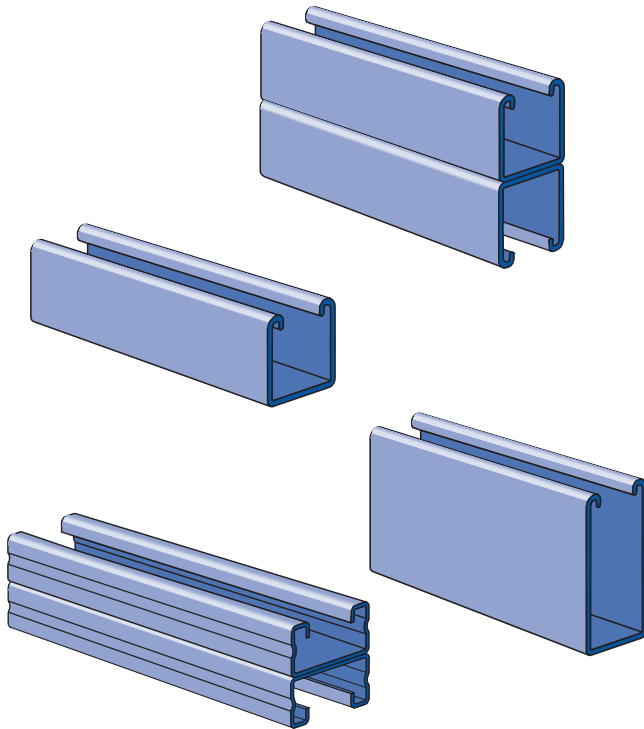


1⁵/₈" CHANNEL



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. (1.5 mm) 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)
- Unistrut Defender™ (DF), conforming to ASTM A1046

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

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 $\pm\frac{1}{8}$ " (3 mm). Special lengths are available for a small cutting charge with a tolerance of $\pm\frac{1}{8}$ " (3 mm).

CURVED CHANNEL

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

LOAD DATA

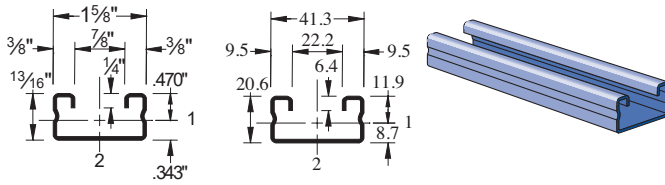
All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD.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

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



P4000

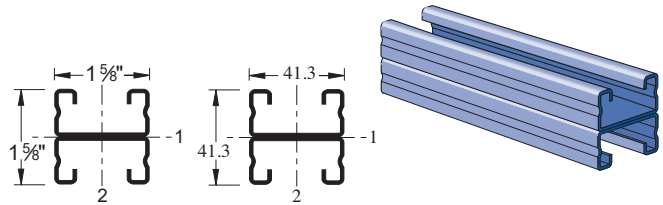
HG PG GR



Wt/100 Ft: 83 Lbs (123 kg/100 m)
Allowable Moment 1,230 In-Lbs (140 N·m)
16 Gauge Nominal Thickness .060" (1.5mm)

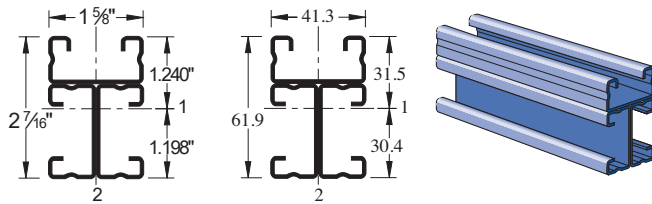
P4001

GR PG



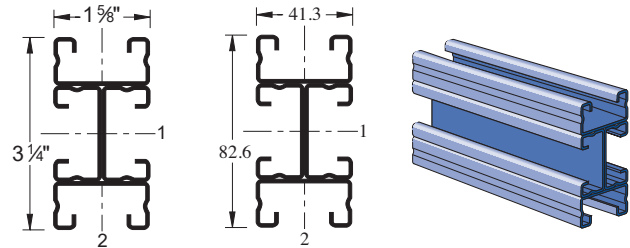
Wt/100 Ft: 166 Lbs (246 kg/100 m)
Allowable Moment 3,210 In-Lbs (360 N·m)
16 Gauge Nominal Thickness .060" (1.5mm)

P4003



Wt/100 Ft: 248 Lbs (370 kg/100 m)
Allowable Moment 8,600 In-Lbs (970 N·m)
16 Gauge Nominal Thickness .060" (1.5mm)

