

# ELECTRICAL AND MECHANICAL SUPPORT SYSTEMS

METAL FRAMING • PIPE SUPPORTS • FITTINGS, NUTS & HARDWARE  
CABLE TRAYS & CABLE LADDERS

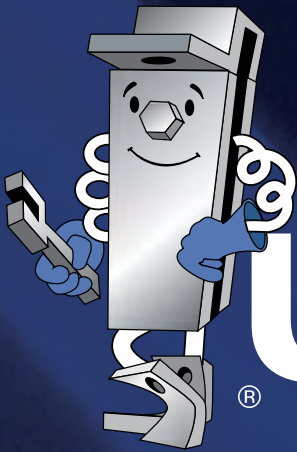


One trusted  
supplier, 90 years  
of support.

CATALOGUE – VOLUME 20

# UNISTRUT®

A PART OF  **atkore**  
INTERNATIONAL



# UNISTRUT®

A PART OF  **atkore**  
INTERNATIONAL

**Unistrut® is the original metal framing system, featuring a unique weldless connection. The Unistrut® system eliminates welding and drilling, and is easily adjustable and reusable for infinite configurations. Since 1924, our brand has evolved from a simple connection concept to a comprehensive engineered building and support system featuring a robust line of channels, fittings, fasteners, hangers, pipe clamps, cable trays and cable ladders. Backed by our worldwide network of engineering and distribution centres, we provide customers with total-resource capability, making Unistrut® the brand everyone asks for by name.**





## UNISTRUT®

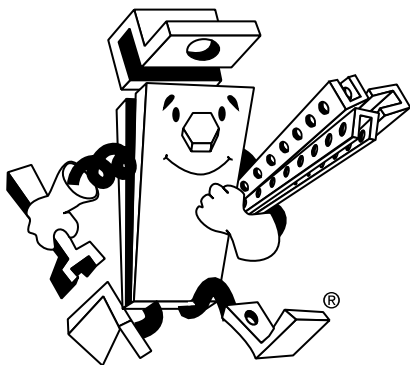
# THE UNISTRUT® WORLD OF SUPPORT STARTS WITH OUR NETWORK OF UNISTRUT® SERVICE CENTRES ACROSS THE NATION.

**T**he Unistrut® World of Support starts with our network of Unistrut® Service Centres across Australia. They go far beyond providing local product inventories, by offering complete application solutions, based on experience gained from thousands of projects worldwide.

It's the kind of knowledgeable assistance that can help save time and cost now, and simplify change in the future.

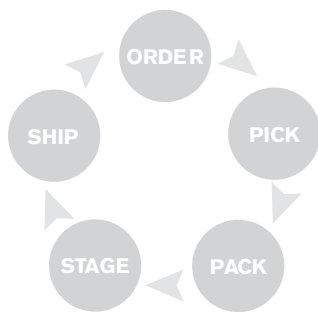
Technical help? No one knows the engineering side of Unistrut® support systems like your local Unistrut® team. If it's special fabrication, cutting or custom finishing you want, the pros at your local Unistrut® Service Centre will make it happen - quickly, efficiently, economically.

So when it's help you need, call your Unistrut® Service Centre – the quickest way to unlock Unistrut's World of Support.



# UNISTRUT<sup>®</sup>

**90**  
YEARS OF  
INNOVATION



## UNISTRUT<sup>®</sup> AUSTRALIA

Unistrut<sup>®</sup> has been the leading supplier of metal framing systems for over 90 years. We specialise in Metal Framing, Cable Management and our products and services are synonymous with engineering excellence and reliability worldwide.

## OVER NINETY YEARS OF INNOVATION

Unistrut<sup>®</sup> began developing and manufacturing products during the 1920s, producing the original Unistrut<sup>®</sup> Metal Framing System.

Our extensive product portfolio now includes a variety of cable management solutions and advanced metal framing systems.

## SHARING OUR EXPERIENCE, KNOWLEDGE AND EXPERTISE

We continue to make investments in our people, products and services. Our ability to share our experience and knowledge with our customers is the key to our success in a wide range of industry sectors.

## PROVEN DELIVERY PROCESSES

Unistrut<sup>®</sup> has proven procedures that guarantee the delivery of orders.

## PART OF THE ATKORE INTERNATIONAL<sup>®</sup> FAMILY

Atkore is a major manufacturer and innovator with a unique focus on steel frame, pipe and electrical products. As part of the Atkore family, we can draw on a variety of technologies, products and experience from Atkore companies throughout the world.





## WIDE RANGE OF FITTINGS FOR THE MINE & GAS INDUSTRY



### UNISTRUT®

Unistrut® can supply a wide variety of standard structural fittings in zinc plated hot dipped galvanised, aluminium and 316 stainless steel. Unistrut® engineers can also design specialised fittings for individual project needs.

With resources across the Asia Pacific region, including manufacturing sites in Australia and Asia totaling over 400,000m<sup>2</sup> in floor space accredited to ISO9001.

Unistrut® owned facilities have automated welding, over 30 metal pressing machines, from 16 to over 300 tonnes, and roll forming machinery. Services from both our Unistrut® fully owned operations and our JV partner facilities can fully label pack and ship to your individual specifications. Marshalling and packaging is done in-house and from our manufacturing facility fully undercover.

### PROJECTS IN THE REGION SUCCESSFULLY SUPPLIED INCLUDE

- **Tropicana Gold WA:** AUD \$1m supplied directly into the centre of Western Australia
- **NCIG Coal Loader:** New South Wales Australia
- **Pluto Liquid Natural Gas Plant Woodside:** Western Australia
- **North - South By Pass Tunnel:** Brisbane Australia
- **Queensland Curtis Island Liquidified Natural Gas**
- **Yamal LNG Energy:** Russia
- **Hidden Valley Gold Mine:** Papua New Guinea
- **Goro Nickel Mine:** New Caledonia

### ATKORE INTERNATIONAL® OVERVIEW

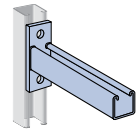
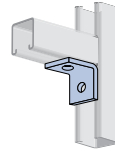
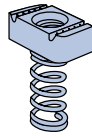
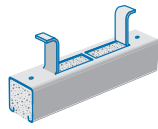
- Revenue of \$1.8B
- 3,100+ employees
- 27 manufacturing and service locations in North America, EMEA and Asia Pacific
- Strong brands that are well known by customers and respected in the industry
- Purchase & process close to one million tonne of steel per year – approximately 50,000 truckloads
- Produce enough electrical cable each year to circle the earth 7 times
- Electrical Raceway and Mechanical Products solutions



# UNISTRUT® TABLE OF CONTENTS

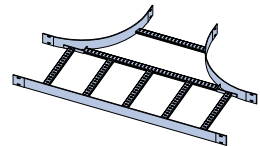
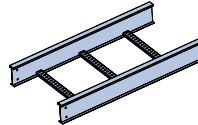
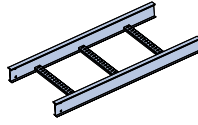
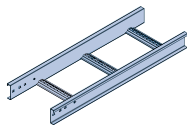
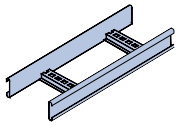
## STRUT SYSTEMS

5 - 56



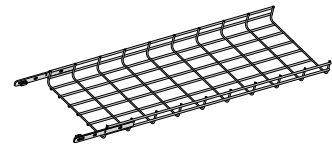
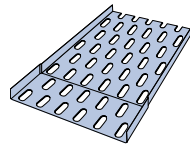
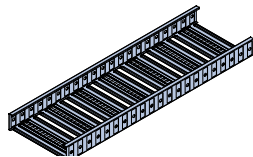
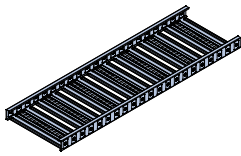
## NEMA CABLE LADDERS

57 - 91



## CABLE TRAYS

92 - 131



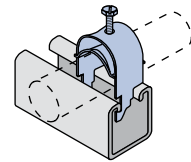
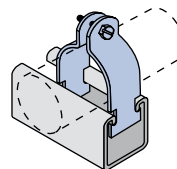
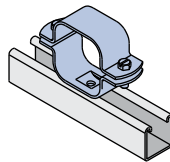
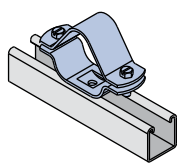
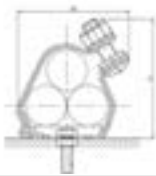
## METAL CABLE DUCT

132 - 133



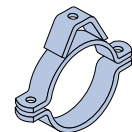
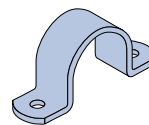
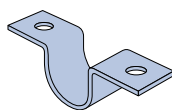
## CABLE CLEATS

134 - 139



## SPRINKLER & PIPE SUPPORTS

140 - 162



## PART NUMBER AND KEYWORD INDEX

163 - 176

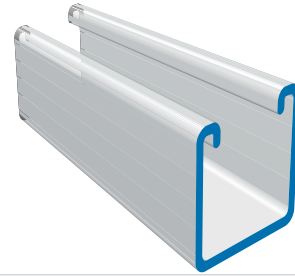


# THE MOST COMPLETE METAL FRAMING SYSTEM

## P1000®

STRUT SIZE: 41mm x 41mm  
MATERIAL THICKNESS: 2.5MM

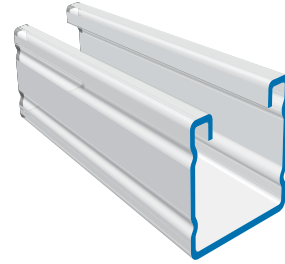
14



## P2000

STRUT SIZE: 41mm x 41mm  
MATERIAL THICKNESS: 1.6mm

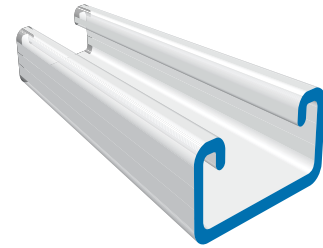
15



## P3300

STRUT SIZE: 41mm x 22mm  
MATERIAL THICKNESS: 2.5mm

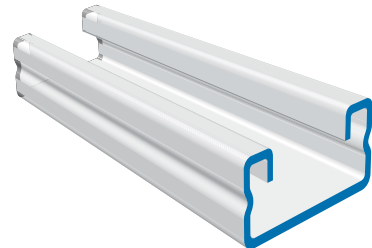
16



## P4000

STRUT SIZE: 41mm x 21mm  
MATERIAL THICKNESS: 1.6mm

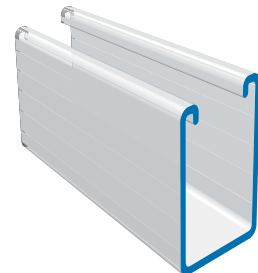
17



## P5500

STRUT SIZE: 41mm x 62mm  
MATERIAL THICKNESS: 2.5mm

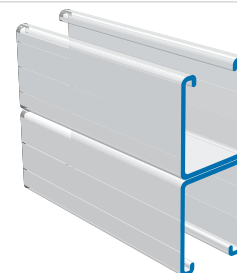
18



## COMBINATIONS

STRUT SIZE: VARIES  
MATERIAL THICKNESS: 2.5mm

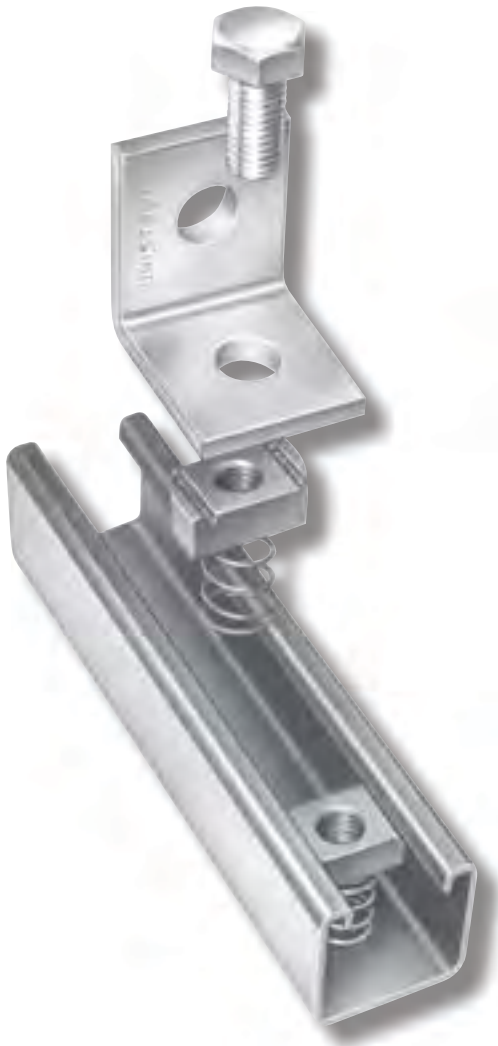
19-21



# UNISTRUT®

## THE ORIGINAL STRUT SYSTEM

### ADJUSTABLE, DEMOUNTABLE, REUSABLE



#### LOOK FOR THESE FEATURES:

Large chamfer in the nut eases starting of bolt.

Special shaped inturned edges and tapered, serrated grooves produce strong vice-like grip between channel and nut.

Strut edges and nut's tapered grooves act as guides to provide positive alignment of connection.

- Nut teeth grip the Strut's inturned edges, tying the channel sides together in a "box" configuration for added strength.
- Longitudinal movement of nut is resisted as hardened teeth bite into the inturned edges.
- Spring allows precision placement anywhere along Strut length, then holds nut in position while connection is completed - the installer's "third hand".



Spring nut is inserted anywhere along continuous slot. Rounded nut ends permit easy insertion.



A 90° turn positions the serrated grooves in the nut with the inturned edges of the Strut.



Fittings may be placed anywhere along Strut slot permitting complete freedom of adjustment. The need for drilling holes is eliminated.

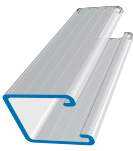



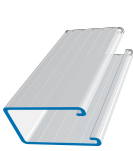
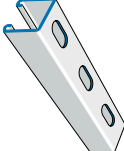
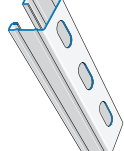
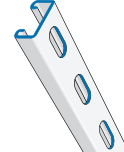
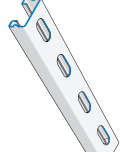
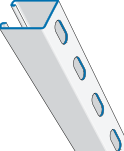
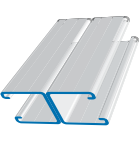
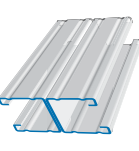


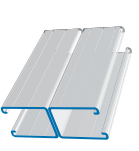














































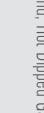

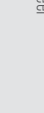
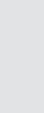
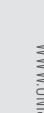


The fitting makes the connection between any framing Strut or as means for other attachments.



A turn of a spanner locks the serrated teeth of the nut into the inturned edges of the Strut to make the strong, vice-like connection.



STRUT SIZE	41 X 41	41 X 41	41 X 22	41 X 21	41 X 62
MATERIAL THICKNESS	2.5mm	1.6mm	2.5mm	1.6mm	2.5mm
<b>Strut</b>	P1000® 	P2000 	P3300 	P4000 	P5500 
<b>Strut - SLOTTED</b>	P1000T 	P2000T 	P3300T 	P4000T 	P5500T 
<b>Strut - BACK TO BACK</b>	P1001 	P2001 	P3301 	P4001 	P5501 
<b>STRUT NUTS - WITH SPRING</b>	P1000®	P2000	P3300	P4000	P5500
6mm	P1006 	P1006 	P4006 	P4006 	
8mm	P1007 	P1007 	P4007 	P4007 	
10mm	P1008 	P1008 	P4008 	P4008 	P5508 
12mm	P1010 	P1010 	P4010 	P4010 	P5510 
16mm	P1012S 	P1012S 	P4012S 	P4012S 	
<b>STRUT NUTS - WITHOUT SPRING</b>	P1000®	P2000	P3300	P4000	P5500
6mm	P3016 	P3016 	P3016 	P3016 	P3016 
6mm	P3006 	P3006 	P3006 	P3006 	P3006 
8mm	P3007 	P3007 	P3007 	P3007 	P3007 
10mm	P3008 	P3008 	P3008 	P3008 	P3008 
12mm	P3010 	P3010 	P3013 	P3013 	P3010 
16mm	P1012 	P1012 	P4012 	P4012 	P1012 

Standard Strut Length: 6 metres Material Finishes: Strut: Plain, Galvanneal, Hot Dipped Galvanneal, Stainless Steel, Strut Nuts: Zinc Plated, Hot Dipped Galvanneal, Stainless Steel

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# UNISTRUT®

## STRUT - GENERAL SPECIFICATIONS

### FRAMING MEMBERS

Strut and continuous inserts are accurately and carefully cold formed to size from low carbon strip steel. The Strut has a continuous slot with inturned edges. Secure attachments may be made to the framing member with the use of hardened, toothed, grooved nuts which engage the inturned edges.

### FITTINGS

The fittings, unless noted otherwise, are punch press formed from low carbon steel plates or strip.

### STRUT NUTS

The Unistrut® nuts are produced from steel bars and after all manufacturing operations are completed, zinc plated nuts are case hardened. They are rectangular with the ends so shaped as to permit a quarter turn crosswise in the framing member after inserting through the slotted opening in the Strut and to prevent any further turning of the nut. Two serrated grooves in the top of the nut engage the inturned edges of the Strut and after bolting operations are completed, will prevent any longitudinal movement of the bolt and nut within the framing member. All bolts and nuts have ISO metric coarse screw threads.

### MASSES AND DIMENSIONS

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

#### Material

All single Unistrut® Strut members are accurately and carefully rolled from strip steel to AS1594 and AS1365. Spot-welded combination members are welded 75mm (maximum) on centre. Some members may require fillet welding.

#### Standard Lengths

Standard lengths of the above Strut are 6m. Facilities are available to cut standard lengths into any special lengths for a small cutting charge. Custom lengths and custom products are non-returnable and non-refundable.

#### Section Shape

The roll forming process used by Unistrut® Australia produces a consistent Strut within the manufacturing tolerance allowed. The process includes stresses within the section itself which are released when the Strut is cut. This creates a common condition known as "Bellmouth" where the section deforms slightly for a small distance in from the end.

### FINISHES

All Strut are available in Plain, Hot Dipped Galvanised, Galvabond, Zinc Plated and Polyester finishes.

**Plain** - Plain finish on Unistrut® Strut is an oiled finish that is applied to the raw material by the steel mill. The cold rolling process used to form Unistrut® Strut removes the excess of this oil and the residue provides a modicum of protection for the channel in storage. The plain finish on Unistrut® fittings is that of the commercial bar stock input material. No surface treatment is applied to plain finish fittings.

**Galvabond Strut** - Input material is supplied by the steel mill generally in accordance with AS1397 having a coating class of Z275. The material is slit to width and roll formed to shape.

**Powder Coated** - Strut and parts are carefully cleaned and phosphated. Immediately after phosphating, a uniform coat of thermosetting polyester powder is electrostatically applied then baked. Minimum coating thickness to exterior surfaces is 50 microns. The polyester coating is ultra-violet stabilised.

**Hot Dipped Galvanised** - Coatings are applied generally in accordance with AS/NZS4680. 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.

**Zinc Plated** - Strut, fittings and components are electroplated generally in accordance with AS1789. Fasteners are electroplated generally in accordance with AS1897 Service Condition 1.

**Stainless Steel** - Unistrut® stainless steel Strut is manufactured from Grade 316 stainless steel. The material is slit to width and roll formed to shape. Grade 316 stainless steel has excellent corrosion resistance and has advantages over grade 304 stainless steel, such as:

- Resistance to pitting and crevice corrosion in chloride environments.
- Superior resistance to ordinary rusting in most applications.
- Regularly used in aggressive coastal and marine environments.
- Highly recommended for food processing environments where it can be easily cleaned and has a greater resistance to organic and inorganic chemical substances.

**Aluminium** - Unistrut® aluminium Struts are manufactured from high strength alloy 6106-T6 for all extruded components and 5005 for sheet or plate components. These alloys are suitable for marine applications and offer excellent all round corrosion resistance.

**Specific Coating** - When specific applications require other commercially available finishes, they can be supplied according to specification. Custom products are non-returnable and non-refundable.

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## BEAMS & COLUMNS LOADS

### Notes to Table

Note 1: Loads are governed by shear or web crippling.  
 Note 2: For uniform beam working loads asymmetric sections are required to be adequately braced to prevent rotation and twist.

### Beam Loads

The loads and deflections shown are based on simply supported beams uniformly loaded.

## NOTES ON DERIVATION OF STRUCTURAL DATA

### 1. Section Properties

Section properties have been derived from 'as formed' shapes and are based on nominal dimensions and nominal base steel thickness. Nominal masses are calculated from the tabulated areas based on a steel density of 7850 kg per cu.m. For dead load calculations the tabulated masses should be increased by 10% to allow for rolling tolerances, and the result multiplied by 0.0098 to give corresponding dead load (self weight) in kN per m. run of section. Also note the beam and column loads do not make allowance for self weight of the section. When designing a structure in which the section forms an integral part, the self weight should be determined using the method described above and subtracted from the tabulated load.

### 2. Beam and Column Load Tables

Ultimate load values have been calculated from the section properties as permitted by AS/NZS 4600 Cold Formed Steel Structures code. The guaranteed minimum yield stress  $F_y$  has been taken as 264 MPa for plain Struts, and the increase allowed resulting from cold forming has been determined in accordance with the code. The listed working loads have been derived from the ultimate load divided by 1.5.

#### 2.1 Span or Column Length

Listed value is to be taken as the distance between centres of supports.

#### 2.2 Beam Load at Maximum Permissible Stresses

In order to establish the table of working loads that can be carried by the corresponding section, the ultimate limit state loads that could be permitted by the code were first determined. These were divided by 1.5 to provide 'conservative' working loads. The load is considered to be uniformly distributed along the span and orientated with respect to the section, as defined by the diagrams to cause bending about X-X axis only. The webs of the beams are assumed to be unstiffened and have been checked for end bearing in accordance with clause 3.3.6 of AS/NZS4600:2005. Where this is critical the working loads have been appropriately reduced. This assessment has been based on a rigid support with the beam bearing on each support for a length equal to at least the straight length of web-depth of the basic section.

### 2.3 Deflection

Deflections are calculated for the corresponding beam working load, using standard formulae. Deflections or uniformly distributed loads for conditions other than those tabulated may be calculated from the following:-

$$\delta_2 = (W2 / W1) \times (L2 / L1)^3 \times \delta_1$$

W1 = tabulated load in kN

$\delta_1$  = corresponding tabulated deflection in mm

L1 = corresponding tabulated length in mm

W2 = new load in kN

L2 = new length in mm

$\delta_2$  = deflection corresponding to new length and new load

It is recommended that beam deflections generally be limited to the smaller of span/180 or 10mm and loads restricted accordingly. These limitations are based on 'visual straightness' with the latter value subject to variation to suit particular visual or other physical requirements.

### 2.4 Maximum Column Load

Listed values of column load capacity are derived on the basis of a concentric axial load applied to the section, acting as a column with an effective length corresponding to the listed value, i.e. translational and torsional restraint available at the centres of supports. For other conditions of loading and/or restraint, reference should be made to the appropriate sections of AS/NZS 4600 Cold Formed Steel Structures.

### 3. Recommended Bearing & Connection Loads

Listed values are based on extensive testing of components by Unistrut® Australia Pty Limited using a factor of safety of 2.5 against failure of the connection.

### 4. Point Loads

For point loads at midspan, the allowable loads are half the values shown in the tables. The deflection for the point load is obtained from:  $\delta_2 = 0.80 \delta_1$  where  $\delta_1$  is the deflection for a uniform load which is double the value of the point load.

### ABBREVIATIONS:

A = Area of Section  
 I = Moment of Inertia  
 z = Section of Modulus  
 r = Radius of Gyration

### FINISHES:

AL Aluminium  
 GB Galvabond  
 HG Hot Dipped Galvanised  
 MG Mechanically Galvanised  
 PL Plain


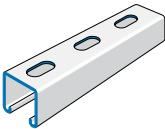
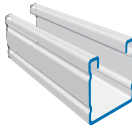
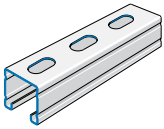

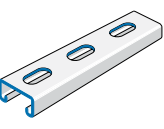
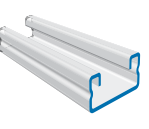
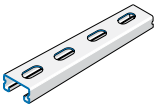

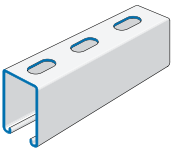



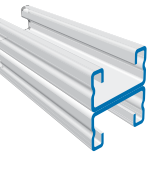





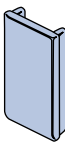
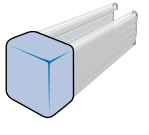

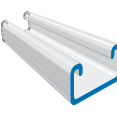
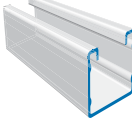
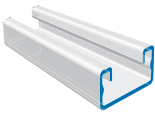


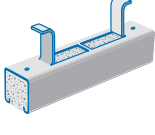
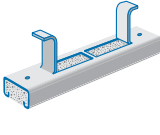
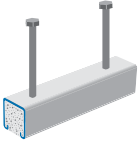
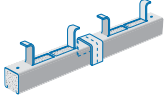
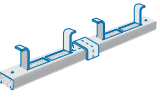
### MEASUREMENT:

m Metre  
 mm Millimetre  
 kg Kilogram

PVC Plastic  
 SS Stainless Steel  
 ZP Zinc Plated  
 ZA Zinc Plated - Yellow Iridescence

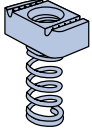






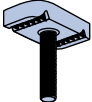
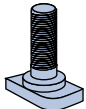
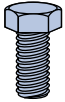
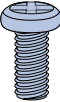
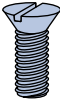

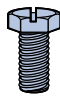





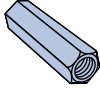

# UNISTRUT® UNISTRUT® PICTORIAL INDEX

## STRUT SYSTEMS - STRUT

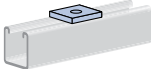
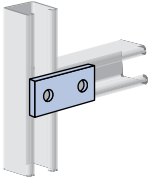
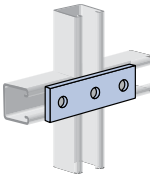
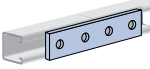
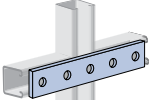
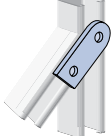
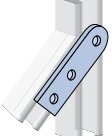
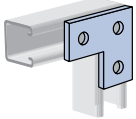
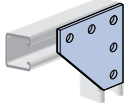
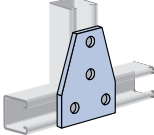
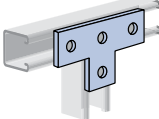
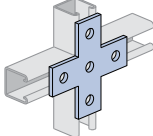
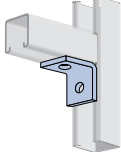
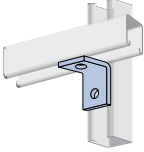
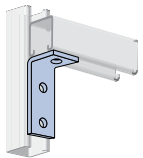
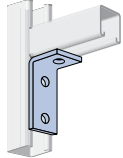
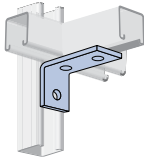
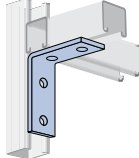
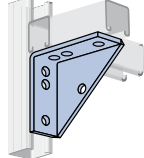
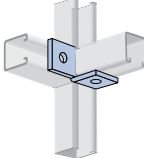
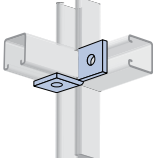
						
P1000® [PL/GB/HG] PG. 14	P1000T [PL/GB/HG] PG. 14	P2000 [PL/GB/HG] PG. 15	P2000T [PL/GB/HG] PG. 15	P3300 [PL/GB/HG] PG. 16	P3300T [PL/GB/HG] PG. 16	P4000 [PL/GB/HG] PG. 17
						
P4000T [PL/GB/HG] PG. 17	P5500 [PL/GB/HG] PG. 18	P5500T [GB/HG] PG. 18	P1001 [PL/GB/HG] PG. 19	P2001 [PL/GB/HG] PG. 19	P3301 [PL/GB/HG] PG. 20	P4001 [PL/GB/HG] PG. 20
						
P5501 [PL/GB/HG] PG. 21	P1184 - PLASTIC CLOSURE STRIP PG. 22	P1184A - ALUMINUM CLOSURE STRIP PG. 22	P2240 PG. 22	P4240 PG. 22	P5580 PG. 22	P2860-10 - CHANNEL END CAPS - PLASTIC PG. 22
<b>STRUT SPECIAL METALS</b>						
						
P1000-SS STAINLESS STEEL PG. 23	P3300-SS STAINLESS STEEL PG. 23	P2000-AL ALUMINUM PG. 23	P4000-AL ALUMINUM PG. 23	P2001-AL ALUMINUM PG. 23	P4001-AL ALUMINUM PG. 23	
<b>STRUT CONCRETE INSERT</b>						
						
P1000CI PG. 30/31	P3300CI PG. 30/31	P3753 HEAVY DUTY INSERT PG. 30	P1663 CI JOINT COVER PG. 30	P4663 CI JOINT COVER PG. 30		

# UNISTRUT® UNISTRUT® PICTORIAL INDEX

## STRUT NUTS AND HARDWARE

						
FOR P1000® & P2000 STRUT NUTS, WITH SPRINGS	FOR P3300 & P4000 STRUT NUTS, WITH SPRINGS	FOR P5500 STRUT NUTS, WITH SPRINGS	STUD NUT - P2378M6-1 TO P2381M12-5	FOR P1000® & P2000 STRUT NUTS, NO SPRINGS	FOR P3300 & P4000 STRUT NUTS, NO SPRINGS	FOR P5500 STRUT NUTS, NO SPRINGS
PG. 32	PG. 32	PG. 32	PG. 32	PG. 33	PG. 33	PG. 33
						
FIXTURE STUD NUT - P3116	STUD BOLT - USB045 TO USB102	HEX HEAD SET SCREWS	PAN HEAD SCREWS	COUNTERSUNK HEAD SCREW	CONE POINT SET SCREW	SLOTTED HEX HEAD SET SCREWS
PG. 33	PG. 33	PG. 34	PG. 34	PG. 34	PG. 34	PG. 34
						
HEXAGON NUTS	FLAT WASHERS	SPRING WASHERS	SHAKEPROOF LOCK WASHER	UNIROD STEEL THREADED ROD	ROD COUPLERS	DROP IN ANCHOR
PG. 34	PG. 34	PG. 34	PG. 34	PG. 34	PG. 34	PG. 34

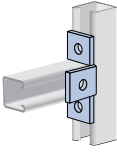
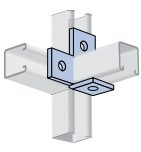
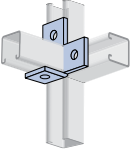
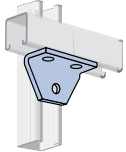
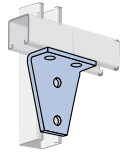
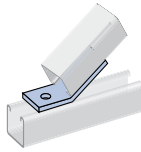
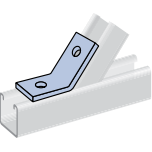
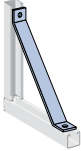
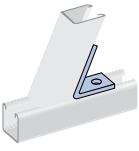
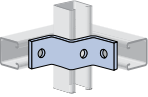
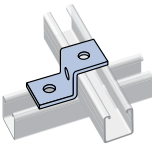
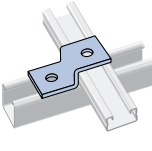
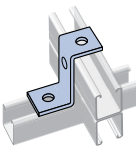
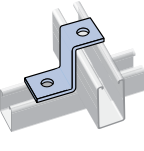
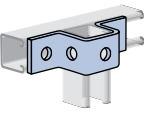
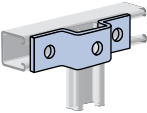
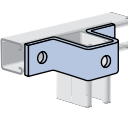
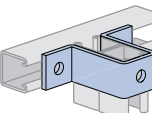
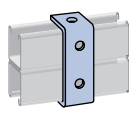
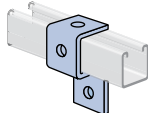
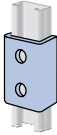
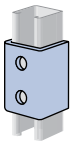
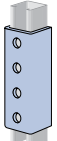
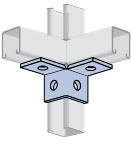
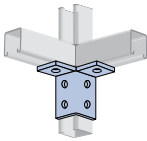
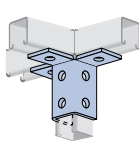
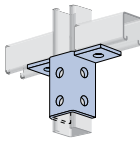
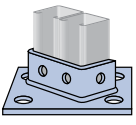
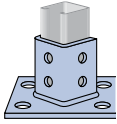
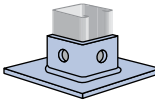
## STRUT FITTINGS

						
P1062 - P1964	P1065	P1066	P1067	P1941	P2325	P2324
PG. 35	PG. 35	PG. 35	PG. 35	PG. 35	PG. 35	PG. 35
						
P1036	P1873	P1358	P1031	P1028	P1026	P1068
PG. 35	PG. 35	PG. 36	PG. 36	PG. 36	PG. 36	PG. 36
						
P1326	P1346	P1458	P1325	P2484	P1037	P1038
PG. 36	PG. 36	PG. 36	PG. 36	PG. 36	PG. 36	PG. 36

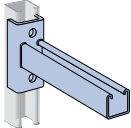
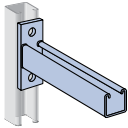
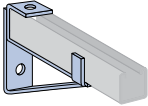
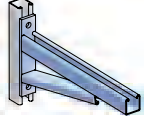
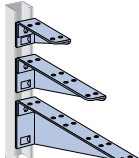
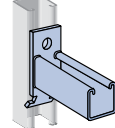
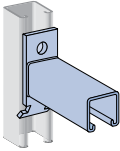
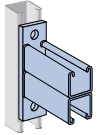
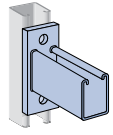
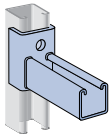
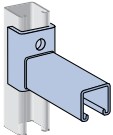
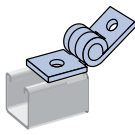
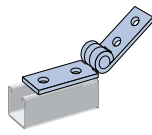
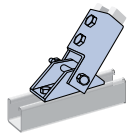


# UNISTRUT® UNISTRUT® PICTORIAL INDEX

## STRUT FITTINGS (CONT.)

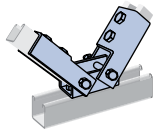
 P1033 PG. 37	 P1034 PG. 37	 P1035 PG. 37	 P1357 PG. 37	 P1359 PG. 37	 P2101 & P2103 PG. 37	 P1546, P2095, P2097 PG. 37
 P2452 PG. 37	 P1186, P2106, P2108 PG. 37	 P1736 PG. 37	 P1045 PG. 37	 P4045 PG. 37	 P1453 PG. 38	 P5545 PG. 38
 P1047 PG. 38	 P4047 PG. 38	 P5547 PG. 38	 P1737 PG. 38	 P1044 PG. 38	 P1046 PG. 38	 P4376 PG. 38
 P1376 PG. 38	 P1377 PG. 38	 P2223 PG. 38	 P2224 PG. 39	 P2228 PG. 39	 P2346 PG. 39	 P2073 PG. 39
 P2072A PG. 39	 P2072S1 PG. 39					

## CANTILEVER BRACKETS AND ADJUSTABLE BRACES

 P2233 & P2234 PG. 40	 P2663-250 TO P2663-700 PG. 40	 P1075-8 PG. 40	 PCL150 TO PCL600 PG. 40	 P2491R-L TO P2500R-L PG. 41	 P2513 TO P2516 PG. 41	 P2513A TO P2516A PG. 41
 P2542 TO P2546 PG. 41	 P5663-300 TO P5663-750 PG. 41	 P2231 & P2232 PG. 42	 P2231A & P2232A PG. 42	 P1843 PG. 42	 P1354 PG. 42	 P2815 PG. 42

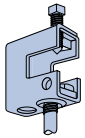
# UNISTRUT® UNISTRUT® PICTORIAL INDEX

## CANTILEVER BRACKETS AND ADJUSTABLE BRACES (CONT.)



P2815D  
PG. 42

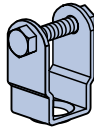
## BEAM CLAMPS



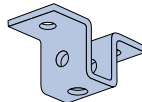
P2676  
PG. 43



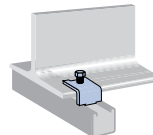
P2676 - SWIVEL NUT  
PG. 43



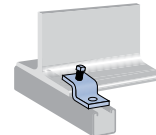
P2677  
PG. 43



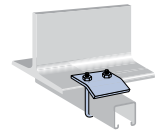
P2682  
PG. 43



P1386  
PG. 43



P1379  
PG. 43



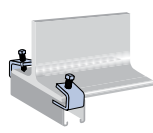
P2785 & P2786  
PG. 44



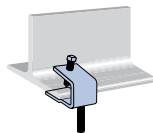
P1796  
PG. 44



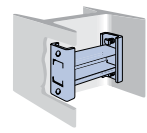
P1271  
PG. 44



P1272  
PG. 44



P1270  
PG. 44

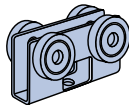


P3087  
PG. 44

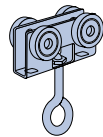
## TROLLEY ASSEMBLIES



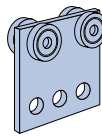
P2749 / P2749N  
PG. 45



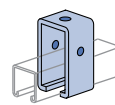
P2750 / P2750N  
PG. 45



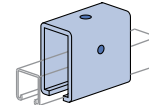
P2751 / P2751N  
PG. 45



P2950  
PG. 45

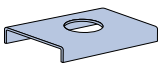


P1834 - TROLLEY SUPPORT  
PG. 45

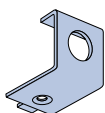


P1834A - TROLLEY SUPPORT  
PG. 45

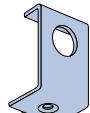
## ELECTRICAL AND FLUORESCENT FITTINGS



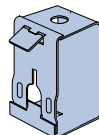
P2541  
SPACER CLEVIS  
PG. 46



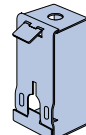
P2521  
CONDUIT END CONNECTOR  
PG. 46



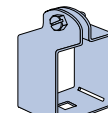
P5521  
CONDUIT END CONNECTOR  
PG. 46



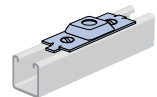
P2855  
PG. 46



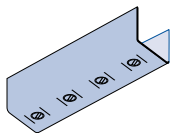
P2755  
PG. 46



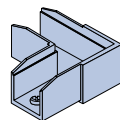
P2539  
FIXTURE HANGER FITTING  
PG. 46



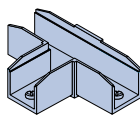
P2535  
CONDUIT HANGER FITTING  
PG. 46



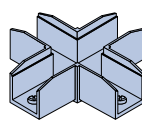
P2377 - SPLICE FITTING  
PG. 47



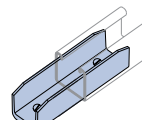
P2902 - TWO WAY  
PG. 47



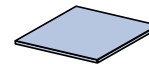
P2901 - THREE WAY  
PG. 47



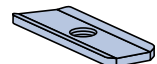
P2903 - FOUR WAY  
PG. 47



P2900 - ONE WAY  
PG. 47



P2552  
WIRE RETAINER [FIBRE]  
PG. 47



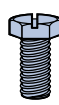
P3016  
TRUNKING NUTS  
PG. 48



CKS0615  
COUNTERSUNK HEAD SCREW  
PG. 48



P3116  
FIXTURE STUD NUT  
PG. 48



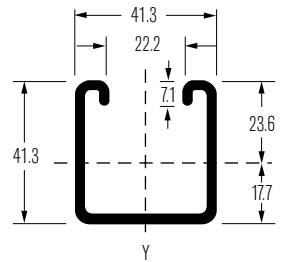
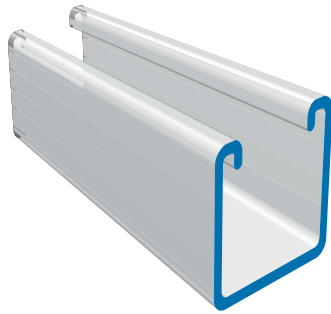
SHS0620  
SLOTTED HEX HEAD SCREW  
PG. 48

# UNISTRUT®

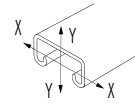
## P1000®

P1000®

PL/GB/HG/TG/SS



Mass: 2.59kg/m



A	-	330mm <sup>2</sup>
kg/m	-	2.59kg/m
I x-x	=	0.069 10 <sup>6</sup> mm <sup>4</sup>
Z x-x	=	2.920 10 <sup>3</sup> mm <sup>3</sup>
r x-x	=	14.5mm
I y-y	=	0.092 10 <sup>6</sup> mm <sup>4</sup>
Z y-y	=	4.451 10 <sup>3</sup> mm <sup>3</sup>
r y-y	=	16.7mm

L(mm)	Fmax(kN)	f	fmax(mm)	F(kN)
250	14.83		0.22	45.51
500	7.42		0.87	36.84
750	4.94		1.97	28.22
1000	3.71		3.50	21.44
1250	2.97		5.46	16.42
1500	2.47		7.87	13.20
1750	2.12 (2)		10.71	11.00
2000	1.85 (2)		13.99	9.35
2250	1.65 (2)		17.70	8.05
2500	1.48 (2)		21.85	7.01
2750	1.35 (2)		26.44	6.14
3000	1.24 (2)		31.47	-

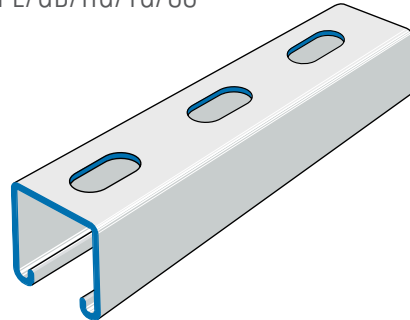
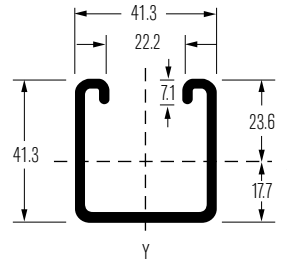
Part No.	Material Thickness	Length
P1000-PL	2.5mm	6m
P10003-PL	2.5mm	3m
P1000-GB	2.5mm	6m
P10003-GB	2.5mm	3m
P1000-HG	2.5mm	6m
P10003-HG	2.5mm	3m

Standard Length: 6m

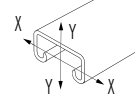
(2) See Note 2 Page 9

P1000T

PL/GB/HG/TG/SS

Slots 14 wide x 28 long  
at 50mm centres (approx.)

Mass: 2.32kg/m



A	-	295mm <sup>2</sup>
kg/m	-	2.32kg/m
I x-x	=	0.059 10 <sup>6</sup> mm <sup>4</sup>
Z x-x	=	2.698 10 <sup>3</sup> mm <sup>3</sup>
r x-x	=	14.1mm
I y-y	=	0.091 10 <sup>6</sup> mm <sup>4</sup>
Z y-y	=	4.423 10 <sup>3</sup> mm <sup>3</sup>
r y-y	=	17.6mm

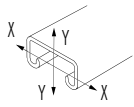
L(mm)	Fmax(kN)	f	fmax(mm)	F(kN)
250	13.35		0.20	40.96
500	6.68		0.78	33.16
750	4.49		1.77	25.40
1000	3.34		3.15	19.30
1250	2.67		4.91	14.78
1500	2.22		7.08	11.88
1750	1.91 (2)		9.64	9.90
2000	1.66 (2)		12.59	8.41
2250	1.48 (2)		15.93	7.24
2500	1.33 (2)		19.66	6.31
2750	1.21 (2)		23.80	5.53
3000	1.12 (2)		28.32	-

Part No.	Material Thickness	Length
P1000T-PL	2.5mm	6m
P10003T-PL	2.5mm	6m
P1000T-GB	2.5mm	6m
P10003T-GB	2.5mm	3m
P1000T-HG	2.5mm	6m
P10003T-HG	2.5mm	3m

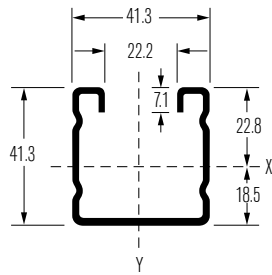
Standard Length: 6m

(2) See Note 2 Page 9

# UNISTRUT® P2000



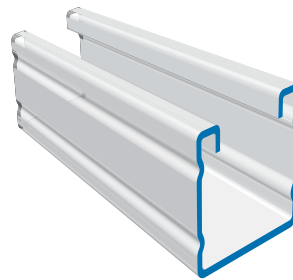
A - 228mm<sup>2</sup>  
 kg/m - 1.79 kg/m  
 I x-x = 0.052 10<sup>6</sup>mm<sup>4</sup>  
 Z x-x = 2.297 10<sup>3</sup>mm<sup>3</sup>  
 r x-x = 15.2mm  
 I y-y = 0.065 10<sup>6</sup>mm<sup>4</sup>  
 Z y-y = 3.143 10<sup>3</sup>mm<sup>3</sup>  
 r y-y = 16.9mm



Mass: 1.79kg/m

PL/GB/HG/TG/SS

P2000

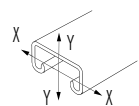


Part No.	Material Thickness	Length
P2000-PL	1.6mm	6m
P20003-PL	1.6mm	3m
P2000-GB	1.6mm	6m
P20003-GB	1.6mm	3m
P2000-HG	1.6mm	6m
P20003-HG	1.6mm	3m

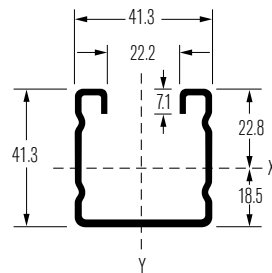
Standard Length: 6m

(2) See Note 2 Page 9

L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	10.30	0.20	32.92
500	6.06	0.94	26.55
750	4.04	2.12	19.21
1000	3.03	3.77	12.91
1250	2.42	5.89	9.03
1500	2.02	8.48	6.89
1750	1.73 (2)	11.54	5.56
2000	1.54 (2)	15.32	4.66
2250	1.35 (2)	19.07	4.02
2500	1.21 (2)	23.55	3.53
2750	1.10 (2)	28.49	3.14
3000	1.01 (2)	33.91	2.82



A - 206mm<sup>2</sup>  
 kg/m - 1.62kg/m  
 I x-x = 0.045 10<sup>6</sup>mm<sup>4</sup>  
 Z x-x = 2.136 10<sup>3</sup>mm<sup>3</sup>  
 r x-x = 14.7mm  
 I y-y = 0.065 10<sup>6</sup>mm<sup>4</sup>  
 Z y-y = 3.125 10<sup>3</sup>mm<sup>3</sup>  
 r y-y = 17.7mm

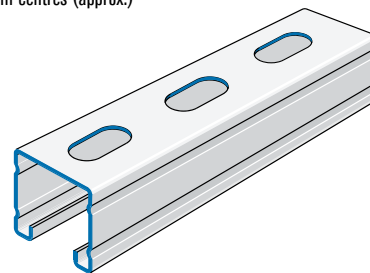


Mass: 1.62kg/m

Slots 11 wide x 28 long  
at 50mm centres (approx.)

PL/GB/HG/TG/SS

P2000T



Part No.	Material Thickness	Length
P2000T-PL	1.6mm	6m
P20003T-PL	1.6mm	3m
P2000T-GB	1.6mm	6m
P20003T-GB	1.6mm	3m
P2000T-HG	1.6mm	6m
P20003T-HG	1.6mm	3m

Standard Length: 6m

(2) See Note 2 Page 9

L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	9.27	0.18	29.63
500	5.45	0.85	23.90
750	3.64	1.91	17.29
1000	2.73	3.39	11.62
1250	2.18	5.30	8.13
1500	1.82	7.63	6.20
1750	1.56 (2)	10.39	5.00
2000	1.38 (2)	16.12	4.02
2250	1.22 (2)	17.16	3.62
2500	1.09 (2)	21.20	3.18
2750	0.99 (2)	25.64	2.83
3000	0.91 (2)	30.52	2.54

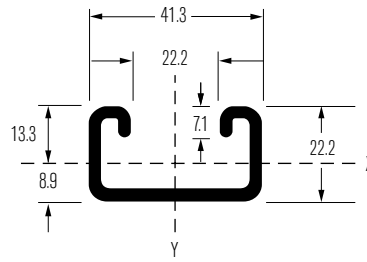
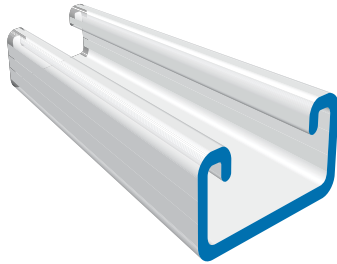


# UNISTRUT®

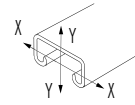
## P3300

P3300

PL/GB/HG/TG/SS



Mass: 1.82kg/m



A	-	232mm <sup>2</sup>
kg/m	-	1.82 kg/m
I <sub>x-x</sub>	=	0.013 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>x-x</sub>	=	0.999 10 <sup>3</sup> mm <sup>3</sup>
r <sub>x-x</sub>	=	7.6mm
I <sub>y-y</sub>	=	0.055 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>y-y</sub>	=	2.661 10 <sup>3</sup> mm <sup>3</sup>
r <sub>y-y</sub>	=	15.4mm

L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	5.52	0.42	34.88
500	2.76	1.68	27.76
750	1.84	3.79	19.42
1000	1.38	6.74	12.08
1250	1.10	10.53	7.90
1500	0.92	15.16	5.56
1750	0.79 (2)	20.63	-
2000	0.69 (2)	26.95	-
2250	0.61 (2)	34.11	-
2500	0.55 (2)	42.11	-
2750	0.50 (2)	50.95	-
3000	0.46 (2)	60.63	-

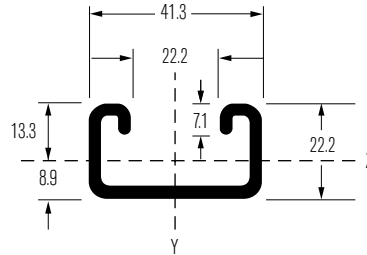
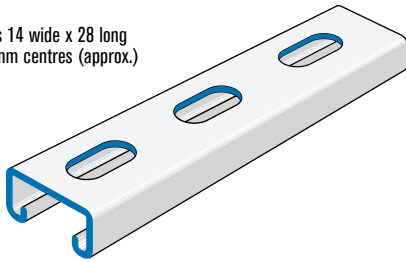
Part No.	Material Thickness	Length
P3300-PL	2.5mm	6m
P33003-PL	2.5mm	3m
P3300-GB	2.5mm	6m
P33003-GB	2.5mm	3m
P3300-HG	2.5mm	6m
P33003-HG	2.5mm	3m

Standard Length: 6m

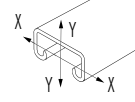
(2) See Note 2 Page 9

P3300T

PL/GB/HG/TG/SS

Slots 14 wide x 28 long  
at 50mm centres (approx.)

Mass: 1.55kg/m



A	-	197mm <sup>2</sup>
kg/m	-	1.55 kg/m
I <sub>x-x</sub>	=	0.011 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>x-x</sub>	=	0.912 10 <sup>3</sup> mm <sup>3</sup>
r <sub>x-x</sub>	=	7.5mm
I <sub>y-y</sub>	=	0.054 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>y-y</sub>	=	2.634 10 <sup>3</sup> mm <sup>3</sup>
r <sub>y-y</sub>	=	16.6mm

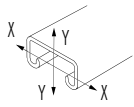
L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	4.97	0.38	31.39
500	2.48	1.51	24.98
750	1.66	3.41	17.48
1000	1.24	6.07	10.87
1250	0.99	9.48	7.11
1500	0.83	13.64	5.00
1750	0.71 (2)	18.57	-
2000	0.62 (2)	24.26	-
2250	0.55 (2)	30.70	-
2500	0.50 (2)	37.90	-
2750	0.45 (2)	45.86	-
3000	0.41 (2)	54.57	-

Part No.	Material Thickness	Length
P3300T-PL	2.5mm	6m
P33003T-PL	2.5mm	3m
P3300T-GB	2.5mm	6m
P33003T-GB	2.5mm	3m
P3300T-HG	2.5mm	6m
P33003T-HG	2.5mm	3m

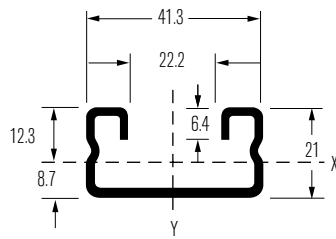
Standard Length: 6m

(2) See Note 2 Page 9

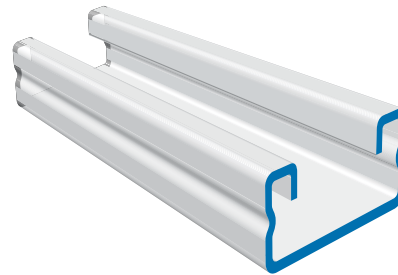
# UNISTRUT® P4000



A - 160mm<sup>2</sup>  
 kg/m - 1.26kg/m  
 I x-x = 0.010 10<sup>6</sup>mm<sup>4</sup>  
 Z x-x = 0.786 10<sup>3</sup>mm<sup>3</sup>  
 r x-x = 7.8mm  
 I y-y = 0.039 10<sup>6</sup>mm<sup>4</sup>  
 Z y-y = 1.880 10<sup>3</sup>mm<sup>3</sup>  
 r y-y = 15.6mm



Mass: 1.26kg/m



PL/GB/HG/TG/SS

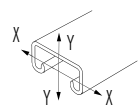
P4000

Part No.	Material Thickness	Length
P4000-PL	1.6mm	6m
P40003-PL	1.6mm	3m
P4000-GB	1.6mm	6m
P40003-GB	1.6mm	3m
P4000-HG	1.6mm	6m
P40003-HG	1.6mm	3m

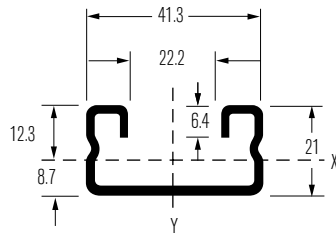
Standard Length: 6m

(2) See Note 2 Page 9

L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	4.20	0.44	22.36
500	2.10	1.77	16.30
750	1.40	3.98	10.46
1000	1.05	7.08	6.54
1250	0.84	11.07	4.54
1500	0.70 (2)	15.94	3.35
1750	0.60 (2)	21.69	-
2000	0.52 (2)	28.33	-
2250	0.47 (2)	35.86	-
2500	0.42 (2)	44.27	-
2750	0.38 (2)	53.57	-
3000	0.35 (2)	63.57	-

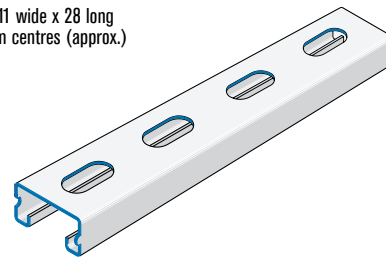


A - 138mm<sup>2</sup>  
 kg/m - 1.08kg/m  
 I x-x = 0.008 10<sup>6</sup>mm<sup>4</sup>  
 Z x-x = 0.729 10<sup>3</sup>mm<sup>3</sup>  
 r x-x = 7.6mm  
 I y-y = 0.038 10<sup>6</sup>mm<sup>4</sup>  
 Z y-y = 1.862 10<sup>3</sup>mm<sup>3</sup>  
 r y-y = 16.7mm



Mass: 1.08kg/m

Slots 11 wide x 28 long  
 at 50mm centres (approx.)



PL/GB/HG/TG/SS

P4000T

Part No.	Material Thickness	Length
P4000T-PL	1.6mm	6m
P40003T-PL	1.6mm	3m
P4000T-GB	1.6mm	6m
P40003T-GB	1.6mm	3m
P4000T-HG	1.6mm	6m
P40003T-HG	1.6mm	3m

Standard Length: 6m

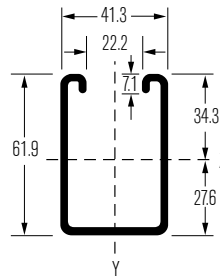
(2) See Note 2 Page 9

L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	3.78	0.40	20.12
500	1.89	1.59	14.67
750	1.26	3.58	9.41
1000	0.95	6.37	5.89
1250	0.76	9.96	4.09
1500	0.63 (2)	14.35	3.02
1750	0.54 (2)	19.52	-
2000	0.47 (2)	25.50	-
2250	0.42 (2)	32.27	-
2500	0.38 (2)	39.84	-
2750	0.34 (2)	48.21	-
3000	0.32 (2)	57.21	-

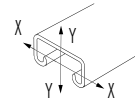
# UNISTRUT® P5500

## P5500

PL/GB/HG/TG/SS



Mass: 3.40kg/m



A	-	433mm <sup>2</sup>
kg/m	-	3.40 kg/m
I <sub>x-x</sub>	=	0.197 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>x-x</sub>	=	5.730 10 <sup>3</sup> mm <sup>3</sup>
r <sub>x-x</sub>	=	21.3mm
I <sub>y-y</sub>	=	0.131 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>y-y</sub>	=	6.328 10 <sup>3</sup> mm <sup>3</sup>
r <sub>y-y</sub>	=	17.4mm

L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	27.04	0.14	57.03
500	13.84	0.57	45.91
750	9.23	1.29	33.78
1000	6.92	2.29	23.85
1250	5.54	3.58	17.38
1500	4.61	5.15	13.76
1750	3.95 (2)	7.01	11.48
2000	3.46 (2)	9.16	9.98
2250	3.08 (2)	11.59	8.72
2500	2.77 (2)	14.31	7.81
2750	2.52 (2)	17.31	7.06
3000	2.31 (2)	20.61	6.43

Part No.	Material Thickness	Length
P5500-PL	2.5mm	6m
P55003-PL	2.5mm	3m
P5500-GB	2.5mm	6m
P55003-GB	2.5mm	3m
P5500-HG	2.5mm	6m
P55003-HG	2.5mm	3m

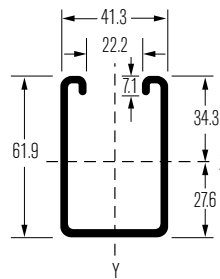
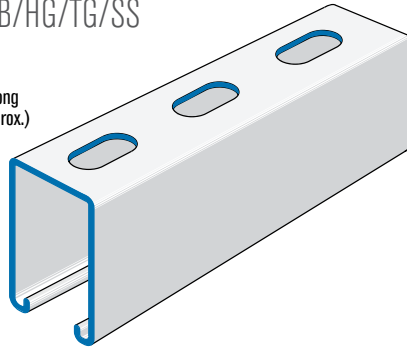
Standard Length: 6m

(2) See Note 2 Page 9

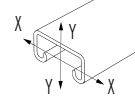
## P5500T

PL/GB/HG/TG/SS

Slots 14 wide x 28 long  
at 50mm centres (approx.)



Mass: 3.12kg/m



A	-	398mm <sup>2</sup>
kg/m	-	3.12kg/m
I <sub>x-x</sub>	=	0.170 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>x-x</sub>	=	5.322 10 <sup>3</sup> mm <sup>3</sup>
r <sub>x-x</sub>	=	20.7mm
I <sub>y-y</sub>	=	0.130 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>y-y</sub>	=	6.300 10 <sup>3</sup> mm <sup>3</sup>
r <sub>y-y</sub>	=	18.1mm

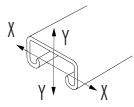
L(mm)	Fmax(kN)	fmax(mm)	F(kN)
250	24.34	0.13	51.33
500	12.46	0.51	41.32
750	8.31	1.16	30.40
1000	6.23	2.06	21.47
1250	4.99	3.22	15.64
1500	4.15	4.64	12.38
1750	3.56 (2)	6.31	10.33
2000	3.11 (2)	8.24	8.90
2250	2.77 (2)	10.43	7.85
2500	2.49 (2)	12.88	7.03
2750	2.27 (2)	15.58	6.35
3000	2.08 (2)	18.55	5.79

Part No.	Material Thickness	Length
P5500T-PL	2.5mm	6m
P55003T-PL	2.5mm	3m
P5500T-GB	2.5mm	6m
P55003T-GB	2.5mm	3m
P5500T-HG	2.5mm	6m
P55003T-HG	2.5mm	3m

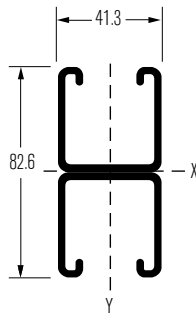
Standard Length: 6m

(2) See Note 2 Page 9

# UNISTRUT® COMBINATION STRUTS



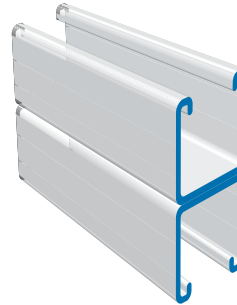
A - 660mm<sup>2</sup>  
 kg/m - 5.18kg/m  
 I<sub>x-x</sub> = 0.318 10<sup>6</sup>mm<sup>4</sup>  
 Z<sub>x-x</sub> = 7.711 10<sup>3</sup>mm<sup>3</sup>  
 r<sub>x-x</sub> = 22.0mm  
 I<sub>y-y</sub> = 0.184 10<sup>6</sup>mm<sup>4</sup>  
 Z<sub>y-y</sub> = 8.902 10<sup>3</sup>mm<sup>3</sup>  
 r<sub>y-y</sub> = 16.7mm



Mass: 5.18kg/m

PL/GB/HG

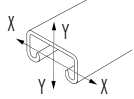
P1001



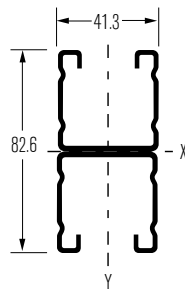
Part No.	Material Thickness	Length
P1001-PL	2.5mm	6m
P1001-GB	2.5mm	6m
P1001-HG	2.5mm	6m

L(mm)	F <sub>max</sub> (kN)	f	f <sub>max</sub> (mm)	F(kN)
250	25.64 (1)		0.08	97.71
500	19.58		0.50	94.09
750	13.06*		1.13	88.35
1000	9.79		2.00	80.90
1250	7.83		3.13	72.23
1500	6.53		4.50	62.89
1750	5.60 (2)		6.13	53.40
2000	4.90 (2)		8.01	44.21
2250	4.35 (2)		10.13	35.62
2500	3.92 (2)		12.51	28.85
2750	3.56 (2)		15.14	23.85
3000	3.26 (2)		18.02	20.04

\*Limited by weldshear  
 (1) See Note 1 Page 9  
 (2) See Note 2 Page 9



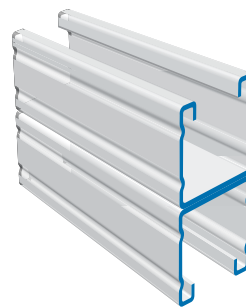
A - 462mm<sup>2</sup>  
 kg/m - 3.58 kg/m  
 I<sub>x-x</sub> = 0.261 10<sup>6</sup>mm<sup>4</sup>  
 Z<sub>x-x</sub> = 6.321 10<sup>3</sup>mm<sup>3</sup>  
 r<sub>x-x</sub> = 23.8mm  
 I<sub>y-y</sub> = 0.131 10<sup>6</sup>mm<sup>4</sup>  
 Z<sub>y-y</sub> = 6.367 10<sup>3</sup>mm<sup>3</sup>  
 r<sub>y-y</sub> = 16.9mm



Mass: 3.58kg/m

PL/GB/HG

P2001



Part No.	Material Thickness	Length
P2001-PL	1.6mm	6m
P2001-GB	1.6mm	6m
P2001-HG	1.6mm	6m

L(mm)	F <sub>max</sub> (kN)	f	f <sub>max</sub> (mm)	F(kN)
250	11.78 (1)		0.05	70.84
500	11.78		0.37	68.18
750	11.09		1.17	63.96
1000	8.32		2.07	58.50
1250	6.65		3.24	52.15
1500	5.54		4.67	45.32
1750	4.75 (2)		6.35	38.39
2000	3.48 (2)		4.63	31.77
2250	3.70 (2)		10.50	25.48
2500	3.33 (2)		12.96	20.64
2750	3.02 (2)		15.68	17.06
3000	2.77 (2)		18.66	14.33

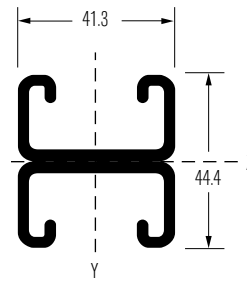
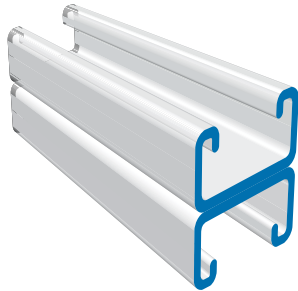
(1) See Note 1 Page 9  
 (2) See Note 2 Page 9



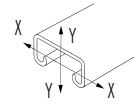
# UNISTRUT® COMBINATION STRUTS

## P3301

### PL/GB/HG



Mass: 3.64kg/m



A	-	465mm <sup>2</sup>
kg/m	-	3.64kg/m
I <sub>x-x</sub>	=	0.063 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>x-x</sub>	=	2.841 10 <sup>3</sup> mm <sup>3</sup>
r <sub>x-x</sub>	=	11.6mm
I <sub>y-y</sub>	=	0.110 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>y-y</sub>	=	5.329 10 <sup>3</sup> mm <sup>3</sup>
r <sub>y-y</sub>	=	15.4mm

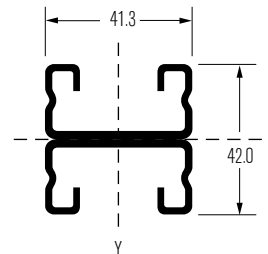
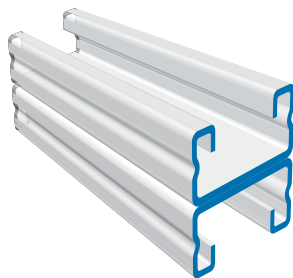
L(mm)	Fmax(kN)	f	fmax(mm)	F(kN)
250	15.58		0.25	73.20
500	7.79		1.01	67.32
750	5.19		2.26	58.55
1000	3.90		4.02	48.16
1250	3.12		6.28	37.47
1500	2.60		9.05	27.50
1750	2.23 (2)		12.32	20.21
2000	1.95 (2)		16.09	15.47
2250	1.73 (2)		20.36	12.22
2500	1.56 (2)		25.13	-
2750	1.42 (2)		30.41	-
3000	1.30 (2)		36.19	-

Part No.	Material Thickness	Length
P3301-PL	2.5mm	6m
P3301-GB	2.5mm	6m
P3301-HG	2.5mm	6m

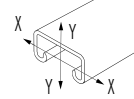
(2) See Note 2 Page 9

## P4001

### PL/GB/HG



Mass: 2.52kg/m



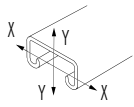
A	-	320mm <sup>2</sup>
kg/m	-	2.52 kg/m
I <sub>x-x</sub>	=	0.044 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>x-x</sub>	=	2.082 10 <sup>3</sup> mm <sup>3</sup>
r <sub>x-x</sub>	=	11.7mm
I <sub>y-y</sub>	=	0.078 10 <sup>6</sup> mm <sup>4</sup>
Z <sub>y-y</sub>	=	3.764 10 <sup>3</sup> mm <sup>3</sup>
r <sub>y-y</sub>	=	15.6mm

L(mm)	Fmax(kN)	f	fmax(mm)	F(kN)
250	10.39		0.24	49.05
500	5.55		1.03	45.24
750	3.70		2.33	39.54
1000	2.78		4.14	32.74
1250	2.22		6.46	25.69
1500	1.85 (2)		9.31	19.06
1750	1.59 (2)		12.67	14.00
2000	1.39 (2)		16.54	10.72
2250	1.23 (2)		20.94	8.47
2500	1.11 (2)		25.85	-
2750	1.01 (2)		31.28	-
3000	0.93 (2)		37.22	-

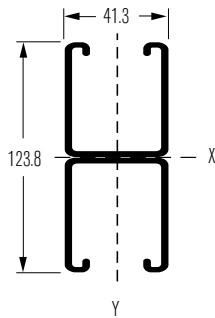
Part No.	Material Thickness	Length
P4001-PL	1.6mm	6m
P4001-GB	1.6mm	6m
P4001-HG	1.6mm	6m

(2) See Note 2 Page 9

# UNISTRUT® COMBINATION STRUTS



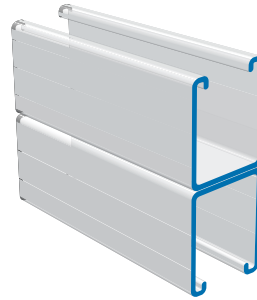
- A - 867mm<sup>2</sup>
- kg/m - 6.80kg/m
- I x-x = 1.052 10<sup>6</sup>mm<sup>4</sup>
- Z x-x = 16.990 10<sup>3</sup>mm<sup>3</sup>
- r x-x = 34.8mm
- I y-y = 0.261 10<sup>6</sup>mm<sup>4</sup>
- Z y-y = 12.662 10<sup>3</sup>mm<sup>3</sup>
- r y-y = 17.4mm



Mass: 6.80kg/m

PL/GB/HG

P5501

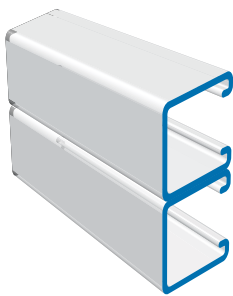


Part No.	Material Thickness	Length
P5501-PL	2.5mm	6m
P5501-GB	2.5mm	6m
P5501-HG	2.5mm	6m

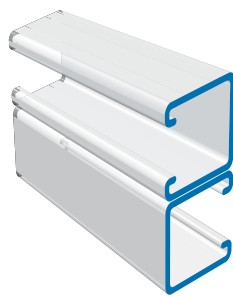
L(mm)	F <sub>max</sub> (kN)	f	f <sub>max</sub> (mm)	F(kN)
250	2704 (1)		0.03	122.16
500	2704 (1)		0.21	118.17
750	2704		0.71	111.82
1000	20.50		1.27	103.50
1250	16.40		1.98	93.71
1500	13.67		2.86	82.98
1750	11.72		3.89	71.88
2000	10.25		5.08	60.91
2250	9.11 (2)		6.43	50.48
2500	8.20 (2)		7.93	41.04
2750	7.46 (2)		9.60	33.92
3000	6.83 (2)		11.42	28.50

(1) See Note 1 Page 9  
(2) See Note 2 Page 9

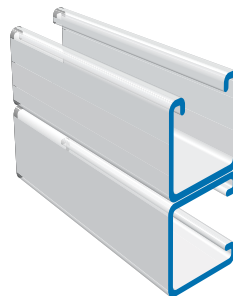
## OPTIONAL COMBINATIONS



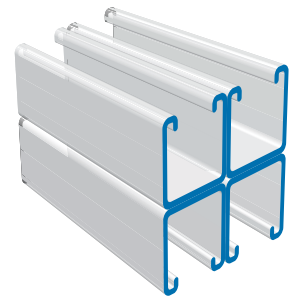
P1001A



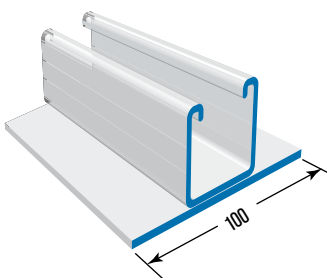
P1001B



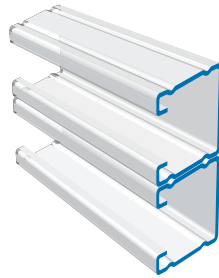
P1001C



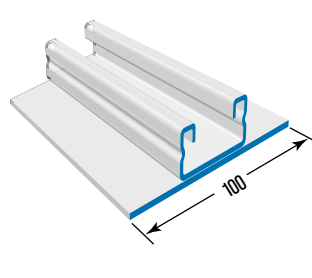
P1001C 41



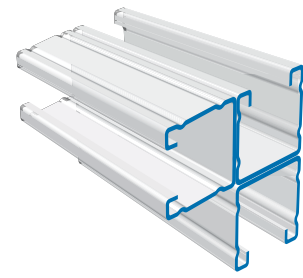
P1003



P2001A



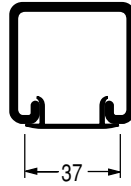
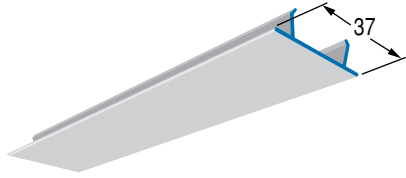
P4002-1



P2001C3

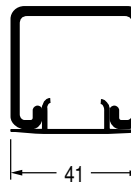
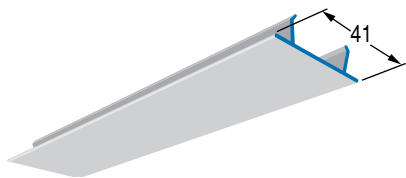
# UNISTRUT® STRUT ACCESSORIES

## P1184 – PLASTIC CLOSURE STRIP (UV STABILISED)



**Standard Length:** 3m  
**Mass:** 0.11kg/m

## P1184A – ALUMINUM CLOSURE STRIP



**Standard Length:** 3m  
**Mass:** 0.18kg/m

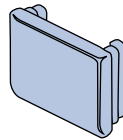
## STRUT END CAPS – PLASTIC, UV STABILISED

### P2240



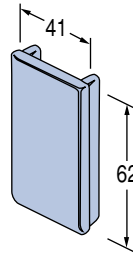
For P1000® & P2000 Strut  
**Mass:** 0.70kg/100

### P4240

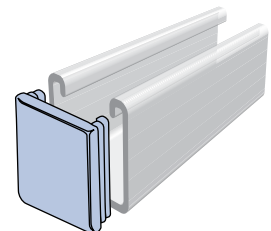


For P3300 & P4000 Strut  
**Mass:** 0.40kg/100

### P5580

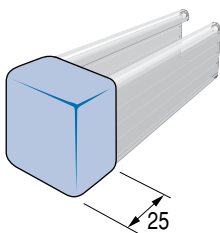


For P5500 Strut  
**Mass:** 1.2kg/100



Typical Installation

## P2860-10 – STRUT END CAPS – PLASTIC



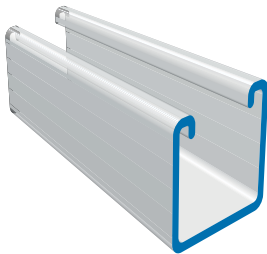
Fits P1000® & P2000 Strut  
**Mass:** 1.54kg/100

**Note:** Caps struts provide a protective covering on protruding Struts to guard against personal injury or damage to clothing. They slip easily over the ends of strut.  
Available: White or black only.

# UNISTRUT® STRUT - SPECIAL METALS

## STAINLESS 316 STRUT

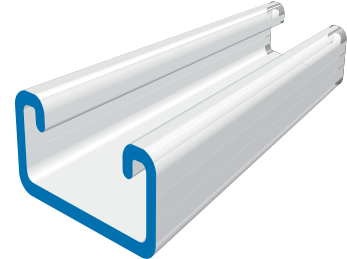
### P1000-SS



**P1000®**  
41.3 x 41.3  
2.5mm thick

Part No.	Material Length	Material Thickness	Mass kg/m
P1000-SS	6m	2.5mm	2.76
P3300-SS	6m	2.5mm	1.96

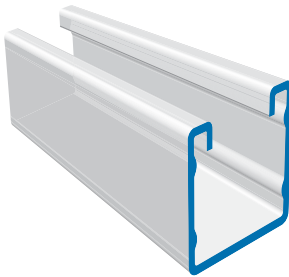
### P3300-SS



**P3300**  
41.3 x 22.2  
2.5mm thick

## ALUMINIUM STRUT

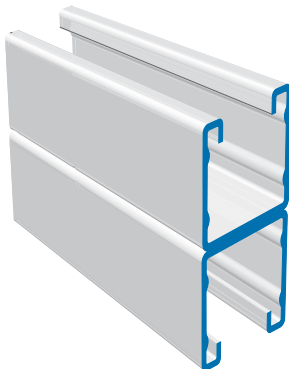
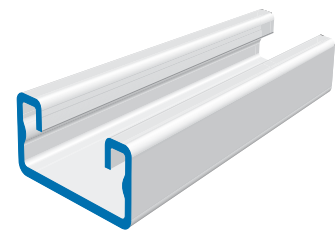
### P2000-AL



**P2000**  
41.3 x 41.3

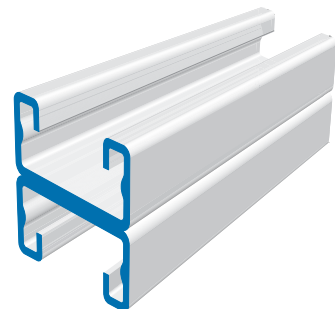
Part No.	Material Length	Mass kg/m
P2000-AL	6m	0.77mm
P4000-AL	6m	0.58mm

**P4000**  
41.3 x 20.6



**P2001**  
41.3 x 82.6

**P4001**  
41.3 x 41.3



## LOADING DATA

Approximate beam load capacities for Strut sections may be obtained from the engineering data sections in this catalogue. Multiply data by the following percentages:

Material	Load Factor
Extruded Aluminium	33%

Nut pullout strength and resistance to slip for sections may be obtained from the engineering data sections in this catalogue. Multiply data by the following percentages:

Material	Slip Percentage Factor	Pullout Percentage Factor
Extruded Aluminium	75%	50%

UNISTRUT® FITTINGS: Some fittings, as shown in this catalogue can be supplied in aluminium on special order.



# UNISTRUT® BEAM AND COLUMN LOADS

## Notes to Table

Note 1: Loads are governed by shear or web crippling.

Note 2: For uniform beam working loads asymmetric sections are required to be adequately braced to prevent rotation and twist.

The table should be read in conjunction with 'Notes on derivation of Structural Data' page 9, and 'How to use Load Tables' pages 53-54.

## BEAMS & COLUMNS - P1000® STRUT & COMBINATION

Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN	Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN
250	P1000	14.83	0.22	45.51	1750	P1000	2.12 (2)	10.71	11.00
	P1001	25.64 (1)	0.08	97.71		P1001	5.60 (2)	6.13	53.40
	P1001C41	25.64 (1)	0.04	195.70		P1001C41	12.09	6.13	123.36
	P1003	17.46	0.15	78.01		P1003	2.49	7.25	37.16
500	P1000	7.42	0.87	36.84	2000	P1000	1.85 (2)	13.99	9.35
	P1001	19.58	0.50	94.09		P1001	4.90 (2)	8.01	44.21
	P1001C41	25.64	0.30	188.76		P1001C41	10.58	8.01	109.59
	P1003	8.73	0.59	74.48		P1003	2.18	9.48	29.41
750	P1000	4.94	1.97	28.22	2250	P1000	1.65 (2)	17.70	8.05
	P1001	13.06	1.13	88.35		P1001	4.35 (2)	10.13	35.62
	P1001C41	25.64	1.02	178.34		P1001C41	9.41	10.13	96.41
	P1003	5.82	1.33	68.94		P1003	1.94	11.99	23.24
1000	P1000	3.71	3.50	21.44	2500	P1000	1.48 (2)	21.85	7.01
	P1001	9.79	2.00	80.90		P1001	3.92 (2)	12.51	28.85
	P1001C41	21.16	2.00	165.65		P1001C41	8.47 (2)	12.51	83.93
	P1003	4.36	2.37	61.87		P1003	1.75	14.81	18.82
1250	P1000	2.97	5.46	16.42	2750	P1000	1.35 (2)	26.44	6.14
	P1001	7.83	3.13	72.23		P1001	3.56 (2)	15.14	23.85
	P1001C41	16.93	3.13	151.78		P1001C41	7.70 (2)	15.13	72.11
	P1003	3.49	3.70	53.84		P1003	3.56	15.14	23.85
1500	P1000	2.47	7.87	13.20	3000	P1000	1.24 (2)	31.47	0.00
	P1001	6.53	4.50	62.89		P1001	3.26 (2)	18.02	20.04
	P1001C41	14.11	4.50	137.52		P1001C41	7.05 (2)	18.01	62.18
	P1003	2.91	5.33	45.43		P1003	1.45 (2)	21.32	0.00

## ELEMENTS OF SECTION - P1000® STRUT & COMBINATION

Part No.	Mass kg/m	Area of Section mm <sup>2</sup>	Axis XX			Axis YY		
			I 10 <sup>6</sup> mm <sup>4</sup>	Z 10 <sup>3</sup> mm <sup>3</sup>	r mm	I 10 <sup>6</sup> mm <sup>4</sup>	Z 10 <sup>3</sup> mm <sup>3</sup>	r mm
P1000	2.59	330	0.069	2.920	14.5	0.092	4.451	16.7
P1001	5.18	660	0.318	7.711	22.0	0.184	8.902	16.7
P1001C41	10.36	1322	0.688	16.670	22.8	0.931	22.546	26.5
P1003	4.50	580	0.120	3.771	14.4	0.300	6.007	22.8

### Note:

I - Moment of Inertia

Z - Section Modulus

r - Radius of Gyration

For Slip and Pullout Performance details refer to this Tab Section. (page 49)

# UNISTRUT® BEAM AND COLUMN LOADS

## BEAM & COLUMN - P2000 STRUT & COMBINATION

Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN	Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN
250	P2000	10.30	0.20	32.92	1750	P2000	1.73 (2)	11.54	5.56
	P2001	11.78 (1)	0.05	70.84		P2001	4.75 (2)	6.35	38.39
	P2001C3	11.77 (1)	0.03	106.31		P2001C3	6.24 (2)	5.53	59.16
500	P2000	6.06	0.94	26.55	2000	P2000	1.27 (2)	8.41	4.66
	P2001	11.78	0.37	68.18		P2001	3.48 (2)	4.63	31.77
	P2001C3	11.77 (1)	0.24	101.69		P2001C3	4.01 (2)	3.97	58.18
750	P2000	4.04	2.12	19.21	2250	P2000	1.35 (2)	19.07	4.02
	P2001	11.09	1.17	63.96		P2001	3.70 (2)	10.50	25.48
	P2001C3	11.77 (2)	0.24	94.74		P2001C3	4.85 (2)	9.13	43.10
1000	P2000	3.03	3.77	12.91	2500	P2000	1.21 (2)	23.55	3.53
	P2001	8.32	2.07	58.50		P2001	3.33 (2)	12.96	20.64
	P2001C3	10.91	1.80	86.31		P2001C3	4.37 (2)	11.28	36.13
1250	P2000	2.42	5.89	9.03	2750	P2000	1.10 (2)	28.49	3.14
	P2001	6.65	3.24	52.15		P2001	3.02 (2)	15.68	17.06
	P2001C3	8.73 (2)	2.82	77.21		P2001C3	3.97 (2)	13.64	30.72
1500	P2000	2.02	8.48	6.89	3000	P2000	1.01 (2)	33.91	2.82
	P2001	5.54	4.67	45.32		P2001	2.77 (2)	18.66	14.33
	P2001C3	7.28 (2)	4.06	68.03		P2001C3	3.64 (2)	16.24	26.44

**Note:**

The table should be read in conjunction with 'Notes on Derivation of Structural Data' (page 9) and 'How to use Load Tables' (pages 53-54) in this Tab Section.

## ELEMENTS OF SECTION - P2000 STRUT & COMBINATION

Part No.	Mass kg/m	Area of Section mm <sup>2</sup>	Axis XX			Axis YY		
			I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm	I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm
P2000	1.79	228	0.052	2.297	15.2	0.065	3.143	16.9
P2001	3.58	462	0.261	6.321	23.8	0.131	6.367	16.9
P2001C3	5.37	695	0.394	8.302	23.8	0.418	8.410	24.5

**Note:**

I - Moment of Inertia

Z - Section Modulus

r - Radius of Gyration

For Slip and Pullout Performance details refer to this Tab Section. (page 49)

# UNISTRUT® BEAM AND COLUMN LOADS

## BEAMS & COLUMNS - P3300 STRUT & COMBINATION

Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN	Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN
250	P3300	5.52	0.42	34.88	1750	P3300	0.79 (2)	20.63	0.00
	P3301	15.58	0.25	73.20		P3301	2.23 (2)	12.32	20.21
500	P3300	2.76	1.68	27.76	2000	P3300	0.69 (2)	26.95	0.00
	P3301	7.79	1.01	67.32		P3301	1.95 (2)	16.09	15.47
750	P3300	1.84	3.79	19.42	2250	P3300	0.61 (2)	34.11	0.00
	P3301	5.19	2.26	58.55		P3301	1.73 (2)	20.36	12.22
1000	P3300	1.38	6.74	12.08	2500	P3300	0.55 (2)	42.11	0.00
	P3301	3.90	4.02	48.16		P3301	1.56 (2)	25.13	0.00
1250	P3300	1.10	10.53	7.90	2750	P3300	0.50 (2)	50.95	0.00
	P3301	3.12	6.28	37.47		P3301	1.42 (2)	30.41	0.00
1500	P3300	0.92	15.16	5.56	3000	P3300	0.46 (2)	60.63	0.00
	P3301	2.60	9.05	27.50		P3301	1.30 (2)	36.19	0.00

**Note:**

The table should be read in conjunction with 'Notes on Derivation of Structural Data' (page 9) and 'How to use Load Tables' (pages 53-54) in this Tab Section.

## ELEMENTS OF SECTION - P3300 STRUT & COMBINATION

Part No.	Mass kg/m	Area of Section mm <sup>2</sup>	Axis XX			Axis YY		
			I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm	I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm
P3300	1.82	232	0.013	0.999	7.6	0.055	2.661	15.4
P3301	3.64	465	0.063	2.841	11.6	0.110	5.329	15.4

**Note:**

I - Moment of Inertia

Z - Section Modulus

r - Radius of Gyration

For Slip and Pullout Performance details refer to this Tab Section. (page 49)

# UNISTRUT® BEAM AND COLUMN LOADS

## BEAM & COLUMN - P4000 STRUT & COMBINATION

Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN	Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN
250	P4000	4.20	0.44	22.36	1750	P4000	0.60 (2)	21.69	0.00
	P4001	10.39	0.24	49.05		P4001	1.59 (2)	12.67	14.00
	P4003	11.16 (1)	0.06	73.53		P4003	4.30 (2)	8.35	26.45
	P4002-1	4.71	0.25	51.41		P4002-1	0.67	12.10	0.00
500	P4000	2.10	1.77	16.30	2000	P4000	0.52 (2)	28.33	0.00
	P4001	5.55	1.03	45.24		P4001	1.39 (2)	16.54	10.72
	P4003	11.16	0.51	68.80		P4003	3.76 (2)	10.90	20.25
	P4002-1	2.35	0.99	42.12		P4002-1	0.59	15.81	0.00
750	P4000	1.40	3.98	10.46	2250	P4000	0.47 (2)	35.86	0.00
	P4001	3.70	2.33	39.54		P4001	1.23 (2)	20.94	8.47
	P4003	10.02	1.53	62.23		P4003	3.34 (2)	13.80	16.01
	P4002-1	2.35	0.99	42.12		P4002-1	0.52	20.01	0.00
1000	P4000	1.05	7.08	6.54	2500	P4000	0.42 (2)	44.27	0.00
	P4001	2.78	4.14	32.74		P4001	1.11 (2)	25.85	0.00
	P4003	7.52	2.73	53.62		P4003	3.01 (2)	17.04	12.97
	P4002-1	1.18	3.95	18.99		P4002-1	0.47	24.70	0.00
1250	P4000	0.84	11.07	4.54	2750	P4000	0.38 (2)	53.57	0.00
	P4001	2.22	6.46	26.69		P4001	1.01 (2)	31.28	0.00
	P4003	6.01	4.26	44.23		P4003	2.73 (2)	20.61	0.00
	P4002-1	0.94	6.18	12.16		P4002-1	0.43	29.89	0.00
1500	P4000	0.70 (2)	15.94	3.35	3000	P4000	0.35 (2)	63.57	0.00
	P4001	1.85 (2)	9.31	19.06		P4001	0.93 (2)	37.22	0.00
	P4003	5.01	6.13	34.96		P4003	2.51 (2)	24.53	0.00
	P4002-1	0.78	8.89	0.00		P4002-1	0.39	35.57	0.00

**Note:**

The table should be read in conjunction with 'Notes on Derivation of Structural Data' (page 9) and 'How to use Load Tables' (pages 53-54) in this Tab Section.

## ELEMENTS OF SECTION - P4000 STRUT & COMBINATION

Part No.	Mass kg/m	Area of Section mm <sup>2</sup>	Axis XX			Axis YY		
			I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm	I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm
P4000	1.26	160	0.010	0.786	7.8	0.039	1.880	15.6
P4001	2.52	320	0.044	2.082	11.7	0.078	3.764	15.6
P4002-1	3.22	410	0.019	1.036	6.9	0.247	4.946	24.6
P4003	3.78	480	0.180	5.636	19.3	0.083	4.002	13.1

**Note:**

I - Moment of Inertia  
Z - Section Modulus  
r - Radius of Gyration  
For Slip and Pullout Performance details refer to this Tab Section. (page 49)

# UNISTRUT® BEAM AND COLUMN LOADS

## BEAM & COLUMN - P5500 STRUT & COMBINATION

Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN	Beam Span or Column Unsupported Height mm	Section Number	Uniform Beam Working Load kN	Deflection at Uniform Working Load mm	Max. Loading of Column kN
250	P5500	2704	0.14	57.03	2250	P5500	3.08 (2)	11.59	8.72
	P5501	2704 (1)	0.03	122.16		P5501	9.11 (2)	6.43	50.48
500	P5500	13.84	0.57	45.91	2500	P5500	2.77 (2)	14.31	7.81
	P5501	2704 (1)	0.21	118.17		P5501	8.20 (2)	7.93	41.04
750	P5500	9.23	1.29	33.78	2750	P5500	2.52 (2)	17.31	7.06
	P5501	2704	0.71	111.82		P5501	7.46 (2)	9.60	33.92
1000	P5500	6.92	2.29	23.85	3000	P5500	2.31 (2)	20.61	6.43
	P5501	20.50	1.27	103.50		P5501	6.83 (2)	11.42	28.50
1250	P5500	5.54	3.58	17.38	3250	P5500	2.13 (2)	24.18	5.89
	P5501	16.40	1.98	93.71		P5501	6.31 (2)	13.41	24.28
1500	P5500	4.61	5.15	13.76	3500	P5500	1.98 (2)	28.05	0.00
	P5501	13.67	2.86	82.98		P5501	5.86 (2)	15.55	0.00
1750	P5500	3.95 (2)	7.01	11.48	3750	P5500	1.85 (2)	32.20	0.00
	P5501	11.72	3.89	71.88		P5501	5.47 (2)	17.85	0.00
2000	P5500	3.46 (2)	9.16	9.89	4000	P5500	1.73 (2)	36.63	0.00
	P5501	10.25	5.08	60.91		P5501	5.13 (2)	20.31	0.00

**Note:**

The table should be read in conjunction with 'Notes on Derivation of Structural Data' (page 9) and 'How to use Load Tables' (pages 53-54) in this Tab Section.

## ELEMENTS OF SECTION - P5500 STRUT & COMBINATION

Part No.	Mass kg/m	Area of Section mm <sup>2</sup>	Axis XX			Axis YY		
			I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm	I 106mm <sup>4</sup>	Z 103mm <sup>3</sup>	r mm
P5500	3.43	232	0.197	5.730	21.3	0.131	2.661	17.4
P5501	6.86	465	1.052	16.990	34.8	0.261	5.329	17.4

**Note:**

I - Moment of Inertia

Z - Section Modulus

r - Radius of Gyration

For Slip and Pullout Performance details refer to this Tab Section. (page 49)



# UNISTRUT® CONCRETE INSERTS

Concrete Inserts are manufactured from standard Unistrut® Strut sections. They may be installed in floors, walls or concealed for the support of all kinds of piping, conduit, cable and other industrial equipment. Unistrut® nuts can be inserted anywhere along the insert providing a means of attaching fittings or hanger rods.

## FIXING METHODS

Note: The lug protruding from the back of the insert are designed to provide positive anchorage in the concrete. Distortion of the lugs is not recommended as it will severely reduce the performance of the insert.

**Form Ply:** Unistrut® P1000CI Concrete Inserts are placed face down on the form at the required location and fixed up using 2.8mm x 75mm long flat head nails through holes provided.

The point of the nail should be bent over to prevent lifting should the vibrator make contact.

**Note:** For P3300CI Concrete Insert, a 50mm long nail is recommended.

**Steel Forms:** Concrete Inserts are either track welded or wired to reinforcement.

## FILLER METHODS

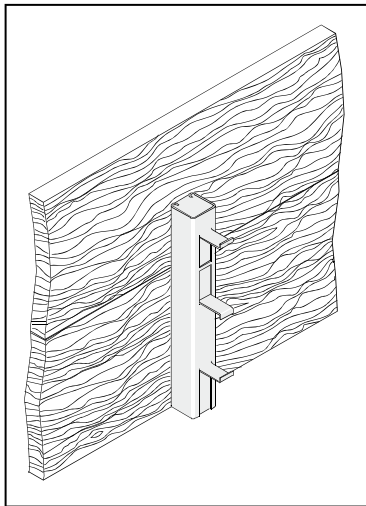
Unistrut® Concrete Inserts are supplied foam filled to prevent the ingress of grout and cement.

## FINISHES

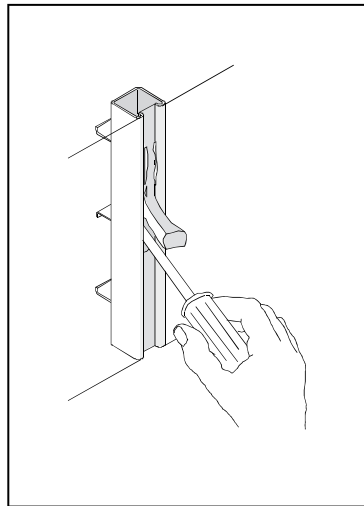
Unistrut® Concrete Inserts are available in the following styles and finishes - P1000® & P3300 in Hot Dipped Galvanised.

**Note:** Test results are available on request.

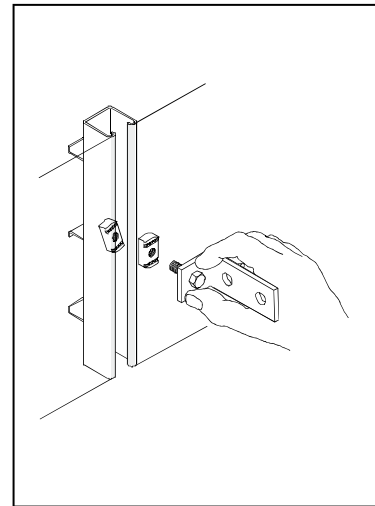
## INSTALLING



1. INSTALL CONCRETE INSERT.



2. SCRAPE OUT FILLER.



3. INSERT STRUT NUT AND ATTACH FITTING.

The Unistrut® concrete insert is firmly fixed to the concrete side of the form before pouring. When the forms are removed, the insert is ready for use. Brackets and other components can be attached at any point of the continuous entry Strut.

# UNISTRUT® CONCRETE INSERTS

**Standard Length:** 3m or 6m

**Mass:** 2.80kg/m

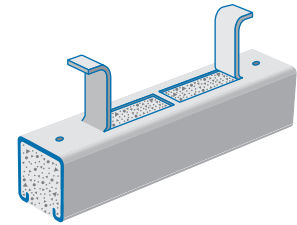
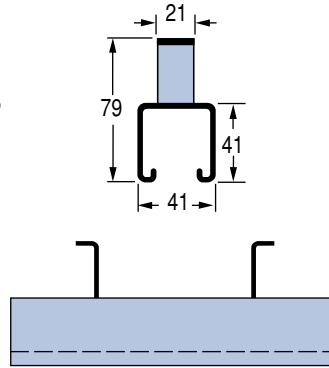
**Finish:** Hot Dipped Galvanised.

**Loading Data:** The support capacity of any concrete insert depends largely on the strength of the concrete used. Therefore, Atkore and Unistrut® can not guarantee any particular load.

**Recommended Pullout Loading\*:** Inserts 300mm and over 8.83kN per 300mm.

**Factor of Safety:** Approximately 3  
Design load based on 34mpa concrete

**NOTE: Exercise care during installation - Do not bend lugs.  
Lugs at 100mm centres**



## P1000CI

**Standard Length:** 3m or 6m

**Mass:** 1.94kg/m

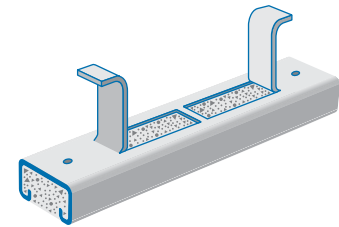
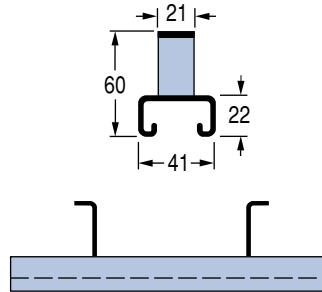
**Finish:** Hot Dipped Galvanised.

**Loading Data:** The support capacity of any concrete insert depends largely on the strength of the concrete used. Therefore, Atkore and Unistrut® can not guarantee any particular load.

**Recommended Pullout Loading\*:** Inserts 300mm and over 6.37kN per 300mm.

**Factor of Safety:** Approximately 3  
Design load based on 34mpa concrete

**NOTE: Exercise care during installation - Do not bend lugs.  
Lugs at 100mm centres**



## P3300CI

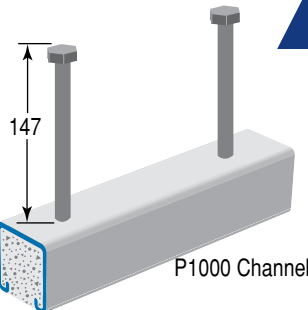
**Standard Length:** 300mm

**Finish:** Hot Dipped Galvanised.

**Loading Data:** Because the support capacity of any Concrete Insert depends largely on the strength of the concrete used, Atkore and Unistrut® can not guarantee any particular load.

**Recommended Pullout Loading\*:** 22kN per 300mm.

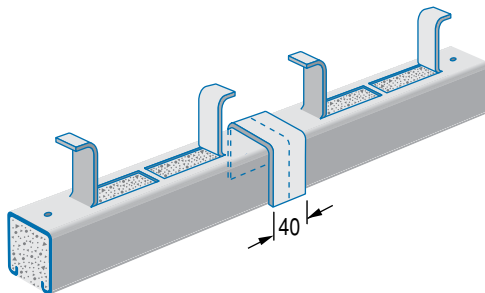
**Recommended Loading\*:** The recommended design load is based on using two P1010 nuts at no less than 75mm O.C. and no closer than 50mm to either end of the insert. The distance between the insert centerline and the concrete edge must be a minimum of 75mm.



## P3753 HEAVY DUTY INSERT

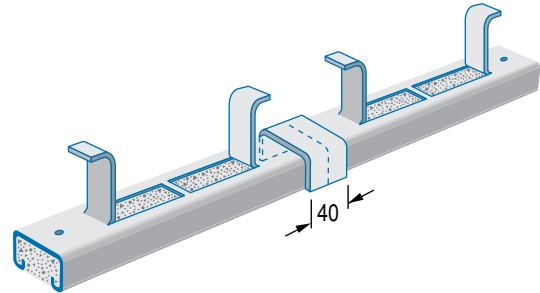
## P1663 CI JOINT COVER

**Mass:** 4.5kg/100



## P4663 CI JOINT COVER

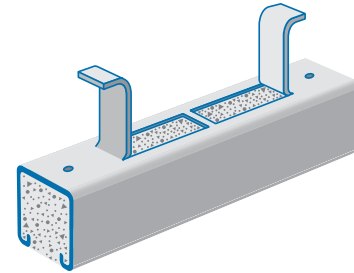
**Mass:** 2.7kg/100



# UNISTRUT® CONCRETE INSERTS

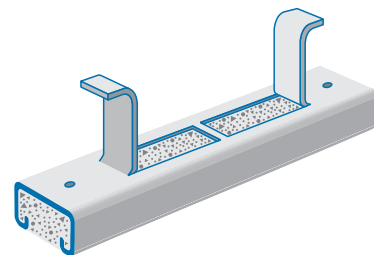
## P1000CI® INSERTS 41MM X 41MM

Material	Part Number	Insert Length mm	Maximum Allowable Point Load kN	Minimum Spacing of Point Loads mm	Maximum Allowable Uniform Load kN
4001235	PIC200	200	5.34	-	5.34
4001236	PIC300	300	8.83	-	8.83
4001237	PIC400	400	8.83	300	1766
4002261	PIC500	500	8.83	300	1766
4001238	PIC600	600	8.83	300	1766
4001239	PIC800	800	8.83	300	1766
4001233	PIC1000	1000	8.83	300	3000kg/m
4010827	PIC1100	1100	8.83	300	3000kg/m
4001234	PIC1200	1200	8.83	300	3000kg/m
4010828	PIC1300	1300	8.83	300	3000kg/m
4026158	PIC1400	1400	8.83	300	3000kg/m
4016448	PIC1500	1500	8.83	300	3000kg/m
4010829	PIC1600	1600	8.83	300	3000kg/m
4026157	PIC1700	1700	8.83	300	3000kg/m
4006941	PIC1800	1800	8.83	300	3000kg/m
4004841	PIC1900	1900	8.83	300	3000kg/m
4007067	PIC2000	2000	8.83	300	3000kg/m
4016450	PIC2400	2400	8.83	300	3000kg/m
4014972	PIC3000	3000	8.83	300	3000kg/m
3000065	P1000CI-HG	6000	8.83	300	3000kg/m



## P3300CI INSERTS 41MM X 22MM

Material	Part Number	Insert Length mm	Maximum Allowable Point Load kN	Minimum Spacing of Point Loads mm	Maximum Allowable Uniform Load kN
4001242	PIE200	200	4.25	-	4.25
4001243	PIE300	300	6.37	300-	6.37
4001244	PIE400	400	6.37	300	12.74
4002262	PIE500	500	6.37	300	12.74
4001245	PIE600	600	6.37	300	12.74
4002263	PIE700	700	6.37	300	12.74
4001246	PIE800	800	6.37	300	2164.50kg/m
4033607	PIE900	900	6.37	300	2164.50kg/m
4001240	PIE1000	1000	6.37	300	2164.50kg/m
4033605	PIE1100	1100	6.37	300	2164.50kg/m
4001241	PIE1200	1200	6.37	300	2164.50kg/m
4004594	PIE1400	1400	6.37	300	2164.50kg/m
4033606	PIE1500	1500	6.37	300	2164.50kg/m
4009209	PIE1600	1600	6.37	300	2164.50kg/m
4015431	PIE2000	2000	6.37	300	2164.50kg/m
4016034	PIE2100	2100	6.37	300	2164.50kg/m
4016033	PIE2200	2200	6.37	300	2164.50kg/m
4005209	PIE3000	3000	6.37	300	2164.50kg/m
3000090	P3300CI-HG	6000	6.37	300	2164.50kg/m



# UNISTRUT® STRUT NUTS

## MATERIAL

Unistrut® spring nuts are manufactured from steel bars, and after machining operations are completed, zinc plated nuts are case hardened. Hardening assures positive biting action into the inturned edge of the Unistrut® Strut. Similar nuts without springs are also available. Strut nuts are manufactured by welding studs to UNISTRUT® nuts except for USB series which are drop forged. Nuts and bolts are manufactured to AS1111 & AS1112.

**Threads:** All threads on the nuts and bolts are metric coarse.

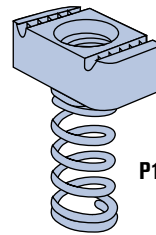
**Design Bolt Torque:** Refer to Engineering Data Page 49

**Finishes:** Nuts and bolts are zinc plated to Australian Standards AS1897, selected sizes also available in hot dipped galvanised to AS1214.

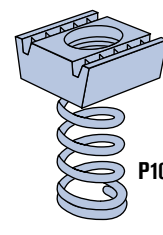
**Stainless Steel:** Grade 316 class 70

## P1000® & P2000 STRUT NUTS, WITH SPRINGS

Size	Part No. ZP	Part No. HG	Part No. SS	Part No. ZA	Mass Kg/100
M6	P1006	P1006H	P1006SS	P1006ZA	3.2
M8	P1007	P1007H	P1007SS	P1007ZA	3.2
M10	P1008	P1008H	P1008SS	P1008ZA	4.5
M12	P1010	P1010H	P1013SS	P1010ZA	5.4
M16	P1012S	P1012SH	P1012SS	-	9.5



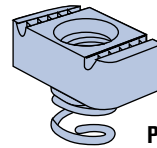
P1006/7/8/10



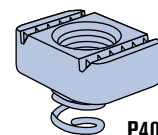
P1012S

## P3300 & P4000 STRUT NUTS, WITH SPRINGS

Size	Part No. ZP	Part No. HG	Part No. SS	Part No. ZA	Mass Kg/100
M6	P4006	P4006H	P4006SS	P4006ZA	3.2
M8	P4007	P4007H	P4007SS	P4007ZA	2.7
M10	P4008	P4008H	P4008SS	P4008ZA	4.1
M12	P4010	P4010H	P4013SS	P4010ZA	3.6
M16	P4012S	P4012SH	P4012SS	-	5.1



P4006/7/8/10



P4012S

## FOR P5500 STRUT NUTS - WITH SPRINGS

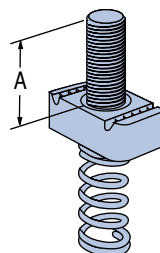
Size	Part No. ZP	Part No. HG	Part No. SS	Part No. ZA	Mass Kg/100
M10	P5508	-	-	-	4.5
M12	P5510	-	-	-	5.4



P5508/10

## STUD NUT - P2378M6-1 TO P2381M12-5

Size	DIM "A" mm	Part No. ZP	Mass Kg/100
M6	25	P2378M6-1	3.6
M6	38	P3278M6-3	4.1
M10	25	P2380M10-1	5.9
M10	45	P2380M10-4	6.8
M12	25	P2381M12-2	6.4
M12	45	P2381M12-5	8.2



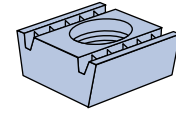
# UNISTRUT® STRUT NUTS NO SPRINGS

## P1000® & P2000 STRUT NUTS, NO SPRINGS

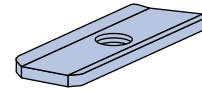
Size	Part No. ZP	Part No. HG	Part No. SS	Part No. ZA	Mass Kg/100
M6	P3016	P3016MG	P3016SS	-	1
M6	P3006	P3006H	P3006SS	-	2.7
M8	P3007	P3007H	P3007SS	P3007ZA	2.7
M10	P3008	P3008H	P3008SS	P3008ZA	4.1
M12	P3010	P3010MG	P3013SS	P3010ZA	5
M16	P1012	P1012H	-	-	9.1



P3006/7/8/13



P1012



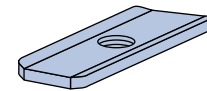
P3016

## P3300 & P4000 STRUT NUTS, NO SPRINGS

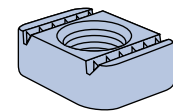
Size	Part No. ZP	Part No. HG	Part No. SS	Part No. ZA	Mass Kg/100
M6	P3016	P3016MG	P3016SS	-	1
M6	P3006	P3006H	P3006SS	-	2.7
M8	P3007	P3007H	P3007SS	P3007ZA	2.7
M10	P3008	P3008H	P3008SS	P3008ZA	4.1
M12	P3013	P3013MG	P3013SS	P3013ZA	3.6
M16	P4012	P4012H	P4012SS	-	5



P3006/7/8/13



P3016



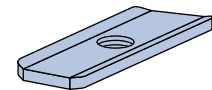
P4012

## P5500 STRUT NUTS, NO SPRINGS

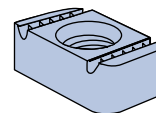
Size	Part No. ZP	Part No. HG	Part No. SS	Part No. ZA	Mass Kg/100
M6	P3016	P3016MG	P3016SS	-	1
M6	P3006	P3006H	P3006SS	-	2.7
M8	P3007	P3007H	P3007SS	P3007ZA	2.7
M10	P3008	P3008H	P3008SS	P3008ZA	4.1
M12	P3010	P3010MG	P3013SS	P3010ZA	3.6
M16	P1012	P1012H	-	-	9.1



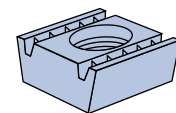
P3006/7/8



P3016



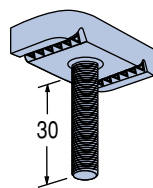
P3010



P1012

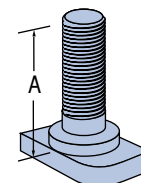
## FIXTURE STUD NUT - P3116

Size	DIM "A" mm	Part No. ZP	Part No. MG	Mass Kg/100
M6	30	P3116	P3116MG	3.5



## STUD BOLT - USB045 TO USB102

Size	DIM "A" mm	Part No. ZP	Mass Kg/100
M16	45	USB045	10
M16	76	USB076	14
M16	102	USB102	18





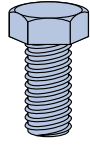
# UNISTRUT® HARDWARE

STRUT SYSTEMS

STRUT NUTS

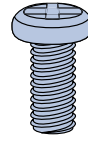
## HEX HEAD SET SCREWS

Part No.	Size	Mass kg/100
HHS0620	M6 x 20	0.6
HHS0625	M6 x 25	0.7
HHS0630	M6 x 30	0.8
HHS0820	M8 x 20	1.2
HHS0825	M8 x 25	1.4
HHS0830	M8 x 30	1.5
HHS0840	M8 x 40	1.8
HHS1020	M10 x 20	1.9
HHS1025	M10 x 25	2.1
HHS1030	M10 x 30	2.5
HHS1040	M10 x 40	3.0
HHS1224	M12 x 24	4.2
HHS1230	M12 x 30	4.5
HHS1240	M12 x 40	5.1
HHS1260	M12 x 60	7.5
HHS1640	M16 x 40	9.5



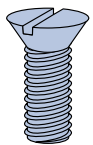
## PAN HEAD SCREWS

Part No.	Size	Mass kg/100
PHS0620	M6 x 20	0.6
PHS0625	M6 x 25	0.7
PHS0630	M6 x 30	0.8
PHS0825	M8 x 25	1.3



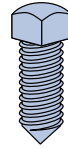
## COUNTERSUNK HEAD SCREW

Part No.	Size	Mass kg/100
CKS0615	M6 x 15	0.3
CKS0620	M6 x 20	0.4
CKS0820	M8 x 20	0.8
CKS1020	M10 x 20	1.3



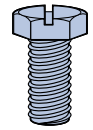
## CONE POINT SET SCREW

Part No.	Size	Mass kg/100
CPS1040	M10 x 40	2.3
CPS1240	M12 x 40	3.8
CPS1250	M12 x 50	4.4



## SLOTTED HEX HEAD SET SCREWS

Part No.	Size	Mass kg/100
SHS0620	M6 x 20	0.6
SHS0825	M8 x 25	1.2
SHS0830	M8 x 30	1.3



## HEXAGON NUTS

Part No.	Size	Mass kg/100
HN06	M6	0.2
HN08	M8	0.5
HN10	M10	0.8
HN12	M12	1.8
HN16	M16	3.3
HN20	M20	5.6



## FLAT WASHERS

Part No.	Size	Mass kg/100
FW06	M6	0.1
FW08	M8	0.1
FW10	M10	0.3
FW12	M12	0.4
FW16	M16	0.8
FW20	M20	0.9



## SPRING WASHERS

Part No.	Size	Mass kg/100
SW06	M6	0.1
SW08	M8	0.2
SW10	M10	0.3
SW12	M12	0.4
SW16	M16	0.6
SW20	M20	1.0



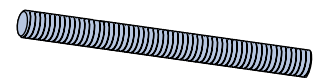
## SHAKEPROOF LOCK WASHERS

Part No.	Size	Mass kg/100
LW06	M6	0.05
LW08	M8	0.06
LW10	M10	0.08
LW12	M12	0.10
LW16	M16	0.13
LW20	M20	1.20



## UNIROD STEEL THREADED ROD

Part No.	Size	Max. Recommended Tensile Load (kN)	Mass kg/ea
UR06	M6	3.22	0.6
UR08*	M8	5.84	1.1
UR10*	M10	9.28	1.5
UR12*	M12	13.48	2.4
UR16*	M16	25.12	3.9
UR20*	M20	39.20	6.3



**Standard Finish:** Zinc Plated.

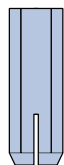
\*Also available in Hot Dipped Galvanised.

**Standard Length:** 3m

**Unirod Load Data:** Maximum recommended tensile load is based on a safety factor of 2.5 using the appropriate stress area of thread and ultimate tensile strength of 430 MPa.

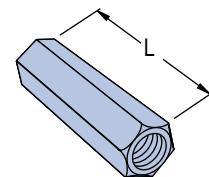
## DROP IN ANCHOR

Part No.	Size	Finish	Mass kg/100
HAD06	M6 X 25	ZP	0.7
HAD08	M8 X 30	ZP	1.2
HAD10	M10 X 40	ZP	2.3
HAD12	M12 X 50	ZP	4.5



## ROD COUPLERS

Part No.	Size	Length 'A'	Mass kg/100
RC06	M6	20	1.2
RC08*	M8	25	2.3
RC10*	M10	30	4.0
RC12*	M12	40	7.8
RC16*	M16	50	12.2
RC20*	M20	50	19.0



**Standard Finish:** Zinc Plated.

\*Also available in Hot Dipped Galvanised.

# UNISTRUT® FITTINGS - FLAT PLATE

## MATERIAL

Unless otherwise noted, all fittings are punch press formed from plate or strip steel.

## FITTING APPLICATION

All product drawings illustrate only one application of each fitting. In most cases many other applications are possible. The members shown in the illustrations are P1000®, 41mm square, except where noted otherwise. All 14mm diameter holes use M12 x 24 hex head set screws and M12 nuts - P1010, P4010 or P5510 - depending on the Strut used. Nuts and bolts are not included with the fitting and must be ordered separately.

## DESIGN LOAD DATA

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5.

## DESIGN BOLT TORQUE

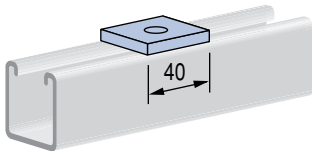
Refer to Engineering Data page 49.

## FINISHES

All fittings in this section are available in zinc plated finish to Australian Standard AS1789 and Hot Dipped Galvanised to AS/NS4680.

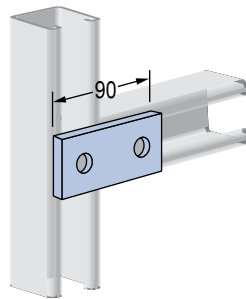
### P1062 - P1964

Part No.	Bolt Size	Hole Size	Mass kg/100
P1062	8	9	5.9
P1063	10	12	5.7
P1064	12	14	5.5
P1964	16	18	5.4



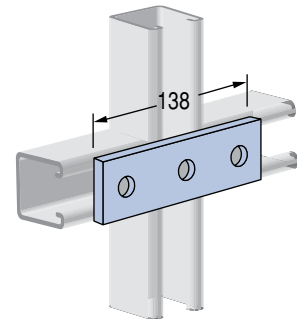
### P1065

Mass: 13.4kg/100



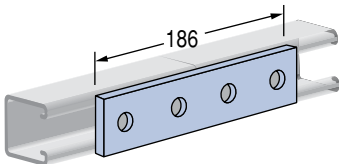
### P1066

Mass: 20kg/100



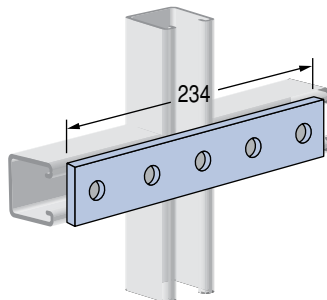
### P1067

Mass: 26.7kg/100



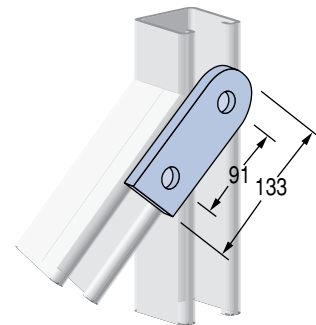
### P1941

Mass: 34.2kg/100



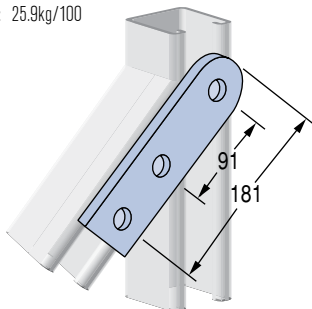
### P2325

Mass: 19.2kg/100



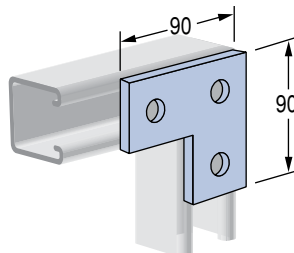
### P2324

Mass: 25.9kg/100



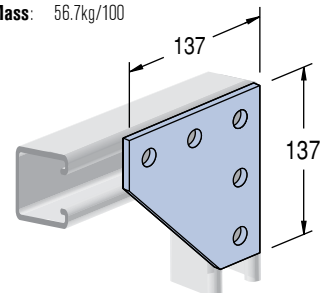
### P1036

Mass: 20.9kg/100



### P1873

Mass: 56.7kg/100

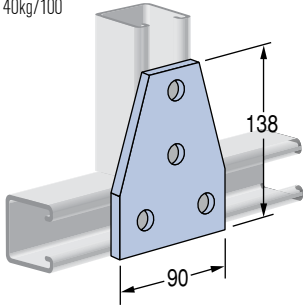


Standard Dimensions for 41mm width series Strut fittings (Unless Otherwise Shown on Drawing)  
Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm

# UNISTRUT® FITTINGS - FLAT PLATE & 90° ANGLE

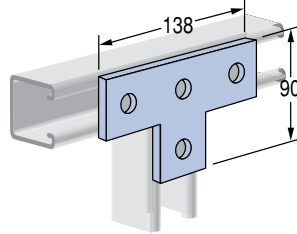
## P1358

Mass: 40kg/100



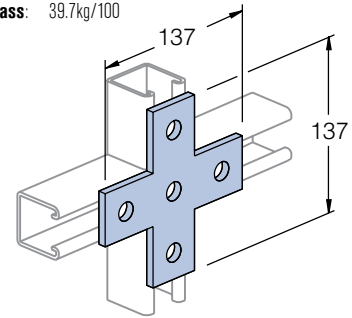
## P1031

Mass: 29.2 kg/100



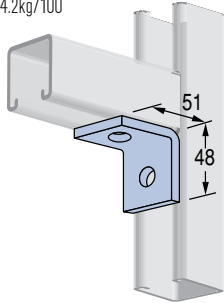
## P1028

Mass: 39.7kg/100



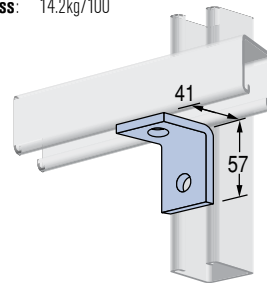
## P1026

Mass: 14.2kg/100



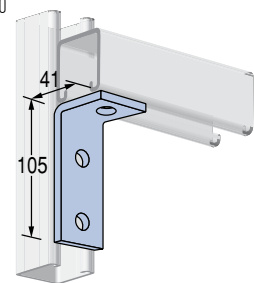
## P1068

Mass: 14.2kg/100



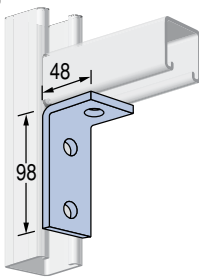
## P1326

Mass: 20kg/100



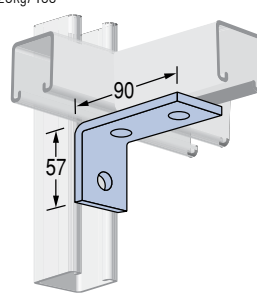
## P1346

Mass: 20kg/100



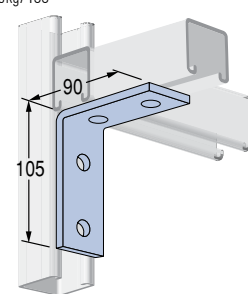
## P1458

Mass: 20kg/100



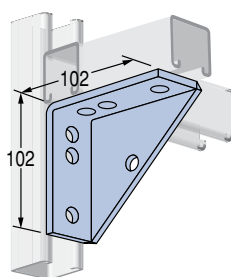
## P1325

Mass: 27.5kg/100



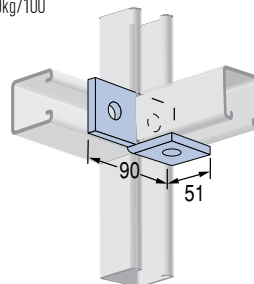
## P2484

Mass: 50.9kg/100



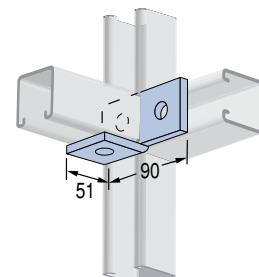
## P1037

Mass: 20.9kg/100



## P1038

Mass: 20.9kg/100



Standard Dimensions for 41mm width series Strut fittings (Unless Otherwise Shown on Drawing)  
Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm

# UNISTRUT® FITTINGS - 90°, ANGULAR & "Z" SHAPE

### P1033

Mass: 29.2kg/100

### P1034

Mass: 29.2kg/100

### P1035

Mass: 29.2kg/100

### P1357

Mass: 26.7kg/100

### P1359

Mass: 40kg/100

### P2101 & P2103

Mass: 21.7kg/100

Part No.	A	B
P2101	30	83
P2103	15	84

### P1546, P2095, P2097

Mass: 21.7kg/100

Part No.	A	B	C
P2095	75	91	43
P2097	60	86	48
P1546	45	76	60

### P2452

Mass: 85.9kg/100  
Design Axial Load - 5.36kN

### P1186, P2106, P2108

Mass: 21.7kg/100

Part No.	A
P1186	45
P2106	75
P2108	60

### P1736

Mass: 22.5kg/100

### P1045

Mass: 20kg/100

### P4045

Mass: 16.7kg/100

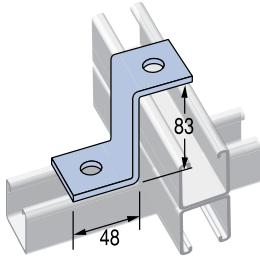
P4000 Shown

Standard Dimensions for 41mm width series Strut fittings (Unless Otherwise Shown on Drawing)  
Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm

# UNISTRUT® FITTINGS - "Z", "U" AND WING SHAPE

## P1453

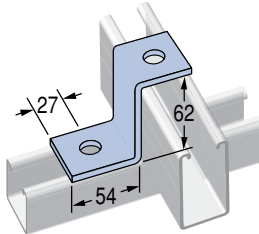
Mass: 25kg/100



P1001 Shown

## P5545

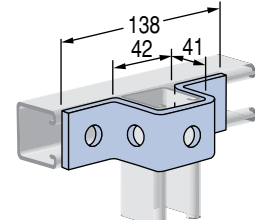
Mass: 24.2kg/100



P1000® and  
P5500 Shown

## P1047

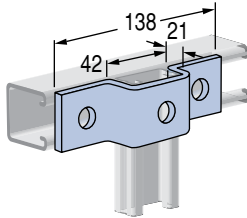
Mass: 30.9kg/100



P1000® Shown

## P4047

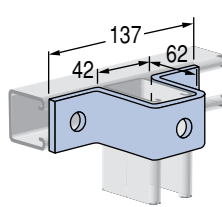
Mass: 25kg/100



P1000® and  
P4000 Shown

## P5547

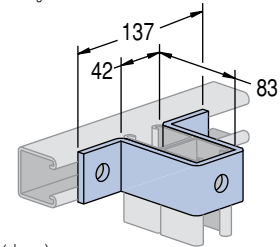
Mass: 39.2kg/100



P1000® and  
P5500 Shown

## P1737

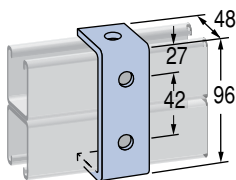
Mass: 48.4kg/100



P1000® (shown),  
and P2001

## P1044

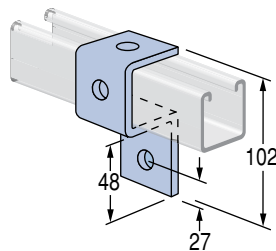
Mass: 25kg/100



P1001 Shown

## P1046

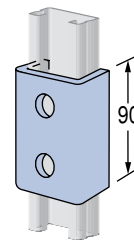
Mass: 29.2kg/100



P1000® Shown

## P4376

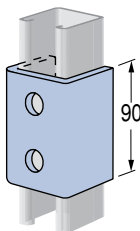
Mass: 31.7kg/100



P4000 Shown

## P1376

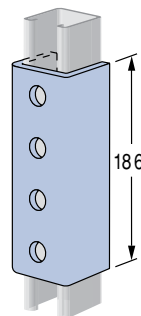
Mass: 46.7kg/100



P1000® Shown

## P1377

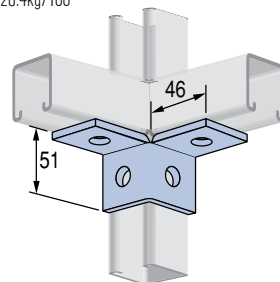
Mass: 95.9kg/100



P1000® Shown

## P2223

Mass: 28.4kg/100



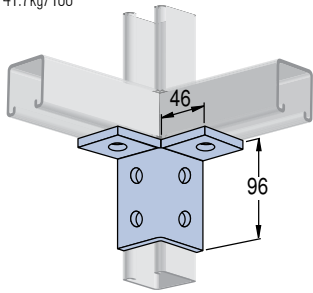
Standard Dimensions for 41mm width series Strut fittings (Unless Otherwise Shown on Drawing)  
Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm



# UNISTRUT® FITTINGS - WING SHAPE, POST BASES

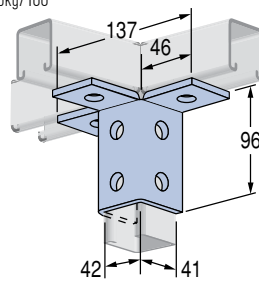
## P2224

Mass: 41.7kg/100



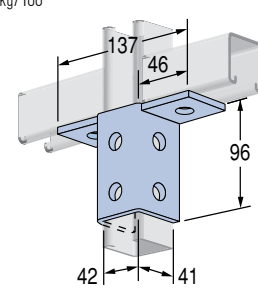
## P2228

Mass: 65kg/100



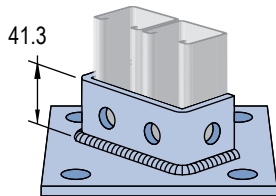
## P2346

Mass: 55kg/100

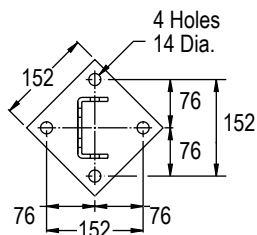


## P2073/P2073SQ

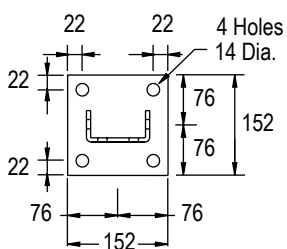
Mass: 116.7kg/100



P1001 Shown



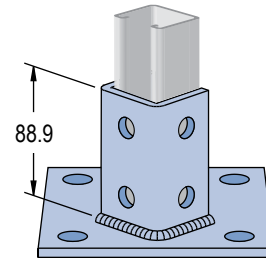
P2073



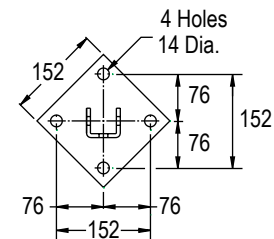
P2073SQ

## P2072A/P2072ASQ

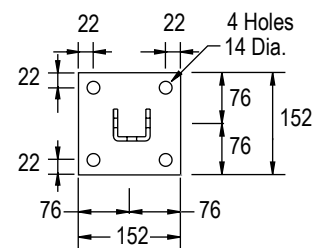
Mass: 136.7kg/100



P1000® Shown



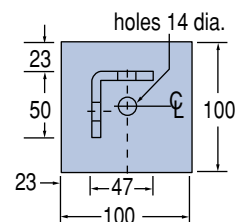
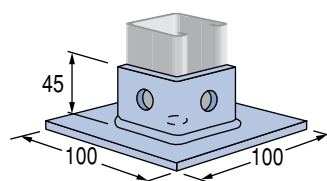
P2072A



P2072ASQ

## P2072S1

P1000® Shown



**Standard Dimensions for 41mm width series Strut fittings** (Unless Otherwise Shown on Drawing)  
**Hole Diameter:** 14mm; **Hole Spacing - From End:** 21mm; **Hole Spacing - On Center:** 48mm; **Width:** 40mm

## UNISTRUT®

## CANTILEVER BRACKETS – GENERAL INFORMATION

## MATERIAL

Unless otherwise noted, all fittings are punch press formed from plate or strip steel.

## FITTING APPLICATION

All product drawings illustrate only one application of each fitting. In most cases many other applications are possible.

The members shown in the illustrations are P1000®, 41mm square, except where noted otherwise. All 14mm diameter holes use M12 x 24 hex head set screws and M12 nuts - P1010, P4010 or P5510 - depending on the channel used. Nuts and bolts are not included with the fitting and must be ordered separately.

## DESIGN LOAD DATA

Loadings are as shown based on calculations in accordance with AS/NZS 4600 and AS 4100.

## DESIGN BOLT TORQUE

Refer to Engineering Data (See Page 49).

## FINISHES

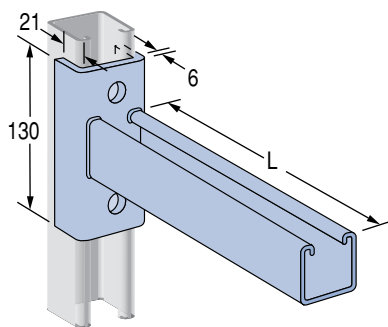
All fittings in this section are Hot Dipped Galvanised to AS/NZS4680 unless otherwise shown.

## STANDARD DIMENSIONS

The following dimensions apply to all fittings except as noted on the individual part drawings:

Hole Size	- 14mm diameter
Hole Spacing	- 21mm from end
Hole Spacing	- 48mm on centre
Width	- 40mm

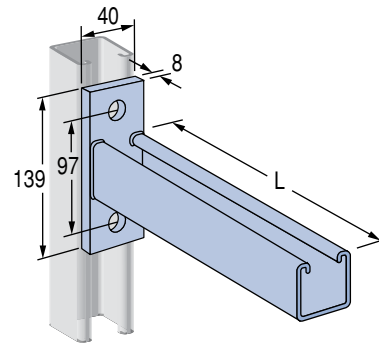
## P2233 &amp; P2234



Brackets can be used inverted

Part No.	L	Design Uniform Load - kN	Mass kg/100
P2233	457	3.14	189
P2234	610	1.97	232

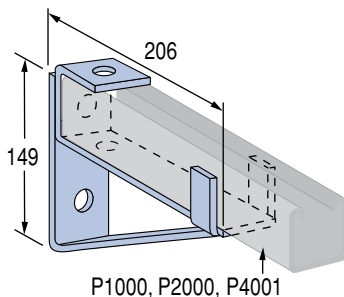
## P2663 - 250 TO P2663 - 700



Brackets can be used inverted

Part No.	L	Design Uniform Load - kN	Mass kg/100
P2663-250	250	3.01	102
P2663-400	400	1.88	143
P2663-550	550	1.36	186
P2663-700	700	1.06	229

## P1075 - 8

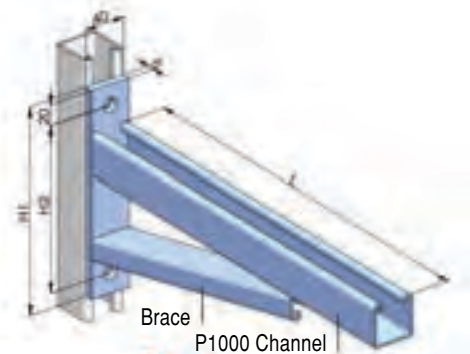


P1000, P2000, P4001

Part No.	Design Moment kN*	Mass kg/100
P1075-8	0.58	130

\* Applies only to fittings and not to strength of Unistrut® arm. Designed for use with "Unistrut®" nuts, do not use through bolts.

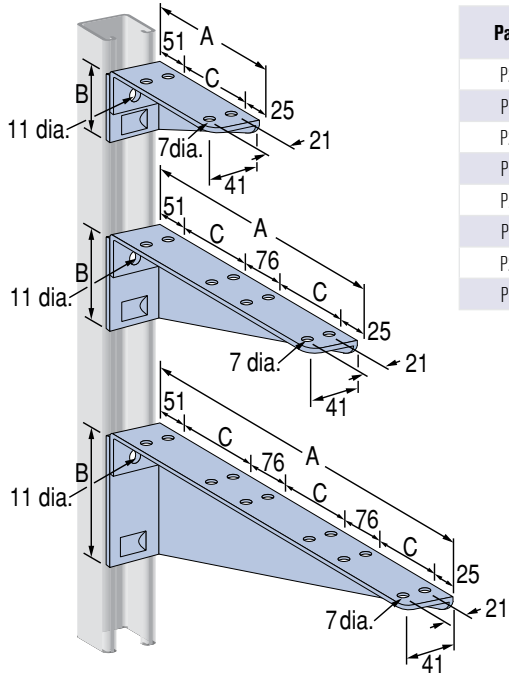
## PCL150 TO PCL600



Part No.	L	H1	H2	Design Uniform Load kN	Mass kg/100
PCL150	320	200	160	4.47	179
PCL300	470	200	160	3.17	239
PCL450	635	235	195	3.33	349
PCL600	780	235	195	2.80	389

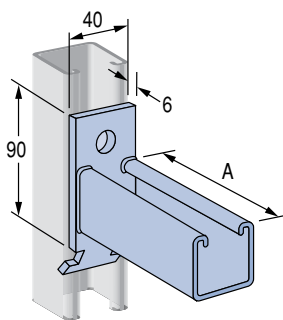
# UNISTRUT® CANTILEVER BRACKETS

## P2491R-L TO P2500R-L



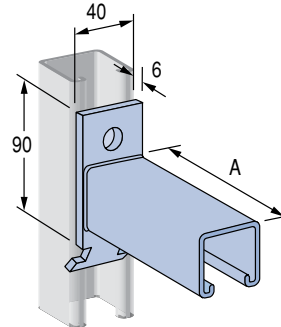
Part No.	A	B	C	Design Uniform Load kN	Mass kg/100
P2491R	152	56	76	1.57	30
P2491L	152	56	76	1.57	30
P2494R	305	87	76	1.37	69
P2494L	305	87	76	1.37	69
P2497R	457	125	152	1.01	121
P2497L	457	125	152	1.01	121
P2500R	610	164	127	0.98	182
P2500L	610	164	127	0.98	182

## P2513 TO P2516



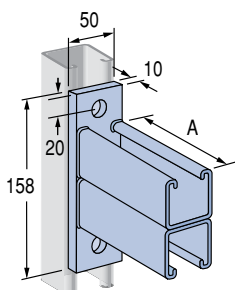
Part No.	A	Design Uniform Load kN	Mass kg/100
P2513	250	1.77	91
P2514	400	1.10	128
P2515	550	0.80	177
P2516	700	0.62	216

## P2513A TO P2516A



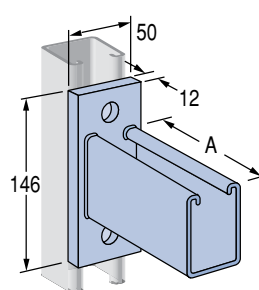
Part No.	A	Design Uniform Load kN	Mass kg/100
P2513A	250	1.77	91
P2514A	400	1.10	128
P2515A	550	0.80	177
P2516A	700	0.62	216

## P2542 TO P2546



Part No.	A	Design Uniform Load kN	Mass kg/100
P2542	305	7.57	228
P2543	460	5.22	314
P2544	610	3.98	400
P2545	760	3.21	487
P2546	915	2.67	574

## P5663 - 300 TO P5663 - 750

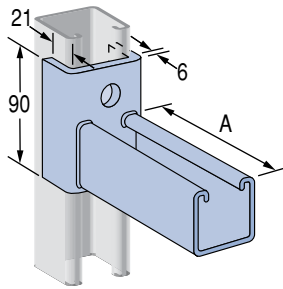


Part No.	A	Design Uniform Load kN	Mass kg/100
P5663-300	300	6.93	173
P5663-450	450	4.78	224
P5663-600	600	3.62	276
P5663-750	750	2.91	327

**UNISTRUT®**

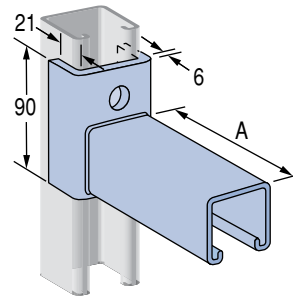
**CANTILEVER BRACKETS & ADJUSTABLE BRACE FITTINGS**

**P2231 & P2232**



Part No.	A	Design Uniform Load - kN	Mass kg/100
P2231	152	6.46	81
P2232	305	3.78	124

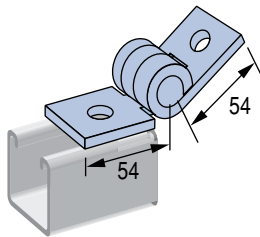
**P2231A & P2232A**



Part No.	A	Design Uniform Load - kN	Mass kg/100
P2231A	152	6.46	81
P2232A	305	3.78	124

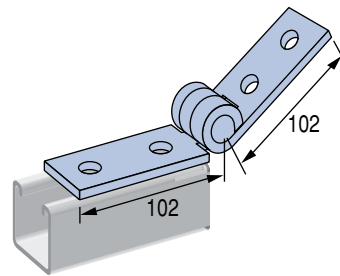
**P1843**

Mass: 31kg/100



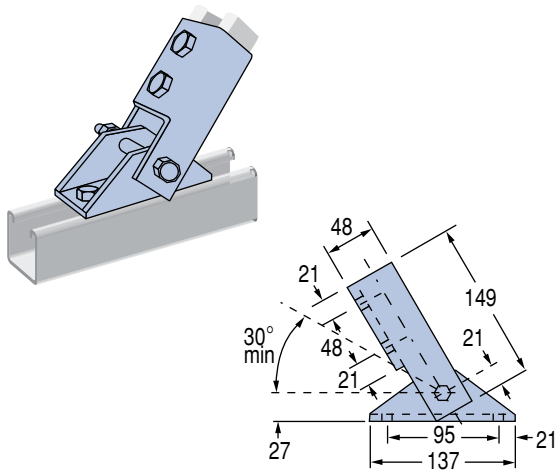
**P1354**

Mass: 49kg/100



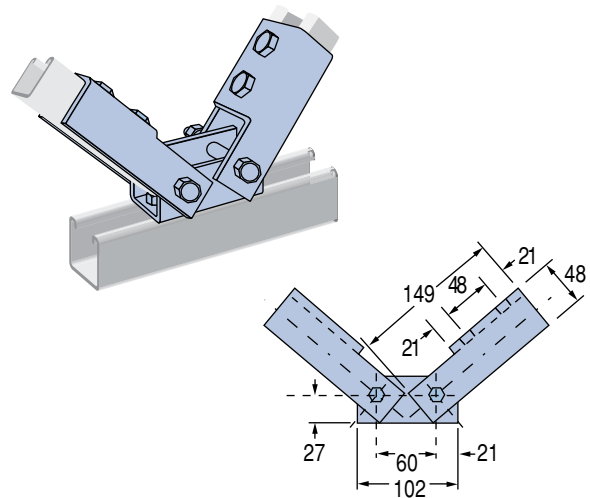
**P2815**

Mass: 139kg/100



**P2815D**

Mass: 26kg/100



# UNISTRUT® BEAM CLAMPS

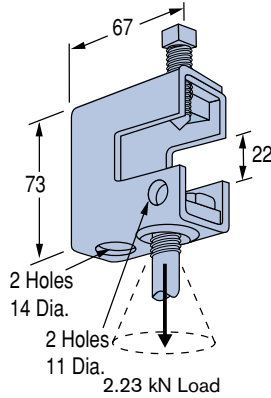
## APPLICATION

Beam Clamps are designed to provide a fast easy attachment to overhead structures. They alleviate the need for drilling and welding as well as being completely adjustable.

**Finishes** – Standard finishes as shown.

**Design Bolt Torque** – Refer to Engineering Data (page 49)

### P2676



**Mass:** 31kg/100

**Beam Attachment Applications:**

Clamp P2676 provides a means of rod suspension, either fixed, or where a free swing of up to 15 degrees is required. Swivel nuts to be ordered separately.

Clamp may also be used with P2677 as illustrated in application drawings.

**Standard Finishes:**

Z.P, H.D.G. & S.S.

M12 x 50 cone-pointed screw & nut included

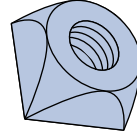
Clamp material 3mm thick

Swivel nut and lock nut not included

Rod size up to M12

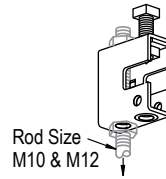
Rod swivel 15° all directions

### P2676 – SWIVEL NUT

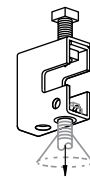


Part No.	Size	Mass kg/100
P267910	M10	1.7
P267912	M12	1.5

Note: Swivel nuts are used with P2676 and P2677. Order size as required.

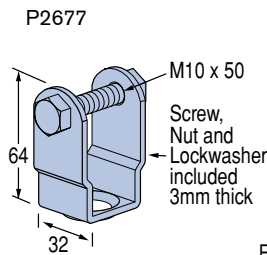


Design Load  
1.33 kN



Design Load  
2.23 kN

### P2677

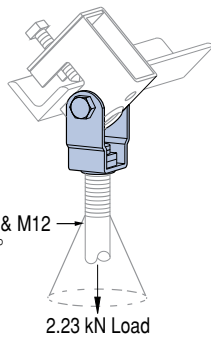


**Mass:** 13.6kg/100

P2677 clevis hanger to be used with P2676 to provide angle adjustment and 15 degree free swing for up to M12 rod suspension. Order P2679 series swivel nuts required.

**Standard Finishes:** Z.P

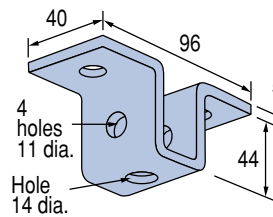
**P2676 & P2677**



Rod size M10 & M12  
Rod swivel 15°  
all directions

2.23 kN Load

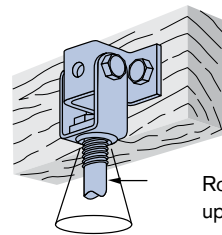
### P2682



**Mass:** 23kg/100

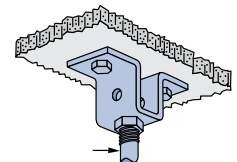
Hanger clevis for up to M12 rod suspension. Suitable for wood ceilings. May also be used with P2677 as illustrated in application drawings.

**Standard Finishes:** Z.P

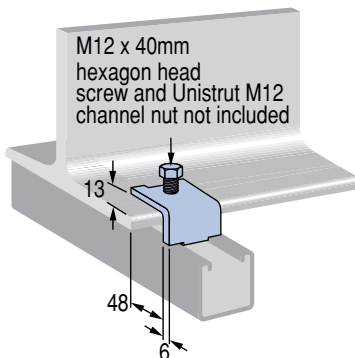


Rod size  
up to M12

Rod size up to M12  
Rod swivel 15°  
all directions



### P1386



**Mass:** 12kg/100

**Design Load each:**

P1000® - 2.67kN

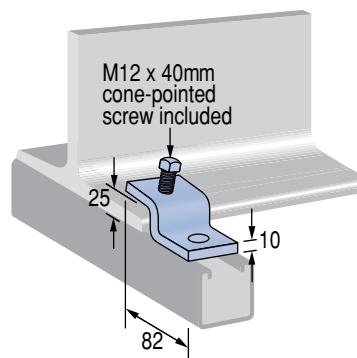
P2000 - 2.00kN

**Standard Finishes:**

Z.P. & H.D.G

**Use in pairs only**

### P1379



**Mass:** 34kg/100

**Design Load each:**

P1000® - 2.67kN

P2000 - 2.00kN

**Standard Finishes:**

Z.P. & H.D.G

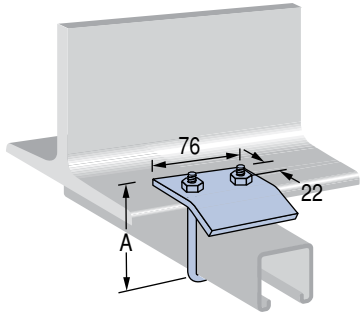
**Each clamp requires:**

M12 x 30 Hex Head Set Screw and M12 Channel Nut (not included)

**Use in pairs only**

# UNISTRUT® BEAM CLAMPS

## P2785 & P2786



**P2785 accepts following channels:**  
P1000®, P2000, P3300, P4000  
**A = 86 Mass: 38kg/100**  
For use with beams up to 19mm

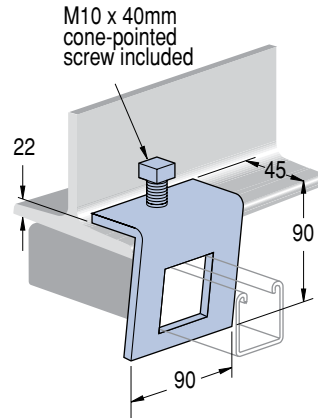
**P2786 accepts following channels:**  
P1001, P2001, P5500  
**A = 127 Mass: 41kg/100**  
For use with beams up to 19mm

**Design Load each:**  
4.45kN

**Standard Finishes:**  
Z.P. & H.D.G. + SS

Use in pairs only

## P1796



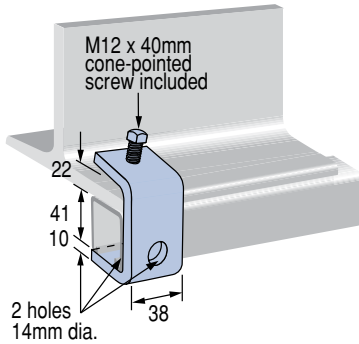
**Mass:** 49kg/100  
Suits P1000® & P2000

**Design Load each:**  
2.22kN

**Standard Finishes:**  
Z.P. & H.D.G.

Use in pairs only

## P1271



**Mass:** 43kg/100

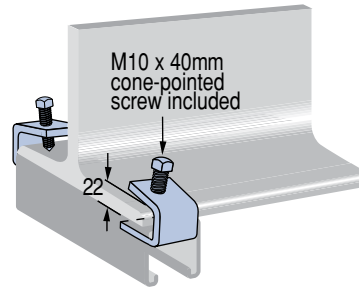
**Design Load each:**  
2.22kN

**Standard Finishes:**  
H.D.G.

Requires P1010 Channel nut & bolt

Use in pairs only

## P1272



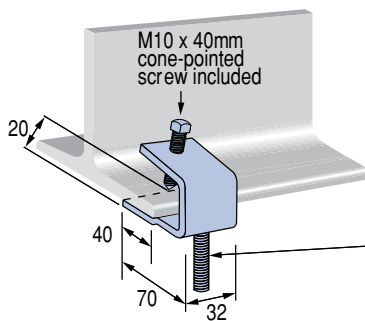
**Mass:** 18kg/100

**Design Load Per Pair:**  
2.00kN

**Standard Finishes:**  
Z.P., H.D.G., & S.S.

Use in pairs only

## P1270



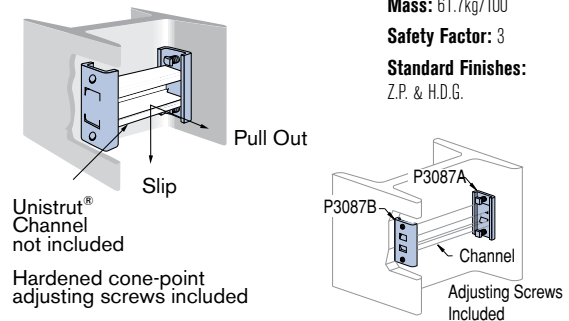
**Mass:** 29kg/100

**Design Load each:**  
0.38kN

**Standard Finishes:**  
Z.P. & H.D.G.

Tapped hole to accept M10 Unirod, to be secured with M10 nut (not included)

## P3087



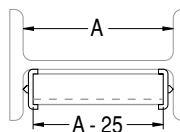
**Mass:** 61.7kg/100

**Safety Factor:** 3

**Standard Finishes:**  
Z.P. & H.D.G.

Unistrut® Channel not included

Hardened cone-point adjusting screws included



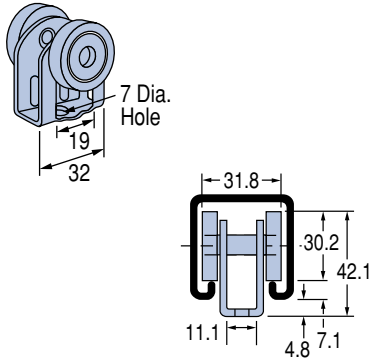
Channel Type	Design Pullout Load kN	Design Slip Load kN
P1000	4.45	3.56
P2000	2.22	1.33



# UNISTRUT® TROLLEY ASSEMBLIES

## P2749/P2749N

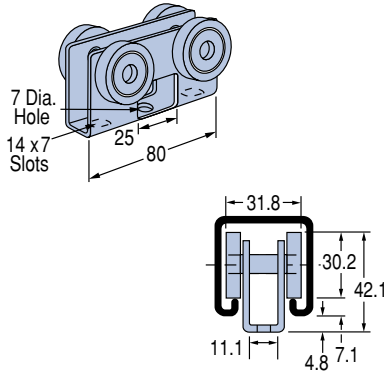
Mass: 10kg/100  
Clevis 2.5mm



Note: 'N' indicates Acetal wheels

## P2750/P2750N

Mass: 22kg/100



Note: 'N' indicates Acetal wheels

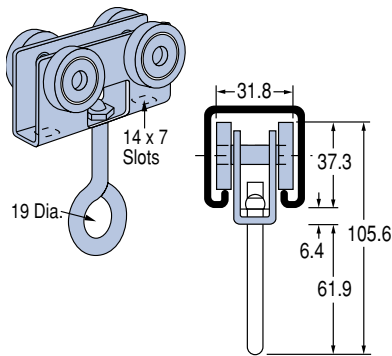
## LOADS (kN)

Part No.	Wheel - Steel Ball Bearing Approx. Design Load kN
P2749	0.22
P2750	0.45
P2751	0.45

Part No.	Wheel - Acetal Approx. Design Load kN
P2749N	0.04
P2750N	0.09
P2751N	0.09

## P2751/P2751N

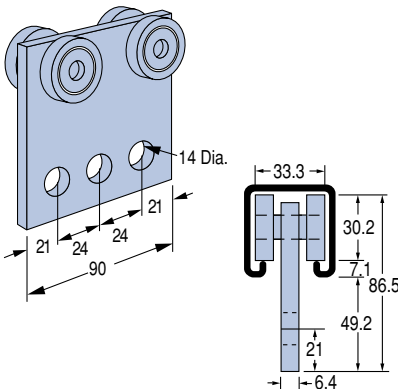
Mass: 26kg/100  
Clevis 2.5mm



Note: 'N' indicates Acetal wheels

## P2950

Mass: 48kg/100

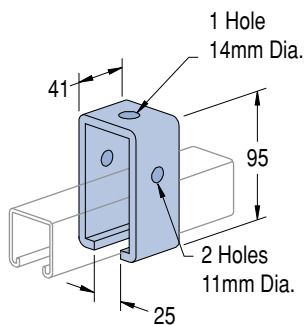


## P2950 LOADS (kN)

MPM	RPM	Design Load in P1000® kN
54	600	1.33
27	300	2.00
9	100	2.67

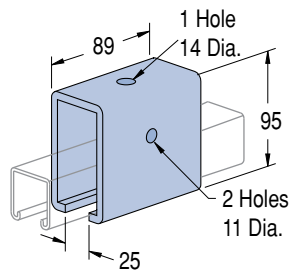
## P1834 - TROLLEY SUPPORT

Mass: 46kg/100  
Design Load: 5.34kN  
Requires M10 x 70 Bolt & Nut. Not Included.



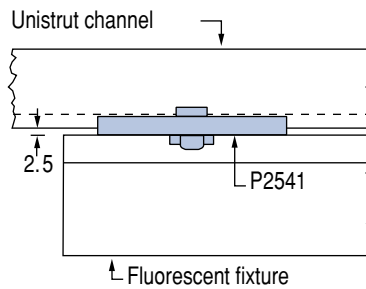
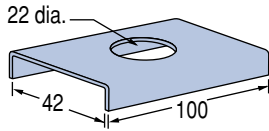
## P1834A - TROLLEY SUPPORT

Mass: 99.8kg/100  
Design Load: 11.12kN  
Requires M10 x 70 Bolt & Nut. Not Included.



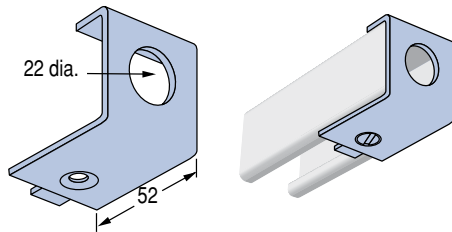
# UNISTRUT® FITTINGS - ELECTRICAL

## P2541 - SPACER CLEVIS



## P2521 - CONDUIT END CONNECTOR

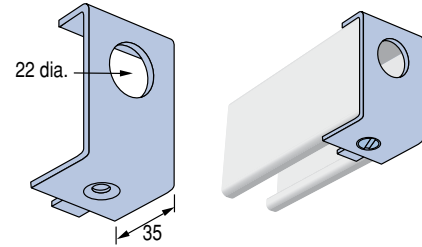
**Mass:** 12kg/100  
**Finish:** Zinc Plated



Fitted to end of trunking for attachment of electrical conduit. P2521 for use with P1000® and P2000 Struts. Countersunk head screw and clamping nut included.

## P5521 - CONDUIT END CONNECTOR

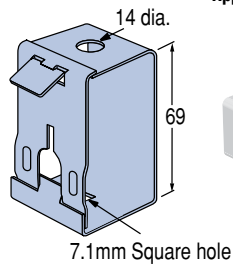
**Mass:** 12kg/100  
**Finish:** Zinc Plated



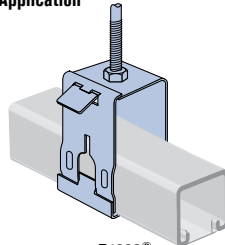
Fitted to end of trunking for attachment of electrical conduit. P5521 for use with P5500 Strut. Countersunk head screw and clamping nut included.

## P2855

**Mass:** 14.5kg/100  
**Design Load:** 0.5kN  
**Finish:** Zinc Plated



**Application**

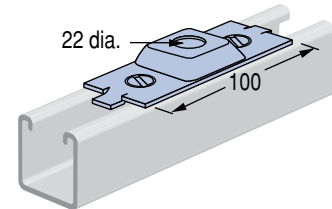


**P1000®  
P2000  
P3300**

7.1mm Square hole

## P2535 - CONDUIT HANGER FITTING

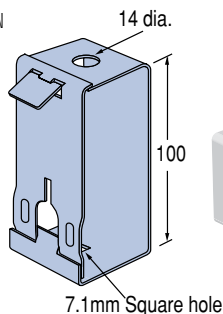
**Mass:** 13kg/100  
**Design Load:** 1.78kN  
**Finish:** Zinc Plated



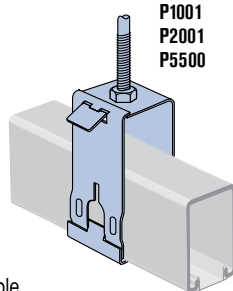
M6 x 15 Countersunk screws and P3016 nuts included  
Conduit hanger fitting for rigid attachment to Unistrut® Strut.

## P2755

**Mass:** 20kg/100  
**Design Load:** 0.5kN  
**Finish:** Zinc Plated



**Application**

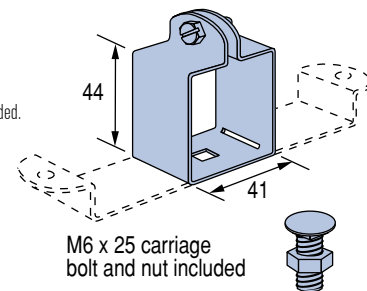


**P1001  
P2001  
P5500**

7.1mm Square hole

## P2539 - FIXTURE HANGER FITTING

**Mass:** 8kg/100  
**Design Load:** 0.5kN  
**Finish:** Zinc Plated



M6 x 20 screw and nut included.

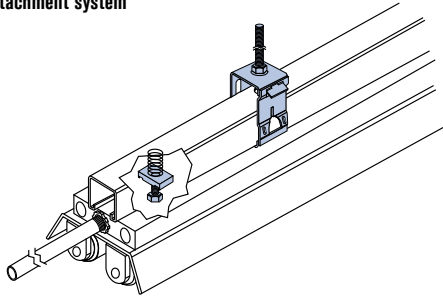
M6 x 25 carriage  
bolt and nut included

Fluorescent hanger fittings provide a means of mounting fixtures to Unistrut®. They are shipped flat and are easily bent to form around the Unistrut® Strut. For use with P1000® and P2000

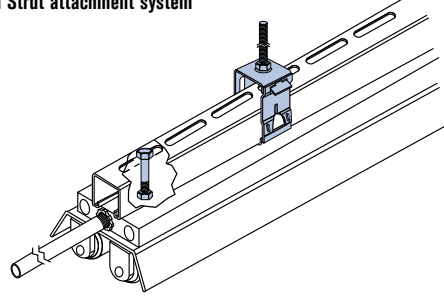
# UNISTRUT® FITTINGS - FLUORESCENT

## FLUORESCENT FIXTURE – SUPPORT APPLICATIONS

Spring-Nut attachment system



Slotted Strut attachment system

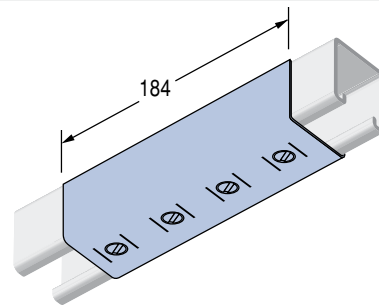


## P2377 - SPLICE FITTING

**Mass:** 25kg/100

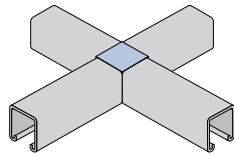
**Finish:** Zinc Plated

For joining together continuous runs of trunking Strut. P2377 external 41 deep, for use with P1000® and P2000 trunking. For P3016 (page 48) Trunking Nuts and for M6 x 15 countersunk head screws should be ordered with each fitting.



## JOINER FITTINGS

Cast aluminium fittings designed to fit inside the Strut section and provide a continuous profile on external surfaces. Fittings are secured to the Strut by a pre-installed screw and washer assembly. Closure strip can be clipped into channel and extended over the fitting to complete a neat installation.



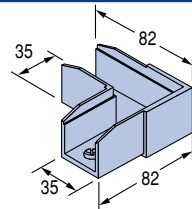
Typical Assembly

## P2902 - TWO WAY

**Mass:** 12kg/100

**Material:** Cast Alveis 2.5mm.

Socket Cup Point Set Screws Included

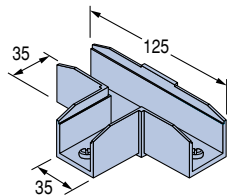


## P2901 - THREE WAY

**Mass:** 15.9kg/100

**Material:** Cast aluminum.

Socket Cup Point Set Screws Included

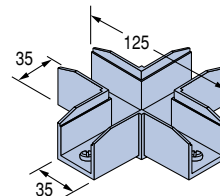


## P2903 - FOUR WAY

**Mass:** 20.4kg/100

**Material:** Cast aluminum.

Socket Cup Point Set Screws Included

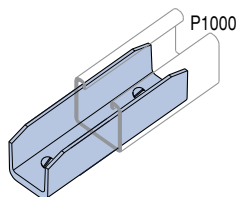


## P2900 - ONE WAY

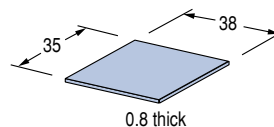
**Mass:** 9.1kg/100

**Material:** Cast aluminum.

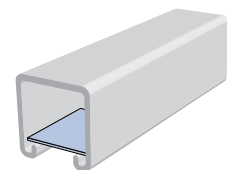
Socket Cup Point Set Screws Included



## P2552 - WIRE RETAINER [FIBRE]









Wire retainer is pushed into Unistrut Channel to support wires until the Closure Strip is installed.

