

CATALOGUE

ELECTRICAL & MECHANICAL SUPPORT SYSTEMS

Metal Framing • Pipe Supports • Fittings, Nuts & Hardware • Cable Trays and Cable Ladders

UNISTRUT®

A PART OF  **atkore**
INTERNATIONAL



UNI-TRAY®

The UNI-TRAY® systems offers the contractor the ability to site manufacture all required junctions, thereby reducing the installation cost over traditional cable trays and ladders.

UNI-TRAY® is used widely as an architectural cable support and the comprehensive range of light, medium and heavy duty products ensure that the UNI-TRAY® system is an aesthetically pleasing and cost effective cable support medium.

ROLLED EDGE CABLE TRAY

A simple and cost effective support system for communications and power cable distribution. Slots running down the length of the trays enable easy installation of cable ties. The joggled end for joining lengths and accessories eliminates the requirements for separate joiners.

ACROFIL® WIRE BASKETS

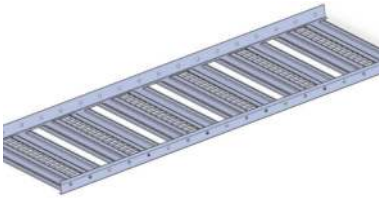
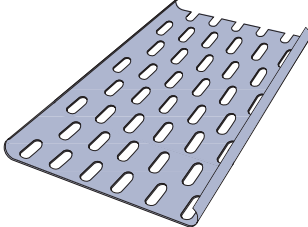
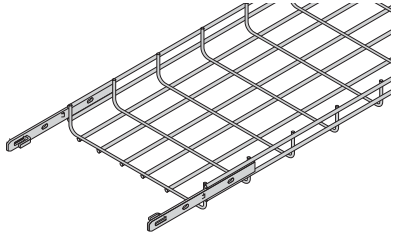
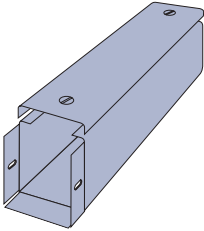
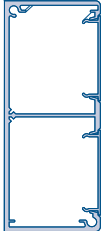
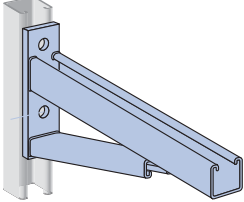
Ideal for a variety of applications, our wire baskets feature a self-splicing system designed to be simple to assemble and proven to be 80% faster in mounting time than standard splicing – eliminating the need for nut and bolt connections.

Light and quick to assemble, easy to handle, our wire basket helps simplify application installation.

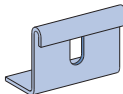
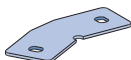
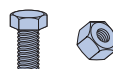
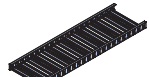
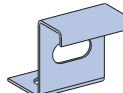
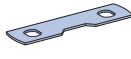
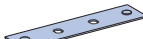
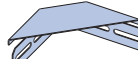
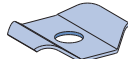
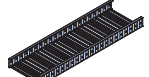
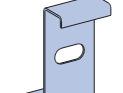
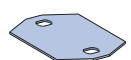
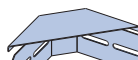
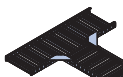
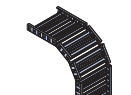
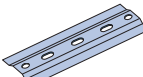
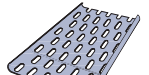
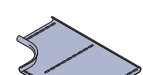
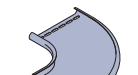
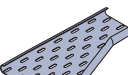
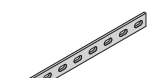
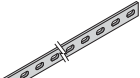
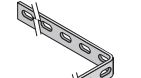
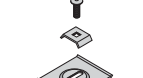
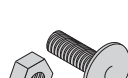
CABLE TRUNKING STEEL

The cable duct system is designed to be quick and simple to assemble, providing real time saving as well as remaining a reliable product throughout its natural life cycle.

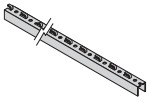
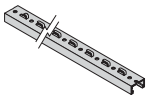
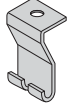
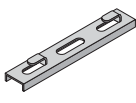
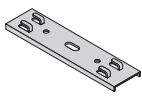
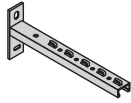
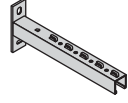
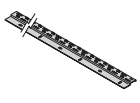
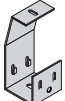
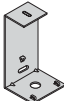
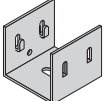
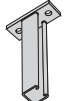
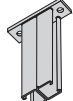
In-Built joining splices allow you to securely connect cable duct lengths without the need to have separate splice plates, giving a neat external finish.

UNI-TRAY®	ROLLED EDGE	ACROFIL®
		
PG. 77	PG. 84	PG. 85
CABLE TRUNKING STEEL	SKIRTING DUCTS	SUPPORT BRACKETS
		
PG. 101	PG. 105	PG. 107

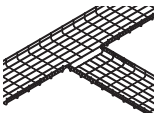
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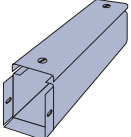
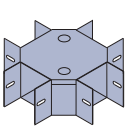
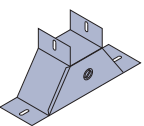
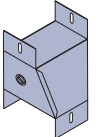
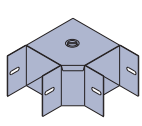
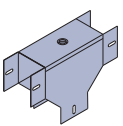
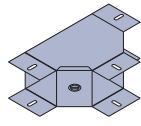
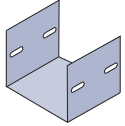
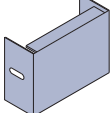
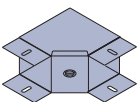
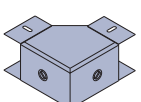
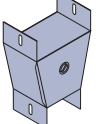
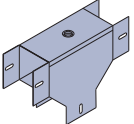
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CABLE TRUNKING STEEL

							
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END CAP PG. 103	90° LID INSIDE PG. 103	90° LID OUTSIDE PG. 103	REDUCER PG. 104	TEE HORIZONTAL PG. 104			

UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

ACROFIL® OVERVIEW

ACROFIL® is a welded wire mesh cable management system produced from high strength steel wires. ACROFIL® is produced by first welding a net, forming the Strut, and then finishing. The 50mmX100mm wire spacing permits continuous airflow to help prevent heat build-up. In addition this unique open design prevents the build-up of dust, contaminants and bacterial proliferation.

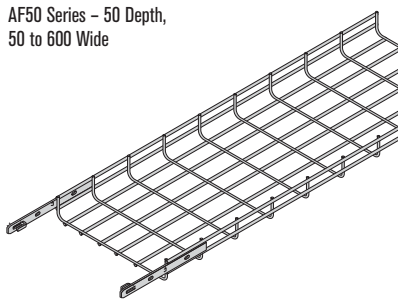
ACROFIL® is produced in standard 3m lengths and is supplied in 2 standard depths: 50 and 100mm.

ACROFIL® is offered in nine different widths:

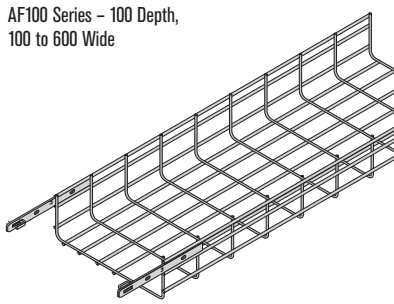
50 mm, 100mm, 150mm, 200mm, 300mm, 400mm, 450mm, 500mm, 600mm.

Special sizes are available to meet your unique requirements.

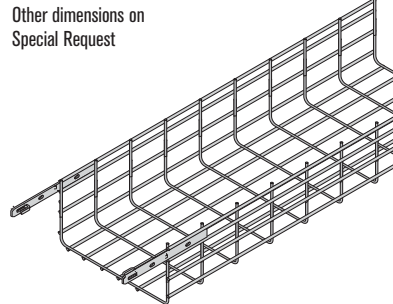
AF50 Series – 50 Depth,
50 to 600 Wide



AF100 Series – 100 Depth,
100 to 600 Wide



Other dimensions on
Special Request



ZINC PLATED (ZP) – (AS 1789)

Strut, fittings and components are electroplated generally in accordance with AS 1789. Fasteners are electroplated generally in accordance with AS 1897.

HEAVY DUTY GALVANISED (HG) – (AS/NZS 4680)

Coatings are applied generally in accordance with AS/NZS 4680. The thickness of the coating is dependent on the material thickness of the component being galvanised. It should be noted that due to the galvanising process, the thickness of the coating will vary over the surface and should be taken into account during component assembly. It may be necessary to remove excess build-up prior to use.

316 TYPE STAINLESS STEEL (SS)

Corrosive resistant stainless steel with no additional surface treatment. This material option provides the best corrosion resistance available. Stainless steel is used primarily in marine environments or food processing facilities.

OTHER FINISHES - POWDER COATED (PC), PRE GALVANISED (PG), PLAIN (PL) AND GRADE 304 STAINLESS STEEL (SS304).

