Atkore
Unistrut Flexicon

Technical Data Sheet

P2000

Product Description:

Atkore Unistrut P2000 Channel. Part of the original Unistrut Metal Framing System, which is 100% reusable due to its flexibility, adaptability, and versatility.



Features:

- The channel edges and nut's tapered grooves serve as guides, ensuring a positive alignment of the connection.
- The nut's teeth firmly grip the channel's inturned edges, creating a robust "box" configuration that enhances overall strength by tying the channel sides together.
- The longitudinal movement of the nut is effectively resisted, as hardened teeth bite into the inturned edges, further securing the connection.

Standards:

- Mild Steel (PL)& Hot Dip Galvanised (HG) to AS/NZS1365, AS1594, AS/NZS4680, ISO1461
- Pre-Galvanised (GB)(TG) to AS1397
- Aluminium (AL) to AS1231

Applications:

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

Finishes:

- TrueGalv [TG]
- Galvabond [GB]
- Aluminium [AL]
- Hot-Dip Galvanised [HG]
- Plain [PL]

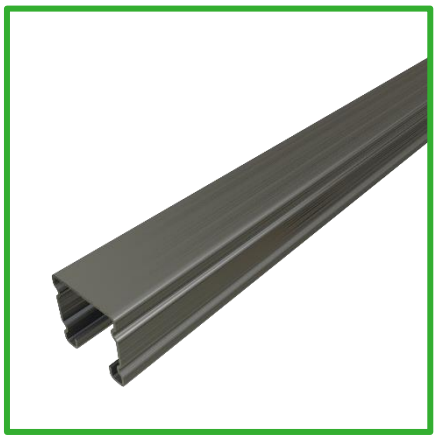
Note: Before using Atkore Unistrut Strut, it's essential to consult the manufacturer's specifications and guidelines to ensure proper installation and performance in your specific application.

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

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

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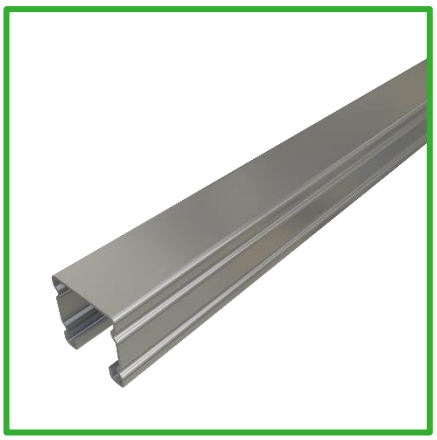
Finishes:



Plain
(PL)



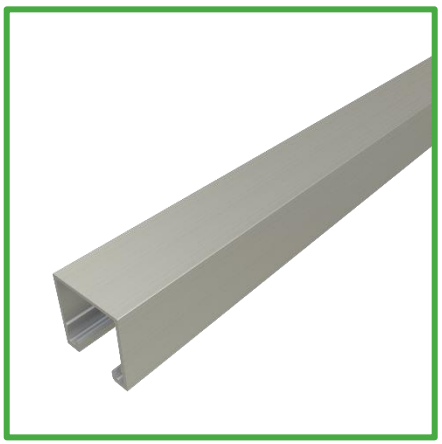
Galvabond
(GB)



TrueGalv
(TG)



Hot Dip Galvanised
(HG)

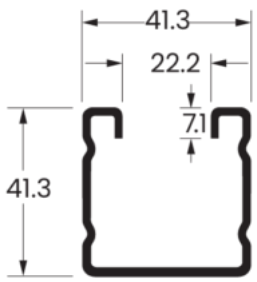


Aluminium
(AL)

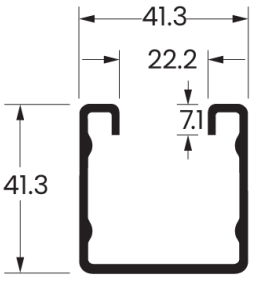
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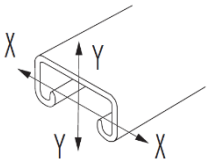
Dimensions:



P2000



P2000-AL



A - 228mm²
kg/m - 1.79kg/m
I x-x = 0.052 10⁶mm⁴
Z x-x = 2.297 10³mm³
r x-x = 15.2mm
I y-y = 0.065 10⁶mm⁴
Z y-y = 3.143 10³mm³
r y-y = 16.9mm

Note: All dimensions shown are in millimeters.

Australia		New Zealand				
Cat No	**Mat No**	**Cat No**	**Mat No**	**Description**	**Material thickness**	**Weight**
P2000-PL	3000071	P2000P	2075441	P2000 SLOTTED PLAIN 6M LENGTH	1.6MM	1.79kg/m
P2000-GB	3000070	P2000G	2082313	P2000 SLOTTED GALVABOND 6M LENGTH	1.6MM	1.79kg/m
P2000-HG	4000971	P2000H	2099602	P2000 SLOTTED HOT DIP GALVANISED 6M LENGTH	1.6MM	1.79kg/m
P2000-TG	4039705	NA		P2000 TRUEGALV 6M LENGHT	1.6MM	1.79kg/m
P2000-AL	4000970	P2000AL	2076321	P2000 ALUMINIUM 6M LENGTH	1.6MM	0.77kg/m

Load Rating & Deflection:

Length (mm) 	Max. Allowable Load (kg) 	Deflection at Allowable Load (mm) 	Max. Allowable Column Load (kg) 
250	1051	0.2	3356.91
500	618	0.94	2707.35
750	412	2.12	1958.87
1000	309	3.77	1316.45
1250	247	5.89	920.8
1500	206	8.48	702.58
1750	177	11.54	566.96
2000	157	15.32	475.19
2250	138	19.07	409.93
2500	123	23.55	359.96
2750	112	28.49	320.19
3000	103	33.91	287.56

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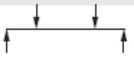
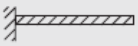
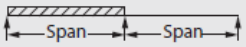
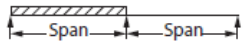
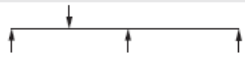
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Conversion factors

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:

