
ALP I Aluminium	75 I 75 mm	50 I 50 mm	SFC I Solid flanged cover	SR I Straight reducer
SPP I Pre-galvanized steel	100 I 100 mm	75 I 75 mm	VFC I Ventilated flanged cover	LR I Offset reducer - left
SHP I Hot dip galvanized steel	150 I 150 mm	100 I 100 mm		RR I Offset reducer - right
SS4P I Stainless steel 304	225 I 225 mm	150 I 150 mm		
SS6P I Stainless steel 316	300 I 300 mm	225 I 225 mm		
	450 I 450 mm	300 I 300 mm		
	600 I 600 mm	450 I 450 mm		
	750 I 750 mm	600 I 600 mm		
	900 I 900 mm	750 I 750 mm		

Note: for reduction, tray width 2 should be less than tray width 1.

Cover - horizontal tee & cross

Select the preferred component parts and create
the specific part number as per the example shown.

SS4P75-SFC-HT

Material	Tray width	Cover type	Fitting type
ALP I Aluminium	50 I 50 mm	SFC I Solid flanged cover	HT I Horizontal tee
SPP I Pre-galvanized steel	75 I 75 mm	VFC I Ventilated flanged cover	HX I Horizontal cross
SHP I Hot dip galvanized steel	100 I 100 mm		
SS4P I Stainless steel 304	150 I 150 mm		
SS6P I Stainless steel 316	225 I 225 mm		
	300 I 300 mm		
	450 I 450 mm		
	600 I 600 mm		
	750 I 750 mm		
	900 I 900 mm		

Accessories and supports supplement installation of straight sections, covers and fittings.

Accessories enable clamping of covers, separation of cables within trays and variable mounting, support and suspension of the perforated tray system.

Quantity of standard cover brackets required:

Straight section	**6 pieces**
Horizontal and vertical bends	**4 pieces**
Tees	**6 pieces**
Crosses	**8 pieces**

Note: when using the heavy duty cover clamp, only half the quantity of pieces are required.

IMPORTANT NOTE: tray hardware, where included with accessories, is supplied in electro-galvanized format. Stainless steel hardware is available through addition of a suffix, as noted with each applicable accessory.

Straight coupler

For connecting straight sections to fittings and other straight sections. Electro-galvanized hardware included as standard.

Part No.	Material	Part No. variable (*)
ALP-(*)-SSP	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-SSP	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-SSP	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-SSP	Stainless steel 304	75 = 75 mm
SS6P-(*)-SSP	Stainless steel 316	100 = 100 mm

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-SSP-S4** = 25 mm siderail coupler with stainless steel 304 hardware.
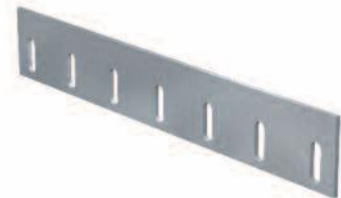
Reducer coupler

For connections between straight sections and fittings or other straight sections, with varying tray widths. Electro-galvanized hardware included as standard.

Part No.	Material	Part No. variable (*)	Part No. variable (+)
ALP-(*)-(+)-RSP	Aluminium	Replace (*) with reference for siderail height:	Replace (+) with reduction amount, eg:
SPP-(*)-(+)-RSP	Steel (pre-galvanized)	25 = 25 mm	25 = 25 mm
SHP-(*)-(+)-RSP	Steel (hot dip galvanized)	50 = 50 mm	300 = 300 mm etc
SS4P-(*)-(+)-RSP	Stainless steel 304	75 = 75 mm	
SS6P-(*)-(+)-RSP	Stainless steel 316	100 = 100 mm	

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: **ALP-25-300-RSP-S4** = 25 mm siderail reducer coupler with stainless steel 304 hardware.

Expansion coupler

For connecting straight sections to fittings and other straight sections allowing for up to 25 mm expansion of the perforated cable tray system.

Part No.	Material	Part No. variable (*)
ALP-(*)-ESP	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-ESP	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-ESP	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-ESP	Stainless steel 304	75 = 75 mm
SS6P-(*)-ESP	Stainless steel 316	100 = 100 mm

Note: to order stainless steel hardware, add suffix **-S4** (stainless steel 304), or **-S6** (stainless steel 316) to Part No. Example: **ALP-25-ESP-S4** = 25 mm siderail expansion coupler with stainless steel 304 hardware.

45º Cranked coupler

For connections between straight sections and fittings or other straight sections, at 45º. Electro-galvanized hardware included as standard.

Part No.	Material	Part No. variable (*)
ALP-(*)-CCP	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-CCP	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-CCP	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-CCP	Stainless steel 304	75 = 75 mm
SS6P-(*)-CCP	Stainless steel 316	100 = 100 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: ALP-25-CCP-S4 = 25 mm siderail cranked coupler with stainless steel 304 hardware.

45º Cranked reducer coupler

For connections between straight sections and fittings or other straight sections with reduced tray widths, at a 45º angle. Electro-galvanized hardware included as standard.

Part No.	Material	Part No. variable (*)	Part No. variable (+)
ALP-(*)-(+)-CRP	Aluminium	Replace (*) with reference for siderail height:	Replace (+) with reduction amount, eg:
SPP-(*)-(+)-CRP	Steel (pre-galvanized)	25 = 25 mm	25 = 25 mm
SHP-(*)-(+)-CRP	Steel (hot dip galvanized)	50 = 50 mm	300 = 300 mm etc
SS4P-(*)-(+)-CRP	Stainless steel 304	75 = 75 mm	
SS6P-(*)-(+)-CRP	Stainless steel 316	100 = 100 mm	

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: ALP-25-300-CRP-S4 = 25 mm siderail cranked reducer coupler with stainless steel 304 hardware.
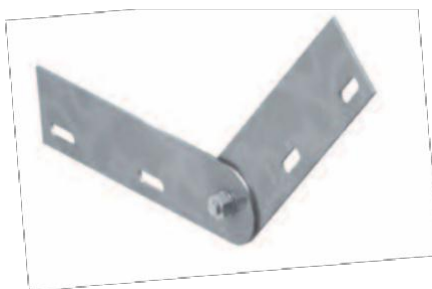
Horizontal adjustable coupler

For connecting straight sections to fittings and other straight sections at an angle in the horizontal plane. Electro-galvanized hardware included as standard

Part No.	Material	Part No. variable (*)
ALP-(*)-HAP	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-HAP	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-HAP	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-HAP	Stainless steel 304	75 = 75 mm
SS6P-(*)-HAP	Stainless steel 316	100 = 100 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to PartNo. Example: ALP-25-HAP-S4 = 25 mm siderail horizontal adjustable coupler with stainless steel 304 hardware.

Vertical adjustable coupler

For connecting straight sections to fittings and other straight sections at an angle in the vertical plane. Electro-galvanized hardware included as standard

Part No.	Material	Part No. variable (*)
ALP-(*)-VSP	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-VSP	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-VSP	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-VSP	Stainless steel 304	75 = 75 mm
SS6P-(*)-VSP	Stainless steel 316	100 = 100 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to PartNo. Example: ALP-25-VSP-S4 = 25 mm siderail vertical adjustable coupler with stainless steel 304 hardware

Cover bracket

For securing covers to straight sections and fittings, with flush fit. Order hardware separately.

Part No.	Material	Part No. variable (*)
ALP-(*)-SCC	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-SCC	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-SCC	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-SCC	Stainless steel 304	75 = 75 mm
SS6P-(*)-SCC	Stainless steel 316	100 = 100 mm

Raised cover bracket

For securing covers to straight sections and fittings, whilst allowing a nominal 25 mm gap for additional ventilation. Order hardware separately.

Part No.	Material	Part No. variable (*)
ALP-(*)-RCC	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-RCC	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-RCC	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-RCC	Stainless steel 304	75 = 75 mm
SS6P-(*)-RCC	Stainless steel 316	100 = 100 mm

Heavy duty cover clamp

Wraparound design offers added protection for rugged applications. Electro-galv. hardware included.

Part No.	Material	Part No. variable (*)	Part No. variable (+)
ALP-(*)(+)-HCC	Aluminium	Replace (*) with reference for siderail height:	Replace (+) with reference for tray width:
SPP-(*)(+)-HCC	Steel (pre-galvanized)		50 = 50 mm 75 = 75 mm
SHP-(*)(+)-HCC	Steel (hot dip galvanized)	25 = 25 mm	100 = 100 mm 150 = 150 mm
SS4P-(*)(+)-HCC	Stainless steel 304	50 = 50 mm	225 = 225 mm 300 = 300 mm
		75 = 75 mm	450 = 450 mm 600 = 600 mm
SS6P-(*)(+)-HCC	Stainless steel 316	100 = 100 mm	750 = 750 mm 900 = 900 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: ALP-25300-HCC-S4 = cover clamp with stainless steel 304 hardware.

Hold down clamp

Designed to secure perforated cable tray to support system. Electro-galvanized hardware included as standard

Part No.	Material	Part No. variable (*)
ALP-(*)-HDC	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-HDC	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-HDC	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-HDC	Stainless steel 304	75 = 75 mm
SS6P-(*)-HDC	Stainless steel 316	100 = 100 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: ALP-25-HDC-S4 = 25 mm siderail hold down clamp with stainless steel 304 hardware.

Barrier strip

Barrier strips provide a method of separating cables in tray systems. Easily installed using supplied electro-galvanized hardware. Length 3 m.

Part No.	Material	Part No. variable (*)
ALP-(*)-SBH-3	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-SBH-3	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-SBH-3	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-SBH-3	Stainless steel 304	75 = 75 mm
SS6P-(*)-SBH-3	Stainless steel 316	100 = 100 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: ALP-25-SBH-3-S4 = 25 mm siderail barrier strip with stainless steel 304 hardware.

Closure end plate

Provides closure to any tray end. Electro-galvanized hardware included.

Part No.	Material	Part No. variable (*)	Part No. variable (+)
ALP-(*)(+)-CEP	Aluminium	Replace (*) with reference for siderail height:	Replace (+) with reference for tray width:
SPP-(*)(+)-CEP	Steel (pre-galvanized)		50 = 50 mm 75 = 75 mm
SHP-(*)(+)-CEP	Steel (hot dip galvanized)	25 = 25 mm	100 = 100 mm 150 = 150 mm
SS4P-(*)(+)-CEP	Stainless steel 304	50 = 50 mm	225 = 225 mm 300 = 300 mm
		75 = 75 mm	450 = 450 mm 600 = 600 mm
SS6P-(*)(+)-CEP	Stainless steel 316	100 = 100 mm	750 = 750 mm 900 = 900 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: ALP-25150-CEP-S4 = closure end plate with stainless steel 304 hardware.

Drop-out

Designed to provide a smooth radiused surface at any position on the tray bottom. Drop-outs are easily attached using electro-galvanized hardware provided. Nominal radius 100 mm

Part No.	Material	Part No. variable (*)
ALP-(*)-DO	Aluminium	Replace (*) with reference for tray width:
SPP-(*)-DO	Steel (pre-galvanized)	50 = 50 mm 75 = 75 mm 100 = 100 mm
SHP-(*)-DO	Steel (hot dip galvanized)	150 = 150 mm 225 = 225 mm 300 = 300 mm
SS4P-(*)-DO	Stainless steel 304	450 = 450 mm 600 = 600 mm 750 = 750 mm
SS6P-(*)-DO	Stainless steel 316	900 = 900 mm

Note: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No. Example: ALP-600-DO-S4 = drop-out with stainless steel 304 hardware.

Vertical tray hanger

For suspension of vertically hanging perforated tray. Requires threaded rod and hardware (order separately).

Part No.	Material	Part No. variable (*)
ALP-(*)-VTH	Aluminium	Replace (*) with reference for siderail height:
SPP-(*)-VTH	Steel (pre-galvanized)	25 = 25 mm
SHP-(*)-VTH	Steel (hot dip galvanized)	50 = 50 mm
SS4P-(*)-VTH	Stainless steel 304	75 = 75 mm
SS6P-(*)-VTH	Stainless steel 316	100 = 100 mm

Trapeze kit

Trapeze kits are designed to support various cable tray widths in a suspending installation. Kit includes strut (cut to length) and all appropriate hardware including hex nuts, screws and washers. Uses 1/2'' threaded rod (order separately).