When specific applications require other commercially available finishes, they can be supplied according to specification.

HOW TO ORDER

Part numbers shown in the catalogue are for the standard zinc plated finish. For special order finishes, add the finish code as a suffix.

EXAMPLE

AF50-300 is zinc plated

AF50-300-SS is stainless steel type 316

MASSES AND DIMENSIONS

Masses given for all material are approximate shipping weights. All dimensions subject to commercial tolerance variations.

UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

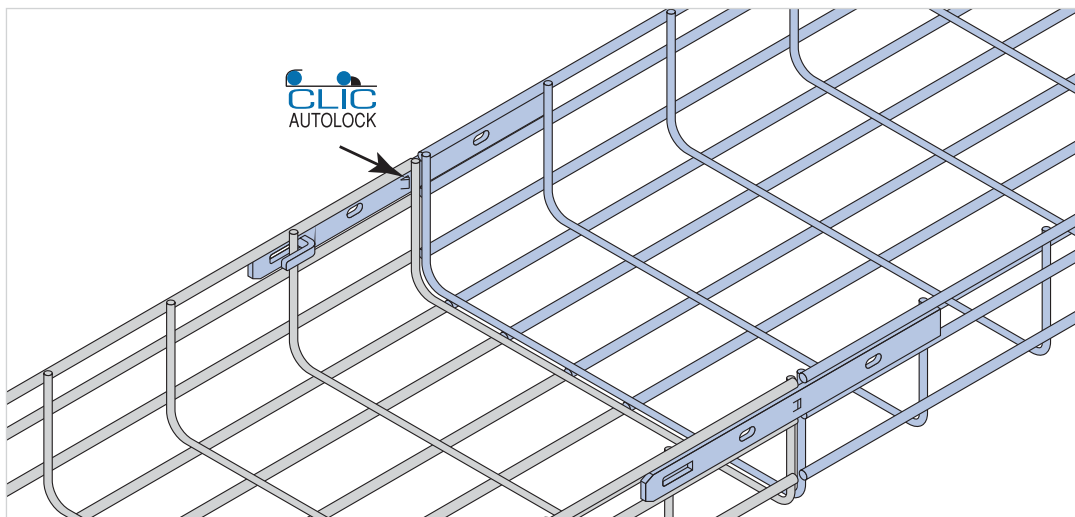
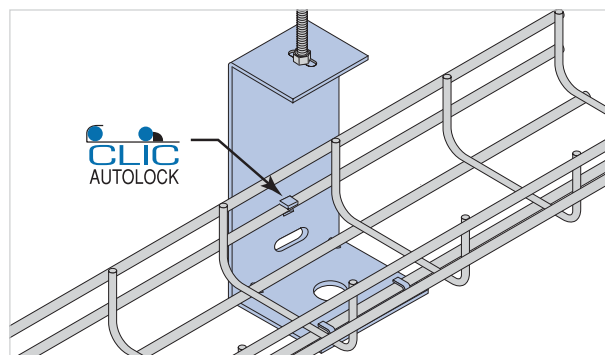
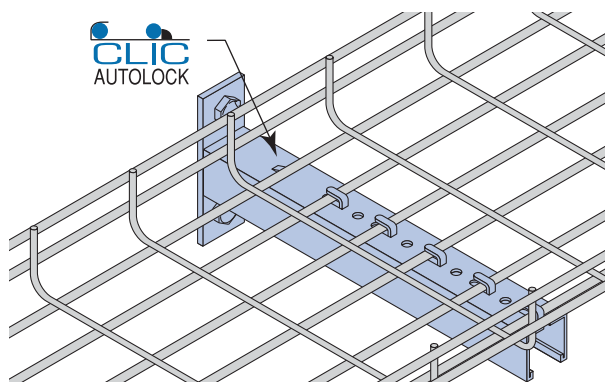
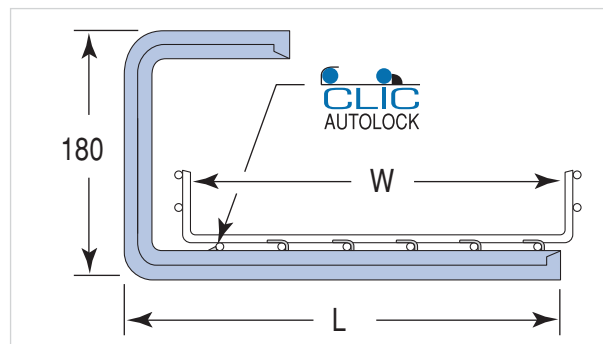
ACROFIL® SYSTEM

UNISTRUT® The premier name in electrical and metal infrastructure solutions has been designing and manufacturing products in Australia for over 50 years delivering superior performance in design, engineering excellence, distribution, and customer service.

As part of global company Atkore, Unistrut® is able to provide the Acrofil® range of wire-mesh cable tray, which features unique Autolock system and welded splices. Autolock and welded splices make connecting tray fast and simple and in turn eliminate the need for nut and bolt connection.

The addition of Acrofil® to our range reinforces Unistrut® New Zealand's commitment to being the one stop supplier for all your cable management solutions.

Visit www.unistrut.co.nz

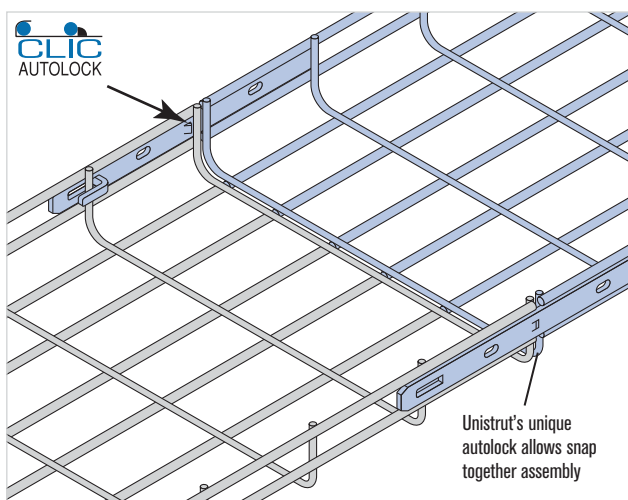


UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

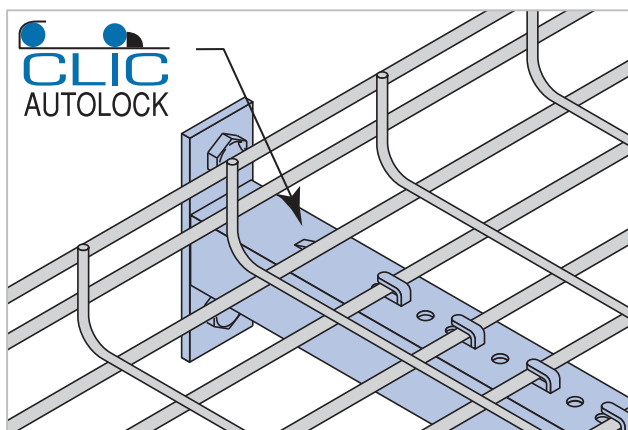
ACROFIL® SYSTEM

SELF-SPLICING STRAIGHT LENGTHS

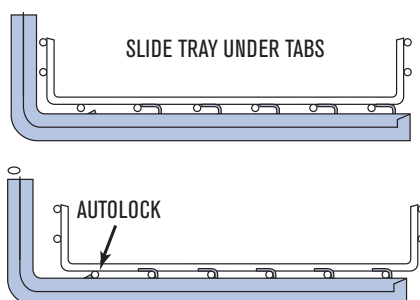
ACROFIL®'s exclusive autolock splicing system makes connecting ACROFIL® fast and simple. The Autolock, or self splicing bars which come pre-installed on ACROFIL® systems, eliminates the need for a typical nut and bolt type connection.



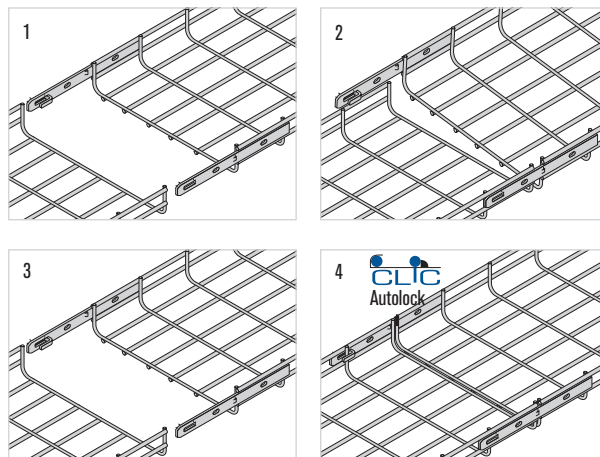
ACCESSORY ASSEMBLY



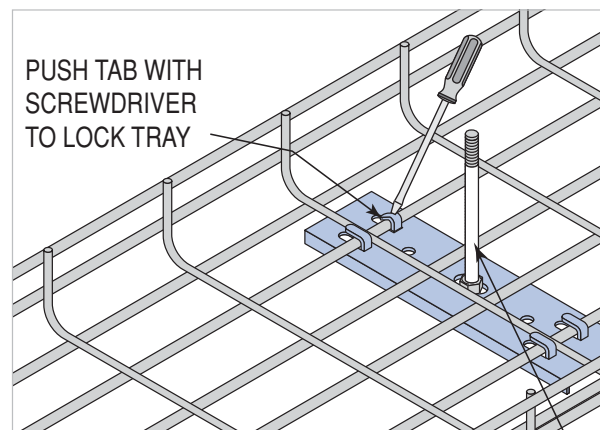
Many of the ACROFIL® wire basket accessories feature the unique autolock. Just slide the tray under the tabs and then push down to engage the autolock. No tools, bending, or attachments are required for a secure connection.