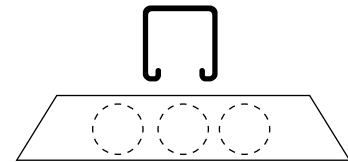


# UNISTRUT® FITTINGS - FLUORESCENT

## LOADING DATA

		1 x 36W 6kg	2 x 36W 9kg	3 x 36W 12kg	4 x 36W 14kg	1 x 58W 8kg	2 x 58W 13kg
							
Unistrut® Strut and Spacing of 1220mm Long Fluorescent Fittings.		Hanger Rod Spacing In Metres					
P1000®	Continuous run of fittings	4.1	3.8	3.6	3.6	3.9	3.5
	Fittings 600mm apart	4.4	4.1	3.9	3.8	4.2	3.9
	Fittings 1200mm apart	4.5	4.3	4.1	4.0	4.4	4.1
P2000	Continuous run of fittings	4.0	3.7	3.4	3.3	3.7	3.4
	Fittings 600mm apart	4.2	3.9	3.7	3.6	4.0	3.7
	Fittings 1200mm apart	4.4	4.2	3.9	3.8	4.2	3.9
P5500	Continuous run of fittings	5.2	4.9	4.6	4.5	5.0	4.6
	Fittings 600mm apart	5.5	5.2	5.0	4.8	5.3	4.9
	Fittings 1200mm apart	5.6	5.4	5.2	5.1	5.5	5.1
P2001	Continuous run of fittings	5.5	5.2	4.9	4.8	5.3	4.8
	Fittings 600mm apart	5.8	5.5	5.3	5.1	5.6	5.2
	Fittings 1200mm apart	6.0	5.7	5.5	5.4	5.8	5.4
P1001	Continuous run of fittings	5.7	5.4	5.2	5.0	5.6	5.1
	Fittings 600mm apart	6.0	5.7	5.5	5.4	5.8	5.4
	Fittings 1200mm apart	6.1	5.9	5.7	5.6	6.0	5.6

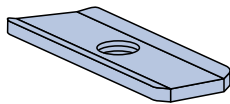
**Note:** Spacings have been calculated to limit section deflections between hangers to approximately 10mm, with sections considered continuous over three spans. For Single spans - multiply spacing by 0.85. For Double spans - multiply spacing by 1.07. For greater than 3 spans - use table above. Spacings have been calculated for Unistrut®, Strut opening on the underside.



## JOINER FITTINGS

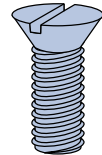
### P3016 - TRUNKING NUTS

**Mass:** 1kg/100  
For the fixing of fittings and accessories 6mm diameter



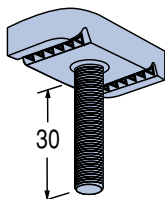
### CKS0615 - COUNTERSUNK HEAD SCREW

**Mass:** 0.3kg/100  
**Size:** M6 x 15



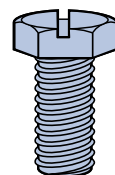
### P3116 - FIXTURE STUD NUT

**Mass:** 3.5kg/100  
**Size:** M6 x 30



### SHS0620 - SLOTTED HEX HEAD SCREW

**Mass:** 0.6kg/100  
**Size:** M6 x 20



## SLIP & PULLOUT PERFORMANCE - ZINC PLATED

Channel Type	Nut Type	Pullout (kN)	Slip (kN)	Torque (Nm)
P1000	P1006	2.67	1.33*	9
	P1007	3.56	2.22*	22
	P1008	4.45	3.56*	44
	P1010	8.9	6.67*	77
P2000	P1006	2.67	1.33*	9
	P1007	3.56	1.78*	22
	P1008	4.45	3.34*	37
	P1010	4.45	4.54*	37
P3300	P4006	2.67	1.33*	9
	P4007	3.56	2.22*	22
	P4008	4.45	3.56*	44
	P4010	6.67	6.67*	77
P4000	P4006	2.67	1.33*	9
	P4007	3.56	1.78*	22
	P4008	4.45	3.34*	37
	P4010	4.45	4.54*	37
P5500	P5508	4.45	3.56*	44
	P5510	8.9	6.67*	77

Load capacities have been calculated in accordance with the provisions of AS/NZS 4600:1996 "Cold-formed steel structures", and in particular, Section 6.2.2.7. The bolting system chosen using the data provided in the tables will perform as specified when design, fabrication and erection are carried out in accordance with Unistrut's recommendations and accepted building practice.

### NOTE

To simplify the table, channel nuts with springs only shown with the exception of P3016. Unistrut® nuts without springs will have identical performance.

Nut design loads include a minimum safety factor of 3.

Figures marked with (\*) in the table opposite were obtained using high strength (Grade 8.8) screws.

Figures not marked with (\*) were obtained using standard strength (Grade 4.6) screws. It should be noted that unless otherwise specified, standard strength screws (Grade 4.6) are supplied.

For Slip Loads using 4.6 Grade Commercial bolts and screws, Contact your local Unistrut® Service Centre.

### HOT DIPPED GALVANISED CHANNEL NUTS

- Apply Pullout Loads as listed
- For Slip Loads - refer to your local Unistrut® Service Centre.

### NOTE

These figures are results obtained from a comprehensive series of tests carried out by a NATA registered laboratory.

For further technical information please contact your nearest Unistrut® Service Centre.

## SLIP & PULLOUT PERFORMANCE - STAINLESS STEEL

Channel Type	Nut Type	Pullout (kN)	Slip (kN)	Torque (Nm)
P1000	P1006SS	2.45	0.2	3.5
	P1007SS	4.41	0.3	8.5
	P1008SS	6.86	0.6	17.0
	P1013SS	6.86	0.6	30.0

### NOTE

Stainless steel grade 316 screws, nuts and channel used to determine loads.

## SLIP & PULLOUT PERFORMANCE - ALUMINIUM LOAD DATA

Approximate beam load capacities for channel sections may be obtained from the engineering data sections in this catalogue. Multiply data by the percentage in the table below.

Nut pullout strength and resistance to slip for sections may be obtained from the engineering data sections in this catalogue. Multiply data by the percentages in the table below.

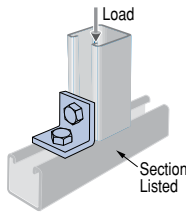
Material	Load Percentage Factor	Slip Percentage Factor	Pullout Percentage Factor
Extruded Aluminium	33%	75%	50%

## ENGINEERING DATA [BEARING AND DESIGN LOAD]

## SAFE BEARING LOADS

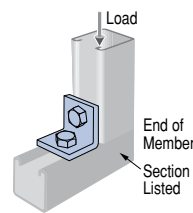
Safety Factor: 2.5

Section	Recommended Load kN
P1000	29.8
P2000	11.2
P3300	30.25
P4000	11.57



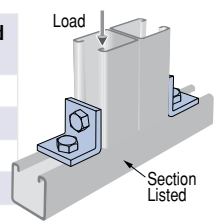
Safety Factor: 2.5

Section	Recommended Load kN
P1000	13.79
P2000	5.34
P3300	14.23
P4000	5.34



Safety Factor: 2.5

Section	Recommended Load kN
P1000	34.25
P2000	13.34
P3300	34.7
P4000	13.34

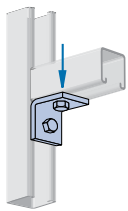


## DESIGN LOAD DATA - TYPICAL STRUT CONNECTION

Safety Factor = 2.5 based on ultimate strength of connection. Load diagrams indicate up to two design loads, one for 2.5mm sections (listed as P1000), and one for 1.6mm sections (P2000). Loads are calculated using high tensile (Grade 8.8) screws.

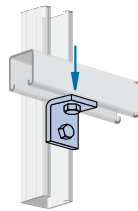
## NINETY DEGREE FITTINGS - (WHEN USED IN POSITION SHOWN)

## P1026



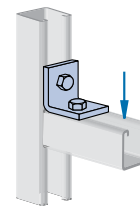
**P1000®:** 6.67kN  
**P2000:** 3.34kN  
 Both Ends Supported

## P1068



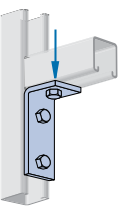
**P1000®:** 2.22kN  
**P2000:** 2.22kN

## P1026



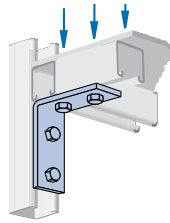
**P1000®:** 4.45kN  
**P2000:** 2.22kN  
 Both Ends Supported

## P1346



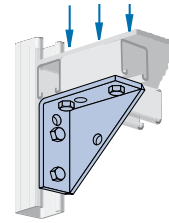
**P1000®:** 8.9kN  
**P2000:** 4.0kN  
 Both Ends Supported

## P1325



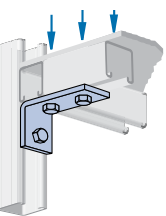
**P1000®:** 8.9kN  
**P2000:** 6.67kN  
 Both Ends Supported

## P2484



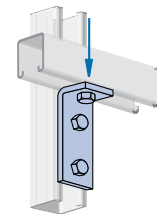
**P1000®:** 13.34kN  
**P2000:** 6.67kN  
 Both Ends Supported

## P1458



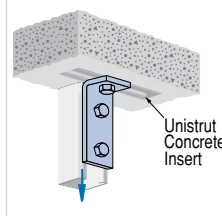
**P1000®:** 6.67kN  
**P2000:** 4.45kN  
 Both Ends Supported

## P1326



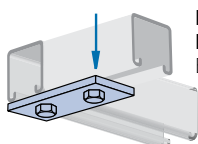
**P1000®:** 2.22kN  
**P2000:** 2.22kN

## P1346



**P1000®:** 5.34kN  
**P2000:** 4.45kN

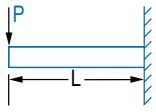
## FLAT PLATE FITTING - P1065



**P1000®:** 4.45kN  
**P2000:** 2.67kN  
 Both Ends Supported



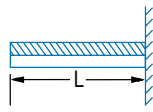
## CANTILEVER BEAMS



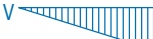
$V \text{ max.} = P$   
 $M \text{ max.} = PL$



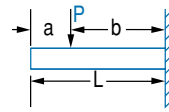
$\Delta \text{ max.} = \frac{PL^3}{3EI}$



$V \text{ max.} = W$   
 $M \text{ max.} = \frac{WL}{2}$



$\Delta \text{ max.} = \frac{WL^3}{8EI}$



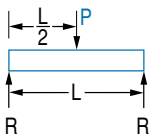
$V \text{ max.} = P$   
 $M \text{ max.} = Pb$



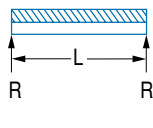
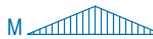
$\Delta \text{ max.} = \frac{Pb^2(3L-b)}{6EI}$



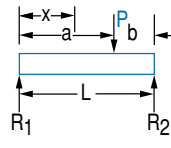
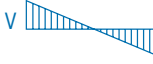
## SIMPLE BEAMS



$R = \frac{P}{2}$   
 $V \text{ max.} = \frac{P}{2}$   
 $M \text{ max.} = \frac{PL}{4}$   
 $\Delta \text{ max.} = \frac{PL^3}{48EI}$



$R = \frac{W}{2}$   
 $V \text{ max.} = \frac{W}{2}$   
 $M \text{ max.} = \frac{WL}{8}$   
 $\Delta \text{ max.} = \frac{5WL^3}{384EI}$



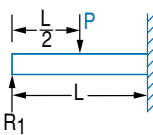
$R_1 = \frac{Pb}{L}$   
 $R_2 = \frac{Pa}{L}$   
 $V \text{ max.} = \frac{Pa}{L}$   
 $M \text{ max.} = \frac{Pab}{L}$



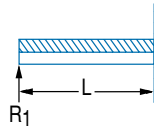
$\Delta \text{ max. at } x = \sqrt{\frac{a(a+2b)}{3}}$

$\Delta \text{ max.} = \frac{Pab(a+2b)}{27 EIL} \sqrt{\frac{3a(a+2b)}{3}}$

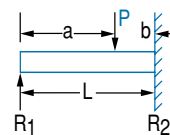
## BEAMS FIXED ONE END, SUPPORTED AT OTHER



$R_1 = \frac{5P}{16}$   
 $V \text{ max.} = \frac{11P}{16}$   
 $M \text{ max.} = \frac{3PL}{16}$   
 $\Delta \text{ max. at } x = 0.447L$   
 $\Delta \text{ max.} = 0.009317 \frac{PL^3}{EI}$



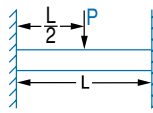
$R_1 = \frac{3W}{8}$   
 $V \text{ max.} = \frac{5W}{8}$   
 $M \text{ max.} = \frac{WL}{8}$   
 $\Delta \text{ max. at } x = 0.4215L$   
 $\Delta \text{ max.} = \frac{WL^3}{185EI}$



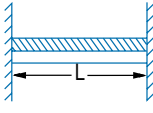
$R_1 = \frac{Pb^2}{2L^3} (a + 2L)$   
 $R_2 = \frac{Pa^2}{2L^3} (3L^2 - a^2)$   
 $M \text{ at point of load} = R_1 a$   
 $M \text{ at fixed end} = \frac{Pab}{2L^2} (a + L)$



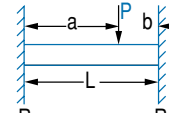
## BEAMS FIXED AT BOTH ENDS



$V \text{ max.} = \frac{P}{2}$   
 $M \text{ max.} = \frac{PL}{8}$   
 $\Delta \text{ max.} = \frac{PL^3}{192EI}$



$V \text{ max.} = \frac{W}{2}$   
 $M \text{ max.} = \frac{WL}{12}$   
 $\Delta \text{ max.} = \frac{WL^3}{384EI}$



$R_1 = \frac{Pb^2}{L^3} (3a + b)$   
 $R_2 = \frac{Pa^2}{L^3} (a + 3b)$   
 $M_1 = \frac{Pab^2}{L^2}$   
 $M_2 = \frac{Pa^2b}{L^2}$



R - Reaction  
 M - Moment (Nmm)  
 P - Concentrated load (N)

W - Total uniform load (N)  
 V - Shear  
 L - Length (mm)

$\Delta$  - Deflection (mm)  
 E - Modulus of Elasticity (MPa)  
 I - Moment of Inertia (mm<sup>4</sup>)

UNISTRUT®

## ENGINEERING DATA [CONVERSION FACTORS]

## DESIGN LOAD DATA - TYPICAL STRUT CONNECTION

Load tables in this catalogue for 41mm Strut width series are for single span beams supported at the ends. These can be used in the majority of cases. There are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown in Table 1. Simply multiply the loads from the Beam Load Tables by the load factors given in Table 1. Similarly, multiply the deflections from the Beam Load Tables by the deflection factor given in Table 1.

TABLE 1

Load and Support Condition		Load Factor	Deflection Factor
1	Simple Beam - Uniform Load	1.00	1.00
2	Simple Beam Concentrated Load at Centre	0.50	0.80
3	Simple Beam - Two Equal Concentrated Loads at 1/4 Points	1.00	1.10
4	Beam Fixed at Both Ends - Uniform Load	1.50	0.30
5	Beam Fixed at Both Ends - Concentrated Load at Centre	1.00	0.40
6	Cantilever Beam - Uniform Load	0.25	2.40
7	Cantilever Beam - Concentrated Load at End	0.12	3.20
8	Continuous Beam - Two Equal Spans - Uniform Load on One Span	1.30	0.92
9	Continuous Beam - Two Equal Spans - Uniform Load on Both Ends	1.00	0.42
10	Continuous Beam - Two Equal Spans - Concentrated Load at Centre of One Span	0.62	0.71
11	Continuous Beam - Two Equal Spans - Concentrated Load at Centre of Both Spans	0.67	0.48




## UNISTRUT® COLUMN LOADING

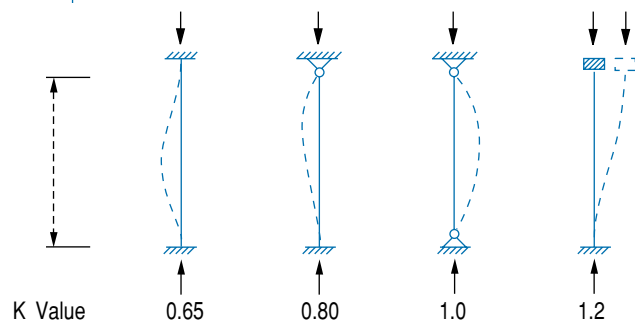
The strength of axially loaded columns or compression members is, in part, dependent on the end conditions, that is, the degree of end fixity or restraint. A column with both ends fixed will support more load than one with both ends free or pin-ended.

Column loads published for UNISTRUT® sections in this catalogue are offered as a guide and assume a partially fixed end condition as usually found in flat ended columns that are laterally tied and braced, i.e.  $K = 1.0$ .

Assumed K values (effective length factors) for columns with varying end restraints are as follows:

## END CONDITION CODE

-  Rotation fixed and translation fixed
-  Rotation free and translation fixed
-  Rotation fixed and translation free



## HOW TO USE LOAD TABLES

### UNISTRUT® SECTIONS AS BEAMS

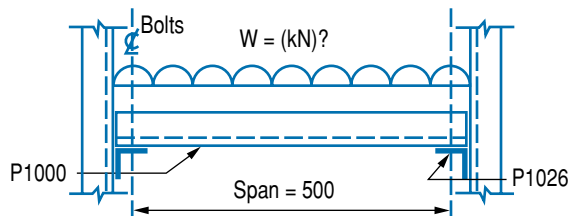
The load capacity of Unistrut® members acting as a horizontal beam, between two vertical Unistrut® members acting as columns, is governed by:

- the nature of the load.
- the particular section to be used.
- the span of the beam.
- the beam-load capacity of the section for a given span.
- the load capacity of the connectors used to support the beams on the columns.
- the load limitations, if any, resulting from special deflection considerations.

If items a), b) and c) are known, the load capacity is the smallest value of d), e), and f) as read or derived from the listed values in the appropriate tables.

### EXAMPLE 1

What is the uniformly distributed load capacity of a P1000® section used as a beam to span 500mm if P1026 connectors are used to support the beam?



#### STEP 1

- Find beam load at maximum permissible stress.
- From P1000® Beam and Column in load table page 24, 500mm and Section P1000®,  $W = 7.42\text{kN}$ .

#### STEP 2

- Find load capacity of connectors.
- From Safe Bearing Loads in load table on page 50, for P1000 section supported on P1026 connectors; Support load = 6.67kN  
Beam load = 2 x support load = 2 x 6.67 = 13.34kN.

#### STEP 3

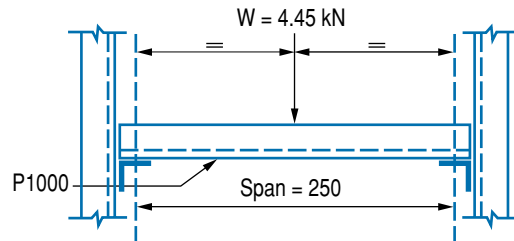
- Check deflection limitations.
- No special deflection considerations apply.

#### STEP 4

- Select smallest load value from Step 1 to 3.
- Smallest value is 7.42kN.
- To convert to mass units divide by 0.0098, hence load capacity  $W = 7.42 / 0.0098 = 757\text{kg}$  uniformly distributed.

### EXAMPLE 2

A beam of 250mm span is to carry a central point load of 4.45kN. Check if P1000® section is a satisfactory beam and if so, what type of connector should be used for supports and what is the resultant central deflection?



#### STEP 1

- Convert point load to equivalent uniformly distributed load by multiplying by 2 (see note on point loads).
- Equivalent U.D.L. =  $4.45 \times 2 = 8.9\text{kN}$ .

#### STEP 2

- Compare with beam load capacity for P1000® section spanning 250mm. From P1000® Beam and Columns in this Tab Section. Tabulated value = 14.83kN.
- Since this is greater than load to be applied, the P1000® section is satisfactory.

#### STEP 3

- Determine support loads, which are each half the applied load. Support load = 2.23kN.

#### STEP 4

- Select appropriate connector from Safe Bearing Loads in this Tab Section.
- Recommended load for P1026 supporting P1000® = 6.67kN.
- As the P1026 connectors exceed the required support load of 2.23kN, use P1026 connectors at each end.

#### STEP 5

- Calculate central Deflection of beam from

$$\delta_2 = (W_2 / W_1) \times (L_2 / L_1)^3 \times \delta_1$$

(See P1000® Elements of Section, Page 24)

- From Beam load table for P1000 section with  $L_1 = 250\text{mm}$ ,  $W_1 = 14.83\text{kN}$  and  $\delta_1 = 0.22\text{mm}$
- From example data and step 1 above  $W_2 = 8.9\text{kN}$ ,  $L_2 = 250\text{mm}$
- Substituting values in formula  
 $\delta_2 = (8.9/14.83) \times (250/250)^3 \times 0.22 = 0.14\text{mm}$

As this is the value for the equivalent uniformly applied load a correction is necessary to account for a central point load. This is done by multiplying the uniform load deflection by 0.8 (see Notes to Tables). Hence deflection under applied point load:

$$= 0.14 \times 0.8 = 0.11\text{mm}.$$

## HOW TO USE LOAD TABLES

### UNISTRUT® SECTIONS AS COLUMNS

The load capacity of Unistrut® Sections acting as columns depends on:

- the particular section used.
- the actual height of the column, measured between centres of connections to horizontal members.
- the location of the resultant axial load with respect to the centre of gravity, CG, of the section (i.e. the intersection of the XX and YY axes as shown on the section diagrams).
- the restraint to various kinds of movements of the column offered by the connections to horizontal members at various levels.

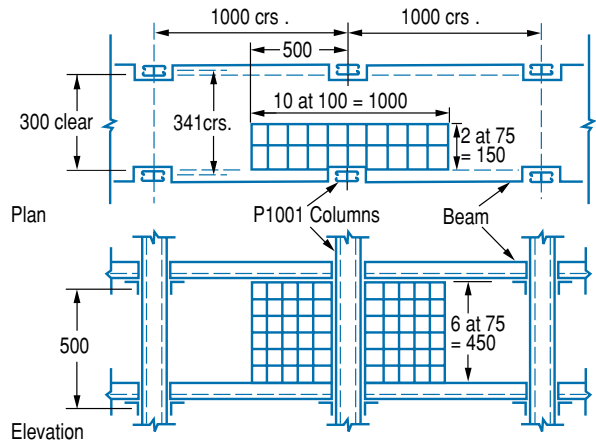
If a) and b) are known and if c) and d), for the case being considered, match the conditions in Structural Data Notes then the load capacity of the section can be read directly from the tables under 'maximum column load'.

It is emphasised that, for tabulated values to be used directly, the resultant load must be concentric (i.e. act through the C.G.) and connections at each end of a free column height must restrain those ends from both horizontal and torsional movement. If these conditions do not apply, reference should be made to the appropriate sections of AS/NZS 4600 since it is most likely that a smaller value than the listed one should be used.

### EXAMPLE 3

Island-type storage shelving is to be constructed using P1001 main posts (columns) at 1000 x 341mm centres. Shelves are to be at 500mm vertical spacing starting from the floor and connected to the posts so that concentric loading and translational and torsional restraint are provided at each level under full load conditions.

If the shelves are to carry packages of bolts stacked six high per shelf and the packages measure 75 x 75 x 100mm with a mass of 6.5kg each, what is the maximum height (number) of shelving that can be used?



#### STEP 1

- Determine Concentric load for shelf.
- Plan area supported by each main column  
= 1000 x 150 = 150,000mm<sup>2</sup>
- This area can be packed with 20 packages
- 75 x 100mm in plan i.e. 120 packages per shelf.

$$\begin{aligned} \text{Hence mass per shelf} &= 6.5 \times 120\text{kg} \\ \text{and load per shelf} &= 6.5 \times 120 \times 0.0098 \\ &= 7.64\text{kN per column.} \end{aligned}$$

#### STEP 2

- Determine load capacity of P1001 section.
- From P1001 Beams and Columns Table on page 24 for P1001 with height 500mm.
- Maximum column load = 94.09kN.

#### STEP 3

- Determine number of shelves.
- Divide column load capacity by the load per shelf.  
i.e. Number of shelves = 94.09 / 7.64 = 12.31
- Hence maximum number of shelves = 12  
i.e. max. height of shelving  
= 12 x 0.5 = 6.0 metres.

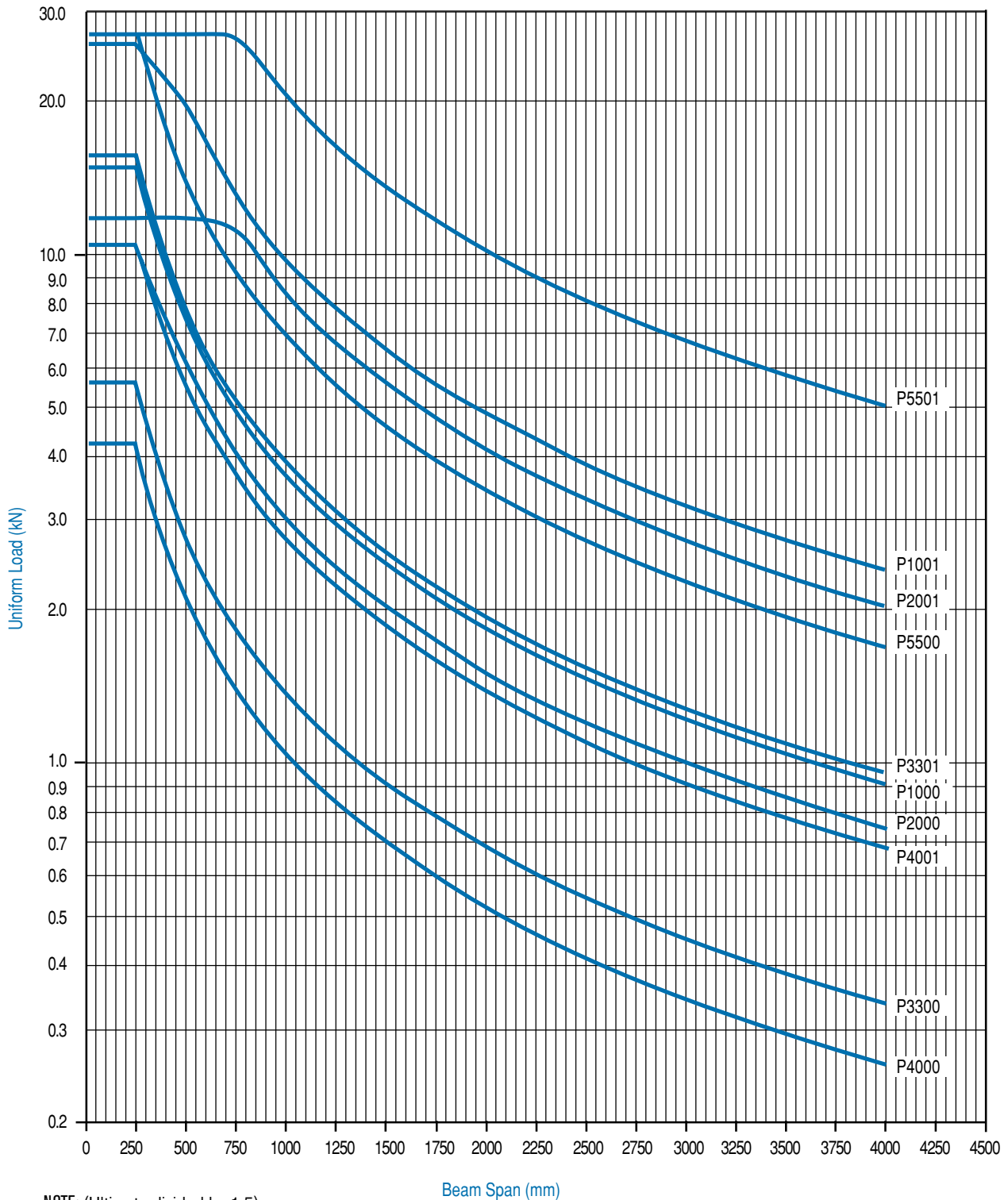
#### NOTE

If the bottoms of the columns bear onto P1000® bearers, which in turn are fixed to the ground, the load capacity of the column would be determined by the Recommended Bearing Load, (refer to Safe Bearing Loads in this Tab Section) of 34.25 kN.

The number of shelves would then be given by:  
34.25 / 7.64 = 4.48  
i.e. 4 shelves, totalling 2.0 metres high.

# UNISTRUT® ENGINEERING DATA [LOAD CHART]

## UNIFORM WORKING LOAD FOR SIMPLY SUPPORTED BEAMS



NOTE: (Ultimate divided by 1.5)

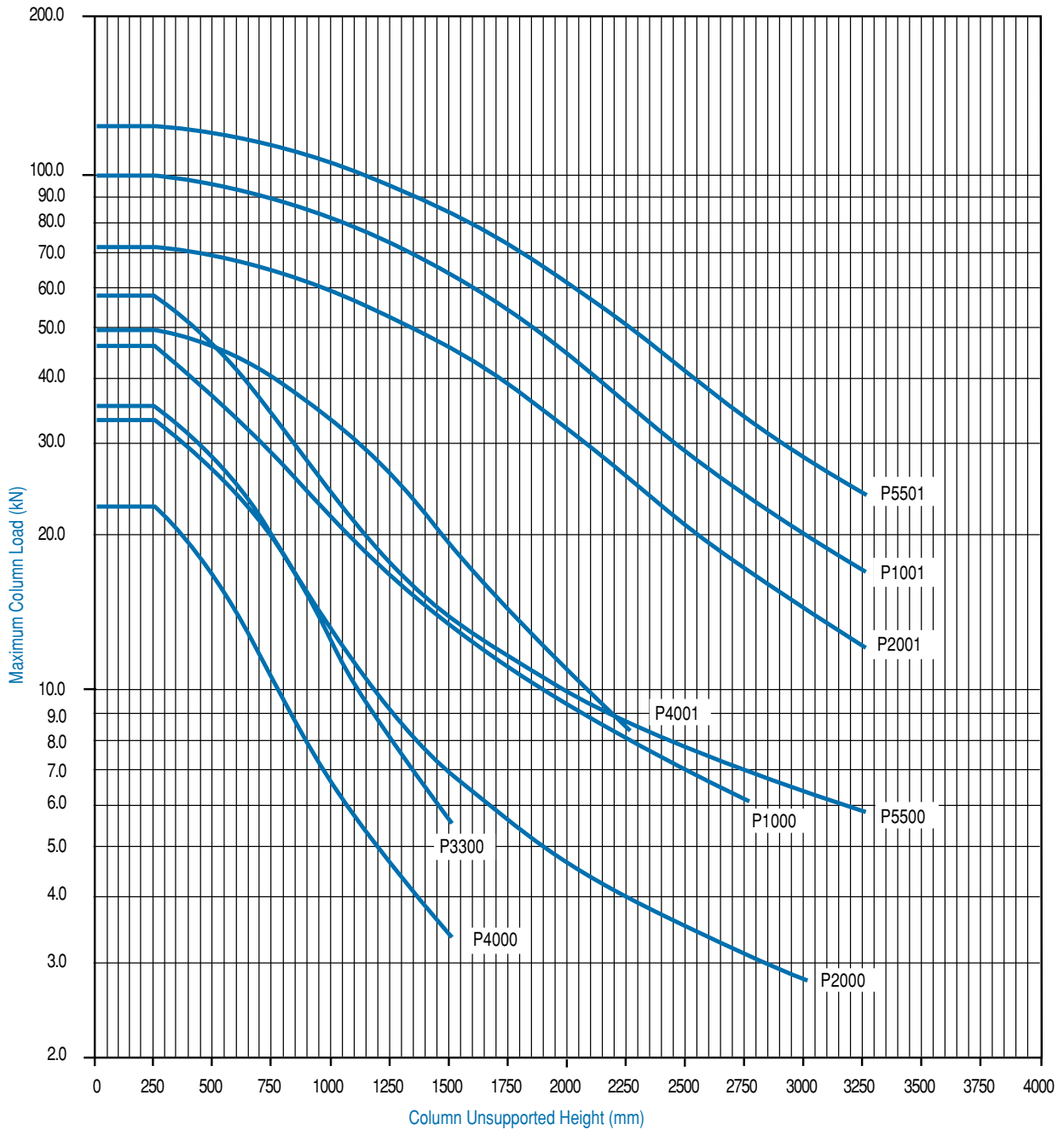
**Note:** (Ultimate divided by 1.5)

# UNISTRUT® ENGINEERING DATA [LOAD CHART]

STRUT SYSTEMS

ENGINEERING DATA

## UNIFORM WORKING COLUMN LOADS



NOTE: (Ultimate divided by 1.5)

**Note:** (Ultimate divided by 1.5)

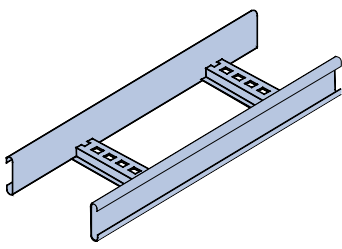
# NEMA CABLE LADDER - GENERAL INFORMATION

Unistrut® also manufactures and markets the largest range of cable ladder systems for the Australasian Electrical Industry. This extensive range of cable ladder support systems includes a comprehensive range of steel and aluminium cable ladders load rated to NEMA Standard VE1. Steel cable ladders can be manufactured to side-rail in or side-rail out configuration depending on the project requirements.

In cases where extremely high corrosion resistance is required, stainless steel cable ladder systems are available by special order. All Unistrut® Cable Ladder systems are complemented with a complete range of accessories: Horizontal Bends, Internal and External Risers, Tees, Crosses, Reducers, Hinged Horizontal and Vertical Splices, Adjustable Risers, Covers, Divider Strip, Adjustable Cantilever Support Brackets and Cable Clamps.

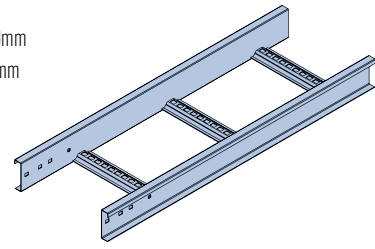
**NEMA 12B - STEEL**

**Length:** 4m / 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 44mm



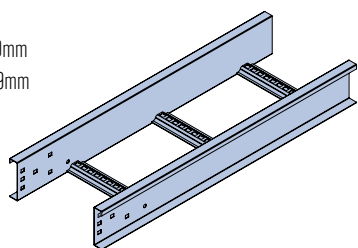
**NEMA 16A - STEEL**

**Length:** 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 72mm



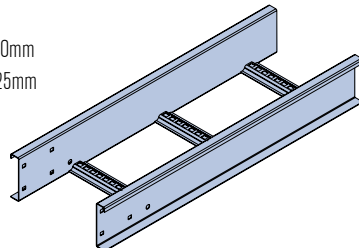
**NEMA 20B - STEEL**

**Length:** 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 109mm



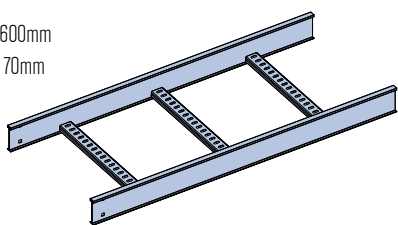
**NEMA 20C - STEEL**

**Length:** 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 125mm



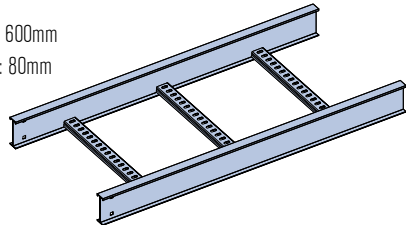
**NEMA 12 - ALUMINIUM**

**Length:** 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 70mm



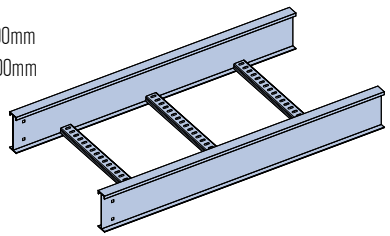
**NEMA 16 - ALUMINIUM**

**Length:** 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 80mm



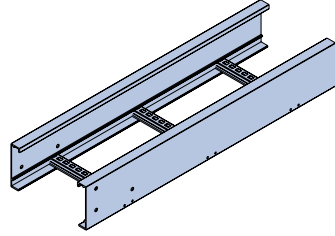
**NEMA 20 - ALUMINIUM**

**Length:** 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 100mm



**NEMA 20C - ALUMINIUM**

**Length:** 6m  
**Width:** 150, 300, 450, 600mm  
**Cable Laying Depth:** 125mm





# NEMA CABLE LADDER - GENERAL INFORMATION

The following notes are presented in order to assist users to achieve maximum economy and convenience with the installation of cable support systems. As each application will have its own particular conditions and requirements, it is recommended that the services of Unistrut® sales personnel and engineering team be engaged, especially in the early stages of any major project, so that the best overall result can be achieved.

## STANDARD SIZES

Standard ladder widths are 150mm, 300mm, 450mm and 600mm, being the inside dimension between side-rails and is the maximum width available for carrying cables. Straight lengths are 6m long. Standard rung spacing on all systems is 300mm nominal.

Each of the Unistrut® systems includes a full range of standard accessories, with a nominal radius of 300mm, 450mm and 600mm, depending on the system load class. Non-standard ladder widths and accessory radii can be manufactured by special order. Non-standard products are non-returnable and non-refundable.

## LOAD CAPACITY

**a) Cable Load** – Because the cable density remains fairly constant in a total installation, the widest ladders carry the most load, and each smaller width carries proportionately less load. However, the load carrying capacity of any class of ladder is independent of the width.

For details on how safe working loads are determined, refer to the NEMA VE 1 Standard and to the published load graphs for allowable loads of each ladder type.

**b) Fixed Ladder Spans** – It is commonly found that the building structure supporting the cable ladders will dictate the span, but it is still possible to exercise some choice. Where the cabling is heaviest, and this is not usually extensive, it is possible to use two 300mm wide ladders side by side instead of one 600mm wide, in order to select a lighter category of ladder for the total project. It is often inconvenient to use more than one ladder category in the same installation.

**c) Varying the Spans** – Where the structure does not dictate the ladder span, the heaviest cable runs could be supported more frequently, again enabling a lighter category of ladder to be chosen.

## CABLE LAYING DEPTH

Each of the Unistrut® Cable Ladder has a different cable laying depth. It is a general rule that the shallower the ladder, the lower the cost per metre and the more frequently it needs support. It is sometimes found that the lightest, most economical ladders are excluded from consideration solely because a particular minimum cable laying depth is required and has been specified accordingly.

## DEFLECTION

Cable ladders are essentially structural members designed to strength requirements only and are required to support pliable load elements. Therefore, the control of deflection is not necessary for durability or stability reasons and can probably only be justified on purely aesthetic grounds. If normally accepted deflection limits such as 1/360th of span are imposed, the resultant cable ladder will be grossly overdesigned and correspondingly expensive.

There may still be locations where the designer wishes to limit visual deflection. For example, prestige areas which may be open to public view or where the ladder is installed at eye level and deflection is accentuated. If these conditions exist, it is recommended that closer support spacings be used only in those important locations (to control visual deflection) and normal support spacings elsewhere (for economy). A maximum of 1/180th of span, when deflection is determined from the graphs published in this catalogue, should prove a satisfactory limit for visual deflection.

Otherwise, wherever overall economy is the principal consideration, no limits should be placed on deflection. This does not mean that deflection will be excessive but simply that a typically acceptable installation will result and optimum economy will be attained.

## MATERIAL SELECTION

Often the most difficult decision to be made is the selection of material, because it involves the most cost-sensitive of compromises. Material choice is directly related to service life and the longer the required life, the more expensive will be the materials. The cost of these materials also must be considered as an equation of initial investment versus maintenance costs and eventual replacement.

Because service conditions for cable ladders can vary over an enormously wide range, even within a single installation, it is impossible to write down any hard and fast rules on the subject of corrosion and expected lifespan. The following may be considered a guide as to what can be expected from the various materials and finishes currently available for cable support systems.

- a) Galvanised Steel** – Hot-dipped galvanised steel (after fabrication) is a common selection, as it is economical to purchase and suitable for most conditions of outdoor exposure. For indoor applications, or anywhere that is essentially free from moisture, galvanised ladders can be considered to have an indefinite life. That is, they should last as long as the plant, building, cabling or equipment which they service.

On a typical industrial or processing plant installation, exposed to weather, moisture and airborne industrial pollution, a basic life of approximately ten years can be expected. This is not to say that the ladder will be completely corroded in that time, but it is the probable life of the corrosion protection finish. Beyond that time, rapid decay can be expected and maintenance costs will increase substantially in order to keep the ladders serviceable.

The ten year life quoted here should be adjusted up or down depending on the circumstances. For example, if installed near the coast, the effect of salt laden air may shorten the expected life. Also galvanising is sensitive to some chemicals, especially sulphurous compounds, which may be intrinsic to plant operations where the ladder is installed. Correspondingly, a longer life will be expected in lighter industrial situations and if drier conditions exist.

- b) Aluminium** – Aluminium is also a popular choice of material for cable ladders. Most frequently it is selected because of its excellent performance in marine environments such as is found on wharves, coal loaders or similar Port Facilities where salt spray or salt laden atmosphere is present. Another reason for using aluminium is that it offers a long maintenance free life which is important in cases where access for future painting or repairs may be costly and difficult.

For any given load class or capacity, aluminium cable ladders are more expensive than their galvanised steel counterparts. Aluminium ladders can also be expected to have a greater deflection than an equivalent steel system. On the other hand, they are lighter, more readily handled and are easy to work with, resulting in faster installation and therefore lower installation cost.

Aluminium cable ladders can be expected to have a lifespan well in excess of twenty years in most industrial or marine applications. The exception would be in the case of a local concentration of chemicals which are detrimental to aluminium.

Alkaline compounds or fumes is a common example but if any doubt exists, the advice of aluminium suppliers should be sought.

- c) Powder Coating or Paint Systems:**

### 1. Coating on bare steel.

Painting over bare steel is not generally recommended for cable ladders. This comment applies to virtually all types of 'organic' or non-metallic coatings such as powder coatings, polyesters, PVC or nylon. Although these coatings are resistant to a wide variety of chemicals, their effectiveness on cable ladders can be limited. The non-sacrificial nature of paint films means that anywhere the coating is broken, corrosion is permitted to obtain a foot-hold. It is then able to spread rapidly underneath the paint, lifting it off and allowing corrosion to progress even further.

If it is decided to use a paint or powder coating on bare steel, then before commissioning, a compatible repair paint should be used to make good any places on the ladder installation that may have been damaged during erection.

### 2. Coating over galvanised Steel or Aluminium

Application of paint systems over either of the above materials is obviously a more expensive approach, but in some circumstances it is the only answer. If ladders are installed in close proximity to acid tanks, process vats, steam pipes or similar situations, there may be no metallic finish capable of giving satisfactory service life. This can be overcome by the application of a suitable paint or powder coating over galvanised or aluminium base materials. Naturally, in order to contain costs, the additional finish need only be applied to those sections of the work which are effectively exposed to the corrosive fumes.

- d) Stainless Steel** – Stainless Steel is sometimes considered as a material for cable ladders, usually where extremely high corrosion resistance, coupled with difficulty of servicing after installation and a high degree of reliability are essential requirements. An off-shore oil drilling platform may be one example where these conditions exist.

# NEMA CABLE LADDER - GENERAL INFORMATION

## THE NEMA STANDARDS

NEMA STANDARD VE 1 is published by the National Electrical Manufacturers Association in the U.S.A. The Standard provides for the technical requirements of construction, performance and testing of cable ladder tray systems. It is regularly revised by the Association in order to keep pace with technology and the ever changing requirements of the manufacturers, contractors, consultants and other users throughout the electrical industry.

There is presently no Australasian Standard governing cable support systems. Despite the existence of other versions from places such as Canada and Europe, the NEMA VE 1 is by far the most widely accepted and the best known Standard for cable supports in Australia. In recognition of this situation, and in order to produce cable ladders of known quality and load capacity, Unistrut® has adopted a policy of constructing and rating its cable support products in accordance with the VE 1 Standard wherever possible. This policy is reflected in the name and various class designation numbers now used by Unistrut® which are drawn directly from the Standard.

For example NEMA Class 12B, 16A or 20B. Please note that in most cases Unistrut® ladders exceed the minimum strength requirements of each ladder class and therefore the published load graphs should be consulted in order to find the actual safe load capacity for each ladder type.

The more important aspects of the NEMA Standard VE 1 which are relevant to Unistrut® products are described as follows:

### 1. LOAD CAPACITY AND SAFETY FACTOR

Safe working loads are required to be determined as a result of testing a series of sample ladders. Tests must be conducted as simple spans (i.e. the worst case for loading) and over various span lengths with a safety factor of 1.5 against the collapse load of the ladder. In this way, loads are based on average performance of a number of samples and not just a single test or some calculations. The Standard does not permit working loads to be determined by calculation because it has proven to be too unreliable. Cable ladders are specialist products which are unconventional in the structural sense. That is, they have an unusual combination of slenderness, local buckling of thin material and overall lateral restraint elements which are not satisfactorily interpreted by normal design methods.

### 2. DEFLECTION

The NEMA Standard VE 1 does not specify any limitation on the deflection of cable support members. To do so, would inevitably result in an over-designed (and hence uneconomical) system. For further information on deflection please refer to notes under Guidelines for Ladder Selection.

### 3. ELECTRICAL CONTINUITY

The electrical resistance of connections is limited to a maximum of 330 micro-ohms. Representative samples of Unistrut® splice joints (both steel and aluminium) as well as the run to side-rail joint in aluminium ladders have been tested by an Independent Electrical Laboratory, and in all cases were found to comply with the NEMA Standard VE 1 specification.

## EXPLANATION OF NEMA VE 1 LOAD/SPAN CLASS DESIGNATIONS

The NEMA VE 1 rating method is based on the Imperial system of measurement, as follows:

1. The numerals indicate the ladder span in feet.

8 = 8ft (2.4m)

12 = 12ft (3.6m)

16 = 16ft (4.8m)

20 = 20ft (6.0m)

2. The letter indicates the working load category.

A = 50lbs/lin.ft (75kg/m)

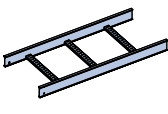
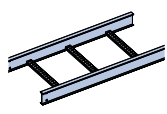
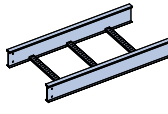
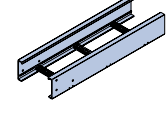
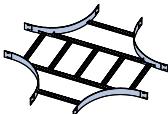
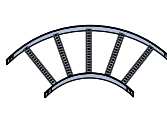
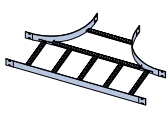
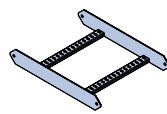
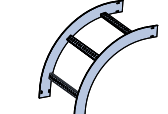
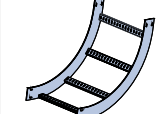
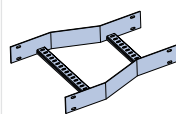
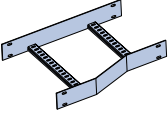
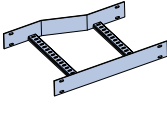


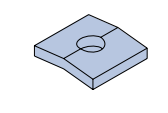
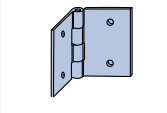
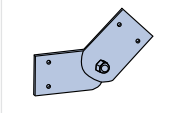
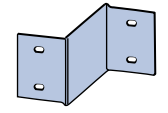
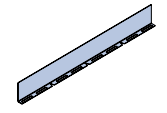
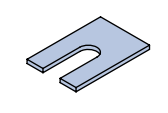
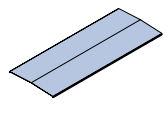
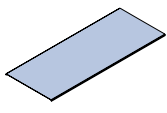
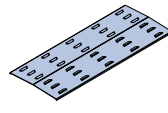
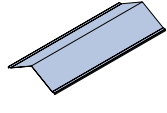
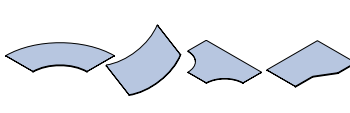
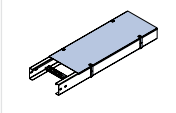
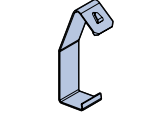
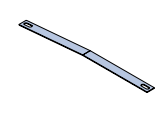
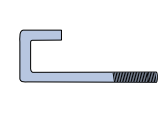
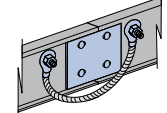
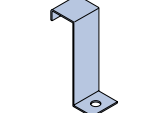
B = 75lbs/lin.ft (112kg/m)

C = 100lbs/lin.ft (149kg/m)

Example: A 20B class ladder requires a minimum safe working load of 75lb/ft. over a 20ft. span. (ie. 112kg/m over a 6.0m span)

STEEL CABLE LADDER						
NEMA 12B - STEEL (RAIL OUT) PG. 64	NEMA 16A - STEEL (RAIL OUT) PG. 65	NEMA 16A - STEEL (RAIL IN) PG. 65	NEMA 20B - STEEL (RAIL OUT) PG. 66	NEMA 20B - STEEL (RAIL IN) PG. 66	NEMA 20C - STEEL (RAIL OUT) PG. 67	NEMA 20C - STEEL (RAIL IN) PG. 67
STEEL CABLE LADDER SHAPES AND ACCESSORIES						
CROSS PG. 68	FLAT BEND 90° PG. 68	TEE PG. 68	ADJUSTABLE RISER PG. 69	EXTERNAL RISER - 90° PG. 69	INTERNAL RISER - 90° PG. 69	OFFSET REDUCER, LEFT HAND PG. 70
OFFSET REDUCER, RIGHT HAND PG. 70	STRAIGHT REDUCER PG. 71	REDUCER SPLICE PG. 71	SPLICE PLATE PG. 72	HINGED HORIZONTAL SPLICE PLATE PG. 72	HINGED VERTICAL SPLICE PLATE PG. 72	HOLD DOWN BRACKETS PG. 72
DIVIDER STRIP PG. 72						
STEEL CABLE LADDER COVERS AND COVER FIXINGS						
STANDARD COVER PG. 75	FLAT COVER PG. 75	VENTILATED COVER PG. 75	PEAKED COVER PG. 75	ACCESSORY COVERS PG. 76		COVER FIXINGS PG. 76
SS CLIPS PG. 77	HDG CLAMPS PG. 77	COVER STRAPS (HG) PG. 77	HOOK BOLT & WING NUT (MG) PG. 77	EARTH KIT PG. 77		

# NEMA CABLE LADDER SUPPORT SYSTEMS - PICTORIAL INDEX

ALUMINIUM CABLE LADDER						
						
NEMA 12A STRAIGHT LADDER	NEMA 16 STRAIGHT LADDER	NEMA 20 STRAIGHT LADDER	NEMA 20C STRAIGHT LADDER			
PG. 79	PG. 80	PG. 81	PG. 82			
ALUMINIUM CABLE LADDER SHAPES AND ACCESSORIES						
						
CROSS	FLAT BEND - 90°	TEE	ADJUSTABLE RISER	EXTERNAL RISER - 90°	INTERNAL RISER - 90°	STRAIGHT REDUCER
PG. 83	PG. 83	PG. 83	PG. 84	PG. 84	PG. 84	PG. 85
						
OFFSET REDUCER - LEFT HAND	OFFSET REDUCER - RIGHT HAND	SPLICE PLATE	EXPANSION HOLD DOWN BRACKET	RIGID HOLD DOWN BRACKET	HINGED HORIZONTAL SPLICE	HINGED VERTICAL SPLICE
PG. 85	PG. 85	PG. 86	PG. 86	PG. 86	PG. 86	PG. 86
						
REDUCER SPLICE	DIVIDER STRIP	INTERFACE SPACER				
PG. 86	PG. 86	PG. 86				
COVERS AND COVER FIXINGS						
						
STANDARD COVER	FLAT COVER	VENTILATED COVER	PEAKED COVER	ACCESSORY COVERS	COVER FIXINGS	
PG. 88	PG. 88	PG. 88	PG. 88	PG. 89	PG. 89	
						
SS CLIPS	COVER STRAPS [HG]	HOOK BOLT & WING NUT [MG]	EARTH KIT	Z HOLD DOWN BRACKET		
PG. 90	PG. 90	PG. 90	PG. 90	PG. 90		

# UNISTRUT®

## NEMA CABLE LADDER - STEEL

### STEEL CABLE LADDER (SCL)

Galvanised steel cable ladders are the most popular format for cable support systems as they afford a good combination of cost, strength and service life. Unistrut® manufactures a complete range of NEMA Steel Cable Ladder systems. These systems provide a wide range of load and span combinations to suit the requirement of almost any installations.

Side-Rail Alternative - With the exception of Nema 12B, all other ladder systems are available with the side-rails turned outward (as standard), or inward to meet varying client specifications.

All ladder systems are load rated to NEMA Standard VE 1.

Stainless Steel - In cases where extremely high corrosion resistance is required, stainless steel cable ladder may be the only solution. All steel cable ladder systems are available in stainless steel on special order only. For load and deflection calculations, contact your local Unistrut® Service Centre.

### SPLICE PLATES

**16A, 20B and 20C Systems** - Unistrut® steel splice plates are of a robust and practical design. The neat fitting flanges and bolted configuration of Unistrut® splices also reduce deflection at joints as the ladder is loaded. Unsightly dips or discontinuities along the ladder run are therefore avoided. Bolt holes in splice plates and ladder side-rails are elongated so that site misalignments as well as thermal expansion and contraction are catered for.

**12B Systems** - The 12B splice plate incorporates virtually all of the working features as described for the 16A, 20B and 20C ladders, but because the 12B is a lighter duty system, a simplified splice design is used.

Requiring only two fixing bolts and eliminating the need for matching holes in the side-rail, the 12B splice plate is convenient in use and extremely fast to install.

### Notes

*Electrical resistance across splice joints is less than the 330 micro-ohms limit specified by NEMA Standard VE 1.*

*To attain maximum working load of the system, the following recommendations should be adopted.*

- Do not splice single spans of ladder.
- Avoid splice joints in the vicinity of the end supports on continuous runs.
- Avoid splice joints directly over intermediate supports on continuous runs.
- Locate splice joints at the quarter span point between supports on continuous runs.

*If in doubt, please consult your Unistrut® Service Centre.*

### ACCESSORIES

All Unistrut® steel cable ladder systems are complemented by a full range of standardised fabricated accessories and fittings which are readily available. All are of a welded construction.

**Built-in Splice** - The principal feature of all Unistrut® cable ladder accessories is the 'built-in' splice plate. A shaped extension of the accessory side-rail permits direct connection to the straight ladder eliminating the need for a separate splice component.

The advantages of this method are:

- Minimised fixing hardware and components.
- When joining to a cut ladder, the accessory end acts as a convenient drill template for bolt holes.
- Simplifies pre-planning, quantity take-offs and ordering.
- No left-over components.
- Strong and rigid joint.
- Faster installation.

Accessories are attached with the same fasteners as used for straight splice plates.

Threaded fasteners are hot dipped galvanised.

Elongated slots allow easier fit-up and permit adjustments in alignment to be absorbed.

### CONSTRUCTION

Unistrut® steel cable ladders are manufactured from steel to AS/NZS1594 "Hot-Rolled Steel Flat Products," which are cold roll formed to the desired shape. The roll forming process improves the mechanical properties of the metal whilst the special lipped strut section is designed to give the best possible combination of strength-to-weight, lateral rigidity and low deflection. The rungs are fillet welded to the side-rails which further improves the overall stability as well as strength of the finished product. The rung joint is so designed that galvanising can be effected to all areas.

Ladders, accessories and other galvanised components are hot-dipped galvanised to AS/NZS 4680 / BS EN ISO 1461 after fabrication.

# UNISTRUT® NEMA 12B CABLE LADDER - STEEL

## TECHNICAL DATA

**Cable Laying Depth:** 44mm

**Loading Data:**

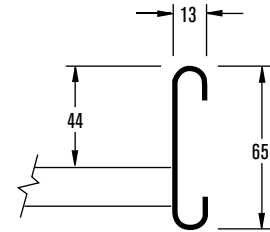
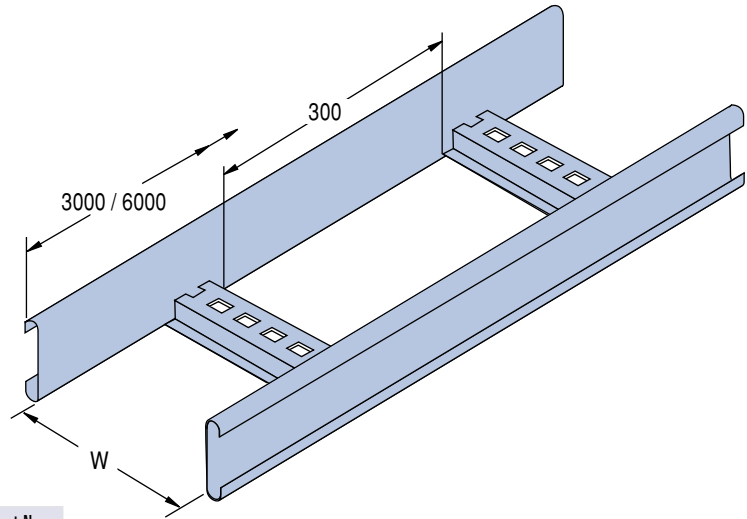
Basic Load Capacity  
112kg/lin.m on 3.6m span

**Length:** 4m & 6m

**Rung Spacing:** 300mm nominal

**Standard Finish:** Hot Dipped Galvanised

Also available in Stainless Steel  
(3m length, part no. LUE)

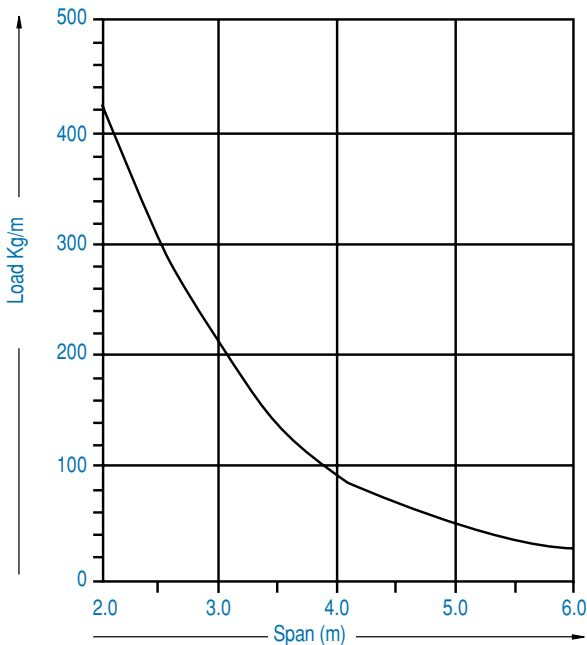


## PARTS LIST

Dim "W"	Type	Part No HG 4m	Part No HG 6m	Part No 316 SS 3m	Part No 316 SS 6m
150	12B	LEE101	LEE1016	LUE1013	LUE1016
300	12B	LEE103	LEE1036	LUE1033	LUE1036
450	12B	LEE104	LEE1046	LUE1043	LUE1046
600	12B	LEE106	LEE1066	LUE1063	LUE1066

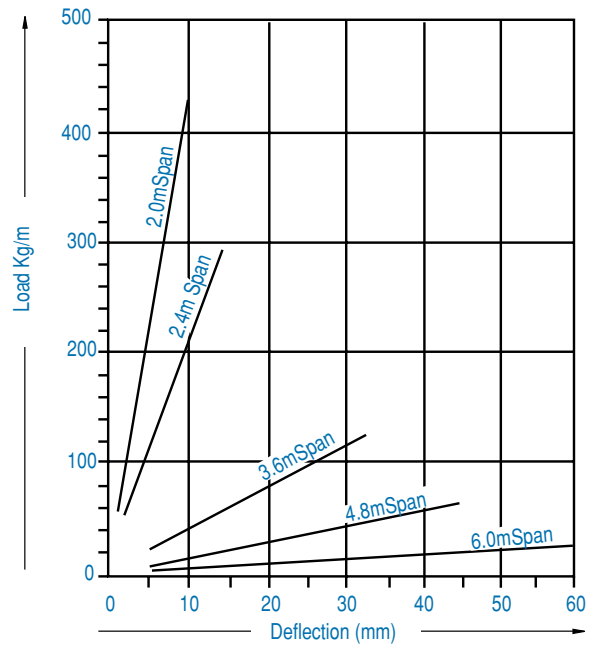
\* Splice plate & fixing screws are not included (order separately).

## ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA Standard VE1 and verified by testing. Safety Factor = 1.5 on collapse load for single span.

## DEFLECTION GRAPH



Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.



# UNISTRUT® NEMA 16A CABLE LADDER - STEEL

## TECHNICAL DATA

**Cable Laying Depth:** 72mm

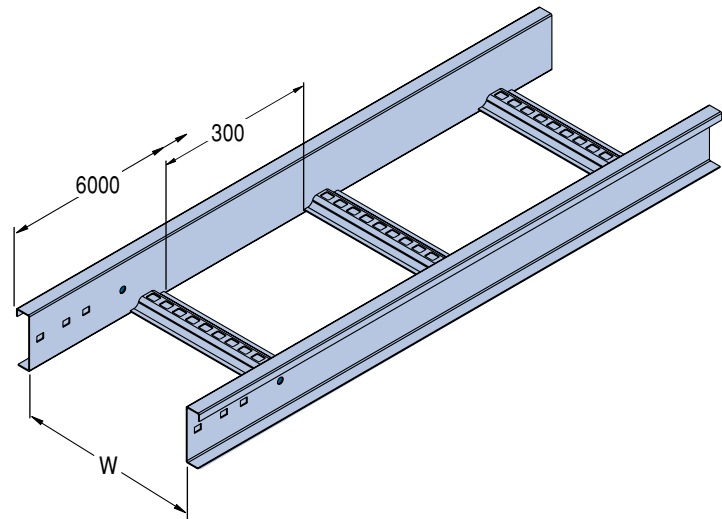
### Loading Data:

Basic Load Capacity  
64kg/lin.m on 6m span  
90kg/lin.m on 4.8m span  
230kg/lin.m on 3m span

**Length:** 6m

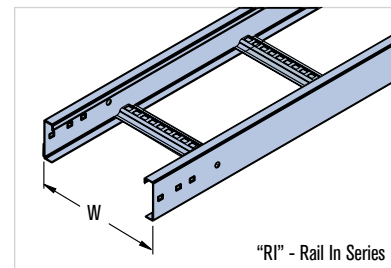
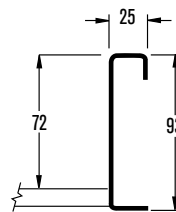
**Rung Spacing:** 300mm nominal

**Standard Finish:** Hot Dipped Galvanised  
Also available in Stainless Steel Grade 316



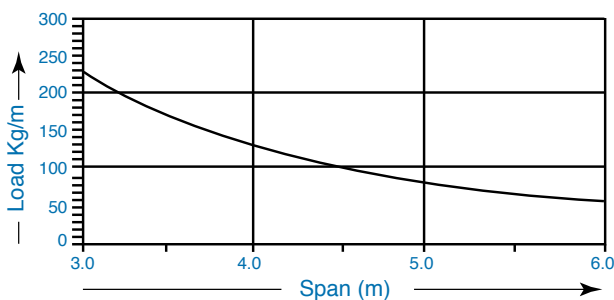
## PARTS LIST

Dim "W"	Type	Part No. HG	Part No. 316 SS
150	16A	LEG101	LUG101
300	16A	LEG103	LUG103
450	16A	LEG104	LUG104
600	16A	LEG106	LUG106
150	16A-RI	LEG101R	LUG101R
300	16A-RI	LEG103R	LUG103R
450	16A-RI	LEG104R	LUG104R
600	16A-RI	LEG106R	LUG106R



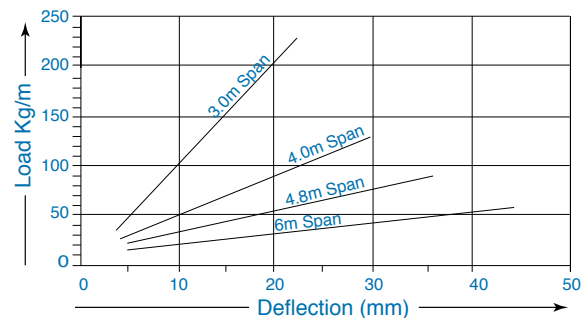
\* Splice plate & fixing screws are not included (order separately).

## ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA Standard VE1 and verified by testing. Safety Factor = 1.5 on collapse load for single span.

## DEFLECTION GRAPH



Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

# UNISTRUT® NEMA 20B CABLE LADDER - STEEL

## TECHNICAL DATA

**Cable Laying Depth:** 109mm

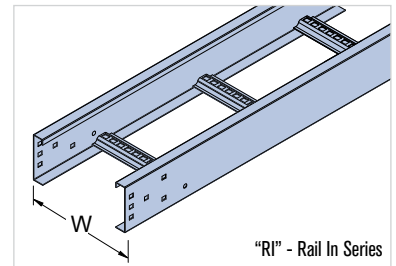
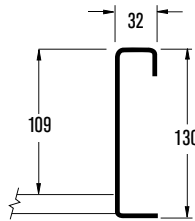
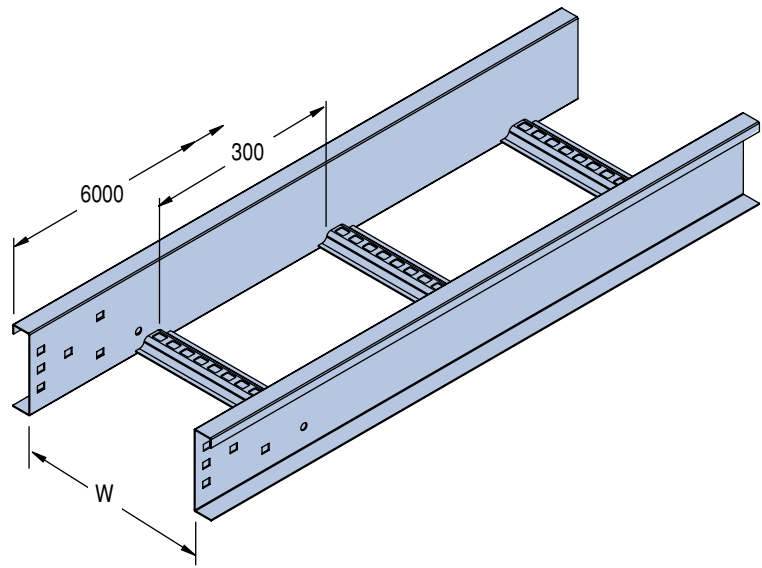
**Loading Data:**

Basic Load Capacity  
136kg/lin.m on 6m span  
544kg/lin.m on 3m span

**Length:** 6m

**Rung Spacing:** 300mm nominal

**Standard Finish:** Hot Dipped Galvanised  
*Also available in Stainless Steel Grade 316*

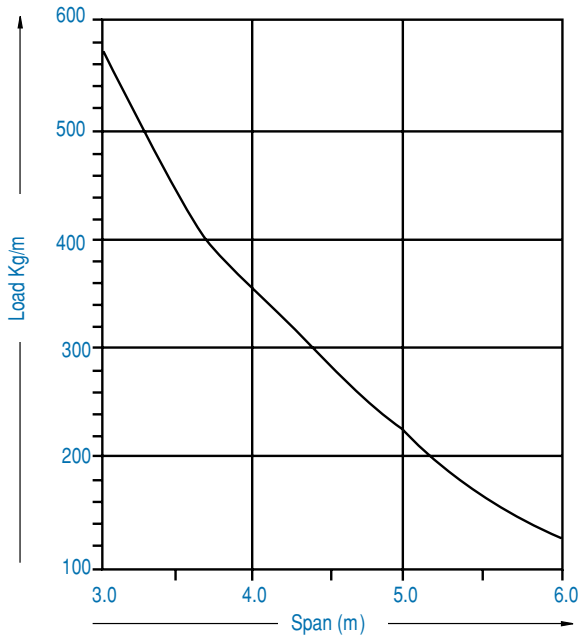


## PARTS LIST

Dim "W"	Type	Part No. HG	Part No. 316 SS
150	20B	LEK101	LUK101
300	20B	LEK103	LUK103
450	20B	LEK104	LUK104
600	20B	LEK106	LUK106
150	20B-RI	LEK101R	LUK101R
300	20B-RI	LEK103R	LUK103R
450	20B-RI	LEK104R	LUK104R
600	20B-RI	LEK106R	LUK106R

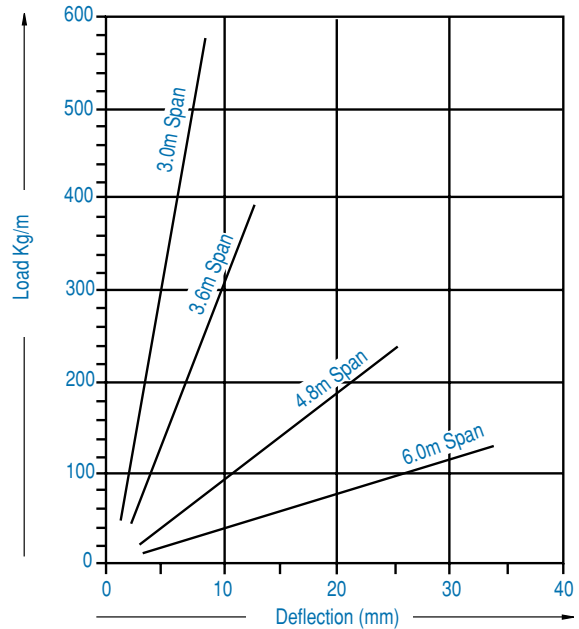
\* Splice plate & fixing screws are not included (order separately).

## ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA Standard VE1 and verified by testing. Safety Factor = 1.5 on collapse load for single span.

## DEFLECTION GRAPH



Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

# UNISTRUT® NEMA 20C CABLE LADDER - STEEL

## TECHNICAL DATA

**Cable Laying Depth:** 125mm

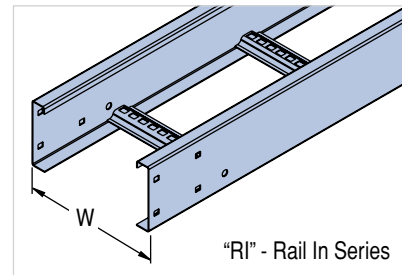
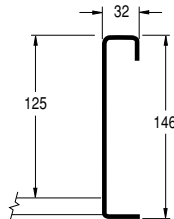
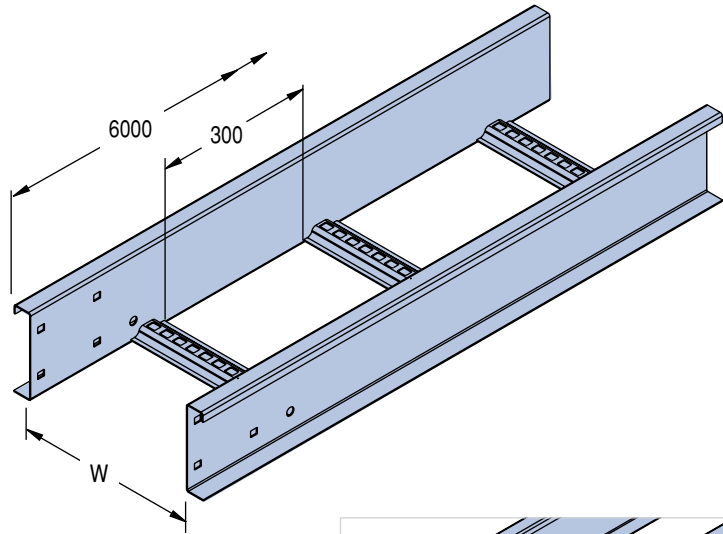
### Loading Data:

Basic Load Capacity  
168kg/lin.m on 6m span  
653kg/lin.m on 3m span

**Length:** 6m

**Rung Spacing:** 300mm nominal

**Standard Finish:** Hot Dipped Galvanised  
Also available in Stainless Steel Grade 316

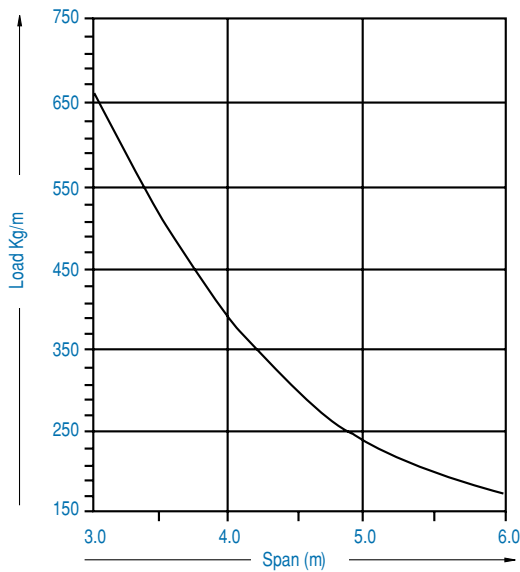


## PARTS LIST

Dim "W"	Type	Part No. HG	Part No. 316 SS
150	20C	LEL101	LUL101
300	20C	LEL103	LUL103
450	20C	LEL104	LUL104
600	20C	LEL106	LUL106
150	20C-RI	LEL101R	LUL101R
300	20C-RI	LEL103R	LUL103R
450	20C-RI	LEL104R	LUL104R
600	20C-RI	LEL106R	LUL106R

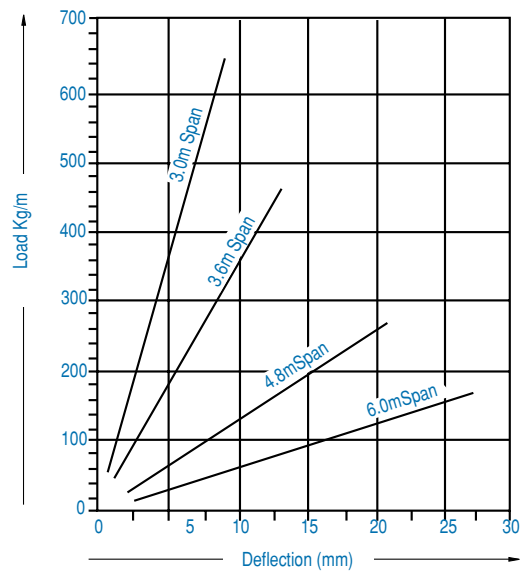
\* Splice plate & fixing screws are not included (order separately).

## DEFLECTION GRAPH



Allowable loads are determined generally in accordance with NEMA Standard VE1 and verified by testing. Safety Factor = 1.5 on collapse load for single span.

## DEFLECTION GRAPH

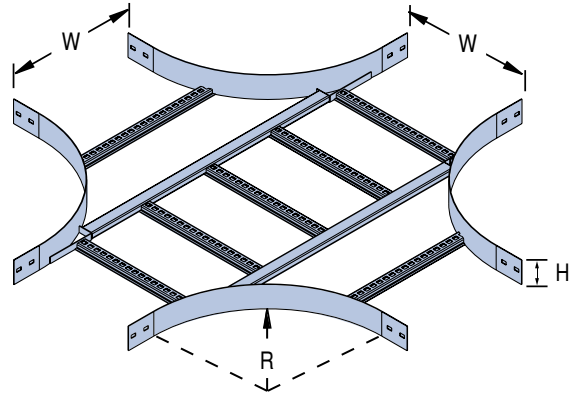


Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

# NEMA CABLE LADDER - CROSSES, BENDS, TEES - STEEL

## CROSS

Type	Radius "R"	Width "W"	Height "H"	Part No. HG	Part No. SS
12B	300	150	60	LEE181	LUE181
12B	300	300	60	LEE183	LUE183
12B	300	450	60	LEE184	LUE184
12B	300	600	60	LEE186	LUE186
16A	450	150	84	LEG181	LUG181
16A	450	300	84	LEG183	LUG183
16A	450	450	84	LEG184	LUG184
16A	450	600	84	LEG186	LUG186
20B	450	150	119	LEK181	LUK181
20B	450	300	119	LEK183	LUK183
20B	450	450	119	LEK184	LUK184
20B	450	600	119	LEK186	LUK186
20C	600	150	135	LEL181	LUL181
20C	600	300	135	LEL183	LUL183
20C	600	450	135	LEL184	LUL184
20C	600	600	135	LEL186	LUL186

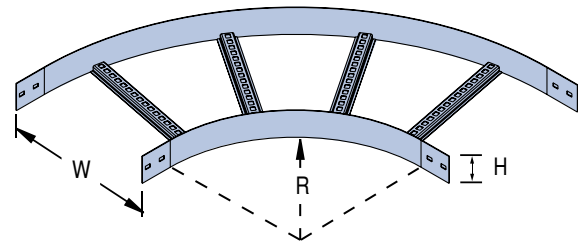


HG & SS

CROSS

## FLAT BEND 90°

Type	Radius "R"	Width "W"	Height "H"	Part No. HG	Part No. SS
12B	300	150	60	LEE111	LUE111
12B	300	300	60	LEE113	LUE113
12B	300	450	60	LEE114	LUE114
12B	300	600	60	LEE116	LUE116
16A	450	150	84	LEG111	LUG111
16A	450	300	84	LEG113	LUG113
16A	450	450	84	LEG114	LUG114
16A	450	600	84	LEG116	LUG116
20B	450	150	119	LEK111	LUK111
20B	450	300	119	LEK113	LUK113
20B	450	450	119	LEK114	LUK114
20B	450	600	119	LEK116	LUK116
20C	600	150	135	LEL111	LUL111
20C	600	300	135	LEL113	LUL113
20C	600	450	135	LEL114	LUL114
20C	600	600	135	LEL116	LUL116

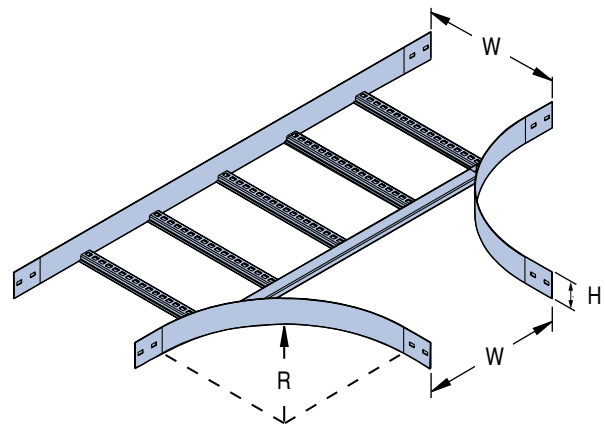


HG & SS

FLAT BEND 90°

## TEE

Type	Radius "R"	Width "W"	Height "H"	Part No. HG	Part No. SS
12B	300	150	60	LEE191	LUE191
12B	300	300	60	LEE193	LUE193
12B	300	450	60	LEE194	LUE194
12B	300	600	60	LEE196	LUE196
16A	450	150	84	LEG191	LUG191
16A	450	300	84	LEG193	LUG193
16A	450	450	84	LEG194	LUG194
16A	450	600	84	LEG196	LUG196
20B	450	150	119	LEK191	LUK191
20B	450	300	119	LEK193	LUK193
20B	450	450	119	LEK194	LUK194
20B	450	600	119	LEK196	LUK196
20C	600	150	135	LEL191	LUL191
20C	600	300	135	LEL193	LUL193
20C	600	450	135	LEL194	LUL194
20C	600	600	135	LEL196	LUL196



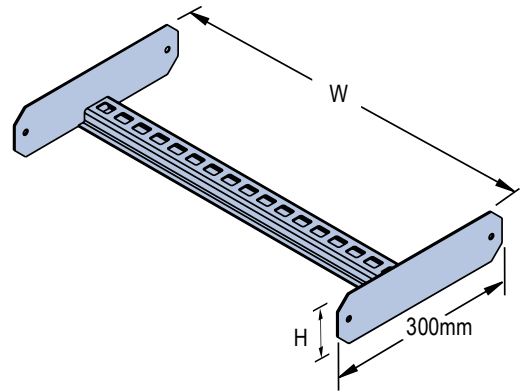
HG & SS

TEE

\* Fixing Hardware for all cable ladder systems must be ordered separately.

