

# Strut Products & Accessories

Catalog No. 794



*"The Complete Line of Strut Products & Accessories"*

**PHD Manufacturing, Inc.**

44018 Columbiana-Waterford Road  
Columbiana, Ohio 44408

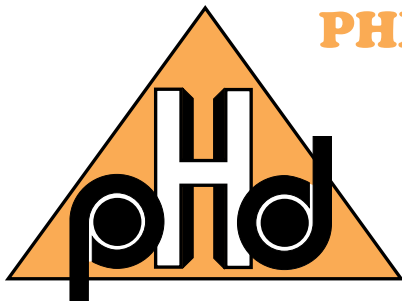
Phone: (800) 321-2736 • (330) 482-9256  
Fax: (330) 482-2763 • [www.phd-mfg.com](http://www.phd-mfg.com)



**P**ride

**H**onesty

**D**edication



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**YOUR LOCAL PHD REPRESENTATIVE IS:**

This catalog was printed in March 2017.  
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	<u>PAGES</u>
• QUICK REFERENCE.....	3
• TERMS & CONDITIONS OF SALE .....	4
• INTRODUCTION .....	5
• TECHNICAL DATA.....	6-20
• MATERIAL SPECIFICATIONS.....	21
• FINISHES .....	22-23
• CHANNEL.....	24-42
• STRUT CLAMPS.....	43-45
• STRUT NUTS.....	46-47
• CONTINUOUS CONCRETE INSERT .....	48
• END CAPS & PLASTIC CLOSURES.....	49
• FLAT PLATE FITTINGS.....	50-55
• 90° FITTINGS.....	56-65
• ANGLE FITTINGS.....	66-67
• BRACES.....	68
• “U” FITTINGS.....	69-71
• “Z” FITTINGS.....	72-75
• WING FITTINGS.....	76-79
• CLEVIS FITTINGS .....	80-82
• MISCELLANEOUS FITTINGS.....	83
• BRACKETS & TROLLEYS .....	84-85
• POST BASES .....	86-89
• BRACKETS.....	90-93
• BEAM CLAMPS.....	94-95
• PIPE CLAMPS .....	96
• PIPE ROLLERS.....	97-98
• INDEX.....	99-100



# TERMS & CONDITIONS OF SALE

## AGREEMENTS:

All agreements are subject to availability of material, strikes, accidents, or other causes beyond our control.

## WARRANTY:

We warrant for one year from date of shipment our manufactured products to the extent that we will replace those having manufacturing defects when used for the purpose which we recommended. If goods are defective, the amount of damage is the price of the defective goods only and no allowance will be made for labor or expense of repairing defective goods or damage resulting from the same. We warrant the products we sell of other manufacturers to the extent of the warranties of their respective maker. This is the seller's sole warranty. Seller makes no other warranty of any kind, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose which exceed seller's aforesaid obligation are hereby disclaimed by seller and excluded from this warranty.

For special order products made to the customer's specification, warranty is not valid and we are not responsible for load requirements or liable for damages incurred from product failure.

## CLAIMS:

No claims for shortages allowed unless made in writing within ten days of receipt of goods. All goods sent out will be carefully examined, counted and packed. Claims for goods damaged or lost in transit should be made on the carrier, as our responsibility ceases on delivery to the carrier.

## SPECIAL ORDERS:

Orders covering special or nonstandard goods are not subject to cancellation except on such terms as may be agreed upon.

## TERMS AND DESIGN:

Subject to change without notice. Refer to current price list for terms of sale. PHD reserves the right to revise product design without notification.

## RETURNS:

We cannot accept return of any goods unless PHD's written permission has been first obtained, in which case same will be credited as follows:

- 1) All goods must be received in our plant in first class condition; if not, the cost of putting in salable condition will be deducted from credit.
- 2) Twenty-five percent (25%) will be deducted from credit memoranda issued for handling and restocking, less any charges allowed or paid by PHD Mfg., Inc.
- 3) Goods must be returned prepaid.
- 4) P.O.A. items cannot be returned.
- 5) There will be no returns of goods after one year from purchase date. Customer must provide invoice number.
- 6) There will be no return of goods under \$50.00, unless it is the result of PHD's error.

## TAXES:

To the price and terms quoted, there will be added any manufacturer's or sales taxes payable on the transaction under any effective statute.

## MINIMUM INVOICE:

\$50.00 plus transportation.

## FREIGHT ALLOWANCE:

All prices are F.O.B. point of shipment. On shipments of 2500 lbs. or more, rail freight or motor freight at the lowest published price is allowed to all U.S. highway points listed in published tariffs (Hawaii and Alaska excluded).

## TERMS:

Net 30 days. Monthly settlements on all accounts. One and-a-half percent ( $1\frac{1}{2}\%$ ) per month or eighteen percent (18%) per annum will be charged on all past due accounts, starting on the 31<sup>st</sup> day after the date of invoice.

## DIMENSIONS & WEIGHTS:

Although PHD Manufacturing tries to be as accurate as possible, all listed dimensions and weights are an approximation and are not guaranteed.

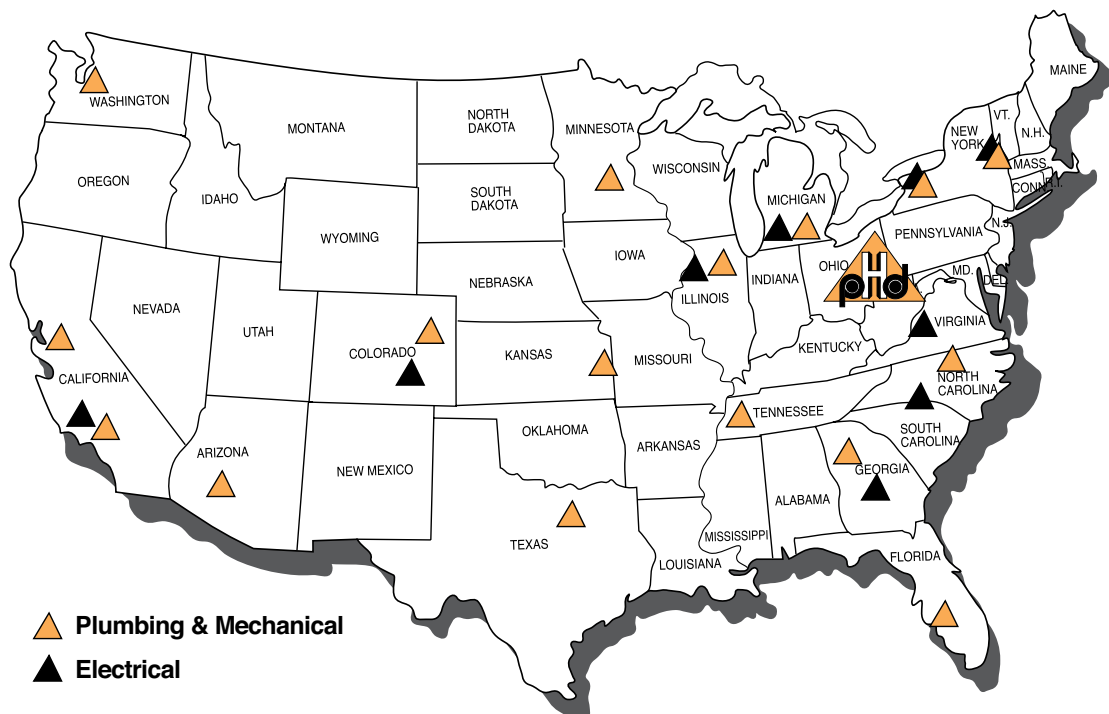
PHD Manufacturing, Inc. was founded in 1972 by a group of industry veterans with strong management, financial, sales and manufacturing backgrounds. The entrepreneurial vision of this close group used the talents they acquired over the years to forge something special in a business that needed a different purpose. This core group continues to manage PHD today, ensuring the original commitment to quality and excellence.

Our 33 professional sales representatives supporting the plumbing, mechanical and electrical industries are ready to serve your needs. Our manufacturing plant in Columbiana, Ohio, together with our 24 stocking warehouses throughout the United States, gives us one of the largest inventories in the industry.

Many of our products are Underwriter's Laboratories listed and Factory Mutual Approved. All PHD products are manufactured to meet or exceed industry standards set for their design and manufacture.

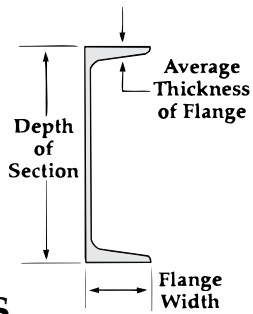
If you need a product not listed in this catalog, please call the factory or your local PHD representative to check availability and pricing.

## PHD Plumbing & Mechanical Stock Locations PHD Electrical Stock Locations



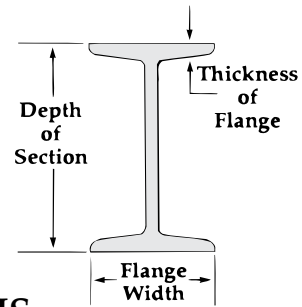


# TECHNICAL DATA



## CHANNELS AMERICAN STANDARD

Depth of section	Width of Flange	Average Thickness of Flange	Wt. Per Foot (in lbs.)
3	1 <sup>3</sup> / <sub>8</sub>	.273	4.1
	1 <sup>1</sup> / <sub>2</sub>		5.0
	1 <sup>5</sup> / <sub>8</sub>		6.0
4	1 <sup>5</sup> / <sub>8</sub>	.296	5.4
	1 <sup>3</sup> / <sub>4</sub>		7.25
5	1 <sup>3</sup> / <sub>4</sub>	.320	6.7
	1 <sup>7</sup> / <sub>8</sub>		9.0
6	1 <sup>7</sup> / <sub>8</sub>	.343	8.2
	2		10.5
	2 <sup>1</sup> / <sub>8</sub>		13.0
7	2 <sup>1</sup> / <sub>8</sub>	.366	9.8
	2 <sup>1</sup> / <sub>4</sub>		12.25
	2 <sup>1</sup> / <sub>4</sub>		14.75
8	2 <sup>1</sup> / <sub>4</sub>	.390	11.5
	2 <sup>3</sup> / <sub>8</sub>		13.75
	2 <sup>1</sup> / <sub>2</sub>		18.75
9	2 <sup>3</sup> / <sub>8</sub>	.413	13.4
	2 <sup>1</sup> / <sub>2</sub>		15
	2 <sup>5</sup> / <sub>8</sub>		20
10	2 <sup>5</sup> / <sub>8</sub>	.436	15.3
	2 <sup>3</sup> / <sub>4</sub>		20
	2 <sup>7</sup> / <sub>8</sub>		25
	3		30
12	3	.501	20.7
	3		25
	3 <sup>1</sup> / <sub>8</sub>		30
15	3 <sup>3</sup> / <sub>8</sub>	.650	33.9
	3 <sup>1</sup> / <sub>2</sub>		40
	3 <sup>3</sup> / <sub>4</sub>		50
18	4	.625	42.7
	4		45.8
	4 <sup>1</sup> / <sub>8</sub>		51.9
	4 <sup>1</sup> / <sub>4</sub>		58



## I BEAMS AMERICAN STANDARD

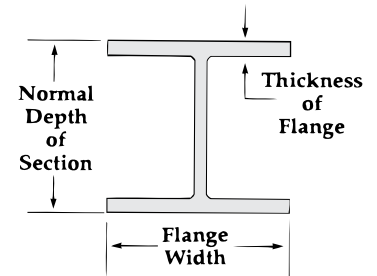
Depth of section	Width of Flange	Average Thickness of Flange	Wt. Per Foot (in lbs.)
3	2 <sup>3</sup> / <sub>8</sub>	.260	5.7
	2 <sup>1</sup> / <sub>2</sub>		7.5
4	2 <sup>5</sup> / <sub>8</sub>	.293	7.7
	2 <sup>3</sup> / <sub>4</sub>		9.5
5	3	.326	10
	3 <sup>1</sup> / <sub>4</sub>		14.75
6	3 <sup>3</sup> / <sub>8</sub>	.359	12.5
	3 <sup>5</sup> / <sub>8</sub>		17.25
7	3 <sup>5</sup> / <sub>8</sub>	.392	15.3
	3 <sup>7</sup> / <sub>8</sub>		20
8	4	.425	18.4
	4 <sup>1</sup> / <sub>8</sub>		23
10	4 <sup>5</sup> / <sub>8</sub>	.491	25.4
	5		35
12	5	.544	31.8
	5 <sup>1</sup> / <sub>8</sub>		35
	5 <sup>1</sup> / <sub>4</sub>		40.8
	5 <sup>1</sup> / <sub>2</sub>		50
15	5 <sup>1</sup> / <sub>2</sub>	.622	42.9
	5 <sup>5</sup> / <sub>8</sub>		50
18	6	.691	54.7
	6 <sup>1</sup> / <sub>4</sub>		70
20	6 <sup>1</sup> / <sub>4</sub>	.789	65.4
	6 <sup>3</sup> / <sub>8</sub>		75
	7		85
	7 <sup>1</sup> / <sub>4</sub>		95
24	7	.871	79.9
	7 <sup>1</sup> / <sub>8</sub>		90
	7 <sup>1</sup> / <sub>4</sub>		100
	7 <sup>7</sup> / <sub>8</sub>		105.9
	8		110.2
	8		120

# TECHNICAL DATA



## WIDE FLANGE BEAMS

Nominal Depth of Section	Width of Flange	Thickness of Flange	Wt. Per Foot (in lbs.)	Nominal Depth of Section	Width of Flange	Thickness of Flange	Wt. Per Foot (in lbs.)
5	5	.360	16	14	5	.335	22
	5	.430	19		5	.420	26
6	4	.280	12		6 <sup>3/4</sup>	.385	30
	4	.405	16		6 <sup>3/4</sup>	.455	34
	6	.365	20		6 <sup>3/4</sup>	.515	38
	6 <sup>1/8</sup>	.455	25		8	.530	43
8	4	.255	13		8	.595	48
	4	.315	15		8	.660	53
	5 <sup>1/4</sup>	.330	18		10	.645	61
	5 <sup>1/4</sup>	.400	21		10	.720	68
	6 <sup>1/2</sup>	.400	24		10 <sup>1/8</sup>	.785	74
	6 <sup>1/2</sup>	.465	28		10 <sup>1/8</sup>	.855	82
	8	.435	31		14 <sup>1/2</sup>	.710	90
	8	.495	35		14 <sup>5/8</sup>	.780	99
	8 <sup>1/8</sup>	.560	40		14 <sup>5/8</sup>	.860	109
	8 <sup>1/8</sup>	.685	48		14 <sup>5/8</sup>	.940	120
	8 <sup>1/4</sup>	.810	58		14 <sup>3/4</sup>	1.030	132
8 <sup>1/4</sup>	.935	67	15 <sup>1/2</sup>		1.090	145	
10	4	.270	15		15 <sup>5/8</sup>	1.190	159
	4	.330	17		15 <sup>5/8</sup>	1.310	176
	4	.395	19		15 <sup>3/4</sup>	1.440	193
	5 <sup>3/4</sup>	.360	22	15 <sup>3/4</sup>	1.560	211	
	5 <sup>3/4</sup>	.440	26	15 <sup>7/8</sup>	1.720	233	
	5 <sup>3/4</sup>	.510	30	16	1.890	257	
	8	.435	33	16 <sup>1/8</sup>	2.070	283	
	8	.530	39	16 <sup>1/4</sup>	2.260	311	
	8	.620	45	16 <sup>3/8</sup>	2.470	342	
	10	.560	49	16 <sup>1/2</sup>	2.660	370	
	10	.615	54	16 <sup>5/8</sup>	2.840	398	
	10 <sup>1/8</sup>	.680	60	16 <sup>3/4</sup>	3.030	426	
	10 <sup>1/8</sup>	.770	68	16	5 <sup>1/2</sup>	.345	26
	10 <sup>1/4</sup>	.870	77		5 <sup>1/2</sup>	.440	31
	10 <sup>1/4</sup>	.990	88		7	.430	36
10 <sup>3/8</sup>	1.120	100	7		.505	40	
10 <sup>3/8</sup>	1.250	112	7		.565	45	
12	4	.265	16		7 <sup>1/8</sup>	.630	50
	4	.350	19		7 <sup>1/8</sup>	.715	57
	4	.425	22		10 <sup>1/4</sup>	.665	67
	6 <sup>1/2</sup>	.380	26		10 <sup>1/4</sup>	.760	77
	6 <sup>1/2</sup>	.440	30		10 <sup>3/8</sup>	.815	89
	6 <sup>5/8</sup>	.520	35	10 <sup>3/8</sup>	.985	100	
	8	.515	40	18	6	.425	35
	8	.575	45		6	.525	40
	8 <sup>1/8</sup>	.640	50		6 <sup>1/16</sup>	.605	46
	10	.575	53		7 <sup>1/2</sup>	.570	50
10	.640	58	7 <sup>1/2</sup>		.630	55	
12	.605	65	7 <sup>1/2</sup>		.695	60	
12	.670	72	7 <sup>5/8</sup>		.750	65	
12 <sup>1/8</sup>	.735	79	7 <sup>5/8</sup>		.810	71	
12 <sup>1/8</sup>	.810	87	11		.680	76	
12 <sup>1/8</sup>	.900	96	11 <sup>1/8</sup>		.770	86	
12 <sup>1/4</sup>	.990	106	11 <sup>1/8</sup>	.870	97		
12 <sup>3/8</sup>	1.100	120	11 <sup>1/4</sup>	.940	106		
12 <sup>3/8</sup>	1.250	136	11 <sup>1/4</sup>	1.060	119		
12 <sup>1/2</sup>	1.400	152	21	6 <sup>1/2</sup>	.450	44	
12 <sup>5/8</sup>	1.730	190		6 <sup>1/2</sup>	.535	50	



Nominal Depth of Section	Width of Flange	Thickness of Flange	Wt. Per Foot (in lbs.)
21	6 <sup>1/2</sup>	.650	57
	8 <sup>1/4</sup>	.615	62
	8 <sup>1/4</sup>	.685	68
	8 <sup>1/4</sup>	.740	73
	8 <sup>3/8</sup>	.835	83
	8 <sup>3/8</sup>	.930	93
	12 <sup>3/8</sup>	.875	111
24	12 <sup>3/8</sup>	.960	122
	12 <sup>1/2</sup>	1.150	147
	7	.505	55
	7	.590	62
	9	.585	68
	9	.680	76
	9	.770	84
27	9 <sup>1/8</sup>	.875	94
	12 <sup>3/4</sup>	.750	104
	12 <sup>3/4</sup>	.850	117
	12 <sup>7/8</sup>	.960	131
	12 <sup>7/8</sup>	1.090	146
	13	1.220	162
	30	10	.640
10		.745	94
10		.830	102
10 <sup>1/8</sup>		.930	114
14		.975	146
14		1.080	161
14 <sup>1/8</sup>		1.190	178
33	10 <sup>1/2</sup>	.670	99
	10 <sup>1/2</sup>	.760	108
	10 <sup>1/2</sup>	.850	116
	10 <sup>1/2</sup>	.930	124
	10 <sup>1/2</sup>	1.000	132
	15	1.060	173
	15	1.180	191
36	15 <sup>1/8</sup>	1.310	211
	11 <sup>1/2</sup>	.740	118
	11 <sup>1/2</sup>	.855	130
36	11 <sup>1/2</sup>	.960	141
	12	.790	135
	12	.940	150
	12	1.020	160



# TECHNICAL DATA

## Steel Pipe Data SCHEDULE 40 & 80

Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
				Water	Pipe
3/8	40	.675	.091	.083	.567
	80		.126	.061	.738
1/2	40	.840	.109	.132	.850
	80		.147	.101	1.087
3/4	40	1.050	.113	.230	1.130
	80		.154	.186	1.473
1	40	1.315	.133	.374	1.678
	80		.179	.311	2.171
1 1/4	40	1.660	.140	.647	2.272
	80		.191	.555	2.996
1 1/2	40	1.900	.145	.882	2.717
	80		.200	.765	3.631
2	40	2.375	.154	1.452	3.652
	80		.218	1.279	5.022
2 1/2	40	2.875	.203	2.072	5.790
	80		.276	1.834	7.660
3	40	3.500	.216	3.200	7.570
	80		.300	2.860	10.250
3 1/2	40	4.000	.226	4.280	9.110
	80		.318	3.850	12.510
4	40	4.500	.237	5.510	10.790
	80		.337	4.980	14.980

Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
				Water	Pipe
5	40	5.563	.258	8.660	14.620
	80		.375	7.870	20.780
6	40	6.625	.280	12.510	18.970
	80		.432	11.920	28.570
8	40	8.625	.322	21.600	28.550
	80		.500	19.800	43.390
10	40	10.750	.365	34.100	40.480
	80		.593	31.100	64.400
12	40	12.750	.406	48.500	53.600
	80		.687	44.000	88.600
14	40	14.000	.437	58.500	63.000
	80		.750	51.200	107.000
16	40	16.000	.500	76.500	83.000
	80		.843	69.700	137.000
18	40	18.000	.563	97.200	105.000
	80		.937	88.500	171.000
20	40	20.000	.593	120.400	123.000
	80		1.031	109.400	209.000
24	40	24.000	.687	174.200	171.000
	80		1.218	158.200	297.000
30	20	30.000	.500	286.000	158.000
36	API	36.000	.500	417.000	190.000

## Spacing of Hangers For Steel Pipe

Nominal Pipe Size, Inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24
Maximum Span. Feet	7	7	7	7	9	10	11	12	13	14	16	17	19	22	23	25	27	28	30	32
Recommended Hanger Rod Sizes	3/8	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	5/8	5/8	3/4	3/4	7/8	7/8	1	1	1 1/8 1 1/4 1 1/4 OR TRAPEZE		

*Note: Spacing and capacities are based on pipe filled with water. Additional valves and fittings increase the load and therefore closer hanger spacing is required.*

\*Many Codes and specifications require pipe hangers to be spaced every 10 feet regardless of size. Check local codes.



# TECHNICAL DATA



## Copper Tube Data

### TYPE L

Tube Size	Tubing O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
			Water	Pipe
1/4	.375	.030	.034	.126
3/8	.500	.035	.062	.198
1/2	.625	.040	.100	.285
5/8	.750	.042	.151	.362
3/4	.875	.045	.209	.455
1	1.125	.050	.357	.655
1 1/4	1.375	.055	.546	.884
1 1/2	1.625	.060	.767	1.140
2	2.125	.070	1.341	1.750
2 1/2	2.625	.080	2.064	2.480
3	3.125	.090	2.949	3.330
3 1/2	3.625	.100	3.989	4.290
4	4.125	.110	5.188	5.380
5	5.125	.125	8.081	7.610
6	6.125	.140	11.616	10.200
8	8.125	.200	20.289	19.260
10	10.125	.250	31.590	30.100
12	12.125	.280	45.426	40.400

### TYPE K

Tube Size	Tubing O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
			Water	Pipe
1/4	.375	.035	.032	.145
3/8	.500	.049	.055	.269
1/2	.625	.049	.094	.344
5/8	.750	.049	.144	.418
3/4	.875	.065	.188	.641
1	1.125	.065	.337	.839
1 1/4	1.375	.065	.527	1.040
1 1/2	1.625	.072	.743	1.360
2	2.125	.083	1.310	2.060
2 1/2	2.625	.095	2.000	2.920
3	3.125	.109	2.960	4.000
3 1/2	3.625	.120	3.900	5.120
4	4.125	.134	5.060	6.510
5	5.125	.160	8.000	9.670
6	6.125	.192	11.200	13.870
8	8.125	.271	19.500	25.900
10	10.125	.338	30.423	40.300
12	12.125	.405	43.675	57.800

## Spacing of Hangers For Copper Tubing

Tubing Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12
Span in Ft.	6	8	8	10	10	10	12	12	12	12	12	14	14	18	19

*Note: Spacing and capacities are based on pipe filled with water. Additional valves and fittings increase the load and therefore closer hanger spacing is required.*

## AWWA Ductile Iron Pipe Data

Based on AWWA C108-70, Table 8.2.  
Add flange weight for flanged cast iron pipe.

Nom. Pipe Size	Class	O.D. D.I. Pipe	Wall Thick.	Wt. Per Foot (in lbs.)	
				Pipe	Water
3	53	3.96	.31	11.20	3.80
4	53	4.80	.32	14.20	5.90
6	53	6.90	.34	22.00	13.10
8	53	9.05	.36	31.00	23.00
10	53	11.10	.38	40.40	36.40
12	53	13.20	.40	50.70	52.30
14	53	15.30	.42	62.40	71.10
16	53	17.40	.43	72.80	93.10
18	53	19.50	.44	83.60	117.90
20	53	21.60	.45	95.20	145.80
24	53	25.80	.47	119.20	210.20
30	53	32.00	.51	161.30	326.50
36	53	38.30	.58	219.50	469.30
42	53	44.50	.65	285.20	634.90
48	53	50.80	.72	360.30	828.90

## Glass Pipe Data

### REGULAR SCHEDULE

Nom. Pipe Size	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
			Pipe	Water
1 1/2	1.84	.12	.64	.89
2	2.34	.14	.94	1.45
3	3.41	.17	1.60	3.19
4	4.53	.20	2.60	5.79
6	6.66	.24	4.70	12.78

### HEAVY SCHEDULE

1	1.31	.16	.60	.35
1 1/2	1.84	.17	.87	.76
2	2.34	.17	1.10	1.36
3	3.41	.20	2.00	3.06
4	4.53	.26	3.40	5.44
6	6.66	.33	6.30	12.42

Spacing of Hangers for glass pipe support every 8-10 ft. Pad all hangers. Use only clevis or trapeze, do not tie down pipe.



# TECHNICAL DATA

## PVC Plastic Pipe Data SCHEDULE 40 & 80

Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
				Water	Pipe
1/8	40	.405	.068	.025	.043
	80		.095	.016	.055
1/4	40	.540	.088	.045	.074
	80		.119	.031	.094
3/8	40	.675	.091	.083	.100
	80		.126	.061	.129
1/2	40	.840	.109	.132	.150
	80		.147	.101	.150
3/4	40	1.050	.113	.230	.199
	80		.154	.186	.259
1	40	1.315	.133	.374	.295
	80		.179	.311	.382
1 1/4	40	1.660	.140	.647	.400
	80		.191	.555	.527
1 1/2	40	1.900	.145	.882	.478
	80		.200	.765	.639
2	40	2.375	.154	1.452	.643
	80		.218	1.279	.884

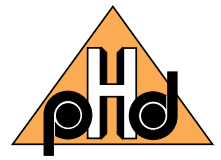
Pipe Size	Schedule No.	O.D.	Wall Thickness	Wt. Per Foot (in lbs.)	
				Water	Pipe
2 1/2	40	2.875	.203	2.072	1.020
	80		.276	1.834	1.350
3	40	3.500	.216	3.200	1.333
	80		.300	2.860	1.804
3 1/2	40	4.000	.226	4.280	1.598
	80		.318	3.850	2.195
4	40	4.500	.237	5.510	1.899
	80		.337	4.980	2.636
5	40	5.563	.258	8.660	2.770
	80		.375	7.870	4.126
6	40	6.625	.280	12.150	3.339
	80		.432	11.290	5.028
8	40	8.625	.322	21.600	5.280
	80		.500	19.800	8.023
10	40	10.750	.366	34.100	7.505
	80		.593	31.100	11.894
12	40	12.750	.406	48.500	10.023
	80		.687	44.000	16.365

## Spacing of Hangers For PVC Plastic Pipe

Schedule 40 Pipe Size	Support Spacings (In Feet)										
	Temperature										
	20°F	40°F	60°F	80°F	100°F	110°F	120°F	130°F	140°F	150°F	
1/2 to 3/4	5.00	4.75	4.50	4.25	4.00	3.75	3.33	3.00	2.66	2.00	
1 to 1 1/4	5.50	5.25	5.00	4.66	4.33	4.00	3.75	3.33	2.80	2.25	
1 1/2 to 2	5.80	5.50	5.25	5.00	4.66	4.33	3.80	3.50	3.00	2.50	
2 1/2	6.66	6.33	6.00	5.50	5.25	4.80	4.50	4.00	3.50	2.80	
3	6.80	6.50	6.25	5.80	5.50	5.25	4.75	4.25	3.66	3.00	
4	7.33	7.00	6.50	6.25	5.80	5.50	5.00	4.50	3.80	3.25	
6	7.80	7.50	7.00	6.80	6.33	5.80	5.33	4.80	4.25	3.50	

Schedule 80 Pipe Size	Support Spacings (In Feet)										
	Temperature										
	20°F	40°F	60°F	80°F	100°F	110°F	120°F	130°F	140°F	150°F	
1/2 to 3/4	5.75	5.50	5.25	4.80	4.50	4.33	3.80	3.50	3.00	2.50	
1	6.33	6.00	5.75	5.33	5.00	4.60	4.33	3.80	3.33	2.75	
1 1/4 to 1 1/2	6.66	6.33	6.00	5.66	5.25	4.80	4.50	4.00	3.50	3.00	
2	7.00	6.50	6.25	6.00	5.50	5.12	4.75	4.33	3.66	3.12	
2 1/2	7.80	7.50	7.00	6.66	6.33	5.80	5.33	4.75	4.25	3.33	
3	8.20	7.75	7.33	7.00	6.50	6.00	5.50	5.00	4.33	3.50	
4	8.66	8.25	7.80	7.33	6.80	6.33	5.80	5.25	4.66	3.75	
6	9.80	9.33	8.80	8.33	7.80	7.33	6.50	6.00	5.12	4.25	

# TECHNICAL DATA



## Conduit Data

### ELECTRICAL METALLIC TUBING DATA

Nominal Size EMT Conduit	O.D. Conduit	O.D. Coupling	Weight Conduit W/C Plg. lbs./ft.	Approx. Max. Weight Conduit and Conductor lbs./ft.	
				Lead Covered	Not Lead Covered
1/2	.706	N/A	.29	N/A	.54
3/4	.922	—	.45	—	1.16
1	1.163	—	.65	—	1.83
1 1/4	1.510	—	.96	—	2.96
1 1/2	1.740	—	1.11	—	3.68
2	2.197	—	1.41	—	4.45
2 1/2	2.875	—	2.15	—	6.41
3	3.500	—	2.60	—	9.30
3 1/2	4.000	—	3.25	—	12.15
4	4.500	—	3.90	—	15.40

Note: 2 1/2 through 4" EMT same as steel rigid conduit.

### STEEL RIGID CONDUIT DATA

Nominal Size EMT Conduit	O.D. Conduit	O.D. Coupling	Weight Conduit W/C Plg. lbs./ft.	Approx. Max. Weight Conduit and Conductor lbs./ft.	
				Lead Covered	Not Lead Covered
1/2	.840	1.010	.80	1.17	1.04
3/4	1.050	1.250	1.09	1.75	1.40
1	1.315	1.525	1.65	2.62	2.35
1 1/4	1.660	1.869	2.15	4.31	3.58
1 1/2	1.900	2.155	2.58	5.89	4.55
2	2.375	2.650	3.52	8.53	7.21
2 1/2	2.875	3.250	5.67	11.51	10.22
3	3.500	3.870	7.14	16.51	14.51
3 1/2	4.000	4.500	8.60	19.05	17.49
4	4.500	4.875	10.00	24.75	21.48
5	5.563	6.000	13.20	35.87	30.83
6	6.625	7.200	17.85	50.69	43.43

### INTERMEDIATE METAL CONDUIT DATA

Nominal Size EMT Conduit	O.D. Conduit	O.D. Coupling	Weight Conduit W/C Plg. lbs./ft.	Approx. Max. Weight Conduit and Conductor lbs./ft.	
				Lead Covered	Not Lead Covered
1/2	.815	1.010	.60	.97	.84
3/4	1.029	1.250	.82	1.48	1.13
1	1.290	1.525	1.16	2.13	1.86
1 1/4	1.638	1.869	1.50	3.66	2.93
1 1/2	1.883	2.155	1.82	5.13	3.79
2	2.360	2.650	2.42	7.43	6.11
2 1/2	2.857	3.250	4.28	10.12	8.83
3	3.476	3.870	5.26	14.63	12.63
3 1/2	3.971	4.500	6.12	16.57	15.01
4	4.466	4.875	6.82	21.57	18.30

## Threaded Rod Data

Nominal Rod Dia. (in inches)	Root Area Thread (in inches) <sup>2</sup>	Max. Rec. Load/lbs.	
		650°F	750°F
1/4	.027	240	210
3/8	.068	730	572
1/2	.126	1350	1057
5/8	.202	2160	1692
3/4	.302	3230	2530
7/8	.419	4480	3508
1	.552	5900	4620
1 1/8	.693	7450	5830
1 1/4	.889	9500	7440
1 1/2	1.293	13800	10807
1 3/4	1.744	18600	14566
2	2.300	24600	19625
2 1/4	3.023	32300	25295
2 1/2	3.719	39800	31169



# TECHNICAL DATA

## Cast Iron Data

### SERVICE WEIGHT CAST IRON SOIL PIPE DATA (Bell & Spigot Type)

Nominal Pipe Size	O.D. of Cast Iron Pipe	Wall Thickness	Weight Per Foot (in lbs.)	
			Pipe	Water
2	2.25	.17	4.00	1.24
3	3.25	.17	6.00	2.88
4	4.25	.18	8.00	5.15
5	5.25	.18	10.40	8.14
6	6.25	.18	13.00	11.80
8	8.38	.23	20.00	21.34
10	10.50	.28	29.00	33.62
12	12.50	.28	38.00	48.51
15	15.62	.31	51.00	76.55

### EXTRA WEIGHT CAST IRON SOIL PIPE DATA (Bell & Spigot Type)

Nominal Pipe Size	O.D. of Cast Iron Pipe	Wall Thickness	Weight Per Foot (in lbs.)	
			Pipe	Water
2	2.38	.190	5.00	1.36
3	3.50	.250	9.00	3.06
4	4.50	.250	12.00	5.44
5	5.50	.250	15.00	8.51
6	6.50	.250	19.00	12.25
8	8.62	.310	30.00	21.78
10	10.75	.375	43.00	34.02
12	12.75	.375	54.00	48.99
15	15.88	.440	75.00	76.55

### NO-HUB CAST IRON SOIL PIPE DATA

Nominal Pipe Size	O.D. of Cast Iron Pipe	Wall Thickness	Weight Per Foot (in lbs.)	
			Pipe	Water
1½	1.90	.16	2.70	.85
2	2.35	.16	3.60	1.40
3	3.35	.16	5.20	3.12
4	4.38	.19	7.40	5.44
5	5.30	.19	9.60	8.24
6	6.30	.19	11.00	11.92
8	8.38	.23	18.00	21.34
10	10.50	.28	26.20	33.62
12	12.50	.28	35.50	48.51

## PHD Manufacturing, Inc. –

follows the guidelines of the Metal Framing Manufacturers Association in the manufacture and recommended use of strut systems. In all design applications using strut systems and accessories, proper engineering design practices should be applied and load limits observed. The following pages include helpful information to assist the user in the proper design of strut systems.

Appropriate beam and column loading information is provided with the dimensional tables accompanying each channel. In addition, the following discussion and tables are

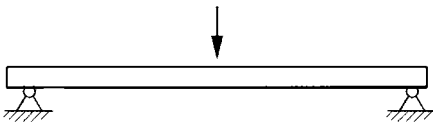
designed to assist in the proper selection and use of PHD strut products. Basic engineering information is provided to define the concepts needed to design a safe and economical strut installation.

## Design of Strut Systems

PHD struts are often installed to serve either as beams or columns in structural applications. A brief discussion of these types of structural elements and their safe design follows:

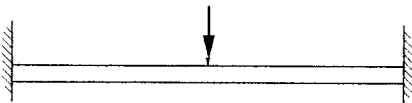
## BEAMS

Structural members installed in a horizontal attitude and subject to vertical and/or horizontal loads are known as beams. The method by which a beam is mounted affects the load-carrying capability of the beam. Common mounting methods include:



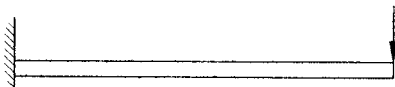
### Simple Beam –

A simple beam is one that is supported at both ends without being restricted from bending or flexing. Most beams are analyzed as simply supported beams, even though they are often rigidly fixed at their supports. PHD beam load data are based upon simple beam configurations unless otherwise noted.



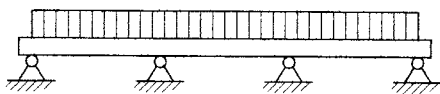
### Fixed End Beam –

A fixed end beam is supported at both ends in such a way that motion or bending of the beam is restricted. An example of a fixed end beam is a strut welded at both ends to a very rigid structure. The result is a beam capable of carrying greater loads, but subject to large bending moments at the supports.



### Cantilever Beam –

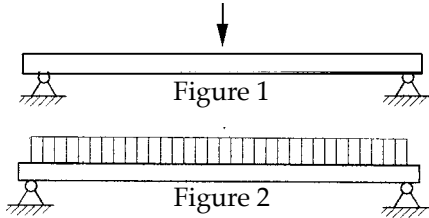
A cantilevered beam is one that is fixed at one end and completely unsupported at the other end.



### Continuous Beam –

A continuous beam is supported at three or more points along its length. Continuous beams act similarly to simple beams, particularly at the end spans. However, the counter-balancing effect of adjacent spans restricts movement at the support, much like a fixed beam.

## TYPES OF BEAM LOADING



### Beam Loading

Beams are loaded in several ways, as shown below.

#### Concentrated Load –

Also known as a point load, this type of load is applied at one point along the span of the beam. See Figure 1. A beam may have multiple concentrated loads along its span.

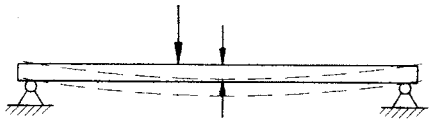
#### Uniform Load –

This is a load spread evenly over a length of the beam's span. See Figure 2. It may cover the entire span or only a portion.

