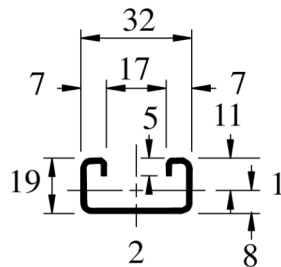
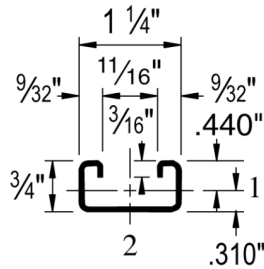
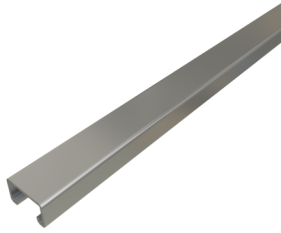


## A3300 - 1-1/4" x 3/4", 14 Gauge Channel

14 Gauge, 1 1/4" Wide Strut Channel A3300 is commonly used for light-duty and OEM applications.

### Features

- Product dimensions are 1 1/4" wide x 3/4" tall x 14 ga. thick, solid.
- Punched holes are also available for ease of installation
- Our PA3300 is available in Pre-Galvanized (PG), Plain (PL), Stainless Steel (SS) and Aluminum (EA).
- Light gauge
- Ideal for light-duty applications
- Made in the USA



### Standard Lengths:

- **10 feet:** 10' or 10' 1/8" (3.05m)  $\pm$  1/2" (13 mm)
- **20 feet:** 20' or 20' 3/8" (6.11m)  $\pm$  1/2" (13 mm)

### Load Data:

- All beam and column load data pertains to carbon steel and stainless steel channels.
- Load tables apply only to UNISTRUT brand channel. Look for "UNISTRUT" on the product.
- 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.
- Safety Factor to Yield Strength is 1.67 for Beam Loads and 1.80 for Column Loads.
- Beam loads are based on a simple beam and are given as a total uniform load (W) in pounds. For proper calculation procedures, refer to our Beam Load Calculation Guide.
- For bearing loads, reference our bearing loads page.

### Welds:

- Welded channels are spot welded 2" (51 mm) or 3" (76 mm) on-center.

### Materials & Finishes - Standard:

- **Pregalvanized (PG):** Conforms to ASTM A653 SS GR 33, G90.
- **Unistrut Defender (DF):** Conforms to ASTM A1046 SS GR 33
- **Hot Dip Galvanized (HG):** Steel conforms to ASTM A1011 SS GR 33, Finish conforms to ASTM A123
- **Perma-Green (GR):** Steel conforms to ASTM A1011 SS GR 33, E-Coat finish
- **Perma-Gold (ZD):** Steel conforms to ASTM A1011 SS GR 33, Finish conforms to ASTM B633, Type II SC3
- **Plain (PL):** Conforms to ASTM A1011 SS GR 33

### Materials & Finishes - Special Metals:

- **Stainless Steel, Type 304 (SS):** ASTM A240, Type 304 \*
- **Stainless Steel, Type 316 (ST):** ASTM A240, Type 316 \*
- **Aluminum (EA):** ASTM B221, Type 6063-T6 (Extruded) \*

\* These materials have different physical properties and performance characteristics. Please contact us for design support.



Catalog Number	Length (ft)	Gauge	Material Type	Surface Finish	Part Weight (lb/ft)	Standard Package Qty (ft)	Standard Package Weight (lb)
A3300 10PG	10	14	Steel	Pre-Galvanized	0.49	500	243.75
A3300 10PL	10	14	Steel	Plain/Oil	0.78	500	390
A3300 16GR	16	14	Steel	Green E-Coat	0.78	800	624
A3300 16HG	16	14	Steel	Hot-Dip Galvanized	0.78	800	624
A3300 16PG	16	14	Steel	Pre-Galvanized	0.78	800	624
A3300 16PL	16	14	Steel	Plain/Oil	0.78	800	624
A3300 20GR	20	14	Steel	Green E-Coat	0.78	1000	780
A3300 20HG	20	14	Steel	Hot-Dip Galvanized	0.8	1000	800
A3300 20PG	20	14	Steel	Pre-Galvanized	0.78	1000	780
A3300 20PL	20	14	Steel	Plain/Oil	0.78	1000	780

Beam Loading - A3300						
Span (in)	Max Allow. Uniform Load (lbs)	Deflection at Uniform Load (in)	Uniform Loading at Deflection			Lateral Bracing Reduction Factor
			Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)	
18	420	0.07	420	420	320	1.00
24	320	0.12	320	270	180	1.00
36	210	0.26	160	120	80	0.97
48	160	0.47	90	70	50	0.94
60	130	0.75	60	40	30	0.91
72	110	1.09	40	30	20	0.89
84	90	1.42	30	20	10	0.87
96	80	1.88	20	20	10	0.85

Refer to the General Specifications for loading information.

Column Loading - A3300					
Unbraced Height (in)	Allowable Load at Slot Face (lbs)	Max Column Load Applied at C.G.			
		K=0.65 (lbs)	K=0.80 (lbs)	K=1.0 (lbs)	K=1.2 (lbs)
18	1,430	4,490	4,210	3,860	3,550
24	1,370	4,090	3,750	3,310	2,680
36	1,190	3,390	2,680	1,820	1,260
48	900	2,380	1,600	1,020	KL/r>200
60	680	1,550	1,020	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Elements of Section - A3300		
Area of Section	0.23 in <sup>2</sup> (1.5 cm <sup>2</sup> )	
	Axis 1-1	Axis 2-2
Moment of Inertia (I)	0.017 in <sup>4</sup> (0.7 cm <sup>4</sup> )	0.052 in <sup>4</sup> (2.2 cm <sup>4</sup> )
Section Modulus (S)	0.038 in <sup>3</sup> (0.6 cm <sup>3</sup> )	0.083 in <sup>3</sup> (1.4 cm <sup>3</sup> )
Radius of Gyration (r)	0.269 in (0.7 cm)	0.477 in (1.2 cm)