

Fittings - 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

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

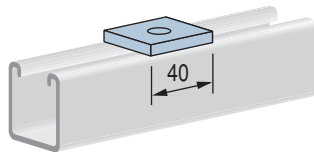
Design Bolt Torque

Refer to Engineering Data (See Page 118).

Finishes

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

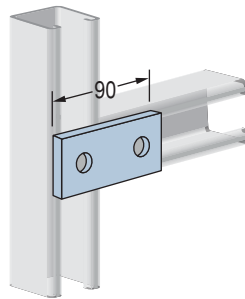
P1062 - P1964



Part No.	Bolt Size	Hole Size	Mass kg/100
P1062	8	9	7.0
P1063	10	12	6.8
P1064	12	14	6.6
P1964	16	18	6.4

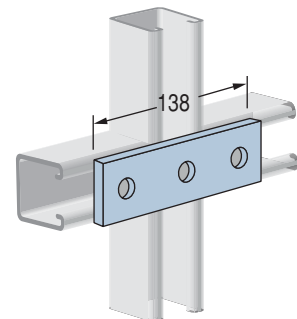
P1065

Mass: 16kg/100



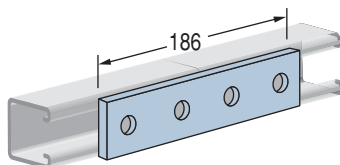
P1066

Mass: 24kg/100



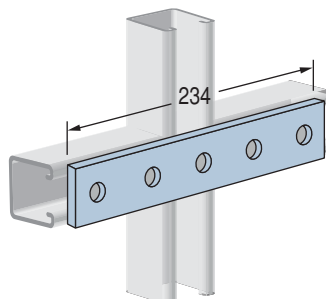
P1067

Mass: 32kg/100



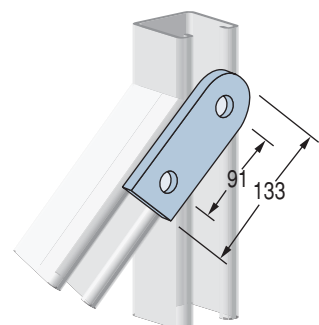
P1941

Mass: 41kg/100



P2325

Mass: 23kg/100

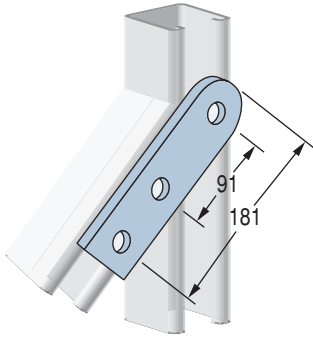


<p>Standard Dimensions for 41mm width series channel fittings (Unless Otherwise Shown on Drawing)</p> <p>Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm; Thickness: 6mm</p>

UNISTRUT FITTINGS - FLAT PLATE & 90° ANGLE

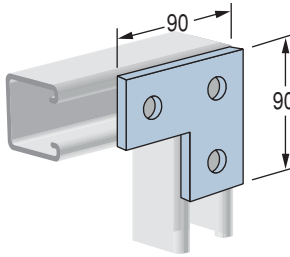
P2324

Mass: 31kg/100



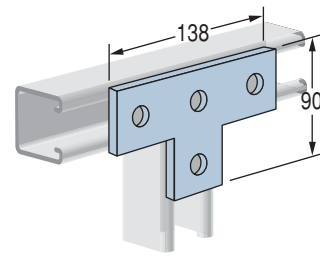
P1036

Mass: 25kg/100



P1031

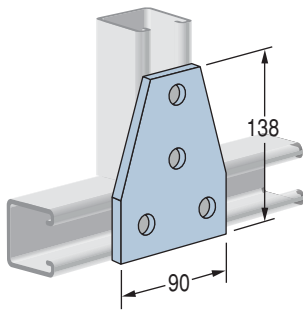
Mass: 35kg/100



Unistrut Systems

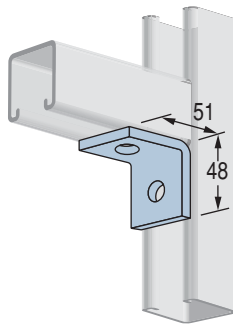
P1358

Mass: 48kg/100



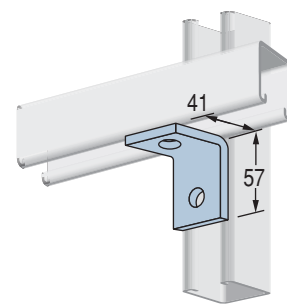
P1026

Mass: 17kg/100



P1068

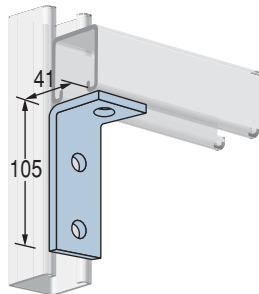
Mass: 17kg/100



Fittings

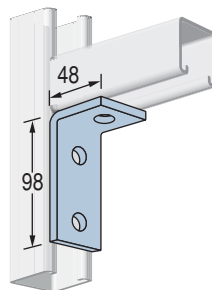
P1326

Mass: 24kg/100



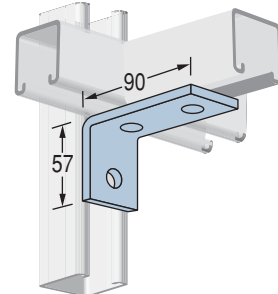
P1346

Mass: 24kg/100



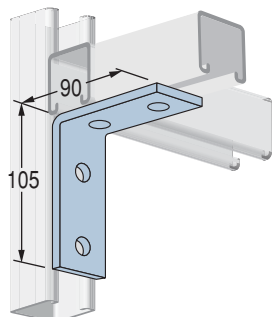
P1458

Mass: 24kg/100



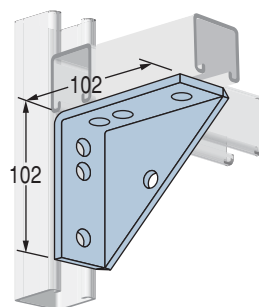
P1325

Mass: 33kg/100



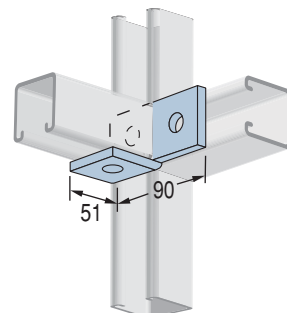
P2484

Mass: 61kg/100



P1038

Mass: 25 kg/100



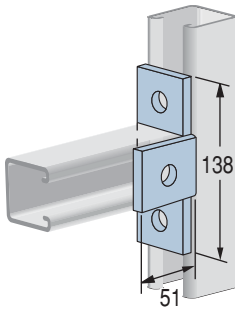
Standard Dimensions for 41mm width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm; Thickness: 6mm