#### Combined Load –

Concentrated loads and uniform loads may be carried simultaneously by a beam, arranged in any combination.

## BEAM DEFLECTION



### Deflection –

Deflection is the amount of displacement, or sag, experienced by a load-carrying beam. All loaded beams will deflect to a greater or lesser degree, depending upon:

- ▲ The size and placement of loads
- ▲ The beam material
- ▲ The manner of supporting the beam
- ▲ The stiffness of the beam

PHD provides deflection values for beams of various spans in the tables accompanying each channel shape. When determining the deflection of a strut, the rule of thumb observed by the industry is that a deflection of 1/240th of the beam's span is acceptable.

The following table of beam formulas contains factors to be applied when analyzing a strut/beam in various configurations. These factors account for the difference in deflection that will be experienced by beams mounted in various configurations and subject to various types of loads.

Also included in the tables of channel information are values for the Moment of Inertia (I) and Section Modulus (S) of the channel. These values are given for both the X-X and Y-Y axis of the channel. They are measures of the stiffness of the beam's cross-sectional shape, and are used to calculate deflection. Deflection decreases as I and S increase. The Modulus of Elasticity (E), listed below I and S, is a measure of the beam material's resistance to bending. Again, as E increases, deflection decreases.

## SAFETY FACTOR

### Safety Factor –

The design loads given for strut beam loads are based on a simple beam condition using allowable stress of 25,000 psi. This allowable stress results in a safety factor of 1.68. This is based upon a virgin steel minimum yield strength of 33,000 psi cold worked during rolling to an average yield stress of 42,000 psi.

Aluminum typically has an elastic modulus which is 1/3 that of steel even though they may have identical strength. As a result, the deflection of aluminum channel will be three times that of steel channel under equal loading. In areas where structures will be subject to general viewing, deflection can produce a displeasing effect. To the untrained eye, a sagging channel may appear to be a result of poor design or excessive loading. This is not usually the case. Many properly designed channel installations will show a noticeable deflection at their designed loads. In areas where cosmetics are not important, deflection should not be a factor. Designing an entire installation based on minimal deflection could result in an over designed structure. This translates into increased material and installation cost. Where cosmetics are important, it may be necessary to limit the deflection to an aesthetically pleasing amount. This "acceptable deflection" amount is typically given as a fraction of the span. 1/240 span deflection is typically the limit where the amount of deflection appears negligible. For example, a beam span of 240" would be allowed 1" (240/240) of deflection at the mid point. A 120" span would only be allowed 1/2" (120/240) of deflection. The maximum load for the channel must be limited in order to remain under these deflection requirements. The allowable load resulting in 1/240 span deflection is posted in the beam load chart for each channel size.

For even more stringent deflection requirements, an allowable load is listed in the beam load charts which results in 1/360 span deflection. This amount of deflection is sometimes used for beams in finished ceilings that are to be plastered.

## Bending Moments & Stresses –

When loads are placed on a beam, the effect is to flex the beam across its unsupported span. The measure of this effect is called the bending moment. Formulas for bending moments created by various load and beam support combinations are given in the following tables.

When the bending moment of a loaded beam is divided by the Section Modulus of the beam, the resulting value is called bending stress. It is this bending stress that is most commonly evaluated to determine whether a beam is strong enough for the loads it must support.

The maximum bending stress prescribed by structural codes is 25,000 psi, (172.37mPa), and this is the stress upon which PHD load figures are based.

Again, the method of supporting a beam affects the maximum bending moment of the beam. The following table gives modifying factors based upon types of beam supports. Users of PHD struts should take care to apply the proper load factor for the specific beam support configuration in order to determine the proper maximum load that the strut will safely support.

## BENDING MOMENTS & STRESSES

## Twisting & Lateral Bracing –

For long spans and when loads are apt to cause torsion on the beam, it is a good practice to brace the beam to prevent twisting or lateral bending. PHD offers various types of braces for this purpose.

Loading of strut on long spans can cause torsional stress, resulting in the tendency of the strut to twist or bend laterally. This phenomenon reduces the allowable beam loads as shown in the beam loading charts. It is recommended that long spans be supported in a manner to prevent twisting (fixed ends), and that the channel have adequate lateral bracing. Many typical strut applications provide this support and bracing inherently. Piping, tubing, cable trays, or conduits mounted to the strut with straps and clamps prevent twisting or lateral movement. If no such lateral support exists, contact the factory for loading recommendations.

## TWISTING & LATERAL BRACING

## Spot Welding –

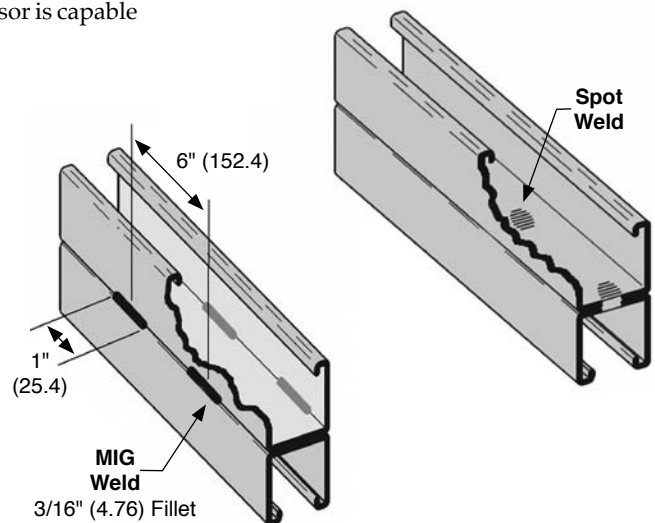
Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" (50.8) to 4" (101.6) apart continuously down the length of the channel. Consistency is maintained by the use of highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.

## MIG Welding –

MIG welded, more properly called gas metal arc welded (GMAW) combination channels and fittings, are produced when physical dimensions or certain combinations require a weld process other than automatic spot welding. The same quality control requirements are imposed on MIG welded and spot-welded products.

## WELDING



Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.

## COLUMNS

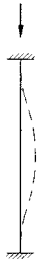


Figure 1

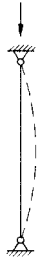


Figure 2

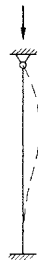


Figure 3



Figure 4

### Columns –

Structural members installed in a vertical attitude and subject to vertical loads are known as columns. The loads on a column have the effect of compressing the column and attempting to deflect the column laterally. As with beams, the method by which a column is mounted affects the load-carrying capability of the column. The effect of each method is quantified by the value “K”, given for each support condition shown below.

Loads on a column may be concentric (directly in line with the column’s vertical axis) or eccentric (offset horizontally from the vertical axis). PHD provides allowable column loads for concentric loading conditions. In addition, the tables accompanying the channels contain a value called the “radius of gyration”. This value can be used by a qualified structural engineer to analyze the effect of eccentric loads on strut columns.

Common mounting methods for columns include:

### Fixed Top, Fixed Bottom –

Both the top and bottom of the column are rigidly mounted in such a way that rotation and displacement are prevented. The value of “K” for this configuration is .65. See Figure 1.

### Pinned Top, Pinned Bottom –

Both the top and bottom of the column are mounted in such a way that rotation is permitted but displacement is prevented. The value of “K” for this configuration is 1.0. See Figure 2.

### Pinned Top, Fixed Bottom –

The top of the column is pinned to allow rotation, and the bottom of the column is rigidly mounted in such a way that rotation and displacement are prevented. This is a common method. And is the “standard” for which PHD allowable column loads are listed. The value of “K” for this configuration is .80. See Figure 3.

### Free Top, Fixed Bottom –

The bottom of the column is rigidly mounted. The top of the column is free to move laterally, but is restrained to prevent rotation. The value of “K” for this configuration is 1.2. See Figure 4.

As stated above, allowable column loads published in this catalog are based on the “Pinned Top, Fixed Bottom” mounting configuration, which has a “K” factor of .80. For any of the other mounting configurations, a qualified design professional can use the “K” values given to calculate the allowable column load.

## BOLT TORQUE

Bolt Torque							
Bolt Size	1/4	5/16	3/8	1/2	5/8	3/4	
Rec. Torque	ft-lbs	6	11	19	50	100	125
	N-m	(8)	(15)	(26)	(68)	(136)	(170)

### Bolt Torque –

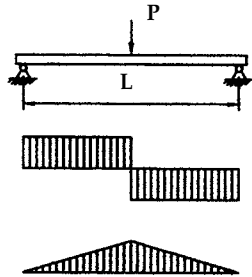
Bolt torque values are given to ensure the proper connection between PHD Metal Framing components. It is important to understand that there is a direct, but not necessarily consistent, relationship between bolt torque and tension in the bolt. Too much tension in the bolt can cause it to break or crush the component parts. Too little tension in the bolt can prevent the connection from developing its full load capacity. The torque values given have been developed over many years of experience and testing.

These are based on using a properly calibrated torque wrench with a clean dry (non-lubricated) PHD fitting, bolt and nut. A lubricated bolt or nut can cause extremely high tension in the connection and may lead to bolt failure. It must be noted that the accuracy of commercial torque wrenches varies widely and it is the responsibility of the installer to ensure that proper bolt torque has been achieved.



## BEAM DIAGRAMMS AND COMMON FORMULAS

### Simply Supported Beams

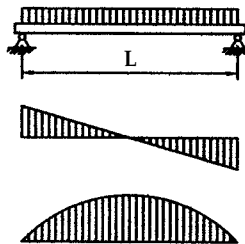


$$R = P/2$$

$$V_{MAX} = P/2$$

$$M_{MAX} = PL/4$$

$$\square_{MAX} = \frac{PL^3}{48EI}$$

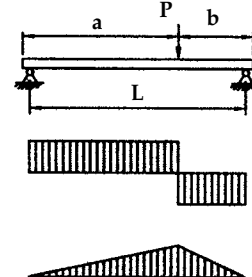


$$R = W/2$$

$$V_{MAX} = W/2$$

$$M_{MAX} = WL/8$$

$$\square_{MAX} = \frac{5WL^3}{384EI}$$



$$R_1 = Pb/L$$

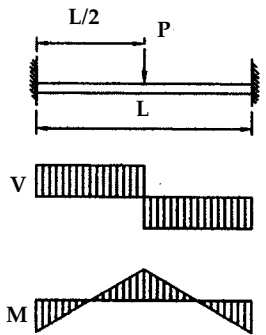
$$R_2 = Pa/L$$

$$V_{MAX} = Pa/L$$

$$M_{MAX} = Pab/L$$

$$\square_{MAX} = \frac{Pab}{27EI} (a+2b) \sqrt{3a(a+2b)}$$

### Fixed End Beams

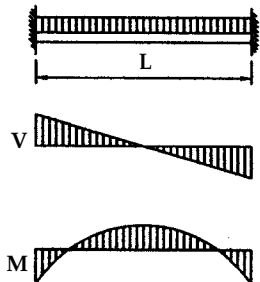


$$R = P/2$$

$$V_{MAX} = P/2$$

$$M_{MAX} = PL/8$$

$$\square_{MAX} = \frac{PL^3}{192EI}$$

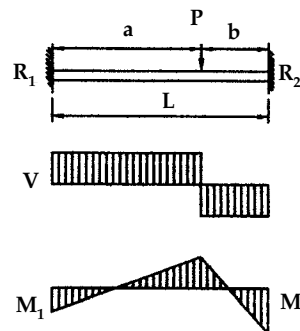


$$R = W/2$$

$$V_{MAX} = W/2$$

$$M_{MAX} = WL/12$$

$$\square_{MAX} = \frac{WL^3}{384EI}$$



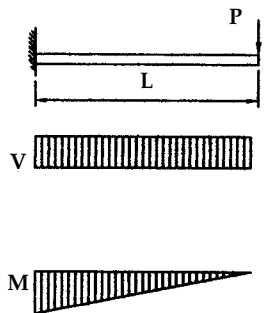
$$R_1 = \frac{Pb^2}{L^3} (3a+b)$$

$$R_2 = \frac{Pa^2}{L^3} (a+3b)$$

$$M_1 = \frac{Pab^2}{L^2}$$

$$M_2 = \frac{Pa^2b}{L^2}$$

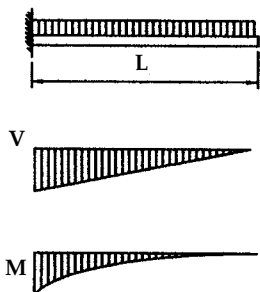
### Cantilever Beams



$$V_{MAX} = P$$

$$M_{MAX} = PL$$

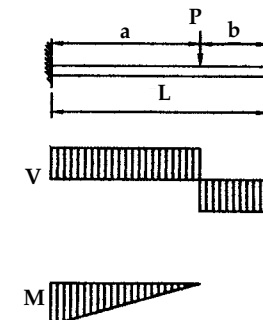
$$\square_{MAX} = \frac{PL^3}{3EI}$$



$$V_{MAX} = W$$

$$M_{MAX} = WL/2$$

$$\square_{MAX} = \frac{WL^3}{8EI}$$

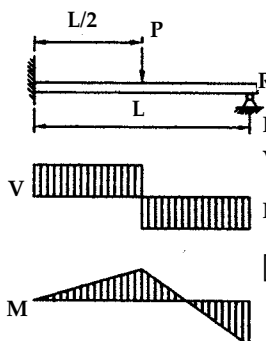


$$V_{MAX} = P$$

$$M_{MAX} = Pb$$

$$\square_{MAX} = \frac{Pb^2(3L-b)}{6EI}$$

### Beams with one end Fixed, one end Simply Supported

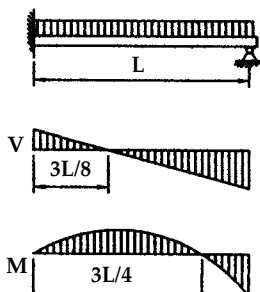


$$R_1 = 5P/16$$

$$V_{MAX} = 11P/16$$

$$M_{MAX} = \frac{3PL}{16}$$

$$\square_{MAX(at P)} = 0.447L$$

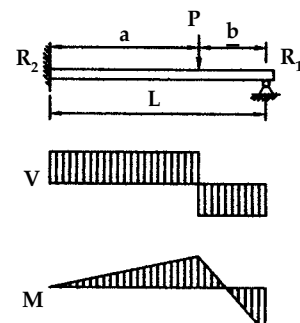


$$R_1 = 3W/8$$

$$V_{MAX} = 5W/8$$

$$M_{MAX} = WL/8$$

$$\square_{MAX} = \frac{WL^3}{185EI}$$



$$R_1 = \frac{Pb^2}{2L^3} (a+2L)$$




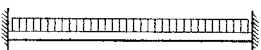
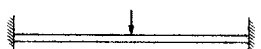
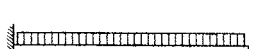


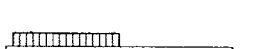


$$R_2 = \frac{Pa}{2L^3} (3L^2 - a^2)$$

$$M_{(at P)} = R_1 a$$

$$M_{(at R_2)} = \frac{Pab}{2L^3} (a+L)$$

## Beam Load and Deflection Conversion Factors –

The allowable beam loads listed for various spans of each channel assume that the beam is a simply supported, single-span beam. Although this is the most common condition, it is not always true. For other support conditions, multiply the listed allowable load by the factors in this table to obtain the proper load for the given mounting type.

Load & Support Configuration	Diagram	Load Factor	Deflection Factor
1) Simply Supported Beam, Uniform Load		1.00	1.00
2) Simply Supported Beam, Concentrated Load at Mid-span		.50	.80
3) Simply Supported Beam, Two equal Concentrated Loads at 1/4 Points		1.00	1.10
4) Fixed End Beam, Uniform Load		1.50	.30
5) Fixed End Beam, Concentrated Load at Mid-Span		1.00	.40
6) Cantilever Beam, Uniform Load		.25	2.40
7) Cantilever Beam, Concentrated Load at End		.12	3.20
8) Continuous Beam, Two Equal Spans, Uniform Load Both Spans		1.00	.42
9) Continuous Beam, Two Equal Spans, Uniform Load on One Span		1.30	.92
10) Continuous Beam, Two Equal Spans, Concentrated Load at Mid-span of Each		.62	.71
11) Continuous Beam, Two Equal Spans, Concentrated Load at Mid-Span of One.		.66	.48

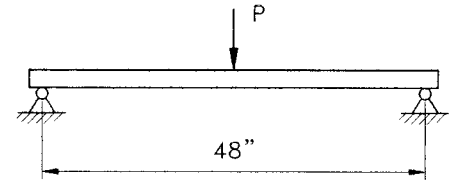
## SAMPLE PROBLEMS

### Problem 1

The Beam at right is a PHD 1001 Channel, simply supported. What is the maximum allowable load P? How much will the beam deflect under that load?

### Answer

From the table of Beam and Column Loads for 1001 Channel, the load for this span is 851 lbs. and the deflection is .22". From the table of load factors above, the load conversion factor is .50 and the deflection factor is .80. Therefore the maximum load  $P = 851 \times .50 = 425$  lbs., and the deflection is  $.22" \times .80 = .176"$ .

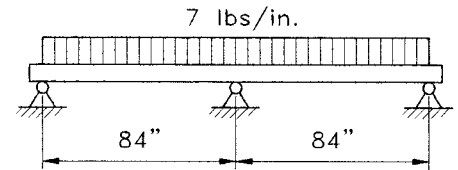


### Problem 2

A PHD 1001 Channel is supported at 3 points as shown, making it a continuous beam with 2 spans. The required loading condition is a uniform load of 7 lbs. per inch over both spans. Is the Channel able to safely support this load?

### Answer

The entire load on one span of this beam is  $7 \text{ lbs./in} \times 84" = 588$  lbs. The allowable load is 486, and the load factor is 1.00, so the allowable load remains 486 lbs. Therefore the beam is not acceptable, since the required load exceeds the allowable load. A different PHD channel must be used, or the load must be decreased.



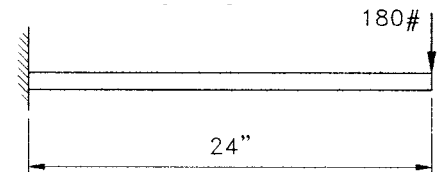
### Problem 3

The cantilever beam shown at right carries a concentrated load of 180 lbs. at the end of the 24" PHD 1001 Channel. Is the load acceptable? Calculate the maximum bending moment and deflection.

### Answer

The maximum load is 1702 lbs., and the load factor is .12, so the maximum load is  $1702 \times .12 = 204$  lbs. The desired 180 lb. load is within the allowable.

From the table of beam formulas, the maximum bending moment for this support condition is  $M = PL$ . For the beam show, then,  $M = 180 \text{ lb.} \times 24" = 4320$  inch-pounds. Deflection for this cantilever beam  $= PL^3/3EI$ .  $E =$  modulus of elasticity, which is  $30 \times 10^6$  for steel.  $I$  is the Moment of Inertia, listed in the channel information as  $.189 \text{ in}^4$ . The deflection then, is found by the equation  $180(24)^3/3(30 \times 10^6)(.189) = .146"$ .

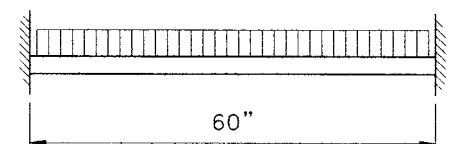


### Problem 4

Determine load and deflection of a PHD 1001 Channel fixed at both ends and carrying a uniform load over its entire 60" span.

### Answer

Maximum load from the chart is 681 lbs., and the load factor is 1.50, so the load for this beam is  $681 \times 1.50 = 1021.5$  lbs. Similarly, the deflection for this beam is .35" and the deflection factor is .30, so the deflection  $= .35 \times .30 = .105"$ .

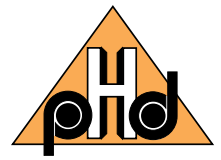




# TECHNICAL DATA

## CONVERSION FACTORS FOR UNITS OF MEASUREMENT

To Convert From	To	Multiply By	To Convert From	To	Multiply By
<b>Length</b>					
Inch	Millimeter	25.4	Millimeter	Inch	0.03937
Foot	Meter	0.3048	Meter	Foot	3.28084
Yard	Meter	0.9144	Meter	Yard	1.09361
Mile	Kilometer	1.6093	Kilometer	Mile	0.62137
<b>Area</b>					
Square Inch	Sq. Millimeter	645.16	Sq. Millimeter	Square Inch	0.001550
Square Foot	Sq. Meter	0.0929	Sq. Meter	Square Foot	10.7639
Square Yard	Sq. Meter	0.8361	Sq. Meter	Square Yard	1.19599
Square Mile	Sq. Kilometer	2.5899	Sq. Kilometer	Square Mile	0.3861
<b>Volume</b>					
Gallon	Liter	3.7854	Liter	Gallon	0.26417
Quart	Liter	0.9463	Liter	Quart	1.05669
Cubic Inch	Cubic Millimeter	16387.06	Cubic Millimeter	Cubic Inch	0.000061
Cubic Foot	Cubic Meter	0.0283	Cubic Meter	Cubic Foot	35.31466
Cubic Yard	Cubic Meter	0.76455	Cubic Meter	Cubic Yard	1.30795
<b>Mass</b>					
Ounce	Gram	28.3495	Gram	Ounce	0.035274
Pound	Kilogram	0.45359	Kilogram	Pound	2.20462
Short Ton	Kilogram	907.185	Kilogram	Short Ton	0.0011
<b>Force</b>					
Ounce-Force	Newton	0.278014	Newton	Ounce-Force	3.59694
Pound-Force	Newton	4.44822	Newton	Pound-Force	0.22481
<b>Pressure</b>					
Pound-Force per Square Inch	Kilopascal	6.894757	Kilopascal	Pound-Force per Square Inch	0.145038
Foot of Water (39.2°F)	Kilopascal	2.98898	Kilopascal	Ft. of Water	0.334562
Inch of Mercury (32°F)	Kilopascal	3.38638	Kilopascal	In. of Mercury	0.295301
<b>Bending Moment</b>					
Pound-Force-Inch	Newton-Meter	0.112985	Newton-Meter	Pound-Force-Inch	8.85073
Pound-Force-Foot	Newton-Meter	1.355818	Newton-Meter	Pound-Force-Foot	0.73756
<b>Energy, Work, Heat</b>					
Foot-Pound-Force	Joule	1.355818	Joule	Foot-Pound-Force	0.73756
British Thermal Unit (BTU)	Joule	1055.056	Joule	BTU	0.000948
Calorie	Joule	4.1868	Joule	Calorie	0.23884
Kilowatt Hour	Joule	3,600,000	Joule	Kilowatt Hour	2.78 <sup>-7</sup>
<b>Power</b>					
Foot-Pound-Force Per Second	Watt	1.355818	Watt	Foot-Pound-Force Per Second	0.73756
British Thermal Unit Per Hour	Watt	0.29307	Watt	BTU/Hr	3.41214
Horsepower	Kilowatt	0.7457	Kilowatt	Horsepower	1.341022
<b>Temperature</b>					
Degree Fahrenheit	Degree Celsius	(°F-32)/1.8	Degree Celsius	Degree Fahrenheit	1.8x°C + 32



## MATERIAL SPECIFICATIONS

### CHANNEL

#### **Pre-Galvanized**

ASTM A-653 Grade 33 Steel Sheet Zinc Coated by Hot Dip Process

#### **Plain, Powder Coated, or Hot Dip Galvanized**

ASTM A-1011 / A-1011M Grade 33, Hot Rolled Carbon Steel Sheet and Strip, Structural Quality

#### **Stainless Steel**

ASTM A-240, Type 304, and ASTM A-240, Type 316

#### **Aluminum**

Aluminum alloy 6005-T5

### PIPE CLAMPS

#### **Steel**

ASTM A653 Structural Steel, Grade 33  
ASTM A1011 Structural Steel, Grade 33

#### **Stainless Steel**

ASTM A-240, Type 304, and ASTM A-240, Type 316

### ACCESSORIES

#### **Steel**

1/4" thickness and below ASTM A1011 Structural Steel, Grade 33  
3/8" thickness and above ASTM A-36, Structural Grade.

#### **Stainless Steel**

ASTM A-240, Type 304, and ASTM A-240 Type 316

#### **Aluminum**

Aluminum alloy 6005-T5 Structural Grade

### CHANNEL NUTS

#### **Steel**

ASTM A-576, Grade M1015, Case Hardened to RC25 min.

#### **Stainless Steel**

ASTM A-240, Type 304, and ASTM A-240, Type 316,  
Sintered Nuts: MPIF Type 316 (Domestic only)

#### **Aluminum**

Aluminum alloy 5052-H32

## ALUMINUM

To determine the approximate load data for strut, multiply the load data found in this catalog by a factor of 0.38.

The high strength to weight ratio of channel made of aluminum greatly reduces the overall cost of installation through ease of handling and field cutting.

Aluminum owes its excellent corrosion resistance to its ability to form an aluminum oxide film that immediately reforms when scratched or cut. In most outdoor applications, aluminum has excellent resistance to "weathering". The resistance to chemicals, indoor or outdoor, can best be determined by tests conducted by the user with exposure to the specific conditions for which it is intended.

## STAINLESS STEEL

Because of its corrosion resistance, stainless steel is recommended for applications where corrosion is a problem. Load data for strut is the same as the load data in this catalog.

Stainless steel channel is available in AISI Type 304 or 316 material. Both are non-magnetic and belong to the austenitic stainless steels group, based on alloy content and crystallographic structure. Like carbon steel, stainless steel exhibits increased strength when cold worked by roll-forming.

Several conditions make the use of stainless steel ideal. These include reducing long term maintenance costs, high ambient temperatures, appearance, and stable structural properties such as yield strength, and high creep strength.

Type 304 resists most organic chemicals, dyestuffs, and a wide variety of inorganic chemicals at elevated or cryogenic temperatures. Type 316 contains slightly more nickel and adds molybdenum to give it better corrosion resistance in chloride and sulfuric acid environments.

## CARBON STEEL

Channels made from high-quality carbon steel are continuously roll formed to precise dimensions. By cold working the steel mechanical properties are increased, allowing lightweight structures to carry the required load. Corrosion resistance of carbon steel varies widely with coating and alloy. See "Finishes" for more detailed information.



# FINISHES

## ZINC COATING

PHD offers 3 basic forms of zinc coating on its products:

- 1) **Electro-Galvanized** (Electro-Plated Zinc)
- 2) **Pre-Galvanized**
- 3) **Hot-Dip Galvanized**

*Note: The corrosion resistance of zinc is based on its thickness, the environment and the coating process used. The acceptability of galvanized coatings at temperatures above 450° is at the discretion of the end user.*

For best results, a zinc rich paint should be applied to field cuts. The zinc rich paint will provide immediate protection for these areas and eliminate the short time period for galvanic action to "heal" the damaged coating.

### Zinc offers two types of protection:

- **Barrier:** The zinc coating protects the steel substrate from direct contact with the environment
- **Sacrificial:** The zinc coating will protect scratches, cut edges, etc. through an anodic sacrificial process.

### ELECTRO-GALVANIZED (ASTM B633 SC1 & SC3) "EG"

This type of coating is recommended for use indoors in relatively dry areas. The steel is submersed in a bath of zinc salts, through the process of electrolysis, a coating of pure zinc adheres to the steel with a molecular bond. A maximum of 0.5 mils of zinc per side can be applied using this method.

SC1 (Mild) is the standard finish thickness which has a Zinc coating of 0.2 mils per side. SC3 (Severe) has a Zinc coating of 0.5 mils per side.

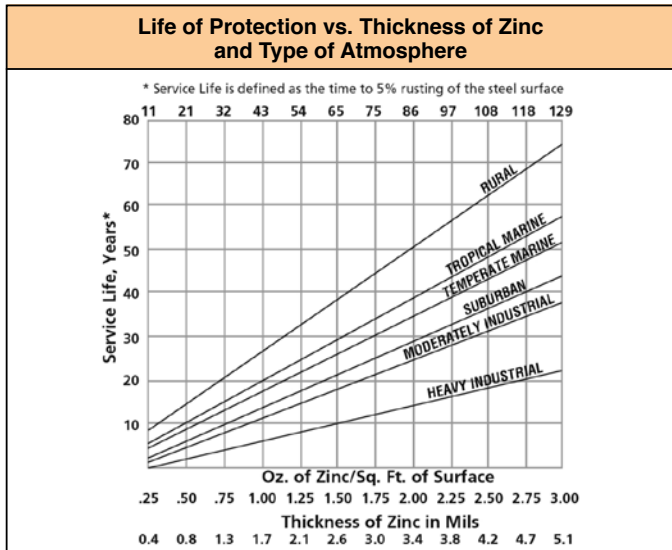
### PRE-GALVANIZED (ASTM A653 COATING G90) "PG"

This type of coating is suitable for extended exposure in dry or mildly corrosive atmospheres but not generally recommended for use outdoors in industrial environments. Also known as "mill galvanized" or "hot-dipped mill galvanized", pre-galvanized zinc coatings are produced by rolling the steel coils or sheets through molten zinc, at the steel mill, the material is then cut or slit to size. Zinc near the uncoated edges or weld areas becomes a sacrificial anode which protects the bare areas.

The pre-galvanized material conforms to ASTM A653 with a G90 zinc coating. The zinc thickness per side is nominally 0.75 mils thick or 0.45 oz/sq. ft.

### HOT-DIP GALVANIZED (ASTM A123) "HDG"

Recommended for prolonged outdoor exposure and will usually protect steel in most atmospheric environments. After fabrication the part is immersed in a bath of molten zinc. A metallurgical bond is formed resulting in a zinc coating that coats all surfaces including edges. Please note that some items cannot be hot-dipped galvanized due to design, tolerances, or threaded components. Check with the PHD factory or your local representative when questionable. Threaded components on hot dipped galvanized products will be electro-plated.



The hot-dip galvanized coating is typically 2.6 mils or 1.5 oz/sq. ft. per side.

As shown in the graph at left, when the zinc coating is double, the service life is double under most conditions.

Comparison of Zinc Finishing	
Finish	Zinc Thickness (mils)
Hot-Dip Galvanized	2.6
Pre-Galvanized	0.75
Electro-Galvanized (SC1)	0.2
Electro-Galvanized (SC3)	0.5

# FINISHES



Plain finish designation means that the channel retains the oiled surface applied to the raw steel during the rolling process. The fittings have the original oiled surface of the bar stock material.

**PLAIN "PL"**

PHD offers a polyester powder coating that utilizes powder material conforming to ASTM D3451. It is applied by means of an electrostatic spray at ambient temperature.

**POWDER COATING  
"PTD"**

PVC coating helps reduce noise and protect the pipe or tubing from the metal surface of the hanger. Corrosion resistance protection is minimal.

**PVC COATING "PVC"**

Designed for use with copper tubing. This coating provides a better level of corrosion resistance than the traditional copper plated finish. It also acts as a protective barrier, avoiding contact between dissimilar metals. The copper color epoxy powder is applied by an electrostatic method, and the coated parts are baked at 180 degrees for 20 minutes.

**COPPER COLOR  
EPOXY FINISH  
"CCEF"**



## CHANNEL GREEN QUALITY: POLYESTER

### Powder Properties

Test Method	Powder Properties	Tolerances
ASTM D3451 (18.30)	Specific Gravity	1.33 ± 0.03
ASTM D3451 (18.30)	Theoretical Coverage	144.58 ± 4.0 FT <sup>2</sup> /Lb/Mil.
ASTM D3451 (13)	Volatile Content Storage	Max. 2.5%
ASTM D3451 (13)	Temperature Max	80°F

### Coating Properties

All tests performed on Substrate 0.032 CRS  
Pretreatment Bonderite 1000

Test Method	Coating Properties	Tolerances/ Specifications
ASTM D523	Gloss 20°/60°	70-80
ASTM D2454	Over Bake Resistance Time	100%
ASTM D3363	Pencil Hardness	H - 2H
ASTM D2794 (Modified)	Direct Impact (Gardner)	80 in. Lbs.
ASTM D2794 (Modified)	Reverse Impact (Gardner)	80 in. Lbs.
ASTM D3359	Adhesion (Cross Hatch)	Pass No Adhesion Loss
ASTM D522	Flexibility (Mandrel)	<sup>1</sup> / <sub>8</sub> Bend No Fracture
ASTM B117	Salt Spray	1000 Hrs.
ASTM D2247	Humidity	500 Hrs.

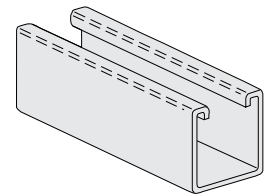
### Application

Test Method	Application	Cure Schedule
Electrostatic Spray	Ambient Temperature	15' @ 190°C (375°F) Recommend Minimum Film Thickness 1.5



## Selection Chart

Figure Number	Width	Height	Material Size	See Page Number
1001-1042	1-5/8	1-5/8	12 Ga.	26
1101-1142	1-5/8	1-5/8	14 Ga.	28
1201-1242	1-5/8	13/16	12 Ga.	30
1301-1342	1-5/8	13/16	14 Ga.	32
1401-1442	1-5/8	1	12 Ga.	34
1501-1542	1-5/8	3-1/4	12 Ga.	36
1601-1642	1-5/8	2-7/16	12 Ga.	38
1701-1742	1-5/8	1-3/8	12 Ga.	40



### Channel

PHD's metal framing channel is cold formed on our modern rolling mills from 12 Ga., 14 Ga., and 16 Ga., low carbon steel strips. A continuous slot with interlocking lips provides the ability to make attachments at any point.

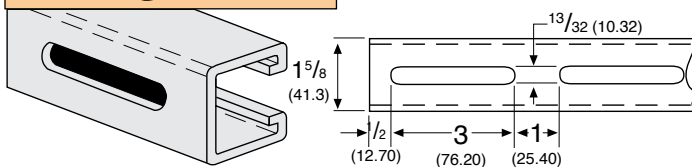
### Lengths

Standard lengths are 10' (3.05m) and 20' (6.09m) with length tolerance of  $\pm 1/8"$  ( $\pm 3.2\text{mm}$ ). Custom lengths are available upon request.

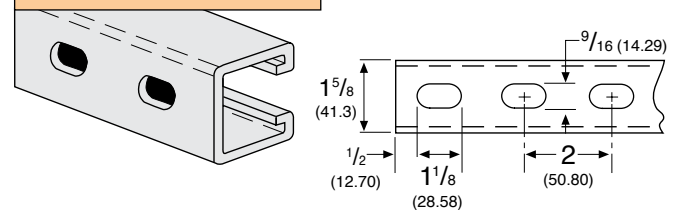
### Design Load (Steel & Stainless Steel)

The design loads given for strut beam loads are based on a simple beam condition using an allowable stress of 25,000 psi (172.37mPa). This allowable stress results in a safety factor of 1.68. This is based upon virgin steel minimum yield strength of 33,000 psi (227.53mPa) cold worked during rolling to an average yield stress of 42,000 psi (289.58mPa). For aluminum channel loading multiple steel loading by a factor of 0.38.

### Long Slots

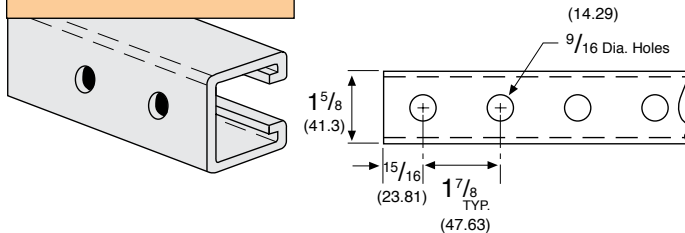


### Slots

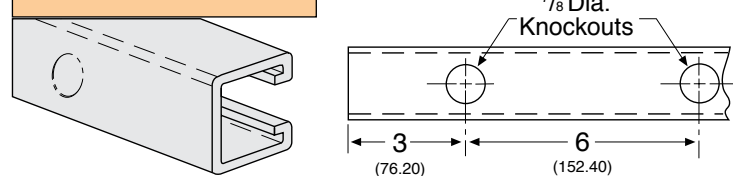


PHD's slotted series of channels offer full flexibility. A variety of pre-punched slot patterns eliminate the need for precise field measuring for hole locations. Slots offer wide adjustments in the alignment and bolt sizing.

### Holes



### Knockouts



A variety of pre-punched 9/16" (14.3mm) diameter hole patterns are available in PHD channels. These hole patterns provide an economical alternative to costly field drilling required for many applications.

PHD Channels are furnished with 7/8" (22.2mm) knockouts on 6" (152 mm) centers, allowing for perfect fixture alignment on spans up to 20' (6.09m).

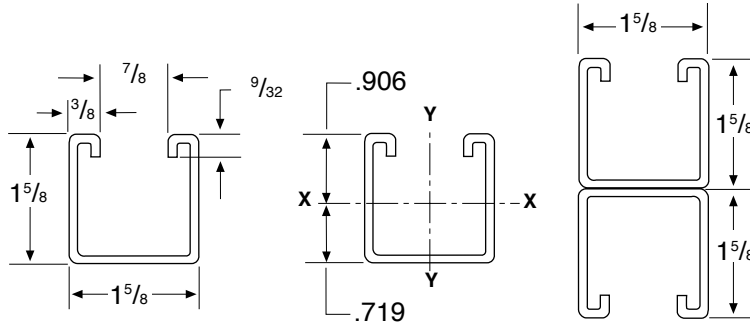
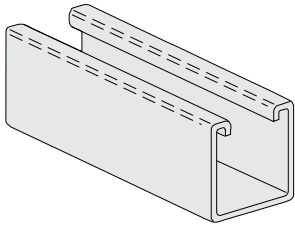
Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.



