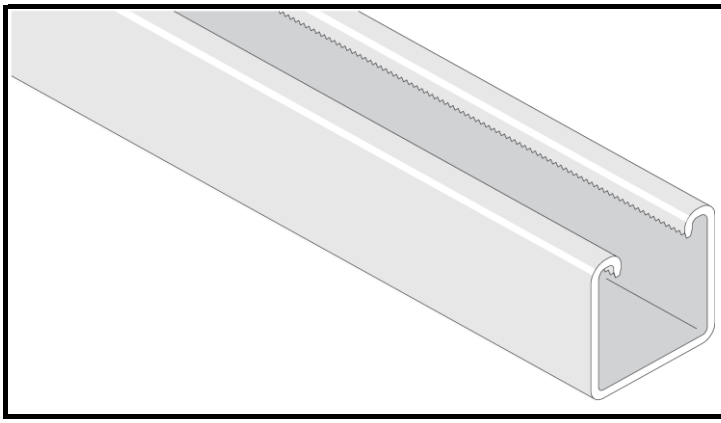
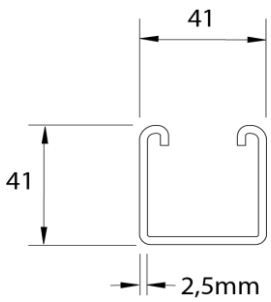
UNISTRUT®

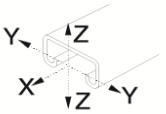
A PART OF atkore INTERNATIONAL

Product Data Sheet

P1000 Channel (Plain - Unslotted)







A	=	3.35 cm²
⍵/m	=	2.88 kg/m
I y-y	=	7.21 cm⁴
Z y-y	=	3.10 cm³
r y-y	=	1.46 cm
I z-z	=	9.23 cm⁴
Z z-z	=	4.47 cm³
r z-z	=	1.66 cm

L(mm)	F, σ=175 N/mm², f		f=1/200L	f=1/360L	$F_{(kN)}$
	Fmax(kN)	fmax(mm)	F (kN)	F (kN)	
250	17.354	0.23	-	-	16.608
500	8.672	0.95	-	-	16.187
750	5.778	2.15	-	5.602	15.245
1000	4.336	3.82	-	3.149	13.685
1250	3.463	5.97	-	2.011	12.086
1500	2.884	8.60	2.521	1.393	10.722
1750	2.472	11.70	1.844	1.020	9.575
2000	2.168	15.29	1.413	0.785	8.623
2250	1.923	19.35	1.118	0.618	7.819
2500	1.727	23.89	0.903	0.500	7.112
2750	1.570	28.91	0.746	0.412	6.504*
3000	1.442	34.40	0.628	0.343	5.995*

*k.L/r => 180 < 250

NB: Load data is for **Mild Steel** channels

Material:

P1000P:- Plain Coil to BS EN 10025 Pickled & Oiled min. yield 280 n/mm²
P1000PG:- Mild steel - BS EN 10346 1.0244
P1000H:- Plain Coil to BS EN 10025 Pickled & Oiled min. yield 280 n/mm²
P1000DH:- BS EN 10025 S275JO+AR+CL1 or equivalent/better.
P1000EDH:- BS EN 10025 Class 3 material - Pickled & Oiled min. yield 280 n/mm²
P1000SS:- See seperate Data Sheet

Finishes:

P1000P:- Self Colour
P1000PG:- BS EN 10326 coating Z275
P1000H:- Hot Dip Galvanized - to BS EN ISO 1461: to a mean coating thickness (minimum) of 55 µm.
P1000DH:- Hot Dip Galvanized - to BS EN ISO 1461: to a mean coating thickness (minimum) of 85 µm.
P1000EDH:- Hot Dip Galvanized - to BS EN ISO 1461: to a mean coating thickness (minimum) of 120 µm.
P1000SS:- See seperate Data Sheet