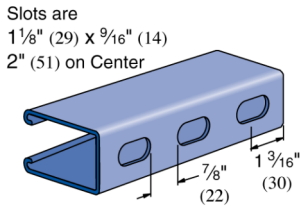

P5500T - 1-5/8" x 2 7/16", 12 Gauge, Slotted

12 Gauge Slotted Strut Channel P5500T (back-to-back slotted) has slots on the back side for use with 1/2" threaded rod and fasteners. The slots are an advantage during installation, eliminating the need for field drilling traditional slotted channel while retaining the adjustability of traditional slotted channel. This slotted option is popular because it's adjustable and accommodates large diameter threaded rod yet has modest load capacity loss versus the solid version. It has 85% of the capacity of the solid version of the profile.

Features

- Product dimensions are 1 5/8" wide x 2 7/16" tall x 12 ga. thick; back-to-back with slots.
- The slots are 9/16" wide x 1 1/8" long, 2" on center and sized for use with 1/2" threaded rod or fasteners
- OPM pre-approved for seismic applications
- Our P5000WT 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' ⅛" (3.05m) ± ⅛" (3 mm)
· **20 feet:** 20' or 20' ⅜" (6.11m) ± ⅛" (3 mm)

Special Lengths:

· Available with a tolerance of ±⅛" (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.

P5500T

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)
P5500T GRN 10	10	12	Steel	Green E-Coat	2.47		
P5500T 10GR	10	12	Steel	Green E-Coat	2.47	250	617.5
P5500T 10HG	10	12	Steel	Hot-Dip Galvanized	2.47	250	617.5
P5500T 10PG	10	12	Steel	Pre-Galvanized	2.47	250	617.5
P5500T 10PL	10	12	Steel	Plain/Oil	2.42	250	605
P5500T 10SS	10	12	Stainless Steel - 304		2.47	250	617.5
P5500T 10ZD	10	12	Steel	Zinc Dichromate	2.47	250	617.5
P5500T GRN 1	16	12	Steel	Green E-Coat	2.47		
P5500T 20GR	20	12	Steel	Green E-Coat	2.47	500	1235
P5500T 20HG	20	12	Steel	Hot-Dip Galvanized	2.42	500	1210
P5500T 20PG	20	12	Steel	Pre-Galvanized	2.47	500	1235
P5500T 20PL	20	12	Steel	Plain/Oil	2.47	500	1235
P5500T 20SS	20	12	Stainless Steel - 304		2.47	500	1235
P5500T 20ZD	20	12	Steel	Zinc Dichromate	2.42	500	1210

Beam Loading - P5500T						
Span (in)	Max Allow. Unifor 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	2,780	0.04	2,780	2,780	2,780	0.99
36	1,853	0.09	1,853	1,853	1,853	0.89
48	1,394	0.15	1,394	1,394	1,207	0.77
60	1,114	0.24	1,114	1,114	774	0.67
72	927	0.34	927	808	536	0.58
84	799	0.47	791	595	400	0.51
96	697	0.61	604	451	306	0.46
108	621	0.78	476	357	238	0.42
120	553	0.95	391	289	196	0.40
144	468	1.39	272	204	136	0.36
168	400	1.89	196	145	102	0.32
192	349	2.46	153	111	77	0.30
216	306	3.07	119	94	60	0.28
240	281	3.86	94	77	51	0.26

Refer to the General Specifications for loading information.

Column Loading - P5500T					
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	4,640	13,840	12,570	10,840	9,190
36	3,970	11,050	9,190	7,030	5,370
48	3,180	8,420	6,390	4,620	3,630
60	2,550	6,250	4,620	3,450	2,780
72	2,120	4,790	3,630	2,780	2,260
84	1,810	3,890	3,010	2,330	1,910
96	1,580	3,290	2,580	2,020	1,650
108	1,400	2,860	2,260	1,770	1,440
120	1,270	2,530	2,020	1,580	KL/r>200
144	1,060	2,070	1,650	KL/r>200	KL/r>200
168	920	1,750	1,380	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Elements of Section - P5500T		
Area of Section	0.726 in^2 (4.7 cm^2)	
	Axis 1-1	Axis 2-2
Moment of Inertia (I)	0.522 in^4 (21.7 cm^4)	0.334 in^4 (13.9 cm^4)
Section Modulus (S)	0.390 in^3 (6.4 cm^3)	0.411 in^3 (6.7 cm^3)
Radius of Gyration (r)	0.848 in (2.2 cm)	0.679 in (1.7 cm)