# CHANNEL

**1001-1042**

**1<sup>5</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>" X 12 Gauge**

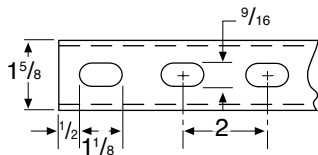
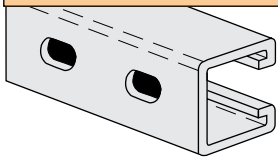


**ORDERING:** Specify Figure No., finish and number of feet.

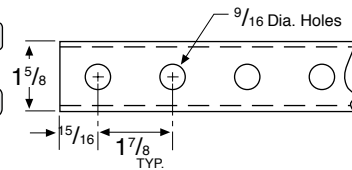
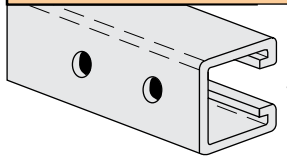
Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1001	1002	No Openings	1.77	500	500
1001A	1002A	Welded Back to Back	3.54	300	300
1011	1012	With 1 <sup>1</sup> / <sub>8</sub> " X 9 <sup>9</sup> / <sub>16</sub> " slots on 2" centers	1.70	500	500
1011A	1012A	Welded Back to Back	3.40	300	300
1021	1022	With 9 <sup>9</sup> / <sub>16</sub> " dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	1.70	500	500
1021A	1022A	Welded Back to Back	3.40	300	300
1031	1032	With 3" slots	1.68	500	500
1041	1042	With 7 <sup>7</sup> / <sub>8</sub> " Knockouts on 6" centers	1.77	500	500

Available in aluminum and stainless steel. Price on request. To order aluminum, add suffix AL to fig. number. To order stainless steel, specify 304 or 316 and add suffix SS to fig. number.

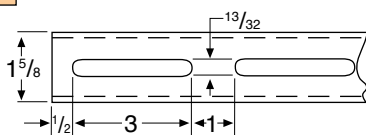
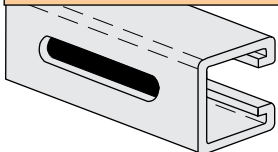
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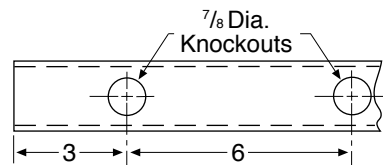
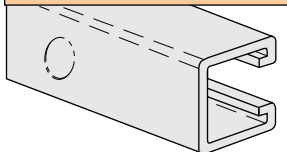
**1021-1022**



**1031-1032**



**1041-1042**



## Elements of Selection

**1001-1042**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1001	.561	.189	.209	.580	.239	.294	.653
1001A	1.122	.958	.589	.924	.478	.588	.653

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1001	12"	10454	2610	.01	2610
1001A		21625	2610*	.01	2610*
1001	18"	9950	2269	.03	2269
1001A		21433	2610*	.01	2610*
1001	24"	9311	1702	.06	1702
1001A		21164	2610*	.02	2610*
1001	30"	8582	1361	.09	1361
1001A		20819	2610*	.03	2610*
1001	36"	7801	1135	.13	1135
1001A		20397	2610*	.06	2610*
1001	42"	6998	972	.17	972
1001A		19898	2610*	.09	2610*
1001	48"	6193	851	.22	758
1001A		19322	2405	.13	2405
1001	54"	5392	756	.28	599
1001A		18669	2138	.16	2138
1001	60"	4718	681	.35	485
1001A		17940	1924	.20	1924
1001	66"	4202	619	.42	401
1001A		17134	1749	.24	1749
1001	72"	3791	567	.51	337
1001A		16251	1603	.28	1603
1001	84"	3176	486	.69	248
1001A		14255	1374	.38	1255
1001	96"	2728	425	.90	190
1001A		11951	1202	.50	961
1001	108"	2381	378	1.13	150
1001A		9524	1069	.63	759
1001	120"	2101	340	1.40	121
1001A		7715	962	.78	615

For Fabricated Channels, reduce beam load values as follows:

- 1011 & 1012    15%
- 1021 & 1022    10%
- 1031 & 1032    30%
- 1041 & 1042    5%

### TECHNICAL DATA

#### SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" to 4" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.

### Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

### Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.



# CHANNEL

**1101-1142**

## 1<sup>5</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>" X 14 Gauge

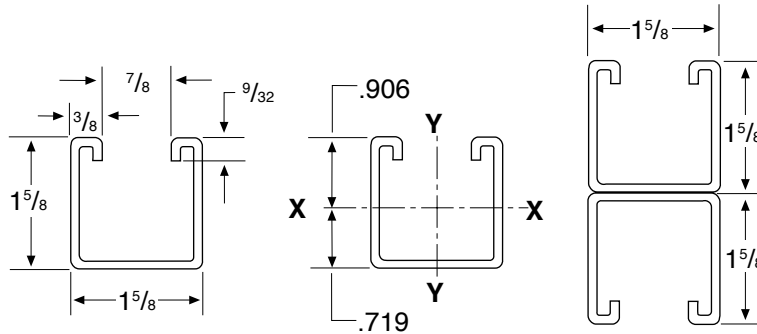
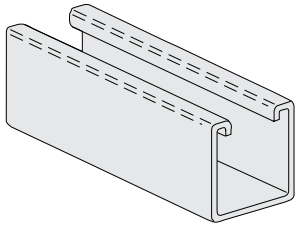
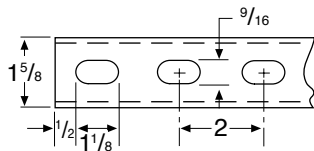
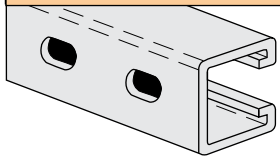


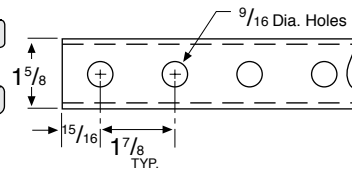
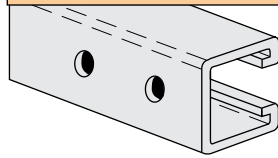
Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1101	1102	No Openings	1.30	500	500
1101A	1102A	Welded Back to Back	2.60	300	300
1111	1112	With 1 <sup>1</sup> / <sub>8</sub> " X 9/16" slots on 2" centers	1.28	500	500
1111A	1112A	Welded Back to Back	2.56	300	300
1121	1122	With 9/16" dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	1.30	500	500
1121A	1122A	Welded Back to Back	2.74	300	300
1131	1132	With 3" slots	1.29	500	500
1141	1142	With 7/8" Knockouts on 6" centers	1.30	500	500

**ORDERING:**  
Specify Figure No.,  
finish and number  
of feet.

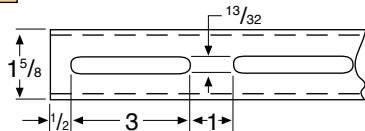
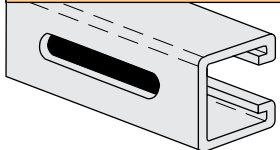
**1111-1112**



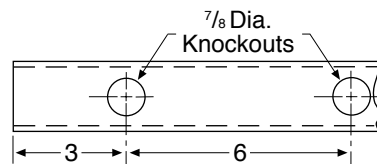
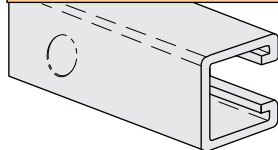
**1121-1122**



**1131-1132**



**1141-1142**



## Elements of Selection

**1101-1142**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1101	.417	.149	.166	.597	.183	.225	.662
1101A	.834	.741	.456	.942	.366	.450	.662

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1101	12"	6441	1750	.01	1750
1101A		13212	1750*	.01	1750*
1101	24"	5874	1379	.06	1379
1101A		12993	1750*	.01	1750*
1101	36"	5038	919	.13	919
1101A		12627	1750*	.05	1750*
1101	48"	4043	689	.23	607
1101A		12115	1750*	.12	1750*
1101	60"	3008	551	.36	389
1101A		11456	1518	.20	1518
1101	72"	2324	460	.51	270
1101A		10651	1265	.28	1265
1101	84"	1898	394	.70	198
1101A		9700	1084	.38	990
1101	96"	1608	345	.91	152
1101A		8602	949	.50	758
1101	108"	1397	306	1.15	120
1101A		7358	843	.63	599
1101	120"	1236	276	1.42	97
1101A		6024	759	.78	485

### Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

### Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.

For Fabricated Channels, reduce beam load values as follows:

- 1111 & 1112    15%
- 1121 & 1122    10%
- 1131 & 1132    30%
- 1141 & 1142    5%

### TECHNICAL DATA

#### SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" to 4" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

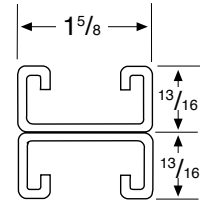
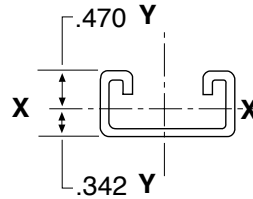
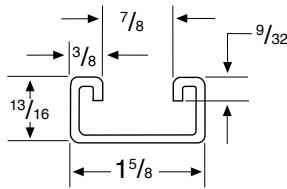
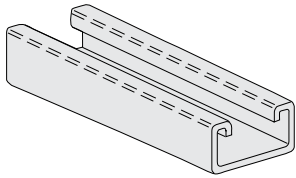
Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.



# CHANNEL

**1201-1242**

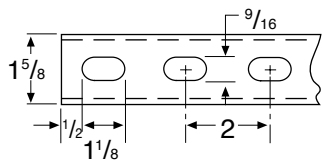
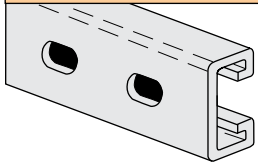
## 1<sup>5</sup>/<sub>8</sub>" X 1<sup>3</sup>/<sub>16</sub>" X 12 Gauge



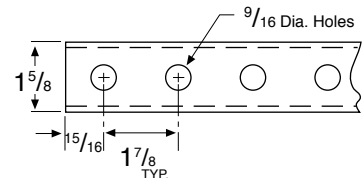
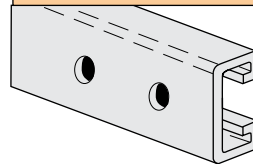
**ORDERING:**  
Specify Figure No.,  
finish and number  
of feet.

Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1201	1202	No Openings	1.22	500	1000
1201A	1202A	Welded Back to Back	2.52	500	500
1211	1212	With 1 <sup>1</sup> / <sub>8</sub> " X 9 <sup>9</sup> / <sub>16</sub> " slots on 2" centers	1.15	500	1000
1211A	1212A	Welded Back to Back	2.36	500	500
1221	1222	With 9 <sup>9</sup> / <sub>16</sub> " dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	1.16	500	1000
1221A	1222A	Welded Back to Back	2.40	500	500
1231	1232	With 3" slots	1.15	500	1000
1241	1242	With 7 <sup>7</sup> / <sub>8</sub> " Knockouts on 6" centers	1.22	500	1000

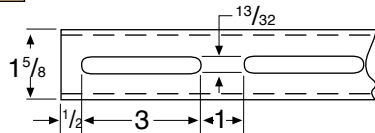
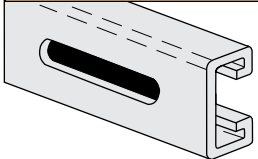
**1211-1212**



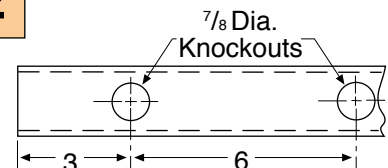
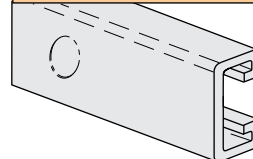
**1221-1222**



**1231-1232**



**1241-1242**



## Elements of Selection

**1201-1242**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1201	.376	.033	.068	.297	.115	.142	.554
1201A	.752	.148	.182	.444	.230	.284	.554

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1201	12"	8407	1079	.02	1079
1201A		19160	1270*	.01	1270*
1201	24"	7519	539	.10	506
1201A		17444	1270*	.05	1270*
1201	36"	5397	360	.24	225
1201A		15275	1013	.14	1013
1201	48"	3178	270	.43	126
1201A		12692	759	.25	607
1201	60"	2034	216	.67	81
1201A		9683	608	.39	388
1201	72"	-	180	.96	56
1201A		6780	506	.56	270
1201	84"	-	154	1.31	41
1201A		4981	434	.77	198
1201	96"	-	135	1.71	32
1201A		3814	380	1.00	152
1201	108"	-	120	2.16	25
1201A		3013	338	1.27	120
1201	120"	-	108	2.67	20
1201A		-	304	1.56	97

For Fabricated Channels, reduce beam load values as follows:

- 1211 & 1212    15%
- 1221 & 1222    10%
- 1231 & 1232    30%
- 1241 & 1242    5%

### TECHNICAL DATA

#### SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" to 4" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.

### Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

### Column Loads

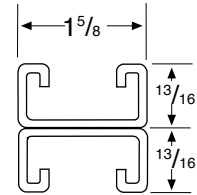
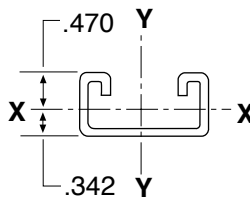
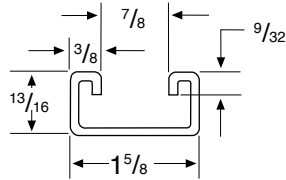
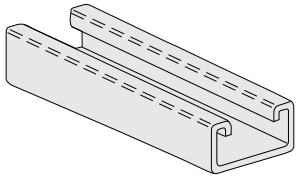
Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.



# CHANNEL

**1301-1342**

**1<sup>5</sup>/<sub>8</sub>" X 1<sup>3</sup>/<sub>16</sub>" X 14 Gauge**

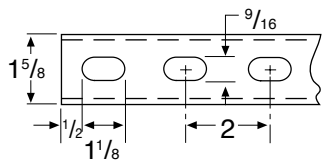
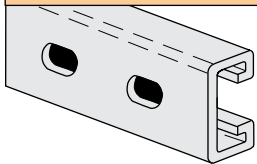


**ORDERING:**  
Specify Figure No.,  
finish and number  
of feet.

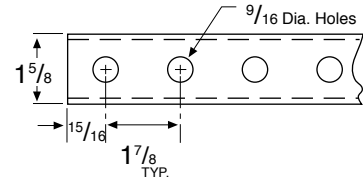
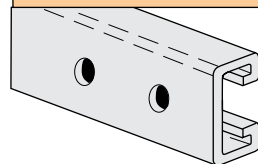
Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1301	1302	No Openings	.93	500	1000
1301A	1302A	Welded Back to Back	1.86	500	500
1311	1312	With 1 <sup>1</sup> / <sub>8</sub> " X 9 <sup>9</sup> / <sub>16</sub> " slots on 2" centers	.86	500	1000
1311A	1312A	Welded Back to Back	1.72	500	500
1321	1322	With 9 <sup>9</sup> / <sub>16</sub> " dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	.88	500	1000
1321A	1322A	Welded Back to Back	1.92	500	500
1331	1332	With 3" slots	.87	500	1000
1341	1342	With 7 <sup>7</sup> / <sub>8</sub> " Knockouts on 6" centers	.93	500	1000

Available in aluminum and stainless steel. Price on request. To order aluminum, add suffix AL to fig. number. To order stainless steel, specify 304 or 316 and add suffix SS to fig. number.

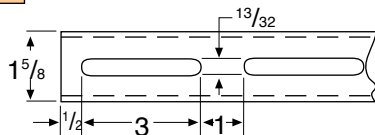
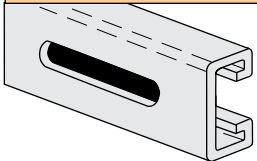
**1311-1312**



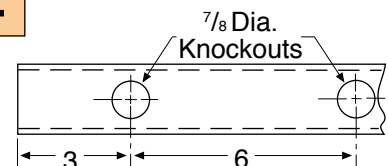
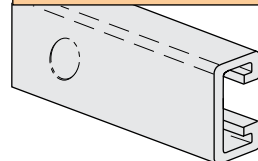
**1321-1322**



**1331-1332**



**1341-1342**





## Elements of Selection

**1301-1342**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1301	.295	.027	.056	.302	.110	.135	.610
1301A	.590	.122	.150	.455	.220	.270	.610

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1301	12"	6186	870	.03	870
1301A		12763	870*	.01	870*
1301	24"	5464	465	.11	430
1301A		12135	870*	.04	870*
1301	36"	4300	310	.24	191
1301A		11087	832	.14	832
1301	48"	2703	233	.43	108
1301A		9620	624	.25	499
1301	60"	1730	186	.68	69
1301A		7734	499	.39	319
1301	72"	1201	155	.97	48
1301A		5571	416	.56	222
1301	84"	-	133	1.32	35
1301A		4093	357	.76	163
1301	96"	-	116	1.73	27
1301A		3134	312	1.00	125
1301	108"	-	103	2.19	21
1301A		2476	277	1.27	98
1301	120"	-	93	2.70	17
1301A		-	250	1.56	80

For Fabricated Channels, reduce beam load values as follows:

- 1311 & 1312 15%
- 1321 & 1322 10%
- 1331 & 1332 30%
- 1341 & 1342 5%

### TECHNICAL DATA

#### SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" to 4" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.

### Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

### Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.



