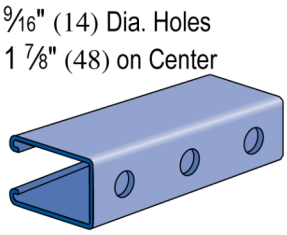

P5000HS - 1-5/8" x 3-1/4", 12 Gauge, Round Holes

12 Gauge Strut Channel with Holes P5000HS has round holes on the back side for use with 1/2" threaded rod and fasteners (or smaller diameters with use of flat washers). These holes can eliminate the need for field drilling when installing a trapeze support, anchoring the channel to a surface, or for many other applications.

Features

- Product dimensions are 1 5/8" wide x 3 1/4" tall x 12 ga. thick; with round holes on one side.
- The holes are 9/16" in diameter and 1 7/8" on center
- The hole diameters and spacing match Atkore's general fittings so that nearly all our fittings can be attached through these holes
- OPM pre-approved for seismic applications
- Our P5000HS is available in the following finishes: Pre-Galvanized (PG), Hot-Dip Galvanized (HG), Plain (PL), and Green (GR).
- 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.

P5000HS

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)
P5000HS 10GR	10	12	Steel	Green E-Coat	3	250	750
P5000HS 10PG	10	12	Steel	Pre-Galvanized	3	250	750
P5000HS 20GR	20	12	Steel	Green E-Coat	3.07	500	1535
P5000HS 20HG	20	12	Steel	Hot-Dip Galvanized	3	500	1500
P5000HS 20PG	20	12	Steel	Pre-Galvanized	3	500	1500
P5000HS 20PL	20	12	Steel	Plain/Oil	3.07	500	1535

Beam Loading - P5000HS						
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)	
24	4,734	0.03	4,734	4,734	4,734	0.98
36	3,150	0.07	3,150	3,150	3,150	0.85
48	2,367	0.12	2,367	2,367	2,367	0.70
60	1,890	0.18	1,890	1,890	1,728	0.55
72	1,575	0.26	1,575	1,575	1,197	0.44
84	1,350	0.36	1,350	1,323	882	0.38
96	1,179	0.47	1,179	1,008	675	0.33
108	1,053	0.59	1053	801	531	0.30
120	945	0.73	864	648	432	0.28
144	792	1.06	603	450	297	0.24
168	675	1.43	441	333	216	0.22
192	594	1.88	333	252	171	0.21
216	522	2.35	270	198	135	0.19
240	477	2.95	216	162	108	0.18
Note	Bearing load may govern capacity.					

Refer to the General Specifications for loading information.

Column Loading - P5000HS					
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	5,650	16,870	15,180	12,850	10,600
36	4,690	13,140	10,600	7,650	5,660
48	3,560	9,550	6,860	4,790	3,660
60	2,730	6,680	4,790	3,450	2,710
72	2,160	4,980	3,660	2,710	2,170
84	1,760	3,950	2,960	2,240	1,820
96	1,500	3,270	2,500	1,930	1,580
108	1,310	2,800	2,170	1,690	1,390
120	1,170	2,450	1,930	1,510	KL/r>200
144	980	1,980	1,580	KL/r>200	KL/r>200
168	850	1,670	1,340	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Elements of Section - P5000HS		
Area of Section	0.897 in^2 (5.8 cm^2)	
	Axis 1-1	Axis 2-2
Moment of Inertia (I)	1.098 in^4 (45.7 cm^4)	0.433 in^4 (18 cm^4)
Section Modulus (S)	0.627 in^3 (10.3 cm^3)	0.533 in^3 (8.7 cm^3)
Radius of Gyration (r)	1.107 in (2.8 cm)	0.695 in (1.8 cm)