Part No.	Description	Part No. variable (*)
WSP-(*)-TPK	Steel (pre-galvanized)	Replace **(*)** with reference for tray width:
WSH-(*)-TPK	Steel (hot dip galvanized)	50 = 50 mm 75 = 75 mm 100 = 100 mm 150 = 150 mm 225 = 225 mm 300 = 300 mm
WSS-(*)-TPK	Stainless steel 316*	450 = 450 mm 600 = 600 mm 750 = 750 mm 900 = 900 mm

* Stainless steel 304 available to special order

Tray hardware

Part No.	Description	Part No. variable (*)
(*)-M616-RHB	M6 x 16 round head bolt	Replace **(*)** with reference for material:
(*)-M616-HN	M6 hex. nut	SPP = Zinc plated steel
(*)-M6-FW	M6 flat washer	SS4P = Stainless steel 304
(*)-M616-HWK	Hardware kit inc. 8 nuts, 8 bolts & 8 flat washers	SS6P = Stainless steel 316
WSP-10-SCR	Self-drilling tapping screw	Material : zinc plated steel
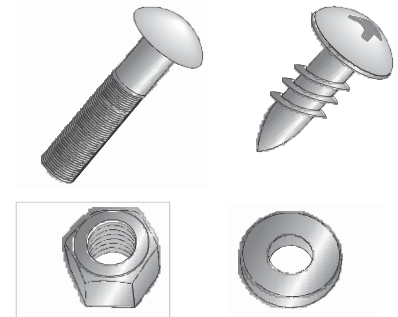
Threaded rod

Part No.	Size	Threads/inch	Design load	Part No. variable (*)
H104-1/4x3(*)	1/4"	20	68 kg (150 lb)	Replace **(*)** with reference for material type:
H104-3/8x3(*)	3/8"	16	277 kg (610 lb)	EG = Electro-galvanized
H104-1/2x3(*)	1/2"	13	513 kg (1130 lb)	HDG = Hot dip galvanized
H104-5/8x3(*)	5/8"	11	822 kg (1810 lb)	SS4 = Stainless steel 304
H104-3/4x3(*)	3/4"	10	1231 kg (2710 lb)	SS6 = Stainless steel 316
H104-7/8x3(*)	7/8"	9	1713 kg (3770 lb)	
H104-1x3(*)	1"	8	2254 kg (4960 lb)	

Threaded rod coupling

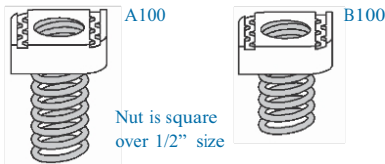| Part No.	Rod size	A	Part No. variable (*)
H119-1/4(*)	1/4"	7/8"	Replace **(*)** with reference for material type:
H119-5/16(*)	5/16"	7/8"	EG = Electro-galvanized
H119-3/8(*)	3/8"	1 1/8"	HDG = Hot dip galvanized
H119-1/2(*)	1/2"	1 1/4"	SS4 = Stainless steel 304
H119-5/8(*)	5/8"	2 1/8"	SS6 = Stainless steel 316
H119-3/4(*)	3/4"	2 1/4"	
H119-7/8(*)	7/8"	2 1/2"	
H119-1(*)	1"	2 1/4"	
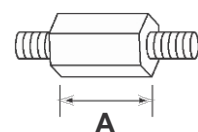
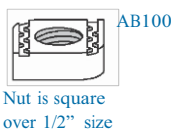## Superstrut® 2.5 mm (12 Ga.) & 2 mm (14 Ga.) channel - type A and type B
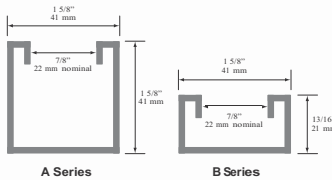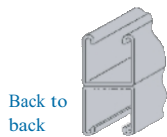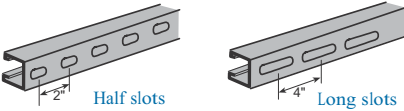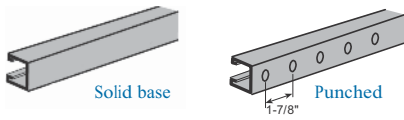
Metal framing channel available in 2.5 mm (12 Gauge) and 2 mm (14 Gauge) thickness. Aluminium, hot dip galvanized or stainless steel channels are recommended to support aluminium, steel or stainless steel cable tray. Offered in lengths of 10 ft, 20 ft, 3 m or 6 m.