# CHANNEL

**1401-1442**

## 1<sup>5</sup>/<sub>8</sub>" X 1" X 12 Gauge

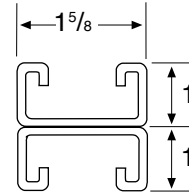
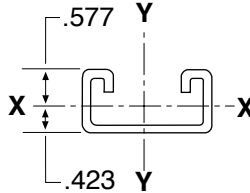
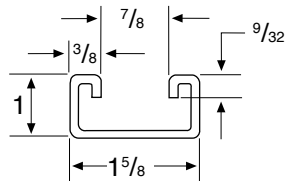
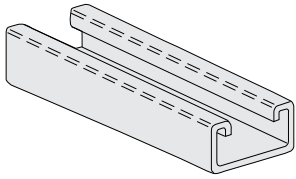
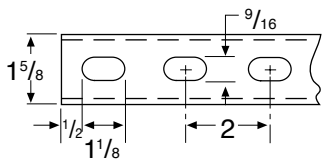
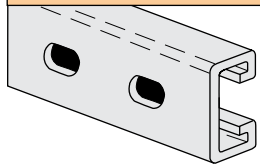


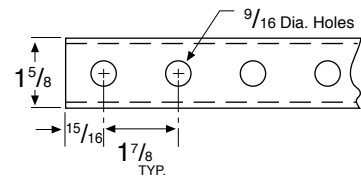
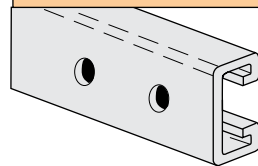
Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1401	1402	No Openings	1.38	500	1000
1401A	1402A	Welded Back to Back	2.88	500	400
1411	1412	With 1 <sup>1</sup> / <sub>8</sub> " X <sup>9</sup> / <sub>16</sub> " slots on 2" centers	1.34	500	1000
1411A	1412A	Welded Back to Back	2.72	500	400
1421	1422	With <sup>9</sup> / <sub>16</sub> " dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	1.39	500	1000
1421A	1422A	Welded Back to Back	2.78	500	400
1431	1432	With 3" slots	1.31	500	1000
1441	1442	With <sup>7</sup> / <sub>8</sub> " Knockouts on 6" centers	1.38	500	1000

**ORDERING:**  
Specify Figure No.,  
finish and number  
of feet.

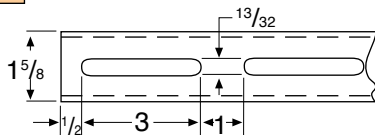
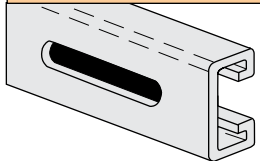
**1411-1412**



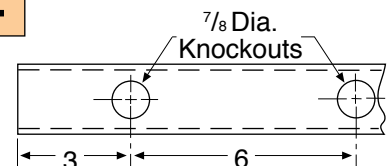
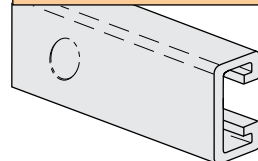
**1421-1422**



**1431-1432**



**1441-1442**



## Elements of Selection

**1401-1442**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1401	.430	.055	.095	.357	.163	.201	.616
1401A	.860	.263	.263	.553	.327	.402	.616

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1401	12"	9138	1538	.02	1538
1401A		21094	1590*	.01	1590*
1401	24"	8137	769	.09	769
1401A		19757	1590*	.04	1590*
1401	36"	7050	513	.20	388
1401A		18094	1428	.11	1428
1401	48"	5405	384	.35	218
1401A		16139	1071	.20	1053
1401	60"	3512	308	.55	140
1401A		13906	857	.32	674
1401	72"	2439	256	.79	97
1401A		11387	714	.46	468
1401	84"	1792	220	1.07	71
1401A		8645	612	.62	344
1401	96"	-	192	1.41	55
1401A		6619	535	.81	263
1401	108"	-	171	1.78	43
1401A		5230	476	1.03	208
1401	120"	-	154	2.20	35
1401A		4236	428	1.27	168

### Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

### Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.

For Fabricated Channels, reduce beam load values as follows:

- 1411 & 1412 15%
- 1421 & 1422 10%
- 1431 & 1432 30%
- 1441 & 1442 5%

### TECHNICAL DATA

#### SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" to 4" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.



# CHANNEL

**1501-1542**

## 1<sup>5</sup>/<sub>8</sub>" X 3<sup>1</sup>/<sub>4</sub>" X 12 Gauge

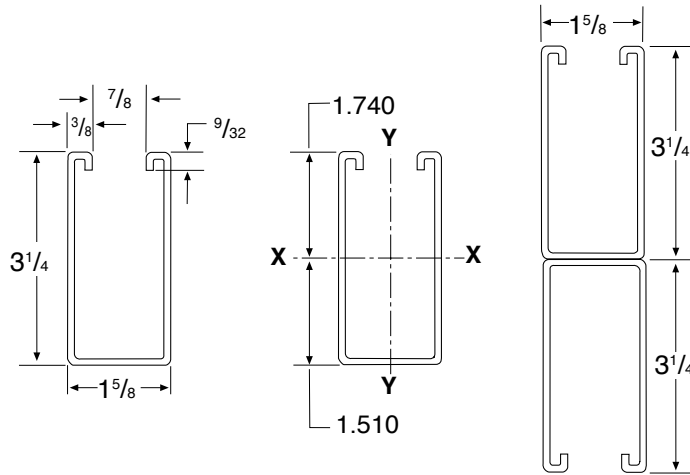
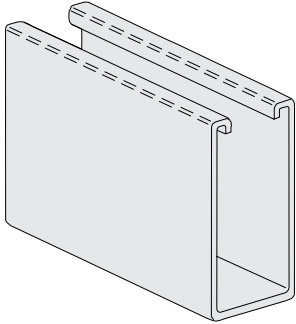
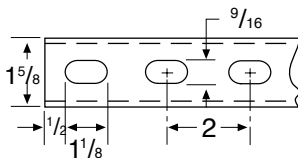
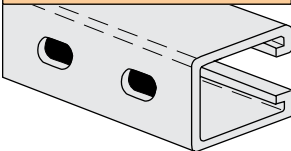


Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1501	1502	No Openings	2.99	300	300
1501A	1502A	Welded Back to Back	5.98	100	200
1511	1512	With 1 <sup>1</sup> / <sub>8</sub> " X <sup>9</sup> / <sub>16</sub> " slots on 2" centers	2.90	300	300
1511A	1512A	Welded Back to Back	5.80	100	200
1521	1522	With <sup>9</sup> / <sub>16</sub> " dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	2.91	300	300
1521A	1522A	Welded Back to Back	6.02	100	200
1531	1532	With 3" slots	2.89	300	300
1541	1542	With <sup>7</sup> / <sub>8</sub> " Knockouts on 6" centers	2.99	300	300

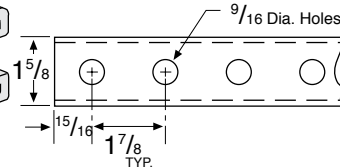
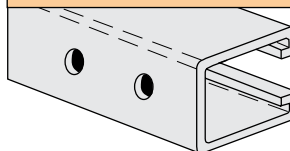
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Specify Figure No.,  
finish and number  
of feet.

Available in stainless steel. Price on request. To order stainless steel, specify 304 or 316 and add suffix SS to fig. number.

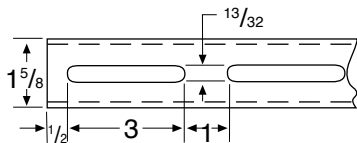
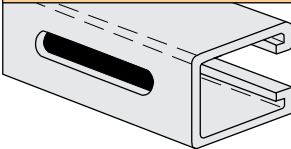
**1511-1512**



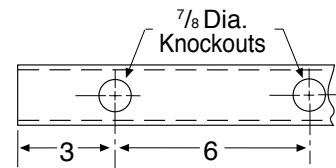
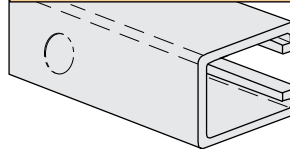
**1521-1522**



**1531-1532**



**1541-1542**



## Elements of Selection

**1501-1542**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1501	.902	1.115	.641	1.112	.436	.537	.695
1501A	1.804	6.349	1.953	1.876	.873	1.074	.695

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1501		8190	5130	.03	5130
1501A	24"	17701	5130*	.01	5130*
1501		7311	3488	.07	3488
1501A	36"	17416	5130*	.02	5130*
1501		6214	2616	.12	2616
1501A	48"	17016	5130*	.04	5130*
1501		4988	2093	.18	2093
1501A	60"	16503	5130*	.08	5130*
1501		3816	1744	.26	1744
1501A	72"	15876	5130*	.14	5130*
1501		3063	1495	.36	1460
1501A	84"	15135	4552	.19	4552
1501		2564	1308	.47	1118
1501A	96"	14279	3983	.25	3983
1501		2213	1163	.59	884
1501A	108"	13310	3541	.32	3541
1501		1953	1046	.73	716
1501A	120"	12226	3187	.39	3187
1501		—	880	1.06	500
1501A	144"	—	2656	.56	2656
1501		—	750	1.43	370
1501A	168"	—	2276	.77	2078
1501		—	660	1.88	280
1501A	192"	—	1992	1.00	1591
1501		—	580	2.35	220
1501A	216"	—	1770	1.27	1257
1501		—	530	2.94	180
1501A	240"	—	1593	1.56	1018

For Fabricated Channels, reduce beam load values as follows:

- 1511 & 1512    15%
- 1521 & 1522    10%
- 1531 & 1532    30%
- 1541 & 1542    5%

### TECHNICAL DATA

#### SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" to 4" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.

### Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

### Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.



# CHANNEL

**1601-1642**

## 1<sup>5</sup>/<sub>8</sub>" X 2<sup>7</sup>/<sub>16</sub>" X 12 Gauge

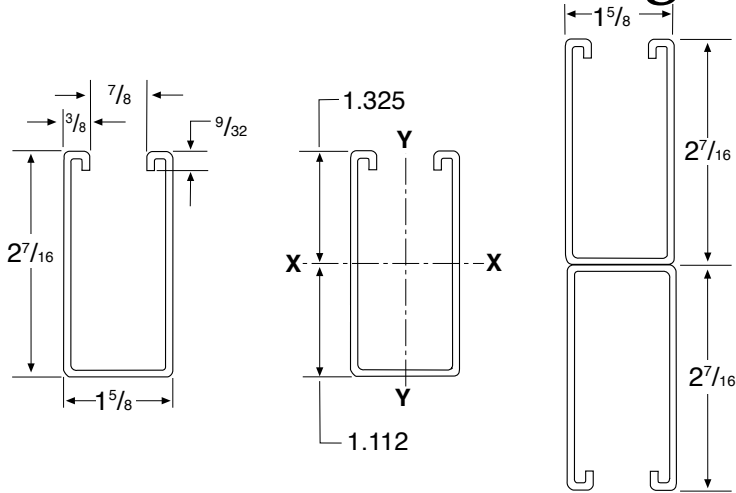
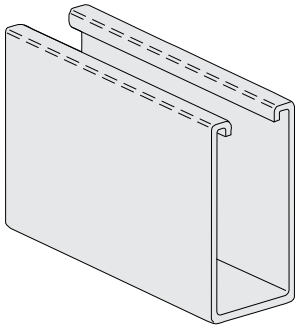
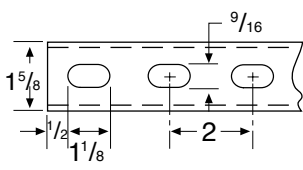
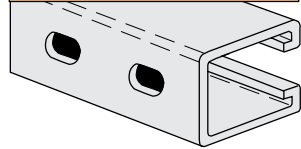


Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1601	1602	No Openings	2.30	300	400
1601A	1602A	Welded Back to Back	4.60	200	200
1611	1612	With 1 <sup>1</sup> / <sub>8</sub> " X <sup>9</sup> / <sub>16</sub> " slots on 2" centers	2.23	300	400
1611A	1612A	Welded Back to Back	4.46	200	200
1621	1622	With <sup>9</sup> / <sub>16</sub> " dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	2.25	300	400
1621A	1622A	Welded Back to Back	4.86	200	200
1631	1632	With 3" slots	2.21	300	400
1641	1642	With <sup>7</sup> / <sub>8</sub> " Knockouts on 6" centers	2.30	300	400

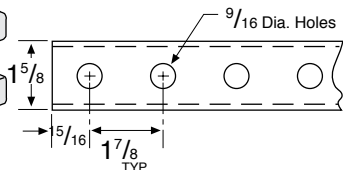
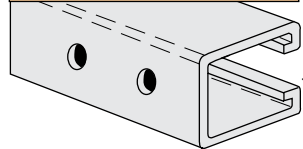
**ORDERING:**  
Specify Figure No.,  
finish and number  
of feet.

Available in stainless steel. Price on request. To order stainless steel, specify 304 or 316 and add suffix SS to fig. number.

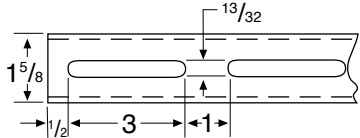
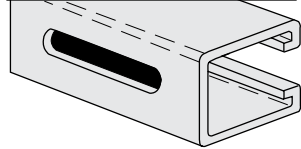
**1611-1612**



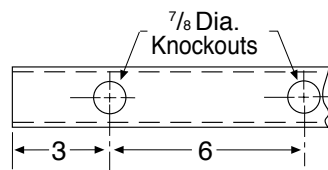
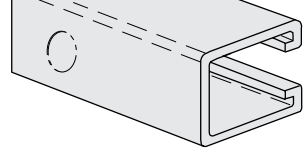
**1621-1622**



**1631-1632**



**1641-1642**



## Elements of Selection

**1601-1642**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1601	.732	.531	.401	.852	.338	.416	.680
1601A	1.464	2.874	1.179	1.401	.676	.832	.680

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1601	12"	10140	3880	.01	3880
1601A		20820	3880*	.01	3880*
1601	24"	9244	3273	.04	3273
1601A		20519	3880*	.01	3880*
1601	36"	7933	2182	.09	2182
1601A		20017	3880*	.03	3880*
1601	48"	6386	1636	.15	1636
1601A		19315	3880*	.07	3880*
1601	60"	4785	1309	.24	1309
1601A		18412	3847*	.13	3847*
1601	72"	3717	1091	.35	947
1601A		17309	3206	.19	3206
1601	84"	3052	935	.47	696
1601A		16005	2748	.26	2748
1601	96"	2600	818	.62	533
1601A		14500	2404	.33	2404
1601	108"	2271	727	.77	421
1601A		12795	2137	.42	2137
1601	120"	2019	655	.96	341
1601A		10889	1924	.52	1844

For Fabricated Channels, reduce beam load values as follows:

- 1611 & 1612 15%
- 1621 & 1622 10%
- 1631 & 1632 30%
- 1641 & 1642 5%

### TECHNICAL DATA

#### SPOT WELDING

Resistance welding of back to back strut channel is accomplished by way of an AC powered press type spot welder. This equipment produces a series of spot welds from 2" to 4" apart continuously down the length of the channel. Consistency is maintained by the use of a highly sophisticated constant current weld control. This processor is capable of maintaining weld sequence, duration and current control along with other variables. Any deviations in the programmed parameters will issue forth an alarm or shut down fault, which is then investigated. Weld quality is tested every 300-350 welds through the use of a destructive test method.

Through the use of modern technology, destructive and non-destructive testing, the quality of strut can be maintained. Spot weld strut is fabricated in accordance with the R.W.M.A. guidelines for resistance welding.

### Beam Loads

Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

### Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.



# CHANNEL

**1701-1742**

## 1<sup>5</sup>/<sub>8</sub>" X 1<sup>3</sup>/<sub>8</sub>" X 12 Gauge

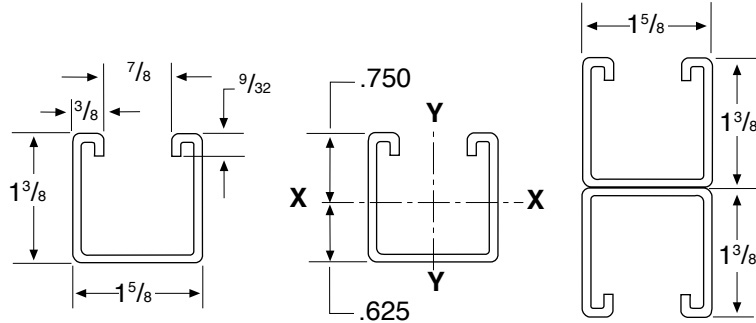
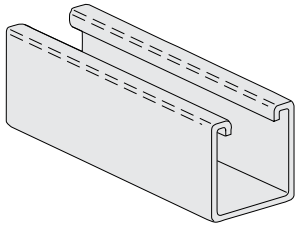
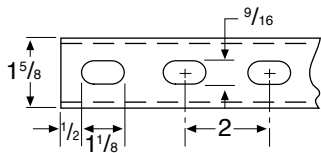
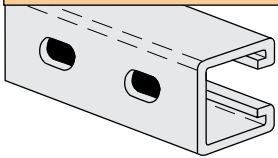


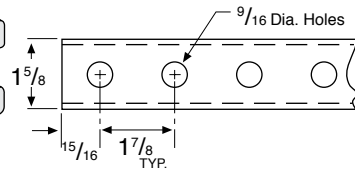
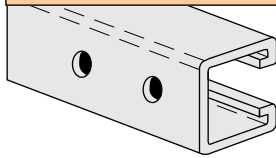
Fig. Number		Type - Description	Weight Per Foot (in Lbs.)	Bundle Qty.	
10 ft.	20 ft.			10 ft.	20 ft.
1701	1702	No Openings	1.59	500	500
1701A	1702A	Welded Back to Back	3.40	200	300
1711	1712	With 1 <sup>1</sup> / <sub>8</sub> " X <sup>9</sup> / <sub>16</sub> " slots on 2" centers	1.54	500	500
1711A	1712A	Welded Back to Back	3.24	200	300
1721	1722	With <sup>9</sup> / <sub>16</sub> " dia. holes on 1 <sup>7</sup> / <sub>8</sub> " centers	1.65	500	500
1721A	1722A	Welded Back to Back	3.30	200	300
1731	1732	With 3" slots	1.59	500	500
1741	1742	With <sup>7</sup> / <sub>8</sub> " Knockouts on 6" centers	1.59	500	500

**ORDERING:**  
Specify Figure No.,  
finish and number  
of feet.

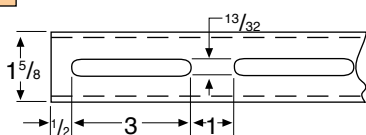
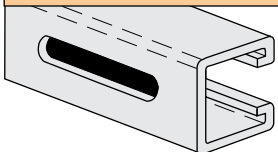
**1711-1712**



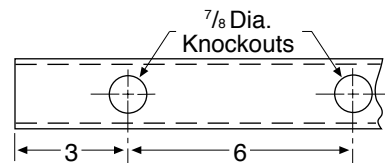
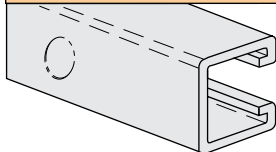
**1721-1722**



**1731-1732**



**1741-1742**





## Elements of Selection

**1701-1742**

Figure Number	X-X Axis				Y-Y Axis		
	Area of Section Inches <sup>2</sup>	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches	Moment of Inertia Inches <sup>4</sup>	Section Modulus Inches <sup>3</sup>	Radius of Gyration Inches
1701	.508	.124	.159	.494	.209	.257	.641
1701A	1.016	.613	.445	.776	.418	.514	.641

Modules of Elasticity: 29,500,000 PSI

## Beam & Column Loads

Figure Number	Beam Span or Unbraced Column Height	Maximum Column Load (in Lbs.)	Uniform Load @ 25,000 PSI (in Lbs.)	Deflection @ 25,000 PSI (in Inches)	Uniform Load @ 1/240 Span (in Lbs.)
1701	12"	10278	2210	.02	2210
1701A		21320	2210*	.01	2210*
1701	24"	9104	1299	.07	1299
1701A		20806	2210*	.02	2210*
1701	36"	7640	866	.15	866
1701A		19950	2210*	.08	2210*
1701	48"	6151	649	.26	495
1701A		18751	1817	.15	1817
1701	60"	4778	520	.41	317
1701A		17210	1454	.23	1454
1701	72"	3870	433	.59	220
1701A		15326	1211	.33	1092
1701	84"	3243	371	.80	162
1701A		13100	1038	.45	802
1701	96"	2774	325	1.04	124
1701A		10525	909	.59	614
1701	108"	2403	289	1.32	98
1701A		8316	808	.75	485
1701	120"	1993	260	1.63	79
1701A		6736	727	.92	393

For Fabricated Channels, reduce beam load values as follows:

1711 & 1712	15%
1721 & 1722	10%
1731 & 1732	30%
1741 & 1742	5%

### TECHNICAL DATA

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Loads listed are uniformly distributed, for loads concentrated at center of span multiply uniform load by .5 and multiply the deflection by .8. When deflection is not a factor use stress of 25,000 PSI. When deflection is a factor use deflection of 1/240 Span. \*Failure determined by weld shear.

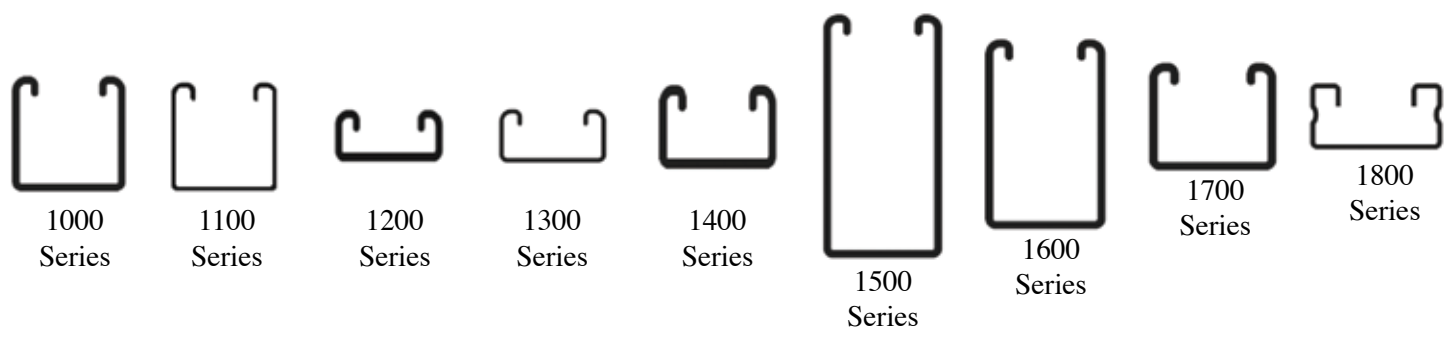
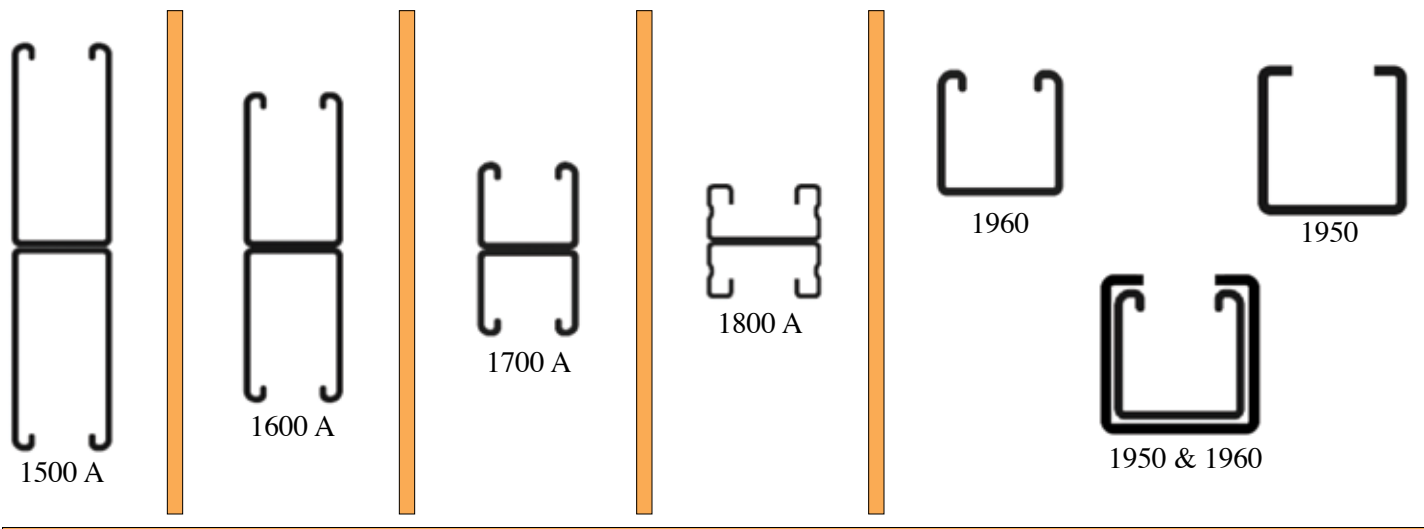
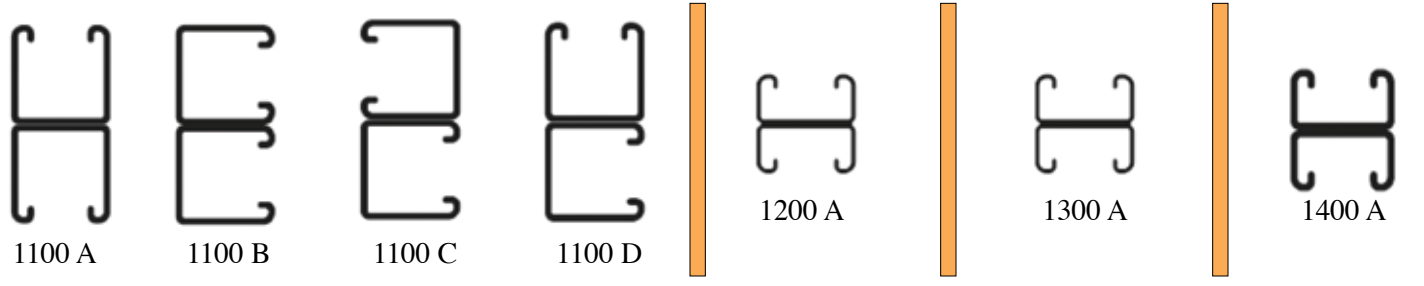
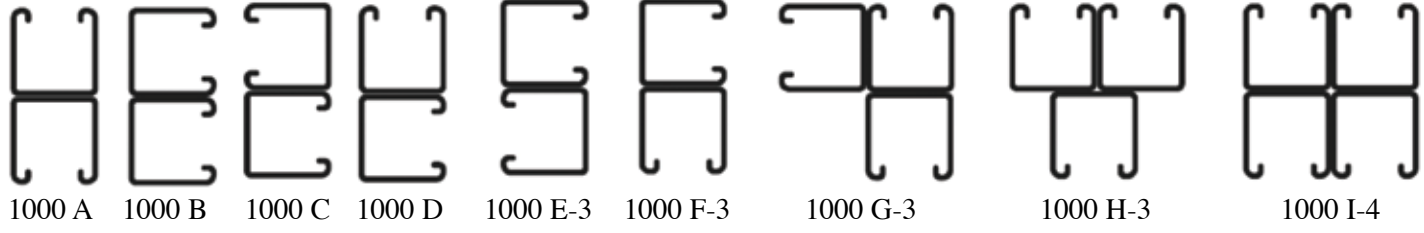
### Column Loads

Column loadings are for allowable axial loads for the unsupported heights listed and include a K value of .80. If eccentric, loads should be reduced according to standard practice.



# STRUT CHANNEL

## Channel Combinations



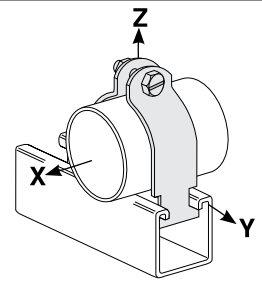
# STRUT CLAMPS



## I.P. Pipe Clamp

Fig. Number	Pipe Size	O.D. Size	Std. Package	Material Size	Max. Rec. Loads (in Lbs.)			Wt. Each (in Lbs.)
					X	Y	Z	
2001	3/8	•	100	16 Ga.	50	50	400	.10
2002	1/2	•	100	16 Ga.	50	50	400	.10
2003	3/4	•	100	14 Ga.	75	75	600	.14
2004	1	•	100	14 Ga.	75	75	600	.17
2005	1 1/4	•	100	14 Ga.	75	75	600	.21
2006	1 1/2	•	50	12 Ga.	125	125	800	.30
2007	2	2 3/8	50	12 Ga.	125	125	800	.35
2008	2 1/2	2 7/8	50	12 Ga.	125	125	800	.39
2009	3	3 1/2	50	12 Ga.	125	125	800	.46
2010	3 1/2	4	50	11 Ga.	150	200	1000	.65
2011	4	4 1/2	25	11 Ga.	150	200	1000	.66
2012	5	•	25	11 Ga.	150	200	1000	.79
2013	6	6 5/8	25	11 Ga.	150	200	1000	1.00
2014	8	8 5/8	25	11 Ga.	200	250	1000	1.14
2015	10	10 3/4	25	11 Ga.	200	250	1000	1.43
2016	12	12 3/4	25	11 Ga.	200	250	1000	1.74

**2001-2016**



**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

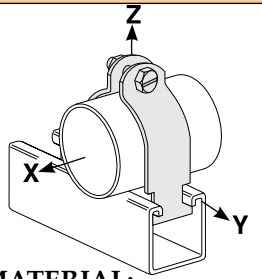
**ORDERING:**  
Specify figure number and pipe size.

Available in aluminum and stainless steel. Price on request. To order aluminum, add suffix AL to fig. number. To order stainless steel, specify 304 or 316 and add suffix SS to fig. number.

## Universal Pipe Clamp for EMT, IMC & GRC

Fig. Number	Nominal Size	O.D. Size Range	Std. Package	Material Size	Max. Rec. Loads (in Lbs.)			Wt. Each (in Lbs.)
					X	Y	Z	
2101	3/8	.557 to .706	100	16 Ga.	50	50	400	.11
2102	1/2	.706 to .840	100	16 Ga.	50	50	400	.11
2103	3/4	.922 to 1.050	100	14 Ga.	50	50	400	.15
2104	1	1.163 to 1.315	100	14 Ga.	50	50	400	.17
2105	1 1/4	1.510 to 1.660	100	14 Ga.	50	50	400	.19
2106	1 1/2	1.740 to 1.90	50	12 Ga.	75	75	600	.30
2107	2	2.197 to 2.375	50	12 Ga.	75	75	600	.35

**2101-2107**



**MATERIAL:**  
Low carbon steel

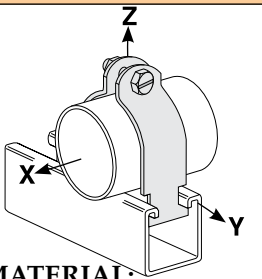
**FINISH:**  
Electro-galvanized

**ORDERING:** Specify figure number and nominal size.

## EMT Conduit Clamp

Fig. Number	EMT Size	Std. Package	Material Size	Max. Rec. Loads (in Lbs.)			Wt. Each (in Lbs.)
				X	Y	Z	
2201	3/8	100	16 Ga.	50	50	400	.09
2202	1/2	100	16 Ga.	50	50	400	.09
2203	3/4	100	16 Ga.	50	50	400	.10
2204	1	100	14 Ga.	50	50	600	.14
2205	1 1/4	100	14 Ga.	50	50	600	.16
2206	1 1/2	50	12 Ga.	75	75	800	.27
2207	2	50	12 Ga.	75	75	800	.30

**2201-2207**



**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

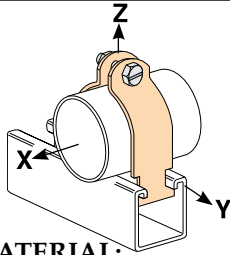
**ORDERING:** Specify figure number and EMT size.



# STRUT CLAMPS

## 2301-2314

### Copper Tubing Clamp



**MATERIAL:**  
Low carbon steel

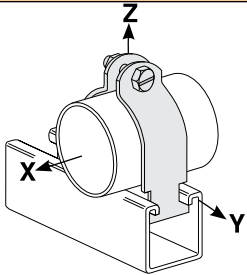
**FINISH:**  
Copper Color Epoxy Finish

**ORDERING:**  
Specify figure number  
and tube size.

Fig. Number	Tube Size	Std. Package	Material Size	Max. Rec. Loads (in Lbs.)			Wt. Each (in Lbs.)
				X	Y	Z	
2301	1/4	100	16 Ga.	50	50	400	.09
2302	3/8	100	16 Ga.	50	50	400	.09
2303	1/2	100	16 Ga.	50	50	400	.09
2304	3/4	100	16 Ga.	50	50	400	.10
2305	1	100	14 Ga.	75	75	600	.14
2306	1 1/4	100	14 Ga.	75	75	600	.16
2307	1 1/2	100	14 Ga.	75	75	600	.17
2308	2	50	12 Ga.	125	125	800	.29
2309	2 1/2	50	12 Ga.	125	125	800	.35
2310	3	50	12 Ga.	125	125	800	.40
2311	3 1/2	25	12 Ga.	150	200	1000	.51
2312	4	25	12 Ga.	150	200	1000	.61
2313	5	25	11 Ga.	150	200	1000	.74
2314	6	25	11 Ga.	200	250	1000	.94

## 2401-2435

### O.D. Tube Clamp



**APPLICATION:**

For use with No-Hub  
Cast Iron Soil Pipe

Fig. Number	No-Hub Cast Iron Soil Nom. Pipe Size
2006	1 1/2
2007	2
2424	3
2430	4
2437	5
2445	6
2460	8
2477	10
2493	12

**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

**ORDERING:**  
Specify figure number  
and O.D. tube size.

Fig. Number	O.D. Size	Std. Package	Material Size	Max. Rec. Loads (in Lbs.)			Wt. Each (in Lbs.)
				X	Y	Z	
2401	1/4	100	16 Ga.	50	50	400	.09
2402	3/8	100	16 Ga.	50	50	400	.09
2403	1/2	100	16 Ga.	50	50	400	.10
2404	5/8	100	16 Ga.	50	50	400	.10
2405	3/4	100	16 Ga.	50	50	400	.10
2406	7/8	100	16 Ga.	50	50	400	.10
2407	1	100	14 Ga.	75	75	600	.13
2408	1 1/8	100	14 Ga.	75	75	600	.14
2409	1 1/4	100	14 Ga.	75	75	600	.14
2410	1 3/8	100	14 Ga.	75	75	600	.16
2411	1 1/2	100	14 Ga.	75	75	600	.16
2412	1 5/8	100	14 Ga.	75	75	600	.17
2413	1 3/4	50	12 Ga.	125	125	800	.27
2414	1 7/8	50	12 Ga.	125	125	800	.28
2415	2	50	12 Ga.	125	125	800	.28
2416	2 1/8	50	12 Ga.	125	125	800	.29
2417	2 1/4	50	12 Ga.	125	125	800	.32
2418	2 1/2	50	12 Ga.	125	125	800	.34
2419	2 3/8	50	12 Ga.	125	125	800	.35
2420	2 3/4	50	12 Ga.	125	125	800	.37
2421	3	50	12 Ga.	125	125	800	.39
2422	3 1/8	50	12 Ga.	125	125	800	.40
2423	3 1/4	50	12 Ga.	125	125	800	.42
2424	3 3/8	50	12 Ga.	125	125	800	.43
2425	3 5/8	50	11 Ga.	150	200	1000	.51
2426	3 3/4	50	11 Ga.	150	200	1000	.53
2427	3 7/8	50	11 Ga.	150	200	1000	.54
2428	4 1/8	50	11 Ga.	150	200	1000	.57
2429	4 1/4	25	11 Ga.	150	200	1000	.59
2430	4 3/8	25	11 Ga.	150	200	1000	.60
2431	4 5/8	25	11 Ga.	150	200	1000	.62
2432	4 3/4	25	11 Ga.	150	200	1000	.64
2433	4 7/8	25	11 Ga.	150	200	1000	.65
2434	5	25	11 Ga.	150	200	1000	.67
2435	5 1/8	25	11 Ga.	150	200	1000	.68

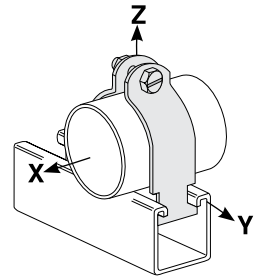
# STRUT CLAMPS



## O.D. Tube Clamp - Cont'd.

Fig. Number	O.D. Size	Std. Package	Material Size	Max. Rec. Loads (in Lbs.)			Wt. Each (in Lbs.)
				X	Y	Z	
2436	5 <sup>1</sup> / <sub>4</sub>	25	11 Ga.	150	200	1000	.70
2437	5 <sup>3</sup> / <sub>8</sub>	25	11 Ga.	150	200	1000	.71
2438	5 <sup>1</sup> / <sub>2</sub>	25	11 Ga.	150	200	1000	.72
2439	5 <sup>5</sup> / <sub>8</sub>	25	11 Ga.	150	200	1000	.85
2440	5 <sup>3</sup> / <sub>4</sub>	25	11 Ga.	150	200	1000	.87
2441	5 <sup>7</sup> / <sub>8</sub>	25	11 Ga.	150	200	1000	.88
2442	6	25	11 Ga.	150	200	1000	.90
2443	6 <sup>1</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	.94
2444	6 <sup>1</sup> / <sub>4</sub>	25	11 Ga.	200	250	1000	.93
2445	6 <sup>3</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	.95
2446	6 <sup>1</sup> / <sub>2</sub>	25	11 Ga.	200	250	1000	.98
2447	6 <sup>3</sup> / <sub>4</sub>	25	11 Ga.	200	250	1000	.99
2448	6 <sup>7</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	1.00
2449	7	25	11 Ga.	200	250	1000	1.01
2450	7 <sup>1</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	1.02
2451	7 <sup>1</sup> / <sub>4</sub>	25	11 Ga.	200	250	1000	1.04
2452	7 <sup>3</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	1.07
2453	7 <sup>1</sup> / <sub>2</sub>	25	11 Ga.	200	250	1000	1.09
2454	7 <sup>5</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	1.10
2455	7 <sup>3</sup> / <sub>4</sub>	25	11 Ga.	200	250	1000	1.12
2456	7 <sup>7</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	1.13
2457	8	25	11 Ga.	200	250	1000	1.15
2458	8 <sup>1</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	1.17
2459	8 <sup>1</sup> / <sub>4</sub>	25	11 Ga.	200	250	1000	1.18
2460	8 <sup>3</sup> / <sub>8</sub>	25	11 Ga.	200	250	1000	1.20
2461	8 <sup>1</sup> / <sub>2</sub>	25	11 Ga.	200	250	1000	1.21

**2436-2461**



**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

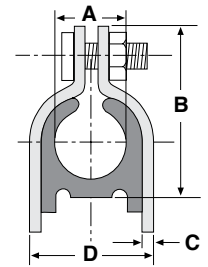
**ORDERING:**  
Specify figure number and O.D. tube size.

Available in aluminum and stainless steel. Price on request. To order aluminum, add suffix AL to fig. number. To order stainless steel, specify 304 or 316 and add suffix SS to fig. number.