## ADJUSTABLE RISER

Type	Width "W"	Height "H"	Part No. HG	Part No. SS
12B	150	60	LEE141	LUE141
12B	300	60	LEE143	LUE143
12B	450	60	LEE144	LUE144
12B	600	60	LEE146	LUE146
16A	150	84	LEG141	LUG141
16A	300	84	LEG143	LUG143
16A	450	84	LEG144	LUG144
16A	600	84	LEG146	LUG146
20B	150	119	LEK141	LUK141
20B	300	119	LEK143	LUK143
20B	450	119	LEK144	LUK144
20B	600	119	LEK146	LUK146
20C	150	135	LEL141	LUL141
20C	300	135	LEL143	LUL143
20C	450	135	LEL144	LUL144
20C	600	135	LEL146	LUL146

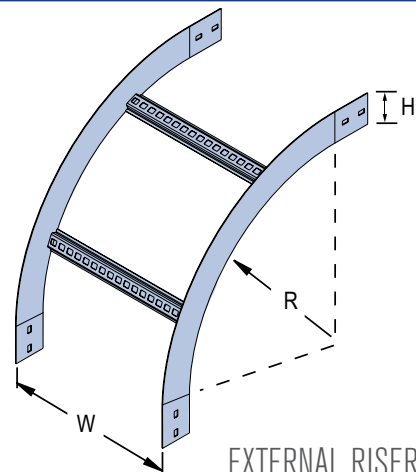


HG & SS

ADJUSTABLE RISER

## EXTERNAL RISER 90°

Type	Radius "R"	Width "W"	Height "H"	Part No. HG	Part No. SS
12B	300	150	60	LEE131	LUE131
12B	300	300	60	LEE133	LUE133
12B	300	450	60	LEE134	LUE134
12B	300	600	60	LEE136	LUE136
16A	450	150	84	LEG131	LUG131
16A	450	300	84	LEG133	LUG133
16A	450	450	84	LEG134	LUG134
16A	450	600	84	LEG136	LUG136
20B	450	150	119	LEK131	LUK131
20B	450	300	119	LEK133	LUK133
20B	450	450	119	LEK134	LUK134
20B	450	600	119	LEK136	LUK136
20C	600	150	135	LEL131	LUL131
20C	600	300	135	LEL133	LUL133
20C	600	450	135	LEL134	LUL134
20C	600	600	135	LEL136	LUL136

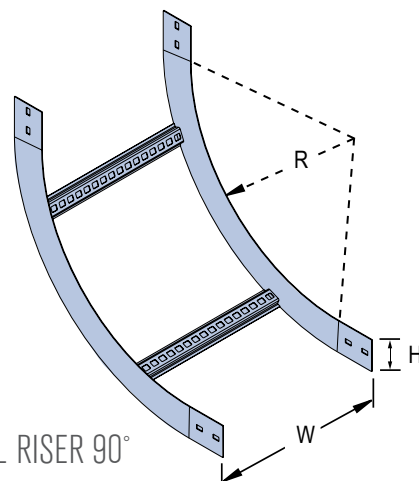


HG & SS

EXTERNAL RISER 90°

## INTERNAL RISER 90°

Type	Radius "R"	Width "W"	Height "H"	Part No. HG	Part No. SS
12B	300	150	60	LEE121	LUE121
12B	300	300	60	LEE123	LUE123
12B	300	450	60	LEE124	LUE124
12B	300	600	60	LEE126	LUE126
16A	450	150	84	LEG121	LUG121
16A	450	300	84	LEG123	LUG123
16A	450	450	84	LEG124	LUG124
16A	450	600	84	LEG126	LUG126
20B	450	150	119	LEK121	LUK121
20B	450	300	119	LEK123	LUK123
20B	450	450	119	LEK124	LUK124
20B	450	600	119	LEK126	LUK126
20C	600	150	135	LEL121	LUL121
20C	600	300	135	LEL123	LUL123
20C	600	450	135	LEL124	LUL124
20C	600	600	135	LEL126	LUL126



HG & SS

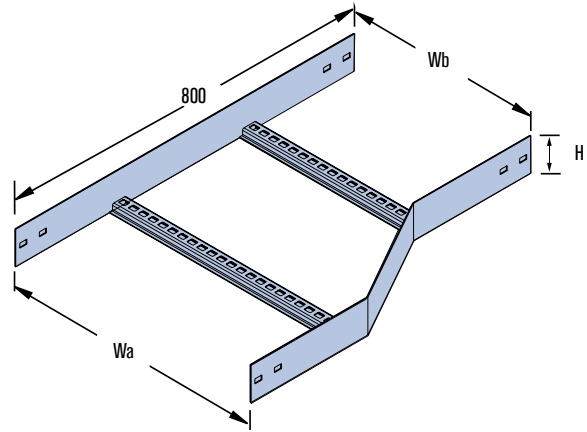
INTERNAL RISER 90°

\* Fixing Hardware for all cable ladder systems must be ordered separately.

# NEMA CABLE LADDER - REDUCERS - STEEL

## OFFSET REDUCER LH

Type	Width "Wa"	Width "Wb"	Height "H"	Part No. HG	Part No. SS
12B	600	450	60	LEE1764	LUE1764
12B	600	300	60	LEE1763	LUE1763
12B	600	150	60	LEE1761	LUE1761
12B	450	300	60	LEE1743	LUE1743
12B	450	150	60	LEE1741	LUE1741
12B	300	150	60	LEE1731	LUE1731
16A	600	450	84	LEG1764	LUG1764
16A	600	300	84	LEG1763	LUG1763
16A	600	150	84	LEG1761	LUG1761
16A	450	300	84	LEG1743	LUG1743
16A	450	150	84	LEG1741	LUG1741
16A	300	150	84	LEG1731	LUG1731
20B	600	450	119	LEK1764	LUK1764
20B	600	300	119	LEK1763	LUK1763
20B	600	150	119	LEK1761	LUK1761
20B	450	300	119	LEK1743	LUK1743
20B	450	150	119	LEK1741	LUK1741
20B	300	150	119	LEK1731	LUK1731
20C	600	450	135	LEL1764	LUL1764
20C	600	300	135	LEL1763	LUL1763
20C	600	150	135	LEL1761	LUL1761
20C	450	300	135	LEL1743	LUL1743
20C	450	150	135	LEL1741	LUL1741
20C	300	150	135	LEL1731	LUL1731

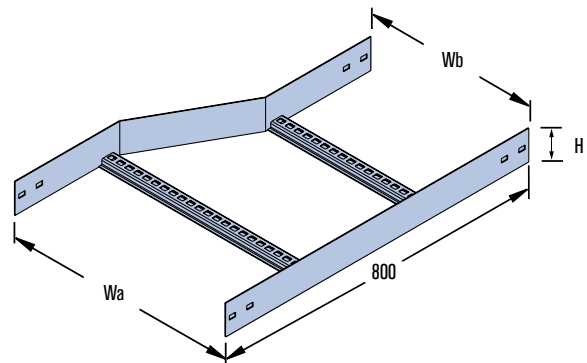


HG & SS

OFFSET REDUCER LH

## OFFSET REDUCER RH

Type	Width "Wa"	Width "Wb"	Height "H"	Part No. HG	Part No. SS
12B	600	450	60	LEE1664	LUE1664
12B	600	300	60	LEE1663	LUE1663
12B	600	150	60	LEE1661	LUE1661
12B	450	300	60	LEE1643	LUE1643
12B	450	150	60	LEE1641	LUE1641
12B	300	150	60	LEE1631	LUE1631
16A	600	450	84	LEG1664	LUG1664
16A	600	300	84	LEG1663	LUG1663
16A	600	150	84	LEG1661	LUG1661
16A	450	300	84	LEG1643	LUG1643
16A	450	150	84	LEG1641	LUG1641
16A	300	150	84	LEG1631	LUG1631
20B	600	450	119	LEK1664	LUK1664
20B	600	300	119	LEK1663	LUK1663
20B	600	150	119	LEK1661	LUK1661
20B	450	300	119	LEK1643	LUK1643
20B	450	150	119	LEK1641	LUK1641
20B	300	150	119	LEK1631	LUK1631
20C	600	450	135	LEL1664	LUL1664
20C	600	300	135	LEL1663	LUL1663
20C	600	150	135	LEL1661	LUL1661
20C	450	300	135	LEL1643	LUL1643
20C	450	150	135	LEL1641	LUL1641
20C	300	150	135	LEL1631	LUL1631



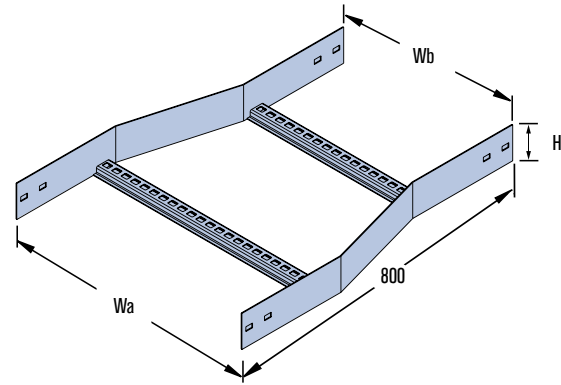
HG & SS

OFFSET REDUCER RH

\* Fixing Hardware for all cable ladder systems must be ordered separately.

## STRAIGHT REDUCER

Type	Width "Wa"	Width "Wb"	Height "H"	Part No. HG	Part No. SS
12B	600	450	60	LEE1564	LUE1564
12B	600	300	60	LEE1563	LUE1563
12B	600	150	60	LEE1561	LUE1561
12B	450	300	60	LEE1543	LUE1543
12B	450	150	60	LEE1541	LUE1541
12B	300	150	60	LEE1531	LUE1531
16A	600	450	84	LEG1564	LUG1564
16A	600	300	84	LEG1563	LUG1563
16A	600	150	84	LEG1561	LUG1561
16A	450	300	84	LEG1543	LUG1543
16A	450	150	84	LEG1541	LUG1541
16A	300	150	84	LEG1531	LUG1531
20B	600	450	119	LEK1564	LUK1564
20B	600	300	119	LEK1563	LUK1563
20B	600	150	119	LEK1561	LUK1561
20B	450	300	119	LEK1543	LUK1543
20B	450	150	119	LEK1541	LUK1541
20B	300	150	119	LEK1531	LUK1531
20C	600	450	135	LEL1564	LUL1564
20C	600	300	135	LEL1563	LUL1563
20C	600	150	135	LEL1561	LUL1561
20C	450	300	135	LEL1543	LUL1543
20C	450	150	135	LEL1541	LUL1541
20C	300	150	135	LEL1531	LUL1531

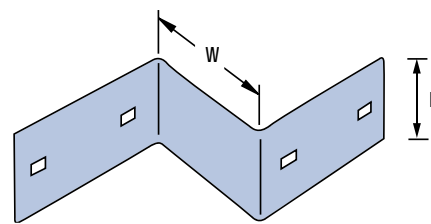


HG & SS

STRAIGHT REDUCER

## REDUCER SPLICE

Type	Width "W"	Height "H"	Part No. HG	Part No. SS
12B	75	60	LEE380	LUE380
12B	150	60	LEE381	LUE381
12B	300	60	LEE383	LUE383
12B	450	60	LEE384	LUE384
16A	75	84	LEG380	LUG380
16A	150	84	LEG381	LUG381
16A	300	84	LEG383	LUG383
16A	450	84	LEG384	LUG384
20B	75	119	LEK380	LUK380
20B	150	119	LEK381	LUK381
20B	300	119	LEK383	LUK383
20B	450	119	LEK384	LUK384
20C	75	135	LEL380	LUL380
20C	150	135	LEL381	LUL381
20C	300	135	LEL383	LUL383
20C	450	135	LEL384	LUL384



HG & SS

REDUCER SPLICE

Reduction of ladder width is normally carried out using straight or offset reducers. Reducer Splice Plates are a flexible, cost effective alternative, which bolt directly to the ladder side-rails. Available for all steel cable ladder systems.

\* Fixing Hardware for all cable ladder systems must be ordered separately.

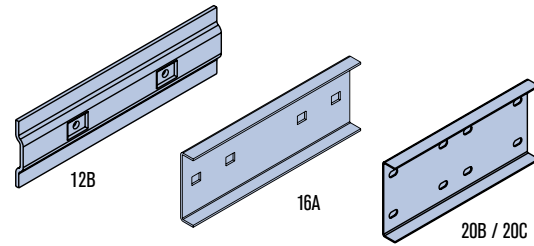


# NEMA STEEL CABLE LADDER - ACCESSORIES

## SPLICE PLATES

Type	Part No. HG	Part No. SS
12B	LEE30	LUE30
16A	LEG30	LUG30
20B	LEK30	LUK30
20C	LEL30	LUL30

The neat fitting flanges and bolted configuration of Unistrut® splice plates also reduces deflection at joints as the ladder is loaded. Unsightly dips or discontinuities along the ladder run are therefore avoided. Bolt holes in splice plates and ladder side-rails are elongated so that site misalignments as well as thermal expansion and contraction are catered for.



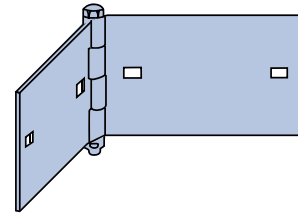
HG & SS

SPLICE PLATES

## HINGED HORIZONTAL SPLICE

Type	Part No. HG	Part No. SS
12B	LEE35	LUE35
16A	LEG35	LUG35
20B	LEK35	LUK35
20C	LEL35	LUL35

A fast and economical method of changing ladder direction where exact site dimensions must be met. Especially suitable where the angle is less than 45°, or larger angles where the cable bending radius is not important. Also provides a flexible alternative to standard accessory sizes and radii. Suits all Unistrut® steel cable ladder systems.



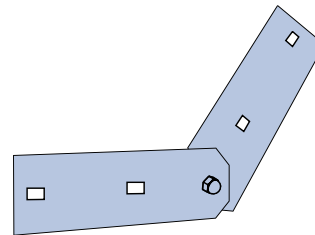
HG & SS

HINGED HORIZONTAL SPLICE

## HINGED VERTICAL SPLICE

Type	Part No. HG	Part No. SS
12B	LEE36	LUE36
16A	LEG36	LUG36
20B	LEK36	LUK36
20C	LEL36	LUL36

Ideal for making changes in vertical level or direction. Easily adapts to exact site dimensions which may otherwise be difficult to achieve with fixed risers. Cables form their own bending radius spanning between adjacent end-rungs. Also used to form adjustable risers providing flexibility to adjust to any site restrictions.



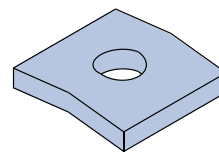
HG & SS

HINGED VERTICAL SPLICE

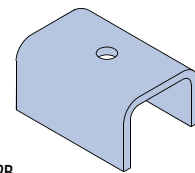
## HOLD DOWN BRACKET

Type	Part No. HG	Part No. SS
12B	LEE50	LUE50
16A	LEG50	LUG50
20B	LEG50	LUG50
20C	LEG50	LUG50

Hold Down Brackets provide rigid clamping for all steel cable ladder systems. The Brackets can be positioned at any point along the ladder length.



16A/20B/20C



12B

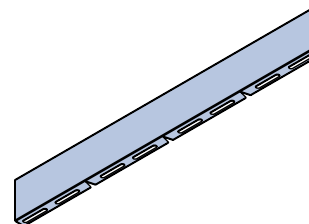
HG & SS

HOLD DOWN BRACKET

## DIVIDER STRIP

Type	Part No. HG	Part No. SS
12B	LEE55	LUE55
16A	LEM55	LUM55
20B	LEM55	LUM55
20C	LEM55	LUM55

Divider strip is used to separate cables of different voltages or circuits. The notched base permits forming to the required shape.



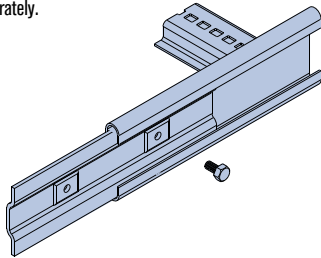
HG & SS

DIVIDER STRIP

\* Fixing Hardware for all cable ladder systems must be ordered separately.

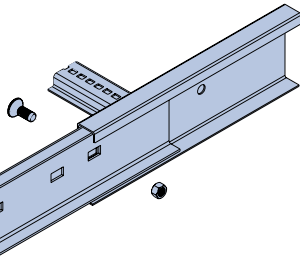
## 12B SPLICE PLATE

Screws to be ordered separately.



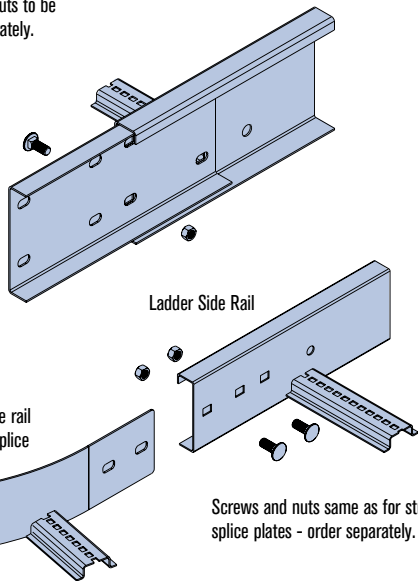
## 16A SPLICE PLATE

Screws and nuts to be ordered separately.



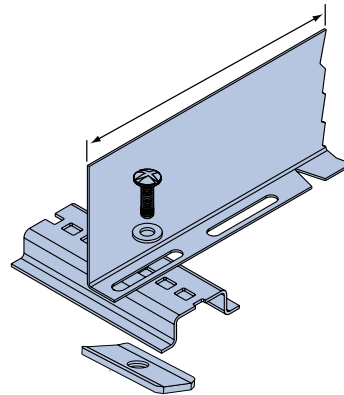
## 20B / 20C SPLICE PLATE

Screws and nuts to be ordered separately.



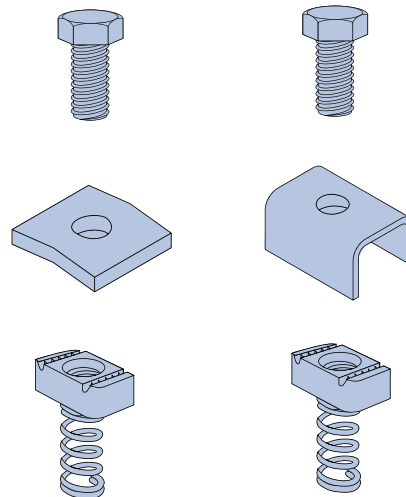
Screws and nuts same as for straight splice plates - order separately.

## DIVIDER STRIP



Used to separate cables of different voltages or circuits. The notched base permits forming to the required shape. Fix at 1m centres.

## HOLD DOWN BRACKETS



16A, 20B & 20C

12B

Can be positioned at any point along ladder length. Brackets provide rigid clamping for all steel systems

## NEMA STEEL CABLE LADDER - FASTENERS

Splice Plates—Straight, Hinged Horizontal & Hinged Vertical	Description	Part No. HG	Part No. SS	Quantity Required
12B	SCL 12B Splice Screw	LEE42	LUE42	2 Per Splice Plate
16A, 16A-RI	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	4 Per Splice Plate 4 Per Splice Plate
20B, 20B-RI, 20C, 20C-RI	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	8 Per Splice Plate 8 Per Splice Plate

Self Splicing Accessories	Description	Part No. HG	Part No. SS	Quantity Required
12B Bend, Riser or Reducer	SCL 12B Splice Screw	LEE42	LUE42	4 per Bend, Riser or Reducer
12B Tee	SCL 12B Splice Screw	LEE42	LUE42	6 per Tee
12B Cross	SCL 12B Splice Screw	LEE42	LUE42	8 per Cross
16A, 16A-RI, 20B, 20B-RI Bend, Riser or Reducer	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	8 per Bend, Riser or Reducer 8 per Bend, Riser or Reducer
16A, 16A-RI, 20B, 20B-RI Tee	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	12 per Tee 12 per Tee
16A, 16A-RI, 20B, 20B-RI Tee	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	16 per Cross 16 per Cross
20C, 20C-RI Bend, Riser or Reducer	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	16 per Bend, Riser or Reducer 16 per Bend, Riser or Reducer
20C, 20C-RI Tee	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	24 per Tee 24 per Tee
20C, 20C-RI Cross	SCL 16A/20B/20C Splice Bolt SCL 16A/20B/20C Splice Nut	LEG40 LEG41	LUG40 LUG41	32 per Cross 32 per Cross

Divider Strip	Description	Part No. HG	Part No. SS	Quantity Required
12B, 16A, 20B, 20C	Divider Strip Screw	PHS0620MG	PHS0620SS	3 per Length
12B, 16A, 20B, 20C	Divider Strip Washer	FW06H	FW06SS	3 per Length
12B, 16A, 20B, 20C	Divider Strip Nut	P3016MG	P3016SS	3 per Length

Hold Down Bracket	Description	Part No. HG	Part No. SS	Quantity Required
12B	Hold Down Screw	LEE52	LUE52	1 per Bracket
12B	Hold Down Nut	P1007H	P1007SS	1 per Bracket
16A, 20B, 20C	Hold Down Screw	HHS1230H	HHS1230SS	1 per Bracket
16A, 20B, 20C	Hold Down Nut	P1010H	P1013SS	1 per Bracket

Fixing hardware for all Cable Ladder Systems must be ordered separately.

## LADDER AND TRAY COVERS

Covers are normally specified where protection is required:

1. To safeguard against damage to cable and insulation from falling objects—dropped tools, discarded cigarettes, sparks or solid materials.
2. Covers protect cable insulation and fixings (plastic ties etc.) from harmful effects of ultra-violet light or weathering deterioration.
3. In areas where high levels of airborne particles are present, covers prevent accumulation of dust or other debris on cables, which may cause heat build up, fire hazards or absorb moisture, which may shorten life of installation.

## AVAILABILITY

Standard covers are available for all Unistrut® cable ladder systems and UNI-TRAY® systems. Standard length is 3 meters. Flat, peaked or ventilated covers are available by special order.

## MATERIAL

Hot-dip galvanised steel sheet to AS1397.

## STEEL STANDARD COVERS

Type	Nominal Width	Width	Part Number
UT3/UT5 & 12B	150	176	LEEG013H
UT3/UT5 & 12B	300	326	LEEG033H
UT3/UT5 & 12B	450	476	LEEG043H
UT3/UT5 & 12B	600	626	LEEG063H
16A	150	201	LEGG013H
16A	300	351	LEGG033H
16A	450	501	LEGG043H
16A	600	651	LEGG063H
20B/20C	150	215	LEKG013H
20B/20C	300	365	LEKG033H
20B/20C	450	515	LEKG043H
20B/20C	600	665	LEKG063H
12B/16A/20B & 20C RAIL IN	150	154	LEMG013H
12B/16A/20B & 20C RAIL IN	300	304	LEMG033H
12B/16A/20B & 20C RAIL IN	450	454	LEMG043H
12B/16A/20B & 20C RAIL IN	600	604	LEMG063H

## SPECIAL ORDER STYLES

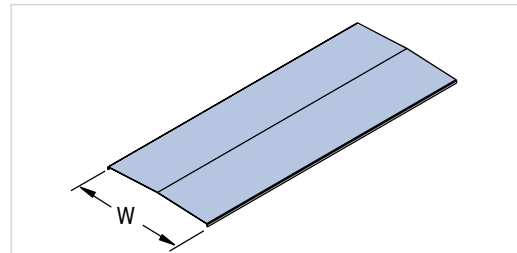
Style	Part Number
Flat—F	eg. LE...3HF
Vented—V	eg. LE...3HV
15° Peaked—P1	eg. LE...3P1H
30° Peaked—P3	eg. LE...3P3H
15° Peaked & Vented—P1V	eg. LE...3P1VH
30° Peaked & Vented—P3V	eg. LE...3P3VH

## OTHER FINISHES

Also available in 316 Stainless Steel as a special order.

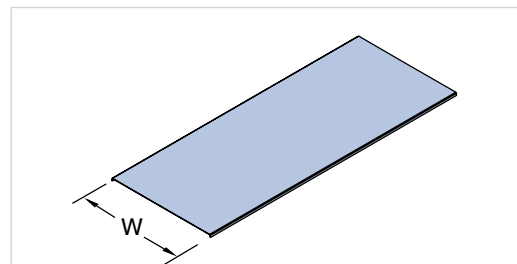
Part Number example **LU...3**

*Stainless steel part numbers are similar to the Hot dipped galvanised part numbers, but replacing the second letter of each part number with "U" and removing the H.*



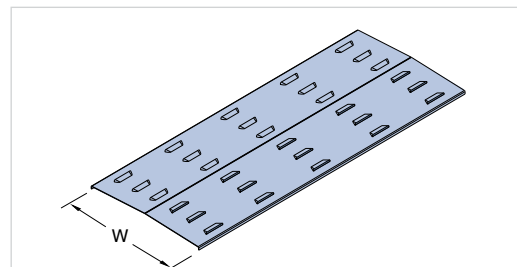
### STANDARD COVERS

The most common type used. The 3-5° crease allows for maximum protection to cables. The standard cover has a 3-5° crease for added rigidity and moisture run-off.



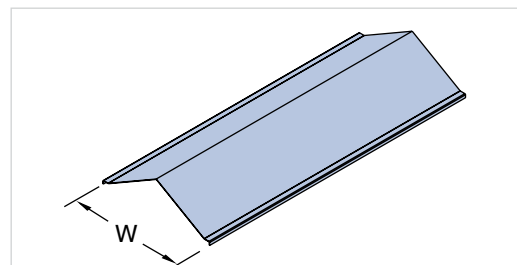
### FLAT COVERS

Most commonly used where there is space restrictions and the use of standard and peaked covers is not practical.



### VENTILATED COVERS

Should be used wherever reasonable protection for cables is required and where there is also a primary requirement to allow the escape of heat generated by cable.



### PEAKED COVERS

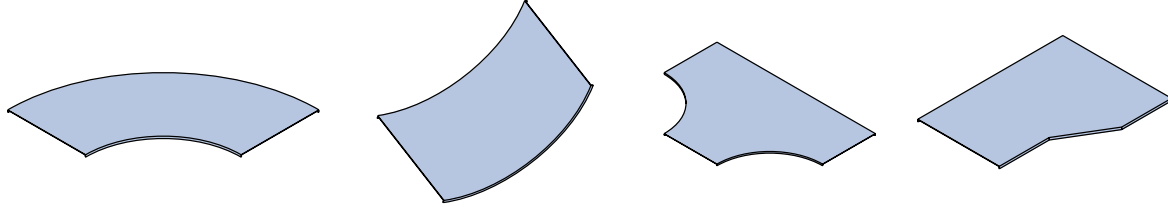
Used in very dusty situations where the self cleaning effect of sloping sides prevents excessive dust accumulations. The large air-space above the cables also assists with the dissipation of heat.

# UNISTRUT®

## CABLE LADDER AND CABLE TRAY COVERS - STEEL

### ACCESSORY COVERS—HOT DIPPED GALVANISED

Flat covers are available to match shaped accessories for all Unistrut® steel Cable Ladder Systems.



### STEEL SHAPE COVERS FLAT - HOT DIPPED GALVANISED

Type	Shape	Part Number
12B/16A/20B & 20C	BEND	LEM61*#H
12B/16A/20B & 20C	INTERNAL RISER	LEM62*#H
12B	EXTERNAL RISER	LEE63*R#H
16A	EXTERNAL RISER	LEG63*R#H
20B	EXTERNAL RISER	LEK63*R#H
20C	EXTERNAL RISER	LEL63*R#H
12B/16A/20B & 20C	CROSS	LEM68*#H
12B/16A/20B & 20C	TEE	LEM69*#H
12B/16A/20B & 20C	STRAIGHT REDUCER	LEM65**H
12B/16A/20B & 20C	RIGHT HAND REDUCER	LEM66**H
12B/16A/20B & 20C	LEFT HAND REDUCER	LEM67**H

* Shape Width	# Shape Radius
150mm = "1"	300mm = "3"
300mm = "3"	450mm = "4"
450mm = "4"	600mm = "6"
600mm = "6"	900mm = "9"

Reducer Covers— part numbers for reducer covers are made up of two widths. The first width being the widest and the second being the smallest. EG. A Right Hand Reducer to reduce from 450mm to 150mm will have the part number LEM6641H.

### OTHER FINISHES

Also available in 316 Stainless Steel as a special order.

Part Number example **LU...3**

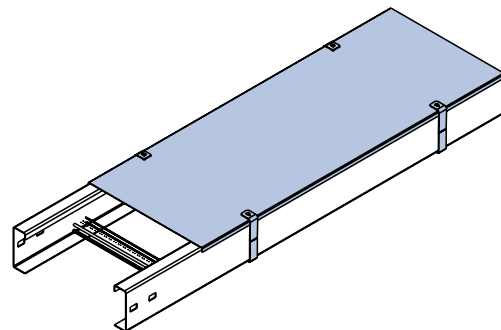
Stainless steel part numbers are similar to the Hot dipped galvanised part numbers, but replacing the second letter of each part number with "U" and removing the H.

### SPECIAL ORDER STYLES

Style	Part Number
Flat—F	eg. LE...3HF
Vented—V	eg. LE...3HV
15° Peaked—P1	eg. LE...3P1H
30° Peaked—P3	eg. LE...3P3H
15° Peaked & Vented—P1V	eg. LE...3P1VH
30° Peaked & Vented—P3V	eg. LE...3P3VH

### CABLE LADDER COVER FIXINGS

Covers are retained in position by means of cover clips as illustrated. Manufactured from high strength stainless steel, these unique clips, which have no thread components to freeze up are quickly installed and are also easily removed or replaced at a later date. One size of clip for each ladder system suits both ladder and accessory covers.



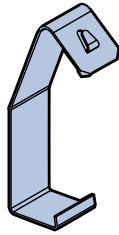
### RECOMMENDED SPACING FOR COVER CLIPS

Service conditions	Design Wind velocity, Vz (AS1170)	Ladder Width, mm			
		600	450	300	150
Up to and including exposed external locations	50m/s	1.2m	1.2m	1.2m	1.2m
Cyclonic Areas	65m/s	0.6m	0.8m	1.2m	1.2m

# CABLE LADDER AND CABLE TRAY COVERS - STEEL

## SS CLIPS

Type	Part No.
12B	LEE90
16A	LEG90
20B	LEK90
20C	LEL90



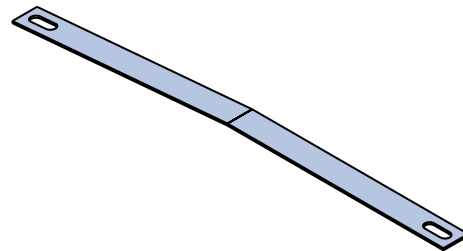
## HDG CLAMPS

Type	Part No.
12B	LEE91
16A	LEG91
20B	LEK91
20C	LEL91



## COVER STRAPS [HG]

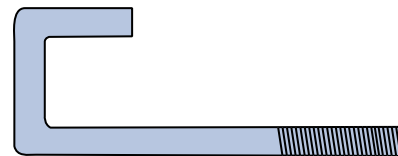
Type	Description	Part No.	HG
16A	150	LEG931	
16A	300	LEG933	
16A	450	LEG934	
16A	600	LEG936	
20B/20C	150	LEK931	
20B/20C	300	LEK933	
20B/20C	450	LEK934	
20B/20C	600	LEK936	



Note: Also available to suit peaked cover.

## HOOK BOLT & WING NUT [MG]

Type	Description	Part No.	HG
16A	16A Hook Bolt	LEK8873	
20B	20B Hook Bolt	LEK8873	
20C	20C Hook Bolt	LEL8873	
16A/20B/20C	Wing Nut M10	WN10MG	



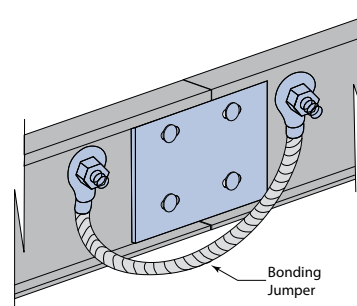
Note: two pair of hook bolt and wing nuts are used to attach the cover straps. Hook bolt and wing nuts are sold separately.

## EARTH KIT

**Part Number:** LEMES35K

35mm<sup>2</sup> 440L with M10 Lug.

Supplied with M10 fasteners for installation



# UNISTRUT®

## NEMA CABLE LADDER - ALUMINIUM

### ALUMINIUM CABLE LADDER (ACL)

Wherever severe corrosion conditions are present, or a long maintenance free life is required, Unistrut® aluminium cable ladder systems are the obvious choice.

Unistrut® manufactures a complete range of Aluminium cable ladder systems that conform to NEMA VE1. These systems provide a wide range of load and span combinations to suit the requirements of almost any installation.

Most frequently, aluminium cable ladders are selected because of their excellent performance in marine environments where salt spray or salt laden atmosphere is present. Applications such as wharves, coal loader conveyors or similar port facilities as well as coal mines, smelters, chemical processing plants and refineries are all typical users of aluminium cable ladders.

### SPLICE PLATES

The unique Unistrut® aluminium system splice plate is close fitting so that it is retained neatly and firmly on the cable ladder side rail. The splice design also permits up to 10mm of expansion and contraction movement at each joint – an important consideration with aluminium cable ladders – eliminates the need to place special expansion splices at predetermined intervals. The installation procedure for the splice connection is fast and simple.

#### Notes

*To attain maximum working load of the system, the following recommendations should be adopted:*

- Do not splice single spans of ladder.
- Avoid splice joints in the vicinity of the end supports on continuous runs.
- Avoid splice joints directly over intermediate supports on continuous runs.
- Locate splice joints at the quarter span point between supports on continuous runs.

*If in doubt, please consult your Unistrut® Service Centre.*

### ACCESSORIES

All aluminium cable ladder systems are complemented by a full range of standardised fabricated accessories and fittings which are readily available.

### BUILT-IN SPLICE

The principal feature of all Unistrut® cable ladder accessories is the 'built-in' plate. An extension of the accessory side-rail permits direct connection to the straight ladder, eliminating the need for a separate splice component.

The advantages of this method are:

- Minimised fixing hardware and components.
- When joining to a cut ladder, the accessory end acts as a convenient drill template for bolt holes.
- Simplified pre-planning, quantity take-offs and ordering.
- No left-over components.
- Strong and rigid joint.
- Faster installation.

Accessories are attached with the same fasteners as used for straight splice plates.

Elongated slots allow easier fit-up and permit adjustments in alignment to be absorbed.

### HOLD-DOWN BRACKETS

The general purpose hold-down bracket can be positioned at any point along ladder length, even in the situation where a rung and support member coincide. The bracket provides a large bearing area for the side-rail and permits free expansion movement to occur.

For side mounted ladders, or where rigid fixing of ladder is required, the rigid clamping bracket can be used.

### CONSTRUCTION

Unistrut® aluminium cable ladder systems are manufactured from high strength alloy 6063-T6 for all extruded components to AS / NZS1866 and 5005 for sheet or plate components to AS / NZS1734. These alloys are suitable for marine applications and offer excellent all round corrosion resistance. All fasteners are made from 300 series grade of stainless steel for optimum corrosion resistance.

The rungs are fillet welded to the side rails, which further improves the overall stability as well as strength of finished product.



# NEMA 12 CABLE LADDER - ALUMINIUM

**TECHNICAL DATA**

**Cable Depth:** 70mm

**Loading Data:**

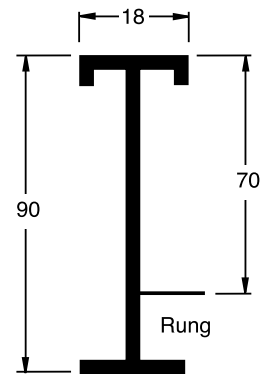
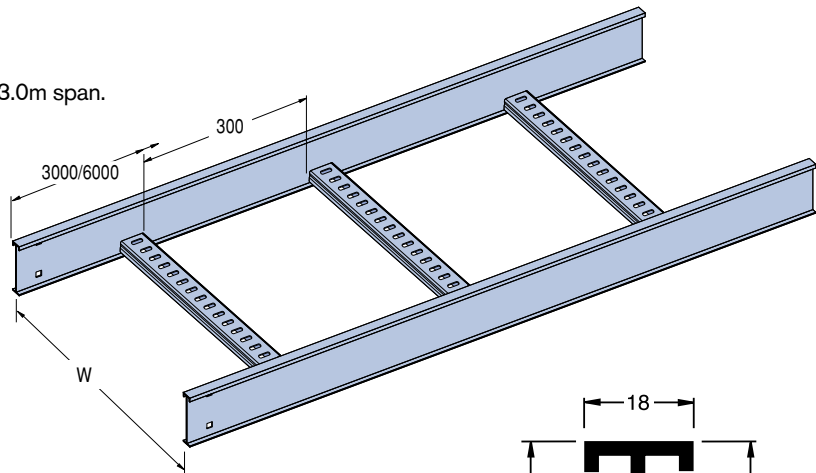
Basic Load Capacity = 140kgs/lin.m on 3.0m span.

**Length:** 6m

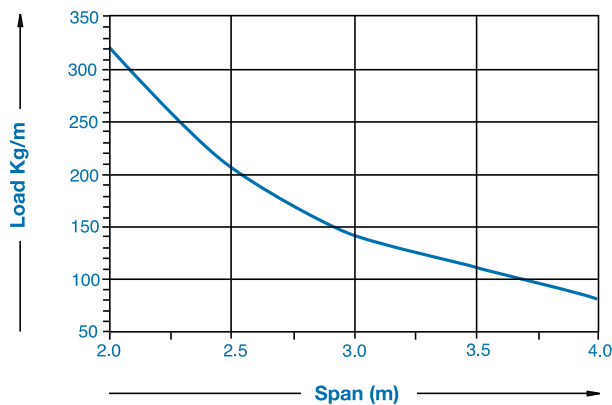
**Rung Spacing:** 300mm nominal

**PARTS LIST**

Dim "W"	Type	Part No.
150	12	AL12 150
300	12	AL12 300
450	12	AL12 450
600	12	AL12 600

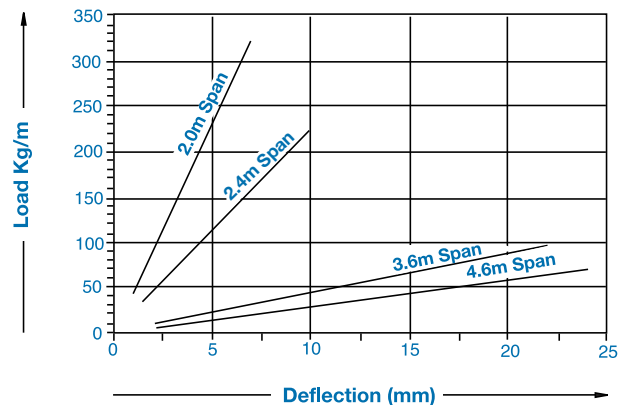


**ALLOWABLE LOAD GRAPH**



Allowable loads are determined generally in accordance with NEMA standard VE 1 and verified by testing. Safety factor = 1.5 on collapse load for single span.

**DEFLECTION GRAPH**



Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

**UNISTRUT®**

**NEMA 16 CABLE LADDER - ALUMINIUM**

**TECHNICAL DATA**

**Cable Depth:** 80mm

**Loading Data:**

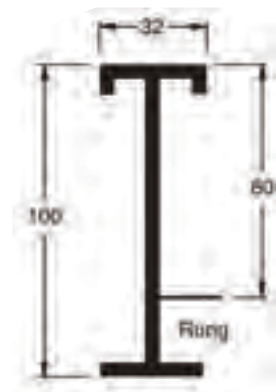
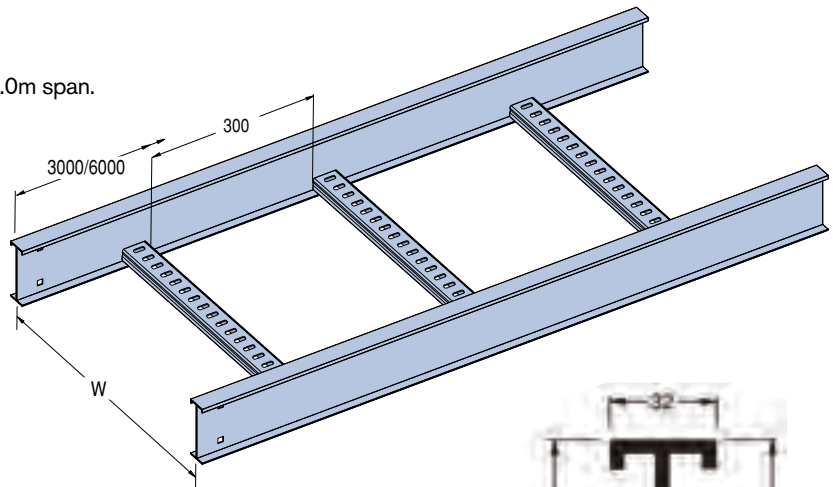
Basic Load Capacity = 225 kgs/lin.m on 3.0m span.

**Length:** 6m

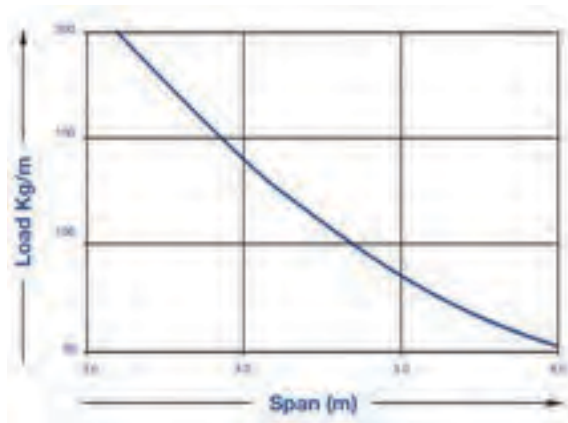
**Rung Spacing:** 300mm nominal

**PARTS LIST**

Dim "W"	Type	Part No.
150	16	AL16 150
300	16	AL16 300
450	16	AL16 450
600	16	AL16 600

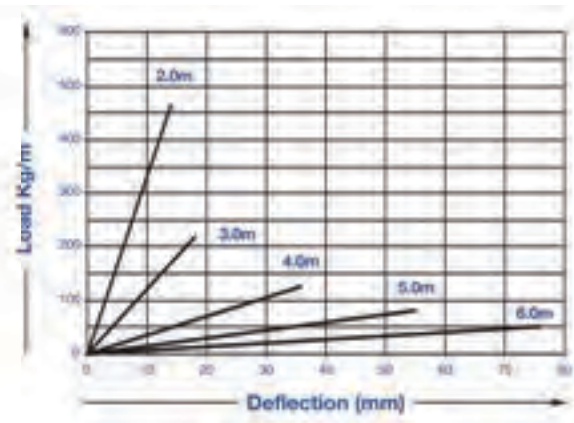


**ALLOWABLE LOAD GRAPH**



Allowable loads are determined generally in accordance with NEMA standard VE 1 and verified by testing. Safety factor = 1.5 on collapse load for single span.

**DEFLECTION GRAPH**



Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

# NEMA 20 CABLE LADDER - ALUMINIUM

**TECHNICAL DATA**

**Cable Depth:** 100mm

**Loading Data:**

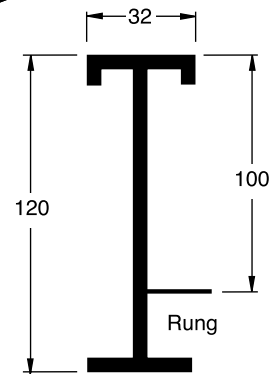
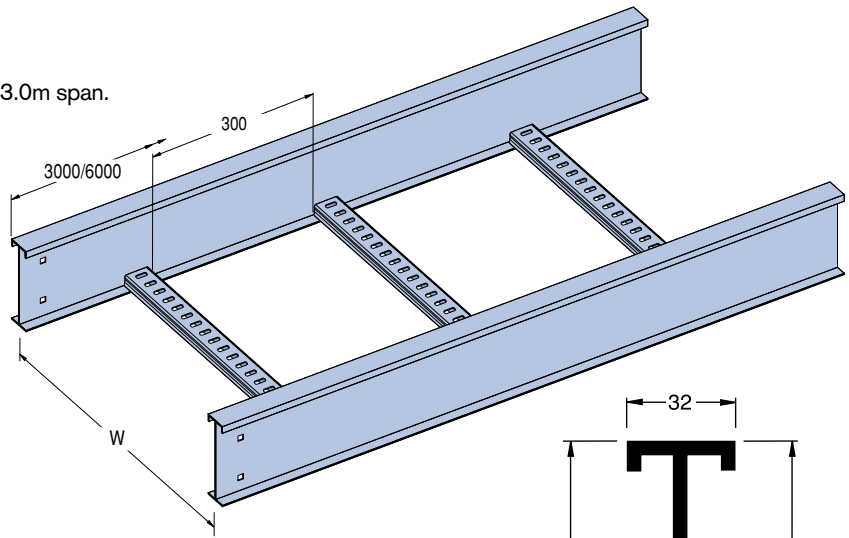
Basic Load Capacity = 370 kgs/lin.m on 3.0m span.

**Length:** 6m

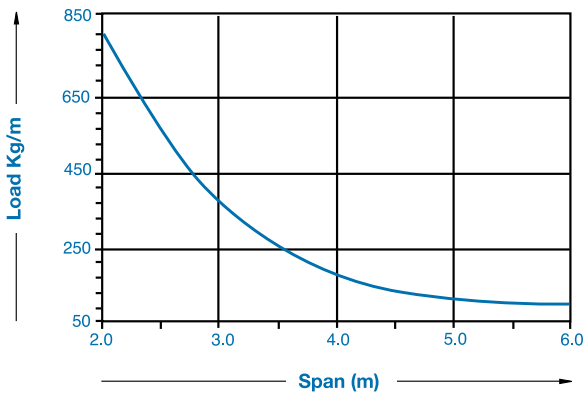
**Rung Spacing:** 300mm nominal

**PARTS LIST**

Dim "W"	Type	Part No.
150	20	AL20 150
300	20	AL20 300
450	20	AL20 450
600	20	AL20 600

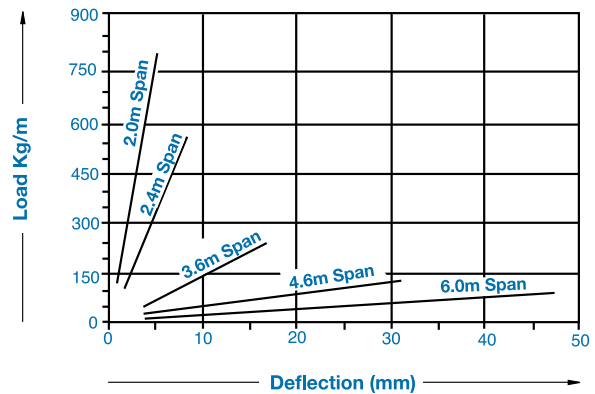


**ALLOWABLE LOAD GRAPH**



Allowable loads are determined generally in accordance with NEMA standard VE 1 and verified by testing. Safety factor = 1.5 on collapse load for single span.

**DEFLECTION GRAPH**



Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

# UNISTRUT®

## NEMA 20C CABLE LADDER - ALUMINIUM

### TECHNICAL DATA

**Cable Laying Depth:** 125mm

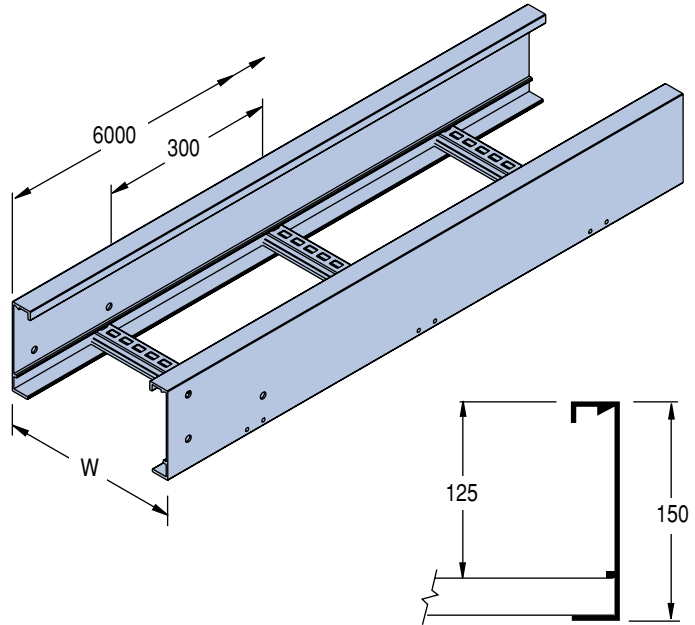
**Loading Data:**

Basic Load Capacity  
175kg/lin.m on 6m span

**Length:** 6m

**Rung Spacing:** 300mm nominal

**Standard Finish:** Aluminium, Mill Finish

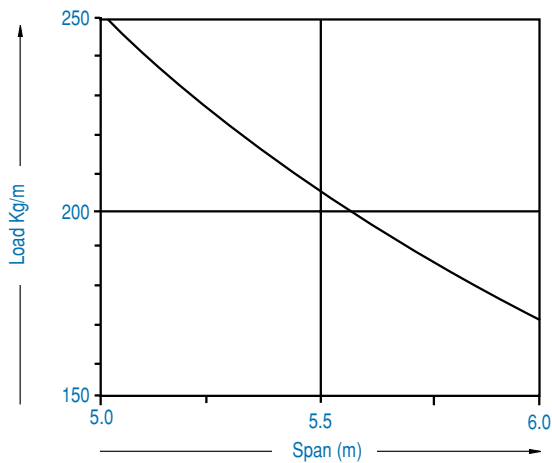


### PARTS LIST

Dim "W"	Type	Part No.
150	20C	LAL101W
300	20C	LAL103W
450	20C	LAL104W
600	20C	LAL106W

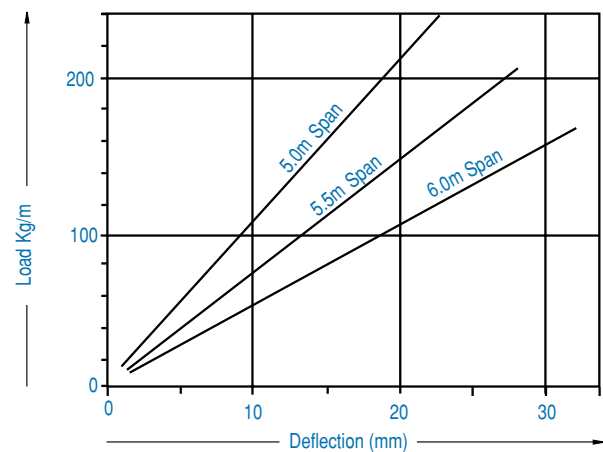
\* Splice plate & fixing screws are not included (order separately).

### ALLOWABLE LOAD GRAPH



Allowable loads are determined generally in accordance with NEMA Standard VE1 and verified by testing. Safety Factor = 1.5 on collapse load for single span.

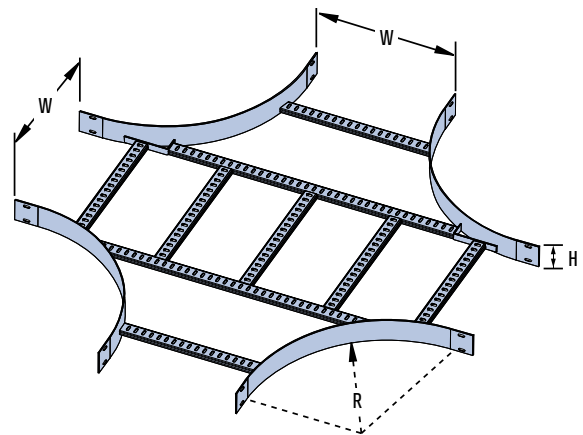
### DEFLECTION GRAPH



Deflections shown apply to the end-bays (ie. worst case) of a continuous ladder run. To find deflection of a single span, multiply by 2.5.

## FLAT CROSS - AL

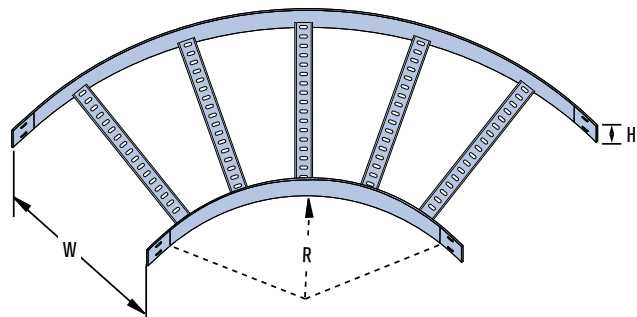
Type	Radius "R"	Width "W"	Height "H"	Part No.
12	300	150	90	AL12FC150R3
12	300	300	90	AL12FC300R3
12	300	450	90	AL12FC450R3
12	300	600	90	AL12FC600R3
16	450	150	100	AL16FC150R4
16	450	300	100	AL16FC300R4
16	450	450	100	AL16FC450R4
16	450	600	100	AL16FC600R4
20	450	150	120	AL20FC150R4
20	450	300	120	AL20FC300R4
20	450	450	120	AL20FC450R4
20	450	600	120	AL20FC600R4
20C	600	150	150	LAL181R6
20C	600	300	150	LAL183R6
20C	600	450	150	LAL184R6
20C	600	600	150	LAL186R6



FLAT CROSS

## FLAT BEND 90° - AL

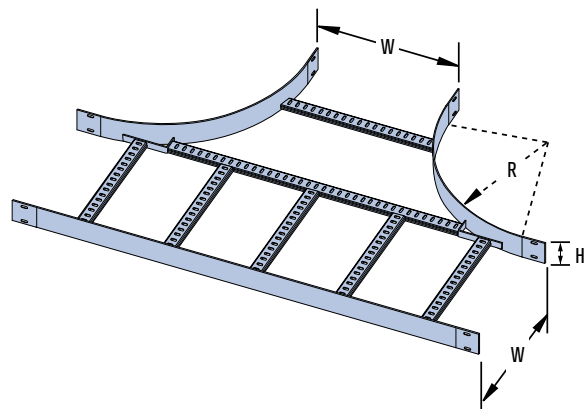
Type	Radius "R"	Width "W"	Height "H"	Part No.
12	300	150	90	AL12FB150R3
12	300	300	90	AL12FB300R3
12	300	450	90	AL12FB450R3
12	300	600	90	AL12FB600R3
16	450	150	100	AL16FB150R4
16	450	300	100	AL16FB300R4
16	450	450	100	AL16FB450R4
16	450	600	100	AL16FB600R4
20	450	150	120	AL20FB150R4
20	450	300	120	AL20FB300R4
20	450	450	120	AL20FB450R4
20	450	600	120	AL20FB600R4
20C	600	150	150	LAL111R6
20C	600	300	150	LAL113R6
20C	600	450	150	LAL114R6
20C	600	600	150	LAL116R6



FLAT BEND 90°

## TEE - AL

Type	Radius "R"	Width "W"	Height "H"	Part No.
12	300	150	90	AL12T150R3
12	300	300	90	AL12T300R3
12	300	450	90	AL12T450R3
12	300	600	90	AL12T600R3
16	450	150	100	AL16T150R4
16	450	300	100	AL16T300R4
16	450	450	100	AL16T450R4
16	450	600	100	AL16T600R4
20	450	150	120	AL20T150R4
20	450	300	120	AL20T300R4
20	450	450	120	AL20T450R4
20	450	600	120	AL20T600R4
20C	600	150	150	LAL191R6
20C	600	300	150	LAL193R6
20C	600	450	150	LAL194R6
20C	600	600	150	LAL196R6



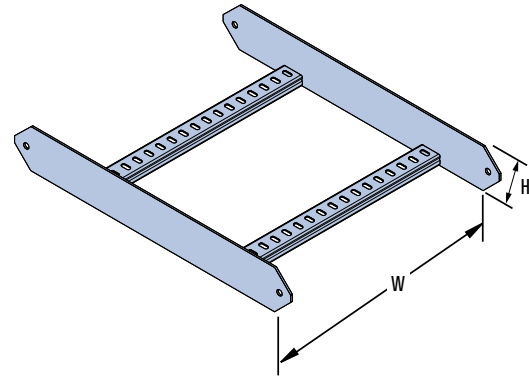
TEE

\* Fixing Hardware for all cable ladder systems must be ordered separately.

# NEMA CABLE LADDER - RISERS - ALUMINIUM

## ADJUSTABLE RISER - AL

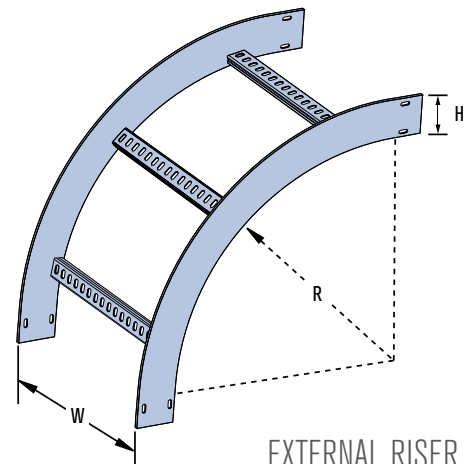
Type	Width "W"	Height "H"	Part No.
12	150	90	AL12AR-150W
12	300	90	AL12AR-300W
12	450	90	AL12AR-450W
12	600	90	AL12AR-600W
16	150	100	AL16AR-150W
16	300	100	AL16AR-300W
16	450	100	AL16AR-450W
16	600	100	AL16AR-600W
20	150	120	AL20AR-150W
20	300	120	AL20AR-300W
20	450	120	AL20AR-450W
20	600	120	AL20AR-600W
20C	150	150	LAL141
20C	300	150	LAL143
20C	450	150	LAL144
20C	600	150	LAL146



ADJUSTABLE RISER

## EXTERNAL RISER - 90° - AL

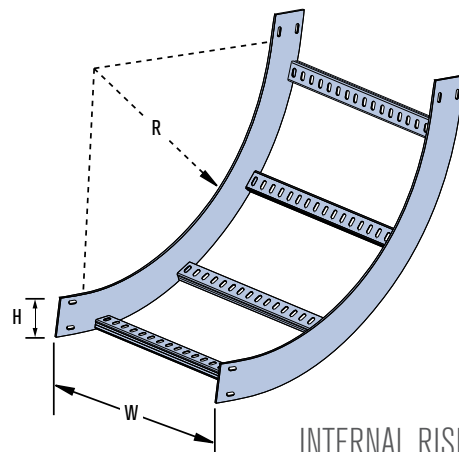
Type	Radius "R"	Width "W"	Height "H"	Part No.
12	300	150	90	AL12ER150R3
12	300	300	90	AL12ER300R3
12	300	450	90	AL12ER450R3
12	300	600	90	AL12ER600R3
16	450	150	100	AL16ER150R4
16	450	300	100	AL16ER300R4
16	450	450	100	AL16ER450R4
16	450	600	100	AL16ER600R4
20	450	150	120	AL20ER150R4
20	450	300	120	AL20ER300R4
20	450	450	120	AL20ER450R4
20	450	600	120	AL20ER450R4
20C	600	150	150	LAL131R6
20C	600	300	150	LAL133R6
20C	600	450	150	LAL134R6
20C	600	600	150	LAL136R6



EXTERNAL RISER - 90°

## INTERNAL RISER - 90° - AL

Type	Radius "R"	Width "W"	Height "H"	Part No.
12	300	150	90	AL12IR150R3
12	300	300	90	AL12IR300R3
12	300	450	90	AL12IR450R3
12	300	600	90	AL12IR600R3
16	450	150	100	AL16IR150R4
16	450	300	100	AL16IR300R4
16	450	450	100	AL16IR450R4
16	450	600	100	AL16IR600R4
20	450	150	120	AL20IR150R4
20	450	300	120	AL20IR300R4
20	450	450	120	AL20IR450R4
20	450	600	120	AL20IR450R4
20C	600	150	150	LAL121R6
20C	600	300	150	LAL123R6
20C	600	450	150	LAL124R6
20C	600	600	150	LAL126R6

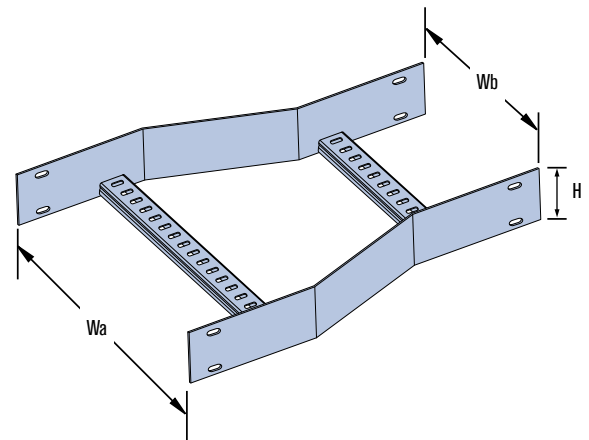


INTERNAL RISER - 90°

\* Fixing Hardware for all cable ladder systems must be ordered separately.

## STRAIGHT REDUCER - AL

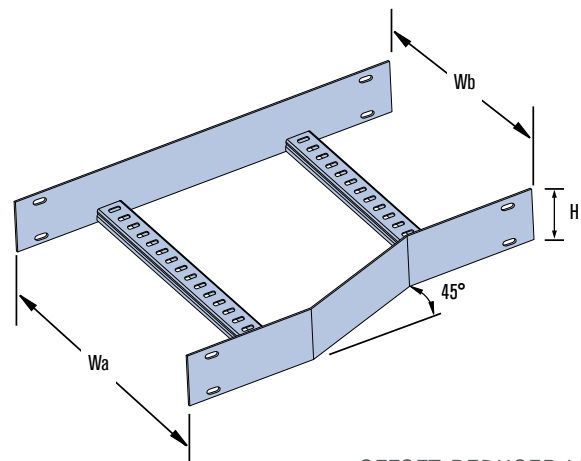
Type	Width "Wa"	Width "Wb"	Height "H"	Part No.
12	300	150	90	AL12SR31
12	450	150	90	AL12SR41
12	450	300	90	AL12SR43
12	600	150	90	AL12SR61
12	600	300	90	AL12SR63
12	600	450	90	AL12SR64
16	300	150	100	AL16SR31
16	450	150	100	AL16SR41
16	450	300	100	AL16SR43
16	600	150	100	AL16SR61
16	600	300	100	AL16SR63
16	600	450	100	AL16SR64
20	300	150	120	AL20SR31
20	450	150	120	AL20SR41
20	450	300	120	AL20SR43
20	600	150	120	AL20SR61
20	600	300	120	AL20SR63
20	600	450	120	AL20SR64
20C	300	150	150	LAL1531
20C	450	150	150	LAL1541
20C	450	300	150	LAL1543
20C	600	150	150	LAL1561
20C	600	300	150	LAL1563
20C	600	450	150	LAL1564



STRAIGHT REDUCER

## OFFSET REDUCER LH - AL

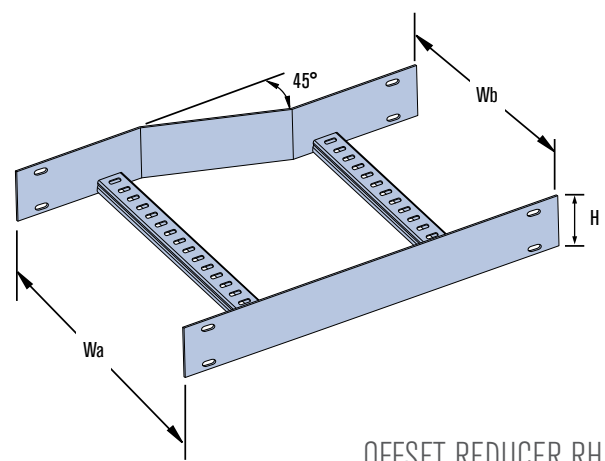
Type	Width "Wa"	Width "Wb"	Height "H"	Part No.
12	300	150	90	AL12LHR31
12	450	150	90	AL12LHR41
12	450	300	90	AL12LHR43
12	600	150	90	AL12LHR61
12	600	300	90	AL12LHR63
12	600	450	90	AL12LHR64
16	300	150	100	AL16LHR31
16	450	150	100	AL16LHR41
16	450	300	100	AL16LHR43
16	600	150	100	AL16LHR61
16	600	300	100	AL16LHR63
16	600	450	100	AL16LHR64
20	300	150	120	AL20LHR31
20	450	150	120	AL20LHR41
20	450	300	120	AL20LHR43
20	600	150	120	AL20LHR61
20	600	300	120	AL20LHR63
20	600	450	120	AL20LHR64
20C	300	150	150	LAL1731
20C	450	150	150	LAL1741
20C	450	300	150	LAL1743
20C	600	150	150	LAL1761
20C	600	300	150	LAL1763
20C	600	450	150	LAL1764



OFFSET REDUCER LH

## OFFSET REDUCER RH - AL

Type	Width "Wa"	Width "Wb"	Height "H"	Part No.
12	300	150	90	AL12RHR31
12	450	150	90	AL12RHR41
12	450	300	90	AL12RHR43
12	600	150	90	AL12RHR61
12	600	300	90	AL12RHR63
12	600	450	90	AL12RHR64
16	300	150	100	AL16RHR31
16	450	150	100	AL16RHR41
16	450	300	100	AL16RHR43
16	600	150	100	AL16RHR61
16	600	300	100	AL16RHR63
16	600	450	100	AL16RHR64
20	300	150	120	AL20RHR31
20	450	150	120	AL20RHR41
20	450	300	120	AL20RHR43
20	600	150	120	AL20RHR61
20	600	300	120	AL20RHR63
20	600	450	120	AL20RHR64
20C	300	150	150	LAL1631
20C	450	150	150	LAL1641
20C	450	300	150	LAL1643
20C	600	150	150	LAL1661
20C	600	300	150	LAL1663
20C	600	450	150	LAL1664



OFFSET REDUCER RH

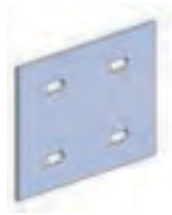
\* Fixing Hardware for all cable ladder systems must be ordered separately.



# NEMA ALUMINIUM CABLE LADDER - ACCESSORIES

## SPLICE PLATE

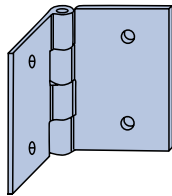
Type	Part No.
12	AL12SP
16	AL16SP
20	AL20SP
20C	LAL30



The unique Unistrut® aluminium splice plate is close fitting and shaped so that it is retained neatly and firmly between mating flanges incorporated in the ladder-side rails.

## HINGED HORIZONTAL SPLICE

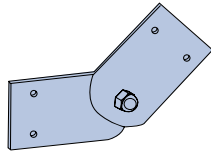
Type	Part No.
12	AL12HHS
16	AL16HHS
20	AL20HHS
20C	LAL35



A fast and economical method of changing ladder direction where exact site dimensions must be met. Especially suitable where the angle is less than 45°, or larger angles where the cable bending radius is not important. Also provides a flexible alternative to standard accessory sizes and radii. Suits all Unistrut® aluminium cable ladder systems.

## HINGED VERTICAL SPLICE

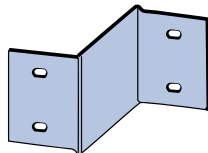
Type	Part No.
12	AL12HVS
16	AL16HVS
20	AL20HVS
20C	LAL36



Ideal for making changes in vertical level or direction. Easily adapts to exact site dimensions which may otherwise be difficult to achieve with fixed risers. Cables form their own bending radius spanning between adjacent end-rungs. Also used to form adjustable risers providing flexibility to adjust to any site restrictions.

## REDUCER SPLICE

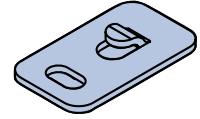
Type	Width "mm"	Part No.
12	75	AL12RS75
12	150	AL12RS150
12	300	AL12RS300
16	75	AL16RS75
16	150	AL16RS150
16	300	AL16RS300
20	75	AL20RS75
20	150	AL20RS150
20	300	AL20RS300
20C	75	LAL380
20C	150	LAL381
20C	300	LAL383



Reduction of ladder width is normally carried out using straight or offset reducers. Reducer splice plates are a flexible, cost effective alternative which bolt directly to the ladder side-rails. Available for all aluminium cable ladder systems.

## EXPANSION HOLD DOWN BRACKET

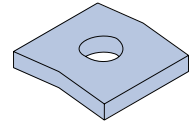
Type	Part No.
AL12,16,20	ALEHD
20C	LAL50



General purpose hold-down bracket can be positioned at any point along ladder length, even in the situation where a rung and support member coincide. The bracket provides a large bearing area for the side-rail and permits free expansion movement to occur. For side mounted ladders, or where rigid fixing of ladder is required, the rigid clamping bracket can be used.

## RIGID HOLD DOWN BRACKET

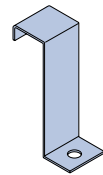
Type	Part No.
All Aluminium Systems	ALRHD



General purpose hold-down bracket can be positioned at any point along ladder length, even in the situation where a rung and support member coincide. The bracket provides a large bearing area for the side-rail and permits free expansion movement to occur. For side mounted ladders, or where rigid fixing of ladder is required, the rigid clamping bracket can be used.

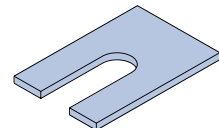
## Z HOLD DOWN BRACKET

Type	Part No.
AL12	AL12ZHDBSS
AL16	AL16ZHDBSS
AL20	AL20ZHDBSS
20C	LAL20CZHDBSS



## INTERFACE SPACER

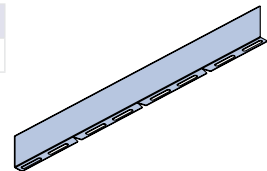
Type	Part No.
All Aluminium Systems	ALS54



Used to separate cable ladder and supports in corrosive environments.

## DIVIDER STRIP

Type	Part No.
All Aluminium Systems	ALDS3



Divider Strip is used to separate cables of different voltages or circuits. The notched base permits forming to the required shape.

# NEMA ALUMINIUM CABLE LADDER - ACCESSORIES

### AL12, AL16, AL20 & 20C SPLICE PLATE

Screws and nuts to be ordered separately.

### HOLD DOWN BRACKETS

Can be positioned at any point along ladder length. Brackets provide rigid clamping for all aluminium systems.

### BUILT IN SPLICE

Screws and nuts same as for straight plates - order separately.

Ladder Side Rail

Accessory side rail with built in splice

### DIVIDER STRIP

Used to separate cables of different voltages or circuits. The notched base permits forming to the required shape. Fix at 1m centres.

# NEMA ALUMINIUM CABLE LADDER - FASTENERS

Splice Plates—Straight, Hinged Horizontal & Hinged Vertical	Description	Part No.	Quantity Required
AL12, AL16, AL20	Aluminium Ladder Nut & Bolt Pk50 316SS	AL43SS	4 Per Splice Plate
20C	20C Splice Nut 316SS 20C Hex Head Splice Screw 316SS	LAL41 LAL42	4 Per Splice Plate 4 Per Splice Plate

Self Splicing Accessories	Description	Part No.	Quantity Required
AL12, AL16, AL20 - Bend, Riser or Reducer	Aluminium Ladder Nut & Bolt Pk50 MG	AL43MG	8 per Bend, Riser or Reducer
AL12, AL16, AL20 - Tee	Aluminium Ladder Nut & Bolt Pk50 MG	AL43MG	12 per Tee
AL12, AL16, AL20 - Cross	Aluminium Ladder Nut & Bolt Pk50 MG	AL43MG	16 per Cross
20C - Bend, Riser or Reducer	20C Splice Nut 316SS 20C Hex Head Splice Screw 316SS	LAL41 LAL42	8 per Bend, Riser or Reducer 8 per Bend, Riser or Reducer
20C - Tee	20C Splice Nut 316SS 20C Hex Head Splice Screw 316SS	LAL41 LAL42	12 per Tee 12 per Tee
20C - Cross	20C Splice Nut 316SS 20C Hex Head Splice Screw 316SS	LAL41 LAL42	16 per Cross 16 per Cross

Divider Strip	Description	Part No.	Quantity Required
AL12, AL16, AL20, 20C	Divider Strip Screw	PHS0620SS	3 per Length
AL12, AL16, AL20, 20C	Divider Strip Washer	FW06SS	3 per Length
AL12, AL16, AL20, 20C	Divider Strip Nut	P3016SS	3 per Length

Hold Down Bracket - Expansion	Description	Part No.	Quantity Required
AL12, AL16, AL20, 20C	Expansion Hold Down Screw	HHS1225SS	1 per Bracket
AL12, AL16, AL20, 20C	Expansion Hold Down Nut	P1013SS	1 per Bracket
AL12, AL16, AL20, 20C	Expansion Hold Down Washer	FW12SS	1 per Bracket

Hold Down Bracket - Rigid	Description	Part No.	Quantity Required
AL12, AL16, AL20, 20C	Expansion Hold Down Screw	HHS1230SS	1 per Bracket
AL12, AL16, AL20, 20C	Expansion Hold Down Nut	P1013SS	1 per Bracket

Fixing hardware for all Cable Ladder Systems must be ordered separately.

# CABLE LADDER AND CABLE TRAY COVERS - ALUMINIUM

## LADDER AND TRAY COVERS

Covers are normally specified where protection is required:

1. To safeguard against damage to cable and insulation from falling objects—dropped tools, discarded cigarettes, sparks or solid materials.
2. Covers protect cable insulation and fixings (plastic ties etc.) from harmful effects of ultra-violet light and/or weathering deterioration.
3. In areas where high levels of airborne particles are present, covers prevent accumulation of dust or other debris on cables, which may cause heat build up, fire hazards or absorb moisture, which may shorten life of installation.

## AVAILABILITY

Standard covers are available for all Unistrut® cable ladder systems. Standard length is 3 meters. Flat, peaked or ventilated covers are available by special order.

## MATERIAL

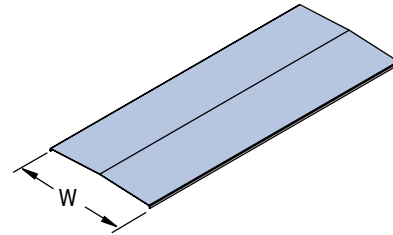
Aluminium Alloy 5005. Suitable for marine applications and compatible with the 6063-T6 alloy used in ladders.

## ALUMINIUM STANDARD COVERS

Type	Nominal Width	Width	Part Number
UT3 / UT5 / AL12	150	175	AL12LC150
UT3 / UT5 / AL12	300	325	AL12LC300
UT3 / UT5 / AL12	450	475	AL12LC450
UT3 / UT5 / AL12	600	625	AL12LC600
AL16 / AL20	150	189	AL16LC150
AL16 / AL20	300	339	AL16LC300
AL16 / AL20	450	489	AL16LC450
AL16 / AL20	600	639	AL16LC600
20C	150	156	LAM6013
20C	300	306	LAM6033
20C	450	456	LAM6043
20C	600	606	LAM6063

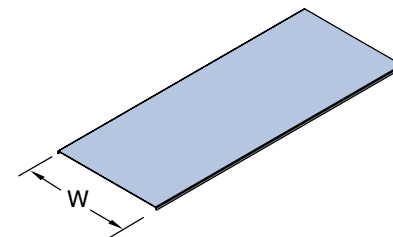
## SPECIAL ORDER STYLES

Style	Part Number
Flat—F	eg. AL...3F
Vented—V	eg. AL...3V
15° Peaked—P1	eg. AL...3P1
30° Peaked—P3	eg. AL...3P3
15° Peaked & Vented—P1V	eg. AL...3P1V
30° Peaked & Vented—P3V	eg. AL...3P3V



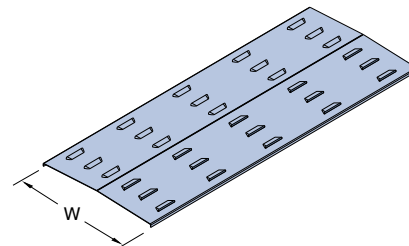
## STANDARD COVERS

The most common type used. The 3-5° crease allows for maximum protection to cables. The standard cover has a 3-5° crease for added rigidity.



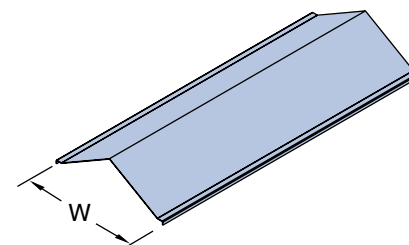
## FLAT COVERS

Most commonly used where there is space restrictions and the use of standard and peaked covers is not practical.



## VENTILATED COVERS

Should be used wherever reasonable protection for cables is required and where there is also a primary requirement to allow the escape of heat generated by cable.

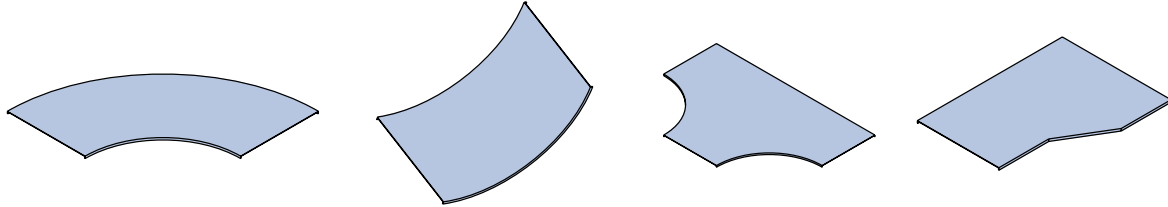


## PEAKED COVERS

Used in very dusty situations where the self cleaning effect of sloping sides prevents excessive dust accumulations. The large air-space above the cables also assists with the dissipation of heat.

### ACCESSORY COVERS-ALUMINIUM

Flat covers are available to match shaped accessories for all Unistrut® aluminium Cable Ladder Systems.



### ALUMINIUM SHAPE COVERS FLAT

Type	Shape	Part Number
AL12 / AL16 / AL20 & 20C	BEND	ALBC*R#
AL12 / AL16 / AL20 & 20C	INTERNAL RISER	ALIR*R#
AL12	EXTERNAL RISER	AL12ERC*R#
AL16	EXTERNAL RISER	AL16ERC*R#
AL20	EXTERNAL RISER	AL20ERC*R#
20C	EXTERNAL RISER	AL20CERC*R#
AL12 / AL16 / AL20 & 20C	CROSS	ALCC*R#
AL12 / AL16 / AL20 & 20C	TEE	ALTC*R#
AL12 / AL16 / AL20 & 20C	STRAIGHT REDUCER	ALSRC**
AL12 / AL16 / AL20 & 20C	RIGHT HAND REDUCER	ALRRC**
AL12 / AL16 / AL20 & 20C	LEFT HAND REDUCER	ALLRC**

* Shape Width	# Shape Radius
150mm = "1"	300mm = "3"
300mm = "3"	450mm = "4"
450mm = "4"	600mm = "6"
600mm = "6"	900mm = "9"

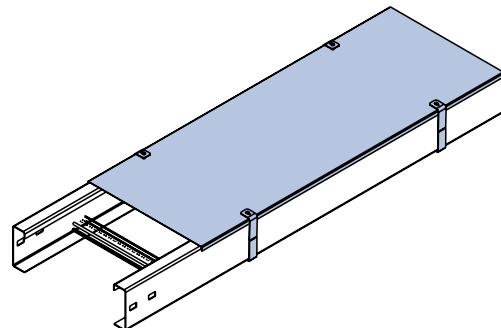
*Reducer Covers— part numbers for reducer covers are made up of two widths. The first width being the widest and the second being the smallest. EG. A Right Hand Reducer to reduce from 450mm to 150mm will have the part number ALRRC41.*

### SPECIAL ORDER STYLES

Style	Part Number
Flat-F	eg. AL...3F
Vented-V	eg. AL...3V
15° Peaked-P1	eg. AL...3P1
30° Peaked-P3	eg. AL...3P3
15° Peaked & Vented-P1V	eg. AL...3P1V
30° Peaked & Vented-P3V	eg. AL...3P3V

### CABLE LADDER COVER FIXINGS

Covers are retained in position by means of cover clips as illustrated. Manufactured from high strength stainless steel, these unique clips, which have no thread components to freeze up are quickly installed and are also easily removed or replaced at a later date. One size of clip for each ladder system suits both ladder and accessory covers.



### RECOMMENDED SPACING FOR COVER CLIPS

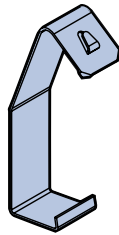
Service conditions	Design Wind velocity, Vz (AS1170)	Ladder Width, mm			
		600	450	300	150
Up to and including exposed external locations	50m/s	1.2m	1.2m	1.2m	1.2m
Cyclonic Areas	65m/s	0.6m	0.8m	1.2m	1.2m

**UNISTRUT®**

**CABLE TRAY AND CABLE LADDER COVERS - ALUMINIUM**

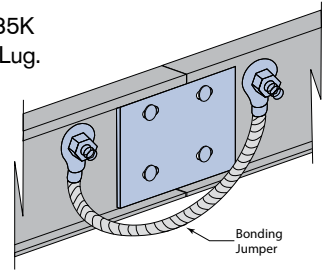
**SS CLIPS**

Type	Part No.
AL12	AL12CC
AL16	AL16CC
AL20	AL20CC
20C	LAL90



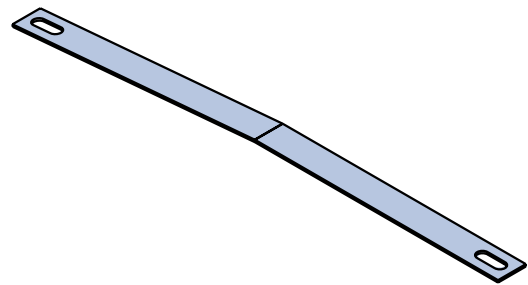
**EARTH KIT**

**Part Number:** LEMES35K  
 35mm<sup>2</sup> 440L with M10 Lug.  
 Supplied with M10 fasteners for installation



**COVER STRAPS [HG]**

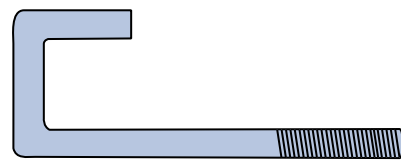
Type	Ladder Width	Part Number
AL12	150	AL12CS1AL
AL12	300	AL12CS3AL
AL12	450	AL12CS4AL
AL12	600	AL12CS6AL
AL16	150	AL16CS1AL
AL16	300	AL16CS3AL
AL16	450	AL16CS4AL
AL16	600	AL16CS6AL
AL20	150	AL20CS1AL
AL20	300	AL20CS3AL
AL20	450	AL20CS4AL
AL20	600	AL20CS6AL
20C	150	LAL931
20C	300	LAL933
20C	450	LAL934
20C	600	LAL936



*Note: Also available to suit peaked cover.*

**HOOK BOLT & WING NUT [MG]**

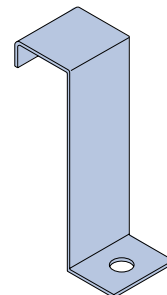
Type	Ladder Width	Part Number
AL12	HOOK BOLT	AL12HBSS
AL16	HOOK BOLT	AL16HBSS
AL20	HOOK BOLT	AL20HBSS
20C	HOOK BOLT	LUK8873
ALL HOOK BOLTS	WING NUT	WN10SS



*Note: Two hook bolts and wing nuts are used to attach the cover straps. Hook bolts and wing nuts are sold separately.*

**Z HOLD DOWN BRACKET**

Type	Part No.
AL12	AL12ZHDBSS
AL16	AL16ZHDBSS
AL20	AL20ZHDBSS
20C	LAL20CZHDBSS

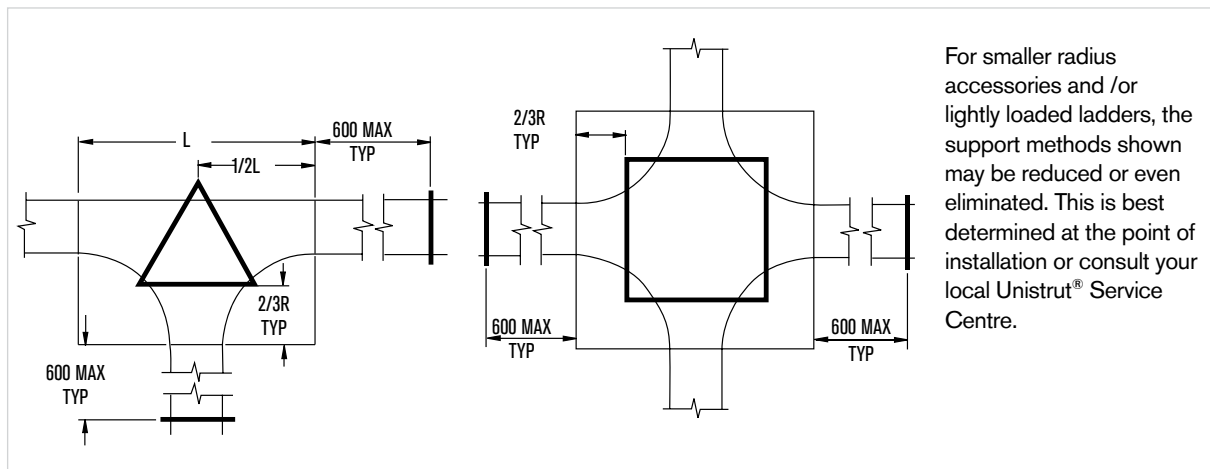


# NEMA CABLE LADDER ACCESSORIES SUPPORTS

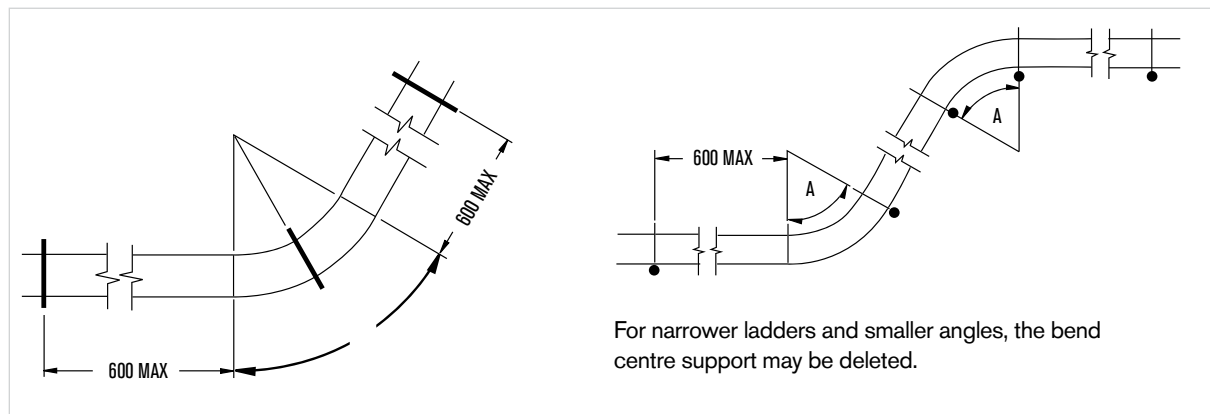
Accessories for all Unistrut® cable ladder systems are available in the four standard widths - 150, 300, 450 or 600mm. SCL (Steel Cable Ladder) and ACL (Aluminium Cable Ladder).

Steel Cable Ladder		Aluminium Cable Ladder	
Ladder System	Standard Radius	Ladder System	Standard Radius
Nema 12B	300mm	AL12	300mm
Nema 16A, Nema 20B	450mm	AL16, AL20	450mm
Nema 20C	600mm	20C	600mm

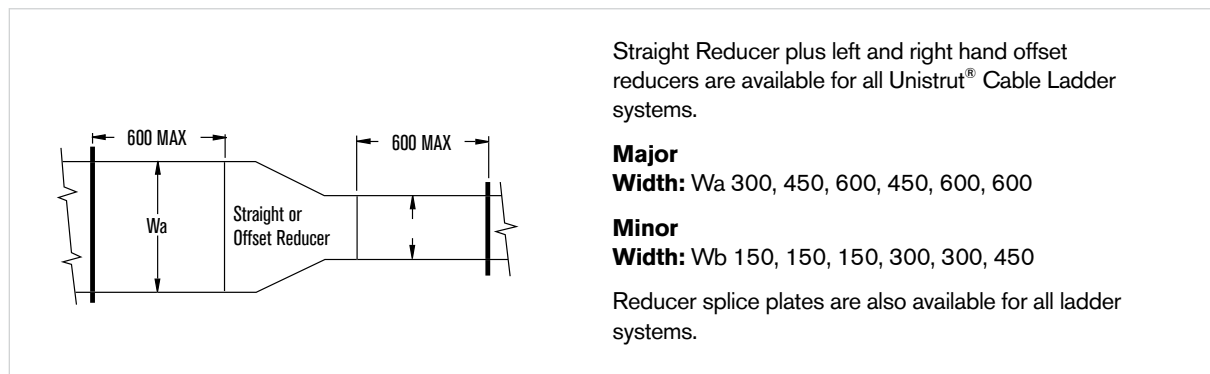
Fixed bends and Internal or External Risers are readily available with a 90° angle. Other angles (30°, 45° or 60°) and other radii (300, 450, 600 or 900mm) can be supplied on special request. The radii also applies to Tees and Crosses. All support locations below are in accordance with NEMA standard VE2.



For smaller radius accessories and /or lightly loaded ladders, the support methods shown may be reduced or even eliminated. This is best determined at the point of installation or consult your local Unistrut® Service Centre.



For narrower ladders and smaller angles, the bend centre support may be deleted.



Straight Reducer plus left and right hand offset reducers are available for all Unistrut® Cable Ladder systems.

**Major Width:** Wa 300, 450, 600, 450, 600, 600

**Minor Width:** Wb 150, 150, 150, 300, 300, 450

Reducer splice plates are also available for all ladder systems.

**UNISTRUT®****UNI-TRAY® , RITEWAY, ACROFIL® , CABLE DUCTING****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.

**RITEWAY 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**


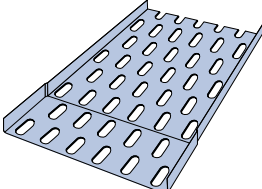
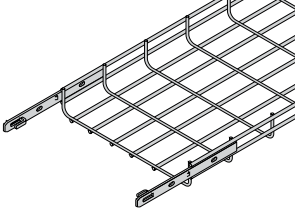

Ideal for a variety of applications, our wire baskets feature a self-splicing system designed to be simple to assemble and proven to be 80% faster in mounting time than standard splicing – eliminating the need for nut and bolt connections.

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


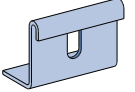
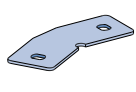
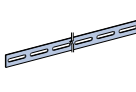
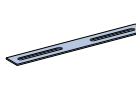

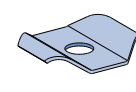
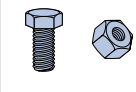
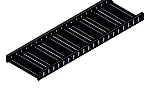
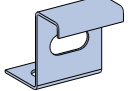
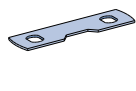
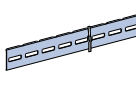
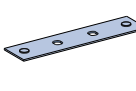
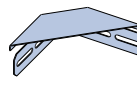
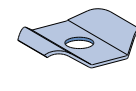

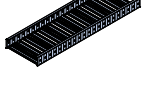
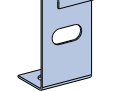
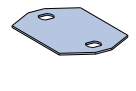
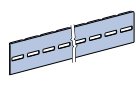
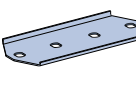
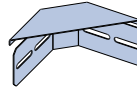
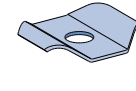


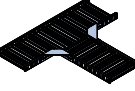


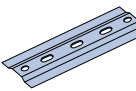
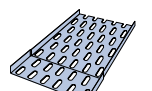
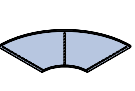
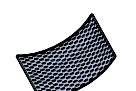
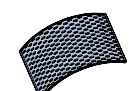


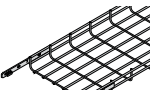


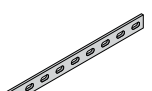
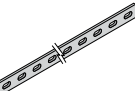
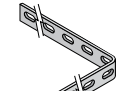
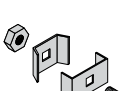
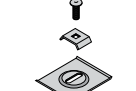
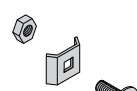
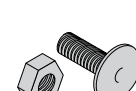
**CABLE DUCTING**

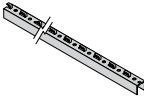
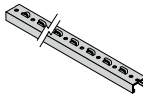
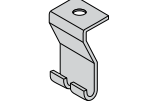
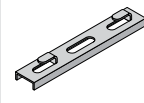
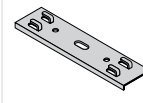
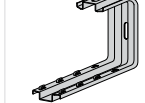
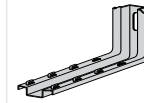
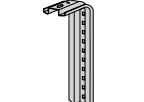
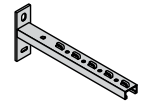
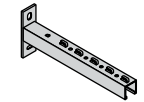
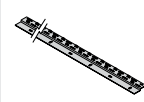
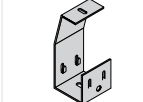
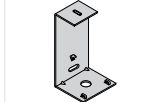
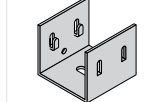
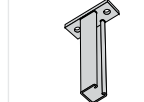
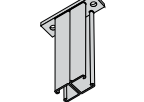
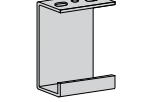
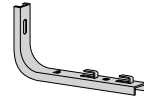

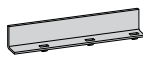

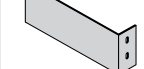
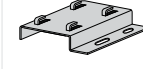




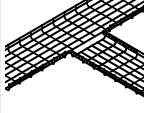

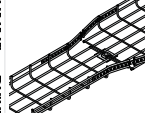
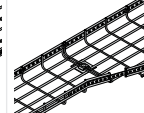
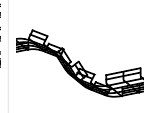
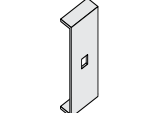
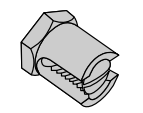
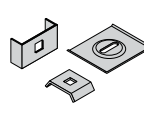
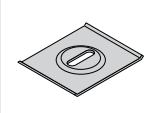








The cable duct system is designed to be quick and simple to assemble, providing real time saving as well as remaining a reliable product throughout its natural life cycle.

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®	RITEWAY	ACROFIL®	CABLE DUCTING
			
PG. 95	PG. 102	PG. 104	PG. 132



UNI-TRAY® & ACCESSORIES							
							
UT1 - UNI-TRAY® PG. 95	HOLD DOWN BRACKET PG. 96	LINK PLATE PG. 96	RADIUS PLATE PG. 96	SPLICE PLATE PG. 96	GUSSET PG. 96	CENTER HOLD DOWN CLAMP PG. 96	HARDWARE PG. 96
							
UT3 - UNI-TRAY® PG. 97	HOLD DOWN BRACKET PG. 98	LINK PLATE PG. 98	RADIUS PLATE PG. 98	SPLICE PLATE PG. 98	GUSSET PG. 98	CENTER HOLD DOWN CLAMP PG. 98	HARDWARE PG. 98
							
UT5 - UNI-TRAY® PG. 99	HOLD DOWN BRACKET PG. 100	LINK PLATE PG. 100	RADIUS PLATE PG. 100	SPLICE PLATE PG. 100	GUSSET PG. 100	CENTER HOLD DOWN CLAMP PG. 100	HARDWARE PG. 100
UNI-TRAY®							
							
UNI-TRAY® BEND PG. 101	UNI-TRAY® T-X BRACKET PG. 101	UNI-TRAY® EXTERNAL RISER PG. 101	UNI-TRAY® INTERNAL RISER PG. 101	TB - LIGHT DUTY TRAPEZE BRACKET PG. 101			
RITEWAY TRAY & ACCESSORIES							
							
RITEWAY TRAY PG. 102 / 103	RITEWAY BEND PG. 103	RITEWAY INTERNAL RISER PG. 103	RITEWAY EXTERNAL RISER PG. 103	RITEWAY TEE PG. 103	RITEWAY CROSS PG. 103		
ACROFIL® - WIRE MESH CABLE TRAY							
							
DOUBLE ROD REINFORCED TRAY [AF50 - (W)] PG. 107	TRIPLE ROD REINFORCED TRAY [AF100 - (W)] PG. 108	QUADRUPLE ROD REINFORCED TRAY [AF150 - (W)] PG. 109					
ACROFIL® JOINERS AND HARDWARE							
							
AF-SPLICE PG. 110	BEND & INTERSECTION BARS (650MM OR 1100MM LONG) PG. 110	BEND & INTERSECTION BARS PG. 110	CONNECTOR KIT (AF-KITCH1) PG. 111	CONNECTOR KIT (AF-KITCH2) PG. 112	CONNECTOR KIT (AF-KITCH3) PG. 112	CONNECTOR HARDWARE (AF-EG-CBN) PG. 112	

ACROFIL® SUPPORTS							
							
U SUPPORT BRACKET [AF-USB-3M] PG. 113	SUPPORT BRACKET MEDIUM [AF-MSB-3M] PG. 113	DROP ROD CLIP [AF-SIDECLIP] PG. 114	DROP ROD CLIP [AF-RODCLIP1] PG. 114	DROP ROD CLIP [AF-RODCLIP2] PG. 114	CEILING CLIP [AF-CCA-(W)] PG. 115	WALL CLIP [AF-CPA-(W)] PG. 115	
							
PENDANT [AF-PPA-(H)] PG. 115	CANTILEVER MEDIUM [AF-CANTM-(W)] PG. 116	CANTILEVER MEDIUM [AF-CANTH-(W)] PG. 116	ZED [AF-ZBAR-3M] PG. 116	HANGER [AF-HGR-50] PG. 117	HANGER [AF-HGR-100] PG. 117	WALL BRACKET [AF-WB-50] PG. 117	SINGLE CHANNEL PENDANT [P2663-(L)] PG. 117
							
BACK-TO-BACK CHANNEL PENDANT [P2542 TO P2546] PG. 118	HANGING BRACKET [AF-CB-MSB] PG. 119	BRACKET [AF-CMA-(W)] PG. 119					
ACROFIL® ACCESSORIES							
							
COVER [AF-CVR-(W)] PG. 120	TRAY DIVIDERS [AF-DIV50] & [AF-DIV100] PG. 120	DROP OUT [AF-(W)DO] PG. 120	BLIND END [AF(H)-BE(W)] PG. 121	LIGHTING BRACKET [AF-LIGHTB] PG. 122	ELECTRICAL BOX BRACKET [AF-JBOX] PG. 122		
ACROFIL® FITTINGS OVERVIEW							
							
AF-CUTTOOL PG. 123	90° LONG RADIUS BENDS PG. 124	90° SHORT RADIUS BENDS PG. 125	STANDARD TEE PG. 127	CROSS PG. 127	REDUCER PG. 128	OFFSET PG. 128	RISER PG. 128
ACROFIL® GROUNDING AND HARDWARE							
							
GROUNDING CLIP [AF-GCLIP] PG. 129	GROUNDING CLAMP / SPLIT BOLT PG. 129	TRAY CLIPS PG. 130	HOLD DOWN CLIP [AF-BCLIP] PG. 130	AFS41 FAST CLIP 304SS PG. 130			
METAL CABLE DUCTING							
							
CABLE DUCT STRAIGHT LENGTH PG. 132	CABLE DUCT ELBOW PG. 132	CABLE DUCT EQUAL TEE PG. 132	CABLE DUCT INSIDE RISER PG. 133	CABLE DUCT OUTSIDE RISER PG. 133	CABLE DUCT EQUAL CROSS PG. 133	CABLE DUCT END CAP PG. 133	

# UNISTRUT® UNI-TRAY® CABLE TRAY

## UT1 UNI-TRAY®

UT1 is available in differing finishes with 30mm side height, 3 metres in length and a variety of widths to meet all your application needs.

### FINISHES

#### Galvabond (GB)

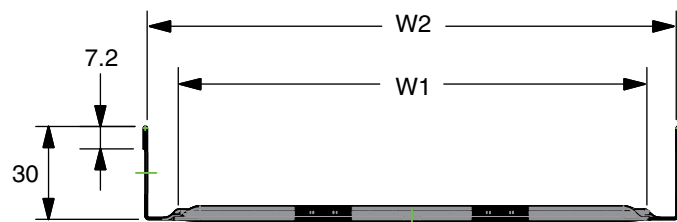
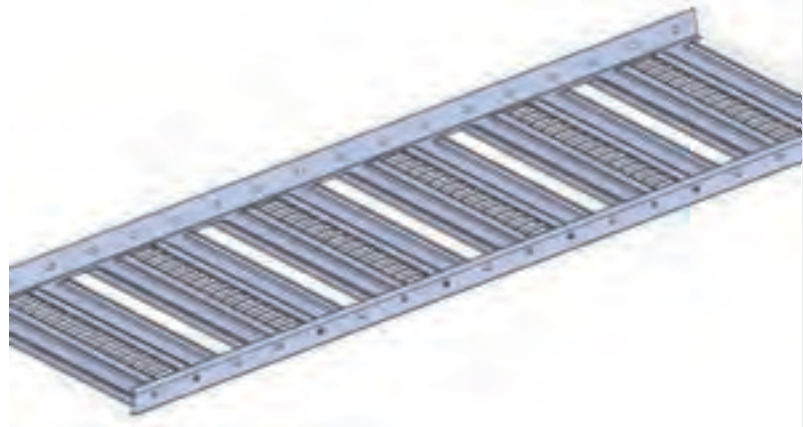
Base material is supplied ex the Steel Mill in pre-galvanised finish, in accordance with AS/NZS 1397, with a coating class of Z275. The material is slit to width, punched, and formed in the UNI-TRAY® profile.

#### Hot Dipped Galvanised (HG)

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.

#### Other – Powder Coated (PC), Pre-Galv (PG), Plain (PL)

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

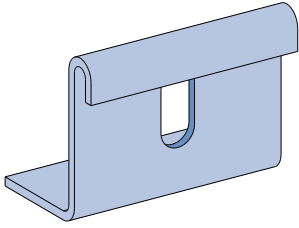


GB Code	Cable Laying Width mm "W1"	Overall Width mm "W2"	Cable Laying Depth mm	Length mm	Overall Height mm
UT1-075	75	98	25	3000	30
UT1-100	100	123	25	3000	30
UT1-150	150	173	25	3000	30
UT1-225	225	248	25	3000	30
UT1-300	300	323	25	3000	30

Basic Load 20kgs/Linea Meter on 1.5 meter span.

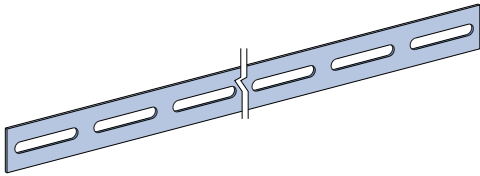
# UNISTRUT® UT1 ACCESSORIES

## HOLD DOWN BRACKET



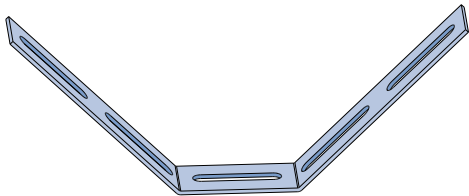
Description	Finish	Part No.	Finish	Part No.
Hold Down Bracket	GB	UT1HDB	HG	UT1HDBH

## RADIUS PLATE



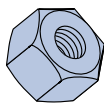
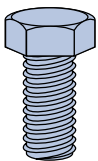
Description	Finish	Part No.	Finish	Part No.
Radius Plate 1000mm	GB	UT1RP	HG	UT1RPH

## GUSSET



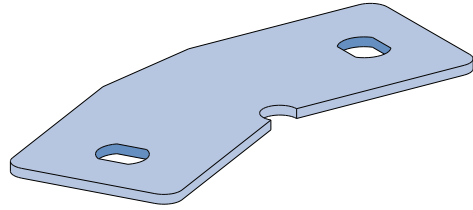
Description	Finish	Part No.	Finish	Part No.
Tray Gusset	GB	UT1TG	HG	UT1TGH

## HARDWARE



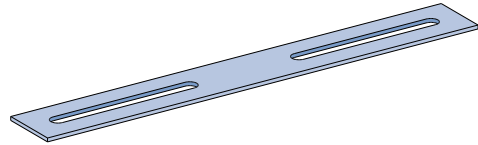
Description	Finish	Part No.	Finish	Part No.
Hex Head Bolt M6 x 20	ZP	HHS0620	HG	HHS0620H
Hex Nut M6	ZP	HNO6	HG	HNO6H

## LINK PLATE



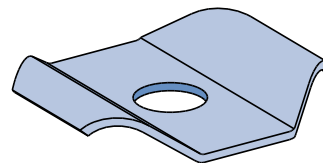
Description	Finish	Part No.	Finish	Part No.
Link Plate	GB	UT1LP	HG	UT1LPH

## SPLICE PLATE



Description	Finish	Part No.	Finish	Part No.
Splice Plate	GB	UT1SP	HG	UT1SPH

## CENTER HOLD DOWN CLAMP



Description	Finish	Part No.	Finish	Part No.
Center Down Clamp	GB	UTCHD	HG	UTCHDH

# UNISTRUT® UNI-TRAY® CABLE TRAY

## UT3 UNI-TRAY®

UT3 is available in differing finishes with 50mm side height, 3 metres in length and a variety of widths to meet all your application needs.

### FINISHES

#### Galvabond (GB)

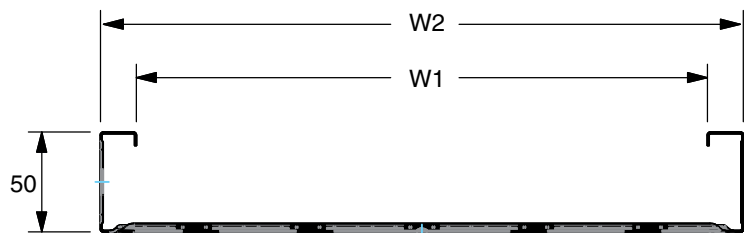
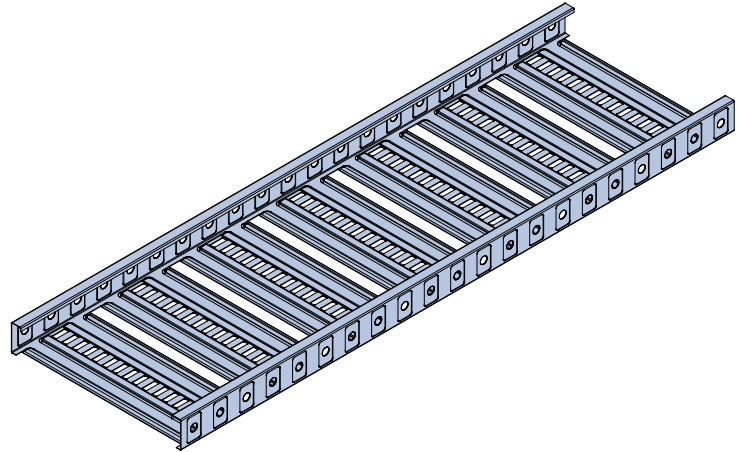
Base material is supplied ex the Steel Mill in pre-galvanised finish, in accordance with AS/NZS 1397, with a coating class of Z275. The material is slit to width, punched, and formed in the UNI-TRAY® profile.

#### Hot Dipped Galvanised (HG)

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.

#### Other - Powder Coated (PC)

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



GB Code	Cable Laying Width mm "W1"	Overall Width mm "W2"	Cable Laying Depth mm	Length mm	Overall Height mm
UT3-150	150	172	45	3000	50
UT3-300	300	322	45	3000	50
UT3-450	450	472	45	3000	50
UT3-600	600	622	45	3000	50

Basic Load 125kgs/Linea Meter on 1.5 meter span.

#### Deflections mm

	10mm	20mm	25mm	35mm
Span 1.5 meters				
Span 2.0 meters				
Span 2.4 meters				
Span 3.0 meters				

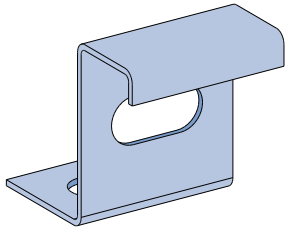
#### Allowable Load

125kg/m      75kg/m      50kg/m      35kg/m

Note: The deflections have been provided as a guide based on CONTINUOUS spans.

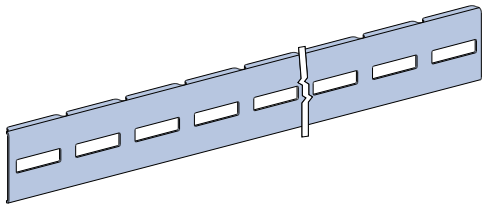
# UNISTRUT® UT3 ACCESSORIES

## HOLD DOWN BRACKET



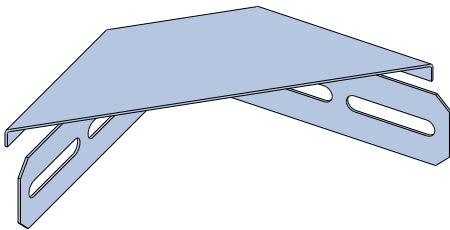
Description	Finish	Part No.	Finish	Part No.
Hold Down Bracket	GB	UT3HDB	HG	UT3HDBH

## RADIUS PLATE



Description	Finish	Part No.	Finish	Part No.
Radius Plate 3000mm	GB	UT3RP	HG	UT3RPH

## GUSSET



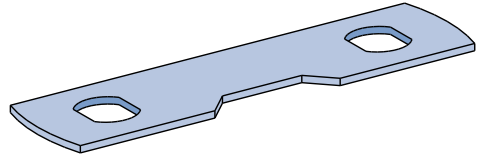
Description	Finish	Part No.	Finish	Part No.
Tray Gusset	GB	N/A	HG	UT3TGH

## HARDWARE



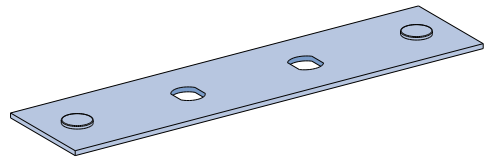
Description	Finish	Part No.	Finish	Part No.
UNI-TRAY UT3 & 5 Nut & Bolt Pack 40	ZP	UT940	HG	UT940MG

## LINK PLATE



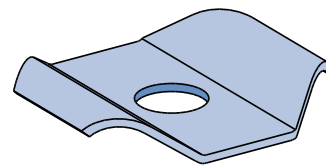
Description	Finish	Part No.	Finish	Part No.
Link Plate	GB	UT3LP	HG	UT3LPH

## SPLICE PLATE



Description	Finish	Part No.	Finish	Part No.
Splice Plate	GB	UT3SP	HG	UT3SPH

## CENTER HOLD DOWN CLAMP



Description	Finish	Part No.	Finish	Part No.
Center Down Clamp	GB	UTCHD	HG	UTCHDH

# UNISTRUT® UNI-TRAY® CABLE TRAY

## UT5 UNI-TRAY®

UT5 is available in differing finishes with 85mm side height, 3 metres in length and a variety of widths to meet all your application needs.

### FINISHES

#### Galvabond (GB)

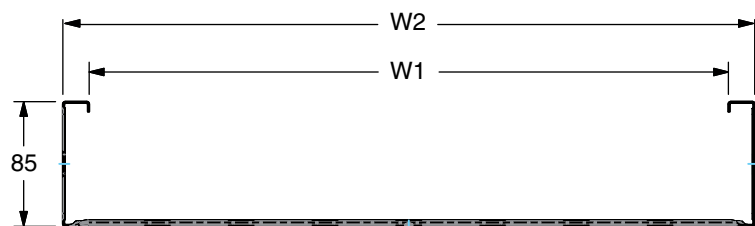
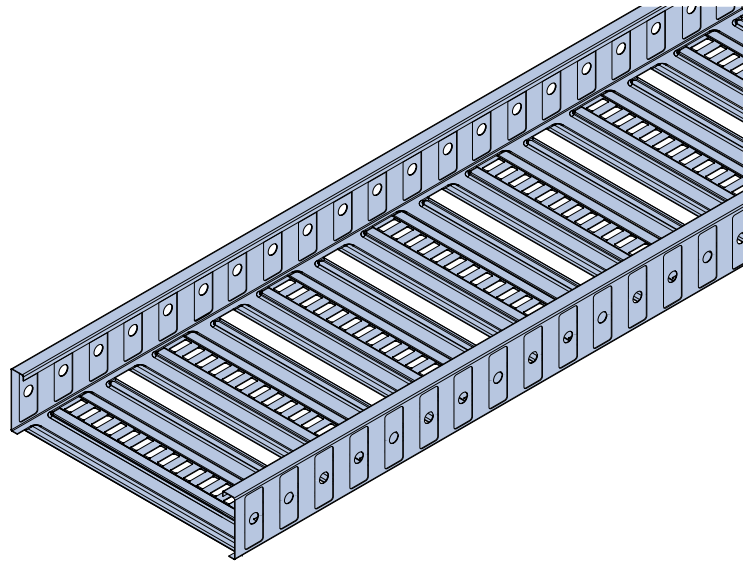
Base material is supplied ex the Steel Mill in pre-galvanised finish, in accordance with AS/NZS 1397, with a coating class of Z275. The material is slit to width, punched, and formed in the UNI-TRAY® profile.

#### Hot Dipped Galvanised (HG)

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.

#### Other - Powder Coated (PC)

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



GB Code	Cable Laying Width mm "W1"	Overall Width mm "W2"	Cable Laying Depth mm	Length mm	Overall Height mm
UT5-150	150	172	80	3000	85
UT5-300	300	322	80	3000	85
UT5-450	450	472	80	3000	85
UT5-600	600	622	80	3000	85

Basic Load 75kgs/Linea Meter on 3.0 meter span.

#### Deflections mm

	8mm	10mm	15mm	22mm
Span 1.5 meters				
Span 2.0 meters				
Span 2.4 meters				
Span 3.0 meters				

#### Allowable Load

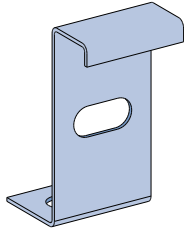
220kg/m      130kg/m      100kg/m      75kg/m

Note: The deflections have been provided as a guide based on CONTINUOUS spans.



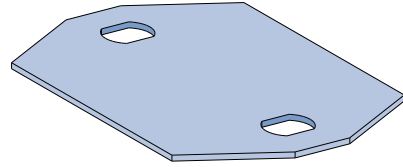
# UNISTRUT® UT5 ACCESSORIES

## HOLD DOWN BRACKET



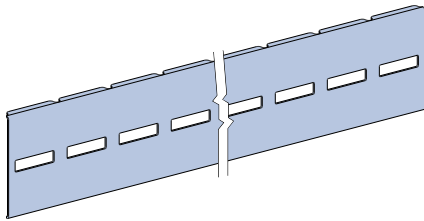
Description	Finish	Part No.	Finish	Part No.
Hold Down Bracket	GB	UT5HDB	HG	UT5HDBH

## LINK PLATE



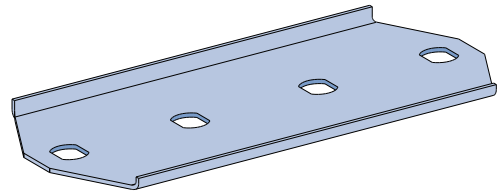
Description	Finish	Part No.	Finish	Part No.
Link Plate	GB	UT5LP	HG	UT5LPH

## RADIUS PLATE



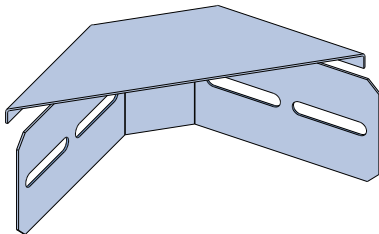
Description	Finish	Part No.	Finish	Part No.
Radius Plate 3000mm	GB	UT5RP	HG	UT5RPH

## SPLICE PLATE



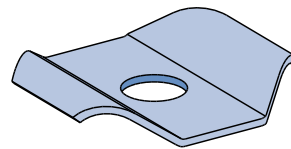
Description	Finish	Part No.	Finish	Part No.
Splice Plate	GB	UT5SP	HG	UT5SPH

## GUSSET



Description	Finish	Part No.	Finish	Part No.
Tray Gusset	GB	n/a	HG	UT5TGH

## CENTER HOLD DOWN CLAMP



Description	Finish	Part No.	Finish	Part No.
Center Down Clamp	GB	UTCHD	HG	UTCHDH

## HARDWARE

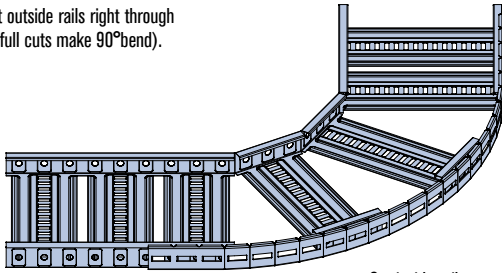


Description	Finish	Part No.	Finish	Part No.
UNITRAY UT3 & 5 Nut & Bolt Pack 40	ZP	UT940	HG	UT940MG

# UNI-TRUT® UNI-TRAY® – RAPID ON-SITE FABRICATION ASSEMBLIES

## UNI-TRAY® BEND

Cut outside rails right through  
(3 full cuts make 90° bend).

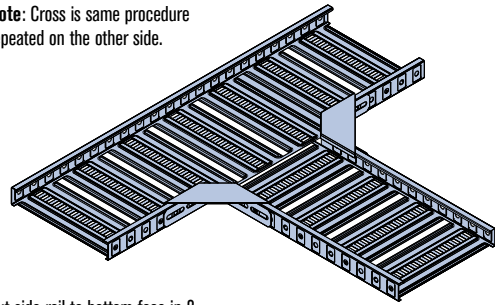


Cut inside rails at top and bottom flanges only.

Form bendside to suit and cut to length before fixing to tray with standard joining hardware.

## UNI-TRAY® TEE

**Note:** Cross is same procedure repeated on the other side.



Cut side rail to bottom face in 2 places to suit tray width (flatten side down or cut off with snips).

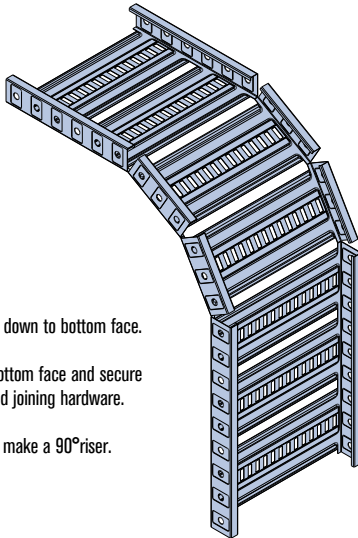
Fix 2 GUSSET brackets to both trays using joining hardware.

## UNI-TRAY® EXTERNAL RISER

Cut both side rails down to bottom face.

Bend tray along bottom face and secure with link plates and joining hardware.

3 cuts in each rail make a 90° riser.

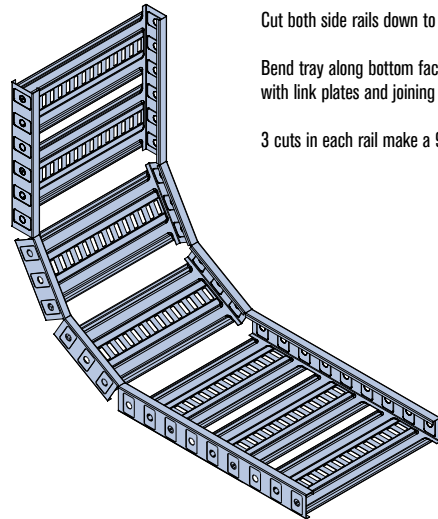


## UNI-TRAY® INTERNAL RISER

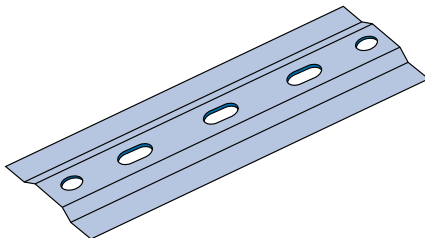
Cut both side rails down to top face.

Bend tray along bottom face and secure with link plates and joining hardware.

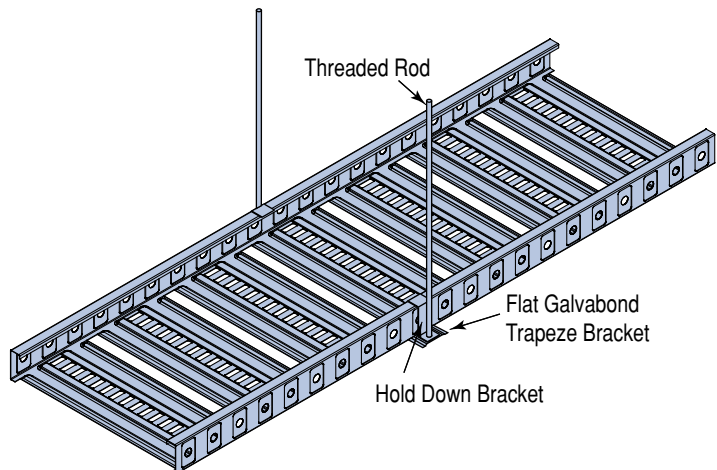
3 cuts in each rail make a 90° riser.



## TB – LIGHT DUTY TRAPEZE BRACKET



Part No.	Designation	Actual Size
TB150	Trapeze Bracket for Unitray 150mm	250mm
TB300	Trapeze Bracket for Unitray 300mm	400mm
TB450	Trapeze Bracket for Unitray 450mm	550mm
TB600	Trapeze Bracket for Unitray 600mm	700mm



# UNISTRUT®

## RITEWAY TRAY

### Features

12mm Square Edge. "Joggled" end on tray provides built in splice connection.  
Punched slots accept 12.7mm wide cable tie.

**Recommended joining hardware is:** M6 x 8 Gutter Bolt and M6 Flange Nut.

**Standard Length:** 2.4m

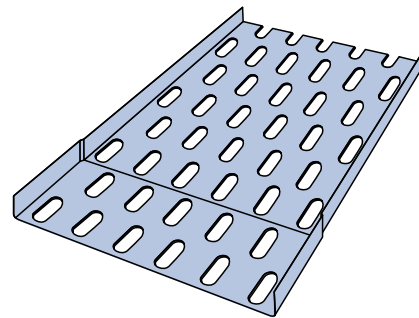
**Standard Finish:** Galvabond.

**Also available in:** Hot dipped galvanised, Aluminium, Powder coated & 316 Stainless Steel.

**Nominal Standard Widths:** 75, 100, 150, 200, 300, 450 and 600mm.

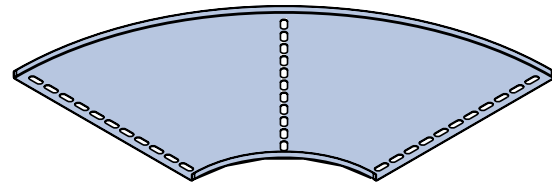
## RITEWAY TRAY

Part No. GB	Part No. HG	Description	Unit
RTGA307	RTHA307	75mm Riteway Tray	3M
RTGA310	RTHA310	100mm Riteway Tray	3M
RTGA315	RTHA315	150mm Riteway Tray	3M
RTGA320	RTHA320	200mm Riteway Tray	3M
RTGA330	RTHA330	300mm Riteway Tray	3M
RTGA345	RTHA345	450mm Riteway Tray	3M



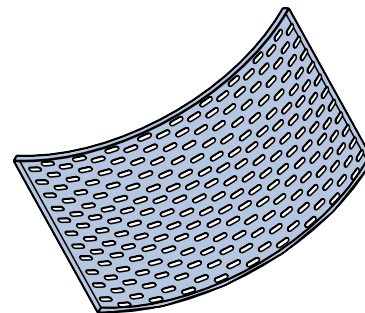
## RITEWAY BEND

Part No. GB	Part No. HG	Description	Radius (R)	Unit
ATG1B107	ATH1B107	75mm Riteway Bend	150mm	EA
ATG1B110	ATH1B110	100mm Riteway Bend	150mm	EA
ATG1B115	ATH1B115	150mm Riteway Bend	150mm	EA
ATG1B120	ATH1B120	200mm Riteway Bend	150mm	EA
ATG1B130	ATH1B130	300mm Riteway Bend	150mm	EA
ATG1B145	ATH1B145	450mm Riteway Bend	150mm	EA
ATG1B160	ATH1B160	600mm Riteway Bend	150mm	EA



## RITEWAY INTERNAL RISER

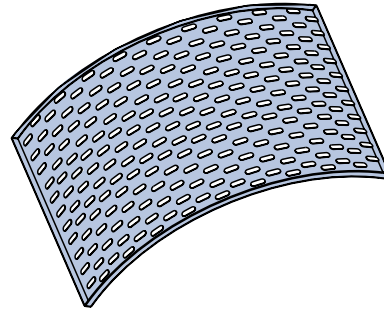
Part No. GB	Part No. HG	Description	Radius (R)	Unit
ATG1I107	ATH1I107	75mm Riteway Internal Riser	225mm	EA
ATG1I110	ATH1I110	100mm Riteway Internal Riser	225mm	EA
ATG1I115	ATH1I115	150mm Riteway Internal Riser	225mm	EA
ATG1I120	ATH1I120	200mm Riteway Internal Riser	225mm	EA
ATG1I130	ATH1I130	300mm Riteway Internal Riser	225mm	EA
ATG1I145	ATH1I145	450mm Riteway Internal Riser	225mm	EA
ATG1I160	ATH1I160	600mm Riteway Internal Riser	225mm	EA



# UNISTRUT® RITEWAY TRAYS AND ACCESSORIES

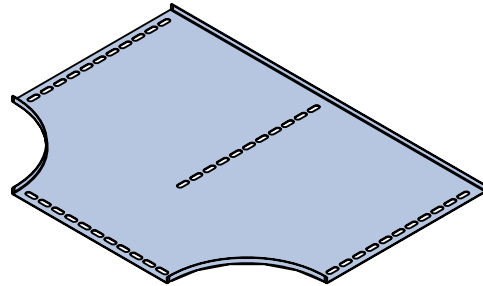
## RITEWAY EXTERNAL RISER

Part No. GB	Part No. HG	Description	Radius (R)	Unit
ATG1E207	ATH1E207	75mm Riteway External Riser	225mm	EA
ATG1E210	ATH1E210	100mm Riteway External Riser	225mm	EA
ATG1E115	ATH1E115	150mm Riteway External Riser	225mm	EA
ATG1E120	ATH1E120	200mm Riteway External Riser	225mm	EA
ATG1E130	ATH1E130	300mm Riteway External Riser	225mm	EA
ATG1E145	ATH1E145	450mm Riteway External Riser	225mm	EA
ATG1E160	ATH1E160	600mm Riteway External Riser	225mm	EA



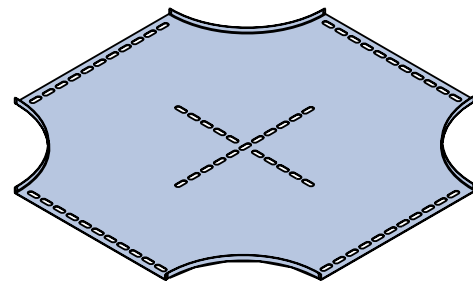
## RITEWAY TEE

Part No. GB	Part No. HG	Description	Radius (R)	Unit
ATG1T107	ATH1T107	75mm Riteway Tee	150mm	EA
ATG1T110	ATH1T110	100mm Riteway Tee	150mm	EA
ATG1T115	ATH1T115	150mm Riteway Tee	150mm	EA
ATG1T120	ATH1T120	200mm Riteway Tee	150mm	EA
ATG1T130	ATH1T130	300mm Riteway Tee	150mm	EA
ATG1T145	ATH1T145	450mm Riteway Tee	150mm	EA
ATG1T160	ATH1T160	600mm Riteway Tee	150mm	EA



## RITEWAY CROSS

Part No. GB	Part No. HG	Description	Radius (R)	Unit
ATG1X107	ATH1X107	75mm Riteway Cross	150mm	EA
ATG1X110	ATH1X110	100mm Riteway Cross	150mm	EA
ATG1X115	ATH1X115	150mm Riteway Cross	150mm	EA
ATG1X120	ATH1X120	200mm Riteway Cross	150mm	EA
ATG1X130	ATH1X130	300mm Riteway Cross	150mm	EA
ATG1X145	ATH1X145	450mm Riteway Cross	150mm	EA
ATG1X160	ATH1X160	600mm Riteway Cross	150mm	EA



AHZS106008 - M6 x 8 Gutter Bolt & M6 Flange Nut (50/pack)

# 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 buildup. In addition this unique open design prevents the buildup of dust, contaminants and bacterial proliferation.

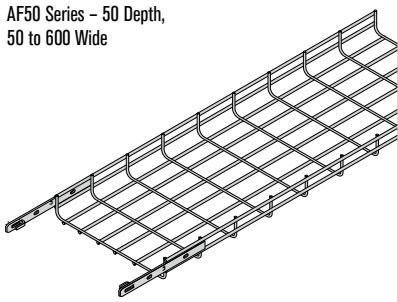
ACROFIL® is produced in standard 3m lengths and is supplied in 2 standard depths: 50 and 100mm.

ACROFIL® is offered in nine different widths:

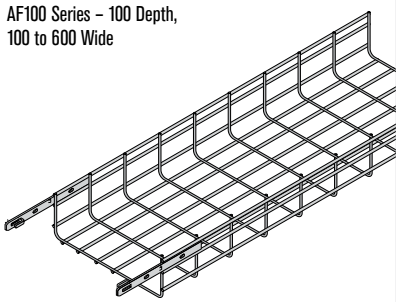
50 mm, 100mm, 150mm, 200mm, 300mm, 400mm, 450mm, 500mm, 600mm.

Special sizes are available to meet your unique requirements.

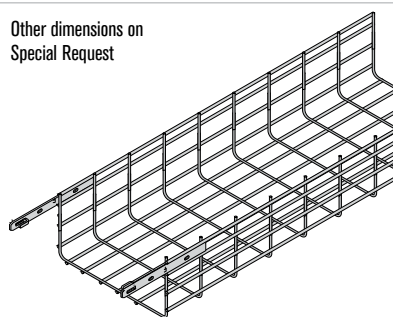
AF50 Series – 50 Depth,  
50 to 600 Wide



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.

### HOT DIP 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 catalog 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

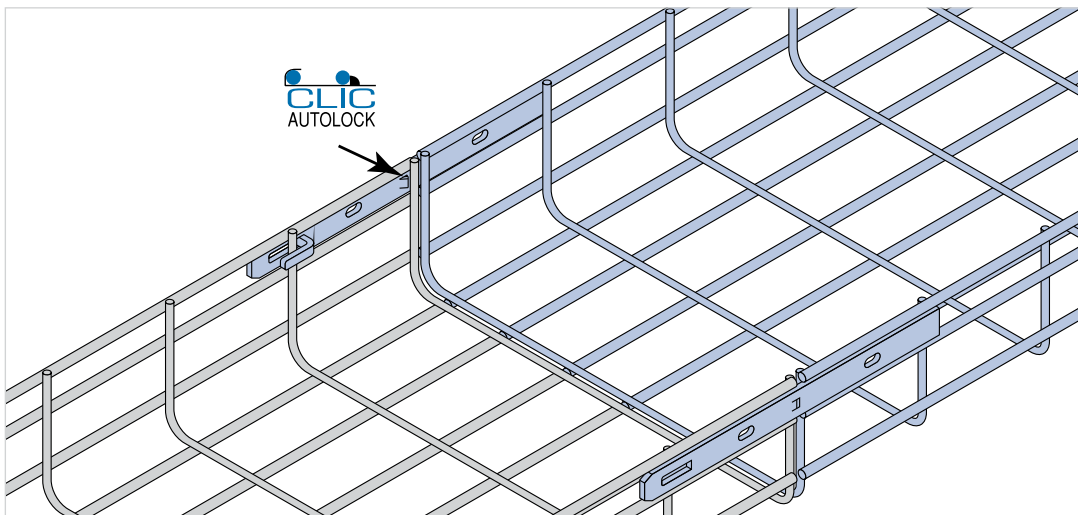
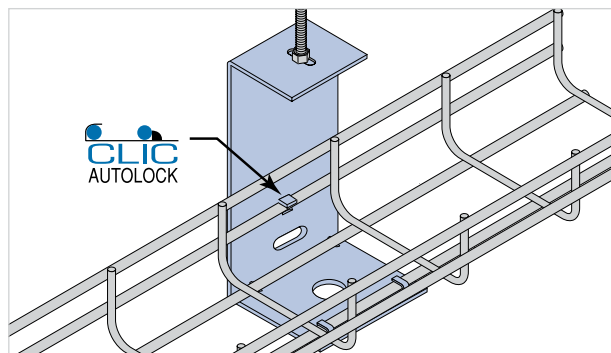
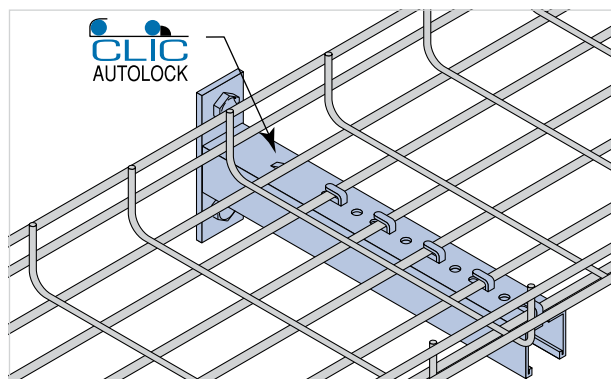
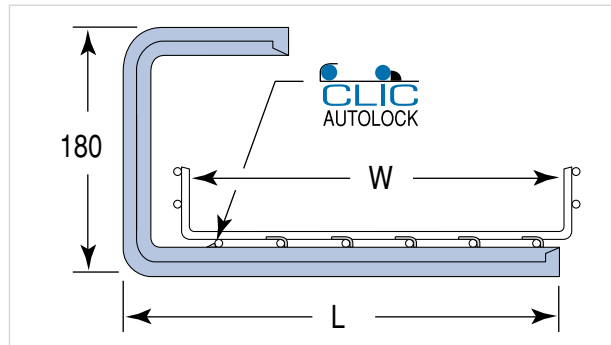
## ACROFIL® SYSTEM

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® Australia's commitment to being the one stop supplier for all your cable management solutions.

Visit [www.unistrut.com.au](http://www.unistrut.com.au)



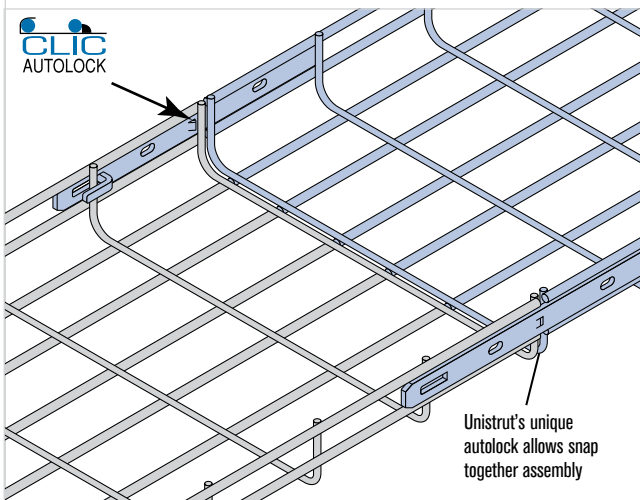


# UNISTRUT® ACROFIL® - WIRE MESH CABLE TRAY

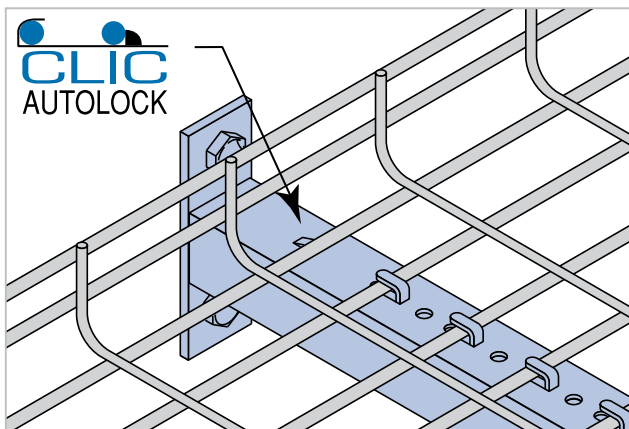
## ACROFIL® SYSTEM

### SELF-SPLICING STRAIGHT LENGTHS

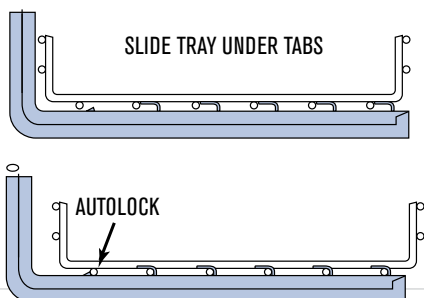
ACROFIL®'s exclusive autolock splicing system makes connecting ACROFIL® fast and simple. The Autolock, or self splicing bars which come pre-installed on ACROFIL® systems, eliminates the need for a typical nut and bolt type connection. For proper grounding of ACROFIL® please refer to page 129.



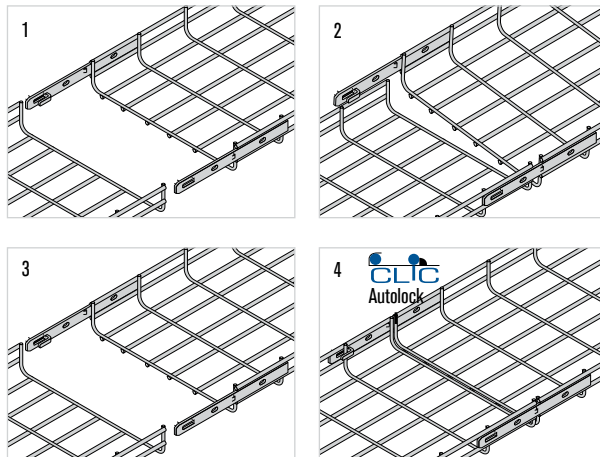
### ACCESSORY ASSEMBLY



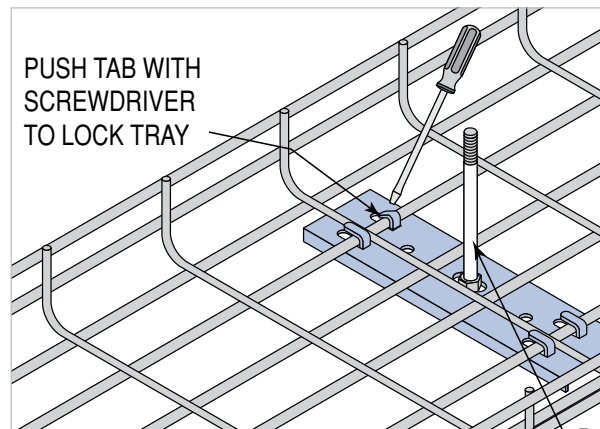
Many of the ACROFIL® wire basket accessories feature the unique autolock. Just slide the tray under the tabs and then push down to engage the autolock. No tools, bending, or attachments are required for a secure connection.



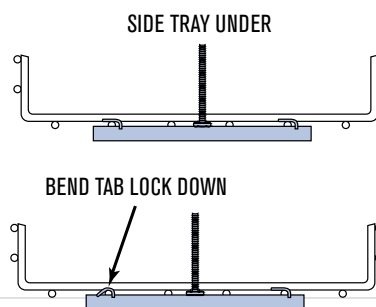
### ACROFIL® ASSEMBLY - AF50, AF100, & AF150



- 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.

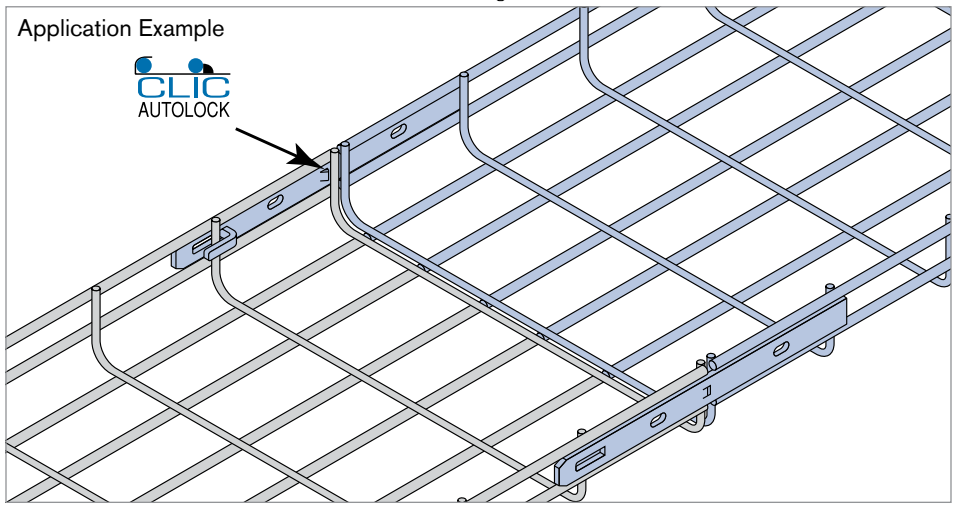
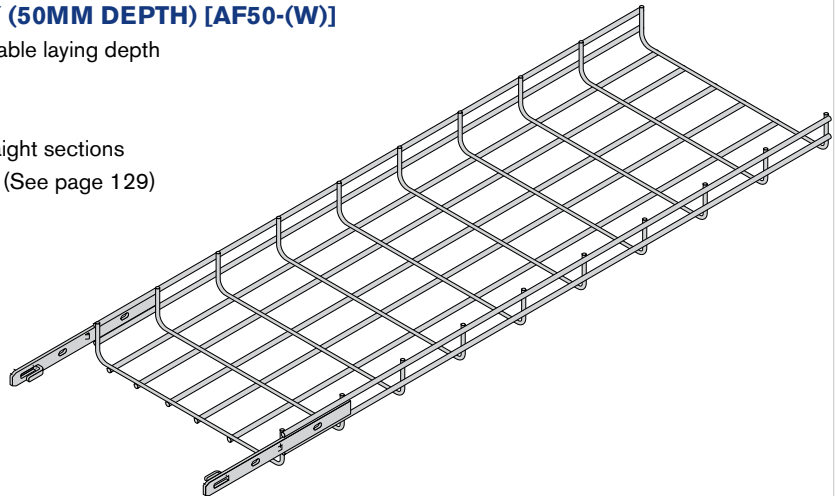











# UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

## 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
- For continuous grounding use AF-GCLIP (See page 129)



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	24	17	9
 AF50-100	100	50	2.3	30	17	13
 AF50-150	150	50	3.8	75	38	27
 AF50-200	200	50	3.9	87	38	28
 AF50-300	300	50	4.3	94	46	30
 AF50-400	400	50	4.8	111	67	42
 AF50-450	450	50	7.2	111	67	42
 AF50-500	500	50	8.4	121	76	42
 AF50-600	600	50	9.6	133	92	42

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

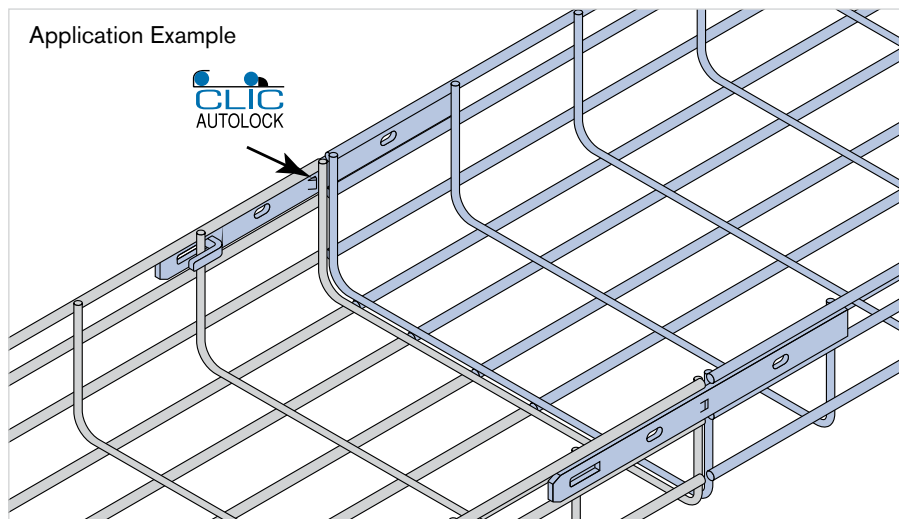
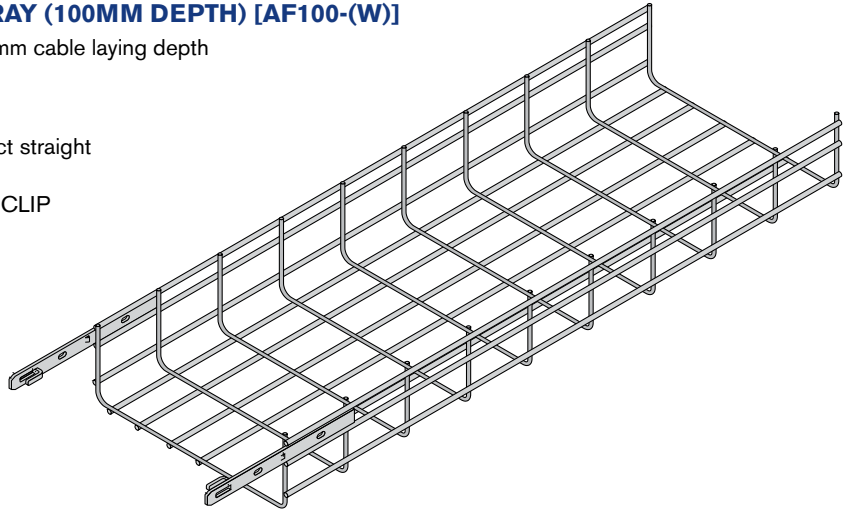




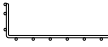
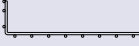

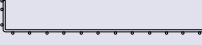
# UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

## 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
- For continuous grounding use AF-GCLIP (See page 129)



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	3.9	29	21	16
 AF100-200	200	100	4.9	50	33	23
 AF100-300	300	100	7.2	73	49	33
 AF100-400	400	100	8.4	87	51	34
 AF100-500	500	100	9.6	104	53	37
 AF100-600	600	100	13.3	145	90	51

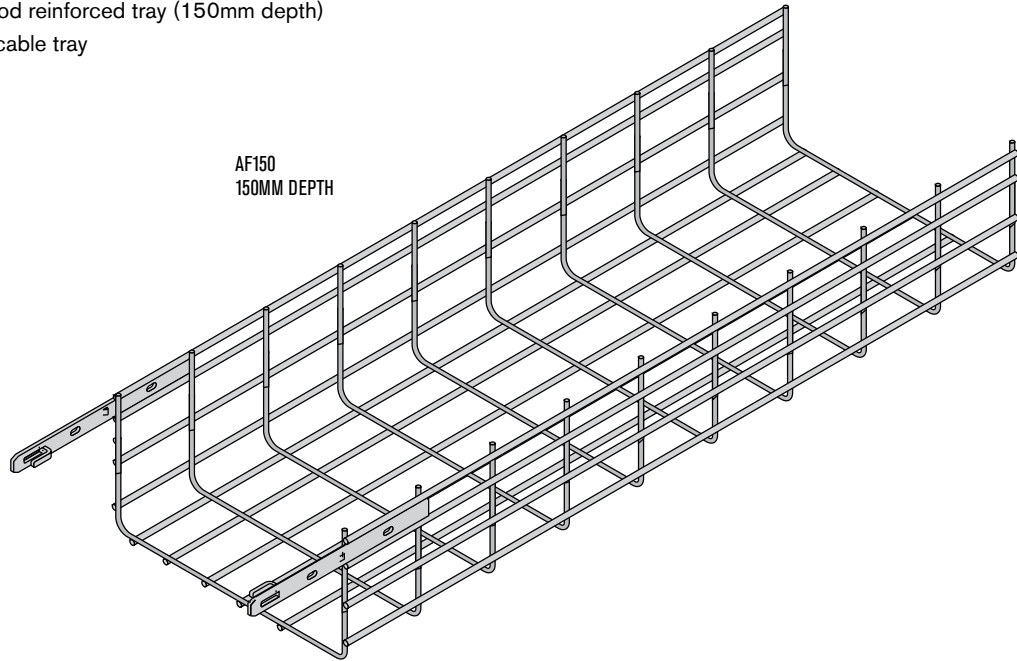
Load Values are determined by IEC61537 testing. Copies of load tests available upon request.  
Safety Factor 1.7

# UNISTRUT® ACROFIL® – WIRE MESH CABLE TRAY

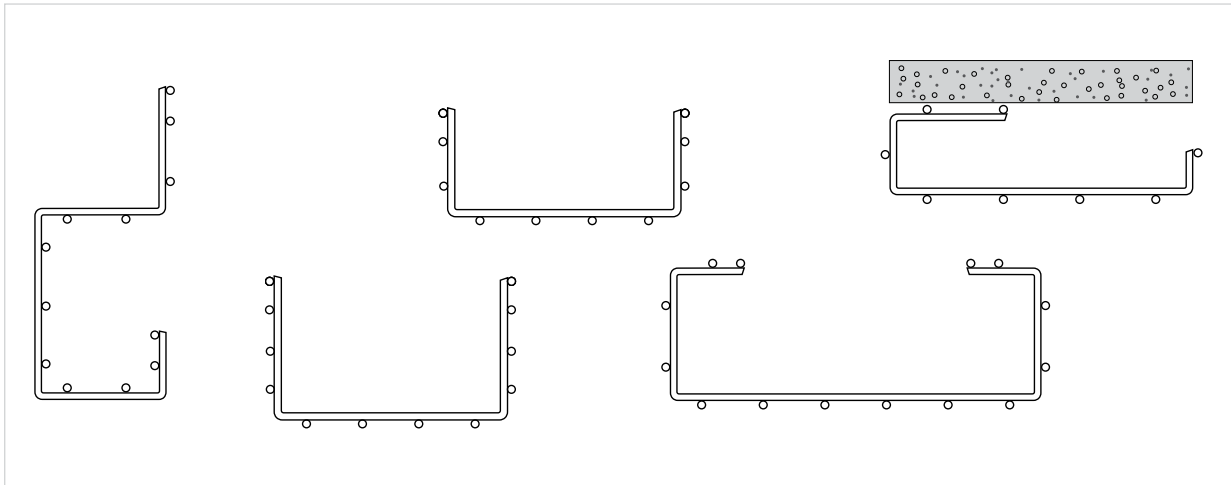
## ACROFIL® SYSTEM

### OTHER PRODUCTS AVAILABLE AT SPECIAL REQUEST

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



### CUSTOM MADE TRAY EXAMPLES



# UNISTRUT® ACROFIL® – BAR CONNECTORS

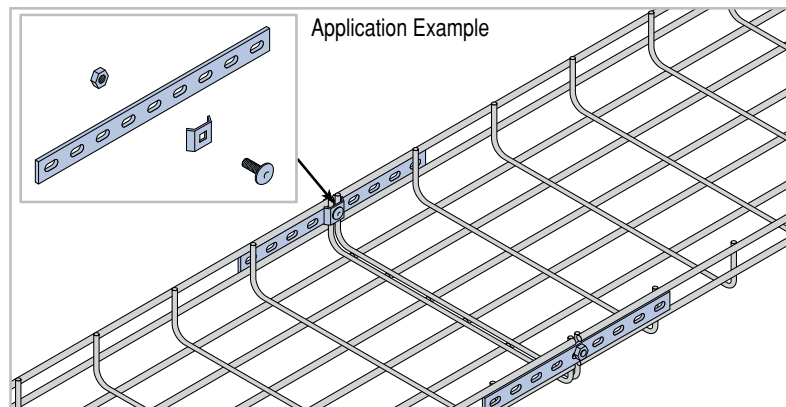
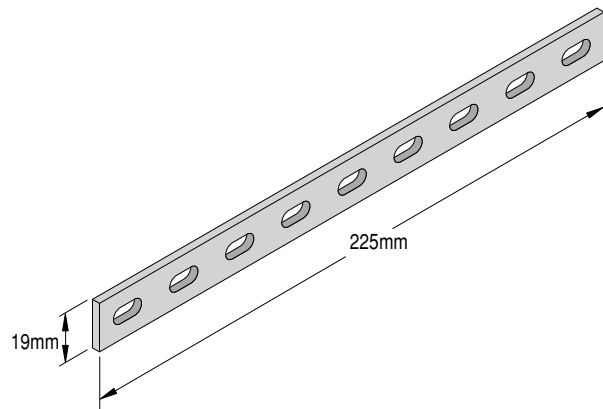
## AF-SPLICE

**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

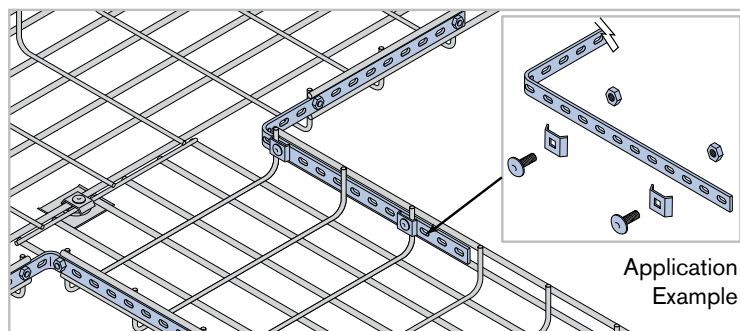
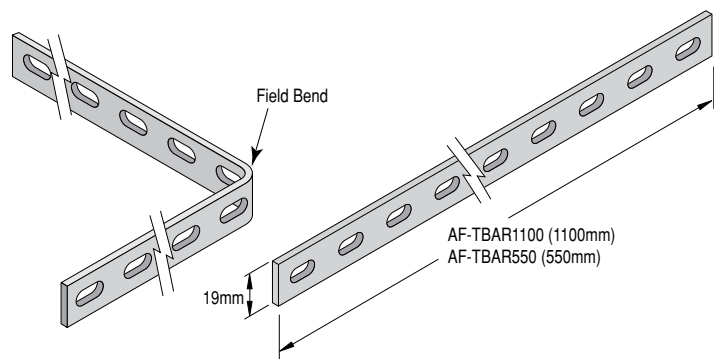
### AF-TBAR550

**Weight:** 0.32kg/each

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

**NOTES:**

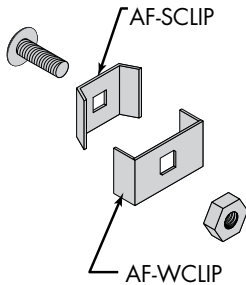
1. Always place nut on outside of tray
2. For use with AF50, AF100 & AF150 tray
3. Used for tees that require a heavier support
4. These bars are normally cut to appropriate length



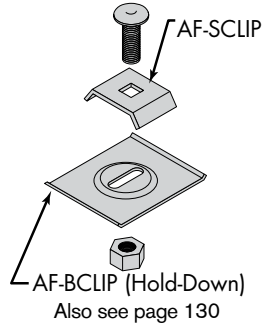
# UNISTRUT® ACROFIL® – CONNECTOR HARDWARE

## CONNECTOR HARDWARE OVERVIEW

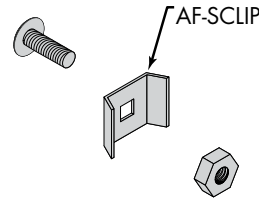
### AF-KITCH1



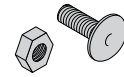
### AF-KITCH2



### AF-KITCH3



### AF-EG-CBN



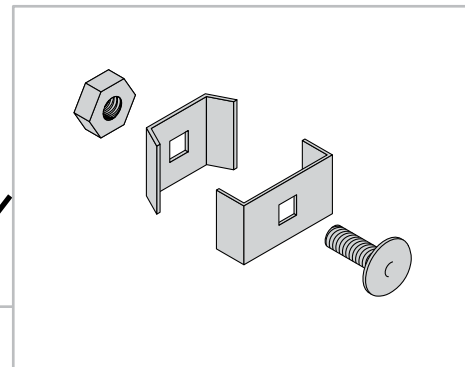
Part Kit	Weight (kg)	NO./ PKG
AF-KITCH1	0.32	10
AF-KITCH2	0.53	10
AF-KITCH3	0.20	10
AF-EG-CBN	0.09	10

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

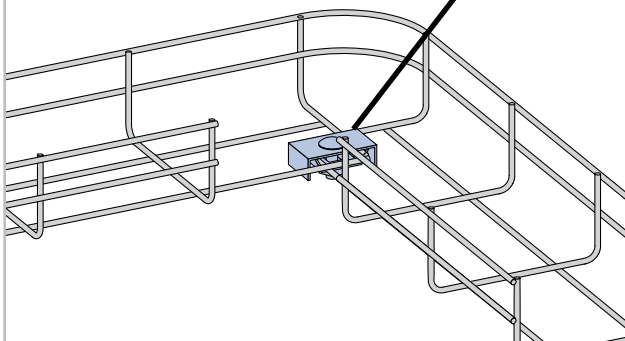
## CONNECTOR KIT [AF-KITCH1]

- 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



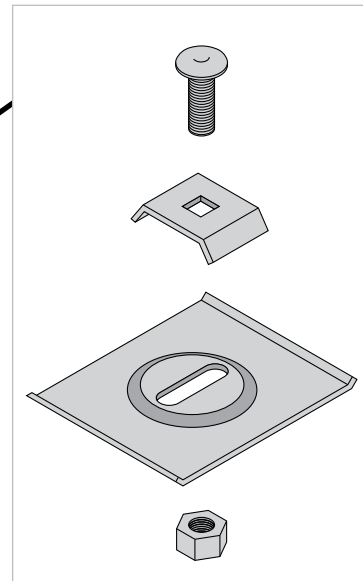
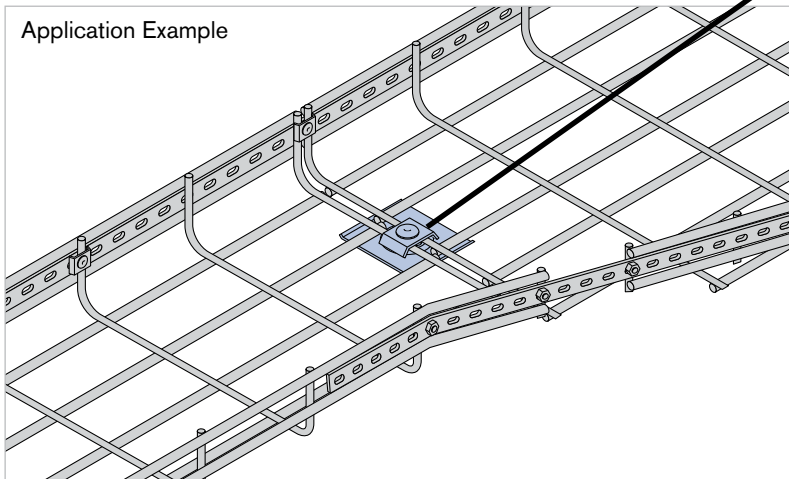
# UNISTRUT® ACROFIL® – CONNECTOR HARDWARE KITS

## 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

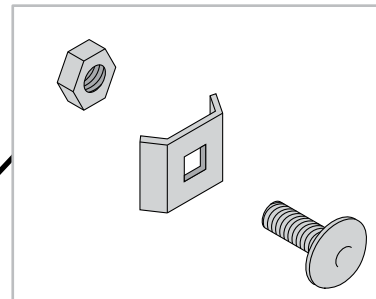
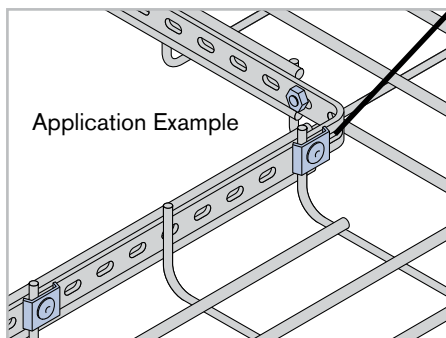