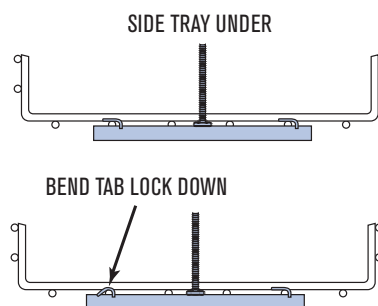
ACROFIL® ASSEMBLY - AF50, AF100, & AF150



- Step 1 Align the trays as shown.
- Step 2 While raising the rear edge of the male connection, slide the tray forward, but do not engage the locking clip.
- Step 3 Push the rear locking clip over the back edge of the tray.
- Step 4 Slide the tray forward to engage both front and rear locking clips.



For accessories which use the tab lock, the tray is secured by using a screw driver to gently bend one of the tabs down over the tray.

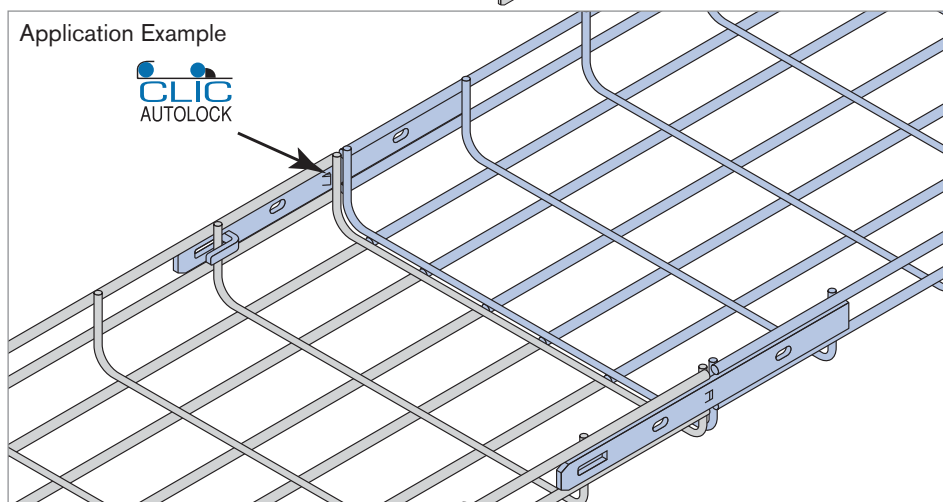
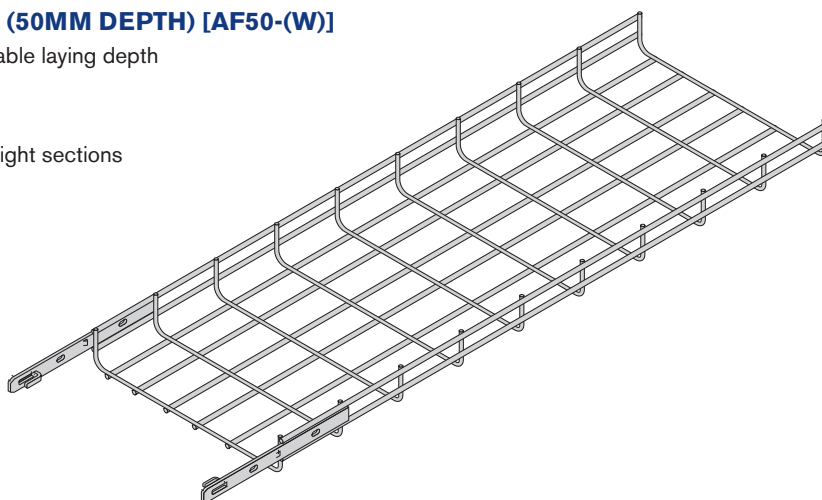


UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

ACROFIL® SYSTEM

DOUBLE ROD REINFORCED TRAY (50MM DEPTH) [AF50-(W)]

- Double rod reinforced tray has a 50mm cable laying depth
- Standard length of tray is 3m
- Standard finish is zinc plated
- No hardware is necessary to connect straight sections



Part Description		Width (Nominal)	Depth (mm)	Weight (kg) (piece)	Loading (kg/m)		
					1.5m Span	2.0m Span	2.5m Span
	AF50-50	50	50	1.9	25.1	17.8	13.1
	AF50-100	100	50	2.6	34.2	23.3	17.2
	AF50-150	150	50	3.6	56.3	36.6	27.8
	AF50-200	200	50	4.2	58.7	39.2	29.8
	AF50-300	300	50	5.5	64.0	39.3	29.0
	AF50-400	400	50	8.1	89.4	49.4	36.5
	AF50-450	450	50	8.8	97.5	53.9	39.8
	AF50-500	500	50	9.5	105.4	63.0	46.5
	AF50-600	600	50	10.8	114.9	68.7	50.7

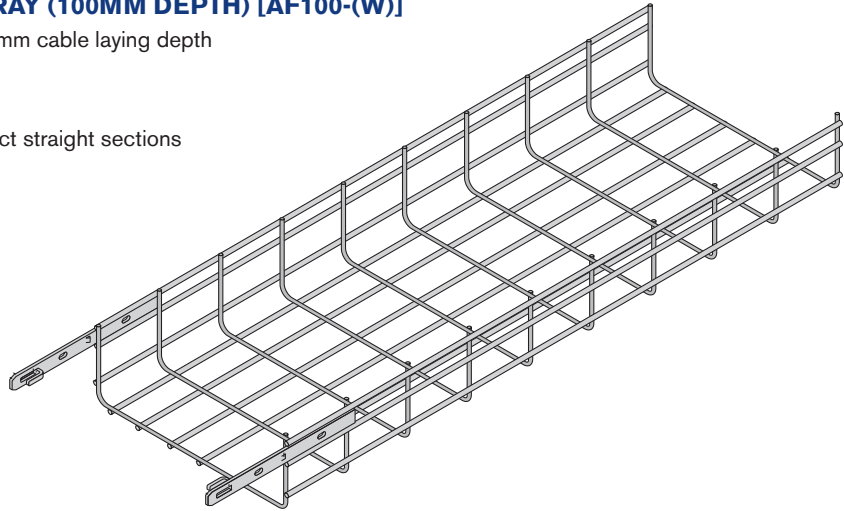
Load Values are determined by IEC61537 testing. Copies of load tests available upon request.
Safety Factor 1.7

UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

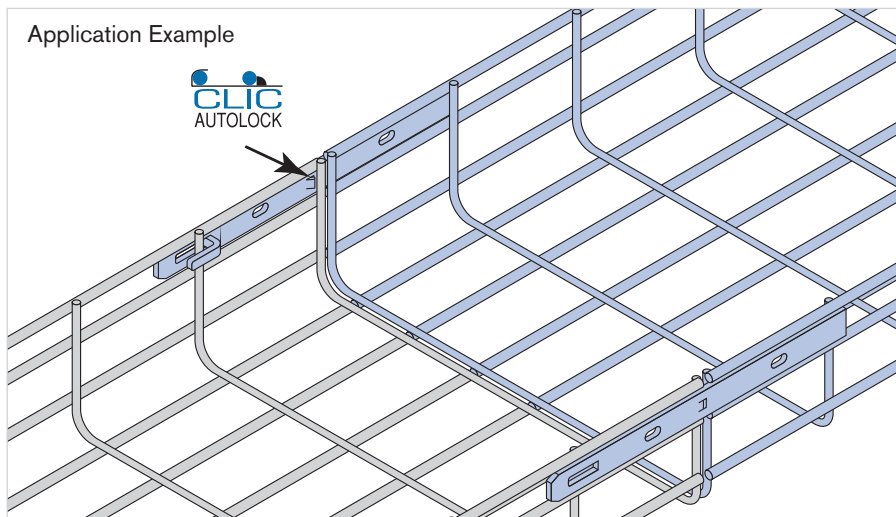
ACROFIL® SYSTEM

TRIPLE ROD REINFORCED TRAY (100MM DEPTH) [AF100-(W)]

- Triple rod reinforced tray has a 100mm cable laying depth
- Standard length of tray is 3m
- Standard finish is zinc plated
- No hardware is necessary to connect straight sections



Application Example



Part Description		Width (Nominal)	Depth (mm)	Weight (kg) (piece)	Loading (kg/m)		
					2.0m Span	2.5m Span	3.0m Span
	AF100-100	100	100	4.2	69.6	54.2	41.2
	AF100-200	200	100	5.5	78.4	58.4	46.4
	AF100-300	300	100	8.1	109.9	85.0	67.4
	AF100-400	400	100	9.5	129.3	96.1	76.3
	AF100-500	500	100	10.8	151.0	119.7	95.0
	AF100-600	600	100	17.6	164.6	130.5	103.6

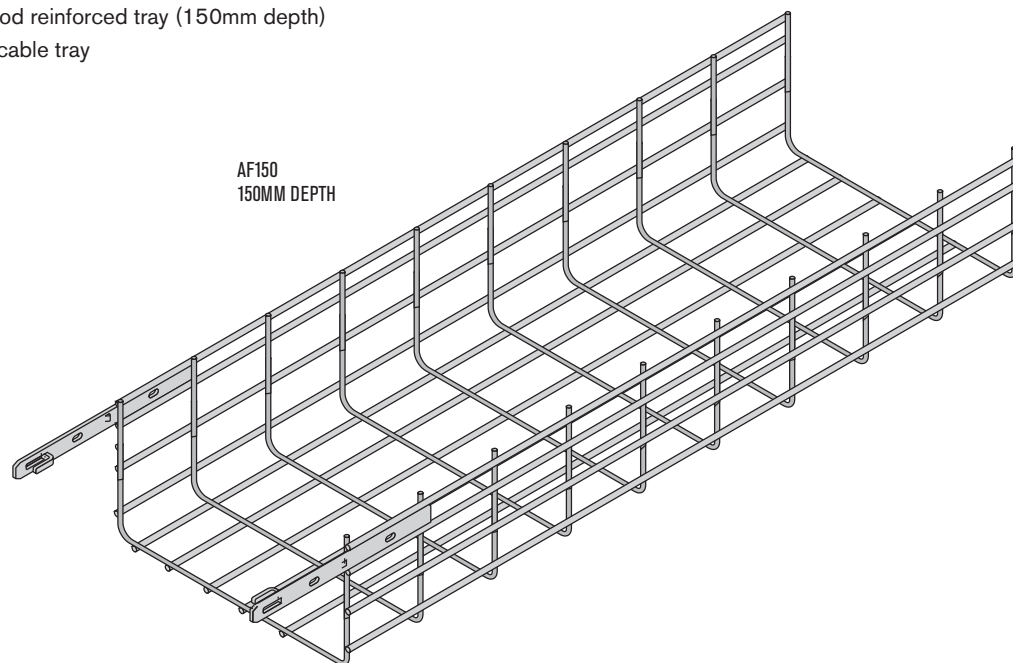
Load Values are determined by IEC61537 testing. Copies of load tests available upon request.
Safety Factor 1.7

UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

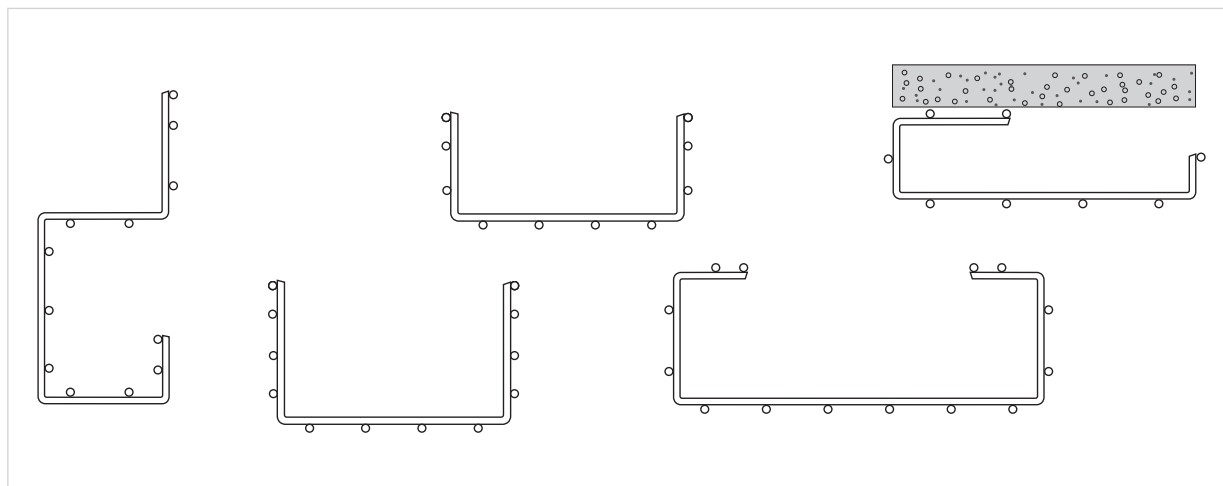
ACROFIL® SYSTEM

OTHER PRODUCTS AVAILABLE AT SPECIAL REQUEST

- Quadruple rod reinforced tray (150mm depth)
- Heavy duty cable tray



CUSTOM MADE TRAY EXAMPLES



UNISTRUT® ACROFIL® – BAR CONNECTORS

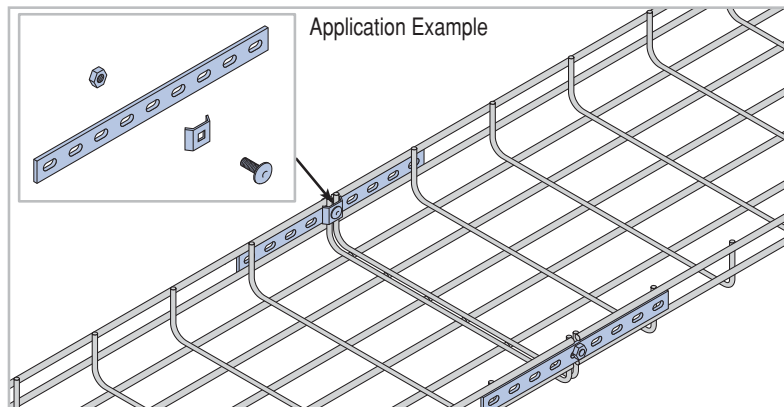
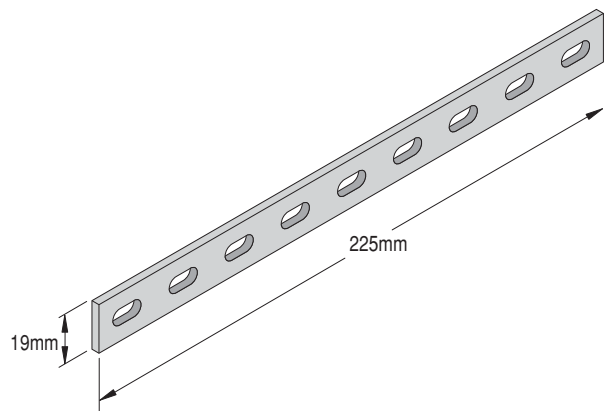
AF-SPLICE

Weight: 0.13kg/each

- Splice bar connector is 19mm x 225mm long
- Standard finish is zinc plated
- Connect using AF-KITCH3 (sold separately)
- Bend 90° for use as an angle connector

NOTES:

1. Always place nut on outside of tray
2. For use with AF50, AF100 & AF150 tray
3. The splice connector is used to connect remnant sections of tray cut from standard lengths and to field fabricate fittings



BEND & INTERSECTION BARS

AF-TBAR1100

Weight: 0.65kg/each

- AF-TBAR1100 connector is 19mm x 1100mm long
- Connect using AF-KITCH3 (sold separately)
- Bend 90° for use as an angle connector

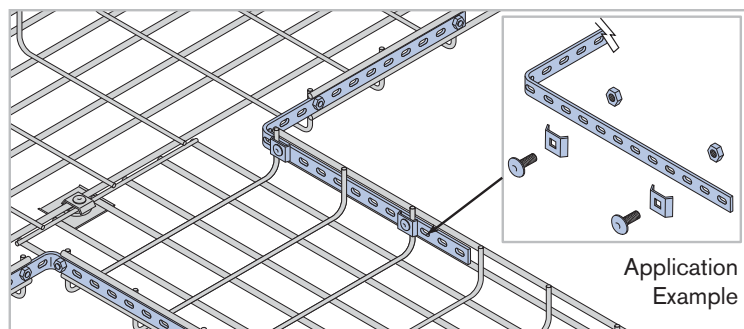
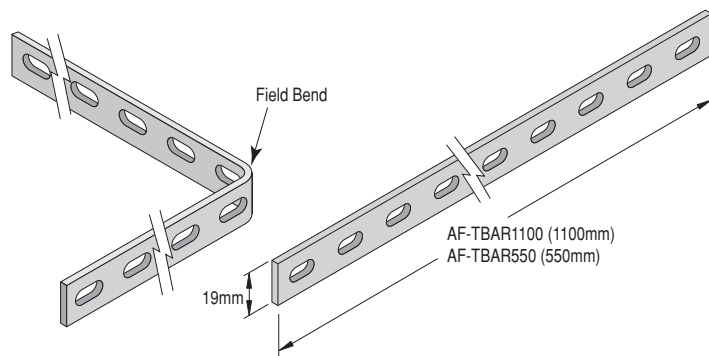
AF-TBAR550