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

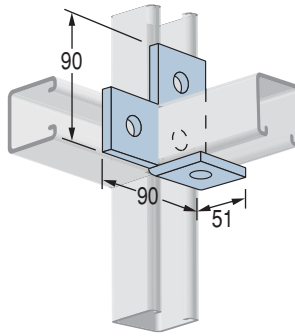
P1033

Mass: 35kg/100



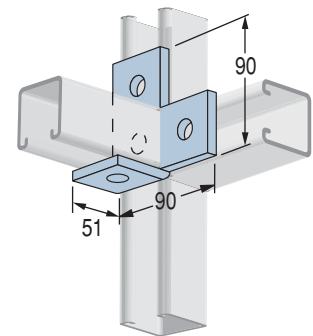
P1034

Mass: 35kg/100



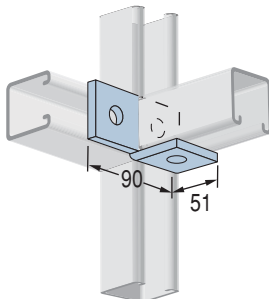
P1035

Mass: 35kg/100



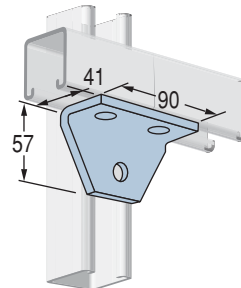
P1037

Mass: 25kg/100



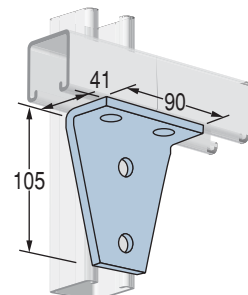
P1357

Mass: 32kg/100



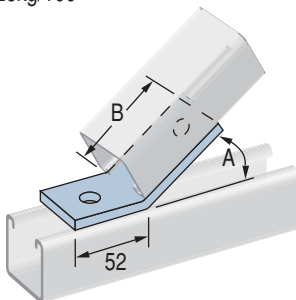
P1359

Mass: 48kg/100



P2101 & P2103

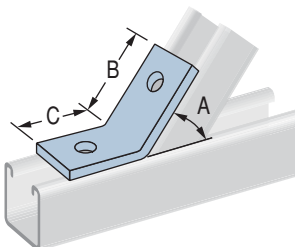
Mass: 26kg/100



Part No.	A	B
P2101	30	83
P2103	15	84

P1546, P2095, P2097

Mass: 26kg/100

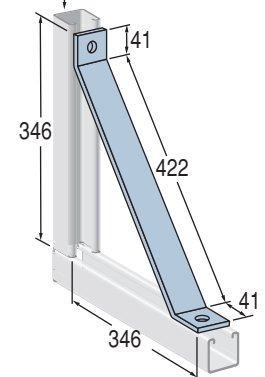


Part No.	A	B	C
P2095	75	91	43
P2097	60	86	48
P1546	45	76	60

P2452

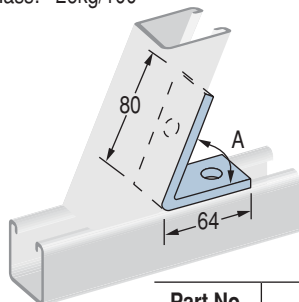
Mass: 103kg/100

Design Axial Load - 5.36kN



P1186, P2106, P2108

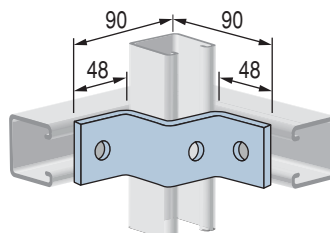
Mass: 26kg/100



Part No.	A
P1186	45
P2106	75
P2108	60

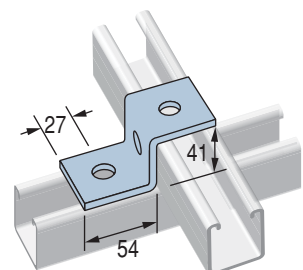
P1736

Mass: 27kg/100



P1045

Mass: 24kg/100



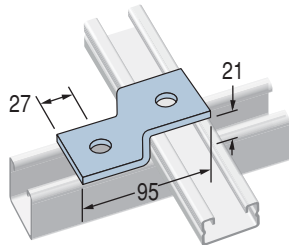
Standard Dimensions for 41mm width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm; Thickness: 6mm

UNISTRUT FITTINGS - "Z" & "U" SHAPE

P4045

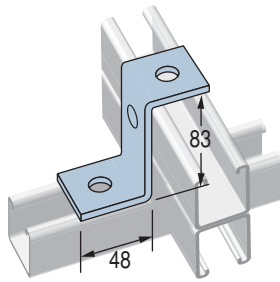
Mass: 20kg/100



P4000 Shown

P1453

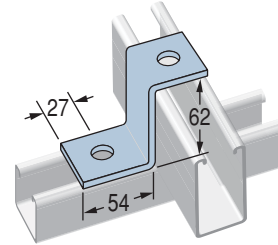
Mass: 30kg/100



P1001 Shown

P5545

Mass: 29kg/100

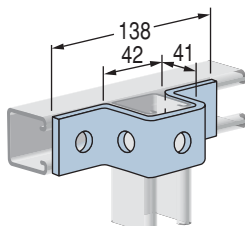


P5500 Shown

Unistrut Systems

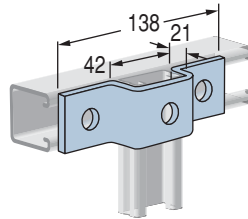
P1047

Mass: 37kg/100



P4047

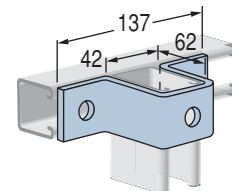
Mass: 30kg/100



P4000 Shown

P5547

Mass: 47kg/100



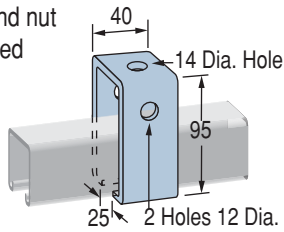
P5500 Shown

Fittings

P1834

Mass: 46kg/100

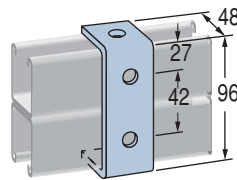
M10 x 70
bolt and nut
included



Design Load: 5.34kN
Channel Trolley Support

P1044

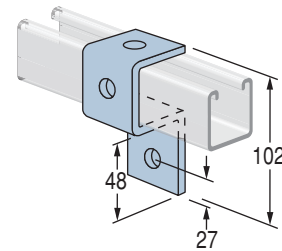
Mass: 30kg/100



P1001 Shown

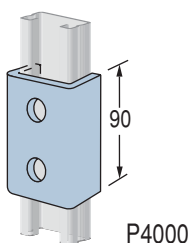
P1046

Mass: 35kg/100



P4376

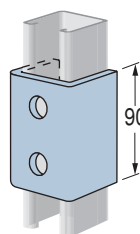
Mass: 38kg/100



P4000

P1376

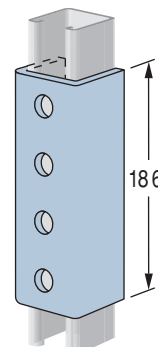
Mass: 56kg/100



P1000

P1377

Mass: 115kg/100



P1000

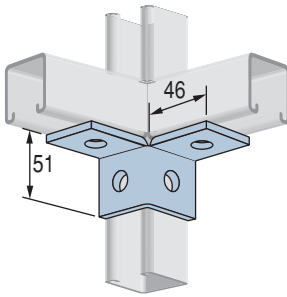
Standard Dimensions for 41mm width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm; Thickness: 6mm

UNISTRUT FITTINGS - WING SHAPE, STAIR SUPPORT, POST BASES

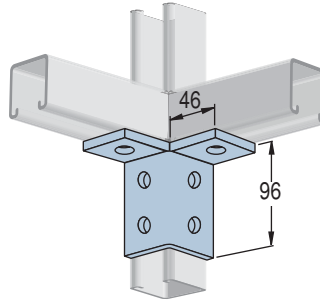
P2223

Mass: 34kg/100



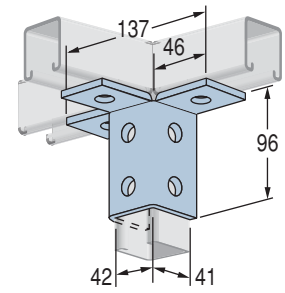
P2224

Mass: 50kg/100



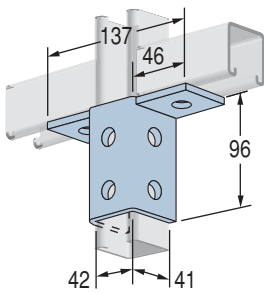
P2228

Mass: 78kg/100



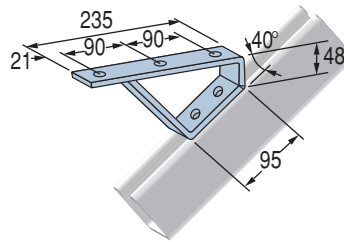
P2346

Mass: 66kg/100



P2655

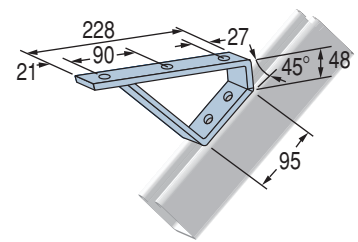
Mass: 95kg/100



40° Star Tread Support

P1944

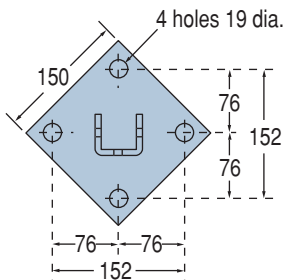
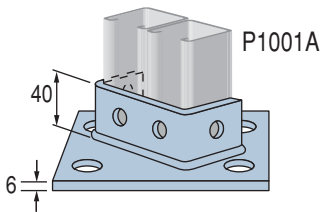
Mass: 96kg/100



45° Star Tread Support

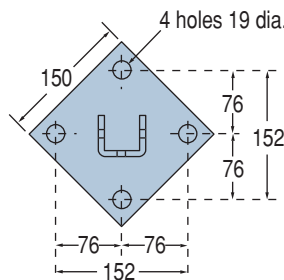
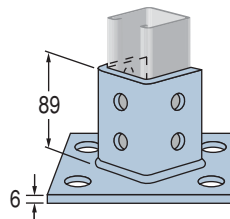
P2073

Mass: 140kg/100



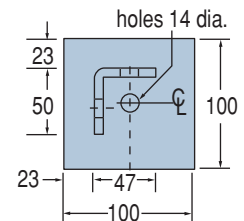
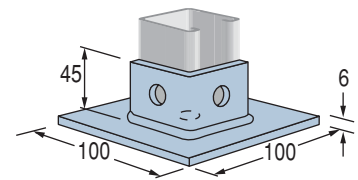
P2072A

Mass: 164kg/100



P2072S1

Mass: 62kg/100



Unistrut Systems

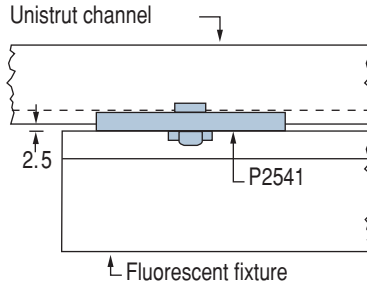
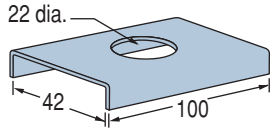
Fittings

Standard Dimensions for 41mm width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 14mm; Hole Spacing - From End: 21mm; Hole Spacing - On Center: 48mm; Width: 40mm; Thickness: 6mm

UNISTRUT FITTINGS - ELECTRICAL

P2541 - Spacer Clevis

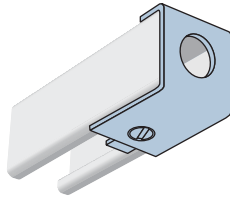
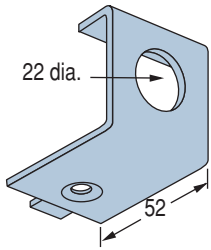


Unistrut Systems

P2521 - Conduit End Connector

Mass: 12kg/100

Finish: Zinc Plated

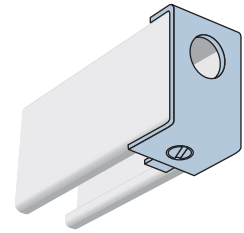
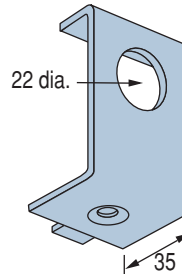


Fitted to end of trunking for attachment of electrical conduit. P2521 for use with P1000 and P2000 Channels. Countersunk head screw and clamping nut included.

P5521 - Conduit End Connector

Mass: 12kg/100

Finish: Zinc Plated

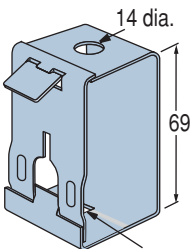


Fitted to end of trunking for attachment of electrical conduit. P5521 for use with P5500 Channel. Countersunk head screw and clamping nut included.

