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01 : CHANNELS

Part No.



Part No.



Part No.



Part No.



Part No.


ACS ORIGINALSTRUT®; CHANNELS

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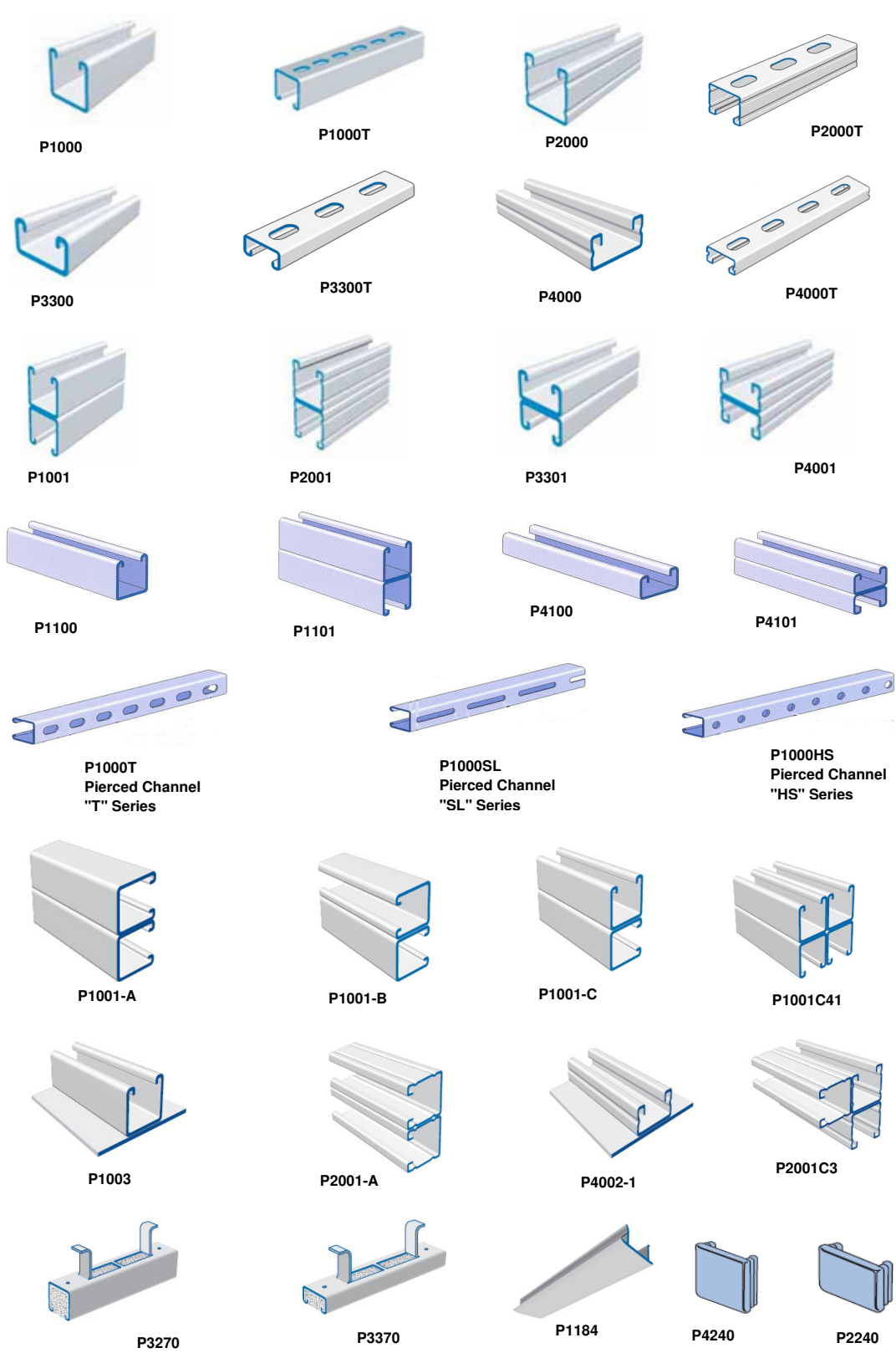
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Preview **PRODUCT** ACS ORIGINALSTRUT®; Channels



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GENERAL ENGINEERING DATA

ENGINEERING DATA - Beams & Columns

Notes to Table

Note 1 Loads are governed by shear or web crippling

Note 2 For uniform beam working loads asymmetric sections are required to be adequately braced to prevent rotation and twist

Beam Loads

The loads and deflections shown are based on simply supported beams uniformly loaded

ENGINEERING DATA - Structural Data

1 Section Properties

Section properties have been derived from 'as formed' shapes and are based on nominal dimensions and nominal base steel thickness, nominal masses are calculated from the tabulated areas based on a steel density of 7850 kg per cu.m, for dead load calculations the tabulated masses

should be increased by 10% to allow for rolling tolerances, and the result multiplied by 0.0098 to give corresponding dead load (self weight) in kN per m. run of section, also note the beam and column loads do not make allowance for self weight of the section. When designing a structure in which the section forms an integral part, the self weight should be determined using the method described above and subtracted from the tabulated load

2 Beam and Column Load Tables

Ultimate load values have been calculated from the section properties as permitted by AS/NZS 4600 Cold Formed Steel Structures code, the guaranteed minimum yield stress F_y has been taken as 210 Mpa for plain channels, and the increase allowed resulting from cold forming has been determined in accordance with the code, the listed working loads have been derived from the ultimate load divided by 1.5

2.1 Span or Column Length

Listed value is to be taken as the distance between centres of supports

2.2 Beam Load at Maximum Permissible Stresses

In order to establish the table of working loads that can be carried by the corresponding section, the ultimate limit state loads that could be permitted by the code were first determined, these were divided by 1.5 to provide 'conservative' working loads, the load is considered to be uniformly distributed along the span and orientated with respect to the section, as defined by the diagrams to cause bending about X-X axis only. The webs of the beams are assumed to be unstiffened and have been checked for end bearing in accordance with clause 3.3.6 of AS/NZS4600:1996. Where this is critical the working loads have been

appropriately reduced. This assessment has been based on a rigid support with the beam bearing on each support for a length equal to at least the straight length of web-depth of the basic section

2.3 Deflection

Deflections are calculated for the corresponding beam working load, using standard formulae, deflections or uniformly distributed loads for conditions other than those tabulated may be calculated from the following:-

$$\delta_2 = \frac{W_2}{W_1} \left(\frac{L_2}{L_1} \right)^3 \delta_1$$

Where	W_1	tabulated load in kN
	δ_1	corresponding tabulated deflection in mm
	L_1	corresponding tabulated length in mm
	W_2	new load
	L_2	new length
	δ_2	deflection corresponding to new length and new load

It is recommended that beam deflections generally be limited to the smaller of span/180 or 10mm and loads restricted accordingly, these limitations are based on 'visual straightness' with the latter value subject to variation to suit particular visual or other physical requirements

2.4 Maximum Column Load

Listed values of column load capacity are derived on the basis of a concentric axial load applied to the section, acting as a column with an effective length corresponding to the listed value, i.e. translational and torsional restraint available at the centres of supports, for other conditions of loading and/or restraint, reference should be made to the appropriate sections of AS/NZS 4600 Cold Formed steel Structures

3 Recommended Bearing & connection Loads

listed values are based on extensive testing of components by ACS ORIGINALSTRUT®; using a safety factor of 2.5 against failure of the connection

4 Point loads

For point loads at midspan, the allowable loads are half the values shown in the tables, the deflection for the point load

$$\text{is obtained from } \delta_2 = 0.80 \delta_1$$

where δ_1 is the deflection for a uniform load which is double the value of the point load

Engineering Data - Abbreviations

A = Area of Section
I = Moment of Inertia
Z = Section of Modulus
r = Radius of Gyration

Finishes

HDG Hot Dipped Galvanised
SS304 Stainless Steel 304
SS316 Stainless Steel 316
EZP Zinc Plated
PL Plain
PVC Plastic
Other finishes available on request

Measurement

m metre
mm Millimetre
g gram
kg Kilogram

ACS ORIGINALSTRUT®; CHANNEL P1000 & P1000T

P1000

$A = 330\text{mm}^2$
 $\text{kg/m} = 2.59\text{kg/m}$
 $I_{x-x} = 0.069 \cdot 10^6\text{mm}^4$
 $Z_{x-x} = 2.920 \cdot 10^3\text{mm}^3$
 $r_{x-x} = 14.5\text{mm}$
 $I_{y-y} = 0.092 \cdot 10^6\text{mm}^4$
 $Z_{y-y} = 4.451 \cdot 10^3\text{mm}^3$
 $r_{y-y} = 16.7\text{mm}$

Mass 2.59kg/m

L (mm)	F _{max} (kN)	f _{max} (mm)	F _(2/3)
250	14.83	0.22	45.51
500	7.42	0.87	36.84
750	4.94	1.97	28.22
1000	3.71	3.5	21.44
1250	2.97	5.46	16.42
1500	2.47	7.87	13.2
1750	2.12 (2)	10.71	11
2000	1.85 (2)	13.99	9.35
2250	1.65 (2)	17.7	8.05
2500	1.48 (2)	21.85	7.01
2750	1.35 (2)	26.44	6.14
3000	1.24 (2)	31.47	-

Part No.	Base Material Thick (mm)	Length (m)	Dim "W" x "D" (mm)
P1000-PL	2.5	6	41 x 41
P1000-PL	2.5	3	41 x 41
P1000-HDG	2.5	6	41 x 41
P1000-HDG	2.5	3	41 x 41
P1000-SS304	2.5	6	41 x 41
P1000-SS304	2.5	3	41 x 41
P1000-SS316	2.5	6	41 x 41
P1000-SS316	2.5	3	41 x 41

P1000T

Slots 14 wide x 30 long at 50mm centres (approx.)

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

Mass 2.32kg/m

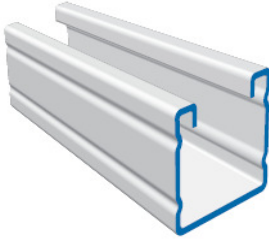
L (mm)	F _{max} (kN)	f _{max} (mm)	F _(2/3)
250	13.35	0.20	40.96
500	6.68	0.78	33.16
750	4.45	1.77	25.40
1000	3.34	3.15	19.30
1250	2.67	4.91	14.78
1500	2.22	7.08	11.88
1750	1.91 (2)	9.64	9.90
2000	1.66 (2)	12.59	8.41
2250	1.48 (2)	15.93	7.24
2500	1.33 (2)	19.66	6.31
2750	1.21 (2)	23.80	5.53
3000	1.12 (2)	28.32	-

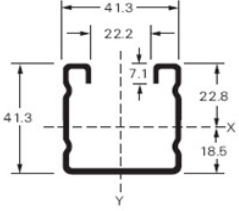
Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P1000T-PL	41 x 41	2.5	6
P1000T-PL	41 x 41	2.5	3
P1000T-HDG	41 x 41	2.5	6
P1000T-HDG	41 x 41	2.5	3
P1000T-SS304	41 x 41	2.5	6
P1000T-SS304	41 x 41	2.5	3
P1000T-SS316	41 x 41	2.5	6
P1000T-SS316	41 x 41	2.5	3


Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316

ACS ORIGINALSTRUT®; CHANNEL P2000 & P2000T

P2000







$A = 228\text{mm}^2$
 $\text{kg/m} = 1.79\text{kg/m}$
 $I_{x-x} = 0.052 \cdot 10^6\text{mm}^4$
 $Z_{x-x} = 2.297 \cdot 10^3\text{mm}^3$
 $r_{x-x} = 15.2\text{mm}$
 $I_{y-y} = 0.065 \cdot 10^6\text{mm}^4$
 $Z_{y-y} = 3.143 \cdot 10^3\text{mm}^3$
 $r_{y-y} = 16.9\text{mm}$

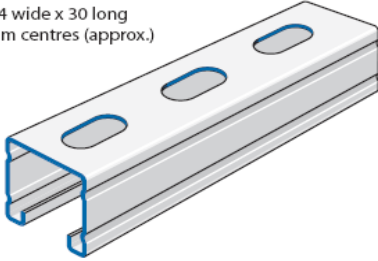
Mass 1.79kg/m

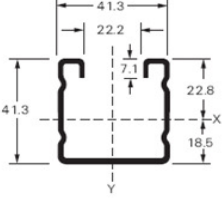
L (mm)	F _{max} (kN)	f _{max} (mm)	F _{0(N)}
250	10.30	0.20	32.92
500	6.06	0.94	26.55
750	4.04	2.12	19.21
1000	3.03	3.77	12.91
1250	2.42	5.89	9.03
1500	2.02	8.48	6.89
1750	1.73 (2)	11.54	5.56
2000	1.27 (2)	8.41	5.46
2250	1.35 (2)	19.07	4.02
2500	1.21 (2)	23.55	3.53
2750	1.10 (2)	28.49	3.14
3000	1.01 (2)	33.91	2.82


Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P2000-PL	41 x 41	1.6	6
P2000-PL	41 x 41	1.6	3
P2000-HDG	41 x 41	1.6	6
P2000-HDG	41 x 41	1.6	3
P2000-SS304	41 x 41	1.5	6
P2000-SS304	41 x 41	1.5	3
P2000-SS316	41 x 41	1.5	6
P2000-SS316	41 x 41	1.5	3

P2000T

Slots 14 wide x 30 long at 50mm centres (approx.)







$A = 206\text{mm}^2$
 $\text{kg/m} = 1.62\text{kg/m}$
 $I_{x-x} = 0.045 \cdot 10^6\text{mm}^4$
 $Z_{x-x} = 2.136 \cdot 10^3\text{mm}^3$
 $r_{x-x} = 14.7\text{mm}$
 $I_{y-y} = 0.065 \cdot 10^6\text{mm}^4$
 $Z_{y-y} = 3.125 \cdot 10^3\text{mm}^3$
 $r_{y-y} = 17.7\text{mm}$

Mass 1.62kg/m

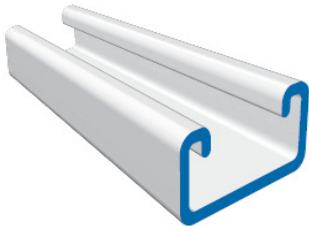
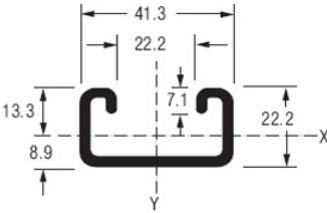

L (mm)	F _{max} (kN)	f _{max} (mm)	F _{0(N)}
250	9.27	0.18	29.63
500	5.45	0.85	23.90
750	3.64	1.91	17.29
1000	2.73	3.39	11.62
1250	2.18	5.30	8.13
1500	1.82	7.63	6.20
1750	1.56 (2)	10.39	5.00
2000	1.14 (2)	7.57	4.91
2250	1.22 (2)	17.16	3.62
2500	1.09 (2)	21.20	3.18
2750	0.99 (2)	25.64	2.83
3000	0.91 (2)	30.52	2.54

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P2000T-PL	41 x 41	1.6	6
P2000T-PL	41 x 41	1.6	3
P2000T-HDG	41 x 41	1.6	6
P2000T-HDG	41 x 41	1.6	3
P2000T-SS304	41 x 41	1.5	6
P2000T-SS304	41 x 41	1.5	3
P2000T-SS316	41 x 41	1.5	6
P2000T-SS316	41 x 41	1.5	3

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316
 GB Galvabond available 1.5mm thick, min qty order

ACS ORIGINALSTRUT®; CHANNEL P3300 & P3300T

P3300

Mass 1.82kg/m

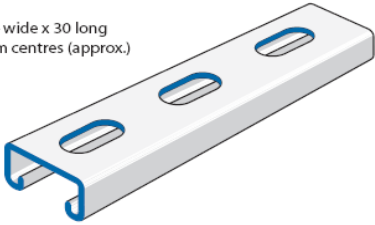
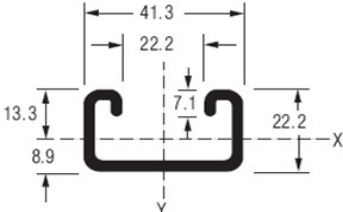

$A = 232\text{mm}^2$
 $\text{kg/m} = 1.82\text{kg/m}$
 $I_{x-x} = 0.013 \cdot 10^6 \text{mm}^4$
 $Z_{x-x} = 0.999 \cdot 10^3 \text{mm}^3$
 $r_{x-x} = 7.6\text{mm}$
 $I_{y-y} = 0.055 \cdot 10^6 \text{mm}^4$
 $Z_{y-y} = 2.661 \cdot 10^3 \text{mm}^3$
 $r_{y-y} = 15.4\text{mm}$

L (mm)	F _{max} (kN)	f _{max} (mm)	F _(kN)
250	5.52	0.42	34.88
500	2.76	1.68	27.76
750	1.84	3.79	19.42
1000	1.38	6.74	12.08
1250	1.10	10.53	7.90
1500	0.92	15.16	5.56
1750	0.79 (2)	20.63	-
2000	0.69 (2)	26.95	-
2250	0.61 (2)	34.11	-
2500	0.55 (2)	42.11	-
2750	0.50 (2)	50.95	-
3000	0.46 (2)	60.63	-

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P3300-PL	41 x 22	2.5	6
P3300-PL	41 x 22	2.5	3
P3300-HDG	41 x 22	2.5	6
P3300-HDG	41 x 22	2.5	3
P3300-SS304	41 x 22	2.5	6
P3300-SS304	41 x 22	2.5	3
P3300-SS316	41 x 22	2.5	6
P3300-SS316	41 x 22	2.5	3

P3300T

Slots 14 wide x 30 long at 50mm centres (approx.)

Mass 1.55kg/m

$A = 197\text{mm}^2$
 $\text{kg/m} = 1.55\text{kg/m}$
 $I_{x-x} = 0.011 \cdot 10^6 \text{mm}^4$
 $Z_{x-x} = 0.912 \cdot 10^3 \text{mm}^3$
 $r_{x-x} = 7.5\text{mm}$
 $I_{y-y} = 0.054 \cdot 10^6 \text{mm}^4$
 $Z_{y-y} = 2.634 \cdot 10^3 \text{mm}^3$
 $r_{y-y} = 16.6\text{mm}$

L (mm)	F _{max} (kN)	f _{max} (mm)	F _(kN)
250	4.97	0.38	31.39
500	2.48	1.51	24.98
750	1.66	3.41	17.48
1000	1.24	6.07	10.87
1250	0.99	9.48	7.11
1500	0.83	13.64	5.00
1750	0.71 (2)	18.57	-
2000	0.62 (2)	24.26	-
2250	0.55 (2)	30.70	-
2500	0.50 (2)	37.90	-
2750	0.45 (2)	45.86	-
3000	0.41 (2)	54.57	-

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P3300T-PL	41 x 22	2.5	6
P3300T-PL	41 x 22	2.5	3
P3300T-HDG	41 x 22	2.5	6
P3300T-HDG	41 x 22	2.5	3
P3300T-SS304	41 x 22	2.5	6
P3300T-SS304	41 x 22	2.5	3
P3300T-SS316	41 x 22	2.5	6
P3300T-SS316	41 x 22	2.5	3

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316

ACS ORIGINALSTRUT®; CHANNEL P4000 & P4000T

P4000

Mass 1.26kg/m

$A = 160\text{mm}^2$
 $\text{kg/m} = 1.26\text{kg/m}$
 $I_x-x = 0.010 \cdot 10^6\text{mm}^4$
 $Z_x-x = 0.786 \cdot 10^3\text{mm}^3$
 $r_x-x = 7.6\text{mm}$
 $I_y-y = 0.039 \cdot 10^6\text{mm}^4$
 $Z_y-y = 1.880 \cdot 10^3\text{mm}^3$
 $r_y-y = 15.6\text{mm}$

L (mm)	F _{max} (kN)	f _{max} (mm)	F _(kN)
250	4.20	0.44	22.36
500	2.1	1.77	16.30
750	1.4	3.98	10.46
1000	1.05	7.08	6.54
1250	0.84	11.07	4.54
1500	0.70 (2)	15.94	3.35
1750	0.60 (2)	21.69	-
2000	0.52 (2)	28.33	-
2250	0.47 (2)	35.86	-
2500	0.42 (2)	44.27	-
2750	0.38 (2)	53.57	-
3000	0.35 (2)	63.57	-

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P4000-PL	41 x 21	1.6	6
P4000-PL	41 x 21	1.6	3
P4000-HDG	41 x 21	1.6	6
P4000-HDG	41 x 21	1.6	3
P4000-SS304	41 x 21	1.5	6
P4000-SS304	41 x 21	1.5	3
P4000-SS316	41 x 21	1.5	6
P4000-SS316	41 x 21	1.5	3

P4000T

Slots 14 wide x 30 long at 50mm centres (approx.)

Mass 1.08kg/m

$A = 138\text{mm}^2$
 $\text{kg/m} = 1.08\text{kg/m}$
 $I_x-x = 0.008 \cdot 10^6\text{mm}^4$
 $Z_x-x = 0.729 \cdot 10^3\text{mm}^3$
 $r_x-x = 7.6\text{mm}$
 $I_y-y = 0.038 \cdot 10^6\text{mm}^4$
 $Z_y-y = 1.862 \cdot 10^3\text{mm}^3$
 $r_y-y = 16.7\text{mm}$

L (mm)	F _{max} (kN)	f _{max} (mm)	F _(kN)
250	3.78	0.40	20.12
500	1.89	1.59	14.67
750	1.26	3.58	9.41
1000	0.95	6.37	5.89
1250	0.76	9.96	4.09
1500	0.63 (2)	14.53	3.02
1750	0.54 (2)	19.52	-
2000	0.47 (2)	25.50	-
2250	0.42 (2)	32.27	-
2500	0.38 (2)	39.84	-
2750	0.34 (2)	48.21	-
3000	0.32 (2)	57.21	-

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P4000T-PL	41 x 21	1.6	6
P4000T-PL	41 x 21	1.6	3
P4000T-HDG	41 x 21	1.6	6
P4000T-HDG	41 x 21	1.6	3
P4000T-SS304	41 x 21	1.5	6
P4000T-SS304	41 x 21	1.5	3
P4000T-SS316	41 x 21	1.5	6
P4000T-SS316	41 x 21	1.5	3

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316
 GB Galvabond available 1.5mm thick, min qty order

ACS ORIGINALSTRUT®; CHANNEL P1001 & P2001

P1001

Mass 5.18kg/m

$A = 660\text{mm}^2$
 $\text{kg/m} = 5.18\text{kg/m}$
 $I_{x-x} = 0.318 \cdot 10^6\text{mm}^4$
 $Z_{x-x} = 7.711 \cdot 10^3\text{mm}^3$
 $r_{x-x} = 22.0\text{mm}$
 $I_{y-y} = 0.184 \cdot 10^6\text{mm}^4$
 $Z_{y-y} = 8.902 \cdot 10^3\text{mm}^3$
 $r_{y-y} = 16.7\text{mm}$

L (mm)	Fmax (kN)	fmax (mm)	F (kN)
250	25.64 (1)	0.08	97.71
500	19.58	0.50	94.09
750	13.06	1.13	88.35
1000	9.79	2.00	80.90
1250	7.83	3.13	72.23
1500	6.53	4.50	62.89
1750	5.60 (2)	6.13	53.40
2000	4.90 (2)	8.01	44.21
2250	4.35 (2)	10.13	35.62
2500	3.92 (2)	12.51	28.85
2750	3.56 (2)	15.14	23.85
3000	3.26 (2)	18.02	20.04

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P1001-PL	41 x 82	2.5	6
P1001-PL	41 x 82	2.5	3
P1001-HDG	41 x 82	2.5	6
P1001-HDG	41 x 82	2.5	3
P1001-SS304	41 x 82	2.5	6
P1001-SS304	41 x 82	2.5	3
P1001-SS316	41 x 82	2.5	6
P1001-SS316	41 x 82	2.5	3

P2001

Mass 3.63kg/m

$A = 462\text{mm}^2$
 $\text{kg/m} = 3.63\text{kg/m}$
 $I_{x-x} = 0.261 \cdot 10^6\text{mm}^4$
 $Z_{x-x} = 6.321 \cdot 10^3\text{mm}^3$
 $r_{x-x} = 23.8\text{mm}$
 $I_{y-y} = 0.131 \cdot 10^6\text{mm}^4$
 $Z_{y-y} = 6.367 \cdot 10^3\text{mm}^3$
 $r_{y-y} = 16.9\text{mm}$

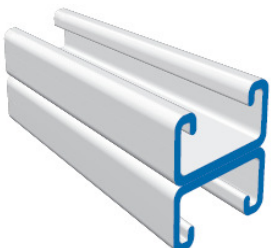
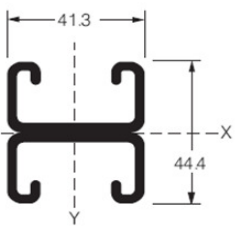

L (mm)	Fmax (kN)	fmax (mm)	F (kN)
250	11.78 (1)	0.05	70.84
500	11.78	0.37	68.18
750	11.09	1.17	63.96
1000	8.32	2.07	58.50
1250	6.65	3.24	52.15
1500	5.54	3.67	45.32
1750	4.75 (2)	6.35	38.39
2000	3.48 (2)	4.63	37.77
2250	3.70 (2)	10.50	25.48
2500	3.33 (2)	12.96	20.64
2750	3.02 (2)	15.68	17.06
3000	2.77 (2)	18.66	14.33

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P2001T-PL	41 x 82	1.6	6
P2001T-PL	41 x 82	1.6	3
P2001T-HDG	41 x 82	1.6	6
P2001T-HDG	41 x 82	1.6	3
P2001T-SS304	41 x 82	1.5	6
P2001T-SS304	41 x 82	1.5	3
P2001T-SS316	41 x 82	1.5	6
P2001T-SS316	41 x 82	1.5	3

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316
 GB Galvabond available 1.5mm thick, min qty order

ACS ORIGINALSTRUT®; CHANNEL P3301 & P4001

P3301

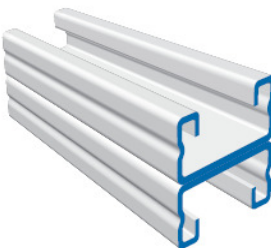
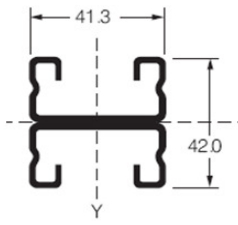
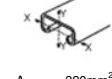
Mass 3.65kg/m

$A = 465\text{mm}^2$
 $\text{kg/m} = 3.65\text{kg/m}$
 $I_{x-x} = 0.063 \cdot 10^6\text{mm}^4$
 $Z_{x-x} = 2.841 \cdot 10^3\text{mm}^3$
 $r_{x-x} = 11.6\text{mm}$
 $I_{y-y} = 0.110 \cdot 10^6\text{mm}^4$
 $Z_{y-y} = 5.329 \cdot 10^3\text{mm}^3$
 $r_{y-y} = 15.4\text{mm}$

L (mm)	F _{max} (kN)	f _{max} (mm)	F _{0(kN)}
250	15.58	0.25	73.2
500	7.79	1.01	67.32
750	5.19	2.26	58.55
1000	3.9	1.02	48.16
1250	3.12	6.28	37.47
1500	6.6	9.05	27.50
1750	2.23 (2)	12.32	20.21
2000	1.95 (2)	16.09	15.47
2250	1.73 (2)	20.36	12.22
2500	1.56 (2)	25.13	-
2750	1.42 (2)	30.41	-
3000	1.30 (2)	36.19	-

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P3301-PL	41 x 44	2.5	6
P3301-PL	41 x 44	2.5	3
P3301-HDG	41 x 44	2.5	6
P3301-HDG	41 x 44	2.5	3
P3301-SS304	41 x 44	2.5	6
P3301-SS304	41 x 44	2.5	3
P3301-SS316	41 x 44	2.5	6
P3301-SS316	41 x 44	2.5	3

P4001

Mass 2.51kg/m

$A = 320\text{mm}^2$
 $\text{kg/m} = 2.51\text{kg/m}$
 $I_{x-x} = 0.044 \cdot 10^6\text{mm}^4$
 $Z_{x-x} = 2.082 \cdot 10^3\text{mm}^3$
 $r_{x-x} = 11.7\text{mm}$
 $I_{y-y} = 0.078 \cdot 10^6\text{mm}^4$
 $Z_{y-y} = 3.764 \cdot 10^3\text{mm}^3$
 $r_{y-y} = 15.6\text{mm}$

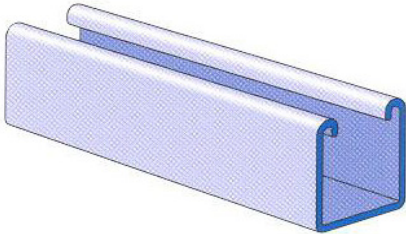
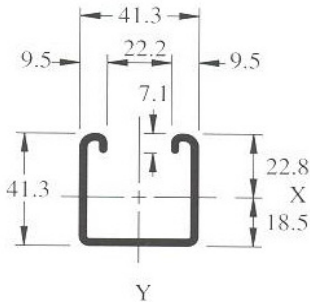
L (mm)	F _{max} (kN)	f _{max} (mm)	F _{0(kN)}
250	10.39	0.24	49.05
500	5.55	1.03	45.24
750	3.7	2.33	39.54
1000	2.78	4.14	32.74
1250	2.22	6.46	25.69
1500	1.85 (2)	9.31	19.06
1750	1.59 (2)	12.67	14.00
2000	1.39 (2)	16.54	10.72
2250	1.23 (2)	20.94	8.47
2500	1.11 (2)	25.85	-
2750	1.01 (2)	31.28	-
3000	0.93 (2)	37.22	-

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P4000T-PL	41 x 42	1.6	6
P4000T-PL	41 x 42	1.6	3
P4000T-HDG	41 x 42	1.6	6
P4000T-HDG	41 x 42	1.6	3
P4000T-SS304	41 x 42	1.5	6
P4000T-SS304	41 x 42	1.5	3
P4000T-SS316	41 x 42	1.5	6
P4000T-SS316	41 x 42	1.5	3

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316
 GB Galvabond available 1.5mm thick, min qty order

ACS ORIGINALSTRUT®; CHANNEL P1100 & P1101

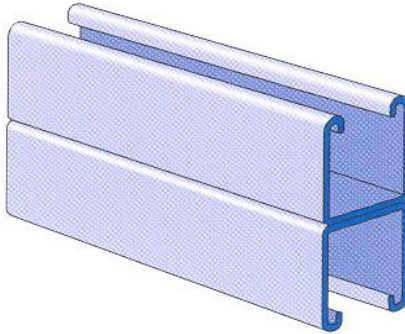
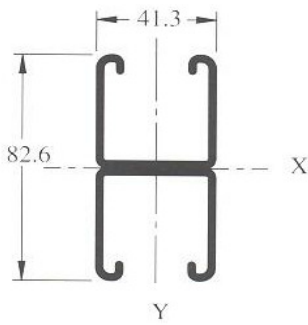
P1100

Mass 1.73 kg/m

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P1100-PL	41 x 41	2.0	6
P1100-PL	41 x 41	2.0	3
P1100-HDG	41 x 41	2.0	6
P1100-HDG	41 x 41	2.0	3
P1100-SS304	41 x 41	2.0	6
P1100-SS304	41 x 41	2.0	3
P1100-SS316	41 x 41	2.0	6
P1100-SS316	41 x 41	2.0	3

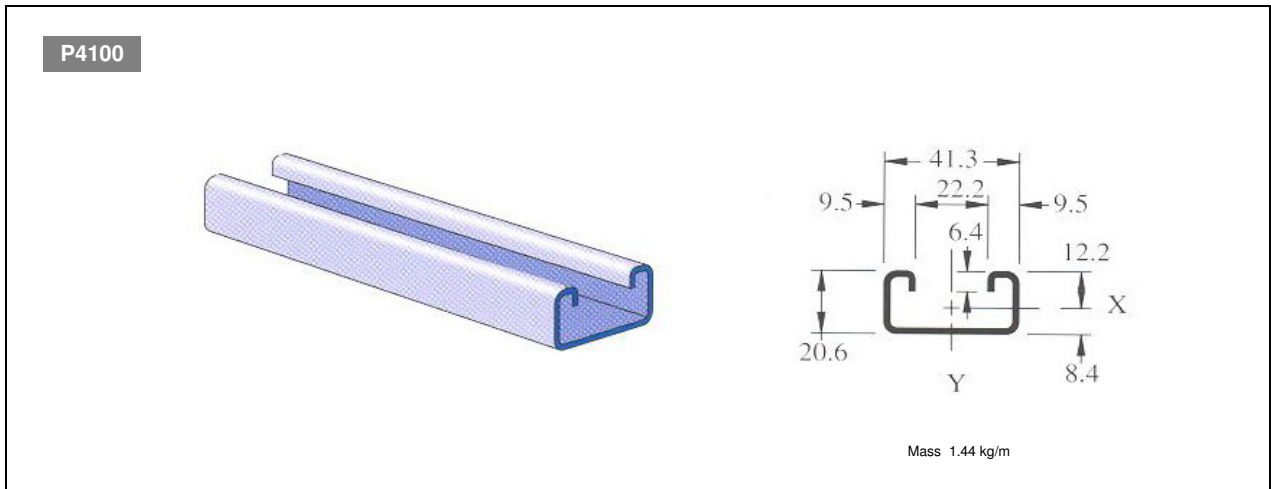
P1101

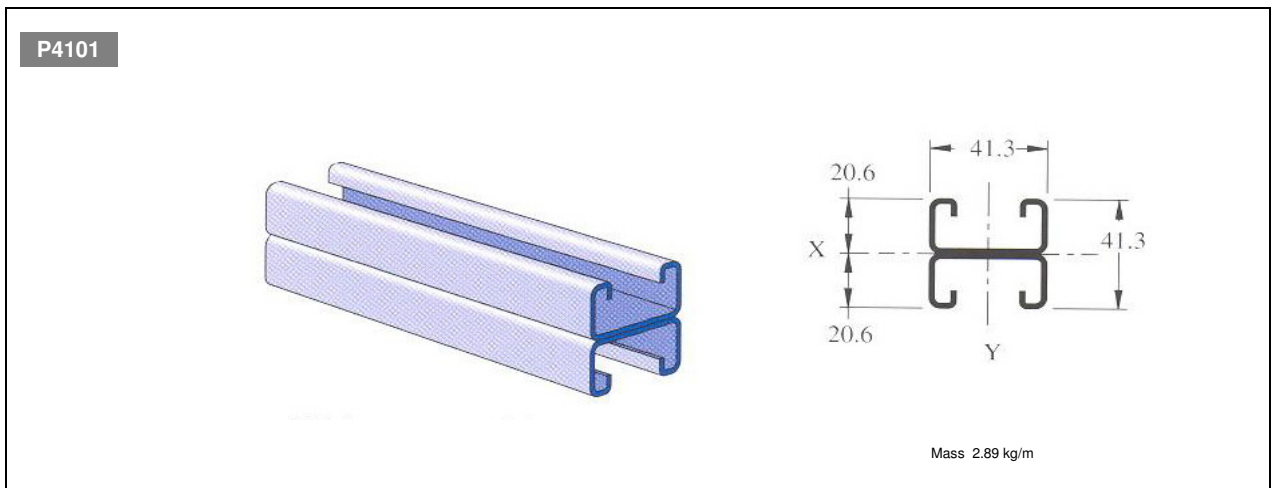
Mass 3.45 kg/m

Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P1101-PL	41 x 82	2.0	6
P1101-PL	41 x 82	2.0	3
P1101-HDG	41 x 82	2.0	6
P1101-HDG	41 x 82	2.0	3
P1101-SS304	41 x 82	2.0	6
P1101-SS304	41 x 82	2.0	3
P1101-SS316	41 x 82	2.0	6
P1101-SS316	41 x 82	2.0	3

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316



Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P4100-PL	41 x 21	2.0	6
P4100-PL	41 x 21	2.0	3
P4100-HDG	41 x 21	2.0	6
P4100-HDG	41 x 21	2.0	3
P4100-SS304	41 x 21	2.0	6
P4100-SS304	41 x 21	2.0	3
P4100-SS316	41 x 21	2.0	6
P4100-SS316	41 x 21	2.0	3



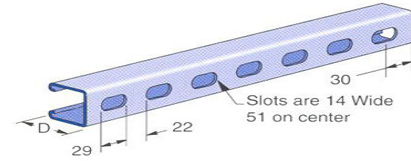
Part No.	Dim "W" x "D" (mm)	Base Material Thick (mm)	Length (m)
P4101-PL	41 x 41	2.0	6
P4101-PL	41 x 41	2.0	3
P4101-HDG	41 x 41	2.0	6
P4101-HDG	41 x 41	2.0	3
P4101-SS304	41 x 41	2.0	6
P4101-SS304	41 x 41	2.0	3
P4101-SS316	41 x 41	2.0	6
P4101-SS316	41 x 41	2.0	3

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316

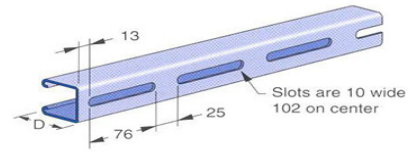
Pierced Channel

Part No.	Dim "W" (mm)	Depth "D" (mm)	Base Material Thick (mm)	Mass (kg/m)	Length (m)
P1000T	41	41	2.5	2.36	6
P1000SL	41	41	2.5	2.36	6
P1000HS	41	41	2.5	2.36	6
P1100T	41	41	2.0	1.13	6
P1100SL	41	41	2.0	1.13	6
P1100HS	41	41	2.0	1.13	6
P3300T	41	22	2.5	1.61	6
P3300SL	41	22	2.5	1.61	6
P3300HS	41	22	2.5	1.61	6
P4100T	41	21	2.0	1.29	6
P4100SL	41	21	2.0	1.29	6
P4100HS	41	21	2.0	1.29	6

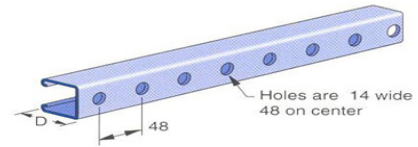
"T" SERIES



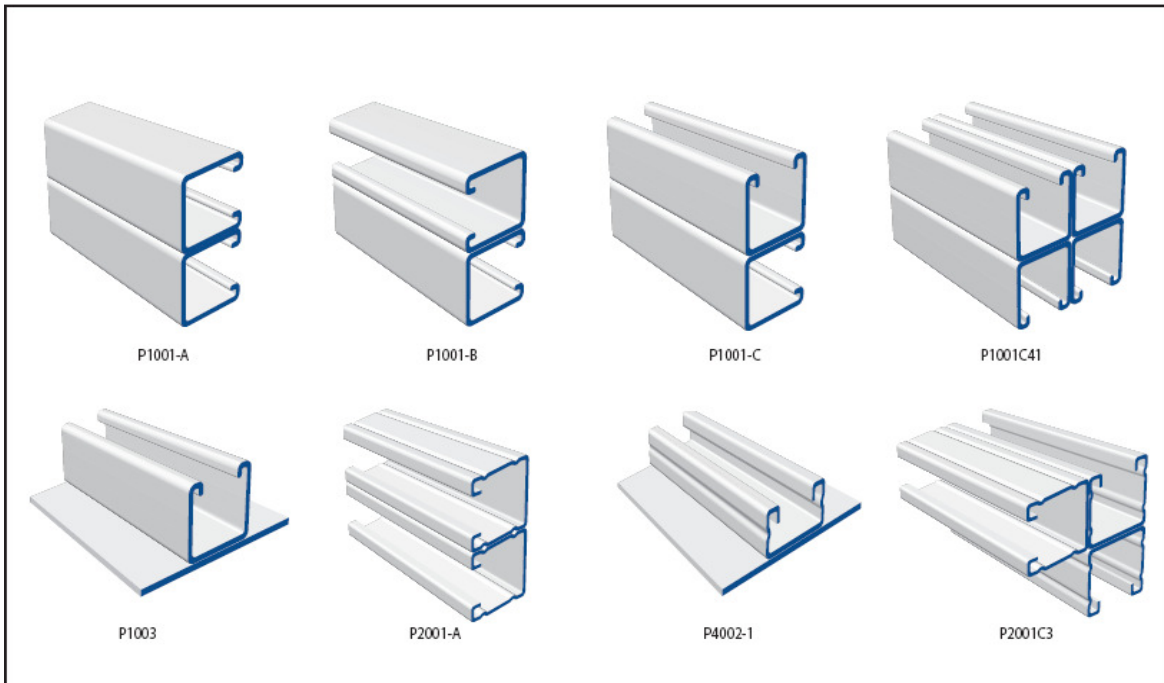
"SL" SERIES



"HS" SERIES



Optional Combinations



Part No.	Base Material Thick (mm)	Length (m)
P1001-A	2.5	6
P1001-B	2.5	6
P1001-C	2.5	6
P1001C41	2.5	6
P1003	2.5	6
P2001-A	2.5	6
P4002-1	2.5	6
P2001C3	2.5	6

Length 6m or 3m
 *Cut to your required length min qty order contact us
 Finish PL Plain
 HDG Hot Dipped Galvanised
 SS304 Stainless Steel Grade 304
 SS316 Stainless Steel Grade 316

ACS ORIGINALSTRUT®; CONCRETE INSERTS

P3270

Length 6m
Finish Hot Dipped Galvanised
Loading Data The support capacity of any concrete insert depends largely on the strength of the concrete used, therefore we can not guarantee any particular load
Recommended Pullout loading*
 Inserts 300mm and over 8.83kN per 300mm
Factor of Safety Approximately 3
 Mass 2.80kg/m

Note Exercise care during installation - Do not bend lugs

P3370

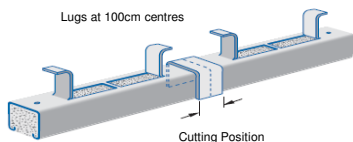
Length 6m
Finish Hot Dipped Galvanised
Loading Data The support capacity of any concrete insert depends largely on the strength of the concrete used, therefore we can not guarantee any particular load
Recommended Pullout loading*
 Inserts 300mm and over 8.83kN per 300mm.
Factor of Safety Approximately 3
 Mass 1.94kg/m

Note Exercise care during installation - Do not bend lugs

P3270

41mm x 41mm x 2.5mm thickness
 P3270 inserts are designed to accommodate 6mm, 8mm, 10mm, and 12mm Ø fixings. Normal cutting positions are between lugs as indicated
 Non standard lengths can be supplied in increments of 200mm

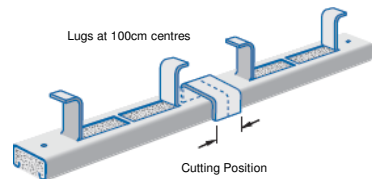
When ordering nuts to fit P3270 inserts they are
 12mm - P1013/M12
 10mm - P1008/M10
 8mm - P1007/M8
 6mm - P1006/M6



P3370

41mm x 21mm x 2.5mm thickness
 P3300CI inserts are designed to accommodate 6mm, 8mm, 10mm, and 12mm Ø fixings. Normal cutting positions are between lugs as indicated
 Non standard lengths can be supplied in increments of 200mm

When ordering nuts to fit P3370 inserts they are
 12mm - P1013/M12
 10mm - P1008/M10
 8mm - P1007/M8
 6mm - P1006/M6



Part No.	Base Material Thick (mm)	Length (m)	Mass (kg/Length)
P3270	2.5	6	16.80
P3370	2.5	6	11.64

ACS ORIGINALSTRUT®; CONCRETE INSERTS DATA

Concrete Inserts are manufactured from standard channel sections, they may be installed in floors, walls or concealed for the support of all kinds of piping, conduit, cable and other industrial equipment. Nuts can be inserted anywhere along the insert providing a means of attaching fittings or hanger rods

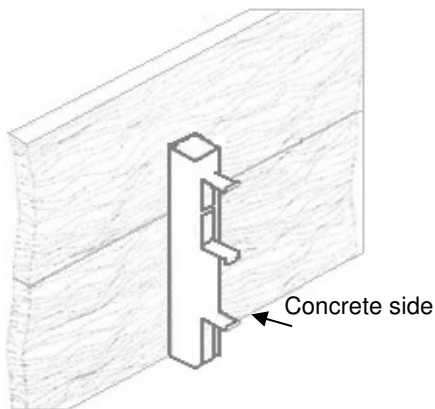
Fixing Methods

Note The lug protruding from the back of the insert are designed to provide positive anchorage in the concrete. Distortion of the lugs is not recommended as it will severely reduce the performance of the insert.

Steel Forms Concrete Inserts are either track welded or wired to reinforcement

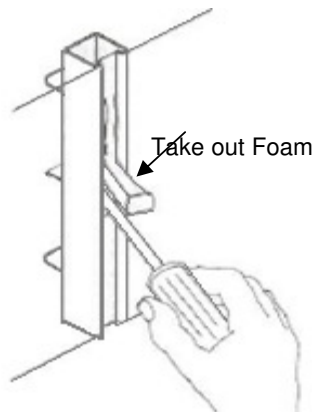
Filler Methods

Concrete Inserts are supplied foam filled to prevent ingress of grout and cement



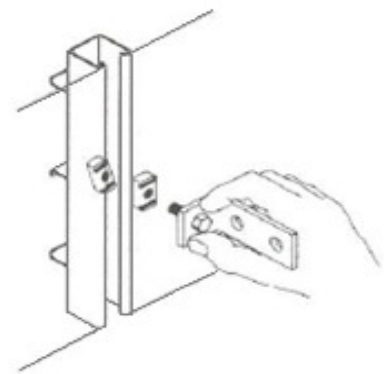
Easy placing

The Concrete Insert is firmly fixed to the concrete side of shuttering before pouring



Immediate use

When the shuttering is struck, the insert is ready to use



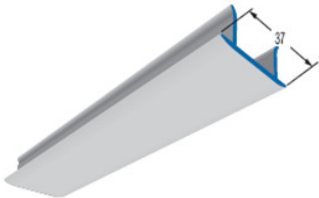
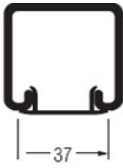
Fixing at any point

Brackets and other components can be attached at any point along the continuous entry channel

ACS ORIGINALSTRUT®; CHANNEL ACCESSORIES

P1184 - Plastic Closure Strip

Colour Grey, other colours available in commercial quantities on request
UV Stabilised


Length 3m
Mass 0.11kg/m

Finish PVC Plastic

Channel End Caps - Plastic UV Stabilised

P2240

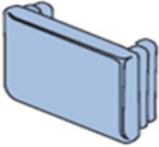
For P1000 & P2000 Channels



Mass 0.70kg/100

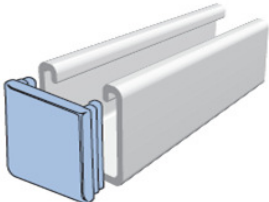
P4240

For P3300 & P4000 Channels



Mass 0.40kg/100

Typical Application



Part No.	For Channel	Mass kg/100
P1184	P1000 & P3300	0.11
P2240	P1000 & P2000	0.70
P4240	P3300 & P4000	0.40

Finish PVC Plastic
Caps provide a protective covering on protruding channels to guard against personal injury or damage to clothing
They slip easily over the ends of channel