

## JUNIOR CHANNEL

*Power-Strut junior channel sections are cold formed from prime quality cold rolled steel. Junior channel fittings are punched from hot rolled, pickled and oiled steel.*

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### ■ STANDARD LENGTHS:

Standard length is 10 feet at a tolerance of  $\pm 1/16$  inches. Shorter lengths are available for a small cutting charge.

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### ■ STANDARD DIMENSIONS FOR FITTINGS:

Fitting Thickness:	1/8"
Fitting Width:	13/16"
Hole Diameter:	9/32"
Hole Spacing:	1 1/16" on centers and 13/32" from end.

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### ■ STANDARD FINISH:

PS 600J and PS 700J junior channels are available in a galvanized or painted green finish. All junior channel fittings are available in electro-galvanized finish.

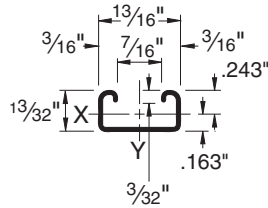
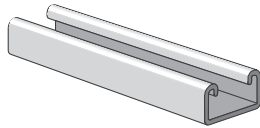
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### ■ ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number. See pages 8-9 for finish abbreviations and an example.

Finish: Electro-galvanized Stock Width:  $1\frac{3}{16}$ " Stock Thickness:  $\frac{1}{8}$ " Stock Length: 10'  
 Order By: No., Size and Finish Hole Spacing:  $1\frac{3}{32}$ " from end,  $1\frac{13}{32}$ " on center Hole Diameter:  $\frac{9}{32}$ "

## PS 700J – Channel ( $1\frac{3}{16}$ " x $1\frac{13}{32}$ " x 19 ga.)



\* Bearing load may govern capacity.

\*\*  $K_L > 200$

Column loads are for allowable axial loads and must be reduced for eccentric loading. For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

### BEAM LOADING – PS 700J

Span (in)	Max Allowable Uniform Load (lbs)	Defl. at Uniform Load (in)	Uniform Loading at Deflection		
			Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)
18	80	0.12	60	50	30
24	60	0.22	40	30	20
30	50	0.36	20	20	10
36	40	0.50	20	10	10

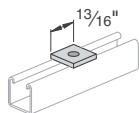
### COLUMN LOADING – PS 700J

Unbraced Height (in)	Max. Allowable Load at Slot Face (lbs)	Maximum Column Load Applied at C.G.			
		K = 0.65 (lbs)	K = 0.80 (lbs)	K = 1.0 (lbs)	K = 1.2 (lbs)
18	420	1,200	990	720	510
24	330	900	640	410	280
30	260	620	410	**	**
36	200	430	280	**	**

### ELEMENTS OF SECTION

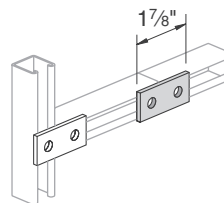
Weight (lbs./100 ft.)	Area of Section (Inch <sup>2</sup> )	X-X Axis			Y-Y Axis		
		Moment of Inertia (Inch <sup>4</sup> )	Section Modulus (Inch <sup>3</sup> )	Radius of Gyration (Inch)	Moment of Inertia (Inch <sup>4</sup> )	Section Modulus (Inch <sup>3</sup> )	Radius of Gyration (Inch)
25	0.074	0.002	0.007	0.150	0.007	0.017	0.307

### PS 2013 – Square Washer



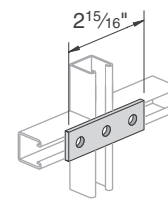
Weight/100 pcs: 2 lbs.

### PS 2014 – Two-Hole Splice Plate



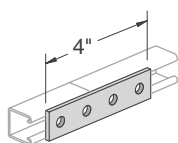
Weight/100 pcs: 5 lbs.

### PS 2015 – Three-Hole Splice Plate



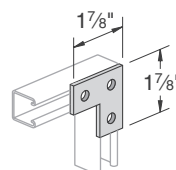
Weight/100 pcs: 8 lbs.

### PS 2016 – Four-Hole Splice Plate



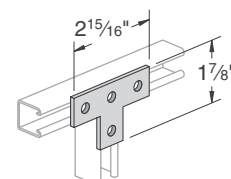
Weight/100 pcs: 11 lbs.

### PS 2033 – Flat Angle Plate



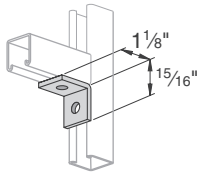
Weight/100 pcs: 8 lbs.

### PS 2034 – Tee Plate



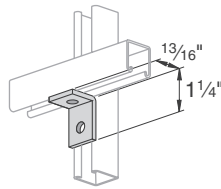
Weight/100 pcs: 11 lbs.

## PS 2008 – Two-Hole Corner Angle



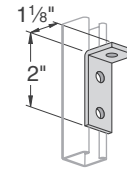
Weight/100 pcs: 5 lbs.

## PS 2017 – Two-Hole Corner Angle



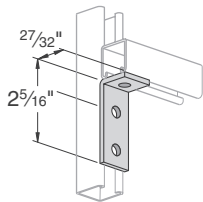
Weight/100 pcs: 5 lbs.

## PS 2018 – Three-Hole Corner Angle



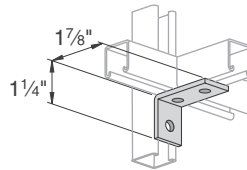
Weight/100 pcs: 8 lbs.

## PS 2025 – Three-Hole Corner Angle



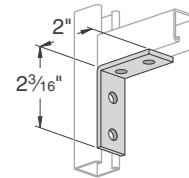
Weight/100 pcs: 8 lbs.

## PS 2037 – Three-Hole Corner Angle



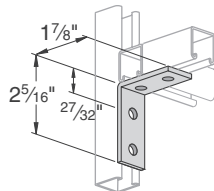
Weight/100 pcs: 8 lbs.

## PS 2019 – Four-Hole Corner Angle



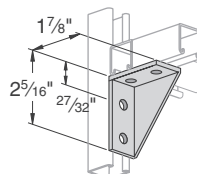
Weight/100 pcs: 11 lbs.

## PS 2024 – Four-Hole Corner Angle



Weight/100 pcs: 11 lbs.

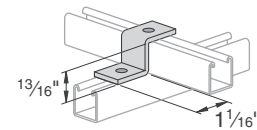
## PS 2023 R or L – Four-Hole Shelf Bracket



**Note:**  
Specify R (right) or L (left) when ordering  
Right Hand Illustrated

Weight/100 pcs: 19 lbs.

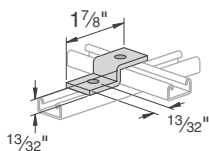
## PS 2010 – Zee Support



Use With: PS 600J

Weight/100 pcs: 7 lbs

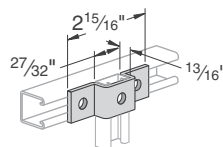
## PS 2026 – Zee Support



Use With: PS 700J

Weight/100 pcs: 6 lbs.

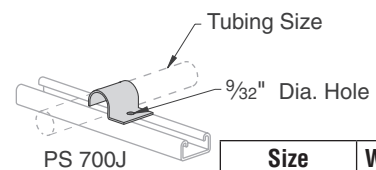
## PS 2011 – "U" Support



Use With: PS 600J

Weight/100 pcs: 12 lbs.

## PS 2041 – Tubing Clamps



Size Tubing O.D.	Wt./100 pcs
1/4"	2
3/8"	
1/2"	
5/8"	
3/4"	3
7/8"	
1"	