Solid base

Punched
1-7/8"

Half slots
2"

Long slots
4"

Back to back

Part No. (12 Ga.)	Part No. (14 Ga.)	Description	Part No. variable (*)	Part No. variable (+)
A Series channel - 1 5/8" x 1 5/8" / 41 mm x 41 mm				
A1200-(*)-(+)M	A1400-(*)-(+)M	Solid base	Replace (*) with ref. for length: 10 = 10 ft 20 = 20 ft 3 = 3 m 6 = 6 m	Replace (+) with ref. for material/finish type: AL = Aluminium HDG = Hot dip galvanized PG = Pre-galvanized T304 = Stainless steel 304 T316 = Stainless steel 316
A1200-P-(*)-(+)M	A1400-P-(*)-(+)M	Punched		
A1200-HS-(*)-(+)M	A1400-HS-(*)-(+)M	Half slots		
A1200-S-(*)-(+)M	A1400-S-(*)-(+)M	Long slots		
A1202-(*)-(+)M	A1402-(*)-(+)M	Back to back		
B Series channel - 1 5/8" x 13/16" / 41 mm x 21 mm				
B1200-(*)-(+)M	B1400-(*)-(+)M	Solid base	Replace (*) with ref. for length: 10 = 10 ft 20 = 20 ft 3 = 3 m 6 = 6 m	Replace (+) with ref. for material/finish type: AL = Aluminium HDG = Hot dip galvanized PG = Pre-galvanized T304 = Stainless steel 304 T316 = Stainless steel 316
B1200-P-(*)-(+)M	B1400-P-(*)-(+)M	Punched		
B1200-HS-(*)-(+)M	B1400-HS-(*)-(+)M	Half slots		
B1200-S-(*)-(+)M	B1400-S-(*)-(+)M	Long slots		
B1202-(*)-(+)M	B1402-(*)-(+)M	Back to back		

1 5/8"
41 mm
7/8"
22 mm nominal
1 5/8"
41 mm

A Series

1 5/8"
41 mm
7/8"
22 mm nominal
13/16"
21 mm

B Series

Channel nuts

A100

B100

Nut is square over 1/2" size

AB100

Nut is square over 1/2" size

Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

A100 is designed for A Series channel, and B100 is for B Series. A100 and B100 available in imperial sizes ranging from 1/4" to 7/8", and metric sizes from M6 to M22. AB100 available in imperial sizes ranging from 1/4" to 3/4", and metric sizes from M6 to M20.

Part No.	Description	Part No. variable (*)	Part No. variable (+)
A100-(*)-(+)	Spring nut	Replace (*) with reference for thread size:	Replace (+) with ref. for material/finish type:
B100-(*)-(+)	Spring nut	1/4 = 1/4"/M6 5/16 = 5/16"/M8 3/8 = 3/8"/M10 1/2 = 1/2"/M12 5/8 = 5/8"/M16 3/4 = 3/4"/M20 7/8 = 7/8"/M22	EG = Electro-galvanized HDG = Hot dip galvanized SS4 = Stainless steel 304 SS6 = Stainless steel 316
AB100-(*)-(+)	Springless nut		
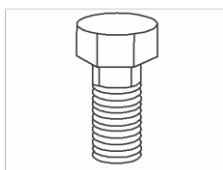
Hex head cap screw

Standard finish: electro-galvanized. Stainless steel channel nuts are recommended for aluminium channel - change suffix to SS4 or SS6 as required.

Part No.	Description	Part No. variable (*)	Part No. variable (+)
E142-(*)-(+)	Hex head cap screw	Replace (*) with reference for size: 1/4x100 = 1/4" x 1" 1/4x150 = 1/4" x 1 1/2" 3/8x100 = 3/8" x 1" 3/8x150 = 3/8" x 1 1/2" 1/2x100 = 1/2" x 1" 1/2x150 = 1/2" x 1 1/2"	Replace (+) with reference for material/finish type: EG = Electro-galvanized HDG = Hot dip galvanized SS4 = Stainless steel 304 SS6 = Stainless steel 316

Cap screw available in metric sizes to special order - contact AIFZE.

Superstrut® fittings and brackets

Fittings and brackets are available in four materials. To create specific part numbers, replace the part number variable **(*)** with the relevant material code shown right:
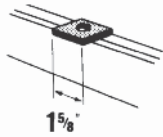
Note: Hot dip galvanized HDG or stainless steel fittings (SS6 or SS4) are recommended to assemble aluminum channel.

