Technical Data Sheet

P3300

Product Description:

Atkore Unistrut P3300 Channel. Part of the original Unistrut Metal Framing System, which is 100% reusable due to its flexibility, adaptability, and versatility.

Features:

- Available in either slotted or plain channels, to accommodate for a range of applications.
- 2m in length that can be cut to size.
- Material thickness is 2.5mm and the internal slot width is 22mm.
- Slots are sized for an inch Threaded Rod or Fastener
- Suitable for a range of applications
- Quick and easy to install.
- Made using galvanised steel, providing a secure and durable fixture.

Standards:

- Mild Steel (PL)& Hot Dip Galvanised (HG) to AS/NZS1365, AS1594, AS/NZS4680, ISO1461
- Pre-Galvanised (GB)(TG) to AS1397
- Stainless Steel (SS) to AS1449, AS2837

Applications:

- Data Centers
- Renewables
- Infrastructure
- Commercial buildings
- Shopping Centers
- Warehouse & distribution

Finishes:

- TrueGalv [TG]
- Galvabond [GB]
- 316 Stainless Steel [SS]
- Hot-Dip Galvanised [HG]
- Plain [PL]

Note: Before using Atkore Unistrut Strut, it's essential to consult the manufacturer's specifications and guidelines to ensure proper installation and performance in your specific application.

Australia: 1300 ATKORE (285 673)
www.atkore.com.au

New Zealand: (09) 573 2490
www.unistrut.co.nz

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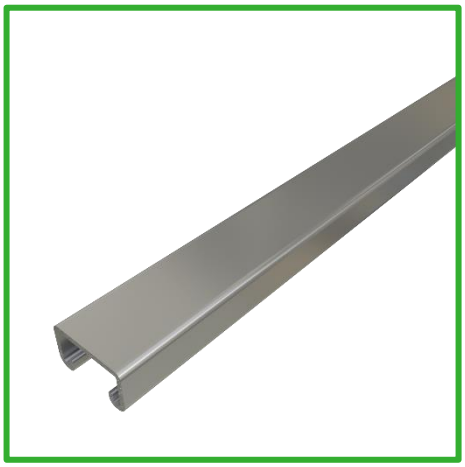
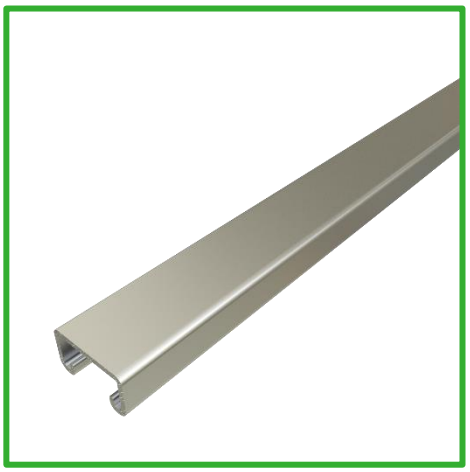
Finishes:



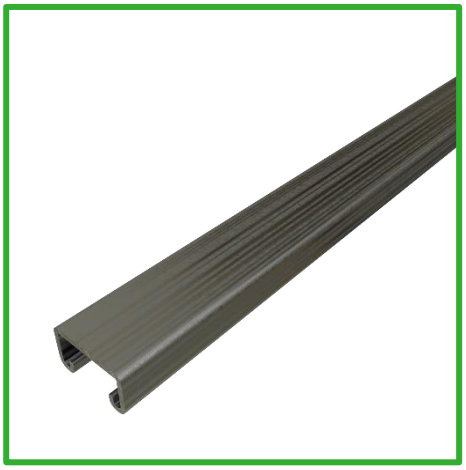
TrueGalv
(TG)

Galvabond
(GB)



Stainless Steel
(SS)

Hot Dip Galvanised
(HG)



Plain
(PL)

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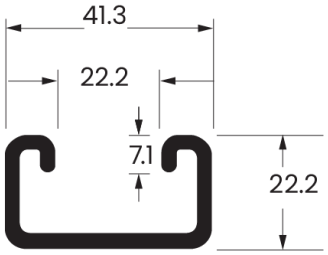
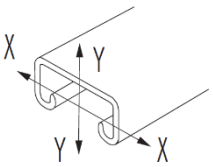
Dimensions:





A - 232mm²
kg/m - 1.82kg/m
I x-x = 0.013 10⁶mm⁴
Z x-x = 0.999 10³mm³
r x-x = 7.6mm
I y-y = 0.055 10⁶mm⁴
Z y-y = 2.661 10³mm³
r y-y = 15.4mm

Note: All dimensions shown are in millimeters.

Australia		New Zealand				
Cat No	**Mat No**	**Cat No**	**Mat No**	**Description**	**Material thickness**	**Weight**
P3300-PL	3000084	P3300-PL	2095805	P3300 PLAIN 6M LENGTH	2.5MM	1.82kg/m
P3300-GB	3000083	P3300-GB	2075646	P3300 GALVABOND 6M LENGTH	2.5MM	1.82kg/m
P3300-TG	4039706	P3300-TG	2219301	P3300 TRUEGALV 6M LENGHT	2.5MM	1.82kg/m
P3300-HG	4001172	P3300-HG	2095288	P3300 HOT DIP GALVANISED 6M LENGTH	2.5MM	1.82kg/m
P3300-SS	3000085	P3300-SS	2093489	P3300 STAINLESS STEEL 316 6M LENGTH	2.5MM	2.09kg/m

Load Rating & Deflection:

Length (mm) 	Max. Allowable Load (kg) 	Deflection at Allowable Load (mm) 	Max. Allowable Column Load (kg) 
250	563.27	0.42	3556.77
500	281.63	1.68	2830.73
750	187.76	3.79	1980.29
1000	140.82	6.74	1231.82
1250	112.24	10.53	805.58
1500	93.88	15.16	566.96
1750	80.61	20.63	-
2000	70.41	26.95	-
2250	62.24	34.11	-
2500	56.12	42.11	-
2750	51.02	50.95	-
3000	46.94	60.63	-

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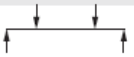
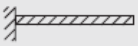
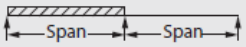
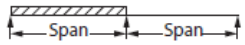
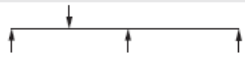
Conversion factors

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: