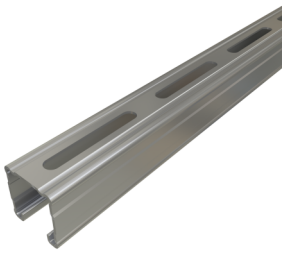

P1100SL - 1-5/8" x 1-5/8", 14 Gauge, Long Slots

14 Gauge Slotted Strut Channel P1100SL has long slots on the back side for use with 3/8" threaded rod and fasteners. These slots can eliminate the need for field drilling and allow adjustability when installing. The slots are 3" long with 1" spacing.

Features

- Slotted for adjustability
- Product dimensions are 1 5/8" wide x 1 5/8" tall x 14 ga. thick; with slots.
- The slots are 13/32" wide x 3" long, 4" on center and sized for use with 3/8" threaded rod or fasteners
- Our P1000SL is available in the following finishes: Pre-Galvanized (PG), Hot-Dip Galvanized (HG), Plain (PL), Green (GR), Zinc Dichromate (ZD) and Stainless Steel (SS).
- Made in the USA

Standard Lengths:
· **10 feet:** 10' or 10' 1/8" (3.05m) ± 1/8" (3 mm)
· **20 feet:** 20' or 20' 3/8" (6.11m) ± 1/8" (3 mm)

Special Lengths:

· Available with a tolerance of ±1/8" (3 mm). Request quote.

Curved Channel:

· Many Unistrut channel sections can be supplied with a curve. Click here for our ordering form, specifications, and instructions.

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 under Resources.
· For bearing loads, reference our Bearing Loads Page.

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.

P1100SL

Atkore Power-Strut | Atkore Unistrut

Catalog Number	Length (ft)	Gauge	Material Type	Surface Finish	Part Weight (lb/ft)	Standard Package Qty (ft)	Standard Package Weight (lb)
P1100SL 10GR	10	14	Steel	Green E-Coat	1.36	500	680
P1100SL 10PG	10	14	Steel	Pre-Galvanized	1.4	500	700
P1100SL 10PL	10	14	Steel	Plain/Oil	1.36	500	680
P1100SL 20GR	20	14	Steel	Green E-Coat	1.4	1000	1400
P1100SL 20PG	20	14	Steel	Pre-Galvanized	0.79	1000	790

Beam Loading - P1100SL

Span (in)	Max Allowable 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)	
24	1,148	0.06	1,148	1,148	1,148	1.00
36	765	0.13	765	765	595	0.89
48	578	0.23	578	502	340	0.78
60	459	0.36	434	323	213	0.68
72	383	0.51	298	221	153	0.59
84	332	0.7	221	162	111	0.52
96	289	0.92	170	128	85	0.47
108	255	1.15	136	102	68	0.43
120	230	1.42	111	77	51	0.40
144	196	2.09	77	60	34	0.36
168	162	2.75	51	43	26	0.32
192	145	3.67	43	34	NR	0.30
216	128	4.61	34	26	NR	0.28
240	119	5.9	26	NR	NR	0.26
Note	NR - Not Recommended					

Refer to the General Specifications for loading information.

Column Loading - P1100SL

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)
24	2,800	8,040	7,330	6,360	5,430
36	2,410	6,480	5,430	4,190	3,210
48	1,940	4,990	3,830	2,760	2,160
60	1,550	3,740	2,760	2,050	1,640
72	1,290	2,860	2,160	1,640	1,320
84	1,100	2,310	1,780	1,370	1,110
96	950	1,950	1,520	1,180	950
108	840	1,690	1,320	1,030	KL/r>200
120	760	1,490	1,180	KL/r>200	KL/r>200
144	630	1,210	950	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Elements of Section - P1100SL		
Area of Section	0.418 in^2 (2.7 cm^2)	
	Axis 1-1	Axis 2-2
Moment of Inertia (I)	0.145 in^4 (6 cm^4)	0.176 in^4 (7.3 cm^4)
Section Modulus (S)	0.162 in^3 (2.7 cm^3)	0.217 in^3 (3.6 cm^3)
Radius of Gyration (r)	0.589 in (1.5 cm)	0.65 in (1.7 cm)