EG	=	Electro-galvanized
HDG	=	Hot dip galvanized
SS4	=	Stainless steel 304
SS6	=	Stainless steel 316

Standard dimensions: **Hole spacing:** 13/16" from end, 1 7/8" centres   **Hole size:** 9/16" diameter, fitting width 1 5/8"

Part No.	Hole size
AB241-1/4(*)	1/4"
AB241-3/8(*)	3/8"
AB241-1/2(*)	1/2"
AB241-3/4(*)	3/4"
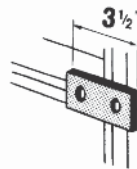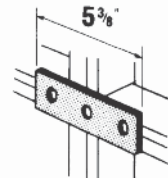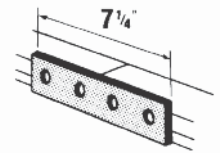
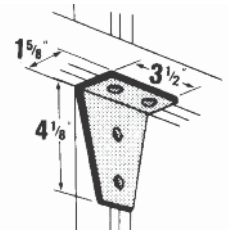AB206(*)   AB207(*)   X207(*)
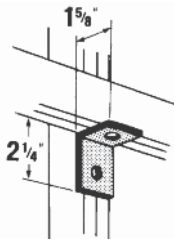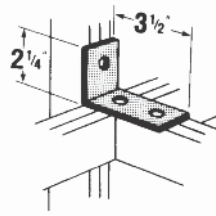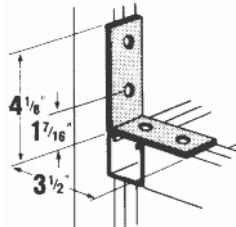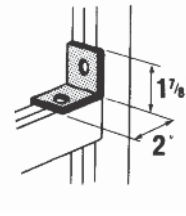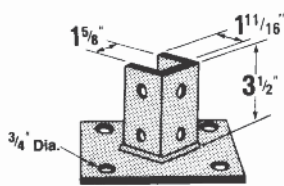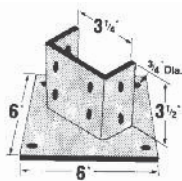
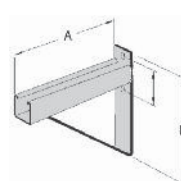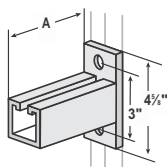AB201(*)   AB204(*)   AB205(*)   AB202(*)   AB203(*)
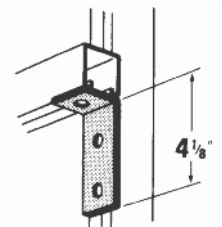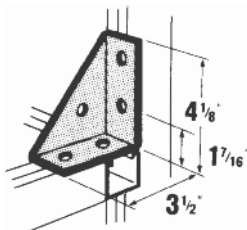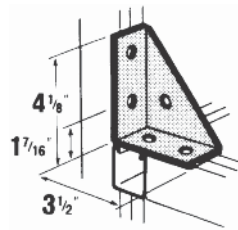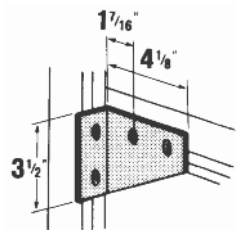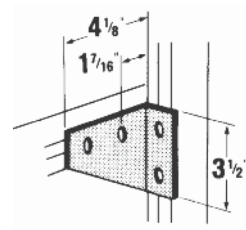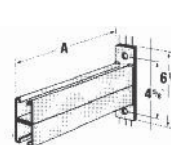
AB213(*)   AB214(*)   AB254-L(*)   AB254-R(*)   X289(*)

AP232(*)   AP235H(*)

Part No.	A	B	Load
S249-8(*)	8 1/2"	8"	681 kg (1500 lb)
S249-14(*)	14 1/2"	9"	681 kg (1500 lb)
S249-20(*)	20 1/2"	9"	681 kg (1500 lb)
S249-26(*)	26 1/2"	11 1/2"	681 kg (1500 lb)
S249-32(*)	32 1/2"	11 1/2"	681 kg (1500 lb)
S249-38(*)	38 1/2"	11 1/2"	681 kg (1500 lb)

Part No.	A	Load
S250-6(*)	6"	681 kg (1500 lb)
S250-12(*)	12"	363 kg (800 lb)
S250-18(*)	18"	250 kg (550 lb)
S250-24(*)	24"	181 kg (400 lb)

Part No.	A	Load
S251-14(*)	14 1/2"	750 kg (1650 lb)
S251-20(*)	20 1/2"	363 kg (800 lb)
S251-26(*)	26 1/2"	295 kg (650 lb)
S251-32(*)	32 1/2"	227 kg (500 lb)
S251-38(*)	38 1/2"	227 kg (500 lb)

Note: may be installed inverted with no change in load ratings. Strut section made from half slot channel.