## CONNECTOR KIT [AF-KITCH3]

- 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

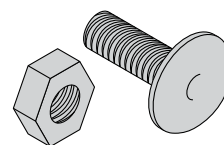
Application Example



## 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

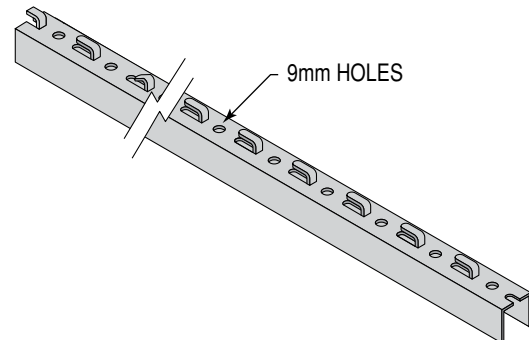


# UNISTRUT® ACROFIL® – SUPPORT BRACKETS

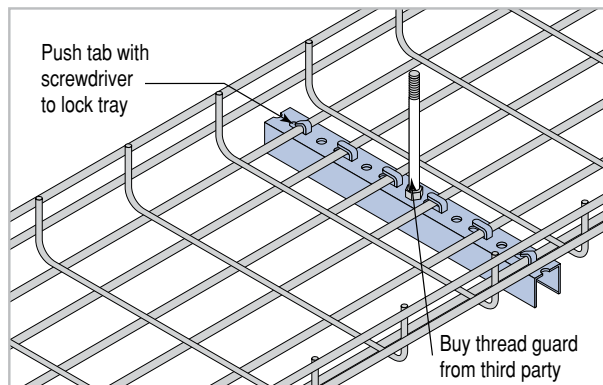
## U SUPPORT BRACKET [AF-USB-3M]

**Weight:** 3.1kg/each

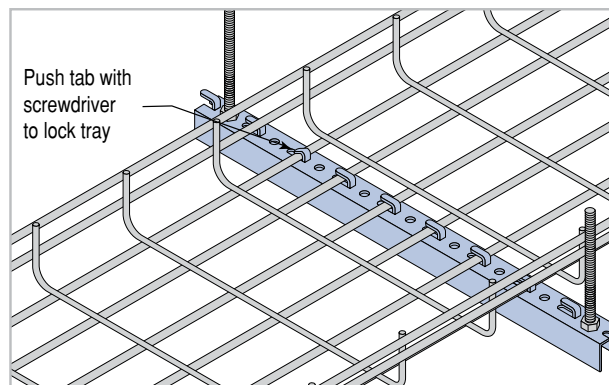
- U support bracket 24mm x 24mm channel
- Standard finish is zinc plated
- Support is 3m long, customer cuts to size as needed
- Cut lengths 150mm wider than tray width for trapeze  
Cut lengths 25mm shorter than tray width for single rod support
- Unique grip system requires only a push of a screwdriver to fasten the tray to the supports
- 9mm holes for rod support



### SINGLE ROD



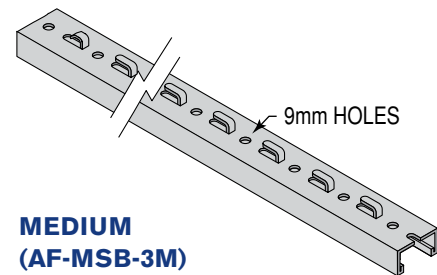
### TRAPEZE



## SUPPORT BRACKET MEDIUM (AF-MSB-3M)

**Weight:** 5.4kg/each

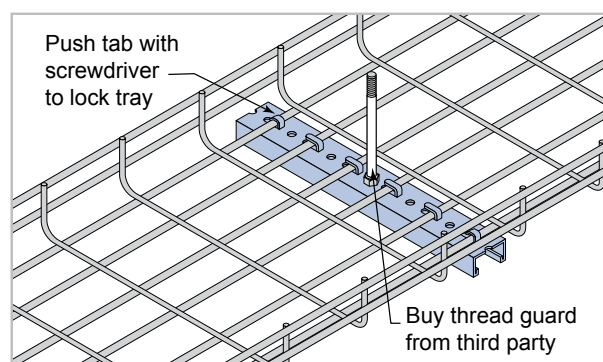
- Medium support bracket is 41mm x 21mm strut
- Standard finish is zinc plated
- Support is 3m long, customer cuts to size as needed
- Cut lengths 150mm wider than tray width for trapeze  
Cut lengths 25mm shorter than tray width for single rod support
- Unique grip system requires only a push of a screwdriver to fasten the tray to the supports
- 9mm holes for rod support



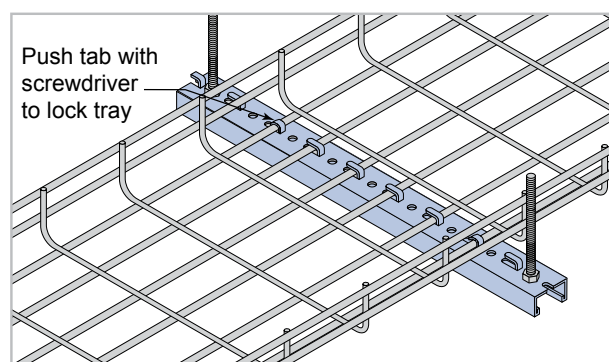
### MEDIUM (AF-MSB-3M)

**Weight:** 5.4 kg/each

### SINGLE ROD



### TRAPEZE

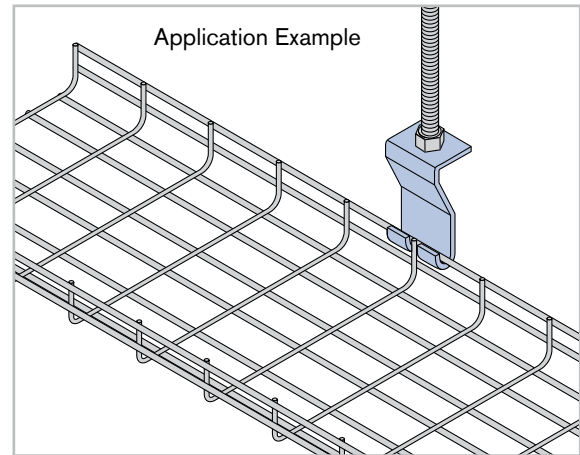
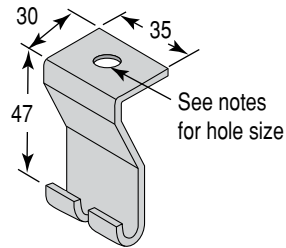


# UNISTRUT® ACROFIL® – DROP ROD CLIPS

## DROP ROD CLIP (AF-SIDECLIP)

**Weight:** 0.06kg/each

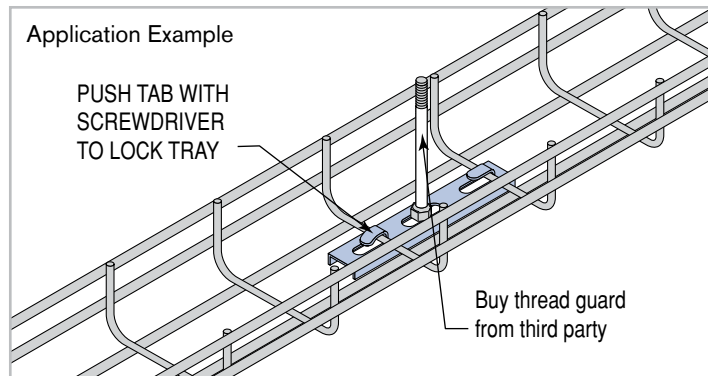
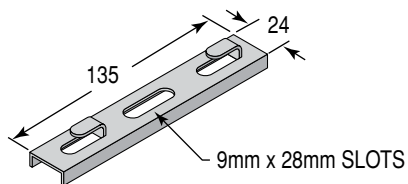
- Standard finish zinc plated
- 2mm Bracket thickness
- For all widths of tray
- Use AF-SIDECLIPM8 for 8mm Rod
- Use AF-SIDECLIPM10 for 10mm Rod



## DROP ROD CLIP (AF-RODCLIP1)

**Weight:** 0.05kg/each

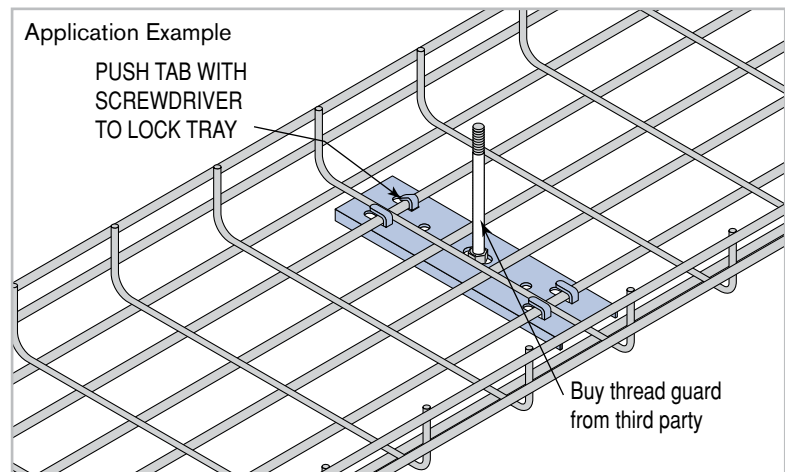
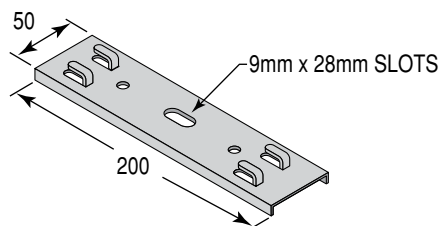
- Standard finish zinc plated
- 2mm Bracket thickness
- For all 100mm wide & 150mm wide tray



## DROP ROD CLIP [AF-RODCLIP2]

**Weight:** 0.18kg/each

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

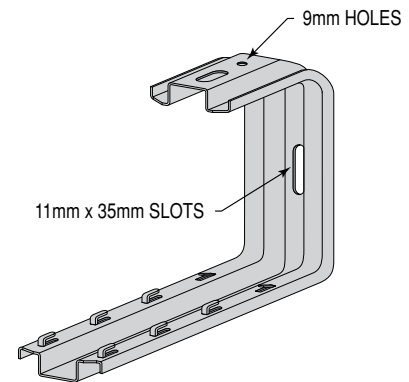
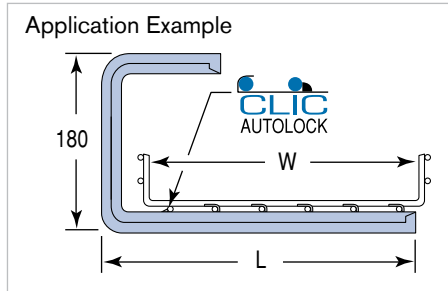




# UNISTRUT® ACROFIL® – WALL & CEILING MOUNTS

## CEILING CLIP [AF-CCA-(W)]

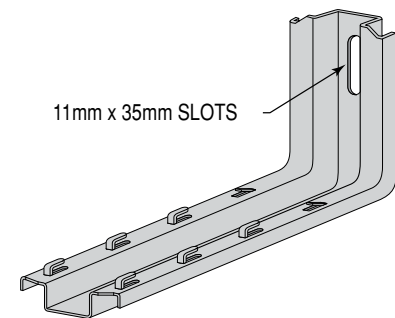
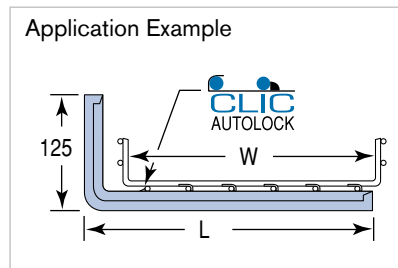
- For attaching tray to ceiling
- Standard finish Galvabond Z275
- Easy mounting of the cable tray using grips and autolock



Part No.	Tray Size (W) (mm)	Length (L) (mm)	Weight (kg)	Load (kN)
AF-CCA-100	100	145	0.59	1.08
AF-CCA-150	150	195	0.67	0.78
AF-CCA-200	200	245	0.75	0.59
AF-CCA-300	300	345	0.90	0.39
AF-CCA-400	400	445	1.05	0.29

## WALL CLIP [AF-CPA-(W)]

- For attaching tray to wall
- Standard finish Galvabond Z275
- Easy mounting of the cable tray using grips and autolock

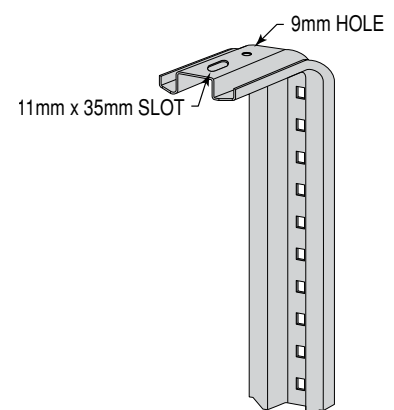
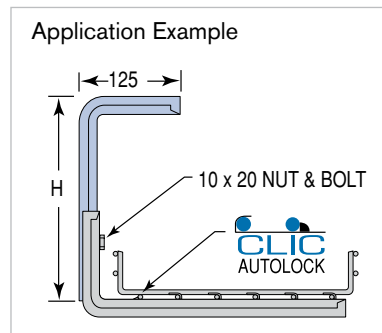


Part No.	Tray Size (W) (mm)	Length (L) (mm)	Weight (kg)	Load (kN)
AF-CPA-100	100	150	0.37	1.28
AF-CPA-150	150	200	0.44	1.28
AF-CPA-200	200	250	0.52	0.88
AF-CPA-300	300	350	0.67	0.59
AF-CPA-400	400	450	0.82	0.49

## PENDANT [AF-PPA-(H)]

- Standard finish is Galvabond Z275
- For attaching tray to ceiling. Used with wall clip AF-CPA Series

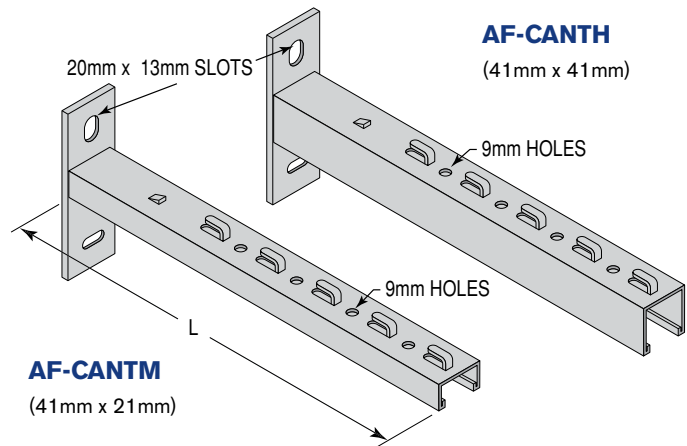
Part No.	Height (H) (mm)	Weight (kg)
AF-PPA-150	150	0.32
AF-PPA-250	250	0.50
AF-PPA-350	350	0.59
AF-PPA-450	450	0.77
AF-PPA-550	550	0.91
AF-PPA-650	650	1.04



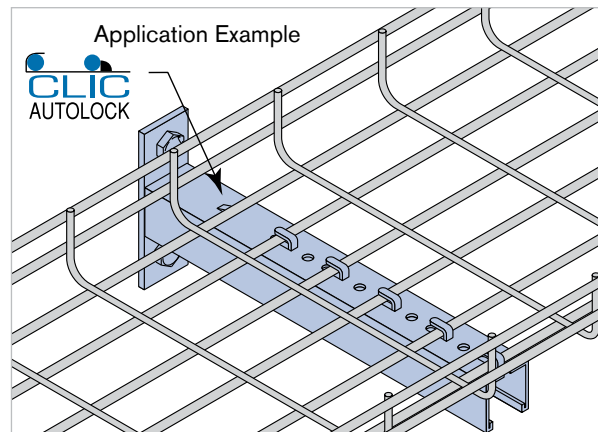


CANTILEVER MEDIUM [AF-CANTM-(W)] & HEAVY [AF-CANTH-(W)]

- Standard finish is Hot Dipped 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



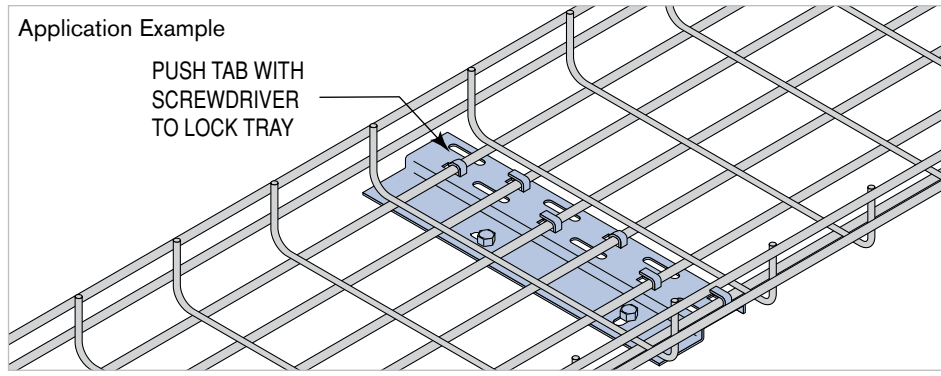
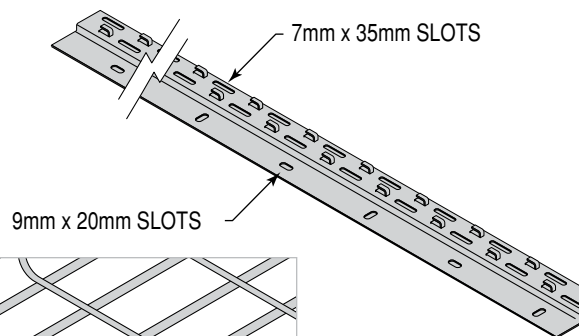
Part No.	Channel Size (mm)	Tray Width (W) (mm)	Length (L) (mm)	Weight (kg)	Load (kN)
AF-CANTM-150	41 x 21	150	180	0.45	2.45
AF-CANTM-200	41 x 21	200	230	0.52	1.77
AF-CANTM-300	41 x 21	300	330	0.66	1.57
AF-CANTH-200	41 x 41	200	230	0.72	4.41
AF-CANTH-300	41 x 41	300	330	0.95	3.34
AF-CANTH-400	41 x 41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

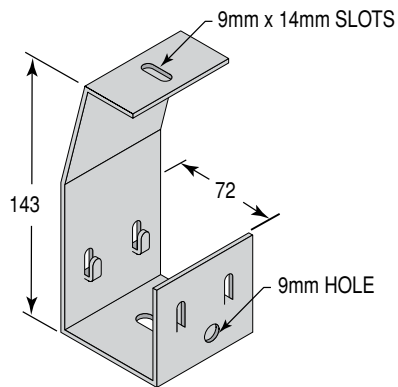
- ZED floor or wall mounted support is 13mm x 89mm
- Standard finish Galvabond Z275
- Support is 3m long, customer cuts to size as needed
- Unique grip system requires only a push of a screwdriver to fasten the tray to the supports



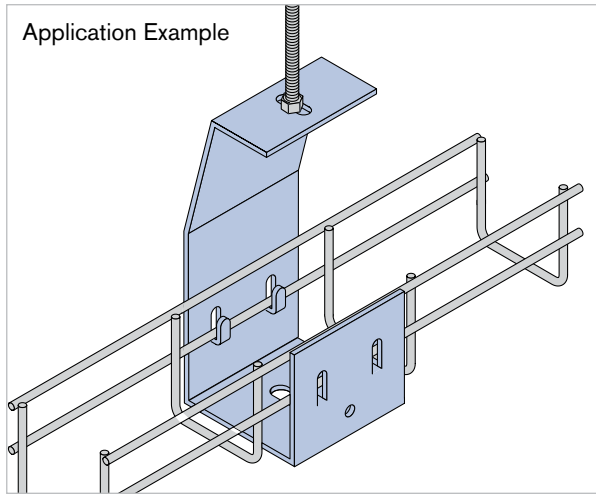
## HANGER [AF-HGR-50]

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

**NOTE:** For use with AF50-50 only



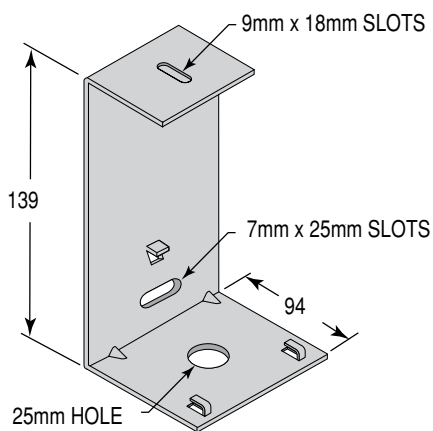
Application Example



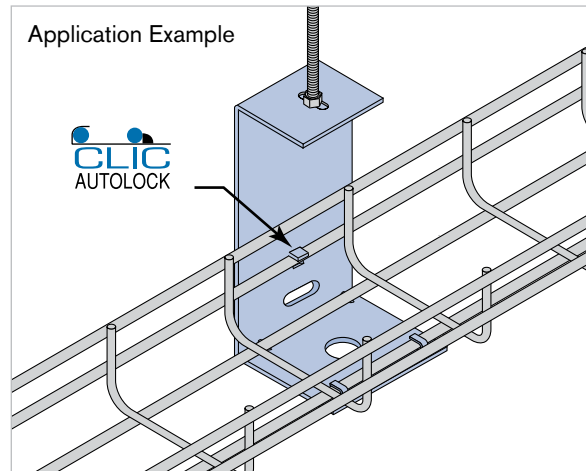
## HANGER [AF-HGR-100]

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

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



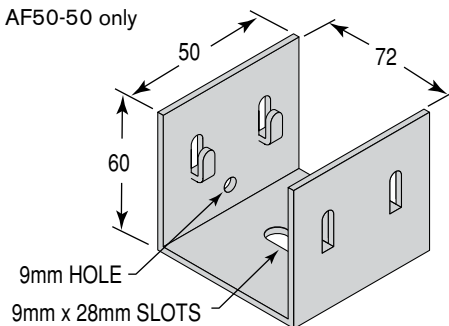
Application Example



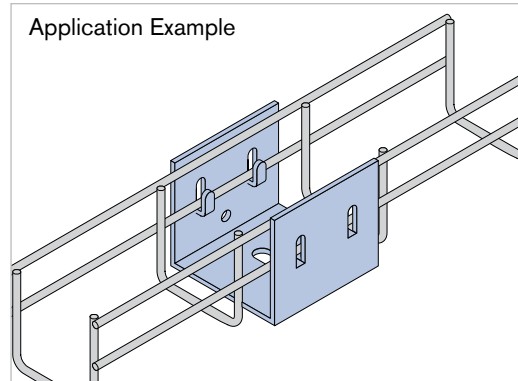
## WALL BRACKET [AF-WB-50]

- Standard finish is Galvabond Z275

**NOTE:** For use with AF50-50 only



Application Example



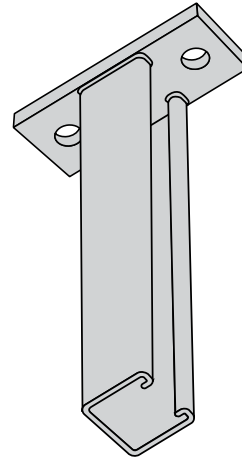
UNISTRUT®

## ACROFIL® – HANGING BRACKETS AND PENDANTS

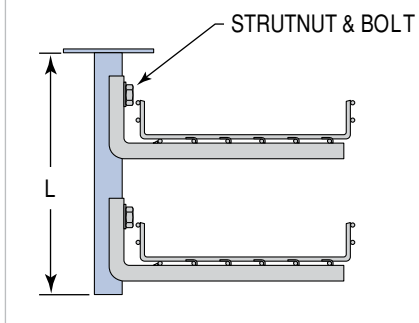
## SINGLE CHANNEL PENDANT [P2663-(L)]

- Standard finish is Hot Dipped 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
P2663-550	550	1.36	1.86
P2663-700	700	1.06	2.29



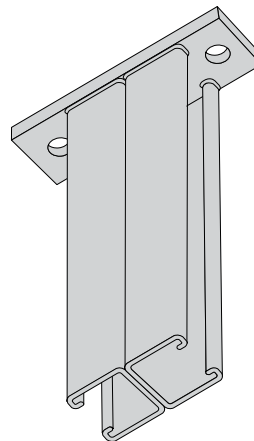
## Application Example



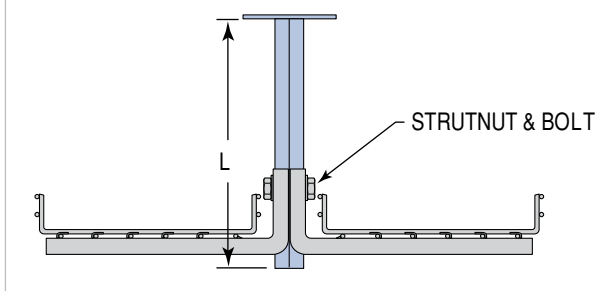
## BACK-TO-BACK CHANNEL PENDANT [P2542 THRU P2546]

- Standard finish is Hot Dipped 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



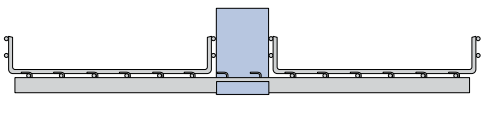
# UNISTRUT® ACROFIL® – HANGING BRACKETS

## HANGING BRACKET [AF-CB-MSB]

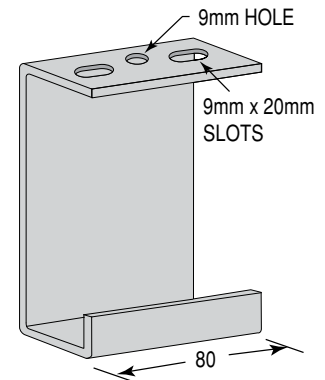
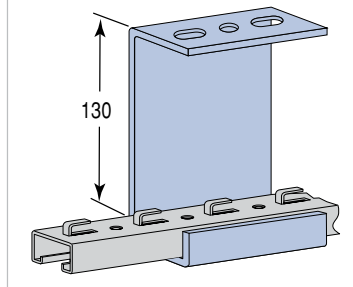
**Weight:** 0.66kg/each

- Standard finish is Galvabond Z275
- For Use with:  
AF-MSB-3M Medium Support Bracket  
Strut see page 113.

Application Example

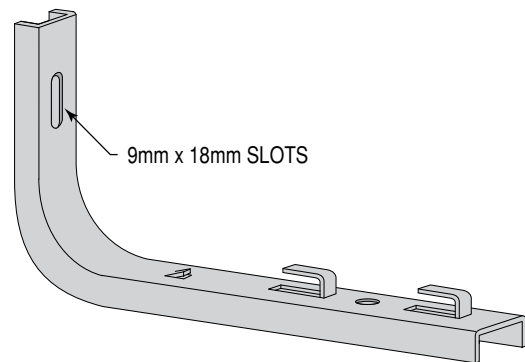


Application Example

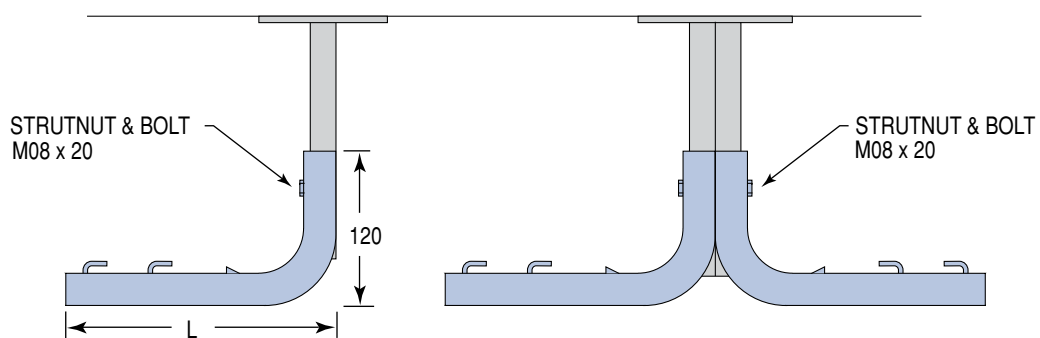


## BRACKET [AF-CMA-(W)]

- Standard finish is Galvabond Z275
- Mounted on cantilever arms or channels
- Easy mounting of the bracket using grips and autolock
- Designed for use with new/existing 41mm strut framing



Application Example



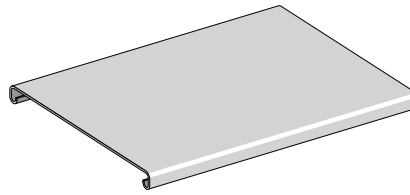
Part No.	Tray Width (W) (mm)	Length (L) (mm)	Wt (kg)	Load (kN)
AF-CMA-100	100	152	0.38	1.27
AF-CMA-150	150	202	0.47	1.03
AF-CMA-200	200	252	0.56	0.78
AF-CMA-300	300	352	0.73	0.59
AF-CMA-400	400	452	0.88	0.39

# UNISTRUT® ACROFIL® – ACCESSORIES

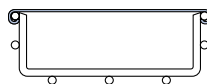
## COVER [AF-CVR-(W)]

- Standard finish is Pregalvanised.
- Length is 3m

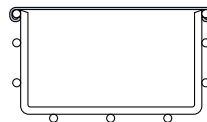
Part	Weight (kg)
AF-CVR-50	2.4
AF-CVR-100	3.6
AF-CVR-150	4.8
AF-CVR-200	6.0
AF-CVR-300	8.4
AF-CVR-400	16.2
AF-CVR-450	18.0
AF-CVR-500	19.8
AF-CVR-600	23.4



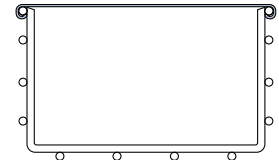
Application Example



AF50



AF100

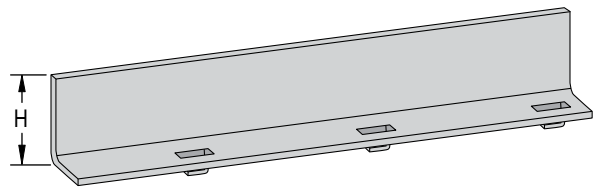


AF150

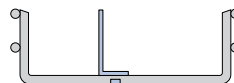
## TRAY DIVIDERS [AF-DIV50] & [AF-DIV100]

- 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

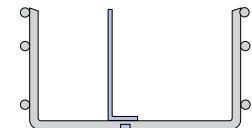
Part	Height (H) (mm)	Weight (kg)
AF-DIV-50	50	2.4
AF-DIV-100	100	3.6



Application Example



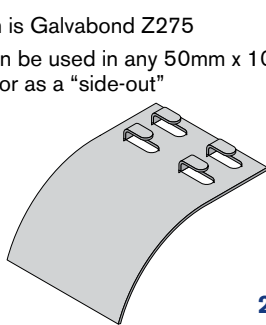
AF-DIV50



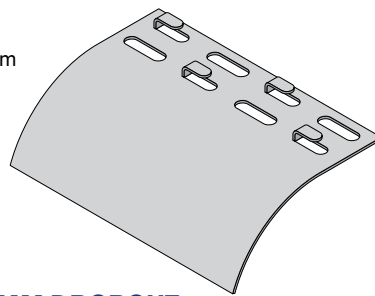
AF-DIV100

## DROP OUT [AF-(W)DO]

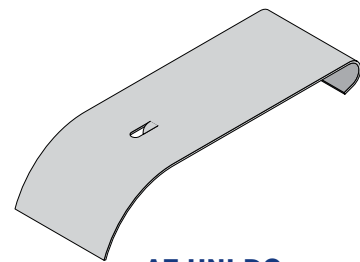
- Standard finish is Galvabond Z275
- AF-UNI-DO can be used in any 50mm x 100mm mesh opening or as a "side-out"



**100MM DROPOUT**

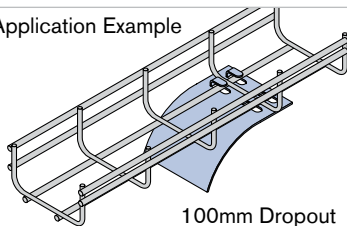


**200MM DROPOUT**

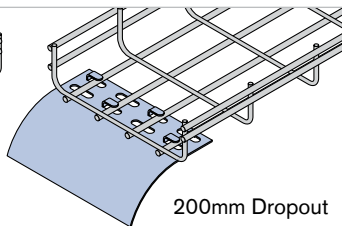


**AF-UNI-DO**  
(50mm Universal Dropout)

Application Example

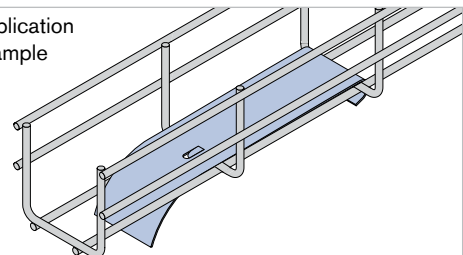


100mm Dropout



200mm Dropout

Application Example

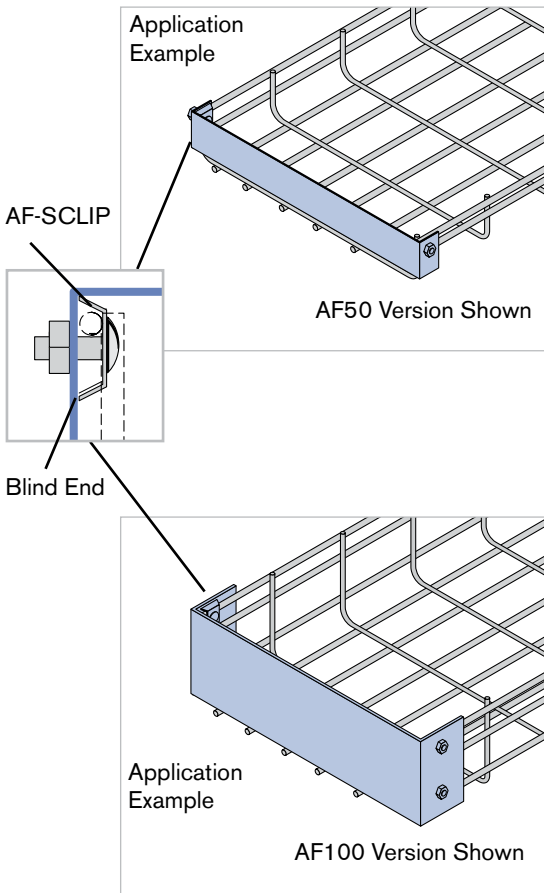


## BLIND END [AF(H)-BE(W)]

- Standard finish is Galvabond Z275
- Standard use per blind end is:  
(2 pc) AF-KITCH3 (sold separately)

### NOTES:

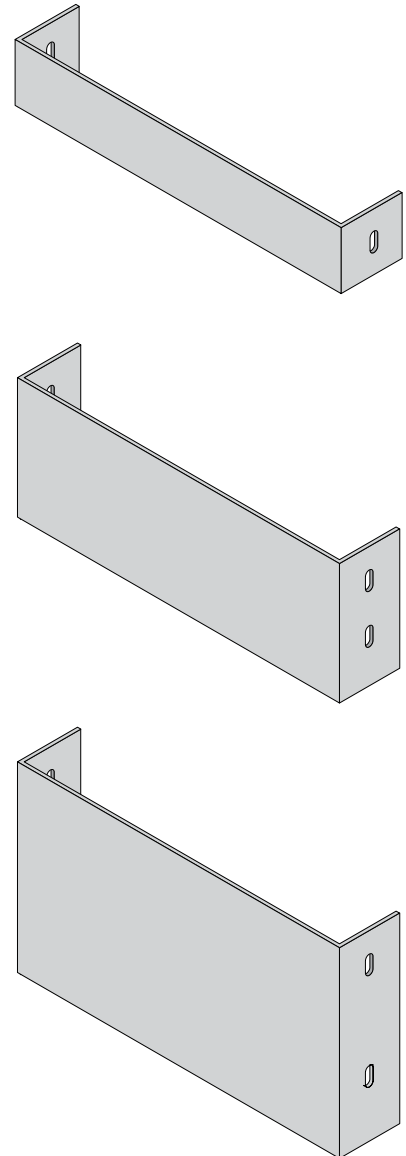
1. Always place nut on outside of tray



Part	Weight (kg)
AF50-BE100	0.08
AF50-BE150	0.10
AF50-BE200	0.13
AF50-BE300	0.18
AF50-BE400	0.23
AF50-BE450	0.26
AF50-BE500	0.29
AF50-BE600	0.32

Part	Weight (kg)
AF100-BE100	0.24
AF100-BE200	0.29
AF100-BE300	0.34
AF100-BE400	0.44
AF100-BE450	0.49
AF100-BE500	0.54
AF100-BE600	0.65

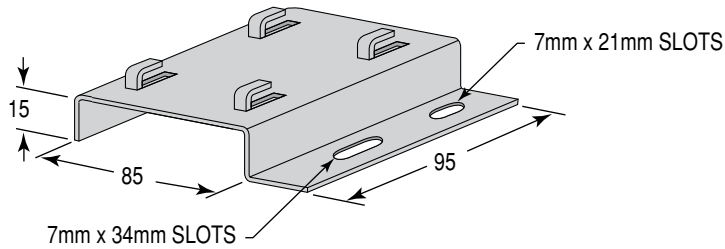
Part	Weight (kg)
AF150-BE300	0.51
AF150-BE400	0.64
AF150-BE600	0.95



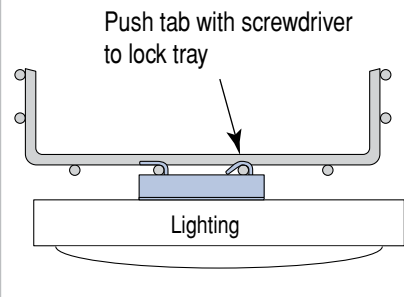
# UNISTRUT® ACROFIL® – ACCESSORIES

## LIGHTING BRACKET [AF-LIGHTB]

- Standard finish is Galvabond Z275

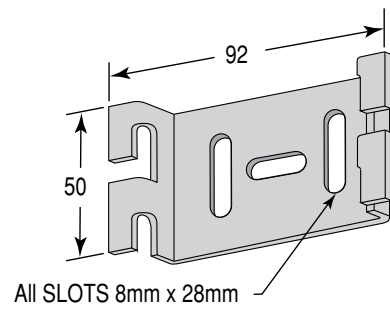
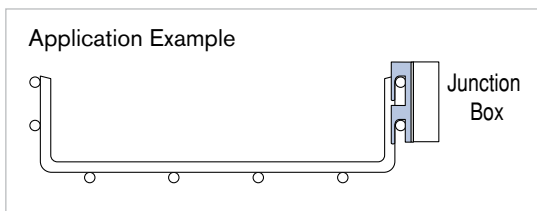


### Application Example



## ELECTRICAL BOX BRACKET [AF-JBOX]

- Standard finish is Galvabond Z275





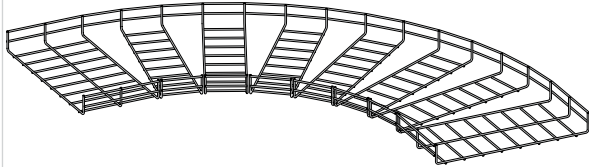
# UNISTRUT® ACROFIL® – FITTINGS OVERVIEW

## FITTINGS OVERVIEW

Fittings are typically fabricated on the job.

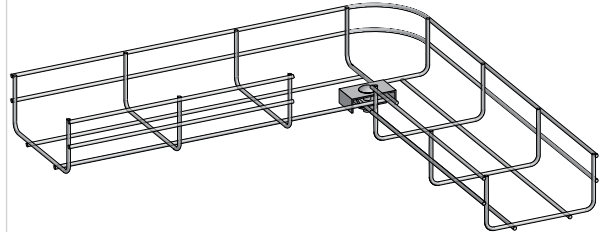
To determine the fitting hardware required to create a set of fittings, see the following pages

### 90° LONG RADIUS BEND



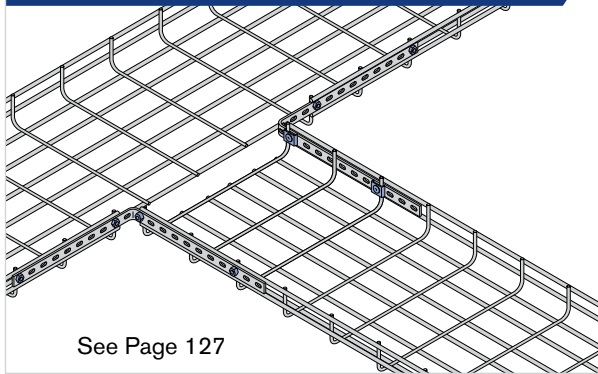
See Page 124

### 90° SHORT RADIUS BEND



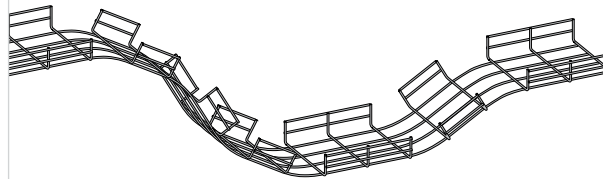
See Pages 125 - 126

### TEE AND CROSS



See Page 127

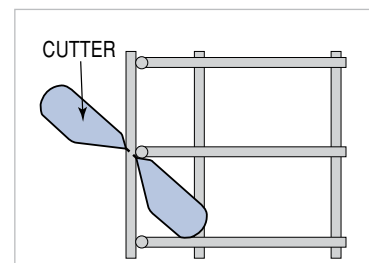
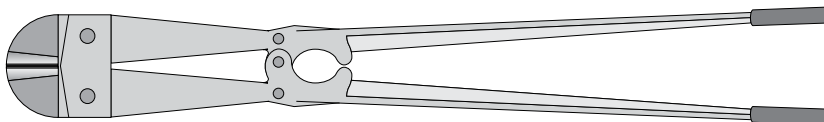
### RISERS



See Page 128

## 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® – 90° LONG RADIUS BENDS

## 90 DEGREES BENDS - LONG RADIUS

### 1. CUT THE BOTTOM AND SIDE WIRES

To form 90° bends in the tray, cut out the number of sections shown below based on the width of the tray used.

### 2. ASSEMBLE USING APPROPRIATE HARDWARE

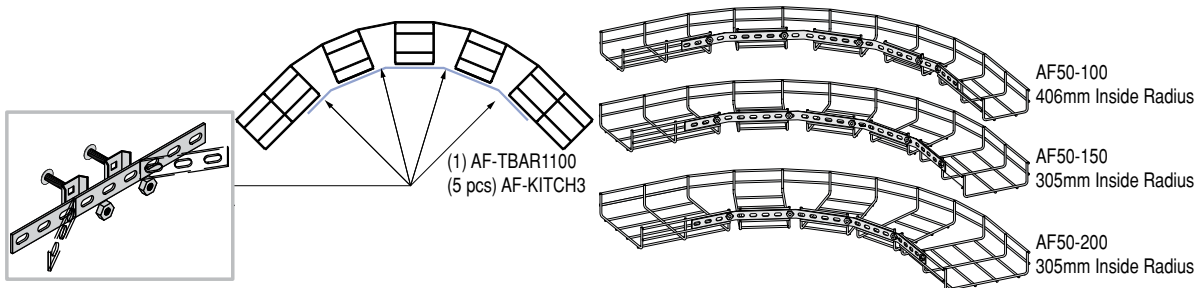
Standard hardware is shown with each bend size.

### Advantages:

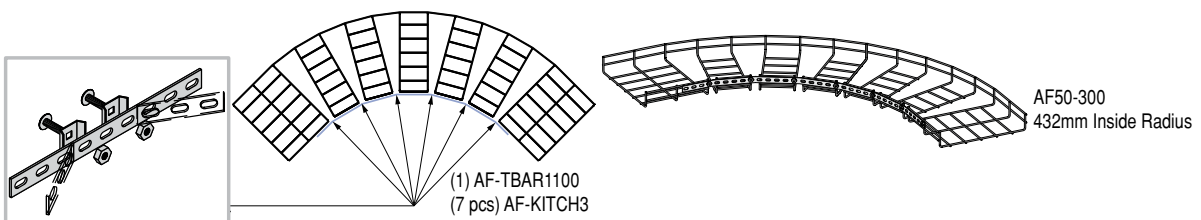
- Use as bonding jumper
- Vertical support of standing sections
- Adjustable radius allowances

**NOTE:** Always place nut on outside of tray

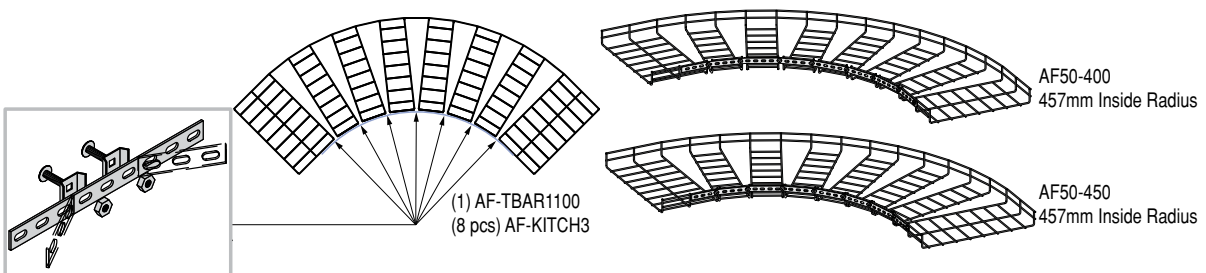
### CUT OUT 4 SECTIONS OF MESH



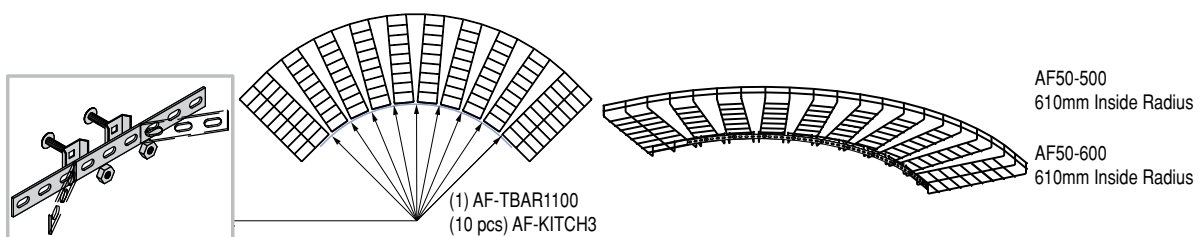
### CUT OUT 6 SECTIONS OF MESH



### CUT OUT 7 SECTIONS OF MESH



### CUT OUT 9 SECTIONS OF MESH



# UNISTRUT® ACROFIL® – 90° SHORT RADIUS BENDS

## 90° BENDS - FORMING INSTRUCTIONS

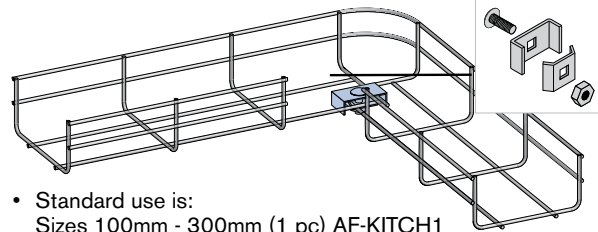
To form 90° bends in the tray, cut the wires shown in the color shaded area of the drawing which corresponds to the width of the tray used.

### 1. CUT THE BOTTOM AND SIDE WIRES

Bends can be formed easily on-site by cutting the bottom and side wires. The shaded areas indicated should be cut and removed. Then, simply bend ACROFIL® cable tray to form a 90° angle and you are ready to install. Make sure you use the appropriate hardware.

### 2. ASSEMBLE USING APPROPRIATE HARDWARE

AF-KITCH1

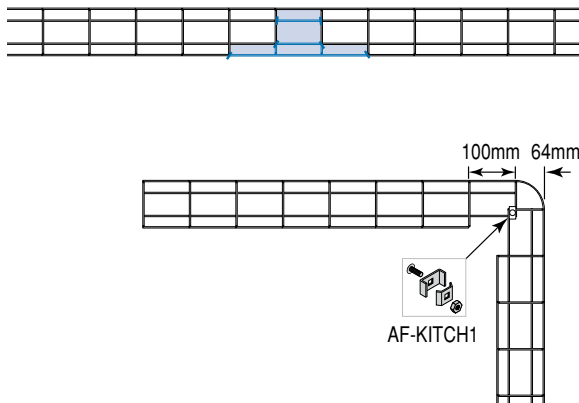


- Standard use is:  
 Sizes 100mm - 300mm (1 pc) AF-KITCH1  
 Sizes 400mm - 600mm (2 pc) AF-KITCH1

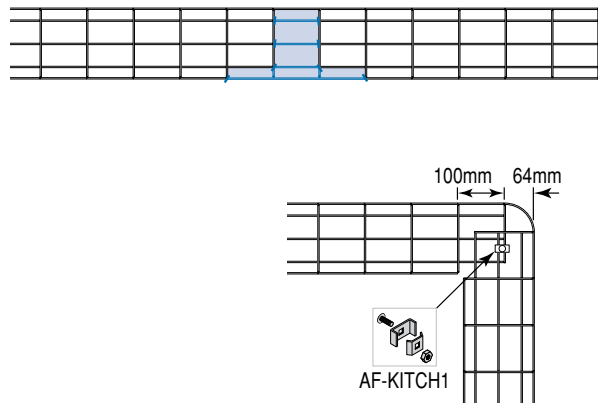
**NOTE:** Always place nut on outside of tray

## 90° BENDS - CUTTING DIAGRAMS

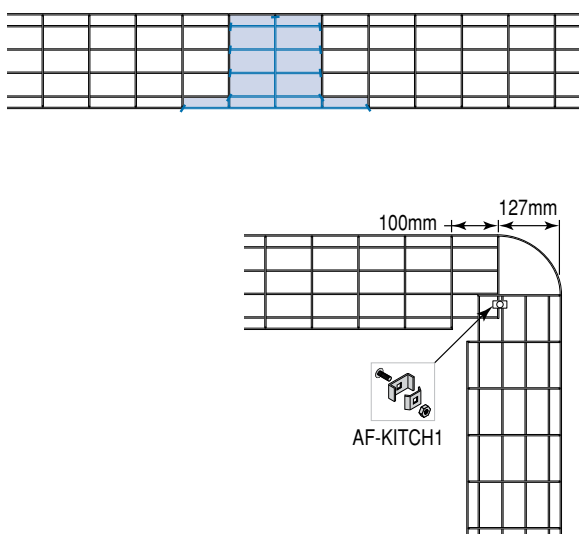
100mm



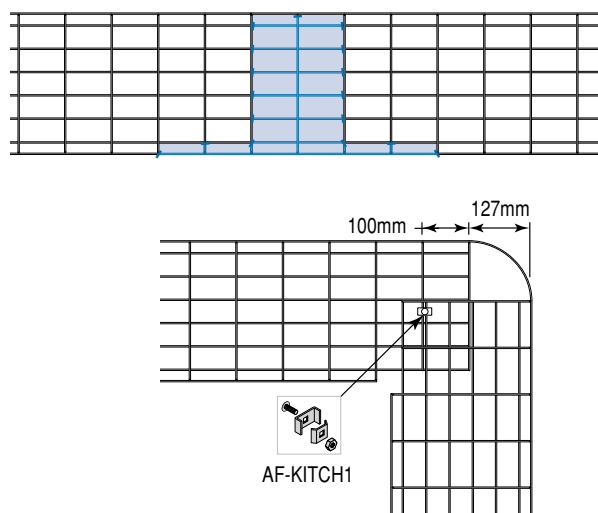
150mm



200mm



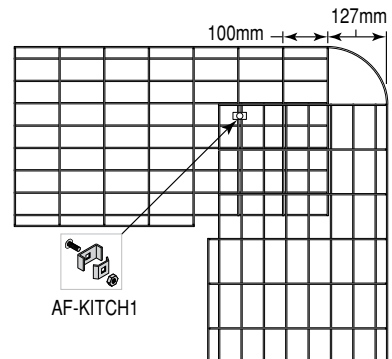
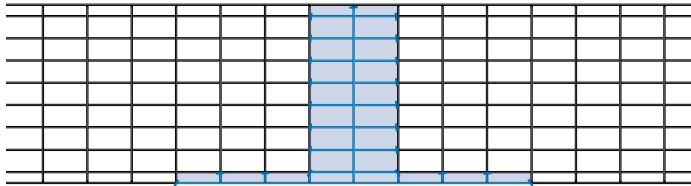
300mm



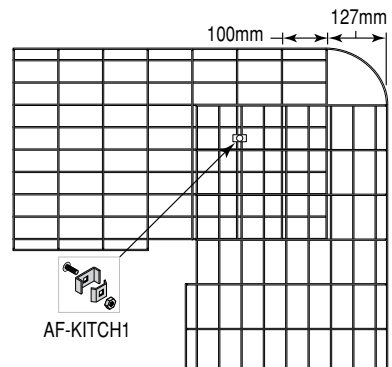
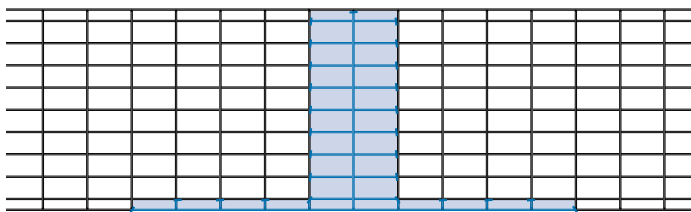
# UNISTRUT® ACROFIL® - 90° SHORT RADIUS BENDS

## 90° BENDS - CUTTING DIAGRAMS

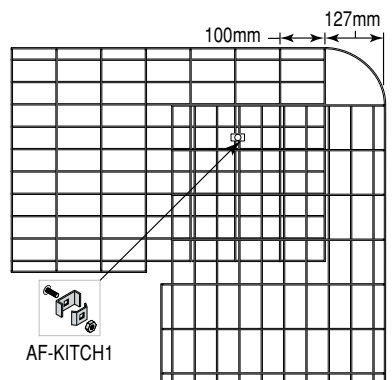
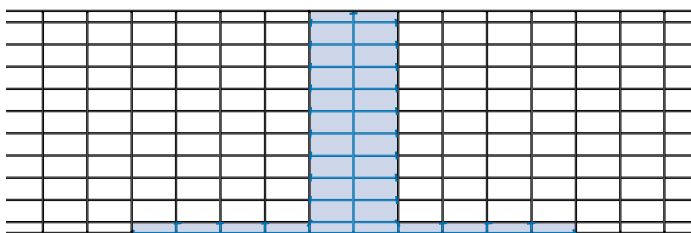
400MM



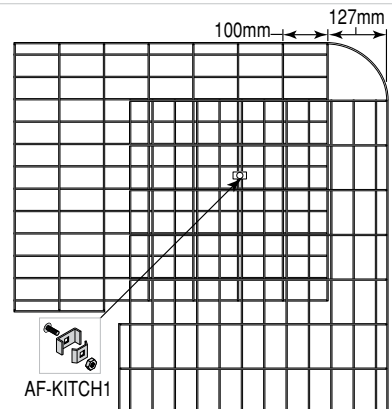
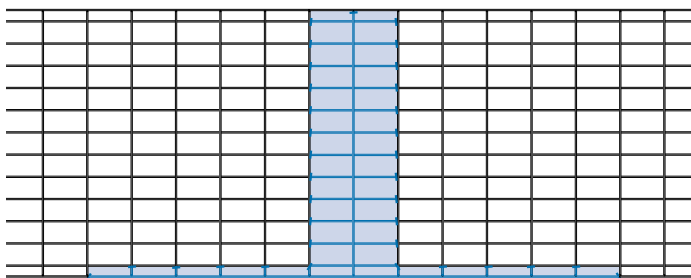
450MM



500MM



600MM



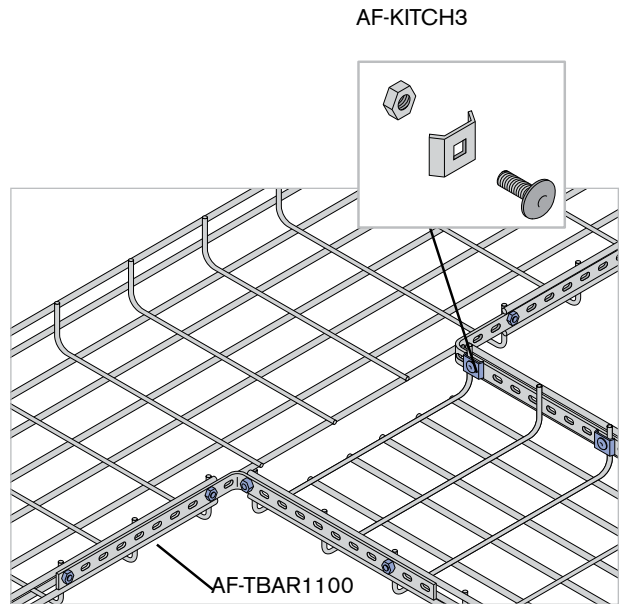
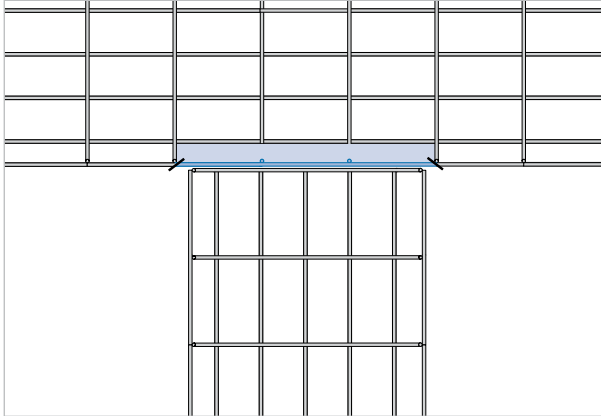
# UNISTRUT® ACROFIL® – CROSS & TEE FITTINGS

## STANDARD TEE

- Standard use per tee is:  
(2 pc) AF-TBAR550 or (1 pc) AF-TBAR1100 cut in half  
(8 pc) AF-KITCH3

**NOTE:** Always place nut on outside of tray

To form a tee, cut the wires marked in blue.

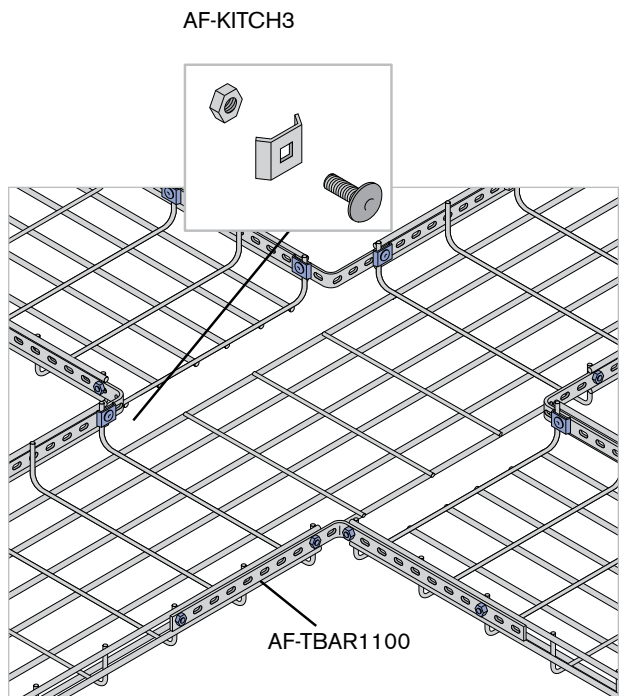
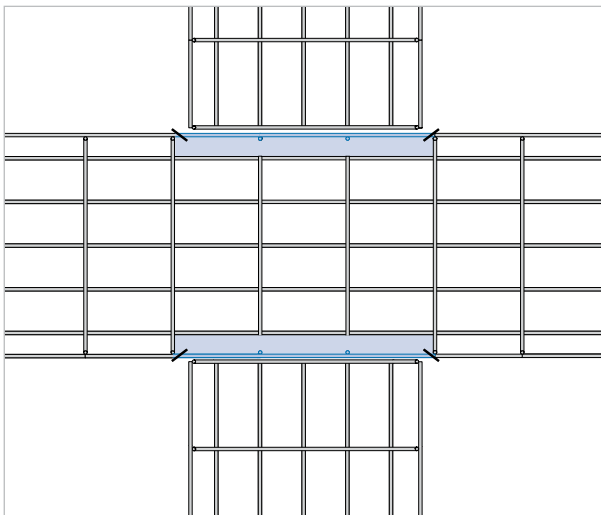


## CROSS

- Standard use per cross is:  
(4 pc) AF-TBAR550 or (2 pc) AF-TBAR1100 cut in half  
(16 pc) AF-KITCH3

**NOTE:** Always place nut on outside of tray

To form a cross, cut the wires marked in blue.



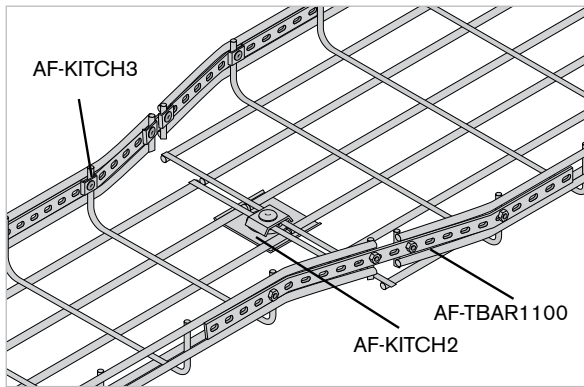
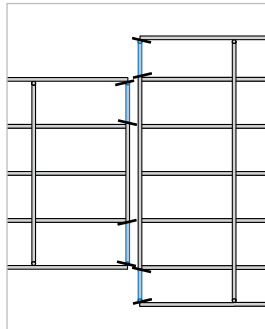
**UNISTRUT®**

**ACROFIL® – REDUCER, OFFSET FITTINGS & RISER**

**REDUCER**

- Standard use per reducer is:  
 (2 pc) AF-TBAR1100  
 (8 pc) AF-KITCH3  
 (1 pc) AF-KITCH2

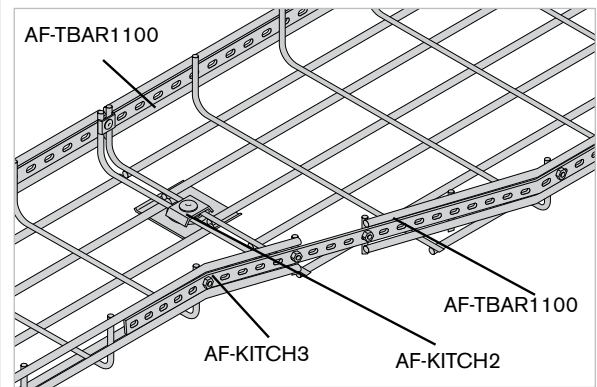
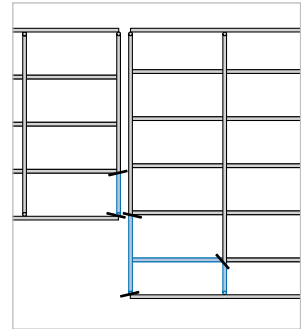
**NOTE:** Always place nut on outside of tray



**OFFSET**

- Standard use per offset is:  
 (2 pc) AF-TBAR1100  
 (8 pc) AF-KITCH3  
 (1 pc) AF-KITCH2

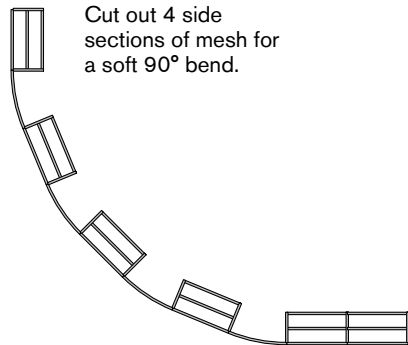
**NOTE:** Always place nut on outside of tray



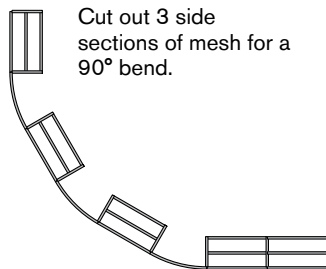
**RISER**

Risers and drops can be created to avoid different obstacles in the job path. Simply cut out the required number of side mesh sections and bend a vertical riser or drop to fit the application.

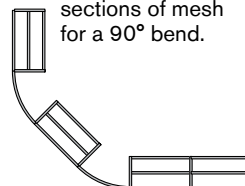
Cut out 4 side sections of mesh for a soft 90° bend.



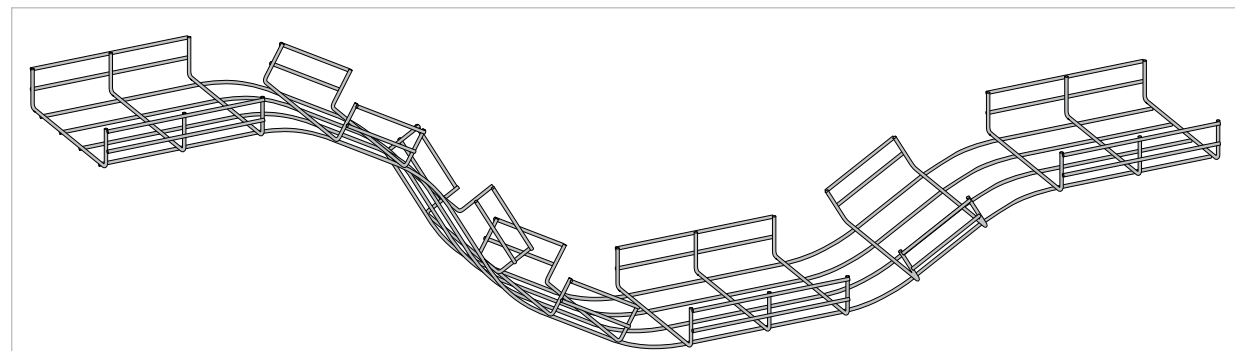
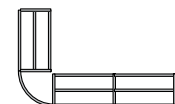
Cut out 3 side sections of mesh for a 90° bend.



Cut out 2 side sections of mesh for a 90° bend.



Cut out 1 side sections of mesh for a hard 90° bend.



## GROUNDING

Unistrut® recommends use of a separate ground wire for equipment grounding.

Any non-conductive coating to ACROFIL® must be removed by the contractor/end-user to maintain electrical continuity.

### Straight Sections

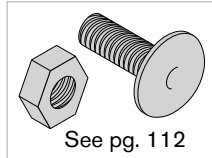
The grounding of two straight sections requires the use of  
(2) AF-GCLIP's and  
(2) AF-EG-CBN's.

These items consist of grounding clips and the appropriate hardware, for connecting to the trays. One clip should be placed on both sides of the tray, attached at the self-splicing bar.

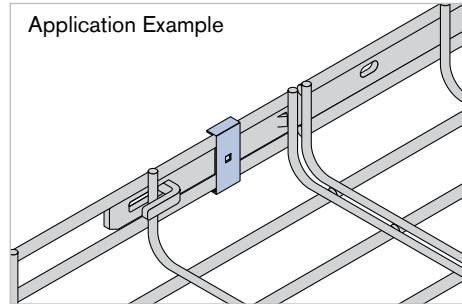
### Straights

2 pcs of AF-GCLIP  
2 pcs of AF-EG-CBN

### AF-EG-CBN



Application Example



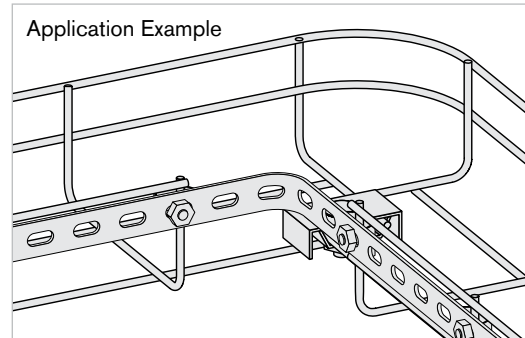
### Fittings

Grounding of fittings requires special attention. Typically fittings are fabricated in the field by cutting straight sections, thus altering the cross sectional area of the tray. A bonding jumper, and or a AF-TBAR1100 Splice, along with the appropriate hardware must be used on either side of the fitting to ensure electrical continuity.

### Fittings

AF-TBAR1100 and  
AF-KITCH3s

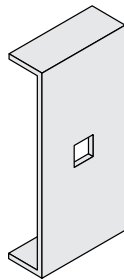
Application Example



## GROUNDING CLIP [AF-GCLIP]

- Standard finish is Galvabond Z275
- Sold in packs of 10
- Connection to splice bars requires a nut and bolt assembly (AF-EG-CBN) purchased separately
- Use on both sides of tray

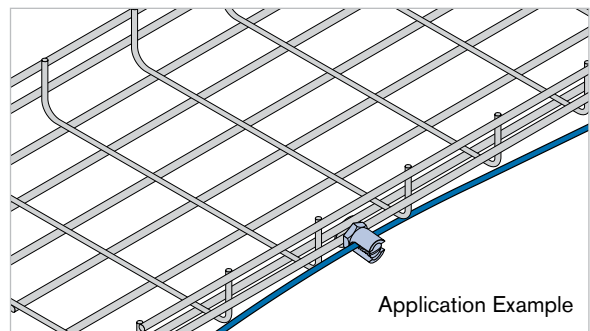
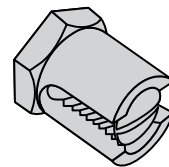
**NOTE:** Always place nut on outside of tray  
AF-GCLIP's must be utilized if the tray is to be utilized as an equipment ground conductor.



## GROUNDING CLAMP/SPLIT BOLT

- Split bolts are utilised for the attachment of a separate ground wire.

**NOTE:** Always place nut on outside of tray



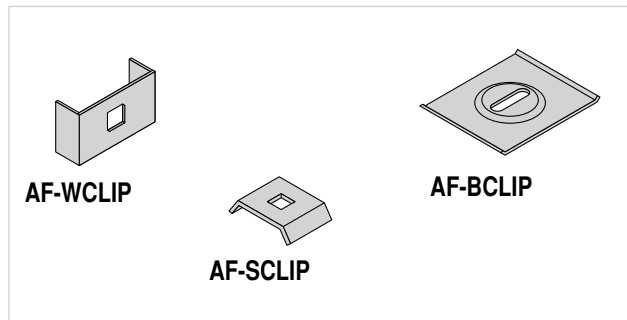


# UNISTRUT® ACROFIL® – HARDWARE

## TRAY CLIPS (SEE PAGE 107 FOR CONNECTOR KITS)

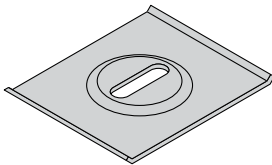
- Standard finish is Zinc Plated

Single Part	Weight (kg)	No./ Pkg
AF-SCLIP	0.09	10
AF-WCLIP	0.14	10
AF-BCLIP	0.42	10



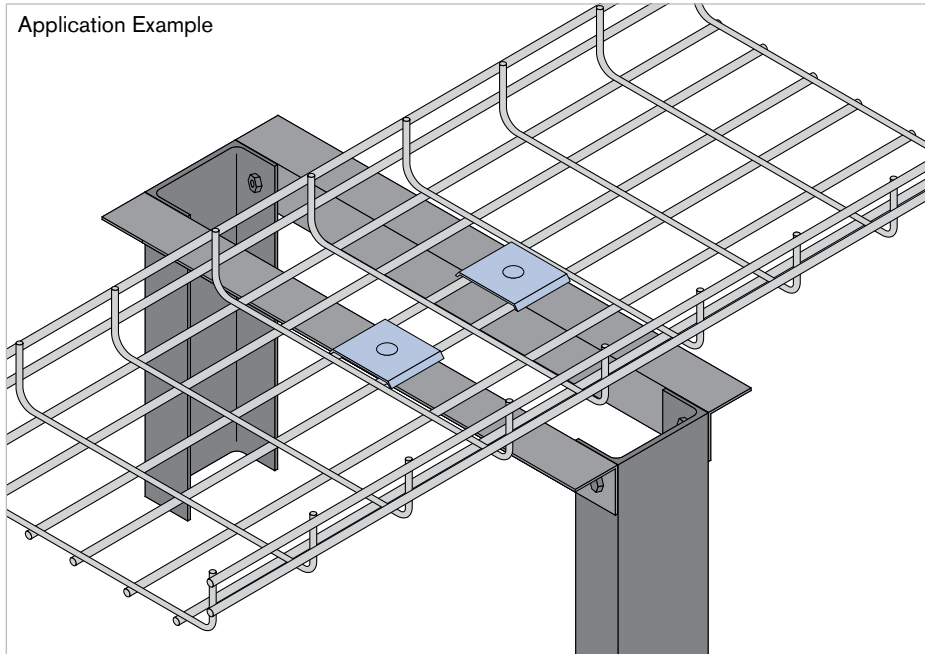
## AF-BCLIP

- AF-BCLIP used as a hold-down clip



Drill hole in aluminum angle of relay rack.  
Use AF-BCLIP to hold ACROFIL® to relay rack using 6 x 20 round head machine screw and bolt and washer.

Application Example



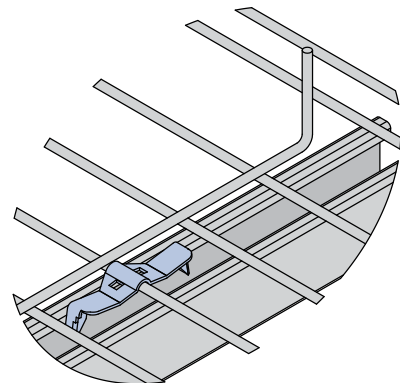
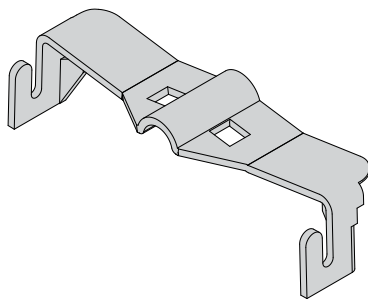
## AFS41-FAST CLIP 304SS

For quick and easy assembly use the AFS41 to secure Acrofil® Wire Basket to strut or strut type cantilever without the need for fixing hardware.

No fixing tools required.

Perfect for use when space is limited.

- Use 2 clips with 300mm or smaller Acrofil® Wire Basket.
- Use 3 clips with 400mm or wider Acrofil® Wire Basket.





# 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

**Hot Dipped 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, center 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.

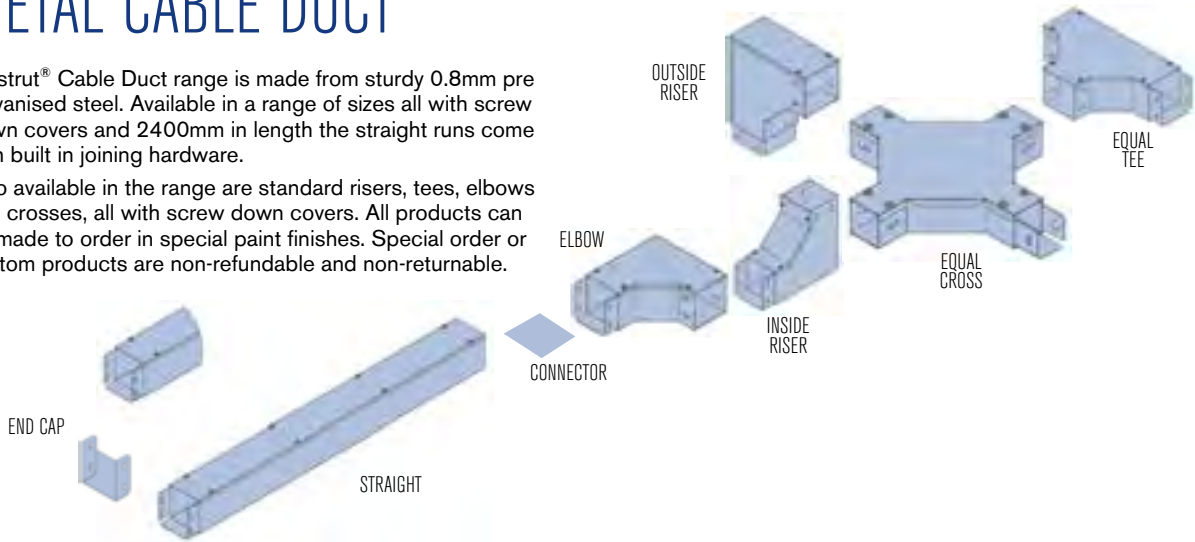
### 7.2 Finish

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

# UNISTRUT® METAL CABLE DUCT

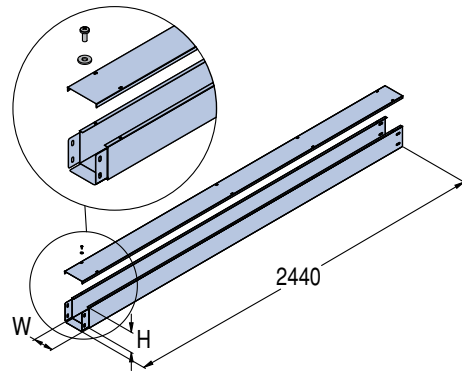
Unistrut® Cable Duct range is made from sturdy 0.8mm pre galvanised steel. Available in a range of sizes all with screw down covers and 2400mm in length the straight runs come with built in joining hardware.

Also available in the range are standard risers, tees, elbows and crosses, all with screw down covers. All products can be made to order in special paint finishes. Special order or custom products are non-refundable and non-returnable.



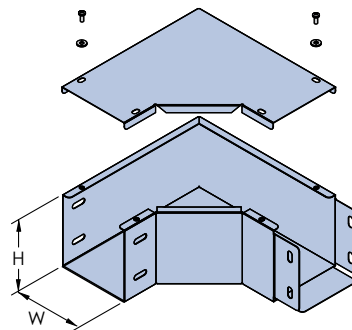
## CABLE DUCT STRAIGHT LENGTH

Part No.	Width	Height	Length
UD5050GB	50mm	50mm	2440mm
UD7575GB	75mm	75mm	2440mm
UD10050GB	100mm	50mm	2440mm
UD100100GB	100mm	100mm	2440mm
UD150100GB	150mm	100mm	2440mm
UD150150GB	150mm	150mm	2440mm



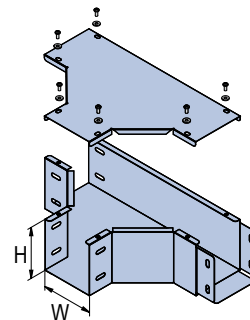
## CABLE DUCT ELBOW

Part No.	Width	Height	Radius
UDE5050GB	50mm	50mm	70mm
UDE7575GB	75mm	75mm	70mm
UDE10050GB	100mm	50mm	70mm
UDE100100GB	100mm	100mm	70mm
UDE150100GB	150mm	100mm	70mm
UDE150150GB	150mm	150mm	70mm



## CABLE DUCT EQUAL TEE

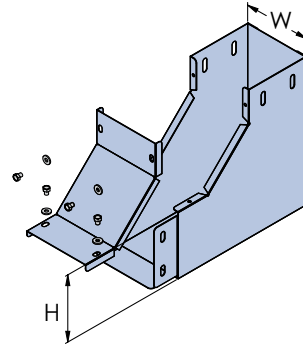
Part No.	Width	Height	Radius
UDT5050GB	50mm	50mm	70mm
UDT7575GB	75mm	75mm	70mm
UDT10050GB	100mm	50mm	70mm
UDT100100GB	100mm	100mm	70mm
UDT150100GB	150mm	100mm	70mm
UDT150150GB	150mm	150mm	70mm



# UNISTRUT® METAL CABLE DUCT

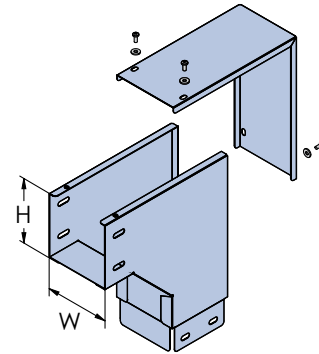
## CABLE DUCT INSIDE RISER

Part No.	Width	Height	Radius
UDRI5050GB	50mm	50mm	70mm
UDRI7575GB	75mm	75mm	70mm
UDRI10050GB	100mm	50mm	70mm
UDRI100100GB	100mm	100mm	70mm
UDRI150100GB	150mm	100mm	70mm
UDRI150150GB	150mm	150mm	70mm



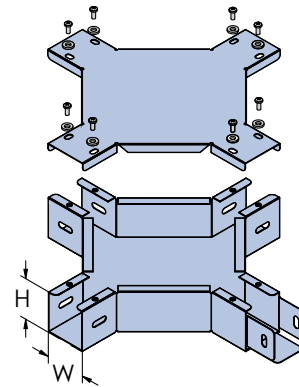
## CABLE DUCT OUTSIDE RISER

Part No.	Width	Height	Radius
UDRO5050GB	50mm	50mm	70mm
UDRO7575GB	75mm	75mm	70mm
UDRO10050GB	100mm	50mm	70mm
UDRO100100GB	100mm	100mm	70mm
UDRO150100GB	150mm	100mm	70mm
UDRO150150GB	150mm	150mm	70mm



## CABLE DUCT EQUAL CROSS

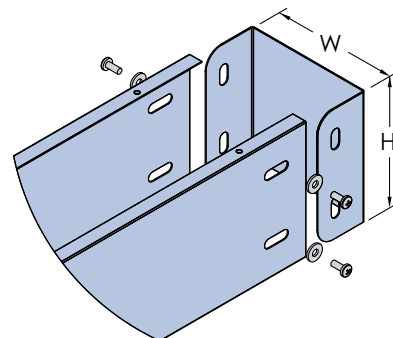
Part No.	Width	Height	Radius
UDC5050GB	50mm	50mm	70mm
UDC7575GB	75mm	75mm	70mm
UDC10050GB	100mm	50mm	70mm
UDC100100GB	100mm	100mm	70mm
UDC150100GB	150mm	100mm	70mm
UDC150150GB	150mm	150mm	70mm



## CABLE DUCT END CAP

Part No.	Width	Height
UDEC5050GB	50mm	50mm
UDEC7575GB	75mm	75mm
UDEC10050GB	100mm	50mm
UDEC100100GB	100mm	100mm
UDEC150100GB	150mm	100mm
UDEC150150GB	150mm	150mm

Use when cutting straight lengths for splicing



# UNISTRUT® CABLE CLEATS PICTORIAL INDEX

## FAULT RATED CLEATS

Cable Cleats/Trefoil & Single Cleat are designed to support and retain cables within a cable tray system in various conditions. The main function is to secure cables and prevent damage in short circuit conditions, Cable Cleats need to be tested under these conditions. Unistrut® now have a range available that are tested to world standards. Unistrut® Cable Cleats are tested and comply to IEC 61914 – the TC and SC range of Trefoil cleats for 13mm to 128mm and single cleats 13mm to 150mm in market demanded design.

## NON FAULT RATED CLEATS

Unistrut® also have a range of Non Faulted Rated Cleats. These are used to bundle low voltage cables and conduits.

## INSTALLATION NOTES

The cleats should be installed properly to secure the cables. Every cleat should be restrained to the tray, the bend radius should be 8-12 times the cable diameter. The cleats should always be installed at the beginning, middle and end of the bend. The distance of the cleats at the bend should be no more than 300mm.

## HOW TO SELECT THE CORRECT CLEAT

### 1. Know the cable

What type of cable is being used, single or multi-conductor?

Outer diameter of the cable?

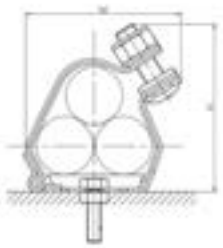
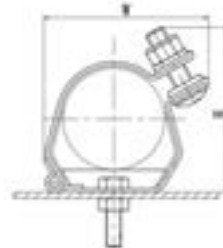
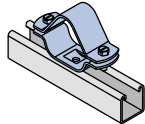
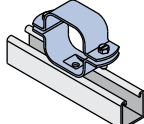
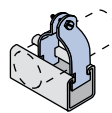
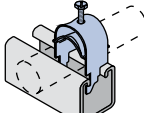
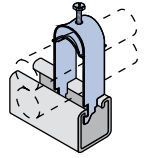
What is the arrangement of the cable—single or Trefoil?

If an earth cable is installed, know the diameter.

### 2. Know the system

What is the available short circuit current (RMS or Peak)?

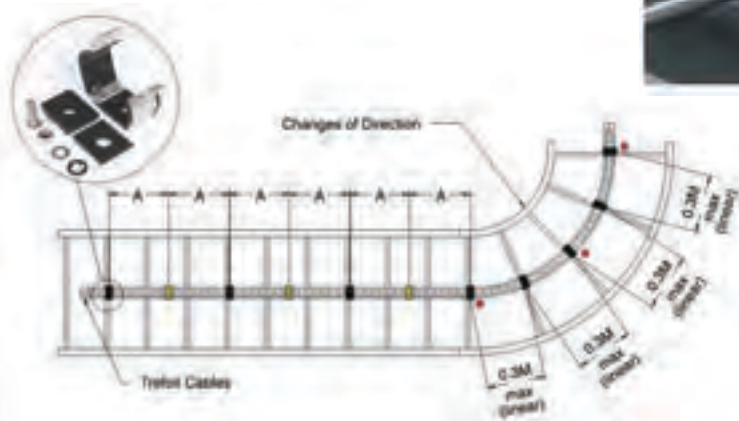
What type and brand of cable support system is being used?

FAULT RATED CLEATS				
 <p>TREFOIL CABLE CLEAT PG. 135</p>		 <p>SINGLE CABLE CLEAT PG. 135</p>		
NON FAULT RATED CLEATS				
 <p>TF SERIES – TREFOIL [ZP] PG. 138</p>	 <p>QF SERIES QUADFOIL [ZP] PG. 138</p>	 <p>CONDUIT CLAMP AND SHEATHED CABLE CLAMP PG. 138 &amp; 139</p>	 <p>KS2026-1 SERIES SINGLE CABLE CLAMP PG. 139</p>	 <p>KS2026-2 SERIES DOUBLE CABLE CLAMP PG. 139</p>

# UNISTRUT® UNICLEATS - FAULT RATED CLEATS

## FAULT RATED CLEATS

PERFORMANCE OF THE CABLE CLEATS	
Resistance to electromechanical force at 300mm spacing	230ka at 300mm spacing
Lateral load test	Ave 25 kg
Temperature range	-40°C ~ 120°C
Needle Flame test 650°C	30 sec
UV Resistance test	1000hrs
Cleat Material	Composite
Frame	54mm* 2.0mm 316SS
Nut & Bolt	316SS
Integral Pad	Halogen Free
Mounting Bolt	Provided



### SINGLE CONDUCTOR SHORT CIRCUIT WITHSTAND TABLE

Max Cable Cleat Spacing (A)	Spacing Between Conductor Centres (mm)																				
	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61	
mm	In	IP peak (KA)																			
225	8.8589	179	187	194	203	209	216	220	229	234	240	246	250	255	261	266	271	276	281	286	291
300	11.81	155	163	168	174	181	187	192	198	203	209	214	215	220	225	230	235	239	244	248	252
450	17.72	128	133	137	144	148	152	157	161	165	170	174	178	180	184	189	192	195	199	202	206
600	23.62	110	115	119	124	128	132	135	139	143	148	150	153	156	160	163	166	169	172	175	178
675	26.57	104	108	113	117	121	124	128	132	135	139	143	147	147	150	154	156	159	162	165	168
900	35.43	89	93	97	102	105	108	110	115	117	121	124	127	128	130	133	135	138	140	143	145

## UNICLEAT TREFOIL CABLE CLEAT

Part Number	Cable Range mm	Height of Cleat "H" mm	Width of Cleat "W" mm	Weight of Cleat kg/100
TC-1323SS	13-23	73	68	34
TC-2125SS	21-25	75	72	41
TC-2329SS	23-29	80	79	44
TC-2531SS	25-31	83	82	44.5
TC-2733SS	27-33	84	85	45
TC-2935SS	29-35	89	90	44.5
TC-3238SS	32-38	92	96	46
TC-3541SS	35-41	98	100	48
TC-3844SS	38-44	100	106	50
TC-4248SS	42-48	104	113	50.5
TC-4551SS	45-51	107	120	52
TC-4753SS	47-53	110	122	52.5
TC-4955SS	49-55	113	125	53
TC-5157SS	51-57	115	127	54.5
TC-5359SS	53-59	118	135	55.5
TC-5561SS	55-61	122	138	57.5
TC-5763SS	57-63	125	141	60
TC-5965SS	59-65	126	145	61.5
TC-6167SS	61-67	131	148	62.5
TC-6369SS	63-69	134	153	65.5
TC-6571SS	65-71	139	155	68.5
TC-6773SS	67-73	143	156	70
TC-6975SS	69-75	146	161	71.5
TC-7177SS	71-77	150	164	72.5
TC-7379SS	73-79	154	166	75
TC-7581SS	75-81	157	170	76.5
TC-7783SS	77-83	160	174	78.5
TC-7985SS	79-85	162	178	80
TC-8187SS	81-87	168	181	80.5
TC-8389SS	83-89	172	185	81
TC-8896SS	88-96	180	195	81.8
TC-96103SS	96-103	189	203	83.5
TC-103111SS	103-111	198	206	83.5
TC-111119SS	111-119	207	215	85
TC-119128SS	119-128	216	223	87.5

# UNISTRUT®

## UNICLEATS – FAULT RATED CLEATS

### UNICLEAT SINGLE CABLE CLEAT

Part Number	Cable Range mm	Height of Cleat "H" mm	Width of Cleat "W" mm	Weight of Cleat kg/100
SC-2832SS	28-32	60	57	25
SC-3034SS	30-34	61	59	25.5
SC-3236SS	32-36	63	61	26.5
SC-3438SS	34-38	65	63	28.5
SC-3640SS	36-40	67	64	30
SC-3842SS	38-42	69	65	31
SC-4044SS	40-44	70	68	31.5
SC-4246SS	42-46	71	69	32.5
SC-4448SS	44-48	73	72	33.5
SC-4650SS	46-50	74	73	34.5
SC-4852SS	48-52	75	77	36.5
SC-5054SS	50-54	78	78	38
SC-5256SS	52-56	79	80	40
SC-5458SS	54-58	80	82	41.2
SC-5660SS	56-60	81	85	42.5
SC-5862SS	58-62	82	87	43.5
SC-6064SS	60-64	85	88	45
SC-6266SS	62-66	87	90	46
SC-6468SS	64-68	89	91	47
SC-6670SS	66-70	90	92	48.5
SC-6872SS	68-72	92	94	49
SC-7074SS	70-74	95	97	50
SC-7276SS	72-76	97	99	51
SC-7478SS	74-78	98	102	52.5
SC-7680SS	76-80	100	104	53.5
SC-7882SS	78-82	102	106	55
SC-8084SS	80-84	105	107	56.6
SC-8286SS	82-86	107	110	58.5
SC-8488SS	84-88	109	111	60
SC-8690SS	86-90	110	113	60.5
SC-9094SS	90-94	115	121	62.5
SC-94118SS	94-118	133	139	65
SC-118130SS	118-130	140	144	70.5
SC-127150SS	127-150	161	166	76.5

CABLE CLEATS

FAULT RATED



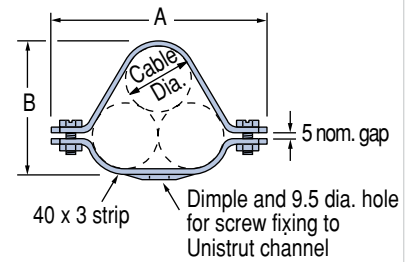
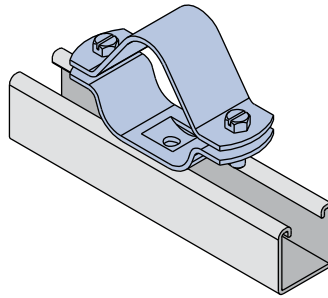
**UNISTRUT®**

**UNICLEATS - NON FAULTED RATED CLEATS RANGE**

**TF SERIES - TREFOIL [ZP]**

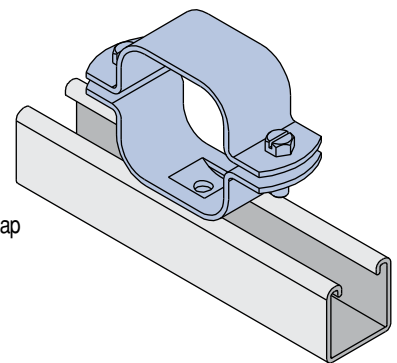
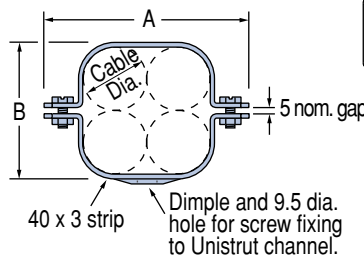
Specifically designed for fixing directly to Unistrut® channels.

Cable Dia.	Dim. A	Dim. B	Part No.
20	92	43	TF20
22	96	47	TF22
24	100	51	TF24
27	106	56	TF27
30	112	62	TF30
33	118	68	TF33
37	126	75	TF37
41	134	83	TF41
45	142	90	TF45



**QF SERIES QUADFOIL [ZP]**

Cable Dia.	Dim. A	Dim. B	Part No.
20	92	46	QF20
22	96	50	QF22
24	100	54	QF24
27	106	60	QF27
30	112	66	QF30
33	118	72	QF33
37	126	80	QF37
41	134	88	QF41
45	142	96	QF45

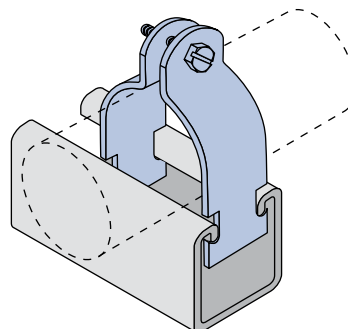


Specifically designed for fixing directly to Unistrut® channels.

Slotted hex head screws included

**CONDUIT CLAMP**

Part No	Conduit Nom. Size	Conduit Actual Size	Mass Kg/100
P2027	16	15.8	4.5
P2028	20	19.8	5.0
P2030	25	24.8	6.4
P2032	32	31.8	7.3
P2034	40	39.8	8.2
P2037	50	49.8	12.7
P2042	63	62.8	15.9
P2046	65	75.3	18.6
P2050	80	88.9	21.3
P2058	100	114.3	30.4
P2070-62	150	160.2	44.5



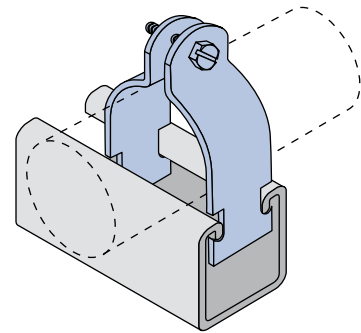
Slotted hex head screw and nut included

# UNICLEATS - NON FAULTED RATED CLEATS RANGE

## SHEATHED CABLE CLAMP

Part No	Sheathed Cable O.D	Mass Kg/100
P2024	8	3.6
P2025	11	3.6
P2026	14	4.1
P2027	17	4.5
P2028	19	5.0
P2029	22	5.4
P2030	25	6.4
P2031	29	6.8
P2032	32	7.3
P2033	35	7.7
P2034	38	8.2
P2035	43	8.6
P2036	44	10.6
P2037	49	12.7

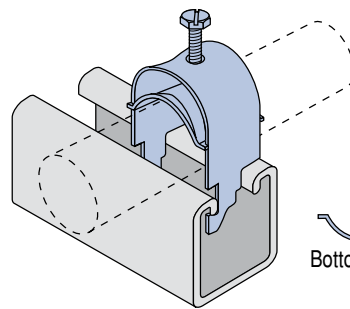
Part No.	Sheathed Cable O.D	Mass Kg/100
P2038	51	14.1
P2039	54	14.5
P2040	57	15.0
P2041	60	15.4
P2042	64	15.9
P2043	67	16.8
P2044	70	17.2
P2046	76	18.6
P2047	79	19.5
P2048	83	20.4
P2049	86	20.9
P2052	95	26.3
P2055	105	28.1



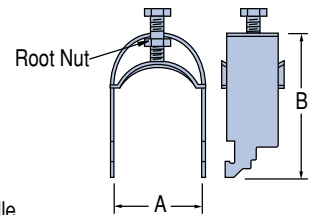
Slotted hex head screw and nut included

## KS2026-1 SERIES - SINGLE CABLE CLAMP

Part No.	Cable Dia.	Dim. A	Dim. B	Mass Kg/100
KS2026-1	13	16	50	5.1
KS2028-1	19	22	58	6.2
KS2030-1	25	29	66	6.8
KS2032-1	32	35	71	8.0
KS2034-1	38	44	78	14.1
KS2036-1	44	51	86	16.0
KS2038-1	51	57	92	17.2
KS2040-1	57	64	98	19.0
KS2042-1	64	70	105	20.8
KS2044-1	70	76	113	22.8
KS2046-1	76	83	122	24.0



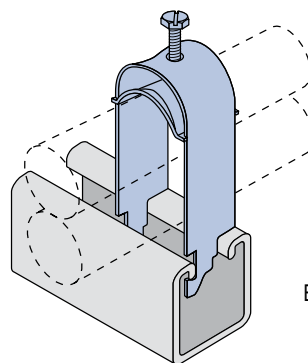
Bottom Saddle



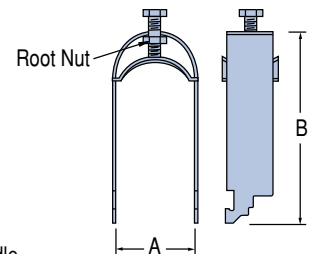
**NOTE:** Bottom Saddle if required can be ordered separately

## KS2026-2 SERIES - DOUBLE CABLE CLAMP

Part No.	Cable Dia.	Dim. A	Dim. B	Mass Kg/100
KS2026-2	13	16	64	6.1
KS2028-2	19	22	76	7.5
KS2030-2	25	29	91	9.0
KS2032-2	32	35	102	9.7
KS2034-2	38	44	118	18.2
KS2036-2	44	51	128	20.2
KS2038-2	51	57	143	22.8
KS2040-2	57	64	156	26.0
KS2042-2	64	70	170	28.0
KS2044-2	70	76	185	31.6
KS2046-2	76	83	198	33.6



Bottom Saddle



**NOTE:** Bottom Saddle if required can be ordered separately

# UNISTRUT®


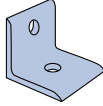
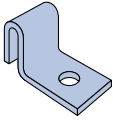

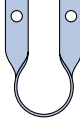
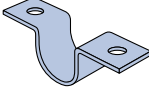
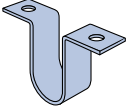
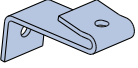
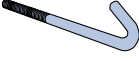
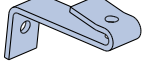
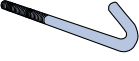
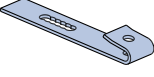
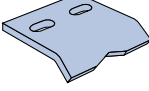
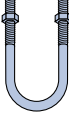


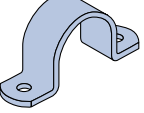
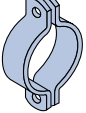

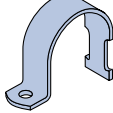
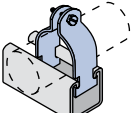
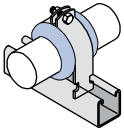
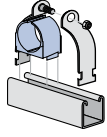
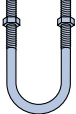
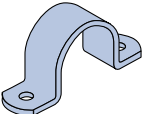
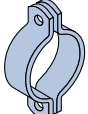


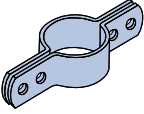
## SPRINKLER AND PIPE SUPPORT - PICTORIAL INDEX

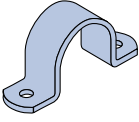
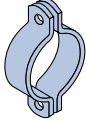
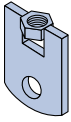
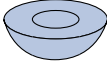
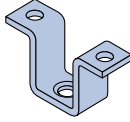
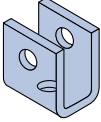
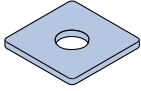
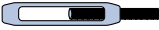

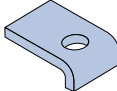
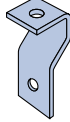

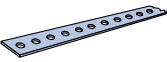

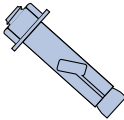
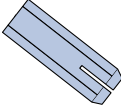
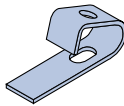
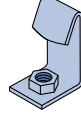
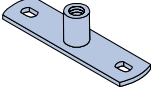
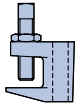
### PIPE SUPPORTS

The Unistrut® pipe support systems covers an extensive range of hangers, pipe clips, pipe clamps ferrules and cushioning, hanger fittings, beam clamps, beam attachments, and support brackets. The range covers from small bore tubing through to pipes in excess of 600mm diameter.

### SPRINKLER PIPE SUPPORTS

In addition to our standard range of pipe supports for general industry, mechanical services and others, the Unistrut® range also includes pipe supports specifically designed for the fire protection industry.

SPRINKLER PIPE SUPPORTS						
						
F11000 "U" BRACKET [HG] PG. 142	F12000 ANGLE BRACKET [HG] PG. 142	F13000 SLOTTED ANGLE [HG] PG. 142	F15000 SERIES SLOTTED ANGLE PG. 144	F16000 LIGHT DUTY TWIST CLIP PG. 144	F31000 LIGHT DUTY PIPE SADDLE CLAMPS [ZP] PG. 144	F32000 LIGHT DUTY DEEP SADDLE PG. 144
						
F21000 HEAVY DUTY BEAM CLAMP PG. 145	F23000 HEAVY DUTY HOOK BOLT PG. 145	F22000 LIGHT DUTY BEAM CLAMP PG. 146	F24000 LIGHT DUTY HOOK BOLT PG. 146 & 147	F25000 ANGLE IRON CLAMP PLATE PG. 147	F40000 PIPE BEAM CLAMP PG. 148	F41000 "U" BOLTS PG. 148
PIPE SUPPORTS - LIGHT DUTY						
						
UN1 LIGHT DUTY ONE-PIECE PIPE CLAMPS PG. 149	UN3 LIGHT DUTY PEAR HANGER PG. 149	UN4 LIGHT DUTY PIPE CLAMPS PG. 150	UN6 LIGHT DUTY TWO-PIECE PIPE CLAMPS PG. 150	UN8 LIGHT DUTY TWO-PIECE PIPE CLAMPS PG. 151	UN10 LIGHT DUTY SINGLE BOLT STRUT CLAMP PG. 151	P2024 PIPE SUPPORTS PG. 152
						
P2600 UNI-CUSHION® PG. 152	CUSH-A-CLAMP® PG. 153					
PIPE SUPPORTS - MEDIUM DUTY						
						
UN14 "U" BOLTS PG. 154	UN15 MEDIUM DUTY SADDLE CLAMP PG. 154	UN16 MEDIUM DUTY TWO-PIECE PIPE CLAMP PG. 155	UN18 MEDIUM DUTY TWO-PIECE PIPE CLAMP PG. 155	UN20 MEDIUM DUTY THREE BOLT PIPE CLAMP PG. 156	UN21 MEDIUM DUTY VERTICAL PIPE CLAMP PG. 156	

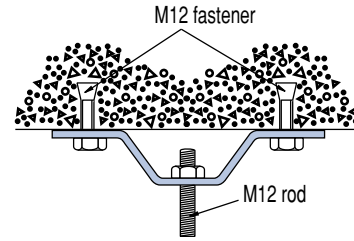
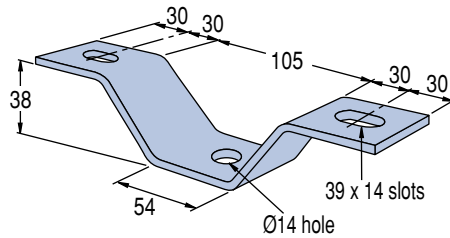
PIPE SUPPORTS - HEAVY DUTY AND ACCESSORIES						
						
UN30 HEAVY DUTY SADDLE CLAMP PG. 157	UN31 HEAVY DUTY TWO-PIECE PIPE CLAMP PG. 157	UN35 EYE NUTS [HG] PG. 157	UN37 SPHERICAL WASHER FOR UN38 [M] PG. 157	UN38 SWIVEL CAGE [HG] PG. 157		
ACCESSORIES AND BEAM ATTACHMENTS						
						
UN39 WELD ON BRACKET [PL] PG. 158	UN40 SQUARE WASHER [HG] PG. 158	UN42 TURNBUCKLES [HG] PG. 158	UN43 MACHINE THREADED ROD PG. 158	UN44 BEAM CLIP PG. 159	UNCL CLEVIS HANGER [HG] PG. 159	UNPL LINK PLATE [HG] PG. 159
						
UHS HANGER STRAP [GB/ZP] PG. 159	4029706 WEBFIX BOLT SIDE HANGER PG. 160	DYNABOLT PG. 160	DROP IN ANCHOR PG. 160	Z10 Z PURLIN CLAMP [GB] PG. 160	PF2010 PURLIN CLIP [ZP] PG. 160	RH1200 ROD HANGER MOUNTING PLATES PG. 161
						
FL BEAM CLAMP [ZP] PG. 161						

**UNISTRUT®**

**SPRINKLER PIPE SUPPORTS – ANGLE & U BRACKETS**

**F11000 – “U” BRACKET [HG]**

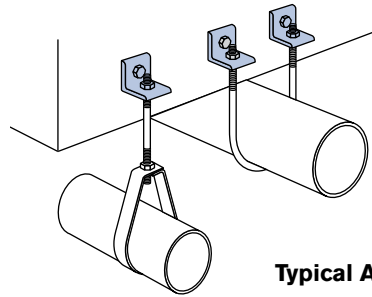
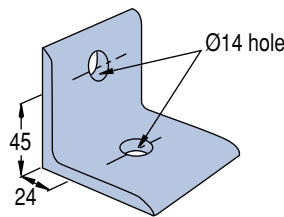
Part No	Material	kg	Box
F11000	32 x 6	0.30	25



**Typical Application**

**F12000 – ANGLE BRACKET [HG]**

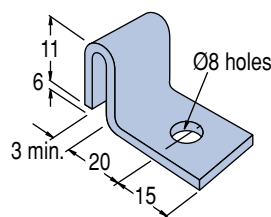
Part No	Material	kg	Box
F12000	65 x 65 x 6 x 60	0.30	25



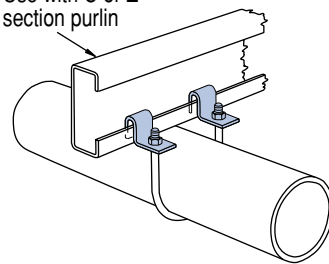
**Typical Application**

**F13000 – PURLIN CLAMP [HG]**

Part No	Material	kg	Box
F13000	20 x 3	0.30	100



Use with C or Z section purlin



**Typical Application**

# UNISTRUT® SPRINKLER PIPE SUPPORTS – SLOTTED ANGLES

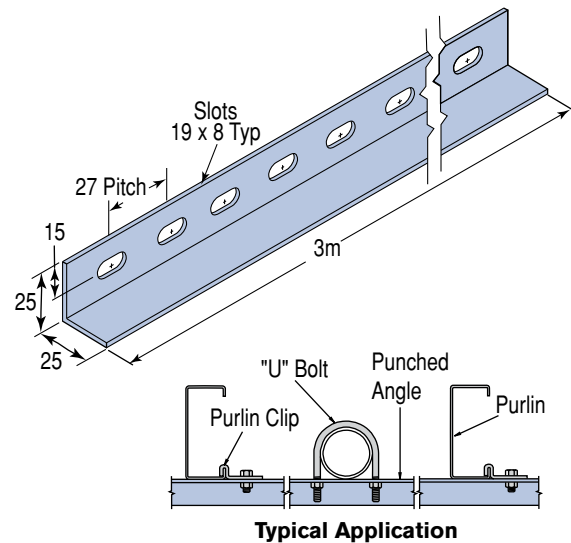
## F15000 – SLOTTED ANGLE [ZP]

**Material:** 25x25x3 Angle

**Length:** 3 metres

**Mass:** 1.00 kg/m

Distance Between Supports	Uniformly Distributed Loading		Mid-Span Point Load	
	Max. Permissible Loading kN	Deflection mm	Max. Permissible Loading kN	Deflection mm
500mm	0.93	1.1	0.46	0.9
1000mm	0.46	4.5	0.23	3.5
1500mm	0.30	9.7	0.15	7.7
2000mm	0.23	17.6	0.11	13.5

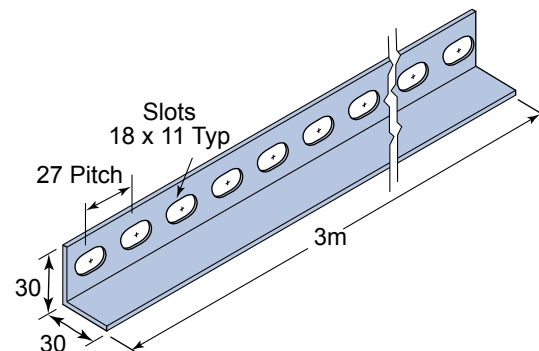


## F15030 – SLOTTED ANGLE [HG]

**Material:** 30x30x2.5 Angle

**Length:** 3 metres

Distance Between Supports	Uniformly Distributed Loading		Mid-Span Point Load	
	Max. Permissible Loading kN	Deflection mm	Max. Permissible Loading kN	Deflection mm
500mm	3.84	1	1.9	1.5
1000mm	0.96	4	0.5	3.2
1500mm	0.43	8.7	0.21	4.5
2000mm	0.24	15.3	0.12	6.13

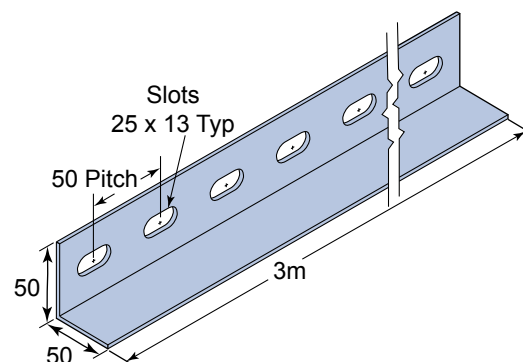


## F15050 – SLOTTED ANGLE [ZP]

**Material:** 50x50x3 Angle

**Length:** 3 metres

Distance Between Supports	Uniformly Distributed Loading		Mid-Span Point Load	
	Max. Permissible Loading kN	Deflection mm	Max. Permissible Loading kN	Deflection mm
500mm	26.88	0.6	13.44	2
1000mm	3.36	2.4	1.68	2
1500mm	2.25	5.5	1.12	4.4
2000mm	1.68	9.7	0.84	7.8

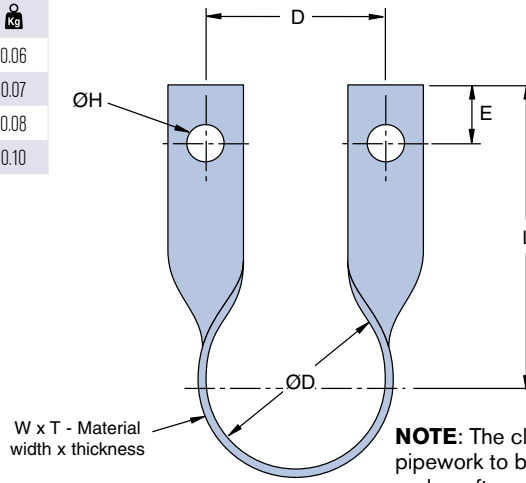


# UNISTRUT®

## SPRINKLER PIPE SUPPORTS – CLIPS AND SADDLES

### F16000 – LIGHT DUTY TWIST CLIP

Part No	Finish	D	L	E	ØH	W x T	kg
F16025	GB	34mm	65	15	8	25 X 1.6	0.06
F16032	GB	43mm	70	15	8	25 X 1.6	0.07
F16040	GB	48mm	72	15	8	25 X 1.6	0.08
F16050	ZP	60mm	85	15	11	25 X 3	0.10



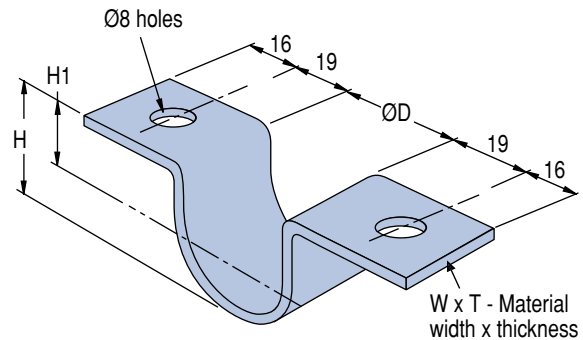
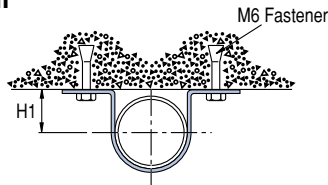
**Standard finish:** GB  
**Description:** Twist Clip

**NOTE:** The clip detail is for pipework to be erected hard under rafters or floor joists.

### F31000 – LIGHT DUTY PIPE SADDLE CLAMPS [ZP]

Part No	ØD	H	H1	H1	kg
F31025	34	41	24.0	29 X 1.5	0.04
F31032	43	51	29.5	29 X 1.5	0.05
F31040	48	52	28.0	29 X 1.5	0.05
F31050	60	67	37.0	29 X 1.5	0.11

**Typical Application**

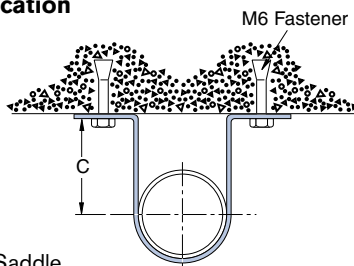


**Standard finish:** Zinc Plated

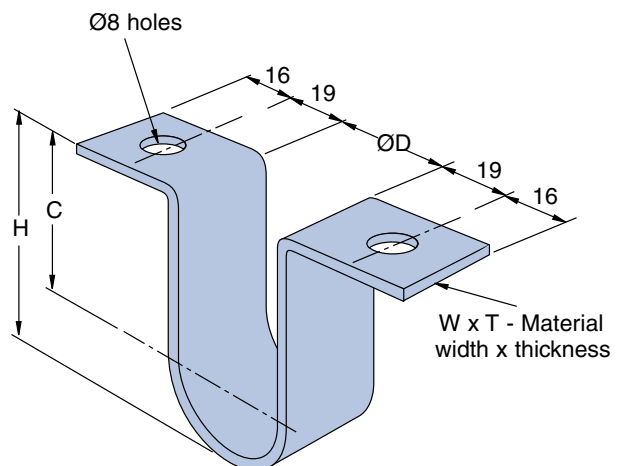
### F32000 – LIGHT DUTY DEEP SADDLE

Part No	Finish	ØD	H	C	W x T	kg
F32025	GB	34mm	68	51	25 X 1.6	0.06
F32032	GB	43mm	75	53.5	25 X 1.6	0.07
F32040	GB	48mm	79	55	25 X 1.6	0.08
F32050	ZP	60mm	86	56	25 X 3	0.13

**Typical Application**



**Description:** Saddle



# SPRINKLER PIPE SUPPORTS – BEAM CLAMPS

### F23000 – HEAVY DUTY HOOK BOLT

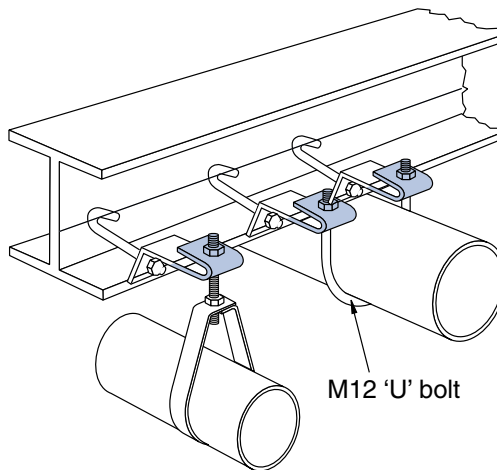
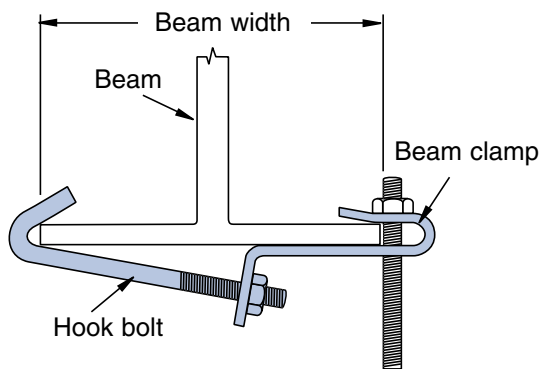
**Standard Finish:** Zinc Plated

Hex Nut included

### F21000 – HEAVY DUTY BEAM CLAMP

**Standard Finish:** Hot Dipped Galvanised  
**Material:** 50 x 5 Strip

**Typical Application**



Beam Width	HOOK BOLT			BEAM CLAMP		
	Part No.	L	Mass kg	Part No.	A	Mass kg
64	F23075	75	0.10	F21050	50	0.29
76	F23075	75	0.10	F21050	50	0.29
89	F23100	100	0.12	F21050	50	0.29
102	F23100	100	0.12	F21050	50	0.29
127	F23075	75	0.10	F21100	100	0.39
135	F23075	75	0.10	F21100	100	0.39
145	F23100	100	0.12	F21100	100	0.39
152	F23100	100	0.12	F21100	100	0.39
165	F23100	100	0.12	F21100	100	0.39
170	F23100	100	0.12	F21100	100	0.39
180	F23135	135	0.13	F21100	100	0.39
190	F23135	135	0.13	F21100	100	0.39
210	F23135	135	0.13	F21100	100	0.39
230	F23135	135	0.13	F21150	150	0.48
255	F23175	175	0.17	F21150	150	0.48
265	F23175	175	0.17	F21150	150	0.48
270	F23175	175	0.17	F21150	150	0.48

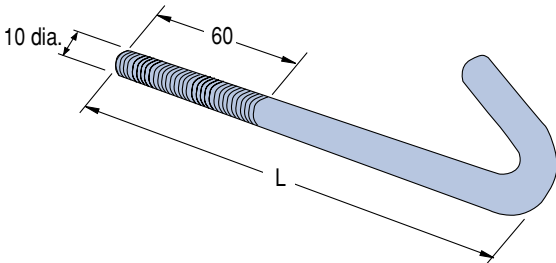


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# SPRINKLER PIPE SUPPORTS – BEAM CLAMPS

## F24000 – LIGHT DUTY HOOK BOLT

**Standard Finish:** Zinc Plated

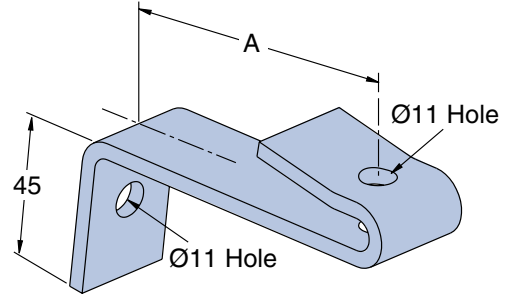


Hex Nut included

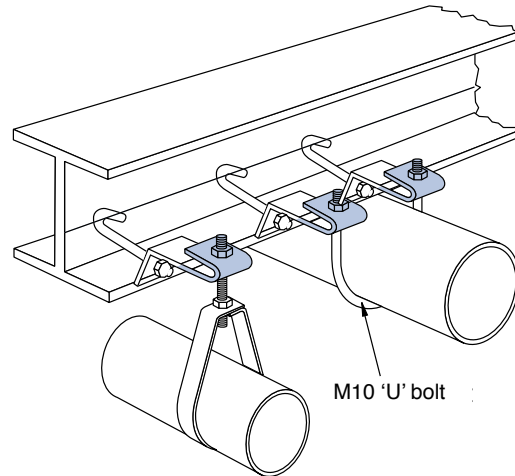
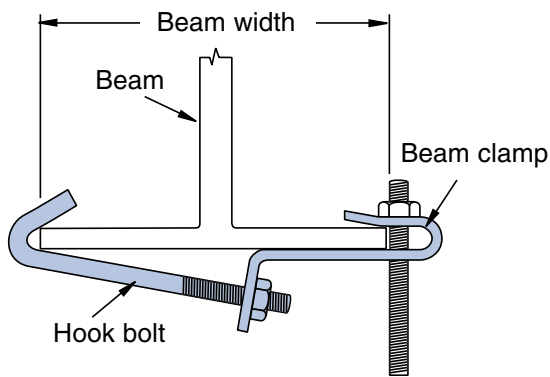
## F22000 – LIGHT DUTY BEAM CLAMP

**Standard Finish:** Hot Dipped Galvanised

**Material:** 32 x 5 Strip



### Typical Application

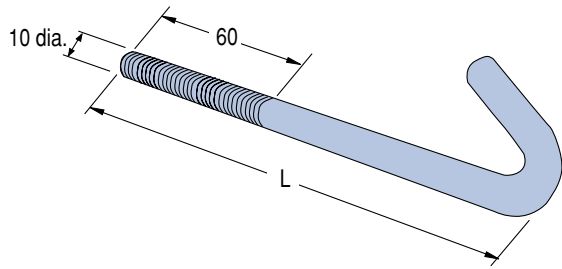


Beam Width	HOOK BOLT			BEAM CLAMP		
	Part No.	L	Mass kg	Part No.	A	Mass kg
64	F24075	75	0.07	F22050	50	0.22
76	F24075	75	0.07	F22050	50	0.22
89	F24100	100	0.08	F22050	50	0.22
102	F24100	100	0.08	F22050	50	0.22
127	F24075	75	0.07	F22100	100	0.30
135	F24075	75	0.07	F22100	100	0.30
145	F24100	100	0.08	F22100	100	0.30
152	F24100	100	0.08	F22100	100	0.30
165	F24100	100	0.08	F22100	100	0.30
170	F24100	100	0.08	F22100	100	0.30
180	F24135	135	0.09	F22100	100	0.30
190	F24135	135	0.09	F22100	100	0.30
210	F24135	135	0.09	F22100	100	0.30
230	F24135	135	0.09	F22150	150	0.31
255	F24175	175	0.11	F22150	150	0.31
265	F24175	175	0.11	F22150	150	0.31
270	F24175	175	0.11	F22150	150	0.31

# SPRINKLER PIPE SUPPORTS – ANGLE IRON CLAMPS

## F24000 – LIGHT DUTY HOOK BOLT

**Standard Finish:** Zinc Plated

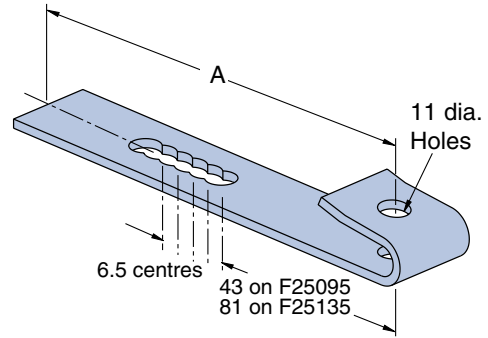


Hex Nut included

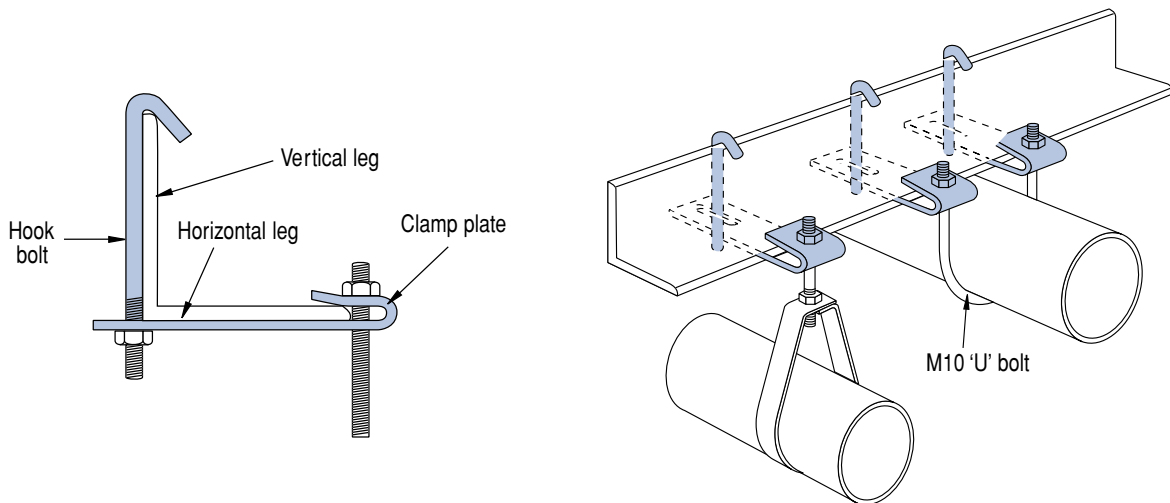
## F25000 – ANGLE IRON CLAMP PLATE

**Standard Finish:** Hot Dipped Galvanised

**Material:** 32 x 3 Strip



### Typical Application



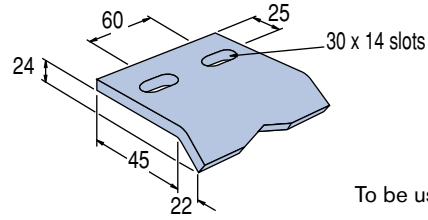
Angle Size		HOOK BOLT			Angle Size		CLAMP PLATE	
Width Leg	Part No.	L	Mass kg	Horizontal Leg	Part No.	A	Mass kg	
32	F24075	75	0.07	32	F25095	95	0.11	
38	F24075	75	0.07	38	F25095	95	0.11	
44	F24075	75	0.07	44	F25095	95	0.11	
51	F24075	75	0.07	51	F25095	95	0.11	
57	F24075	75	0.07	57	F25095	95	0.11	
64	F24100	100	0.08	64	F25095	95	0.11	
76	F24100	100	0.08	76	F25135	135	0.14	
89	F24135	135	0.09	89	F25135	135	0.14	
102	F24135	135	0.09	102	F25135	135	0.14	
127	F24175	175	0.11					
152	F24175	175	0.11					

# SPRINKLER PIPE SUPPORTS – PIPE BEAM CLAMP

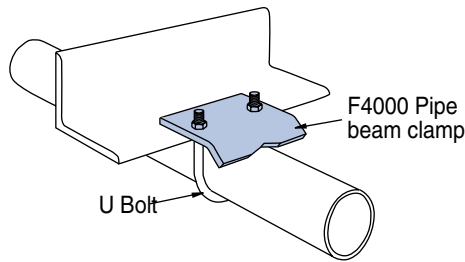
## F40000 – PIPE BEAM CLAMP

Part No	Finish	Description
F40000	ZP	Beam Clamp

**Note:**  
**Standard Finish:** Zinc Plated  
**Material:** 110 x 5  
**Mass:** 0.29kg



To be used with 'U' bolts

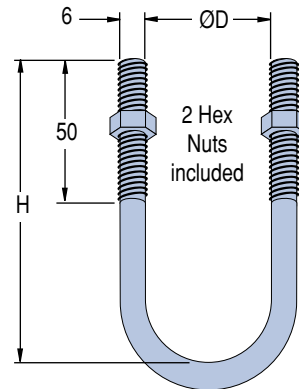


**Typical Application**

**Standard finish:** Zinc plated

## F41000 – “U” BOLTS

Part No	Finish	Size	Description
F41034	ZP	34mm ØD	U BOLT
F41043	ZP	43mm ØD	U BOLT
F41048	ZP	48mm ØD	U BOLT
F41060	ZP	60mm ØD	U BOLT
F41076	ZP	76mm ØD	U BOLT
F41089	ZP	89mm ØD	U BOLT
F41114	ZP	114mm ØD	U BOLT
F41140	ZP	140mm ØD	U BOLT
F41165	ZP	165mm ØD	U BOLT



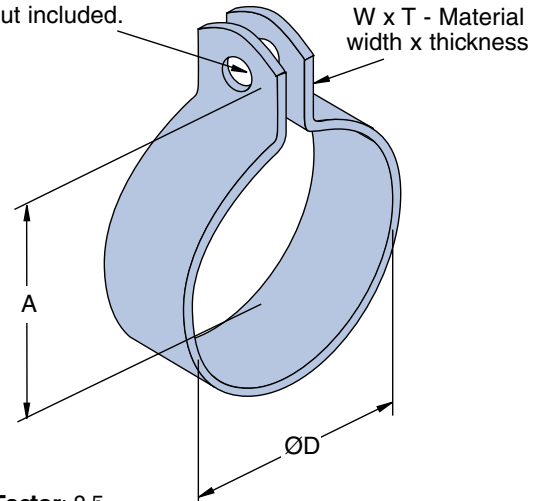
**Standard finish:** Zinc plated

# UNISTRUT® PIPE SUPPORTS – LIGHT DUTY

## UN1 - LIGHT DUTY ONE-PIECE PIPE CLAMPS

Part No.	Finish	A	ØD	W x T
UN1-013	GB	20	13MM	25 x 1
UN1-016	GB	22	16MM	25 x 1
UN1-019	GB	23	19MM	25 x 1
UN1-021	GB	24	21MM	25 x 1
UN1-025	GB	26	25MM	25 x 1
UN1-027	GB	27	27MM	25 x 1
UN1-032	GB	30	32MM	25 x 1
UN1-034	GB	31	34MM	25 x 1
UN1-038	GB	33	38MM	32 x 1.6
UN1-043	GB	36	43MM	32 x 1.6
UN1-048	GB	38	48MM	32 x 1.6
UN1-051	GB	40	51MM	32 x 1.6
UN1-060	GB	45	60MM	32 x 1.6
UN1-064	GB	48	64MM	32 x 1.6
UN1-076	GB	54	76MM	32 x 1.6
UN1-089	GB	60	89MM	32 x 2
UN1-102	GB	66	102MM	32 x 2
UN1-114	GB	73	114MM	32 x 2
UN1-152	GB	91	152MM	40 x 3
UN1-165	GB	98	165MM	40 x 3

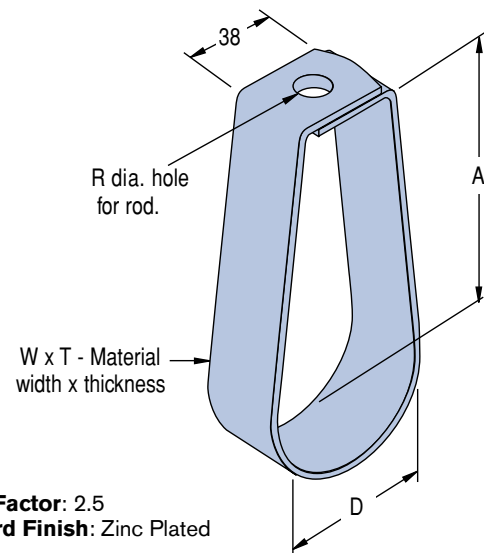
Ø10 hole for M8 x 30 screw for UN1-013 to UN1-114.  
Ø14 hole for M12 x 30 screw for UN1-152 and UN1-165, screw and nut included.



**Safety Factor: 2.5**  
**Standard Finish: Galvabond**

## UN3 - LIGHT DUTY PEAR HANGER


Part No.	Dimensions				Load Capacity	Mass kg
	D	A	R	W x T		
UN3-27	27	64	12	32 x 1.6	0.88 kN	0.09
UN3-34	34	67	12	32 x 1.6	0.88 kN	0.09
UN3-38	38	70	12	32 x 1.6	0.88 kN	0.10
UN3-43	43	73	12	32 x 1.6	0.88 kN	0.10
UN3-48	48	75	12	32 x 1.6	0.88 kN	0.10
UN3-51	51	77	12	32 x 1.6	0.88 kN	0.10
UN3-60	60	81	12	32 x 1.6	0.88 kN	0.12
UN3-76	76	89	14	32 x 2	1.27 kN	0.18
UN3-89	89	102	14	32 x 2	1.27 kN	0.18
UN3-102	102	108	14	32 x 2	1.27 kN	0.18
UN3-114	114	114	14	32 x 2	1.27 kN	0.19
UN3-140	140	203	14	40 x 3	2.65 kN	0.52
UN3-152	152	210	14	40 x 3	2.65 kN	0.54
UN3-165	165	222	14	40 x 3	2.65 kN	0.58

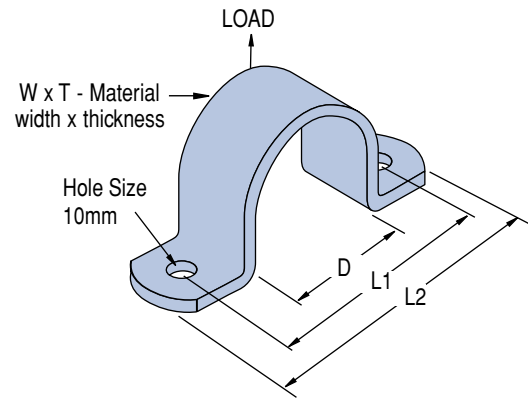


**Safety Factor: 2.5**  
**Standard Finish: Zinc Plated**

# UNISTRUT® PIPE SUPPORTS – LIGHT DUTY


## UN4 - LIGHT DUTY PIPE CLAMPS

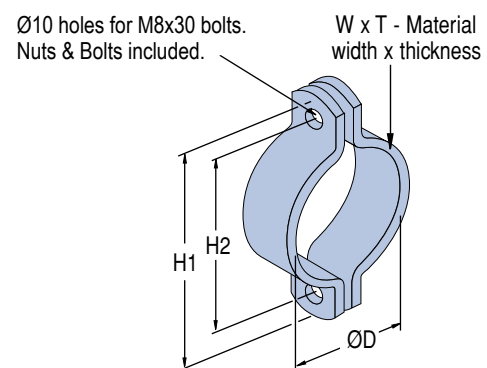
Part No.	D	W x T	L1 mm	L2 mm	kg	
UN4-016	16	25x3	56	80	0.04	50
UN4-019	19	25x3	59	83	0.04	50
UN4-021	21	25x3	61	85	0.05	25
UN4-025	25	25x3	65	89	0.06	25
UN4-027	27	25x3	67	91	0.07	25
UN4-032	32	25x3	72	96	0.07	25
UN4-034	34	25x3	74	98	0.08	25
UN4-038	38	25x3	78	102	0.08	50
UN4-043	43	25x3	83	107	0.08	50
UN4-048	48	25x3	88	112	0.09	50
UN4-051	51	25x3	91	115	0.09	50
UN4-060	60	25x3	100	124	0.12	50
UN4-064	64	25x3	104	128	0.12	50
UN4-073	73	25x3	113	137	0.12	25
UN4-076	76	25x3	116	140	0.14	25
UN4-089	89	25x3	129	153	0.16	25
UN4-095	95	25x3	135	159	0.17	25
UN4-102	102	25x3	142	166	0.18	25
UN4-114	114	25x3	154	178	0.18	30
UN4-127	127	25x3	167	191	0.20	30
UN4-140	140	25x3	180	204	0.20	30
UN4-152	152	25x3	192	216	0.20	30
UN4-165	165	25x3	205	229	0.24	30



**Working Load:** 0.75 kN  
**Safety Factor:** 2.5  
**Standard Finish:** Galvanised

## UN6 - LIGHT DUTY, TWO-PIECE PIPE CLAMPS

Part No.	ØD	W x T	H1 mm	H2 mm	kg	
UN6-019	19	25x3	83	59	0.10	25
UN6-021	21	25x3	85	61	0.10	25
UN6-025	25	25x3	89	65	0.11	25
UN6-027	27	25x3	91	67	0.11	25
UN6-032	32	25x3	96	72	0.14	25
UN6-034	34	25x3	98	74	0.14	25
UN6-038	38	25x3	102	78	0.15	25
UN6-043	43	25x3	107	83	0.15	25
UN6-048	48	25x3	112	88	0.15	25
UN6-051	51	25x3	115	91	0.15	25
UN6-060	60	25x3	124	100	0.15	25
UN6-064	64	25x3	128	104	0.19	25
UN6-073	73	25x3	137	113	0.19	25
UN6-076	76	25x3	140	116	0.19	25
UN6-089	89	25x3	153	129	0.21	25
UN6-102	102	25x3	166	142	0.23	25
UN6-114	114	25x3	178	154	0.26	25
UN6-127	127	25x3	191	167	0.28	25
UN6-140	140	25x3	204	180	0.31	25
UN6-152	152	25x3	216	192	0.33	25
UN6-165	165	25x3	229	205	0.37	25



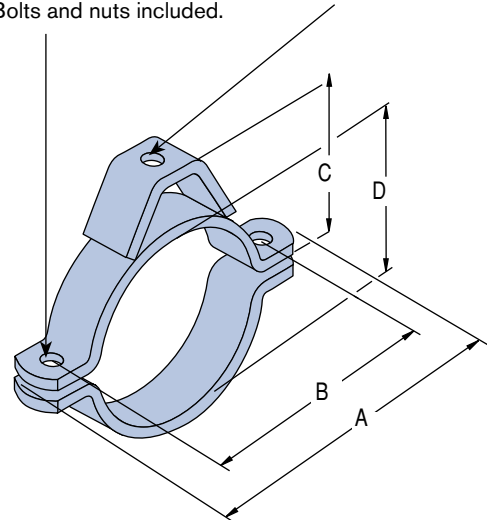
**Working Load:** 2.88 kN  
**Safety Factor:** 2.5  
**Standard Finish:** Galvanised

# UNISTRUT® PIPE SUPPORTS – LIGHT DUTY

## UN8 - LIGHT DUTY TWO-PIECE PIPE CLAMPS

Part No.	Dimensions				Kg
	D	A	B	C	
UN8-019	19	83	59	47	0.17
UN8-021	21	85	61	47	0.17
UN8-025	25	89	65	47	0.19
UN8-027	27	91	67	47	0.19
UN8-032	32	96	72	52	0.19
UN8-034	34	98	74	54	0.20
UN8-038	38	102	78	56	0.21
UN8-043	43	107	83	60	0.21
UN8-048	48	112	88	63	0.21
UN8-051	51	115	91	65	0.21
UN8-060	60	124	100	70	0.21
UN8-064	64	128	104	72	0.26
UN8-073	73	137	113	77	0.27
UN8-076	76	140	116	79	0.28
UN8-089	89	153	129	86	0.30
UN8-102	102	166	142	93	0.31
UN8-114	114	178	154	99	0.34
UN8-127	127	191	167	105	0.37
UN8-140	140	204	180	112	0.38
UN8-152	152	216	192	118	0.41
UN8-165	165	229	203	125	0.41

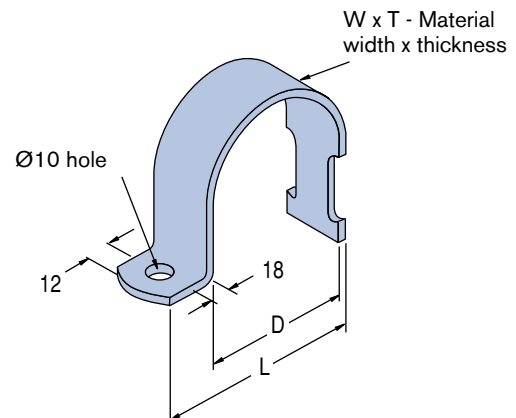
Dia. 10 hole for M8 x 30 bolts.  
Bolts and nuts included.



**Material:** 20 x 3  
**Working Load:** 1.32 kN  
**Safety Factor:** 2.5  
**Standard Finish:** Galvanised

## UN10 – LIGHT DUTY SINGLE BOLT STRUT CLAMP

Part No.	D mm	L mm	W x T	Kg
UN10-016	16	51	32 x 1.6	0.02
UN10-017	17	52	32 x 1.6	0.02
UN10-021	21	56	32 x 1.6	0.03
UN10-025	25	60	32 x 1.6	0.04
UN10-027	27	62	32 x 1.6	0.04
UN10-032	32	67	32 x 1.6	0.04
UN10-034	34	69	32 x 1.6	0.05
UN10-038	38	73	32 x 1.6	0.05
UN10-043	43	78	32 x 1.6	0.06
UN10-048	48	83	32 x 1.6	0.06
UN10-051	51	86	32 x 1.6	0.07
UN10-060	60	95	32 x 1.6	0.14
UN10-064	64	99	32 x 1.6	0.15
UN10-076	76	111	32 x 1.6	0.18
UN10-089	89	124	32 x 1.6	0.18
UN10-102	102	137	32 x 1.6	0.20
UN10-114	114	149	32 x 2.4	0.24
UN10-140	140	175	32 x 2.4	0.28
UN10-152	152	187	32 x 2.4	0.31
UN10-165	165	200	32 x 2.4	0.34

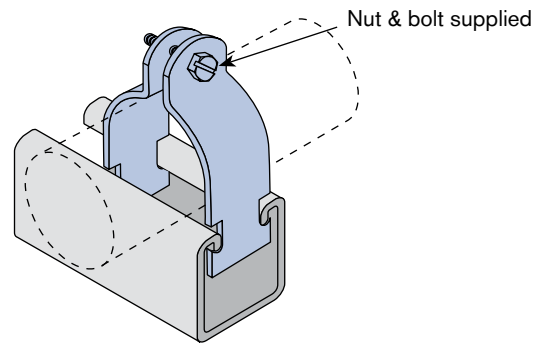


**Standard Finish:** Zinc Plated

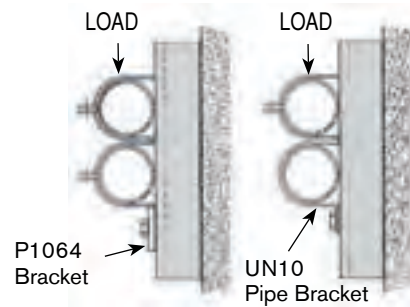
# UNISTRUT® PIPE SUPPORTS – LIGHT DUTY

## P2024 PIPE SUPPORTS

Part No GB	D mm	kg	Part No GB	D mm	kg
P2024	8	0.04	P2051	92	0.25
P2025	11	0.04	P2052	95	0.26
P2026	14	0.04	P2053	98	0.27
P2027	17	0.05	P2054	102	0.28
P2028	19	0.05	P2055	105	0.28
P2029	22	0.05	P2056	108	0.29
P2030	25	0.06	P2057	111	0.30
P2031	29	0.07	P2058	114	0.30
P2032	32	0.07	P2059	117	0.32
P2033	35	0.08	P2060	121	0.33
P2034	38	0.08	P2062	127	0.34
P2035	43	0.09	P2064	133	0.35
P2036	44	0.11	P2066	140	0.36
P2037	49	0.13	P2068	146	0.41
P2038	51	0.14	P2070	152	0.43
P2039	54	0.15	P2070-62	159	0.45
P2040	57	0.15	P2070-64	165	0.46
P2041	60	0.15	P2070-66	171	0.47
P2042	64	0.16	P2070-70	178	0.49
P2043	67	0.17	P2070-74	191	0.53
P2044	70	0.17	P2070-80	203	0.56
P2045	73	0.18	P2070-84	216	0.59
P2046	76	0.19	P2070-225	225	0.62
P2047	79	0.20	P2070-230	230	0.63
P2048	83	0.21	P2070-240	240	0.65
P2049	86	0.21	P2070-250	250	0.68
P2050	90	0.21	P2070-260	260	0.71



Also available in Hot Dipped Galvanised Finish.

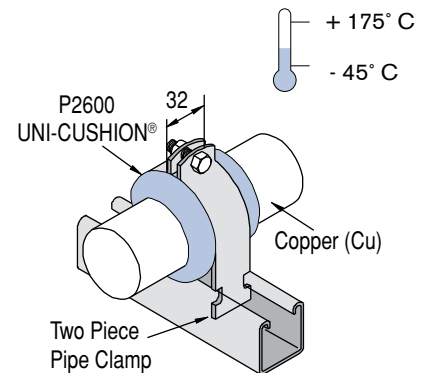


**NOTE:** When used in the application illustrated, it is recommended that the lower clamp be supported against possible slippage. Where P2024 series clamps are restraining pipework subject to vibration, the use of P2600 UNI-CUSHION® is recommended.

**Standard Finish:** Zinc Plated

## P2600 UNI-CUSHION® AND CUTTING GUIDE

O.D. Size mm	Use with Clamp	UNI-CUSHION® Length mm	O.D. Size mm	Use with Clamp	UNI-CUSHION® Length in mm	O.D. Size mm	Use with Clamp	UNI-CUSHION® Length mm
6.4	P2025	22.2	57.2	P2041	184.2	108	P2057	330.2
9.5	P2026	27	60.3	P2042	190.5	111.1	P2058	342.9
12.7	P2027	38.1	63.5	P2043	203.2	114.3	P2059	355.6
15.9	P2028	54	66.7	P2044	209.6	117.5	P2060	362
19.1	P2029	57.2	69.9	P2045	222.3	123.8	P2062	381
22.2	P2030	76.2	73	P2046	235	130.2	P2064	406.4
25.4	P2031	82.6	76.2	P2047	241.3	136.5	P2066	419.1
28.6	P2032	92.1	79.4	P2048	254	142.9	P2068	444.5
31.8	P2033	101.6	82.6	P2049	266.7	149.2	P2070	463.6
34.9	P2034	114.3	85.7	P2050	273.1	155.6	P2070-62	482.6
38.1	P2035	123.8	88.9	P2051	279.4	161.9	P2070-64	501.7
41.3	P2036	133.4	92.1	P2052	285.8	168.3	P2070-66	520.7
44.5	P2037	139.7	95.3	P2053	292.1	174.6	P2070-70	539.8
47.6	P2038	152.4	98.4	P2054	298.5	187.3	P2070-74	577.9
50.8	P2039	165.1	101.6	P2055	304.8	200	P2070-80	622.3
54	P2040	171.5	104.8	P2056	317.5			



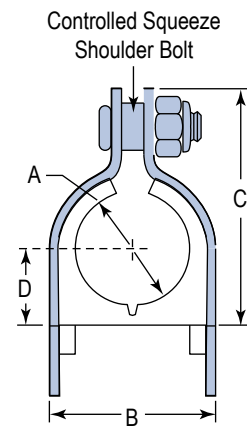
Part No.	W mm	T mm	Dispenser Pack	kg
P2600	32	2.0	7.6m	1.7

- Shock absorption
- Protection from corrosion and abrasion
- Allowance for expansion and contraction
- Sound and vibration isolation
- Stability in use from -45°C to +175°C
- Flexible elastomer material
- Packaged in handy 7.6m dispenser pack

# UNISTRUT® PIPE SUPPORTS – LIGHT DUTY

## CUSH-A-CLAMP®

Part No.	TUBE SERIES ASSEMBLY		Dimensions				Kg /100
	Copper & Steel Tube OD Size	Copper Water Pipe (Nominal)	"A"	"B"	"C"	"D"	
			(mm)	(mm)	(mm)	(mm)	
004T008	1/4"		6.4	15.7	24.9	6.9	4.5
006T010	3/8"	1/4"	9.4	20.8	28.7	8.4	5.0
008T012	1/2"	3/8"	12.7	23.9	34.0	10.2	5.9
010T014	5/8"	1/2"	15.7	26.9	39.1	11.7	6.4
012T016	3/4"	5/8"	19.1	30.5	42.7	13.2	6.4
014T018	7/8"	3/4"	22.1	33.3	46.2	14.7	6.8
016T020	1"		25.4	36.6	49.5	16.5	7.7
018T022	1-1/8"	1"	28.4	39.9	52.8	17.8	8.2
020T024	1-1/4"		31.8	43.2	56.1	19.6	8.2
022T026	1-3/8"	1-1/4"	34.8	46.2	59.4	21.1	9.1
024N028	1-1/2"		38.1	49.5	62.7	22.9	15.0
026N030	1-5/8"	1-1/2"	41.1	52.6	66.0	24.4	15.9
028N032	1-3/4"		44.5	55.9	69.3	25.9	16.8
030N034	1-7/8"		47.5	58.9	72.6	27.7	17.7
032N036	2"		50.8	62.2	77.2	29.2	20.9
034N040	2-1/8"		53.8	65.3	82.0	32.3	21.3
038N044	2-3/8"		60.2	71.6	93.2	35.8	22.2
040N046	2-1/2"		63.5	74.7	96.3	37.1	23.1
042N048	2-5/8"		66.5	78.0	99.6	38.9	24.9
046N052	2-7/8"		72.9	84.3	105.9	42.2	25.9
050N054	3"		76.2	90.7	112.3	45.2	27.2
050N056	3-1/8"		79.2	90.7	112.3	45.2	27.2
053N060	3-5/16"		84.1	100.6	120.7	48.3	28.1
056N062	3-1/2"		88.9	100.3	121.7	50.0	24.9
058N064	3-5/8"		91.9	106.7	126.7	51.6	31.8
064N072	4"		101.6	113.0	137.7	57.9	39.9
066N074	4-1/8"		104.6	116.1	140.7	59.4	42.6
069N076	4-5/16"		110.2	126.0	148.3	61.0	45.4
072N080	4-1/2"		114.3	125.7	150.4	64.3	49.9
082N090	5-1/8"		130.0	141.5	166.1	72.1	56.7
098N106	6-1/8"		155.4	166.9	191.5	84.8	59.0



Part No.	PIPE SERIES ASSEMBLY		Dimensions				Kg /100
	Nominal Pipe Size	"A"	"B"	"C"	"D"		
		(mm)	(mm)	(mm)	(mm)		
009N012	1/4"	13.7	24.9	34.0	10.9	5.9	
011N014	3/8"	17.0	28.7	39.1	12.4	6.4	
014N018	1/2"	21.3	32.8	46.2	14.7	6.8	
017N022	3/4"	26.7	38.1	49.5	17.8	7.7	
021N026	1"	33.3	44.7	59.4	20.6	8.6	
027N032	1-1/4"	42.2	55.1	69.3	25.1	15.9	
030N034	1-1/2"	48.3	59.7	72.6	27.7	17.7	
038N044	2"	60.2	71.6	93.2	35.8	22.2	
046N052	2-1/2"	72.9	84.3	105.9	42.2	25.9	
056N062	3"	88.9	100.3	121.7	50.0	24.9	
064N072	3-1/2"	101.6	113.0	137.7	57.9	39.9	
072N080	4"	114.3	125.7	150.4	64.3	49.9	

CUSH-A-CLAMP® is a Register Trademark of ZSI- Foster

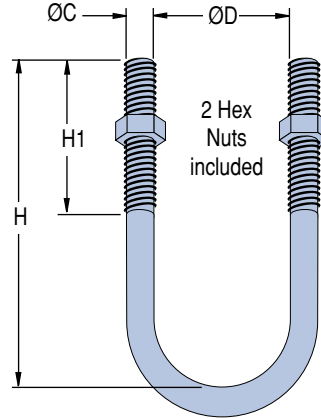


**UNISTRUT®**

**PIPE SUPPORTS – MEDIUM DUTY**


**UN14 – “U” BOLTS**

Part No	ØD	H mm	H1 mm	ØC mm	kg
UN14-021	21	65	50	10	0.09
UN14-027	27	77	50	10	0.10
UN14-034	34	85	50	10	0.12
UN14-043	43	93	50	10	0.13
UN14-048	48	100	50	10	0.14
UN14-051	51	103	50	10	0.14
UN14-060	60	110	50	10	0.16
UN14-076	76	127	50	12	0.28
UN14-089	89	140	50	12	0.30
UN14-102	102	152	50	12	0.35
UN14-114	114	165	50	12	0.38
UN14-140	140	190	50	12	0.40
UN14-165	165	215	50	12	0.44
UN14-168	168	220	50	12	0.48
UN14-219	219	295	75	16	1.13
UN14-273	273	370	100	20	2.20
UN14-324	324	420	100	20	2.52
UN14-356	356	455	100	20	2.74
UN14-406	406	505	100	20	3.05
UN14-457	457	555	100	24	4.87
UN14-508	508	605	100	24	5.32
UN14-610	610	710	100	24	6.28

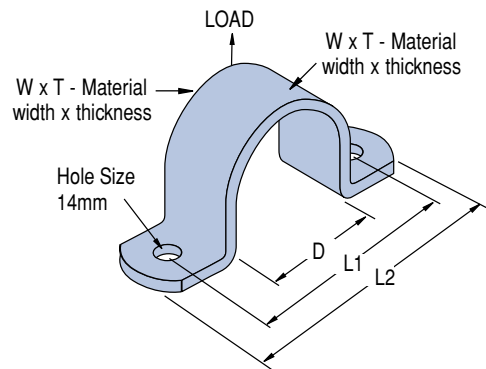


**Standard Finish:** Galvanised

**UN15 – MEDIUM DUTY SADDLE CLAMP**

Part No.	D	L1	L2	WxT	Working Load	kg	
UN15-021	21	75	115	40x5	2.46kN	0.14	25
UN15-027	27	81	121	40x5	2.46kN	0.20	25
UN15-034	34	88	128	40x5	2.46kN	0.28	25
UN15-043	43	97	137	40x5	2.46kN	0.34	25
UN15-048	48	102	142	40x5	2.46kN	0.34	25
UN15-051	51	105	145	40x5	2.46kN	0.34	25
UN15-060	60	114	154	40x5	2.46kN	0.40	25
UN15-076	76	130	170	40x5	2.46kN	0.46	20
UN15-089	89	143	183	40x5	2.46kN	0.54	25
UN15-102	102	156	196	40x5	2.46kN	0.58	20
UN15-114	114	170	210	40x6	3.57kN	0.65	20
UN15-140	140	196	236	40x6	3.57kN	0.75	10
UN15-152	152	208	248	50x6	4.44kN	1.17	10
UN15-165	165	221	261	50x6	4.44kN	1.25	10
UN15-168	168	224	264	50x6	4.44kN	1.27	10
UN15-203	203	259	299	50x6	4.44kN	1.48	10
UN15-219	219	275	315	50x6	4.44kN	1.58	5

**Safety Factor:** 2.5




**Safety Factor:** 2.5

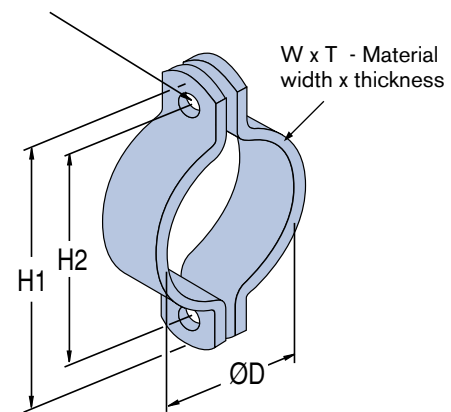
**Standard Finish:** Galvanised

# UNISTRUT® PIPE SUPPORTS – MEDIUM DUTY

## UN16 – MEDIUM DUTY, TWO-PIECE PIPE CLAMP

Part No.	ØD	H1	H2	WxT	kg	
UN16-060	60	154	114	40x5	0.72	10
UN16-076	76	170	130	40x5	0.84	10
UN16-089	89	183	143	40x5	1.02	10
UN16-102	102	196	156	40x5	1.12	10
UN16-114	114	210	170	40x6	1.17	10
UN16-127	127	221	181	40x6	1.25	10
UN16-140	140	234	194	40x6	1.31	10
UN16-152	152	246	206	40x6	1.38	10
UN16-165	165	259	219	40x6	1.46	5
UN16-178	178	272	232	40x6	1.54	5
UN16-190	190	284	244	40x6	1.64	5
UN16-203	203	297	257	40x6	1.69	5
UN16-219	219	313	273	40x6	1.78	5
UN16-230	230	324	284	40x6	1.84	5
UN16-240	240	334	294	40x6	1.92	5
UN16-250	250	344	304	40x6	2.00	5
UN16-273	273	367	327	40x6	2.18	4
UN16-324	324	418	378	40x6	2.59	4

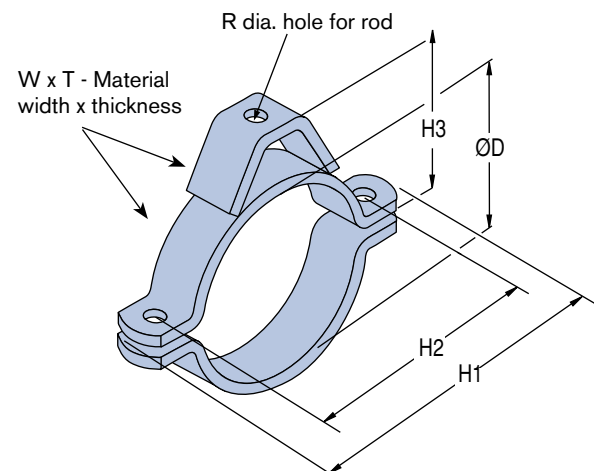
Ø14 holes for M12x45 bolts.  
Nuts & Bolts included.



**Working Load:** 7.20 kN  
**Safety Factor:** 2.5  
**Standard Finish:** Galvanised

## UN18 – MEDIUM DUTY, TWO-PIECE PIPE CLAMPS

Part No.	ØD	H1	H2	H3	R	WxT	Working Load	kg
UN18-060	60	154	114	75	12	40x5	1.77kN	0.72
UN18-076	76	170	130	88	14	40x5	3.53kN	0.84
UN18-089	89	183	143	99	14	40x5	3.53kN	1.02
UN18-102	102	196	156	108	14	40x5	3.53kN	1.12
UN18-114	114	210	170	116	14	40x6	3.53kN	1.17
UN18-127	127	221	181	124	18	40x6	4.51kN	1.25
UN18-140	140	234	194	132	18	40x6	4.51kN	1.31
UN18-152	152	246	206	139	18	40x6	4.51kN	1.38
UN18-165	165	259	219	146	18	40x6	4.51kN	1.46
UN18-178	178	272	232	153	18	40x6	4.51kN	1.54
UN18-203	203	297	257	167	18	40x6	4.51kN	1.69
UN18-219	219	313	273	175	18	40x6	4.51kN	1.78
UN18-230	230	324	284	181	18	40x6	4.51kN	1.84



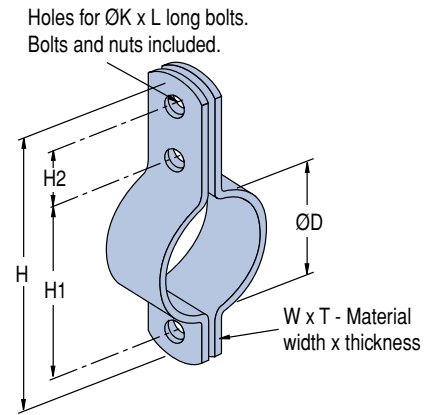
All sizes have a 14mm dia. hole to suit M12 x 45 bolts.  
Nuts and bolts included.

**Safety Factor:** 2.5  
**Standard Finish:** Galvanised

# PIPE SUPPORTS – MEDIUM DUTY

## UN20 – MEDIUM DUTY, THREE BOLT PIPE CLAMP

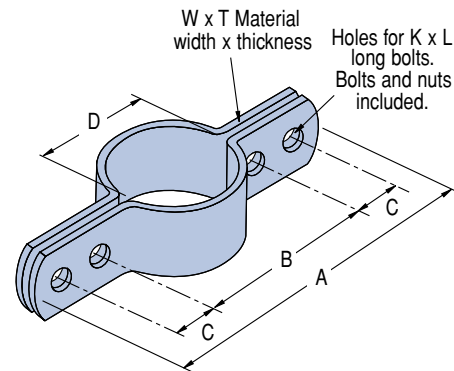
Part No	ØD	H	H1	H2	W x T	ØK x L	Working Load	kg
UN20-021	21	159	71	48	25x5	M10x30	5.02kN	0.34
UN20-027	27	165	77	48	25x5	M10x30	5.02kN	0.36
UN20-034	34	176	88	48	40x6	M12x45	7.24kN	0.58
UN20-043	43	185	97	48	40x6	M12x45	7.24kN	0.62
UN20-048	48	190	102	48	40x6	M12x45	7.24kN	0.64
UN20-060	60	210	122	48	50x6	M16x50	11.52kN	1.57
UN20-076	76	226	138	48	50x6	M16x50	11.52kN	1.69
UN20-089	89	239	151	48	50x6	M16x50	11.52kN	1.79
UN20-114	114	339	200	75	75x10	M20x60	20.10kN	5.17
UN20-140	140	365	226	75	75x10	M20x60	20.10kN	5.65
UN20-165	165	390	251	75	75x10	M20x60	20.10kN	6.13
UN20-219	219	444	305	75	75x10	M24x60	28.80kN	7.83
UN20-273	273	498	359	75	75x10	M24x60	28.80kN	8.83
UN20-324	324	549	410	75	75x10	M24x60	28.80kN	9.77
UN20-356	356	628	464	100	75x16	M30x80	45.18kN	17.04
UN20-406	406	678	514	100	75x16	M30x80	45.18kN	18.5
UN20-457	457	763	587	100	75x20	M36x100	45.18kN	24.95
UN20-508	508	814	638	100	75x20	M36x100	45.18kN	26.83
UN20-610	610	916	740	100	75x20	M36x100	45.18kN	30.61



**Safety Factor: 2.5**  
**Standard Finish: Galvanised**

## UN21 - MEDIUM DUTY VERTICAL PIPE CLAMP

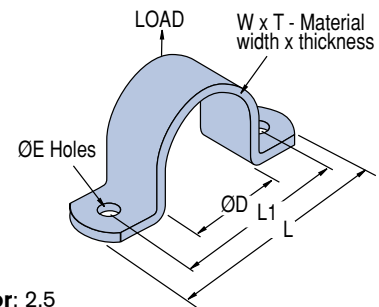
Part No.	Dimensions						Load Capacity	Mass kg
	D	A	B	C	W x T	K x L		
UN21-21	21	207	71	48	32 x 5	M10 x 35	1.11kN	0.75
UN21-27	27	213	77	48	32 x 5	M10 x 35	1.11kN	0.77
UN21-34	34	220	84	48	32 x 5	M10 x 35	1.11kN	0.80
UN21-43	43	229	93	48	32 x 5	M10 x 35	1.11kN	0.84
UN21-48	48	238	102	48	40 x 6	M12 x 40	1.80kN	1.19
UN21-60	60	250	114	48	40 x 6	M12 x 40	1.80kN	1.26
UN21-76	76	266	130	48	50 x 6	M12 x 40	2.22kN	1.63
UN21-89	89	278	143	48	50 x 6	M12 x 40	2.22kN	1.73
UN21-114	114	304	168	48	50 x 6	M12 x 40	2.22kN	1.91
UN21-140	140	330	194	48	50 x 6	M12 x 40	2.22kN	2.11
UN21-165	165	468	254	75	75 x 10	M16 x 60	9.71kN	6.72
UN21-219	219	519	305	75	75 x 10	M16 x 60	9.71kN	7.65
UN21-273	273	573	359	75	75 x 10	M16 x 60	9.71kN	8.65
UN21-324	324	624	410	75	75 x 10	M16 x 60	10.79kN	9.83
UN21-356	356	662	448	75	75 x 10	M16 x 60	10.79kN	10.17
UN21-406	406	712	498	75	90 x 12	M20 x 75	11.77kN	15.87
UN21-457	457	779	565	75	90 x 12	M20 x 75	11.77kN	17.23
UN21-508	508	830	616	75	90 x 12	M20 x 75	11.77kN	18.58



**Safety Factor: 2.5**  
**Standard Finish: Galvanised**

## UN30 – HEAVY DUTY, SADDLE CLAMP

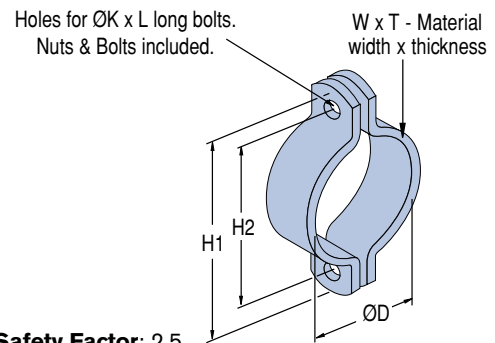
Part No	ØD	L1	L	ØE	W x T	Working Load	kg
UN30-168	168	260	324	22	75x10	10.87kN	3.22
UN30-219	219	310	375	22	75x10	10.87kN	4.21
UN30-273	273	364	428	22	75x10	10.87kN	4.81
UN30-324	324	415	479	22	75x10	10.87kN	5.80
UN30-356	356	447	511	22	75x10	10.87kN	6.10
UN30-406	406	497	561	26	90x12	18.78kN	9.90
UN30-457	457	548	612	26	90x12	18.78kN	11.00
UN30-508	508	600	663	26	90x12	18.78kN	12.12



**Safety Factor: 2.5**  
**Standard Finish: Galvanised**

## UN31 – HEAVY DUTY, TWO-PIECE PIPE CLAMP

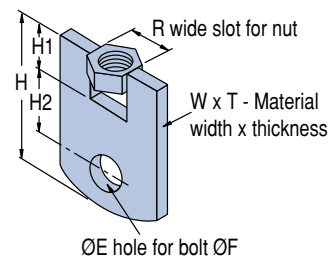
Part No	ØD	H1	H2	W x T	ØK x L	Working Load	kg
UN31-168	168	318	254	75x10	M20 x 60	20.10kN	5.00
UN31-219	219	369	305	75x10	M20 x 60	20.10kN	6.00
UN31-273	273	423	359	75x10	M20 x 60	20.10kN	7.00
UN31-324	324	474	410	75x10	M20 x 60	20.10kN	8.00
UN31-356	356	512	448	75x12	M24 x 75	28.93kN	11.00
UN31-406	406	562	498	75x12	M24 x 75	28.93kN	12.00
UN31-457	457	629	565	75x16	M30 x 90	45.18kN	19.00
UN31-508	508	680	616	75x16	M30 x 90	45.18kN	20.00
UN31-610	610	782	718	75x16	M30 x 90	45.18kN	23.00



**Safety Factor: 2.5**  
**Standard Finish: Galvanised**

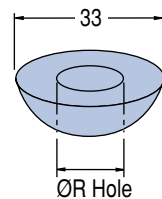
## UN35 – EYE NUTS [HG]

Part No	H	H1	H2	ØE	ØF	R	W x T	Working Load	kg
UN35-12-M10	70	20	30	14	12	18	40 x 6	3.60 kN	0.13
UN35-16-M12	80	25	30	18	16	20	75 x 10	5.80 kN	0.47
UN35-20-M16	90	30	35	22	20	25	90 x 12	9.72 kN	0.76
UN35-24-M20	90	30	35	26	24	31	90 x 12	14.48 kN	0.76
UN35-30-M24	120	35	50	32	30	37	100 x 20	21.84 kN	1.88
UN35-36-M30	140	40	60	38	36	47	130 x 20	32.56 kN	2.86

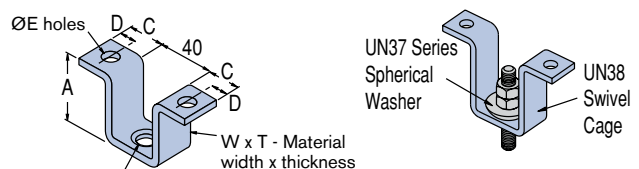


## UN37 – SPHERICAL WASHER FOR UN38 [M]

Part No	ØR	kg	Box
UN37-06	08	0.10	100
UN37-10	12	0.09	100
UN37-12	14	0.09	100
UN37-16	18	0.07	50



## UN38 – SWIVEL CAGE [HG]



ØR hole chamfered  
120° x 3 deep max


Typical Application

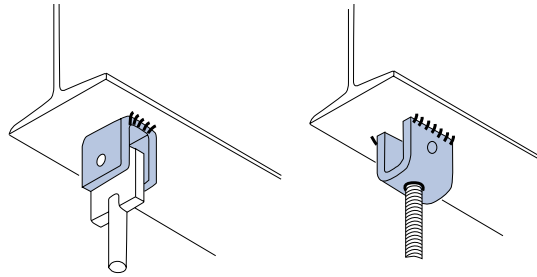
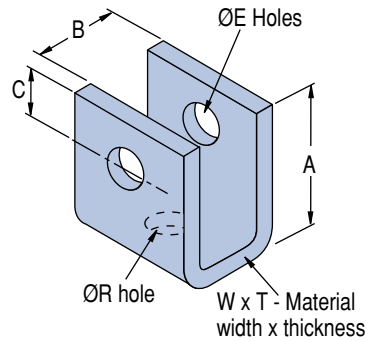
Part No	A	C	D	ØE	ØR	W x T	kg	Box
UN38-06	65	31	12	10	08	25x5	0.20	25
UN38-10	65	31	12	10	12	25x5	0.20	25
UN38-12	65	47	20	14	14	40x6	0.35	20
UN38-16	100	47	20	14	18	50x6	0.52	10

# UNISTRUT®

## PIPE SUPPORTS – ACCESSORIES AND BEAM ATTACHMENTS


### UN39 – WELD ON BRACKET [PL]

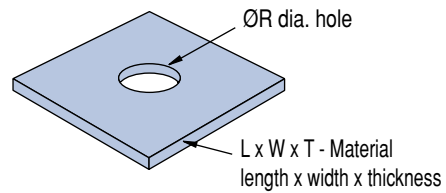
Part No	A	B	C	ØE	ØR	W x T	Working Load	kg	
UN39-10	75	32	22	14	12	75x10	1.04kN	1.15	10
UN39-12	75	32	22	18	14	75x10	1.76kN	1.14	10
UN39-16	75	40	25	22	18	75x10	2.56kN	1.16	10
UN39-20	90	40	28	26	22	75x10	4.32kN	1.30	10



Typical Applications

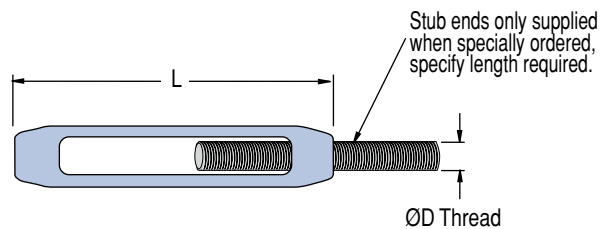
### UN40 – SQUARE WASHER [HG]

Part No.	ØR	Dimensions L x W x T	kg /100	
UN40-12	18	75 x 75 x 6	26.0	100
UN40-16	22	75 x 75 x 6	25.0	100
UN40-20	26	75 x 75 x 10	41.0	100



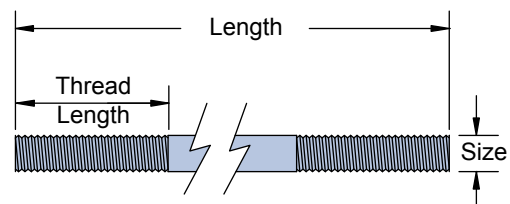
### UN42 – TURNBUCKLES [HG]

Part No	L	ØD	Working Load	kg
UN42-10	160	M10	2.45 kN	0.2
UN42-12	200	M12	4.41 kN	0.3
UN42-16	200	M16	7.45 kN	0.5
UN42-20	215	M20	10.78 kN	0.7



### UN43 – MACHINE THREADED ROD

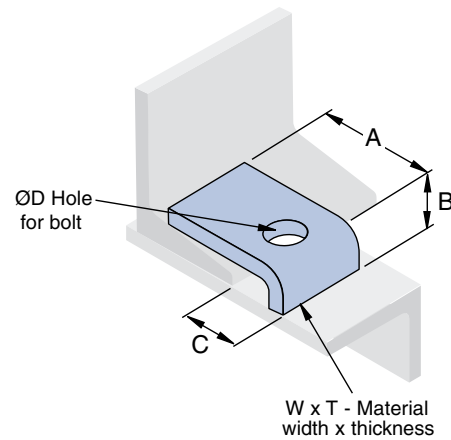
**When ordering please specify:** Size, Length, Thread one end or both ends, Thread length  
**Standard Finish:** Hot Galvanised and Plain  
**Sizes Available:** M10, M12, M16, M20, M24, M30, M36



## UN44 – BEAM CLIP

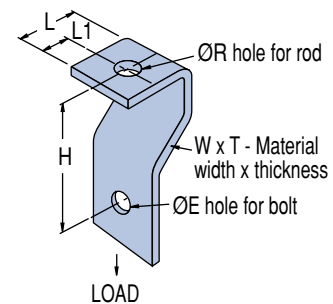
Part No.	ØD	A	B	C	W x T	kg
UN44-16	18	65	25	32	50x10	0.3
UN44-20	22	75	30	40	75x12	0.5
UN44-24	26	80	30	45	75x12	0.5

**Note:**  
**Standard Finish:** Hot Dipped Galvanised



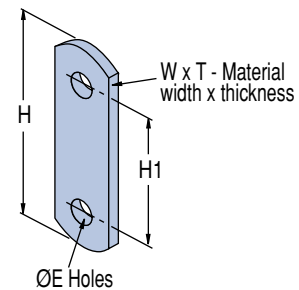
## UNCL – CLEVIS HANGER [HG]

Part No	L	L1	H	ØE	ØR	WxT	Working Load	kg
UNCL-10	35	15	70	10	12	25 x 5	1.75 kN	0.08
UNCL-12	45	20	75	14	14	40 x 5	2.17 kN	0.20
UNCL-16	48	20	100	14	18	50 x 5	2.55 kN	0.32
UNCL-20	62	32	112	22	22	75 x 10	9.08 kN	1.08



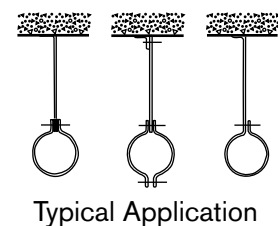
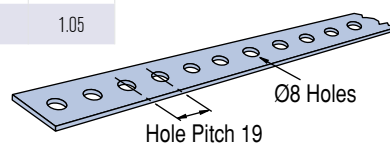
## UNLP – LINK PLATE [HG]

Part No	H	H1	ØE	WxT	kg
UNLP08	64	36	10	25 x 3	0.03
UNLP10	64	36	12	25 x 5	0.05
UNLP12	120	80	14	40 x 6	0.23
UNLP16	120	80	18	50 x 6	0.28
UNLP20	190	126	22	75 x 10	1.11



## UHS – HANGER STRAP [GB/ZP]

Part No	Finish	W x T	ØR	Length	Bundle	kg /3m
UHS25	ZP	25 x 3.0	8	3 METRES	10	1.40
UHS32	GB	32 x 1.6	8	3 METRES	10	1.05



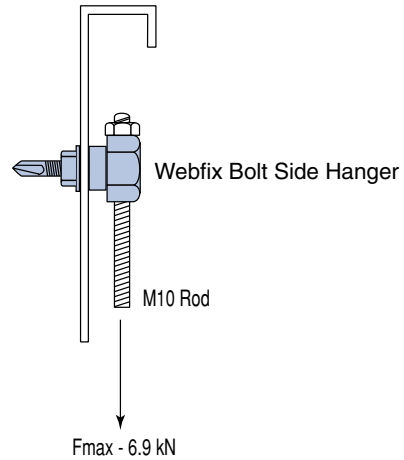
## 4029706 – WEBFIX BOLT SIDE HANGER

The one piece side hanging Webfix Bolt Side Hanger is attached through the side (web) of the purlin and ensures that the hanging tension load is transferred through the web and not onto the purlin lip.

The 10mm internal thread easily accommodates the matching diameter threaded rod and can be used to support cable tray.

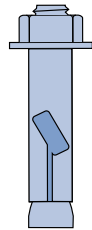
Webfix Vertical bolts and fixing sockets for concrete and wood / metal are available on request.

**Size:** 1/4"-20 X 25 With Nuts



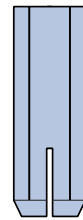
## DYNABOLTS

Part No.	Description	Finish
HBD084	HBD084 DYNA BOLT 8 X 40	ZP
HBD104	HBD104 DYNA BOLT 10 X 40	ZP
HBD105	HBD105 DYNA BOLT 10 X 50 ZA	ZA
HBD106	HBD106 DYNA BOLT 10 X 60	ZP
HBD1260	HBD1260 DYNA BOLT 12 X 60	ZP



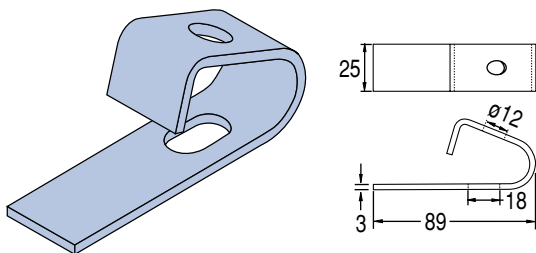
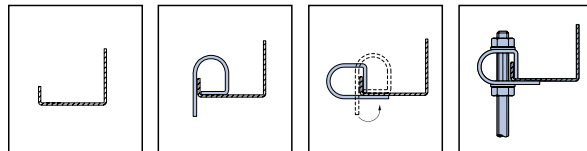
## DROP IN ANCHOR

Part No.	Size	Finish	Mass kg/100
HAD06	M6 X 25	ZP	0.7
HAD08	M8 X 30	ZP	1.2
HAD10	M10 X 40	ZP	2.3
HAD12	M12 X 50	ZP	4.5



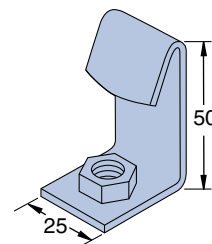
## Z10 - Z PURLIN CLAMP [GB]

Part No.	kg /100	Box
Z10	0.085	100

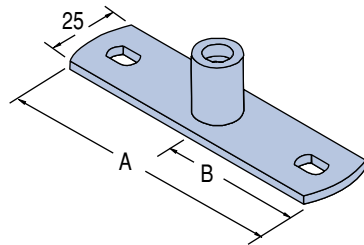


## PF2010 PURLIN CLIP [ZP]

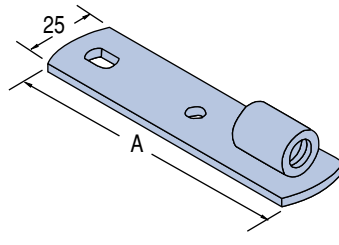
Part No	Description	Finish
PF2010	PF2010 PURLIN CLIP M10 25W 3T ZP	ZP



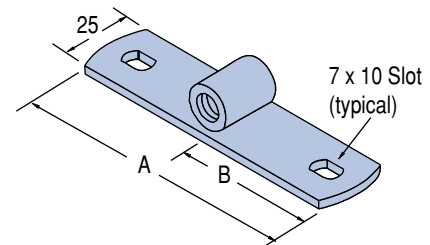
## RH1200 – ROD HANGER MOUNTING PLATE



**RH1200A**  
Central Mounting Plate



**RH1200B**  
Vertical Mounting Plate

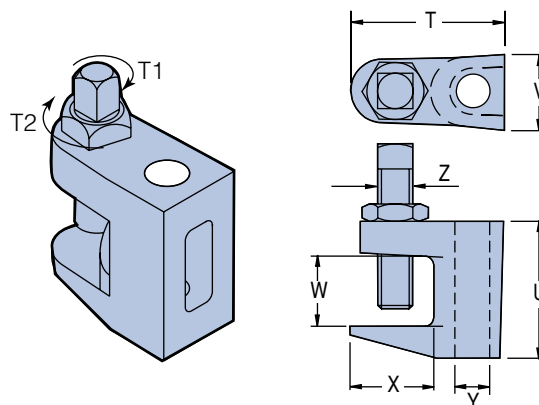


**RH1200C**  
Horizontal Mounting Plate

Part No	Description	Thread Size	Dim "A"	Dim "B"
RH1200A-M8	RH1200A-M8 ROD HANGER CENTRAL MOUNT ZP	M8	75mm	37.5mm
RH1200A-M10	RH1200A-M10 ROD HANGER CENTRAL MOUNT ZP	M10	100mm	50mm
RH1200A-M12	RH1200A-M12 ROD HANGER CENTRAL MOUNT ZP	M12	100mm	50mm
RH1200B-M8	RH1200B M8 ROD HANGER VERTICAL MOUNT ZP	M8	75mm	-
RH1200B-M10	RH1200B M10 ROD HANGER VERTICAL MOUNT ZP	M10	100mm	-
RH1200B-M12	RH1200B M12 ROD HANGER VERTICAL MOUNT ZP	M12	100mm	-
RH1200C-M8	RH1200C M8 ROD HANGER HORIZONTAL MOUNT ZP	M8	75mm	37.5mm
RH1200C-M10	RH1200C M10 ROD HANGER HORIZONTAL MOUNT ZP	M10	100mm	50mm
RH1200C-M12	RH1200C M12 ROD HANGER HORIZONTAL MOUNT ZP	M12	100mm	50mm

Other finishes available. Made to order and minimum order quantities may apply.

## FL – BEAM CLAMP [ZP]



Part No.	F <sub>Max</sub> Kn	T <sub>1</sub> Nm	T <sub>2</sub> Nm	T mm	U mm	V mm	W mm	X mm	Y mm	Z mm	
FL210D	2.4	8	22	45	40	22	19	22	11	10	50
FL312D	3.1	8	22	50	46	25	23	28	13	10	50
FL412D	3.1	8	22	53	51	26	28	27	13	10	50

The simplest, quickest and most cost-effective method of suspending building services from steel beams and suitable for use with parallel or tapered flange beams, the FL can be supplied with the back hole drilled to accept threaded rod. The FL uses a grade 8.8 cup point setscrew to provide a maximum bite into steelwork and maximum load performance.



# UNISTRUT® PIPE WEIGHTS

## COPPER TUBE

Nom. Size	Actual Size O.D.	Mass of Pipe Kg/m	Mass of Pipe filled with water kg/m
15	12.7 x 0.9	0.30	0.39
18	15.9 x 1.0	0.43	0.58
20	19.1 x 1.0	0.52	0.75
25	25.4 x 1.2	0.83	1.25
32	31.8 x 1.2	1.05	1.72
40	38.1 x 1.2	1.27	2.27
45	44.5 x 1.2	1.48	2.87
50	50.8 x 1.2	1.70	3.57
65	63.5 x 1.2	2.14	5.07
80	76.2 x 1.6	3.42	7.60
90	88.9 x 1.6	4.00	9.76
100	101.6 x 1.6	4.58	12.18
125	127.0 x 1.6	5.74	17.77
150	152.4 x 2.0	8.58	25.86
175	177.8 x 2.0	10.03	33.74
200	203.2 x 2.0	11.48	42.63

## PRESSURE PIPE – ANSI SCH 80 – API XS (UP TO 200 NS)

Nom. Size	Actual Size O.D x Wall.	Mass of Pipe Kg/m	Mass of Pipe filled with water kg/m
8	13.7 x 3.02	0.80	0.85
10	17.1 x 3.20	1.10	1.19
15	21.3 x 3.73	1.62	1.77
20	26.7 x 3.91	2.20	2.47
25	33.4 x 4.55	3.24	3.69
32	42.1 x 4.85	4.47	5.20
40	48.2 x 5.10	5.41	6.55
50	60.3 x 5.54	7.50	9.40
65	73.0 x 7.01	11.41	14.14
80	88.9 x 7.62	15.27	19.40
90	101.6 x 8.10	18.63	24.36
100	114.3 x 8.56	22.32	29.73
125	141.3 x 9.53	30.97	42.69
150	168.3 x 11.00	42.56	59.38
200	219.1 x 12.70	64.50	93.90
250	273.1 x 15.09	95.80	142.10
300	323.8 x 17.49	131.80	197.30
350	355.6 x 19.05	159.20	235.40
400	406.4 x 21.44	203.90	306.60
450	457.2 x 23.88	254.55	386.20
500	508.0 x 26.19	311.17	473.80
600	609.6 x 30.96	442.08	677.40

## PRESSURE PIPE – ANSI SCH 40 – API STD. WT. (UP TO 250 NS)

Nom. Size	Actual Size O.D. x Wall	Mass of Pipe Kg/m	Mass of Pipe filled with water kg/m
8	13.7 x 2.24	0.63	0.69
10	17.1 x 2.31	0.90	1.00
15	21.3 x 2.77	1.27	1.30
20	26.7 x 2.87	1.68	2.00
25	33.4 x 3.38	2.50	3.06
32	42.1 x 3.56	3.38	4.35
40	48.2 x 3.68	4.05	5.37
50	60.3 x 3.91	5.44	7.50
65	73.0 x 5.16	8.63	11.71
80	88.9 x 5.49	11.29	15.90
90	101.6 x 5.74	13.50	19.80
100	114.3 x 6.02	16.07	24.28
125	141.3 x 6.55	21.77	34.69
150	168.3 x 7.11	28.26	46.80
200	219.1 x 8.18	42.55	74.61
250	273.0 x 9.27	60.20	110.90
300	323.8 x 10.31	75.90	151.90
350	355.6 x 11.10	93.70	180.70
400	406.4 x 12.70	123.50	237.30
450	457.2 x 14.27	156.20	300.80
500	508.0 x 15.10	183.00	361.80
600	609.6 x 17.48	254.50	513.70

## GALVANISED PIPE

Nom. Size N.B. Med.	Actual Size O.D. x Wall	Mass of Pipe Kg/m	Mass of Pipe filled with water kg/m
8	13.5 x 2.3	0.68	0.74
10	17.2 x 2.3	0.89	1.01
15	21.3 x 2.6	1.27	1.47
20	26.9 x 2.6	1.65	2.02
25	33.7 x 3.2	2.52	3.11
32	42.4 x 3.2	3.24	4.26
40	48.3 x 3.2	3.73	5.11
50	60.3 x 3.6	5.24	7.46
65	76.1 x 3.6	6.69	10.42
80	88.9 x 4.0	8.68	13.82
100	114.3 x 4.5	12.4	21.11
125	139.7 x 4.9	16.5	29.75
150	165.1 x 4.9	19.6	38.55

## PVC PRESSURE PIPE - CLASS 12

Nom. Size	Actual Size O.D. x Wall	Mass of Pipe Kg/m	Mass of Pipe filled with water kg/m
15	21.2 x 1.5	0.14	0.40
20	26.6 x 1.6	0.20	0.63
25	33.4 x 1.9	0.30	0.99
32	42.2 x 2.4	0.40	1.50
40	48.1 x 2.8	0.60	2.02
50	60.2 x 3.4	0.90	3.14
65	75.2 x 4.2	1.40	4.90
80	88.7 x 5.0	1.90	6.76
100	114.1 x 6.3	3.10	11.19
125	140.0 x 7.7	4.60	16.79
150	160.0 x 8.8	6.10	22.03
200	225.0 x 11.1	10.80	34.10

## PVC PRESSURE PIPE - CLASS 6

Nom. Size	Actual Size O.D. x Wall	Mass of Pipe Kg/m	Mass of Pipe filled with water kg/m
40	48.1 x 1.6	0.30	1.88
50	60.2 x 1.8	0.50	3.02
65	75.2 x 2.2	0.70	4.64
80	88.7 x 2.6	1.00	6.48
100	114.1 x 3.3	1.60	10.68
125	140.0 x 4.0	2.50	16.18
150	160.0 x 4.5	3.20	21.11
200	225.0 x 5.8	5.70	41.47

## CAST IRON PIPES – CLASS K9

Nominal Size	Actual Size O.D. x Wall	Mass of Pipe Kg/m	Pipe and Water Kg/m	Concrete Lining Thickness	Mass of Lined Pipe Kg/m	Mass of Lined Pipe and Water Kg/m
80	95.5 x 6.0	12.36	17.84	6.0	15.64	19.66
100	121.9 x 6.1	16.55	26.00	6.0	21.09	28.59
150	177.3 x 6.3	25.09	46.39	6.0	31.82	50.13
200	232.2 x 6.4	34.18	71.89	8.0	46.18	78.67
225	259.1 x 6.6	39.45	86.94	8.0	52.91	94.42
250	286.0 x 6.8	44.73	103.00	8.0	60.00	111.63
300	345.4 x 7.2	57.09	143.24	10.0	81.45	157.42
375	426.2 x 7.9	79.27	211.55	10.0	109.45	229.15
400	507.0 x 8.6	107.82	290.24	10.0	138.73	312.08
500	560.3 x 9.0	117.82	347.95	10.0	158.91	373.16

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
004T008	153	AF50-BE100	121	AF-CMA-150	119	AL12 600	79
006T010	153	AF50-BE150	121	AF-CMA-200	119	AL12AR-150W	84
008T012	153	AF50-BE200	121	AF-CMA-300	119	AL12AR-300W	84
009N012	153	AF50-BE300	121	AF-CMA-400	119	AL12AR-450W	84
010T014	153	AF50-BE400	121	AF-CUTT00L	123	AL12AR-600W	84
011N014	153	AF50-BE450	121	AF-CVR(W)	120	AL12CC	90
012T016	153	AF50-BE500	121	AF-CVR-50	120	AL12CS1AL	90
014N018	153	AF50-BE600	121	AF-CVR-100	120	AL12CS3AL	90
014T018	153	AF100	104, 106, 110	AF-CVR-150	120	AL12CS4AL	90
016T020	153	AF100-(W)	108	AF-CVR-200	120	AL12CS6AL	90
017N022	153	AF100-100	108	AF-CVR-300	120	AL12ER150R3	84
018T022	153	AF100-200	108	AF-CVR-400	120	AL12ER300R3	84
020T024	153	AF100-300	108	AF-CVR-450	120	AL12ER450R3	84
021N026	153	AF100-400	108	AF-CVR-500	120	AL12ER600R3	84
022T026	153	AF100-500	108	AF-CVR-600	120	AL12ERC*	89
024N028	153	AF100-600	108	AF-DIV-50	120	AL12FB150R3	83
026N030	153	AF100-BE100	121	AF-DIV-100	120	AL12FB300R3	83
027N032	153	AF100-BE200	121	AF-EG-CBN	111-112, 129	AL12FB450R3	83
028N032	153	AF100-BE300	121	AF(H)-BE(W)	121	AL12FB600R3	83
030N034	153	AF100-BE400	121	AF-GCLIP	129	AL12FC150R3	83
032N036	153	AF100-BE450	121	AF-HGR-50	117	AL12FC300R3	83
034N040	153	AF100-BE500	121	AF-HGR-100	117	AL12FC450R3	83
038N044	153	AF100-BE600	121	AF-JBOX	122	AL12FC600R3	83
040N046	153	AF150	106, 109-110	AF-KITCH1	111-112, 125-126	AL12HBSS	90
042N048	153	AF150-BE300	121	AF-KITCH2	111-112, 128	AL12HHS	86
046N052	153	AF150-BE400	121	AF-KITCH3	110-112, 124, 127-129	AL12HVS	86
050N054	153	AF150-BE600	121	AF-LIGHTB	122	AL12IR150R3	84
050N056	153	AF-BCLIP	111, 130	AF-MSB-3M	113	AL12IR300R3	84
053N060	153	AF-CANTH	116	AF-PPA-(H)	115	AL12IR450R3	84
056N062	153	AF-CANTH-(W)	116	AF-PPA-150	115	AL12IR600R3	84
058N064	153	AF-CANTH-200	116	AF-PPA-250	115	AL12LC150	88
064N072	153	AF-CANTH-300	116	AF-PPA-350	115	AL12LC300	88
066N074	153	AF-CANTH-400	116	AF-PPA-450	115	AL12LC450	88
069N076	153	AF-CANTH-500	116	AF-PPA-550	115	AL12LC600	88
072N080	153	AF-CANTH-600	116	AF-PPA-650	115	AL12LHR31	85
082N090	153	AF-CANTM-(W)	116	AF-RODCLIP1	114	AL12LHR41	85
098N106	153	AF-CANTM-150	116	AF-RODCLIP2	114	AL12LHR43	85
4029706	160	AF-CANTM-200	116	AFS41	130	AL12LHR61	85
12A Splice Plate	73, 87	AF-CANTM-300	116	AF-SCLIP	111, 130	AL12LHR63	85
16A Splice Plate	73	AF-CB-MSB	119	AF-SIDECLIP	114	AL12LHR64	85
20A Splice Plate	87	AF-CCA-(W)	115	AF-SIDECLIPM8	114	AL12RHR31	85
20B Splice Plate	87	AF-CCA-100	115	AF-SIDECLIPM10	114	AL12RHR41	85
20B / 20C Splice Plate	73	AF-CCA-150	115	AF-SPLICE	110	AL12RHR43	85
AF50	104, 106, 110	AF-CCA-200	115	AF-TBAR1100	110, 124, 127-129	AL12RHR61	85
AF50-(W)	107	AF-CCA-300	115	AF-TBAR550	110, 127	AL12RHR63	85
AF50-50	107, 117	AF-CCA-400	115	AF-UNI-DO	120	AL12RHR64	85
AF50-100	107, 117, 124	AF-CPA-(W)	115	AF-USB-3M	113	AL12RS150	86
AF50-150	107, 124	SAF-CPA-100	115	AF-(W)DO	120	AL12RS300	86
AF50-200	107, 124	AF-CPA-150	115	AF-WB-50	117	AL12RS75	86
AF50-300	107, 124	AF-CPA-200	115	AF-WCLIP	111, 130	AL12SP	86
AF50-400	107, 124	AF-CPA-300	115	AF-ZBAR-3M	116	AL12SR31	85
AF50-450	107, 124	AF-CPA-400	115	AL12 150	79	AL12SR41	85
AF50-500	107, 124	AF-CMA-(W)	119	AL12 300	79	AL12SR43	85
AF50-600	107, 124	AF-CMA-100	119	AL12 450	79	AL12SR61	85

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
AL12SR63	85	AL16RHR63	85	AL20LC600	88	ATG1E160	102
AL12SR64	85	AL16RHR64	85	AL20LHR31	85	ATG11107	102
AL12T150R3	83	AL16RS150	86	AL20LHR41	85	ATG11110	102
AL12T300R3	83	AL16RS300	86	AL20LHR43	85	ATG11115	102
AL12T450R3	83	AL16RS75	86	AL20LHR61	85	ATG11120	102
AL12T600R3	83	AL16SP	86	AL20LHR63	85	ATG11130	102
AL12ZHDBSS	86, 90	AL16SR31	85	AL20LHR64	85	ATG11145	102
AL16 150	80	AL16SR41	85	AL20RHR31	85	ATG11160	102
AL16 300	80	AL16SR43	85	AL20RHR41	85	ATG1T107	103
AL16 450	80	AL16SR61	85	AL20RHR43	85	ATG1T110	103
AL16 600	80	AL16SR63	85	AL20RHR61	85	ATG1T115	103
AL16AR-150W	84	AL16SR64	85	AL20RHR63	85	ATG1T120	103
AL16AR-300W	84	AL16T150R4	83	AL20RHR64	85	ATG1T130	103
AL16AR-450W	84	AL16T300R4	83	AL20RS150	86	ATG1T145	103
AL16AR-600W	84	AL16T450R4	83	AL20RS300	86	ATG1T160	103
AL16CC	90	AL16T600R4	83	AL20RS75	86	ATG1X107	103
AL16CS1AL	90	AL16ZHDBSS	86, 90	AL20SP	86	ATG1X110	103
AL16CS3AL	90	AL20 150	81	AL20SR31	85	ATG1X115	103
AL16CS4AL	90	AL20 300	81	AL20SR41	85	ATG1X120	103
AL16CS6AL	90	AL20 450	81	AL20SR43	85	ATG1X130	103
AL16ER150R4	84	AL20 600	81	AL20SR61	85	ATG1X145	103
AL16ER300R4	84	AL20AR-150W	84	AL20SR63	85	ATG1X160	103
AL16ER450R4	84	AL20AR-300W	84	AL20SR64	85	ATH1B107	102
AL16ER600R4	84	AL20AR-450W	84	AL20T150R4	83	ATH1B110	102
AL16ERC*	89	AL20AR-600W	84	AL20T300R4	83	ATH1B115	102
AL16FB150R4	83	AL20CC	90	AL20T450R4	83	ATH1B120	102
AL16FB300R4	83	AL20CS1AL	90	AL20T600R4	83	ATH1B130	102
AL16FB450R4	83	AL20CS3AL	90	AL20ZHDBSS	86, 90	ATH1B145	102
AL16FB600R4	83	AL20CS4AL	90	AL43MG	87	ATH1B160	102
AL16FC150R4	83	AL20CS6AL	90	AL43SS	87	ATH1E207	103
AL16FC300R4	83	AL20CERC*	89	ALBC*	89	ATH1E210	103
AL16FC450R4	83	AL20ER150R4	84	ALCC*	89	ATH1E115	103
AL16FC600R4	83	AL20ER300R4	84	ALDS3	86	ATH1E120	103
AL16HBSS	90	AL20ER450R4	84	ALEHD	86	ATH1E130	103
AL16HHS	86	AL20ER600R4	84	ALIR*	89	ATH1E145	103
AL16HVS	86	AL20ERC*	89	ALLRC*	89	ATH1E160	103
AL16IR150R4	84	AL20FB150R4	83	ALRHD	86	ATH11107	102
AL16IR300R4	84	AL20FB300R4	83	ALRRC*	89	ATH11110	102
AL16IR450R4	84	AL20FB450R4	83	ALS54	86	ATH11115	102
AL16IR600R4	84	AL20FB600R4	83	ALSRC*	89	ATH11120	102
AL16LC150	88	AL20FC150R4	83	ALTC*	89	ATH11130	102
AL16LC300	88	AL20FC300R4	83	ATG1B107	102	ATH11145	102
AL16LC450	88	AL20FC450R4	83	ATG1B110	102	ATH11160	102
AL16LC600	88	AL20FC600R4	83	ATG1B115	102	ATH1T107	103
AL16LHR31	85	AL20HBSS	90	ATG1B120	102	ATH1T110	103
AL16LHR41	85	AL20HHS	86	ATG1B130	102	ATH1T115	103
AL16LHR43	85	AL20HVS	86	ATG1B145	102	ATH1T120	103
AL16LHR61	85	AL20IR150R4	84	ATG1B160	102	ATH1T130	103
AL16LHR63	85	AL20IR300R4	84	ATG1E207	103	ATH1T145	103
AL16LHR64	85	AL20IR450R4	84	ATG1E210	103	ATH1T160	103
AL16RHR31	85	AL20IR600R4	84	ATG1E115	103	ATH1X107	103
AL16RHR41	85	AL20LC150	88	ATG1E120	103	ATH1X110	103
AL16RHR43	85	AL20LC300	88	ATG1E130	103	ATH1X115	103
AL16RHR61	85	AL20LC450	88	ATG1E145	103	ATH1X120	103

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
ATH1X130	103	F4000	148	HN06H	96	LAL1564	85
ATH1X145	103	F41000	148	HN08	34	LAL1631	85
ATH1X160	103	F41034	148	HN10	34	LAL1641	85
Built in Splice	87	F41043	148	HN12	34	LAL1643	85
CKSO615	34, 48	F41048	148	HN16	34	LAL1661	85
CKSO620	34	F41060	148	HN20	34	LAL1663	85
CKSO820	34	F41076	148	Hold Down Brackets	73, 87	LAL1664	85
CKS1020	34	F41089	148	KS2026-1	139	LAL1731	85
CPS1040	34	F41114	148	KS2028-1	139	LAL1741	85
CPS1240	34	F41140	148	KS2030-1	139	LAL1743	85
CPS1250	34	F41165	148	KS2032-1	139	LAL1761	85
Divider Strip	73, 87	FL210D	161	KS2034-1	139	LAL1763	85
F11000	142	FL312D	161	KS2036-1	139	LAL1764	85
F12000	142	FL412D	161	KS2038-1	139	LAL181R6	83
F13000	142	Flat Covers	75, 88	KS2040-1	139	LAL183R6	83
F15000	143	FW06	34	KS2042-1	139	LAL184R6	83
F15030	143	FW06H	74	KS2044-1	139	LAL186R6	83
F15050	143	FW06SS	74, 87	KS2046-1	139	LAL191R6	83
F16000	144	FW08	34	KS2026-2	139	LAL193R6	83
F16025	144	FW10	34	KS2028-2	139	LAL194R6	83
F16032	144	FW12	34	KS2030-2	139	LAL196R6	83
F16040	144	FW12SS	87	KS2032-2	139	LAL20CZHDBSS	86, 90
F16050	144	FW16	34	KS2034-2	139	LAL30	86
F21000	145	FW20	34	KS2036-2	139	LAL35	86
F21050	145	HAD06	34, 160	KS2038-2	139	LAL36	86
F21100	145	HAD08	34, 160	KS2040-2	139	LAL380	86
F21150	145	HAD10	34, 160	KS2042-2	139	LAL381	86
F22000	146	HAD12	34, 160	KS2044-2	139	LAL383	86
F22050	146	HBD084	160	KS2046-2	139	LAL41	87
F22100	146	HBD104	160	LAL101	82	LAL42	87
F22150	146	HBD105	160	LAL103	82	LAL50	86
F23000	145	HBD106	160	LAL104	82	LAL90	90
F23075	145	HBD1260	160	LAL106	82	LAL931	90
F23100	145	HHS0620	34, 96	LAL111R6	83	LAL933	90
F23135	145	HHS0620H	34, 96	LAL113R6	83	LAL934	90
F23175	145	HHS0625	34	LAL114R6	83	LAL936	90
F24000	146-147	HHS0630	34	LAL116R6	83	LAM6013	88
F24075	146-147	HHS0820	34	LAL121R6	84	LAM6033	88
F24100	146-147	HHS0825	34	LAL123R6	84	LAM6043	88
F24135	146-147	HHS0830	34	LAL124R6	84	LAM6063	88
F24175	146-147	HHS0840	34	LAL126R6	84	LEE111	68
F25000	147	HHS1020	34	LAL131R6	84	LEE113	68
F25095	147	HHS1025	34	LAL133R6	84	LEE114	68
F25135	147	HHS1030	34	LAL134R6	84	LEE116	68
F31000	144	HHS1040	34	LAL136R6	84	LEE121	69
F31025	144	HHS1224	34	LAL141	84	LEE123	69
F31032	144	HHS1225SS	87	LAL143	84	LEE124	69
F31040	144	HHS1230	34	LAL144	84	LEE126	69
F31050	144	HHS1230H	74	LAL146	84	LEE131	69
F32000	144	HHS1230SS	74, 87	LAL1531	85	LEE133	69
F32025	144	HHS1240	34	LAL1541	85	LEE134	69
F32032	144	HHS1260	34	LAL1543	85	LEE136	69
F32040	144	HHS1640	34	LAL1561	85	LEE141	69
F32050	144	HN06	34, 96	LAL1563	85	LEE143	69

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
LEE144	69	LEG101	65	LEG381	71	LEK1731	70
LEE146	69	LEG101R	65	LEG383	71	LEK1741	70
LEE1531	71	LEG103	65	LEG384	71	LEK1743	70
LEE1541	71	LEG103R	65	LEG40	74	LEK1761	70
LEE1543	71	LEG104	65	LEG41	74	LEK1763	70
LEE1561	71	LEG104R	65	LEG50	72	LEK1764	70
LEE1563	71	LEG106	65	LEG6013H	75	LEK181	68
LEE1564	71	LEG106R	65	LEG6033H	75	LEK183	68
LEE1631	70	LEG111	68	LEG6043H	75	LEK184	68
LEE1641	70	LEG113	68	LEG6063H	75	LEK186	68
LEE1643	70	LEG114	68	LEG63*	76	LEK191	68
LEE1661	70	LEG116	68	LEG8873	77	LEK193	68
LEE1663	70	LEG121	69	LEG90	77	LEK194	68
LEE1664	70	LEG123	69	LEG91	77	LEK196	68
LEE1731	70	LEG124	69	LEG931	77	LEK30	72
LEE1741	70	LEG126	69	LEG933	77	LEK35	72
LEE1743	70	LEG131	69	LEG934	77	LEK36	72
LEE1761	70	LEG133	69	LEG936	77	LEK380	71
LEE1763	70	LEG134	69	LEK101	66	LEK381	71
LEE1764	70	LEG136	69	LEK101R	66	LEK383	71
LEE181	68	LEG141	69	LEK103	66	LEK384	71
LEE183	68	LEG143	69	LEK103R	66	LEK6013H	75
LEE184	68	LEG144	69	LEK104	66	LEK6033H	75
LEE186	68	LEG146	69	LEK104R	66	LEK6043H	75
LEE191	68	LEG1531	71	LEK106	66	LEK6063H	75
LEE193	68	LEG1541	71	LEK106R	66	LEK63*	76
LEE194	68	LEG1543	71	LEK111	68	LEK8873	77
LEE196	68	LEG1561	71	LEK113	68	LEK90	77
LEE30	72	LEG1563	71	LEK114	68	LEK91	77
LEE35	72	LEG1564	71	LEK116	68	LEK931	77
LEE36	72	LEG1631	70	LEK121	69	LEK933	77
LEE380	71	LEG1641	70	LEK123	69	LEK934	77
LEE381	71	LEG1643	70	LEK124	69	LEK936	77
LEE383	71	LEG1661	70	LEK126	69	LEL101	67
LEE384	71	LEG1663	70	LEK131	69	LEL101R	67
LEE42	74	LEG1664	70	LEK133	69	LEL103	67
LEE50	72	LEG1731	70	LEK134	69	LEL103R	67
LEE52	74	LEG1741	70	LEK136	69	LEL104	67
LEE55	72	LEG1743	70	LEK141	69	LEL104R	67
LEG63*	76	LEG1761	70	LEK143	69	LEL106	67
LEE90	77	LEG1763	70	LEK144	69	LEL106R	67
LEE91	77	LEG1764	70	LEK146	69	LEL111	68
LEE101	64	LEG181	68	LEK1531	71	LEL113	68
LEE1016	64	LEG183	68	LEK1541	71	LEL114	68
LEE103	64	LEG184	68	LEK1543	71	LEL116	68
LEE1036	64	LEG186	68	LEK1561	71	LEL121	69
LEE104	64	LEG191	68	LEK1563	71	LEL123	69
LEE1046	64	LEG193	68	LEK1564	71	LEL124	69
LEE106	64	LEG194	68	LEK1631	70	LEL126	69
LEE1066	64	LEG196	68	LEK1641	70	LEL131	69
LEG6013H	75	LEG30	72	LEK1643	70	LEL133	69
LEG6033H	75	LEG35	72	LEK1661	70	LEL134	69
LEG6043H	75	LEG36	72	LEK1663	70	LEL136	69
LEG6063H	75	LEG380	71	LEK1664	70	LEL141	69

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
LEL143	69	LUE113	68	LUE1033	64	LUG194	68
LEL144	69	LUE114	68	LUE1036	64	LUG196	68
LEL146	69	LUE116	68	LUE1043	64	LUG30	72
LEL1531	71	LUE121	69	LUE1046	64	LUG35	72
LEL1541	71	LUE123	69	LUE1063	64	LUG36	72
LEL1543	71	LUE124	69	LUE1066	64	LUG380	71
LEL1561	71	LUE126	69	LUG101	65	LUG381	71
LEL1563	71	LUE131	69	LUG101R	65	LUG383	71
LEL1564	71	LUE133	69	LUG103	65	LUG384	71
LEL1631	70	LUE134	69	LUG103R	65	LUG40	74
LEL1641	70	LUE136	69	LUG104	65	LUG41	74
LEL1643	70	LUE141	69	LUG104R	65	LUG50	72
LEL1661	70	LUE143	69	LUG106	65	LUK101	66
LEL1663	70	LUE144	69	LUG106R	65	LUK101R	66
LEL1664	70	LUE146	69	LUG111	68	LUK103	66
LEL1731	70	LUE1531	71	LUG113	68	LUK103R	66
LEL1741	70	LUE1541	71	LUG114	68	LUK104	66
LEL1743	70	LUE1543	71	LUG116	68	LUK104R	66
LEL1761	70	LUE1561	71	LUG121	69	LUK106	66
LEL1763	70	LUE1563	71	LUG123	69	LUK106R	66
LEL1764	70	LUE1564	71	LUG124	69	LUK111	68
LEL181	68	LUE1631	70	LUG126	69	LUK113	68
LEL183	68	LUE1641	70	LUG131	69	LUK114	68
LEL184	68	LUE1643	70	LUG133	69	LUK116	68
LEL186	68	LUE1661	70	LUG134	69	LUK121	69
LEL191	68	LUE1663	70	LUG136	69	LUK123	69
LEL193	68	LUE1664	70	LUG141	69	LUK124	69
LEL194	68	LUE1731	70	LUG143	69	LUK126	69
LEL196	68	LUE1741	70	LUG144	69	LUK131	69
LEL30	72	LUE1743	70	LUG146	69	LUK133	69
LEL35	72	LUE1761	70	LUG1531	71	LUK134	69
LEL36	72	LUE1763	70	LUG1541	71	LUK136	69
LEL380	71	LUE1764	70	LUG1543	71	LUK141	69
LEL381	71	LUE181	68	LUG1561	71	LUK143	69
LEL383	71	LUE183	68	LUG1563	71	LUK144	69
LEL384	71	LUE184	68	LUG1564	71	LUK146	69
LEL63*	76	LUE186	68	LUG1631	70	LUK1531	71
LEL8873	77	LUE191	68	LUG1641	70	LUK1541	71
LEL90	77	LUE193	68	LUG1643	70	LUK1543	71
LEL91	77	LUE194	68	LUG1661	70	LUK1561	71
LEM55	72	LUE196	68	LUG1663	70	LUK1563	71
LEM6013H	75	LUE30	72	LUG1664	70	LUK1564	71
LEM6033H	75	LUE35	72	LUG1731	70	LUK1631	70
LEM6043H	75	LUE36	72	LUG1741	70	LUK1641	70
LEM6063H	75	LUE380	71	LUG1743	70	LUK1643	70
LEM61*	76	LUE381	71	LUG1761	70	LUK1661	70
LEM62*	76	LUE383	71	LUG1763	70	LUK1663	70
LEM65*	76	LUE384	71	LUG1764	70	LUK1664	70
LEM66*	76	LUE42	74	LUG181	68	LUK1731	70
LEM67*	76	LUE50	72	LUG183	68	LUK1741	70
LEM68*	76	LUE52	74	LUG184	68	LUK1743	70
LEM69*	76	LUE55	72	LUG186	68	LUK1761	70
LEMES35K	77	LUE1013	64	LUG191	68	LUK1763	70
LUE111	68	LUE1016	64	LUG193	68	LUK1764	70

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
LUK181	68	LUL1743	70	P1001C	21	P1325	36, 50
LUK183	68	LUL1761	70	P1001C41	21, 24	P1326	36, 50
LUK184	68	LUL1763	70	P1001-GB	19	P1346	36, 50
LUK186	68	LUL1764	70	P1001-HG	19	P1354	42
LUK191	68	LUL181	68	P1001-PL	19	P1357	37
LUK193	68	LUL183	68	P1003	21, 24	P1358	36
LUK194	68	LUL184	68	P1006	32, 49	P1359	37
LUK196	68	LUL186	68	P1006H	32	P1376	38
LUK30	72	LUL191	68	P1006SS	32, 49	P1377	38
LUK35	72	LUL193	68	P1006ZA	32	P1379	43
LUK36	72	LUL194	68	P1007	32, 49	P1386	43
LUK380	71	LUL196	68	P1007H	32, 74	P1453	38
LUK381	71	LUL30	72	P1007SS	32, 49, 74	P1458	36, 50
LUK383	71	LUL35	72	P1007ZA	32	P1546	37
LUK384	71	LUL36	72	P1008	32, 49	P1663	30
LUK8873	90	LUL380	71	P1008H	32	P1736	37
LUL101	67	LUL381	71	P1008SS	32, 49	P1737	38
LUL101R	67	LUL383	71	P1008ZA	32	P1796	44
LUL103	67	LUL384	71	P1010	32, 49	P1834	45
LUL103R	67	LUM55	72	P1010H	32, 74	P1834A	45
LUL104	67	LW06	34	P1010ZA	32	P1843	42
LUL104R	67	LW08	34	P1012	33	P1873	35
LUL106	67	LW10	34	P1012H	33	P1941	35
LUL106R	67	LW12	34	P1012S	32	P1964	35
LUL111	68	LW16	34	P1012SH	32	P2000	1, 23, 25, 44, 48-50
LUL113	68	LW20	34	P1012SS	32	P20003-GB	15
LUL114	68	NEMA 12 - Aluminium	57	P1013SS	32, 42, 74, 87	P20003-HG	15
LUL116	68	NEMA 12B - Steel	57, 64	P1026	36, 50	P20003-PL	15
LUL121	69	NEMA 16 - Aluminium	57	P1028	36	P20003T-GB	15
LUL123	69	NEMA 16A - Steel	57, 65	P1031	36	P20003T-HG	15
LUL124	69	NEMA 20 - Aluminium	57	P1033	37	P20003T-PL	15
LUL126	69	NEMA 20B - Steel	57, 66	P1034	37	P2000-AL	23
LUL131	69	NEMA 20C - Aluminium	57	P1035	37	P2000-GB	15
LUL133	69	NEMA 20C - Steel	57, 67	P1036	35	P2000-HG	15
LUL134	69	P1000®	14, 24, 39, 44, 48, 49, 50	P1037	36	P2000-PL	15
LUL136	69	P10003-GB	14	P1038	36	P2000T	15
LUL141	69	P10003-HG	14	P1044	38	P2000T-GB	15
LUL143	69	P10003-PL	14	P1045	37	P2000T-HG	15
LUL144	69	P10003T-GB	14	P1046	38	P2000T-PL	15
LUL146	69	P10003T-HG	14	P1047	38	P2001	19, 25, 48
LUL1531	71	P10003T-PL	14	P1062	35	P2001A	21
LUL1541	71	P1000CI	30, 31	P1063	35	P2001-AL	23
LUL1543	71	P1000CI-HG	31	P1064	35	P2001C3	21, 25
LUL1561	71	P1000-GB	14	P1065	35, 50	P2001-GB	19
LUL1563	71	P1000-HG	14	P1066	35	P2001-HG	19
LUL1564	71	P1000-PL	14	P1067	35	P2001-PL	19
LUL1631	70	P1000-SS	23	P1068	36, 50	P2024	139, 152
LUL1641	70	P1000T	14	P1075-8	40	P2025	139, 152
LUL1643	70	P1000T-GB	14	P1184	22	P2026	139, 152
LUL1661	70	P1000T-HG	14	P1184A	22	P2027	138-139, 152
LUL1663	70	P1000T-PL	14	P1186	37	P2028	138-139
LUL1664	70	P1001	19, 24, 39, 48	P1270	44	P2029	139, 152
LUL1731	70	P1001A	21	P1271	44	P2030	138-139, 152
LUL1741	70	P1001B	21	P1272	44	P2031	139, 152

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
P2032	138-139, 152	P2101	37	P2663-250	40, 118	P33003-PL	16
P2033	139, 152	P2103	37	P2663-400	40, 118	P33003T-GB	16
P2034	138-139, 152	P2106	37	P2663-550	40, 118	P33003T-HG	16
P2035	139, 152	P2108	37	P2663-700	40, 118	P33003T-PL	16
P2036	139, 152	P2223	38	P2676	43	P3300CI	30, 31
P2037	138-139, 152	P2224	39	P2677	43	P3300CI-HG	31
P2038	139, 152	P2228	39	P267910	43	P3300-GB	16
P2039	139, 152	P2231	42	P267912	43	P3300-HG	16
P2040	139, 152	P2231A	42	P2682	43	P3300-PL	16
P2041	139, 152	P2232	42	P2749	45	P3300-SS	23
P2042	138-139, 152	P2232A	42	P2749N	45	P3300T	16
P2043	139, 152	P2233	40	P2750	45	P3300T-GB	16
P2044	139, 152	P2234	40	P2750N	45	P3300T-HG	16
P2046	138-139, 152	P2240	22	P2751	45	P3300T-PL	16
P2047	139, 152	P2324	35	P2751N	45	P3301	20, 26
P2048	139, 152	P2325	35	P2755	46	P3301-GB	20
P2049	139, 152	P2346	39	P2785	44	P3301-HG	20
P2050	138, 152	P2377	47	P2786	44	P3301-PL	20
P2051	152	P2378MG-1	32	P2815	42	P3753	30
P2052	13, 152	P2378MG-3	32	P2815D	42	P4000	17, 27, 49, 50
P2053	152	P2380M10-1	32	P2855	46	P40003-GB	17
P2054	152	P2380M10-4	32	P2860-10	22	P40003-HG	17
P2055	139, 152	P2381M12-2	32	P2900	47	P40003-PL	17
P2056	152	P2381M12-5	32	P2901	47	P40003T-GB	17
P2057	152	P2452	37	P2902	47	P40003T-HG	17
P2058	152	P2484	36, 50	P2903	47	P40003T-PL	17
P2059	152	P2491L	41	P2950	45	P4000-AL	23
P2060	152	P2491R	41	P3006	33	P4000-GB	17
P2062	152	P2494L	41	P3006H	33	P4000-HG	17
P2064	152	P2494R	41	P3006SS	33	P4000-PL	17
P2066	152	P2497L	41	P3007	33	P4000T	17
P2068	152	P2497R	41	P3007H	33	P4000T-GB	17
P2070	152	P2500L	41	P3007SS	33	P4000T-HG	17
P2070-225	152	P2500R	41	P3007ZA	33	P4000T-PL	17
P2070-230	152	P2513	41	P3008	33	P4001	20, 27
P2070-240	152	P2513A	41	P3008H	33	P4001-AL	23
P2070-250	152	P2514	41	P3008SS	33	P4001-GB	20
P2070-260	152	P2514A	41	P3008ZA	33	P4001-HG	20
P2070-62	138, 152	P2515	41	P3010	33	P4001-PL	20
P2070-64	152	P2515A	41	P3010MG	33	P4002-1	21, 27
P2070-66	152	P2516	41	P3010ZA	33	P4003	27
P2070-70	152	P2516A	41	P3013	33	P4006	32, 49
P2070-74	152	P2521	46	P3013MG	33	P4006H	32
P2070-80	152	P2535	46	P3013SS	33	P4006SS	32
P2070-84	152	P2539	46	P3013ZA	33	P4006ZA	32
P2071	152	P2541	46	P3016	33, 48	P4007	32, 49
P2072	152	P2542	41, 118	P3016MG	33, 74	P4007H	32
P2072A	39	P2543	41, 118	P3016SS	33, 74, 87	P4007SS	32
P2072ASQ	39	P2544	41, 118	P3087	44	P4007ZA	32
P2072S1	39	P2545	41, 118	P3116	33, 48	P4008	32, 49
P2073	39	P2546	41, 118	P3116MG	33	P4008H	32
P2073SQ	39	P2552	47	P3300	16, 26, 49, 50	P4008SS	32
P2095	37	P2600	152	P33003-GB	16	P4008ZA	32
P2097	37	P2663-(L)	118	P33003-HG	16	P4010	32, 49



# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
P4010H	32	PIC1100	31	RH1200A-M12	161	SHS0825	34
P4010ZA	32	PIC1200	31	RH1200B-M8	161	SHS0830	34
P4012	33	PIC1300	31	RH1200B-M10	161	Standard Covers	75, 88
P4012H	33	PIC1400	31	RH1200B-M12	161	SW06	34
P4012S	32	PIC1500	31	RH1200C-M8	161	SW08	34
P4012SH	32	PIC1600	31	RH1200C-M10	161	SW10	34
P4012SS	32-33	PIC1700	31	RH1200C-M12	161	SW12	34
P4013SS	32	PIC1800	31	RTGA307	102	SW16	34
P4045	37	PIC1900	31	RTGA310	102	SW20	34
P4047	38	PIC200	31	RTGA315	102	TB150	101
P4240	22	PIC2000	31	RTGA320	102	TB300	101
P4376	38	PIC2400	31	RTGA330	102	TB450	101
P4663	30	PIC300	31	RTGA345	102	TB600	101
P5500	18, 28, 48, 49	PIC3000	31	RTHA307	102	TC-1323SS	136
P55003-GB	18	PIC400	31	RTHA310	102	TC-2125SS	136
P55003-HG	18	PIC500	31	RTHA315	102	TC-2329SS	136
P55003-PL	18	PIC600	31	RTHA320	102	TC-2531SS	136
P5500-GB	18	PIC800	31	RTHA330	102	TC-2733SS	136
P5500-HG	18	PIE1000	31	RTHA345	102	TC-2935SS	136
P5500-PL	18	PIE1100	31	SC-2832SS	137	TC-3238SS	136
P5500T	18	PIE1200	31	SC-3034SS	137	TC-3541SS	136
P55003T-GB	18	PIE1400	31	SC-3236SS	137	TC-3844SS	136
P55003T-HG	18	PIE1500	31	SC-3438SS	137	TC-4248SS	136
P55003T-PL	18	PIE1600	31	SC-3640SS	137	TC-4551SS	136
P5500T-GB	18	PIE200	31	SC-3842SS	137	TC-4753SS	136
P5500T-HG	18	PIE2000	31	SC-4044SS	137	TC-4955SS	136
P5500T-PL	18	PIE2100	31	SC-4246SS	137	TC-5157SS	136
P5501	21, 28	PIE2200	31	SC-4448SS	137	TC-5359SS	136
P5501-GB	21	PIE300	31	SC-4650SS	137	TC-5561SS	136
P5501-HG	21	PIE3000	31	SC-4852SS	137	TC-5763SS	136
P5501-PL	21	PIE400	31	SC-5054SS	137	TC-5965SS	136
P5508	32, 49	PIE500	31	SC-5256SS	137	TC-6167SS	136
P5510	32, 49	PIE600	31	SS-5458SS	137	TC-6369SS	136
P5521	46	PIE700	31	SC-5660SS	137	TC-6571SS	136
P5545	38	PIE800	31	SC-5862SS	137	TC-6773SS	136
P5547	38	PIE900	31	SC-6064SS	137	TC-6975SS	136
P5580	22	QF20	138	SC-6266SS	137	TC-7177SS	136
P5663-300	41	QF22	138	SC-6468SS	137	TC-7379SS	136
P5663-450	41	QF24	138	SC-6670SS	137	TC-7581SS	136
P5663-600	41	QF27	138	SC-6872SS	137	TC-7783SS	136
P5663-750	41	QF30	138	SC-7074SS	137	TC-7985SS	136
PCL150	40	QF33	138	SC-7276SS	137	TC-8187SS	136
PCL300	40	QF37	138	SC-7478SS	137	TC-8389SS	136
PCL450	40	QF41	138	SC-7680SS	137	TC-8591SS	136
PCL600	40	QF45	138	SC-7882SS	137	TC-96103SS	136
Peaked Covers	75, 88	RC06	34	SC-8084SS	137	TC-103111SS	136
PF2010	160	RC08	34	SC-8286SS	137	TC-111119SS	136
PHS0620	34	RC10	34	SC-8488SS	137	TC-119128SS	136
PHS0620MG	74	RC12	34	SC-8690SS	137	TF SERIES	138
PHS0620SS	74, 87	RC16	34	SC-9094SS	137	TF20	138
PHS0625	34	RC20	34	SC-94118SS	137	TF22	138
PHS0630	34	RH1200	161	SC-118130SS	137	TF24	138
PHS0825	34	RH1200A-M8	161	SC-127150SS	137	TF27	138
PIC1000	31	RH1200A-M10	161	SHS0620	34, 48	TF30	138

# UNISTRUT® PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
TF33	138	UN1-025	149	UN4-165	150	UN10-043	151
TF37	138	UN1-027	149	UNG	150	UN10-048	151
TF41	138	UN1-032	149	UNG-019	150	UN10-051	151
TF45	138	UN1-034	149	UNG-021	150	UN10-060	151
UD5050GB	132	UN1-038	149	UNG-025	150	UN10-064	151
UD7575GB	132	UN1-043	149	UNG-027	150	UN10-076	151
UD10050GB	132	UN1-048	149	UNG-032	150	UN10-089	151
UD100100GB	132	UN1-051	149	UNG-034	150	UN10-102	151
UD150100GB	132	UN1-060	149	UNG-038	150	UN10-114	151
UD150150GB	132	UN1-064	149	UNG-043	150	UN10-140	151
UDC5050GB	133	UN1-076	149	UNG-048	150	UN10-152	151
UDC7575GB	133	UN1-089	149	UNG-051	150	UN10-165	151
UDC10050GB	133	UN1-102	149	UNG-060	150	UN14	154
UDC100100GB	133	UN1-114	149	UNG-064	150	UN14-021	154
UDC150100GB	133	UN1-152	149	UNG-073	150	UN14-027	154
UDC150150GB	133	UN1-165	149	UNG-076	150	UN14-034	154
UDE5050GB	132	UN3	149	UNG-089	150	UN14-043	154
UDE7575GB	132	UN3-27	149	UNG-102	150	UN14-048	154
UDE10050GB	132	UN3-34	149	UNG-114	150	UN14-051	154
UDE100100GB	132	UN3-38	149	UNG-127	150	UN14-060	154
UDE150100GB	132	UN3-43	149	UNG-140	150	UN14-076	154
UDE150150GB	132	UN3-48	149	UNG-152	150	UN14-089	154
UDEC5050GB	133	UN3-51	149	UNG-165	150	UN14-102	154
UDEC7575GB	133	UN3-60	149	UN8	151	UN14-114	154
UDEC100150GB	133	UN3-76	149	UN8-19	151	UN14-140	154
UDEC100100GB	133	UN3-89	149	UN8-21	151	UN14-165	154
UDEC150100GB	133	UN3-102	149	UN8-25	151	UN14-168	154
UDEC150150GB	133	UN3-114	149	UN8-27	151	UN14-219	154
UDRI5050GB	133	UN3-140	149	UN8-32	151	UN14-273	154
UDRI7575GB	133	UN3-152	149	UN8-34	151	UN14-324	154
UDRI10050GB	133	UN3-165	149	UN8-38	151	UN14-356	154
UDRI100100GB	133	UN4	150	UN8-43	151	UN14-406	154
UDRI150100GB	133	UN4-016	150	UN8-48	151	UN14-457	154
UDRI150150GB	133	UN4-019	150	UN8-51	151	UN14-508	154
UDR05050GB	133	UN4-021	150	UN8-60	151	UN14-610	154
UDR07575GB	133	UN4-025	150	UN8-64	151	UN15	154
UDR010050GB	133	UN4-027	150	UN8-73	151	UN15-021	154
UDR0100100GB	133	UN4-032	150	UN8-76	151	UN15-027	154
UDR0150100GB	133	UN4-034	150	UN8-89	151	UN15-034	154
UDR0150150GB	133	UN4-038	150	UN8-102	151	UN15-043	154
UDT5050GB	132	UN4-043	150	UN8-114	151	UN15-048	154
UDT7575GB	132	UN4-048	150	UN8-127	151	UN15-051	154
UDT10050GB	132	UN4-051	150	UN8-140	151	UN15-060	154
UDT100100GB	132	UN4-060	150	UN8-152	151	UN15-076	154
UDT150100GB	132	UN4-064	150	UN8-165	151	UN15-089	154
UDT150150GB	132	UN4-073	150	UN10	151	UN15-102	154
UHS	159	UN4-076	150	UN10-016	151	UN15-114	154
UHS25	159	UN4-089	150	UN10-017	151	UN15-140	154
UHS32	159	UN4-095	150	UN10-021	151	UN15-152	154
UN1	149	UN4-102	150	UN10-025	151	UN15-165	154
UN1-013	149	UN4-114	150	UN10-027	151	UN15-168	154
UN1-016	149	UN4-127	150	UN10-032	151	UN15-203	154
UN1-019	149	UN4-140	150	UN10-034	151	UN15-219	154
UN1-021	149	UN4-152	150	UN10-038	151	UN16	155

# UNISTRUT®

## PART NUMBER INDEX

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
UN16-060	155	UN21-34	156	UN39-20	158	UT3HDB	98
UN16-076	155	UN21-43	156	UN40	158	UT3HDBH	98
UN16-089	155	UN21-48	156	UN40-12	158	UT3LP	98
UN16-102	155	UN21-60	156	UN40-16	158	UT3LPH	98
UN16-114	155	UN21-76	156	UN40-20	158	UT3RPH	98
UN16-127	155	UN21-89	156	UN42	158	UT3RPH	98
UN16-140	155	UN21-114	156	UN42-10	158	UT3SP	98
UN16-152	155	UN21-140	156	UN42-12	158	UT3SPH	98
UN16-165	155	UN21-165	156	UN42-16	158	UT3TGH	98
UN16-178	155	UN21-219	156	UN42-20	158	UT5-150	99
UN16-190	155	UN21-273	156	UN43	158	UT5-300	99
UN16-203	155	UN21-324	156	UN44	159	UT5-450	99
UN16-219	155	UN21-356	156	UN44-16	159	UT5-600	99
UN16-230	155	UN21-406	156	UN44-20	159	UT5HDB	100
UN16-240	155	UN21-457	156	UN44-24	159	UT5HDBH	100
UN16-250	155	UN21-508	156	UNCL	159	UT5LP	100
UN16-273	155	UN30	157	UNCL-10	159	UT5LPH	100
UN16-324	155	UN30-168	157	UNCL-12	159	UT5RP	100
UN18	155	UN30-219	157	UNCL-16	159	UT5RPH	100
UN18-060	155	UN30-273	157	UNCL-20	159	UT5SP	100
UN18-076	155	UN30-324	157	UNLP	159	UT5SPH	100
UN18-089	155	UN30-356	157	UNLP08	159	UT5TGH	100
UN18-102	155	UN30-406	157	UNLP10	159	UT940	98, 100
UN18-114	155	UN30-457	157	UNLP12	159	UT940MG	98, 100
UN18-127	155	UN30-508	157	UNLP16	159	UTCHD	96, 98, 100
UN18-140	155	UN31	157	UNLP20	159	UTCHDH	96, 98, 100
UN18-152	155	UN31-168	157	UR06	34	Ventilated Covers	75, 88
UN18-165	155	UN31-219	157	UR08	34	WN10MG	77
UN18-178	155	UN31-273	157	UR10	34	WN10SS	90
UN18-203	155	UN31-324	157	UR12	34	Z10	160
UN18-219	155	UN31-356	157	UR16	34		
UN18-230	155	UN31-406	157	UR20	34		
UN20	156	UN31-457	157	USB045	33		
UN20-021	156	UN31-508	157	USB076	33		
UN20-027	156	UN31-610	157	USB102	33		
UN20-034	156	UN35 12-M10	157	UT1-075	95		
UN20-043	156	UN25-16-M12	157	UT1-100	95		
UN20-048	156	UN35-20-M16	157	UT1-150	95		
UN20-060	156	UN35-24-M20	157	UT1-225	95		
UN20-076	156	UN35-30-M24	157	UT1-300	95		
UN20-089	156	UN35-36-M30	157	UT1HDB	96		
UN20-114	156	UN37	157	UT1HDBH	96		
UN20-165	156	UN37-06	157	UT1LP	96		
UN20-219	156	UN37-10	157	UT1LPH	96		
UN20-273	156	UN37-12	157	UT1RP	96		
UN20-324	156	UN37-16	157	UT1RPH	96		
UN20-356	156	UN38-06	157	UT1SP	96		
UN20-406	156	UN38-10	157	UT1SPH	96		
UN20-457	156	UN38-12	157	UT1TG	96		
UN20-508	156	UN38-16	157	UT1TGH	96		
UN20-610	156	UN39	158	UT3-150	97		
UN21	156	UN39-10	158	UT3-300	97		
UN21-21	156	UN39-12	158	UT3-450	97		
UN21-27	156	UN39-16	158	UT3-600	97		

# UNISTRUT® KEYWORD INDEX

Keyword	Page
12A Splice Plate	73, 87
16A Splice Plate	73
20A Splice Plate	87
20B Splice Plate	73
20C Splice Plate	73, 87
90° Bends - Cutting Diagrams	125-126
90° Bends - Forming Instructions	125
90° Long Radius Bend	124
90° Short Radius Bend	125
Accessory Assembly	106
Accessory Covers	76, 89
Acrofil® Assembly	106
Acrofil® Overview	104
Acrofil® Specification	131
Acrofil® System	105-109
Adjustable Brace Fittings	42
Adjustable Riser	69
Adjustable Riser - AL	84
AF-Clip	130
AF-Splice	110
Aluminium Closure Strip	22
Aluminium Strut	23
Angle Bracket	142
Angle Iron Clamp Plate	147
Back-to-Back Channel Pendant	118
Beam and Column Loads	9, 24-28
Beam Clamps	43-44, 161
Beam Clip	159
Beams Fixed at Both Ends	51
Beams Fixed One End, Supported at Other	51
Bend and Intersection Bars	110
Blind End	121
Bracket	119
Built In Splice	87
Cable Duct Elbow	132
Cable Duct End Cap	133
Cable Duct Equal Cross	133
Cable Duct Equal Tee	132
Cable Duct Inside Riser	133
Cable Duct Outside Riser	133
Cable Duct Straight Length	132
Cable Ladder Cover Fixings	76, 89

Keyword	Page
Cantilever Beams	51
Cantilever Brackets	41-42
Cantilever Brackets - General information	40
Cantilever Heavy	116
Cantilever Medium	116
Cast Iron Pipes - Class K9	162
Ceiling Clip	115
Centre Hold Down Clamp	96, 98, 100
Clevis Hanger	159
Combination Struts	19-21
Concrete Inserts	29-31
Conduit Clamp	138
Conduit End Connector	46
Conduit Hanger Fitting	46
Cone Point Set Screw	34
Connector Hardware	111-112
Connector Hardware Overview	111
Connector Kit	111-112
Copper Tube	162
Countersunk Head Screw	34, 48
Covers	75-77, 88-90, 120
Cover Straps	77, 90
Cross	68, 127
CUSH-A-CLAMP®	153
Custom Made Tray Examples	109
Cutting Tool	123
Design Load Data - Typical Strut Connection	52
Divider Strip	73, 74, 86-87
Double Cable Clamp	139
Double Rod Reinforced Tray	107
Drop In Anchor	34, 160
Drop Out	120
Drop Rod Clip	114
Dynabolts	160
Earth Kit	77, 90
Electrical Box Bracket	122
Engineering Data (Beam Formulae)	51
Engineering Data (Bearing and Design Load)	50
Engineering Data (Conversion Factors)	52
Engineering Data - Load Chart	55-56
Engineering Data (Slip and Pullout)	49
Expansion Hold Down Bracket	86

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## KEYWORD INDEX

Keyword	Page
External Riser 90°	69
External Riser 90° - AL	84
Eye Nuts	157
Fast Clip 304SS	130
Fasteners	74, 87
Fault Rated Cleats	135
Flat Bend 90°	68
Flat Bend 90° - AL	83
Flat Covers	75, 88
Flat Cross - AL	83
Flat Plate Fitting	50
Fixture Hanging Fitting	46
Fixture Stud Nut	33, 48
Flat Washers	34
Fluorescent Fixture - Support Applications	47
Fittings - 90° Angle	36-37
Fittings - Angular	37
Fittings - Electricals	46
Fittings - Flat Plate	35-36
Fittings - Fluorescent	48
Fittings Overview	123
Fittings - Post Bases	39
Fittings - 'U' Shaped	39
Fittings - Wing Shape	38-39
Fittings 'Z' Shaped	37-38
Galvanised Pipe	162
Grounding	129
Grounding Clamp/Spilt Bolt	129
Grounding Clip	129
Gusset	96, 98, 100
Hanger	117
Hanger Strap	159
Hanging Bracket	119
Hardware	96, 98, 100
HDG Clamps	77
Heavy Duty Beam Clamp	145
Heavy Duty Hook Bolt	145
Heavy Duty Insert	30
Heavy Duty Saddle Clamp	157
Heavy Duty Two-Piece Pipe Clamp	157
Hex Head Set Screws	34
Hexagon Nuts	34

Keyword	Page
Hinged Horizontal Splice	72, 86
Hinged Vertical Splice	72, 86
Hold Down Brackets	72-73, 74, 87, 96, 98, 100
Hook Bolt and Wing Nut	77, 90
How To Use Load Tables	52-53
Interface Spacer	86
Internal Riser 90°	69
Internal Riser 90° - AL	84
Joiner Fittings	47-48
Joint Cover	30
Lighting Bracket	122
Light Duty Beam Clamp	146
Light Duty Deep Saddle	144
Light Duty Hook Bolt	146-147
Light Duty One-Piece Pipe Clamps	149
Light Duty Pear Hanger	149
Light Duty Pipe Clamps	150
Light Duty Pipe Saddle Clamps	144
Light Duty Single Bolt Strut Clamp	151
Light Duty Twist Clip	142
Light Duty Two Piece Pipe Clamps	150-151
Link Plate	96, 98, 100, 159
Machine Thread Rod	158
Medium Duty Saddle Clamp	154
Medium Duty Three Bolt Pipe Clamp	156
Medium Duty Two-Piece Pipe Clamp	155
Medium Duty Vertical Pipe Clamp	156
Metal Cable Duct	132
NEMA 12 Aluminium Cable Ladder	57, 79
NEMA 12B Steel Cable Ladder	57, 64
NEMA 16 Aluminium Cable Ladder	57, 80
NEMA 16A Steel Cable Ladder	57, 65
NEMA 20 Aluminium Cable Ladder	57, 81
NEMA 20B Steel Cable Ladder	57, 66
NEMA 20C Aluminium Cable Ladder	57, 82
NEMA 20C Steel Cable Ladder	57, 67
NEMA Aluminium Cable Ladder Fasteners	87
NEMA Cable Ladder - Accessories Supports	91
NEMA Cable Ladder - Aluminium	78
NEMA Cable Ladder - General Information	58-60
NEMA Cable Ladder - Steel	63
NEMA Steel Cable Ladder - Fasteners	74

# UNISTRUT®

## KEYWORD INDEX

Keyword	Page
Offset	128
Offset Reducer LH	70
Offset Reducer LH - AL	85
Offset Reducer RH	70
Offset Reducer RH - AL	85
Pan Head Screws	34
Peaked Covers	75, 88
Pendant	115
Pipe Beam Clamp	148
Pipe Supports	152
Plastic Closure Strip	22
Pressure Pipe - ANSI Sch 40 - API Std. Wt. (up to 200 NS)	162
Pressure Pipe - ANSI Sch 80 - API XS (up to 200 NS)	162
Purlin Clamp	142, 160
PVC Pressure Pipe - Class 6	162
PVC Pressure Pipe - Class 12	162
QF Series Quadfoil	138
Radius Plate	96, 98, 100
Reducer	128
Reducer Splice	71, 86
Rigid Hold Down Bracket	86
Risers	128
Riteway Bend	102
Riteway Cross	103
Riteway External Riser	103
Riteway Internal Riser	102
Riteway Tee	103
Riteway Tray	102
Rod Couplers	34
Rod Hanger Mountain Plate	161
Safe Bearing Loads	50
Self Splicing Accessories	74, 87
Self-Splicing Straight Lengths	106
Shakeproof Lock Washers	34
Sheathed Cable Clamp	139
Simple Beams	51
Single Cable Clamp	139
Single Channel Pendant	118
Slip and Pullout Performance - Aluminium Load Data	49
Slip and Pullout Performance - Stainless Steel	49
Slip and Pullout Performance - Zinc Plated	49
Slotted Angle	143

Keyword	Page
Slotted Hex Head Set Screws	34
Slotted Hex Head Screw	48
Spacer Clevis	46
Spherical Washer	157
Splice Fitting	47
Splice Plates	72, 74, 86, 96, 98, 100
Spring Washers	34
Square Washer	158
SS Clips	77, 90
Stainless 316 Strut	23
Standard Covers	75, 88
Standard Tee	127
Straight Reducer	71
Straight Reducer - AL	85
Strut End Caps	22
Strut - General Engineering Data	9
Strut - General Specifications	8
Strut Nuts	32
Strut Nuts with Springs	32
Strut Nuts without Springs	33
Strut - Special Metals	23
Stud Bolt	33
Stud Nut	32
Support Bracket Medium	113
Swivel Cage	157
Swivel Nut	43
TB - Light Duty Trapeze Bracket	101
Tee	68
Tee - AL	83
TF Series - Trefoil	138
Tray Clips	130
Tray Dividers	120
Triple Rod Reinforced Tray	108
Trolley Assemblies	45
Trolley Support	45
Trunking Nuts	48
Turnbuckles	158
U Bolts	148, 154
U Bracket	142
UNI-CUSHION® and Cutting Guide	152
Unicleats	135-139
Unicleat Single Cable Cleat	137

# UNISTRUT®

## KEYWORD INDEX

Keyword	Page
Unicleat Trefoil Cable Cleat	136
Uniform Working Column Loads	56
Uniform Working Load For Simply Supported Beams	55
Unirod Steel Threaded Rod	34
Unistrut® Column Loading	52
UNI-TRAY® Bend	101
UNI-TRAY® External Riser	101
UNI-TRAY® Internal Riser	101
UNI-TRAY® Tee	101
U Support Bracket	113
UT1 Accessories	96
UT1 UNI-TRAY®	95
UT3 Accessories	98
UT3 UNI-TRAY®	97
UT5 Accessories	100
UT5 UNI-TRAY®	99
Ventilated Covers	75, 88
Wall Bracket	117
Wall Clip	115
Webfix Bolt Side Hanger	160
Weld On Bracket	158
Wing Nut	90
Wire Retainer	47
Zed	116
Z Hold Down Bracket	86, 90
Z Purlin Clamp	160

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