Weight: 0.32kg/each

- AF-TBAR550 connector is 19mm x 550mm long
- Connect using AF-KITCH3 (sold separately)

NOTES:

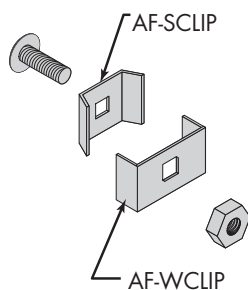
1. Always place nut on outside of tray
2. For use with AF50, AF100 & AF150 tray
3. Used for tees that require a heavier support
4. These bars are normally cut to appropriate length



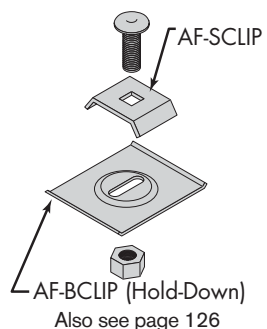
UNISTRUT® ACROFIL® – CONNECTOR HARDWARE

CONNECTOR HARDWARE OVERVIEW

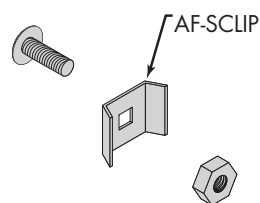
AF-KITCH1



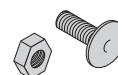
AF-KITCH2



AF-KITCH3



AF-EG-CBN



Part Kit	Weight (kg)	NO./ PKG
AF-KITCH1	0.32	10
AF-KITCH2	0.53	10
AF-KITCH3	0.20	10
AF-EG-CBN	0.09	10

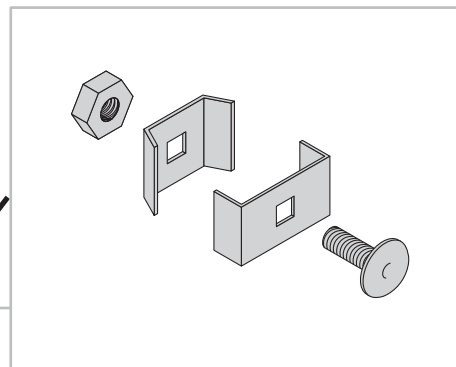
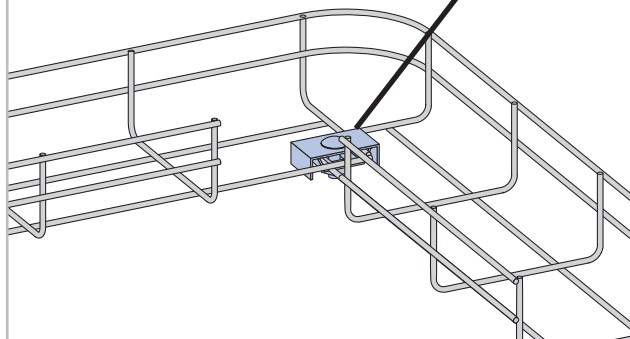
Single Part	Weight (kg)	NO./ PKG
AF-SCLIP	0.20	10
AF-WCLIP	0.31	10
AF-BCLIP	0.92	10

CONNECTOR KIT [AF-KITCH1]

- Standard bar connector is 30mm x 18mm
- Standard finish is zinc plated
- Sold in packs of 10
(AF-EG-CBN connector hardware included)

NOTE: Always place nut on outside of tray

Application Example



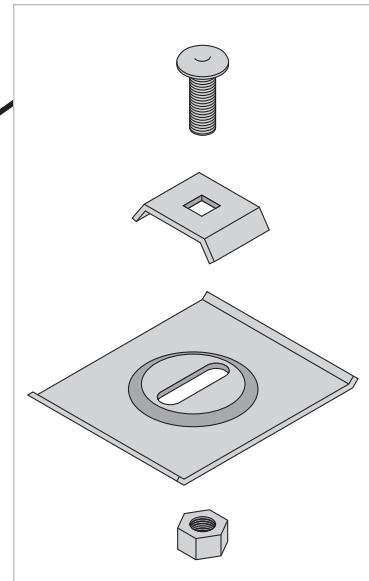
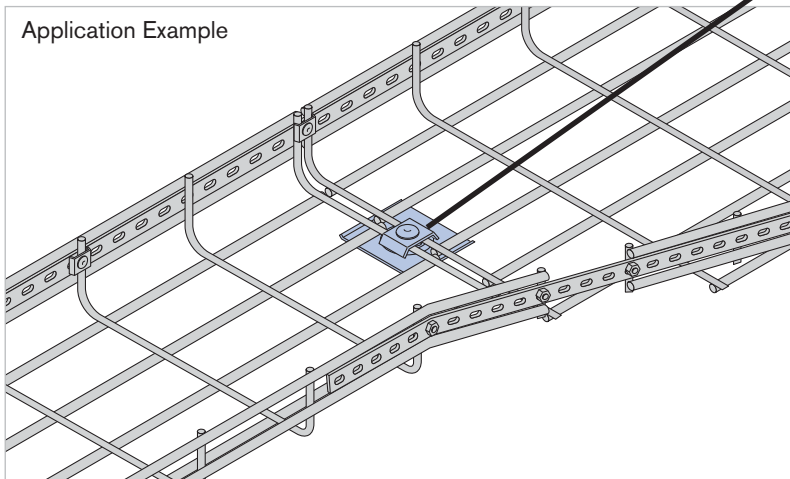
UNISTRUT® ACROFIL® – CONNECTOR HARDWARE KITS

CONNECTOR KIT [AF-KITCH2]

- Bottom connector is 50mm x 60mm
- Standard finish is zinc plated
- Sold in packs of 10
(AF-EG-CBN connector hardware included)

NOTE: Always place nut on outside of tray

Application Example

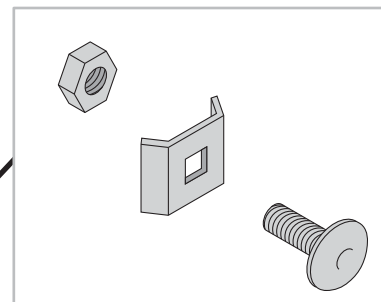
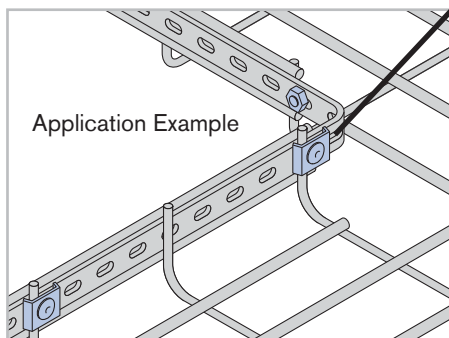


CONNECTOR KIT [AF-KITCH3]

- Universal connector is 18mm x 24mm
- Standard finish is zinc plated
- Sold in packs of 10
(AF-EG-CBN connector hardware included)

NOTE: Always place nut on outside of tray

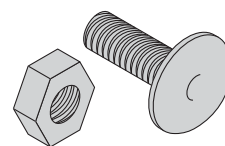
Application Example



CONNECTOR HARDWARE [AF-EG-CBN]

- M6 x 20 Carriage bolt
- M6 Hex nut
- Standard finish is zinc plated
- Sold in packs of 10 each

NOTE: Always place nut on outside of tray

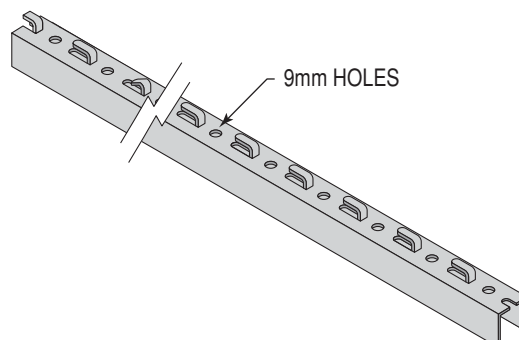


UNISTRUT® ACROFIL® – SUPPORT BRACKETS

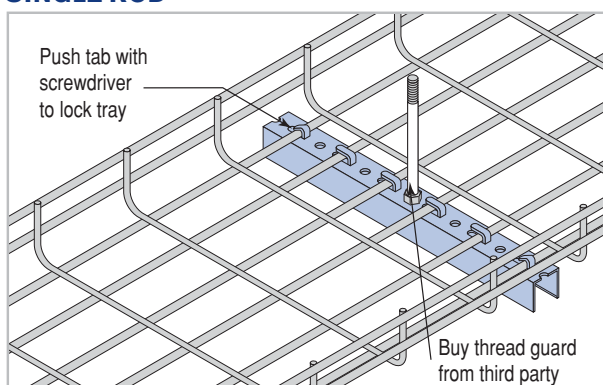
U SUPPORT BRACKET [AF-USB-3M]

Weight: 3.1kg/each

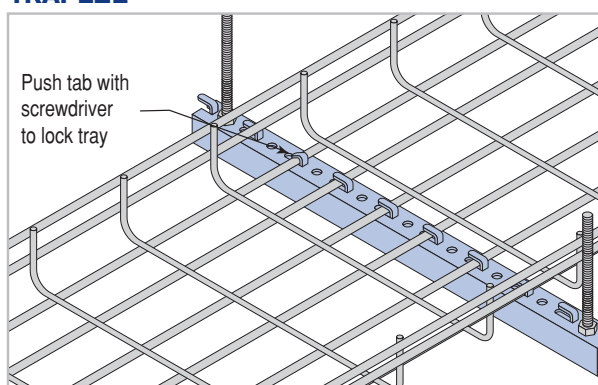
- U support bracket 24mm x 24mm channel
- Standard finish is zinc plated
- Support is 3m long, customer cuts to size as needed
- Cut lengths 150mm wider than tray width for trapeze
Cut lengths 25mm shorter than tray width for single rod support
- Unique grip system requires only a push of a screwdriver to fasten the tray to the supports



SINGLE ROD



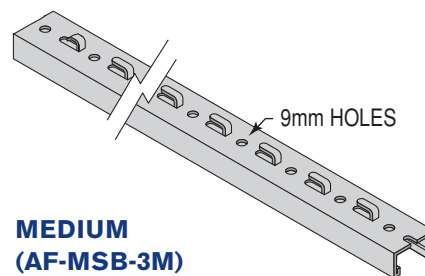
TRAPEZE



SUPPORT BRACKET MEDIUM (AF-MSB-3M)

Weight: 3.1kg/each

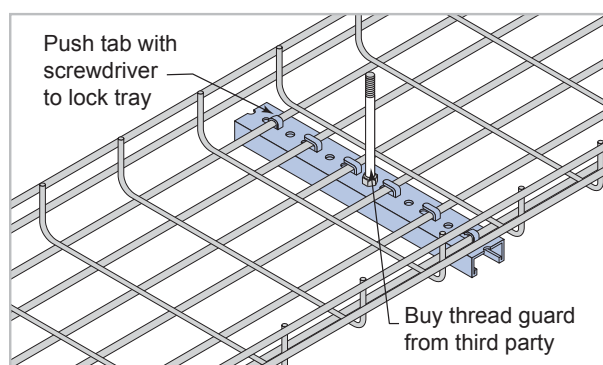
- Heavy support bracket is 41mm x 41mm strut, Medium support bracket is 41mm x 21mm strut
- Standard finish is zinc plated
- Support is 3m long, customer cuts to size as needed
- Cut lengths 150mm wider than tray width for trapeze
Cut lengths 25mm shorter than tray width for single rod support
- Unique grip system requires only a push of a screwdriver to fasten the tray to the supports



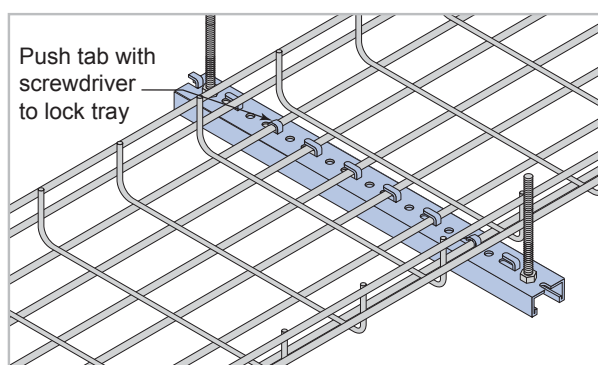
MEDIUM (AF-MSB-3M)

Weight: 5.4 kg/each

SINGLE ROD



TRAPEZE

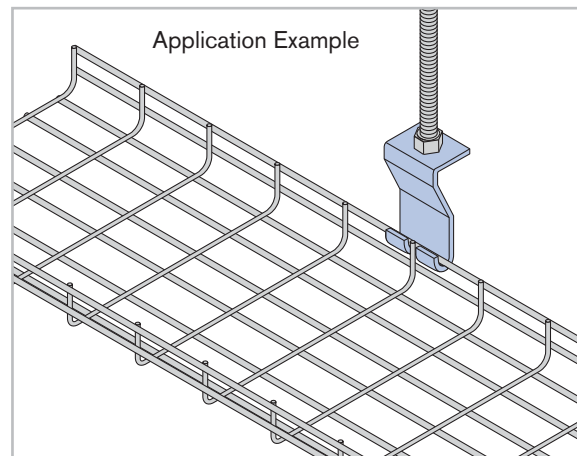
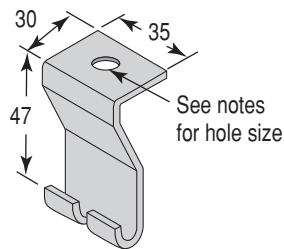


UNISTRUT® ACROFIL® – DROP ROD CLIPS

DROP ROD CLIP (AF-SIDECLIP)

Weight: 0.06kg/each

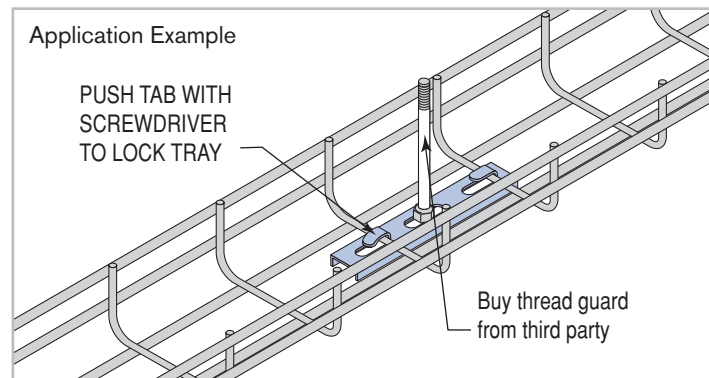
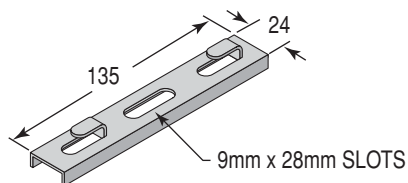
- Standard finish zinc plated
- 2mm Bracket thickness
- For all widths of tray
- Use AF-SIDECLIPM8 for 8mm Rod
- Use AF-SIDECLIPM10 for 10mm Rod



DROP ROD CLIP (AF-RODCLIP1)

Weight: 0.05kg/each

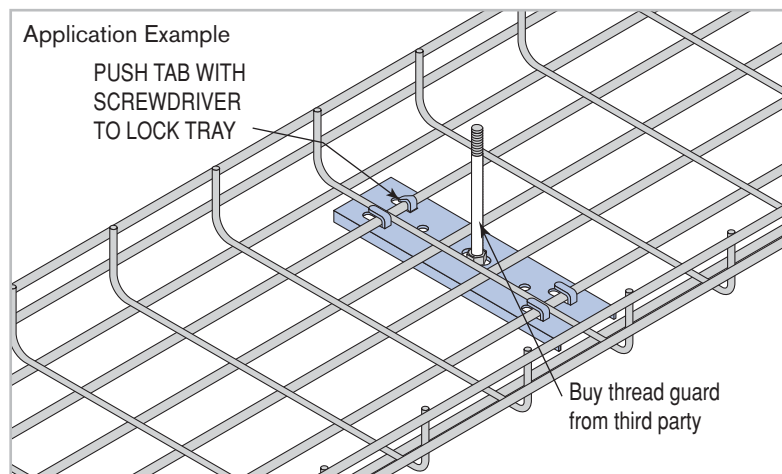
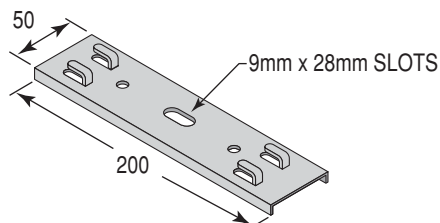
- Standard finish zinc plated
- 2mm Bracket thickness
- For all 100mm wide & 150mm wide tray



DROP ROD CLIP [AF-RODCLIP2]

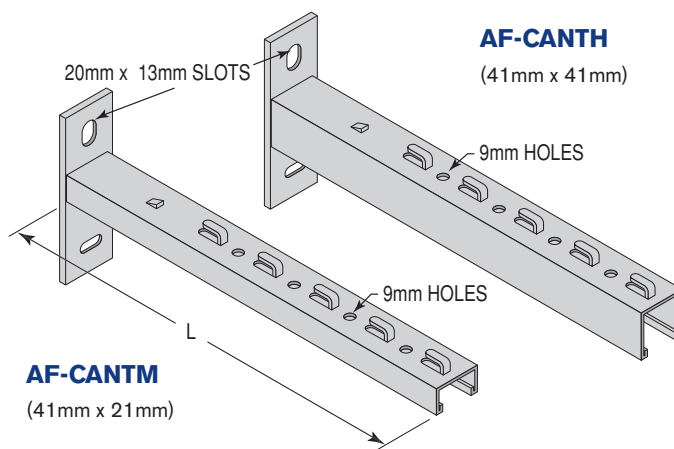
Weight: 0.18kg/each

- Standard finish zinc plated
- 2mm Bracket thickness
- For all 200mm wide & 300mm wide tray

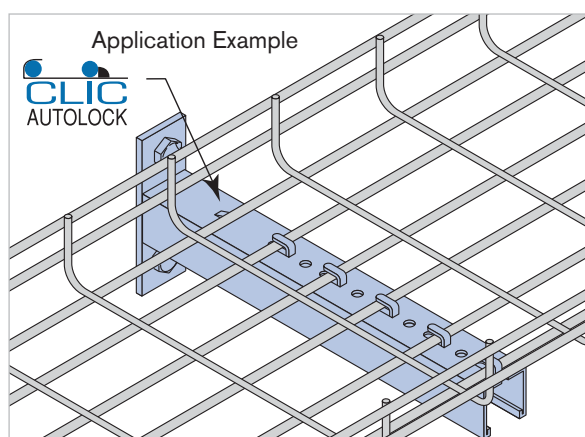


UNISTRUT®**ACROFIL® – CANTILEVER & ZED FLOOR/WALL BRACKETS****CANTILEVER MEDIUM [AF-CANTM-(W)] & HEAVY [AF-CANTH-(W)]**

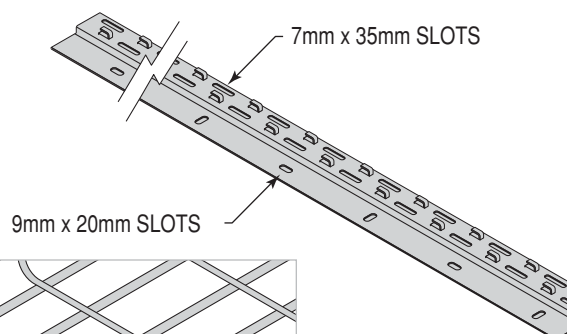
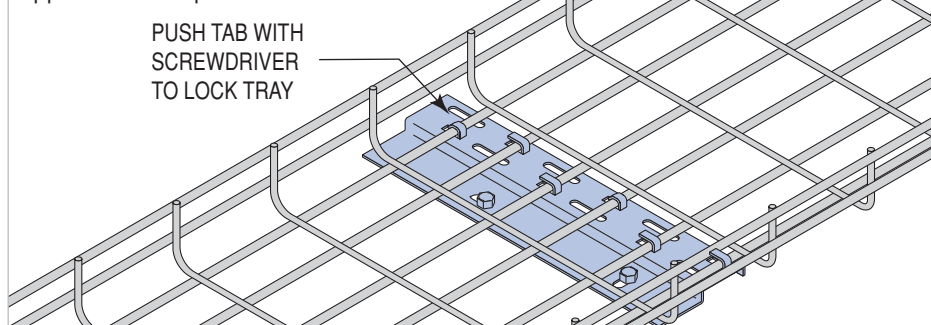
- Standard finish is Heavy Duty Galvanised
- Cantilever arm support 41mm x 41mm or 41mm x 21mm strut
- Unique Auto-Lock system requires no hardware to fasten the tray to the supports
- Use Strut Profile to support other items below the support bracket using strut hardware



Part No.	Channel Size (mm)	Tray Width (W) (mm)	Length (L) (mm)	Weight (kg)	Load (kN)
AF-CANTM-150	41 x 21	150	180	0.45	2.45
AF-CANTM-200	41 x 21	200	230	0.52	1.77
AF-CANTM-300	41 x 21	300	330	0.66	1.57
AF-CANTH-200	41 x 41	200	230	0.72	4.41
AF-CANTH-300	41 x 41	300	330	0.95	3.34
AF-CANTH-400	41 x 41	400	430	1.29	2.65
AF-CANTH-500	41 x 41	500	530	1.52	2.65
AF-CANTH-600	41 x 41	600	630	1.78	2.16

**ZED [AF-ZBAR-3M]****Weight: 4.8kg/each**

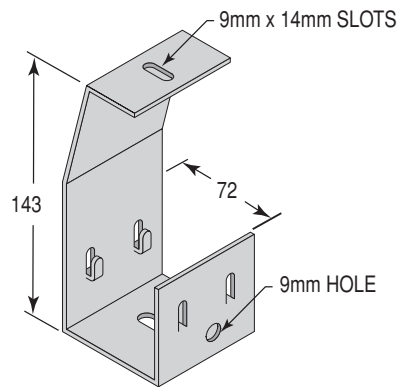
- ZED floor or wall mounted support is 13mm x 89mm
- Standard finish Galvabond Z275
- Support is 3m long, customer cuts to size as needed
- Unique grip system requires only a push of a screwdriver to fasten the tray to the supports

**Application Example**

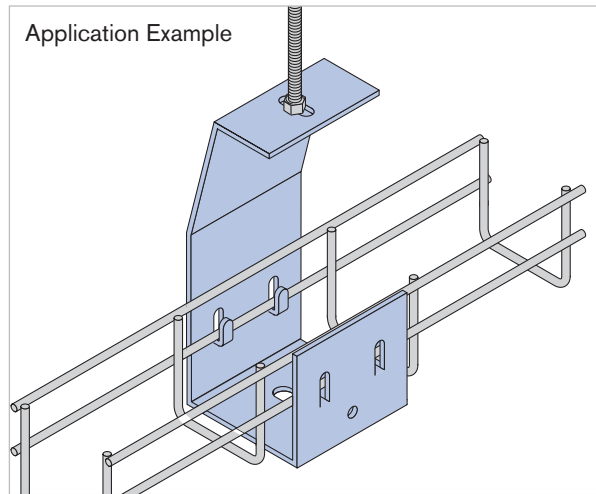
HANGER [AF-HGR-50]

- Standard finish is Galvabond Z275
- Ceiling or centre hung with threaded rod

NOTE: For use with AF50-50 only



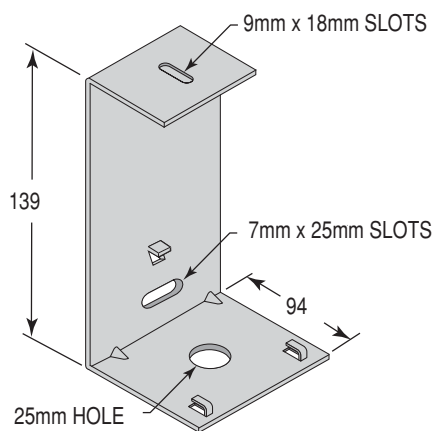
Application Example



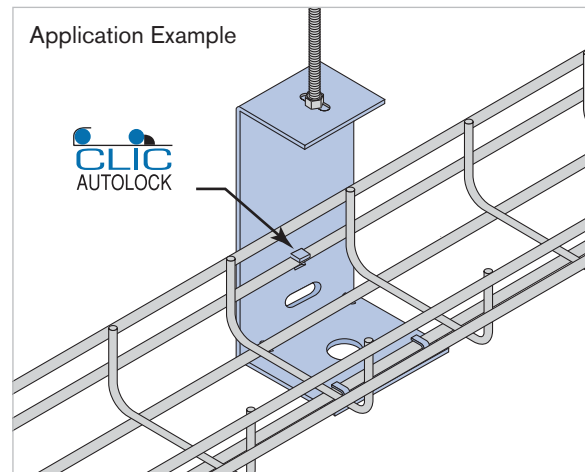
HANGER [AF-HGR-100]

- Standard finish is Galvabond Z275
- Ceiling or centre hung with Unirod steel threaded rod

NOTE: For use with AF50-100 or AF100-100 only



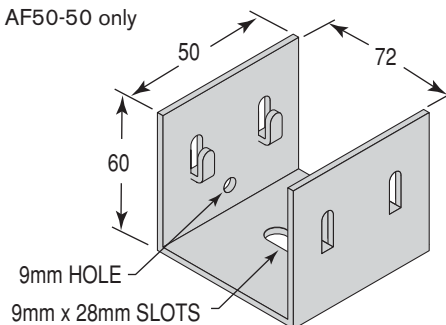
Application Example



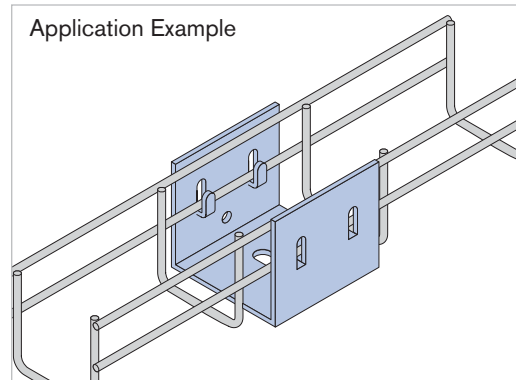
WALL BRACKET [AF-WB-50]

- Standard finish is Galvabond Z275

NOTE: For use with AF50-50 only



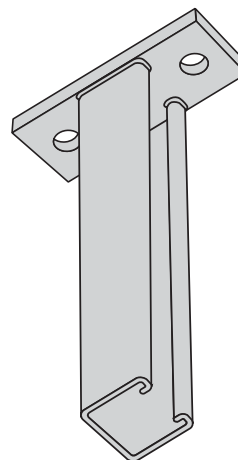
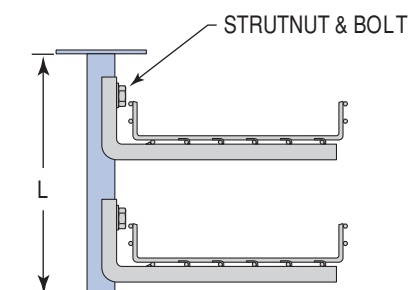
Application Example



UNISTRUT®**ACROFIL® – HANGING BRACKETS AND PENDANTS****SINGLE CHANNEL PENDANT [P2663-(L)]**

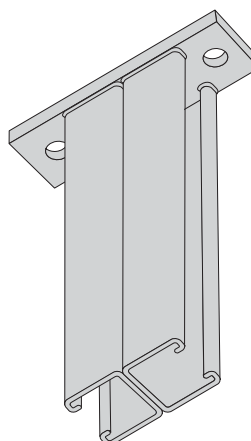
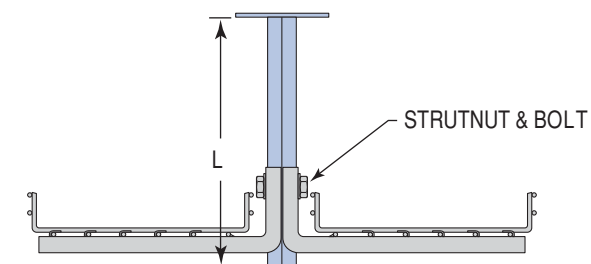
- Standard finish is Heavy Duty Galvanised

Part No.	Length (L) (mm)	Design Uniform Load (kN)	Weight (kg)
P2663-250	250	3.01	1.02
P2663-400	400	1.88	1.43
P2663-450	450	1.51	1.53
P2663-550	550	1.36	1.86
P2663-700	700	1.06	2.29

**Application Example****BACK-TO-BACK CHANNEL PENDANT [P2542 THRU P2546]**

- Standard finish is Heavy Duty Galvanised

Part No.	Length (L) (mm)	Design Uniform Load (kN)	Weight (kg)
P2542	305	7.57	2.28
P2543	460	5.22	3.14
P2544	610	3.98	4.00
P2545	760	3.21	4.87
P2546	915	2.67	5.74

**Application Example**

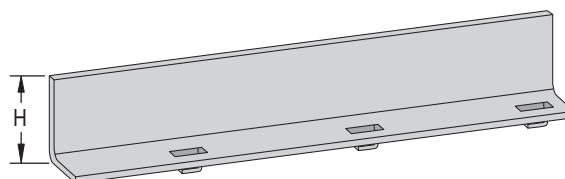
NOTE: Non stock item made to order.

UNISTRUT® ACROFIL® – ACCESSORIES

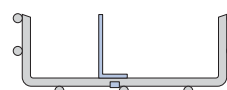
TRAY DIVIDERS [AF-DIV50] & [AF-DIV100]

- Standard finish is Galvabond Z275
- Locks into tray with auto-lock tabs (no hardware required)
- Cut “V” notches into bottom flange to make barriers for flat fittings

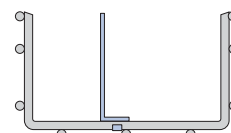
Part	Height (H) (mm)	Weight (kg)
AF-DIV-50	50	2.4
AF-DIV-100	100	3.6



Application Example



AF-DIV50



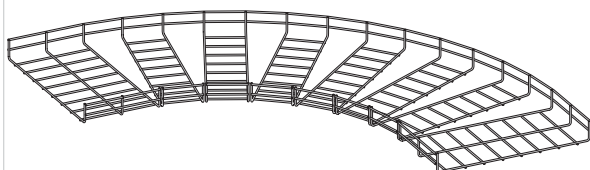
AF-DIV100

FITTINGS OVERVIEW

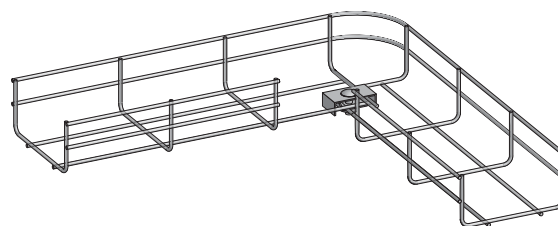
Fittings are typically fabricated on the job.

To determine the fitting hardware required to create a set of fittings, see the following pages

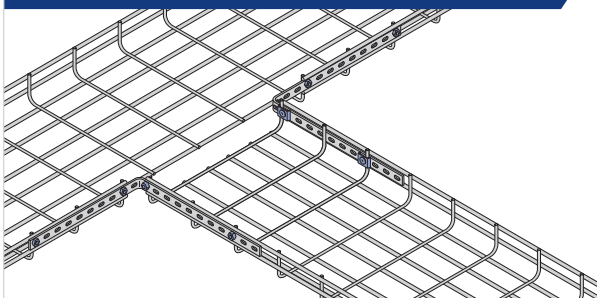
90° LONG RADIUS BEND



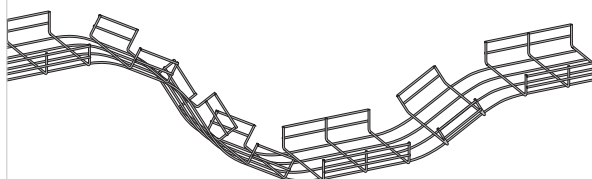
90° SHORT RADIUS BEND



TEE AND CROSS

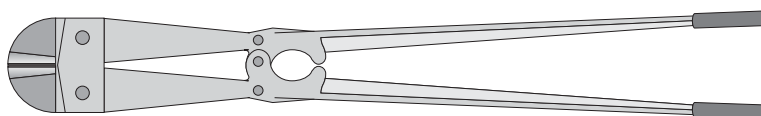


RISERS

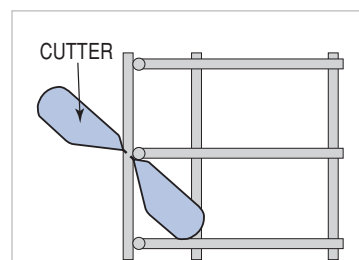


CUTTING TOOL [AF-CUTTOOL]

Fittings can be formed easily on-site by cutting the bottom and side wires. Cut the tray bars on an angle as shown in the illustration.



NOTE: When cutting, keep the remaining sharp edge away from the inside of the tray.



UNISTRUT® ACROFIL® – SPECIFICATION

1.0 ACCEPTABLE MANUFACTURES

Provide “ACROFIL®” Wire Basket type of cable management system as manufactured by Unistrut® or engineered approved equal.

All cable trays shall be installed in a neat uniform fashion. Installing contractor shall field modify tray system to accommodate the exact routing requirements.

2.0 MATERIAL/FINISHES

Wire basket tray to be fabricated from high strength steel wires.

2.1 Acceptable finishes

2.1.a Standard Finish

Zinc Plated Steel in accordance with AS 1789

2.1.b Other Finishes

Heavy Duty Galvanised – Steel in accordance with AS/NZS 4680

Pregalvanised Galvabond – AS 1397 with a coating class of Z275.

SS – AISI 316L stainless steel.

3.0 - STRAIGHT SECTIONS

Straight sections shall be manufactured from high strength steel wires forming 50mm X 100mm openings and shall conform to the following dimensions.

3.1 Length

Straight sections shall be supplied in 3m lengths.

3.2 Width

Widths shall be 50, 100, 150, 200, 300, 400, 450, 500, or 600 as called out on drawings. (mm)

3.3 - Load depths

The load depths shall include 50mm & 100mm as required.

4.0 SPLICES

All straight sections shall be supplied with pre-installed, auto-locking, splices plates, where possible, as per Unistrut® “ACROFIL®”. Trays design shall allow for a snap together type connection and shall require no nut and bolt assembly.

5.0 FITTINGS

All fittings shall be fabricated in the field as required, per manufacturer’s recommendations. Radius of the fittings shall be based on the “minimum bending” radius of the cables being installed.

6.0 ACCESSORIES

Accessories such as blind ends, dropouts, and barriers, etc... shall be installed as specified on drawings.

7.0 SUPPORTS

Supports shall include, but are not limited to, centre type, trapeze type, wall supports, and floor supports.

7.1 Auto Locking

All supports shall be supplied with an Auto locking feature, requiring no special tools for attachment of the trays.

7.2 Finish

All supports, including threaded rod and associated hardware shall be zinc plated coated to AS 1789.