P4004

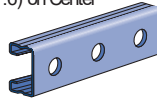


Wt/100 Ft: 331 Lbs (493 kg/100 m)
Allowable Moment 13,650 In-Lbs (1,540 N·m)
16 Gauge Nominal Thickness .060" (1.5mm)

P4000 HS

GR PG

9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center

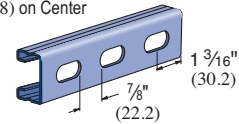


Wt/100 Ft: 79 Lbs (118 kg/100 m)

P4000 T

GR PG

Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (50.8) on Center

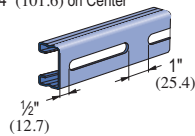


Wt/100 Ft: 79 Lbs (118 kg/100 m)

P4000 SL

GR PG

Slots are
3" (76.2) x 1 3/32" (10.3)
4" (101.6) on Center

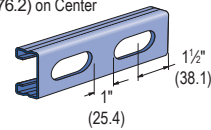


Wt/100 Ft: 79 Lbs (118 kg/100 m)

P4000 WT

DF GR HG PG PL

Slots are
2" (50.8) x 1 1/16" (17.5)
3" (76.2) on Center



Wt/100 Ft: 79 Lbs (118 kg/100 m)

CHANNEL NUTS (REFER TO PAGES 73,74 FOR DETAILS)

SEE PAGE 73, 74



P4006-0832
P4006-1024
P4006-1420
P4007
P4008
P4009
P4010



P4010T



P4012
P4023



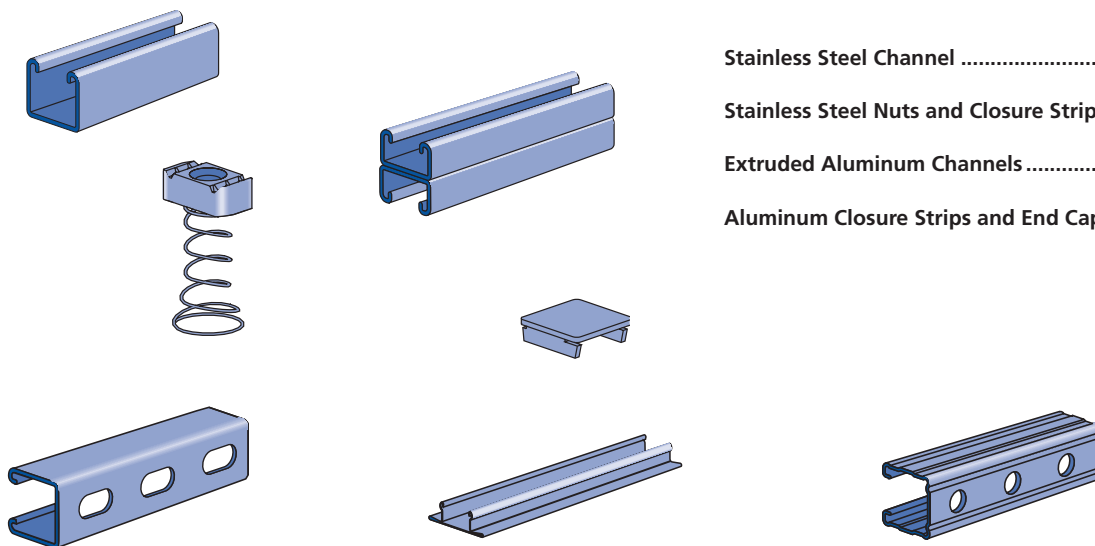
P3006-0832
P3006-1024
P3006-1420
P3007
P3008
P3009
P3013



P3016-0632
P3016-0832
P3016-1024
P3016-1420

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

SPECIAL METALS



Stainless Steel Channel	206
Stainless Steel Nuts and Closure Strips	207
Extruded Aluminum Channels	208 - 209
Aluminum Closure Strips and End Caps	209

MATERIAL

STAINLESS STEEL

Channels: ASTM A 240 (Type 304)

Sintered nuts: ASTM B783 (Type SS316N1-25)

Fittings:

ASTM A240 (Type 304 or Type 316) or ASTM A276 (Type 304 or Type 316)

Contact factory for specific material availability.