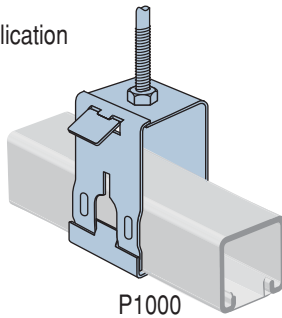
Fittings

P2855

Mass: 19kg/100



Application



Square hole for M6 x 25 Carriage bolt and nut

P1000

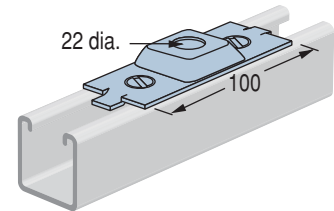
P2000

Design Load: 0.5kN
Finish: Zinc Plated

P2535 - Conduit Hanger Fitting

Mass: 13kg/100

M6 x 15 Countersunk screws and P3016 nuts included

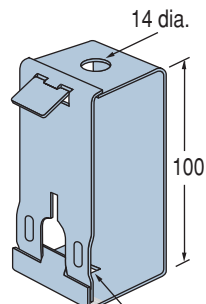


Conduit hanger fitting for rigid attachment to Unistrut channel.

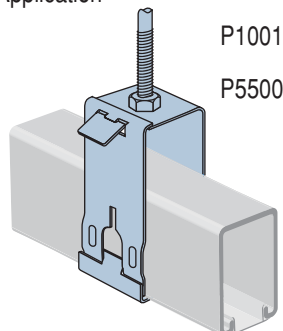
Design Load: 0.5kN
Finish: Zinc Plated

P2755

Mass: 30kg/100



Application



P1001

P5500

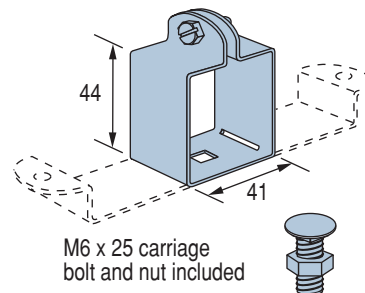
Square hole for M6 x 25 Carriage bolt and nut

Design Load: 0.5kN
Finish: Zinc Plated

P2539 - Fixture Hanger Fitting

Mass: 11kg/100

M6 x 20 screw and nut included.



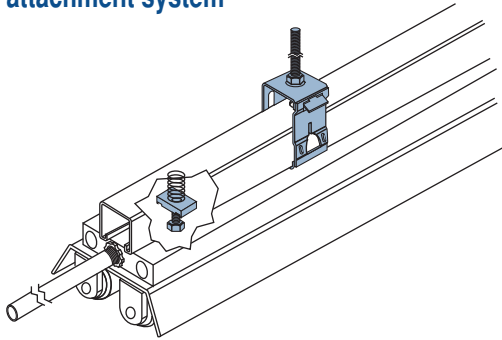
M6 x 25 carriage bolt and nut included

Design Load: 0.5kN
Finish: Zinc Plated

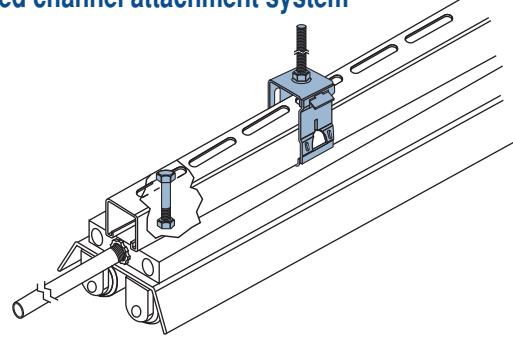
Fluorescent hanger fittings provide a means of mounting fixtures to Unistrut. They are shipped flat and are easily bent to form around the Unistrut channel. For use with P1000 and P2000 Unistrut channels.

Fluorescent Fixture – Support Applications

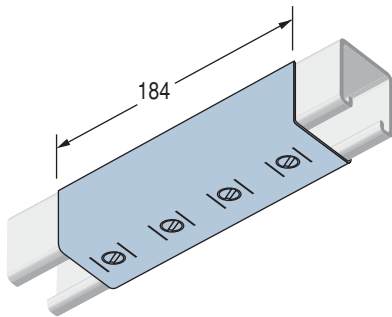
Spring-Nut attachment system



Slotted channel attachment system



P2377 - Splice Fitting

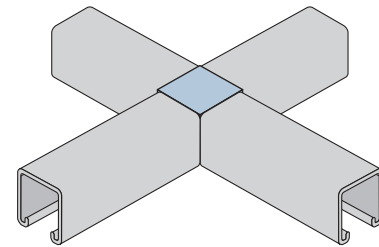


For joining together continuous runs of trunking channel. P2377 external 41 deep, for use with P1000 and P2000 trunking. Four P3016 (page 106) clamping nuts and four M6 x 15 countersunk head screws should be ordered with each fitting.

Finish: Zinc Plated
Mass: 25kg/100

Joiner Fittings

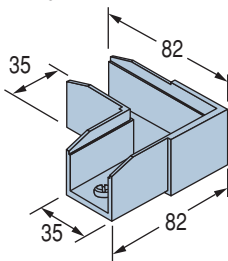
Cast aluminium fittings designed to fit inside the channel section and provide a continuous profile on external surfaces. Fittings are secured to the channel by a pre-installed screw and washer assembly. Closure strip can be clipped into channel and extended over the fitting to complete a neat installation.



Typical Assembly

P2902 Two Way

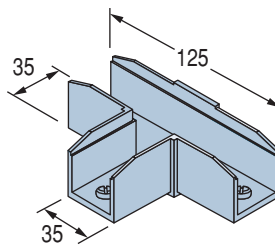
Mass: 12.2kg/100



Socket Cup Point Set Screws Included
Material: Cast aluminum.

P2901 Three Way

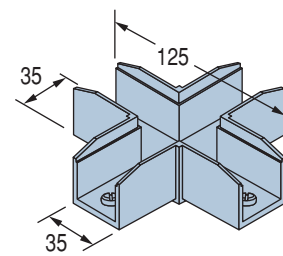
Mass: 15.9kg/100



Socket Cup Point Set Screws Included
Material: Cast aluminum.

P2903 Four Way

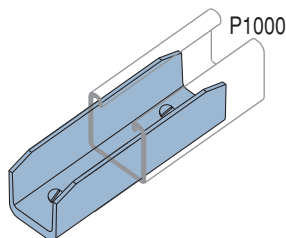
Mass: 20.4kg/100



Socket Cup Point Set Screws Included
Material: Cast aluminum.

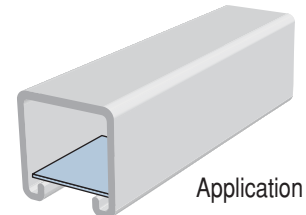
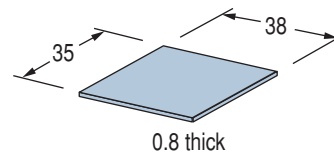
P2900 One Way

Mass: 9.1 kg/100



Socket Cup Point Set Screws Included
Material: Cast aluminum.

P2552 -Wire Retainer [Fibre]

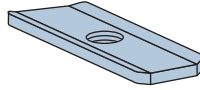


Wire retainer is pushed into Unistrut Channel to support wires until the Closure Strip is installed.

UNISTRUT - FLUORESCENT FIXTURE FITTINGS

P3016 - Trunking Nuts

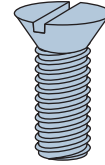
Mass: 1kg/100



For the fixing of fittings and accessories
6mm diameter

CKS0615 - Countersunk Head Screw

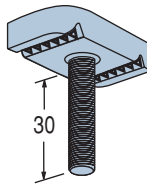
Mass: 0.3kg/100



Size: M6 x 15

P3116 - Fixture Stud Nut

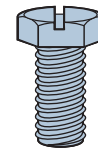
Mass: 3.5kg/100



Size: M6 x 30

SHS0620 - Slotted Hex Head Screw

Mass: 0.6kg/100



Size: M6 x 20

Loading Data

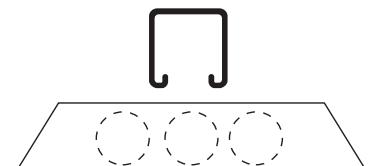
1 x 36W 6kg	2 x 36W 9kg	3 x 36W 12kg	4 x 36W 14kg	1 x 58W 8kg	2 x 58W 13kg

Unistrut Channel and Spacing of 1220mm
Long Fluorescent Fixtures.

