

# Technical Data Sheet

## P1000T

### Product Description:

Atkore Unistrut P1000T 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:

- Has a U-shaped design with inward-angled edges. This design allows for easy insertion of fittings and nuts.
- Comes in various sizes and dimensions to accommodate different loads and installation requirements.
- The ease of installation and adaptability can contribute to cost savings in both labor and material expenses.
- Always designed to be compatible with a range of fittings and accessories, allowing for flexibility in installation.



### 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

### Finishes:

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

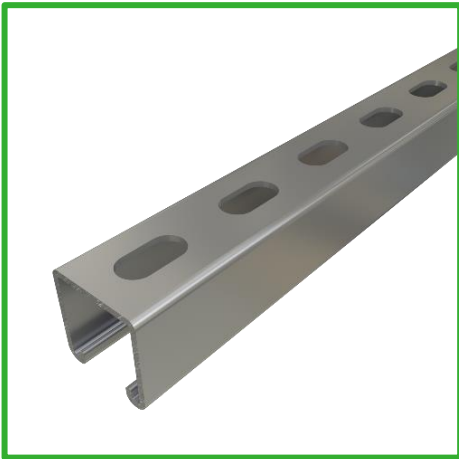
### Applications:

- 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:



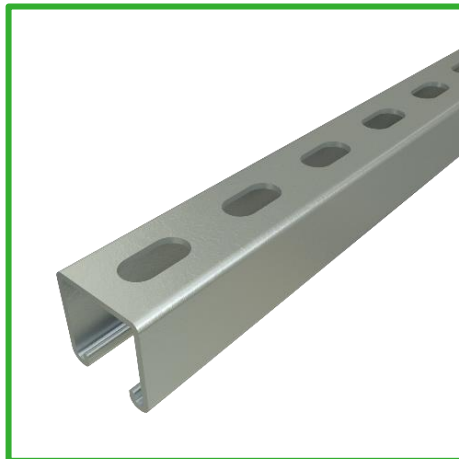
TrueGalv  
(TG)



Galvabond  
(GB)



Stainless Steel  
(SS)



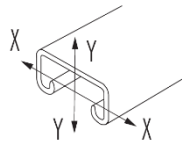
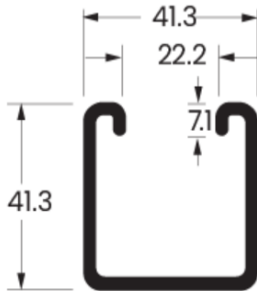
Hot Dip Galvanised  
(HG)



Plain  
(PL)

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### Dimensions:



$A = 295\text{mm}^2$   
 $\text{kg/m} = 2.32\text{kg/m}$   
 $I_{x-x} = 0.059 \cdot 10^6\text{mm}^4$   
 $Z_{x-x} = 2.698 \cdot 10^3\text{mm}^3$   
 $r_{x-x} = 14.1\text{mm}$   
 $I_{y-y} = 0.091 \cdot 10^6\text{mm}^4$   
 $Z_{y-y} = 4.423 \cdot 10^3\text{mm}^3$   
 $r_{y-y} = 17.6\text{mm}$

Note: All dimensions shown are in millimeters.

Australia		New Zealand		Description	Material thickness	Weight
Cat No	Mat No	Cat No	Mat No			
P1000T-PL	3000066	P1000T-P	2088733	P1000T SLOTTED PLAIN 6M LENGTH	2.5MM	2.32kg/m
P1000T-GB	4000845	P1000T-G	2138204	P1000T SLOTTED GALVABOND 6M LENGTH	2.5MM	2.32kg/m
P1000T-TG	4039709	NA		P1000T SLOTTED TRUEGALVE 6M LENGTH	2.5MM	2.32kg/m
P1000T-HG	4000846	P1000T-H	2080226	P1000T SLOTTED HOT DIP GALVANISED 6M LENGTH	2.5MM	2.32kg/m
P1000T-SS	4000848	NA		P1000T SLOTTED STAINLESS STEEL 316 6M LENGTH	2.5MM	2.49kg/m

### Load Rating & Deflection:

Length (mm)	Max. Allowable Load (kg)	Deflection at Allowable Load (mm)	Max. Allowable Column Load (kg)
250	1362	0.20	4176.76
500	682	0.78	3381.38
750	458	1.77	2590.08
1000	341	3.15	1968.05
1250	272	4.91	1507.14
1500	227	7.08	1211.42
1750	195	9.64	1009.52
2000	169	12.59	857.58
2250	151	15.93	738.27
2500	136	19.66	643.44
2750	123	23.80	563.9
3000	114	28.32	-

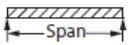
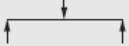

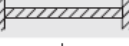

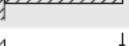

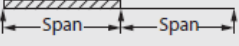

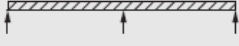

# Technical Data Sheet

## 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:

