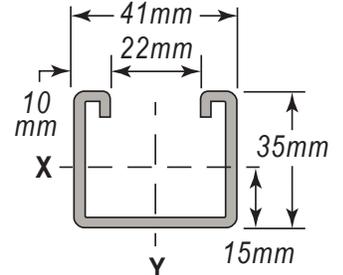
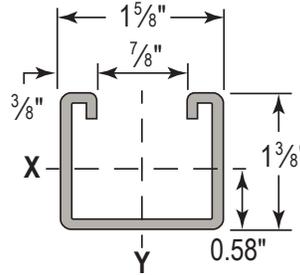
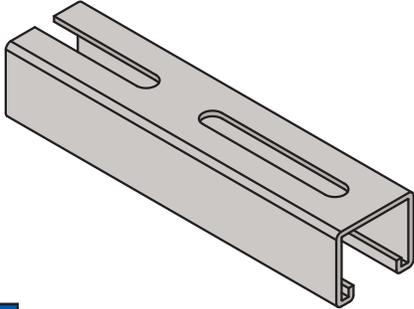


Channel

1-5/8" x 1-3/8" (41mm x 35mm) Channel

12 Gauge with 13/32" x 3" Long Slots on 4" center



| SPECIFYING Brand & Part No. | | Gauge | DISCONTINUED Brands & Part No. | | 1-5/8" x 1-3/8" |
|--|--------|--------|--------------------------------|---------------|-----------------|
| WESANCO | | | VERSABAR | FLORIDA STRUT | |
| Channel with 13/32" x 3" Long Slots on 4" center | | | | | |
| W300SL | 12 Ga. | VA6P3S | FS12138SL | | |

* Various hole patterns available, contact representative for more information

Standard Finish: Pre-Galvanized (PG) • Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

| Finish or Material Order Codes | | | |
|--|--------------------------------------|-----------------------|---|
| Material/Finish | ASTM Designation | Material/Finish Codes | Description |
| Hot Rolled: Channel | A 1011SS GR33 | | Hot rolled carbon steel sheet and strip, structural quality. |
| Cold Rolled: Channel | A 1008SS GR33, A 1008 | | Cold rolled carbon sheet steel. |
| Electroplated | ASTM B 633 | EG | Fittings and hardware supplied as "Electro-Galvanized" |
| Mill-Galvanized (Pre-Galvanized) | A 653 SS GR33 G90. | PG | Galvanized steel used in the manufacture of channel sections. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized After Fabrication | ASTM A 123, ASTM A153, or ASTM A386. | HG | Channel and fittings which are hot dip galvanized after fabrication. |
| Paint-Green Powder Coating | -- | GR | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized. |
| Plain | -- | PL | Other commercially available finishes can be supplied per specification when required to protect applications. |
| Special Coatings Yellow Passivate (Trivalent Chromium) | ASTM B63 | YC | Fittings and hardware supplied as "Electro-Galvanized", with a "Yellow" Dichromate conversion coat versus the clear conversion coat of the EG finish. |
| Stainless Steel: | A 240 TYPE 304 | S4 | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
| | A 240 TYPE 316 | S6 | |
| Aluminum | B 221 TYPE 6063 T6 | AL | Aluminum alloy extruded bar, rod, wire, shape and tube. |

| PROJECT INFORMATION: | | APPROVAL STAMP: |
|-----------------------|--------|-----------------|
| Project: | | |
| Date: | Phone: | |
| Architect / Engineer: | | |
| Contractor: | | |
| Address: | | |
| Notes 1: | | |

W300SL

A08/24 - 62

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

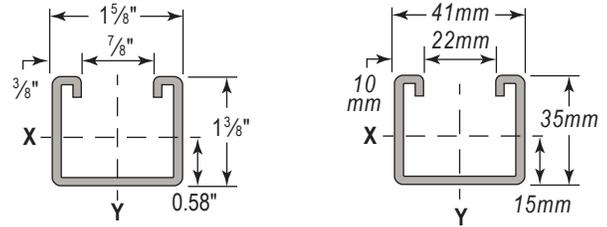
Channel



1-5/8" x 1-3/8" (41mm x 35mm) Channel

12 Gauge with 13/32" x 3" Long Slots on 4" center

Channel Load Data



Section Properties

| 12 Gauge SPECIFYING Brand & Part No. | Wt./Ft. Lbs. (Kg/M) | Area of Section Sq. in. (Sq. cm) | X-X Axis | | | Y-Y Axis | | | DISCONTINUED Brands & Part No. | |
|---|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
| | | | Ix in. ⁴ (Ix cm ⁴) | Sx in. ³ (Sx cm ³) | rx. in. (rx. cm) | Iy in. ⁴ (Iy cm ⁴) | Sy in. ³ (Sy cm ³) | ry in. (ry cm) | VERSABAR | FLORIDA STRUT |
| 1 5/8" x 1 3/8" (41mm x 35mm) 12 Gauge Channel | | | | | | | | | | |
| W300 | 1.73 (2.57) | 0.508 (3.28) | 0.123 (5.12) | 0.158 (2.59) | 0.491 (1.25) | 0.208 (8.66) | 0.256 (4.20) | 0.64 (1.63) | VA6 | FS12138NS |

1 5/8" x 1 3/8" (41mm x 35mm) 12 Gauge Channel

Allowable Beam Loads

| Span | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm) | Lbs (kN) | In (mm) | Lbs (kN) | |
| 12 (305) | 2,650 (11.8) | 0.02 (0.5) | 2,650 (11.8) | 1.00 |
| 24 (610) | 1,320 (5.9) | 0.07 (1.8) | 1,320 (5.9) | 1.00 |
| 36 (914) | 880 (3.9) | 0.15 (3.8) | 880 (3.9) | 0.96 |
| 48 (1,219) | 660 (2.9) | 0.26 (6.6) | 500 (2.2) | 0.91 |
| 60 (1,524) | 530 (2.4) | 0.41 (10.4) | 320 (1.4) | 0.87 |
| 72 (1,829) | 440 (2.0) | 0.59 (15.0) | 220 (1.0) | 0.84 |
| 84 (2,134) | 380 (1.7) | 0.81 (20.6) | 160 (0.7) | 0.81 |
| 96 (2,438) | 330 (1.5) | 1.05 (26.7) | 130 (0.6) | 0.78 |
| 108 (2,743) | 290 (1.3) | 1.31 (33.3) | 100 (0.4) | 0.76 |
| 120 (3,048) | 260 (1.2) | 1.62 (41.1) | 80 (0.4) | 0.74 |

Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm) | Lbs (kN) | Lbs (kN) |
| 12 (305) | 3,480 (15.5) | 10,550 (46.9) |
| 24 (610) | 3,260 (14.5) | 8,150 (36.3) |
| 36 (914) | 2,980 (13.3) | 6,180 (27.5) |
| 48 (1,219) | 2,640 (11.7) | 4,760 (21.2) |
| 60 (1,524) | 2,340 (10.4) | 3,720 (16.5) |
| 72 (1,829) | 2,080 (9.3) | 3,010 (13.4) |
| 84 (2,134) | 1,860 (8.3) | 2,470 (11.0) |
| 96 (2,438) | 1,680 (7.5) | 1,890 (8.4) |
| 108 (2,743) | 1,480 (6.6) | ** |
| 120 (3,048) | 1,280 (5.7) | ** |

** KL/r > 200

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots 0.90
- Channel with Long Slots 0.90**
- Channel with Holes 0.95
- Knock-Out Channel 0.95

