

Technical Data Sheet

P2000T

Product Description:

Atkore Unistrut P2000T Channel contains slots along the length of the channel to easily attach to other products and fixings. Part of the original Unistrut Metal Framing System, which is 100% reusable due to its flexibility, adaptability, and versatility.

Features:

- Channel edges and nut's tapered grooves act as guides to provide positive alignment of connection.
- Nut teeth grip the channel'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.

Standards:

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

Finishes:

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



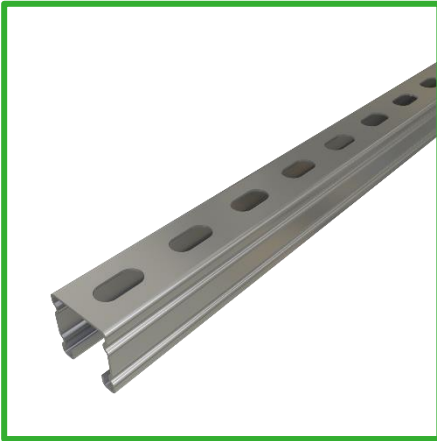
Applications:

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

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.

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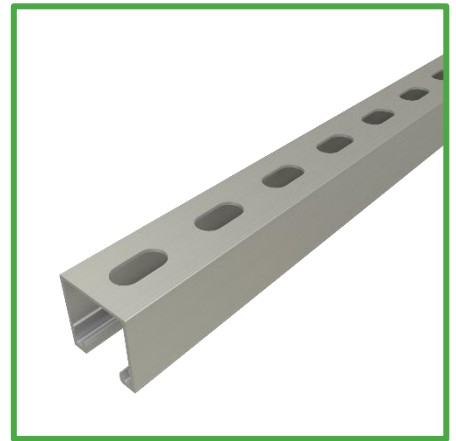
Finishes:



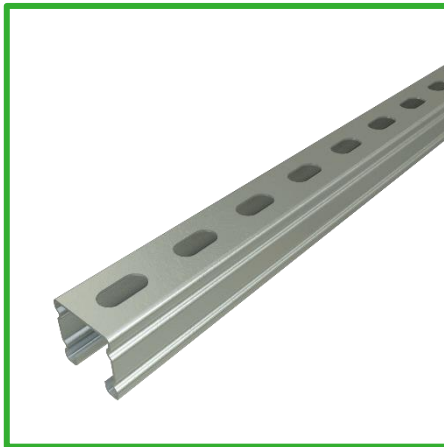
TrueGalv
(GB)



Galvabond
(GB)



Aluminum
(AL)



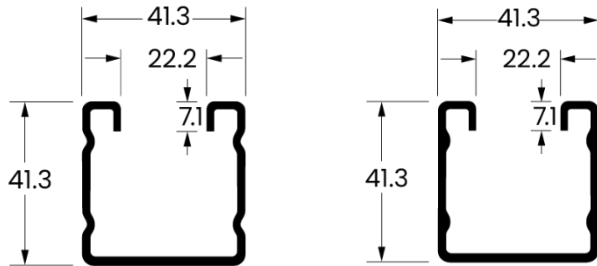
Hot Dip Galvanised
(HG)



Plain
(PL)

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Dimensions:



P2000T

P2000T-AL

Note: All dimensions shown are in millimeters.

Australia		New Zealand		Description	Material thickness	Weight
Cat No	Mat No	Cat No	Mat No			
P2000T-PL	4002099	NA		P2000T SLOTTED PLAIN 6M LENGTH	1.6MM	1.62kg/m
P2000T-GB	4000974	P2000T-G	2266404	P2000T SLOTTED GALVABOND 6M LENGTH	1.6MM	1.62kg/m
P2000T-TG	4039710	NA		P2000T TRUEGALV 6M LENGTH	1.6MM	1.62kg/m
P2000T-HG	4002098	P2000T-HG	2265697	P2000T SLOTTED HOT DIP GALVANISED 6M LENGTH	1.6MM	1.62kg/m
P2000T-AL	4015452	NA		P2000T ALUMINIUM 6M LENGTH	1.6MM	0.60g/m

Load Rating & Deflection:

Length (mm)	Max. Allowable Load (kg)	Deflection at Allowable Load (mm)
250	946	0.18
500	556	0.85
750	371	1.91
1000	279	3.39
1250	222	5.3
1500	186	7.63
1750	159	10.39
2000	141	16.12
2250	124	17.16
2500	111	21.2
2750	101	25.64
3000	93	30.52

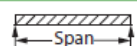
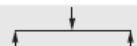

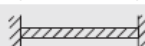

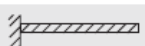

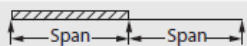
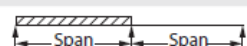
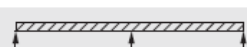

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Conversion factors

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:

