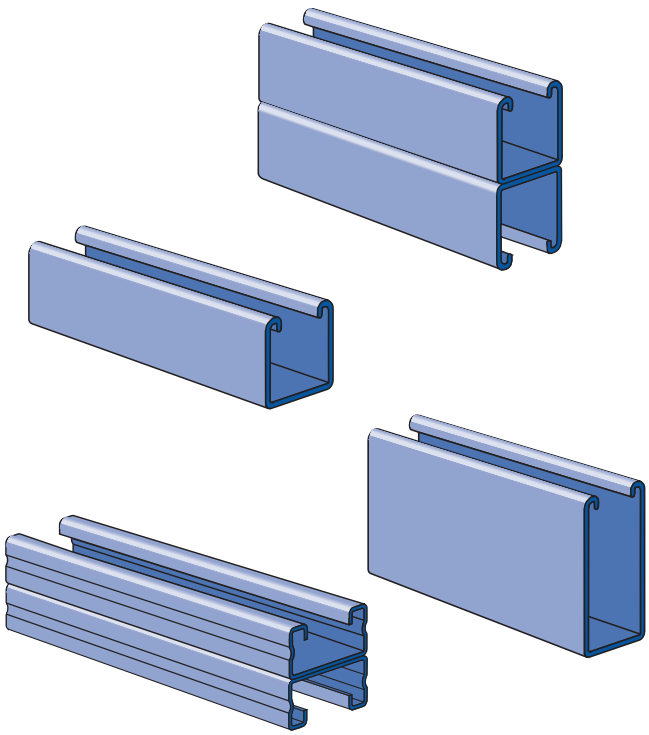
1⅝" CHANNEL



Channel Selection Chart 23

P1000 (12 Gauge) ..... 24 - 29

P1100 (14 Gauge) ..... 30 - 32

P2000 (16 Gauge) ..... 33 - 35

P3000 (12 Gauge) ..... 36 - 38

P3300 (12 Gauge) ..... 39 - 41

P4000 (16 Gauge) ..... 42 - 44

P4100 (14 Gauge) ..... 45 - 47

P4400 (12 Gauge) ..... 48 - 50

P4520 (12 Gauge) ..... 51 - 53

P5000 (12 Gauge) ..... 54 - 56

P5500 (12 Gauge) ..... 57 - 59

Closure Strips 60

End Caps and Frame Caps 61

Lateral Bracing Load Reduction Chart & Bearing Loads 62

MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel.

All spot-welded combination members, except P1001T, are welded 3" (76 mm) maximum on center.

STEEL: PLAIN

12 Ga. (2.7 mm), 14 Ga.(1.9 mm) and
16 Ga. (1.5 mm) ASTM A1011 SS GR 33.

STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
16 Ga. (1.5mm) ASTM A653 GR 33.

For other materials, see Special Metals or Fiberglass sections.

FINISHES

All channels are available in:

- Perma Green III (GR).
- Pre-galvanized (PG), conforming to ASTM A653 G90.
- Hot-dipped galvanized (HG), conforming to ASTM A123.
- Plain (PL).

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in millimeters and rounded to one decimal place.

STANDARD LENGTHS

Standard lengths are 10 feet (3.05m) and 20 feet (6.10m). Tolerances are ±⅛" (3 mm). Special lengths are available for a small cutting charge with a tolerance of ±⅛" (3 mm).

CURVED CHANNEL

Contact your local Unistrut Service Center or Unistrut Corporation for more information.

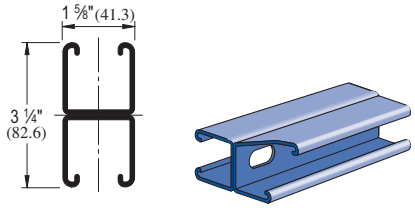
LOAD DATA

All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD. Loads are based on 33 ksi steel cold formed to 42 ksi.

Type of Load	Safety Factor to Yield Strength	Safety Factor to Ultimate Strength
Beam Loads	1.67	2.0
Column Load	1.80	2.2

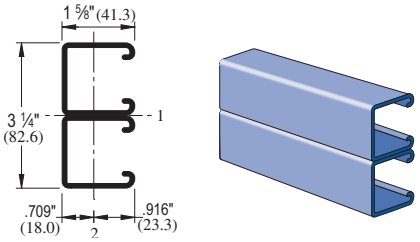
P1001 T

GR PG



Wt/100 Ft: 321 Lbs (478 kg/100 m)
Allowable Moment 12,200 In-Lbs (1,378 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

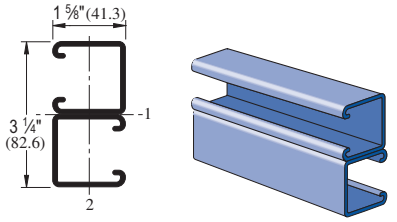
P1001 A



Wt/100 Ft: 378 Lbs (562 kg/100 m)
Allowable Moment 18,640 In-Lbs (2,110 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1001 B

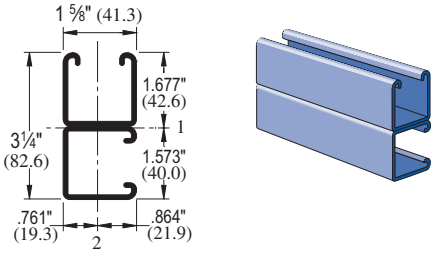
GR PG



Wt/100 Ft: 378 Lbs (562 kg/100 m)
Allowable Moment 18,640 In-Lbs (2,110 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

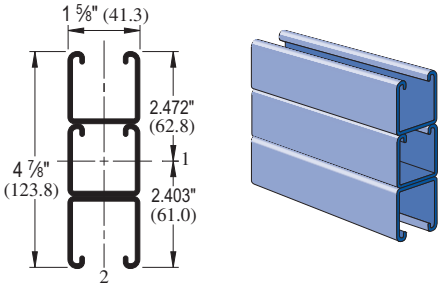
P1001 C

GR PG



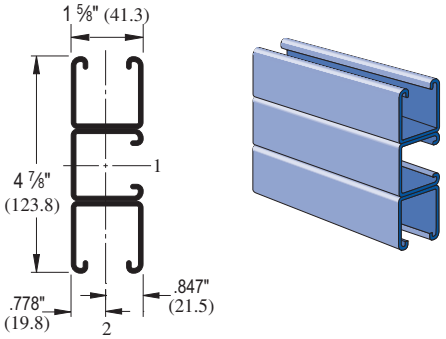
Wt/100 Ft: 378 Lbs (562 kg/100 m)
Allowable Moment 15,950 In-Lbs (1,800 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1001 3



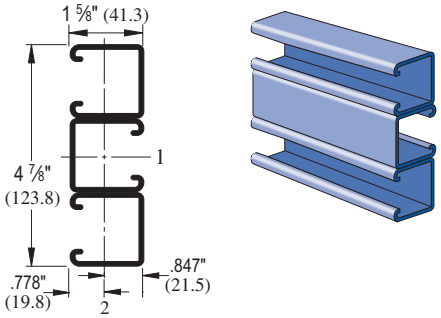
Wt/100 Ft: 566 Lbs (843 kg/100 m)
Allowable Moment 31,840 In-Lbs (3,600 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1001 A3



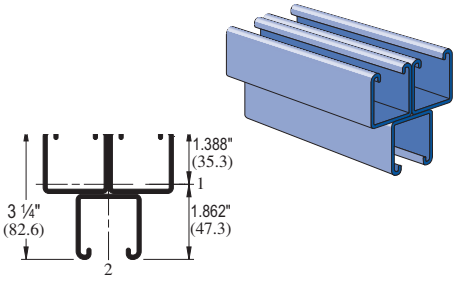
Wt/100 Ft: 566 Lbs (843 kg/100 m)
Allowable Moment 32,770 In-Lbs (3,700 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1001 B3



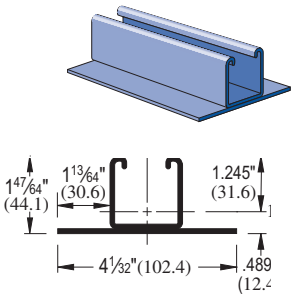
Wt/100 Ft: 566 Lbs (843 kg/100 m)
Allowable Moment 37,550 In-Lbs (4,240 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1001 D3



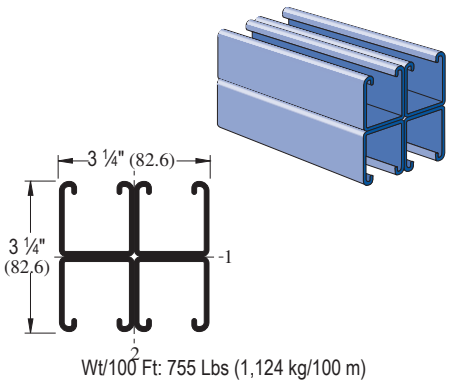
Wt/100 Ft: 566 Lbs (843 kg/100 m)
Allowable Moment 17,550 In-Lbs (1,980 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1003



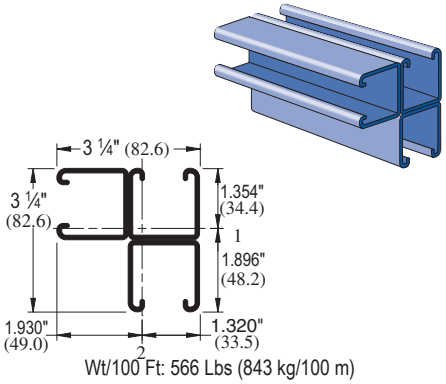
Wt/100 Ft: 333 Lbs (495 kg/100 m)
Allowable Moment 6,240 In-Lbs (700 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1001 C41



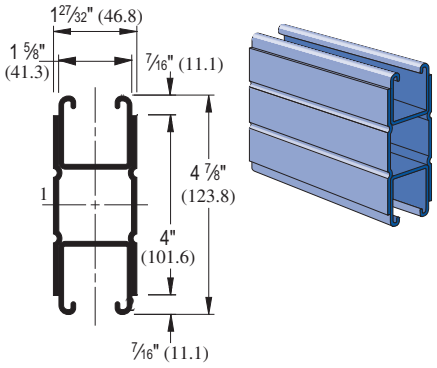
Wt/100 Ft: 755 Lbs (1,124 kg/100 m)
Allowable Moment 28,720 In-Lbs (3,250 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1001 C3



Wt/100 Ft: 566 Lbs (843 kg/100 m)
Allowable Moment 18,680 In-Lbs (2,110 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

P1004 A



Wt/100 Ft: 668 Lbs (994 kg/100 m)
Allowable Moment 41,970 In-Lbs (4,740 N•m)
12 Gauge Nominal Thickness .105" (2.7mm)

Channel Finishes: PL, GR, HG, PG, ZD; Standard Lengths: 10' & 20'