Superstrut® channel brackets are available in other lengths on request. Contact AlFZE for further information.

Cable ladder

Available in aluminium, or steel in a range of finishes, AIFZE cable ladder provides the optimum solution for supporting large quantities of heavy duty cable, across a wide variety of commercial and industrial installations.

AIFZE cable ladder is manufactured in three styles - ladder, ventilated or solid trough - for maximum versatility and robust, reliable performance on-site.

Channel tray

AIFZE channel tray systems provide the ideal light duty solution to cable support.

Suitable for supporting a wide range of telecoms, data, signal, computer and light power cables, channel tray is available in solid or ventilated straight sections together with a full suite of fittings & accessories, to meet the demands of even the most complex installations.

Non-metallic cable tray

Non-metallic cable tray is tested and proven in the harsh environment of the offshore oil & gas industry, where exposure to adverse and corrosive conditions demands a solution with unique material properties.

Non-metallic cable tray is lightweight, neither rusts nor requires painting, and provides the load capacity of steel.

ExpressTray™ wire frame cable tray

The ExpressTray™ cable management system is a complete solution for managing light power, voice & data cables in commercial and industrial facilities, that delivers simplicity, efficiency, versatility and performance.

Requiring no corner, cross or bend elements, any layout can be achieved simply with a length of tray and a pair of wire cutters.

E-Klips spring steel fasteners

E-Klips spring steel fasteners offer a quick, easy and reliable method of fixing services to steelwork without the need for bracket making, drilling holes or use of nuts and bolts.

E-Klips fasteners are suitable for almost every application, including cables, cable tray, ducting, pipework, trunking, light fittings, conduit and suspended ceilings

Large radius cable tray

Custom-built cable support for petrochemical project tanks or towers.

This cable tray system is usually installed around the outer perimeter of the catwalks and stairs which are mounted on the tank or vessel.

Designed to special order to meet specific project needs.

Cable ties and fasteners

AIFZE offers a broad range of cable ties designed to make the task of fastening, bundling, clamping and managing wires easier for all types of commercial, industrial and OEM applications.

Strength and reliability are hallmarks of the AFIZE® cable tie range, which are available in a variety of styles under the core brands: Ty-Rap®, Ty-Met®, Ty-Fast®, Ty-Grip® and Deltec® .

Terminals and connectors

Sta-Kon®, Shield-Kon®, Color-Keyed® and Dragon Tooth® connectors offer secure, reliable, and highly conductive termination of shielded cables, power cables and magnet wire.

All AIFZE connectors are complemented by manual and hydraulic crimping tools to enable fast, high quality crimps with the minimum of effort.

Flexible conduit systems

AIFZE flexible conduit provides excellent protection for electrical cables against aggressive/corrosive environments, moisture and liquids, pressure loads, oil, dust, chemical pollutants and extreme temperatures.

Flexible conduit is available under the AIFZE core brands: Adaptaflex®, Kopex, Kopex-Ex, PMAFIX, PMAFLEX, Shureseal® and Shureflex®.

Heat shrink technologies

Shrink-Kon® heavy, medium and thin wall heat shrink products protect cables and connectors against moisture, corrosion and abrasion.

Additionally providing mechanical and electrical insulation, Shrink-Kon® products range from highly flexible to semi-rigid for a multitude of applications in industry and OEM.
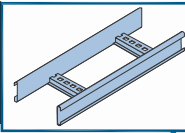
Imperial to metric conversion chart