ALUMINUM

Channels (Extruded): ASTM B221 (Type 6063-T6)

Fittings: ASTM B209 (Type 1100F or Type 5052-H32)

Nuts: Stainless steel nuts are recommended for Aluminum channel

Material/Finish	Part Number Suffix	Example
Stainless Steel Type 304	SS	P1109 SS
Stainless Steel Type 316	ST	P1109 ST

LOAD DATA (BEAM & COLUMN)

To determine maximum allowable beam and column loading for channels in this section, multiply the load data in the appropriate mild steel channel sections of this catalog by the following factors:

Channel Material	Beam Load % Factor	Column Load % Factor
Extruded Aluminum	33%	33%
Stainless Steel	100%	100%

LOAD DATA (SLIP & PULL OUT)

EXTRUDED ALUMINUM

To determine nut slip resistance, multiply load data for appropriate nut by 75%. To determine nut pull-out load, multiply load data for appropriate nut by 50%.

STAINLESS STEEL

For design assistance, consult Unistrut customer engineering.

PRODUCT AVAILABILITY

Most fittings and channels shown in this catalog, are available in aluminum or stainless steel. Consult factory for ordering information.

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.



1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

PrimeAngle

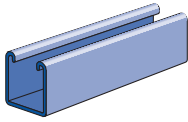
Metal Grating

Roofwalk

Index

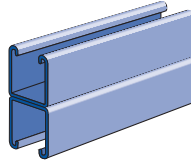
P1000 Series

P1000



W/100 Ft: 190 Lbs (283 kg/100m)

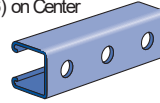
P1001



W/100 Ft: 380 Lbs (566 kg/100m)

P1000HS

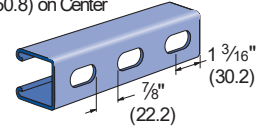
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



W/100 Ft: 185 Lbs (275 kg/100m)

P1000T

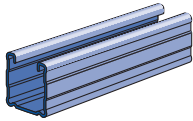
Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (50.8) on Center



W/100 Ft: 185 Lbs (275 kg/100m)

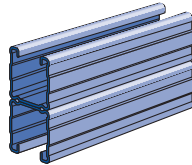
P1100 Series

P1100



W/100 Ft: 142 Lbs (211 kg/100m)

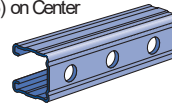
P1101



W/100 Ft: 284 Lbs (422 kg/100m)

P1100HS

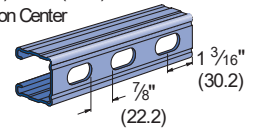
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



W/100 Ft: 136 Lbs (202 kg/100m)

P1100T

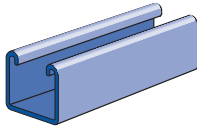
Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (50.8) on Center



W/100 Ft: 136 Lbs (202 kg/100m)

P3000 Series

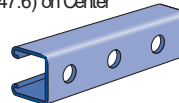
P3000



W/100 Ft: 170 Lbs (253 kg/100m)

P3000HS

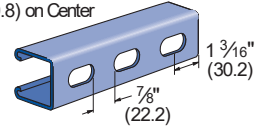
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



W/100 Ft: 165 Lbs (112 kg/100m)

P3000T

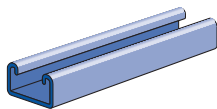
Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (50.8) on Center



W/100 Ft: 165 Lbs (112 kg/100m)

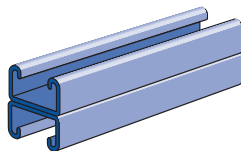
P3300 Series

P3300



W/100 Ft: 135 Lbs (201 kg/100m)

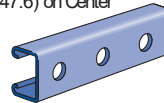
P3301



W/100 Ft: 270 Lbs (402 kg/100m)

P3300HS

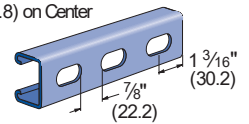
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



W/100 Ft: 130 Lbs (193 kg/100m)

P3300T

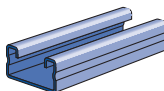
Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (50.8) on Center



W/100 Ft: 130 Lbs (193 kg/100m)

P4000 Series

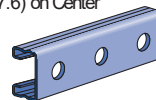
P4000



W/100 Ft: 82 Lbs (122 kg/100m)

P4000HS

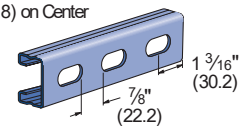
9/16" (14.3) Dia. Holes
1 7/8" (47.6) on Center



W/100 Ft: 79 Lbs (110 kg/100m)

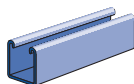
P4000T

Slots are
1 1/8" (28.6) x 9/16" (14.3)
2" (50.8) on Center



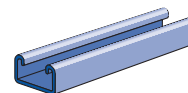
W/100 Ft: 79 Lbs (110 kg/100m)

P6000



W/100 Ft: 37 Lbs (55 kg/100m)

P7000



W/100 Ft: 36 Lbs (54 kg/100m)