Hanger Rod Spacing In Metres

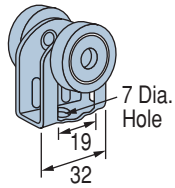
		Hanger Rod Spacing In Metres					
		1 x 36W 6kg	2 x 36W 9kg	3 x 36W 12kg	4 x 36W 14kg	1 x 58W 8kg	2 x 58W 13kg
P1000	Continuous run of fittings	4.1	3.8	3.6	3.6	3.9	3.5
	Fittings 600mm apart	4.4	4.1	3.9	3.8	4.2	3.9
	Fittings 1200mm apart	4.5	4.3	4.1	4.0	4.4	4.1
P2000	Continuous run of fittings	4.0	3.7	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 Channel opening on the underside.

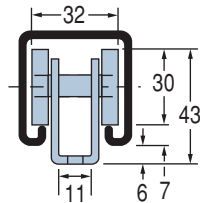


P2749

Mass: 10kg/100

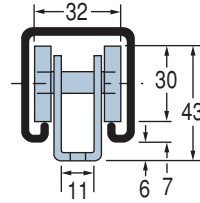
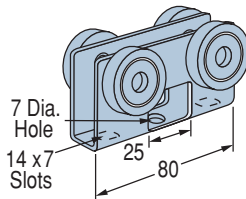


Clevis 2.5mm



P2750

Mass: 22kg/100

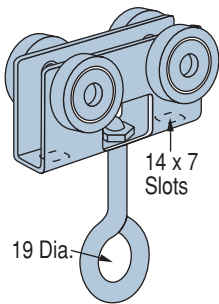


Loads (kN)

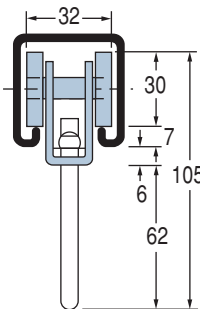
Part No.	Wheel – Steel Ball Bearing Approx. Design Load kN
P2749	0.22
P2750	0.45
P2751	0.45

P2751

Mass: 26kg/100

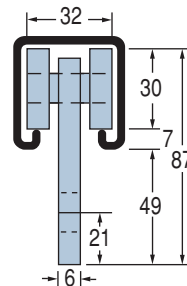
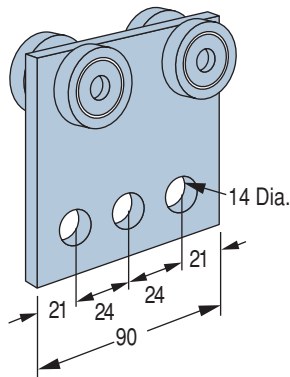


Clevis 2.5mm



P2950

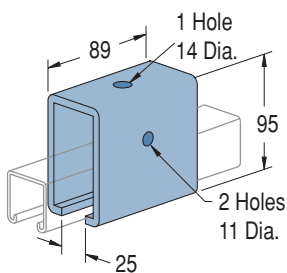
Mass: 48kg/100



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

P1834A – Trolley Support

Mass: 46kg/100

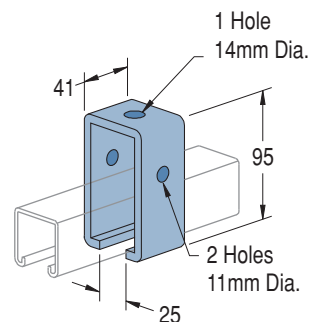


M10 x 70 Bolt & Nut Included

Design Load - 11.12kN

P1834 – Trolley Support

Mass: 46.3 kg/100



M10 x 70 Bolt & Nut Included

Design Load - 5.34 kN