Perforated cable tray accessory and Superstrut® measurements in this publication where necessary are shown as imperial sizes. Please use the following chart for conversions of imperial measurements to metric as required when assessing cable tray projects.
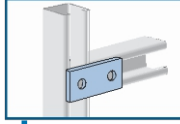
inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
1/4"	6.35 mm	1"	25.4 mm	2"	50.8 mm	6"	152.4 mm	18"	457.2 mm
5/16"	7.94 mm	1 1/8"	28.58 mm	2 1/8"	53.98 mm	7 1/4"	184.15 mm	20 1/2"	520.7 mm
3/8"	9.53 mm	1 1/4"	31.75 mm	2 1/4"	57.15 mm	8"	203.8 mm	24"	609.6 mm
1/2"	12.7 mm	1 7/16"	36.51 mm	2 1/2"	63.5 mm	8 1/2"	215.9 mm	26 1/2"	673.1 mm
5/8"	15.9 mm	1 1/2"	38.1 mm	3 1/4"	82.55 mm	9"	228.6 mm	32 1/2"	825.5 mm
3/4"	19.05 mm	1 5/8"	41.28 mm	3 1/2"	88.9 mm	11 1/2"	292.1 mm	38 1/2"	977.9 mm
13/16"	20.64 mm	1 11/16"	42.86 mm	4 1/8"	104.78 mm	12"	304.8 mm		
7/8"	22.23 mm	1 7/8"	47.63 mm	5 3/8"	136.53 mm	14 1/2"	368.3 mm		

AIFZE

- CABLE LADDER

- CABLE TRAY

- ACROFIL BASKET

- UNISTRUT SYSTEM

- KWIKSTRUT SYSTEM

- PIPE/CABLE CLAMPS

- PANASONIC " EMT" Conduit -JAPAN
- SSP RIGID STEEL CONDUIT (RSC) -KSA
- WHEATLAND "EMT" Conduit -USA
- PANASONIC " IMC " Conduit -JAPAN
- ALEX "EMT" Conduit – China
- EMT Conduit Fittings

AIFZE
Family of Innovative Products

- CABLE LADDER
- UNISTRUT SYSTEM
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- ACROFIL BASKET
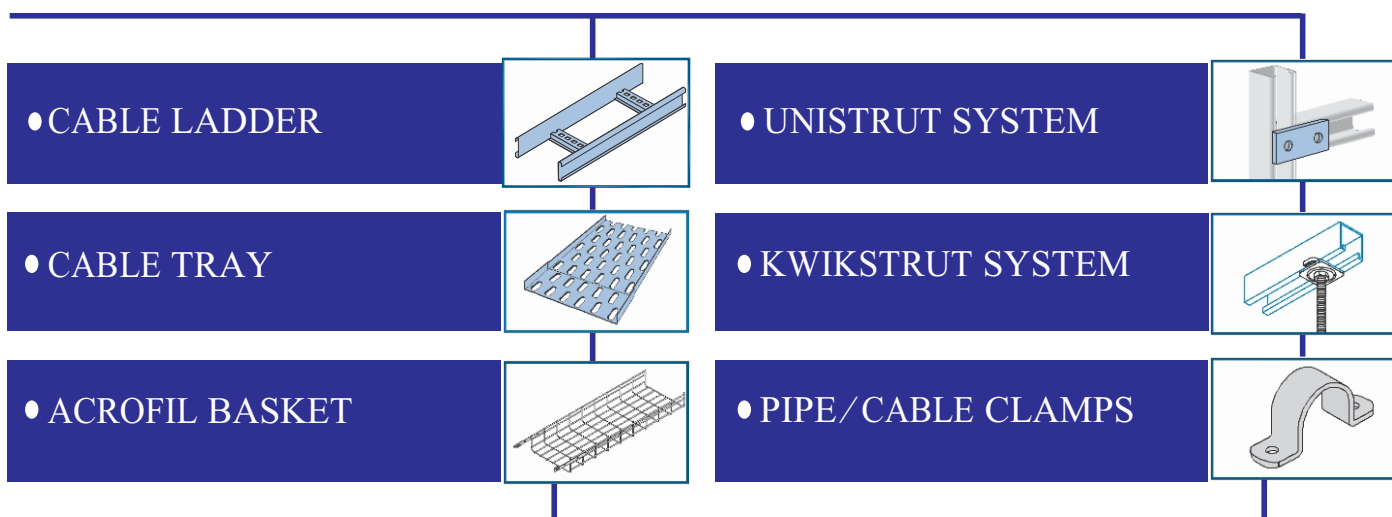- PIPE / CABLE CLAMPS
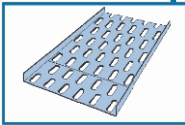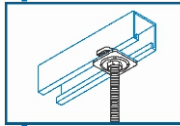
Electrical & Mechanical Solutions

•AIFZE Metal Framing •AIFZE Cable Trays and Cable Ladders