## Clamp With Cushion

Fig. Number	O.D. Size A	Nom. Tube Size	B	C	D	Std. Package	Wt. Each (in Lbs.)
2501	1/4	1/8	1 <sup>1</sup> / <sub>16</sub>	.060	1/2	30	.12
2502	3/8	1/4	1 <sup>1</sup> / <sub>4</sub>	.060	5/8	30	.13
2503	1/2	3/8	1 <sup>3</sup> / <sub>8</sub>	.060	3/4	30	.13
2504	5/8	1/2	1 <sup>1</sup> / <sub>2</sub>	.060	7/8	20	.15
2505	3/4	5/8	1 <sup>3</sup> / <sub>4</sub>	.075	1 <sup>1</sup> / <sub>8</sub>	20	.21
2506	7/8	3/4	1 <sup>7</sup> / <sub>8</sub>	.075	1 <sup>1</sup> / <sub>4</sub>	20	.22
2507	1 <sup>1</sup> / <sub>8</sub>	1	2 <sup>1</sup> / <sub>16</sub>	.075	1 <sup>1</sup> / <sub>2</sub>	10	.29
2508	1 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	2 <sup>7</sup> / <sub>16</sub>	.075	1 <sup>3</sup> / <sub>4</sub>	10	.33
2509	1 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	3	.105	2 <sup>1</sup> / <sub>4</sub>	10	.42
2510	2 <sup>1</sup> / <sub>8</sub>	2	3 <sup>3</sup> / <sub>8</sub>	.105	2 <sup>3</sup> / <sub>4</sub>	10	.50
2511	2 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	3 <sup>7</sup> / <sub>8</sub>	.105	3 <sup>1</sup> / <sub>4</sub>	10	.62
2512	3 <sup>1</sup> / <sub>8</sub>	3	4 <sup>5</sup> / <sub>16</sub>	.105	3 <sup>3</sup> / <sub>4</sub>	10	.66
2514	4 <sup>1</sup> / <sub>8</sub>	4	5 <sup>1</sup> / <sub>2</sub>	.125	4 <sup>3</sup> / <sub>4</sub>	10	.88

**2501-2514**



**MATERIAL:**  
Low carbon steel and thermoplastic elastomer

**FINISH:**  
Western gold

**ORDERING:**  
Specify figure number and O.D. size.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

## Cushion Material

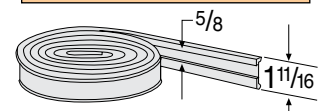
**2600**

**MATERIAL:**  
EPDM

**STOCK:**  
Thickness: 1/8  
Length: 25 ft./box

Service Temp: -70° to 350°F  
Weight per ft: .102

**ORDERING:** Specify figure number and number of feet.





# STRUT NUTS

## 3001-3011

### Strut Nut without Spring

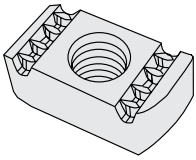


Fig. Number	Thread Size	Std. Package	Thickness	Weight Each (in Lbs.)
3001	#8-32	100	1/4	.06
3002	#10-24	100	1/4	.06
3003	#10-32	100	1/4	.06
3004*	1/4	100	1/4	.06
3005	5/16	100	1/4	.07
3006*	3/8	100	3/8	.09
3007	7/16	100	3/8	.09
3008*	1/2	100	1/2	.12
3009	5/8	100	1/2	.13
3010	3/4	100	1/2	.13
3011	7/8	100	1/2	.13

**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

**ORDERING:** Specify figure number and thread size.

Available in stainless steel. To order, specify 316 and add suffix SS to fig. number. Price on request.  
\*Available in aluminum. To order, add suffix AL to fig. number. Price on request.

## 3101-3111

### Strut Nut with Spring

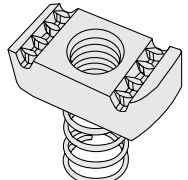


Fig. Number	Thread Size	Std. Package	Thickness	Weight Each (in Lbs.)
3101	#8-32	100	1/4	.07
3102	#10-24	100	1/4	.07
3103	#10-32	100	1/4	.07
3104*	1/4	100	1/4	.07
3105	5/16	100	1/4	.07
3106*	3/8	100	3/8	.10
3107	7/16	100	3/8	.10
3108*	1/2	100	1/2	.13
3109	5/8	50	1/2	.15
3110	3/4	50	1/2	.15
3111	7/8	50	1/2	.15

**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

**ORDERING:** Specify figure number and thread size.

Available in stainless steel. To order, specify 316 and add suffix SS to fig. number. Price on request.  
\*Available in aluminum. To order, add suffix AL to fig. number. Price on request.

## 3201-3210

### Strut Nut with Short Spring

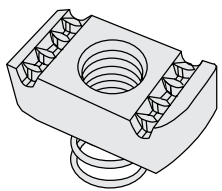


Fig. Number	Thread Size	Std. Package	Thickness	Weight Each (in Lbs.)
3201	#8-32	100	1/4	.07
3202	#10-24	100	1/4	.07
3203	#10-32	100	1/4	.07
3204	1/4	100	1/4	.07
3205	5/16	100	1/4	.07
3206	3/8	100	3/8	.09
3207	7/16	100	3/8	.09
3208	1/2	100	3/8	.09
3209	5/8	50	3/8	.10
3210	3/4	50	3/8	.10

**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

**ORDERING:** Specify figure number and thread size.

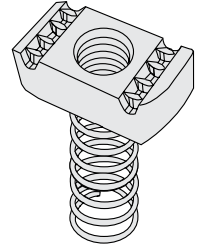
# STRUT NUTS



## Strut Nut with Long Spring

**3301-3311**

Fig. Number	Thread Size	Std. Package	Thickness	Weight Each (in Lbs.)
3301	#8-32	100	1/4	.07
3302	#10-24	100	1/4	.07
3303	#10-32	100	1/4	.07
3304	1/4	100	1/4	.07
3305	5/16	100	1/4	.07
3306	3/8	100	3/8	.10
3307	7/16	100	3/8	.09
3308	1/2	100	1/2	.13
3309	5/8	50	1/2	.15
3310	3/4	50	1/2	.15
3311	7/8	50	1/2	.14



**ORDERING:** Specify figure number and thread size.

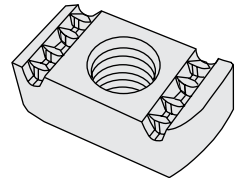
**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

## Shallow Strut Nut without Spring

**3351-3353**

Fig. Number	Thread Size	Std. Package	Thickness	Weight Each (in Lbs.)
3351	1/2	100	3/8	.09
3352	5/8	100	3/8	.11
3353	3/4	100	3/8	.09



**ORDERING:** Specify figure number and thread size.

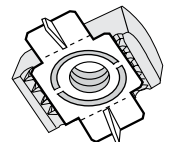
**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized

## Squeeze Nut

**3404-3408**

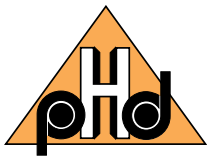
Fig. Number	Thread Size	Std. Package	Wt. Each (in Lbs.)
3404	1/4	100	.07
3406	3/8	100	.10
3408	1/2	100	.13



**ORDERING:** Specify figure number and thread size.  
**NOTE:** Fits all profiles of strut

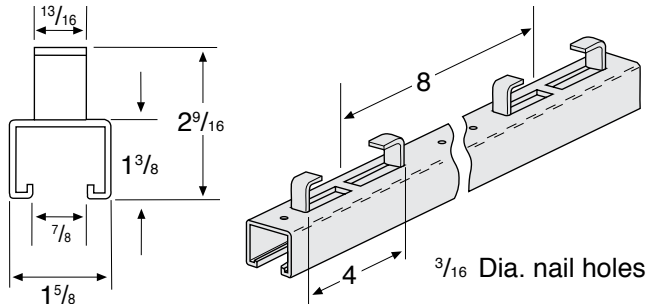
**MATERIAL:**  
Low carbon steel

**FINISH:**  
Electro-galvanized



# CONTINUOUS CONCRETE INSERT

## 4001-4002 1 5/8" X 1 3/8" X 12 Gauge



**MATERIAL:** Low carbon steel

**FINISH:** Pre-galvanized

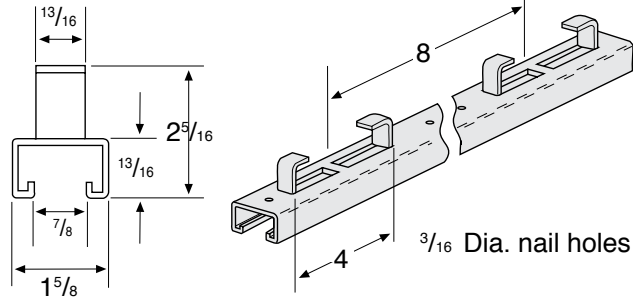
**ORDERING:** Available in various lengths. Specify length and figure number.

Fig. Number	Length (feet)	Max. Rec. Load/Lbs./ft.	Wt. Per Foot	Bundle Qty.
4001	10	2000	1.79	240
4002	20	2000	1.78	480

*Note: Furnished with Expanded Polyethylene filler for clean and easy removal.*

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

## 4101-4102 1 5/8" X 1 3/16" X 12 Gauge



**MATERIAL:** Low carbon steel

**FINISH:** Pre-galvanized

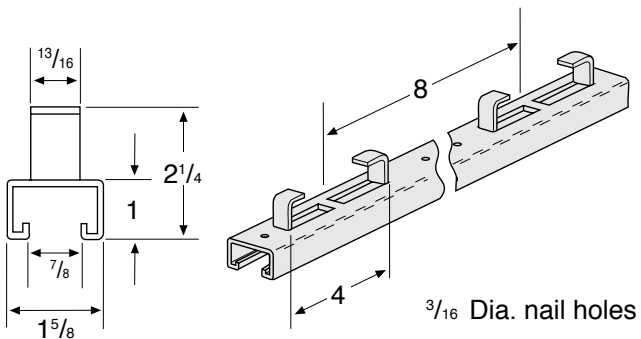
**ORDERING:** Available in various lengths. Specify length and figure number.

Fig. Number	Length (feet)	Max. Rec. Load/Lbs./ft.	Wt. Per Foot	Bundle Qty.
4101	10	1500	1.34	240
4102	20	1500	1.35	480

*Note: Furnished with Expanded Polyethylene filler for clean and easy removal.*

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

## 4201-4202 1 5/8" X 1" X 12 Gauge



**MATERIAL:** Low carbon steel

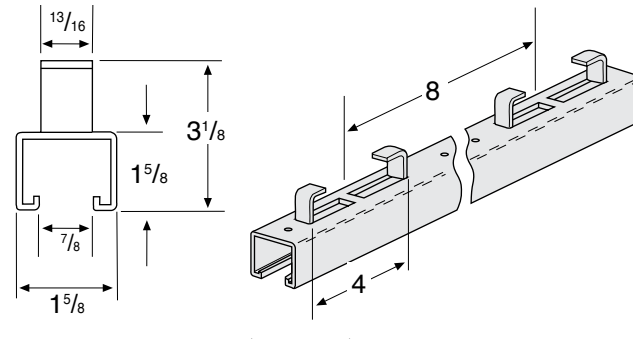
**FINISH:** Pre-galvanized

**ORDERING:** Available in various lengths. Specify length and figure number.

Fig. Number	Length (feet)	Max. Rec. Load/Lbs./ft.	Wt. Per Foot	Bundle Qty.
4201	10	2000	1.52	240
4202	20	2000	1.51	480

*Note: Furnished with Expanded Polyethylene filler for clean and easy removal.*

## 4301-4302 1 5/8" X 1 5/8" X 12 Gauge



**MATERIAL:** Low carbon steel

**FINISH:** Pre-galvanized

**ORDERING:** Available in various lengths. Specify length and figure number.

Fig. Number	Length (feet)	Max. Rec. Load/Lbs./ft.	Wt. Per Foot	Bundle Qty.
4301	10	2000	1.99	240
4302	20	2000	1.99	480

*Note: Furnished with styrofoam filler.*

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.



# END CAPS & CLOSURES



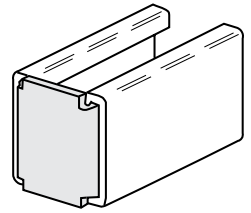
## Type A End Caps

Fig. Number	Std. Package	Use With Fig. Numbers	Wt. Each (in Lbs.)
4405	100	1000 & 4300	.10
4406	100	1300	.05
4410	100	1700 & 4000	.08
4420	100	1400 & 4200	.08

**MATERIAL:** Low carbon steel  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**4405-4420**

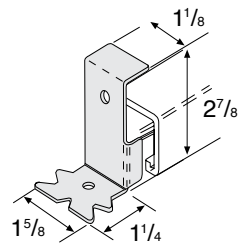


## Type B End Caps

Fig. Number	Std. Package	Use With Fig. Numbers	Wt. Each (in Lbs.)
4440	100	4000	.15
4450	100	4200	.15
4460	100	4100	.15
4470	100	4300	.15

**MATERIAL:** Low carbon steel  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

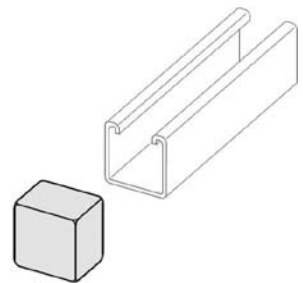
**4440-4470**



## Safety End Caps

Fig. Number	Color	Std. Package	Use With Fig. Numbers	Wt. Each (in Lbs.)
4475	Red	50	1200 & 1300	.03
4476	White	50	1200 & 1300	.03
4477	Yellow	50	1200 & 1300	.03
4478	Gray	50	1200 & 1300	.03
4479	Black	50	1200 & 1300	.03
4480	Red	50	1000 & 1100	.04
4481	White	50	1000 & 1100	.04
4482	Yellow	50	1000 & 1100	.04
4483	Gray	50	1000 & 1100	.04
4484	Black	50	1000 & 1100	.04
4485	Red	50	1500	.07
4486	White	50	1500	.07
4487	Yellow	50	1500	.07
4488	Gray	50	1500	.07
4489	Black	50	1500	.07

**4475-4489**



**MATERIAL:** PVC

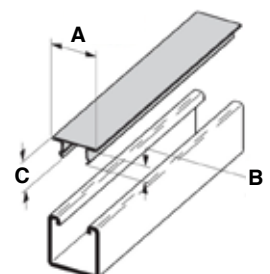
**ORDERING:** Specify figure number.

## Closure Strip

Fig. Number	A	B	C	Std. Length (feet)	Material	Wt. Each (in Lbs.)
4500	1 <sup>7</sup> / <sub>16</sub>	1/2	19/32	10	Plastic — Black	0.08
4501	1 <sup>11</sup> / <sub>32</sub>	3/8	7/16	10	Plastic — Grey	0.08
4502	1 <sup>11</sup> / <sub>32</sub>	3/8	7/16	10	Plastic — Green	0.08
4503	1 <sup>1</sup> / <sub>2</sub>	7/16	17/32	10	Steel — Plain	0.42
4504	1 <sup>1</sup> / <sub>2</sub>	7/16	17/32	10	Steel — PG	0.42
4505	1 <sup>1</sup> / <sub>2</sub>	7/16	17/32	10	Steel — Green	0.42
4506	1 <sup>7</sup> / <sub>16</sub>	15/32	1/2	10	Aluminum — Plain	0.14

**ORDERING:** Specify figure number.

**4500-4506**





# FLAT PLATE FITTINGS

## 5000-5004 Square Washer

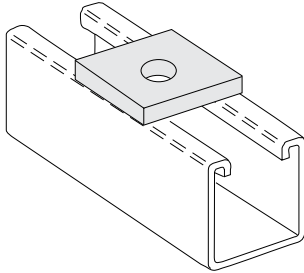


Fig. Number	Rod Size	Std. Package	Wt. Each (in Lbs.)
5000	1/4	100	.18
5001	3/8	100	.17
5002	1/2	100	.17
5003	5/8	100	.16
5004	3/4	100	.16

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and rod size.

## 5005-5009 No Turn Square Washer

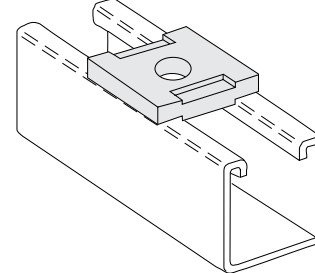


Fig. Number	Rod Size	Std. Package	Wt. Each (in Lbs.)
5005	1/4	100	.18
5006	3/8	100	.17
5007	1/2	100	.17
5008	5/8	100	.16
5009	3/4	100	.16

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and rod size.

## 5010-5012 2-Hole Splice Plate

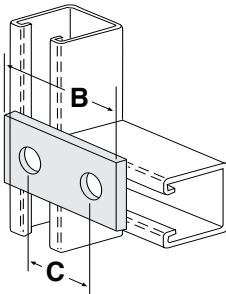


Fig. Number	Length B	C	Std. Package	Wt. Each (in Lbs.)
5010	3 <sup>1</sup> / <sub>2</sub>	1 <sup>7</sup> / <sub>8</sub>	50	.37
5011	4 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>2</sub>	50	.50
5012	3 <sup>3</sup> / <sub>4</sub>	1 <sup>5</sup> / <sub>8</sub>	50	.34

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5013-5014 3-Hole Splice Plate

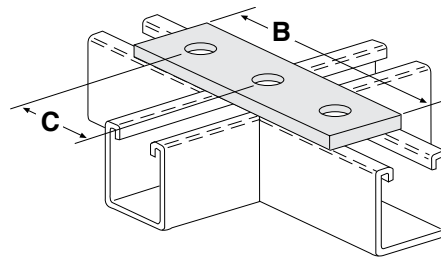


Fig. Number	Length B	C	Std. Package	Wt. Each (in Lbs.)
5013	5 <sup>3</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	25	.55
5014	4 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	25	.50

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

# FLAT PLATE FITTINGS



## 5015 4-Hole Splice Plate

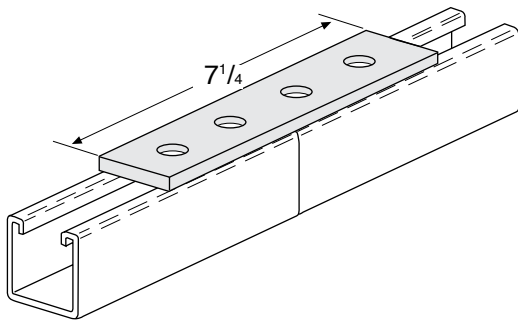


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5015	50	.75

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $\frac{17}{8}$  on centers

## 5017 4-Hole Splice Plate

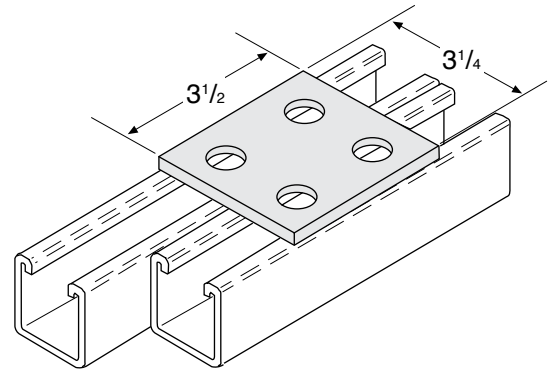


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5017	50	.55

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $\frac{17}{8}$  on centers

## 5019 5-Hole Splice Plate

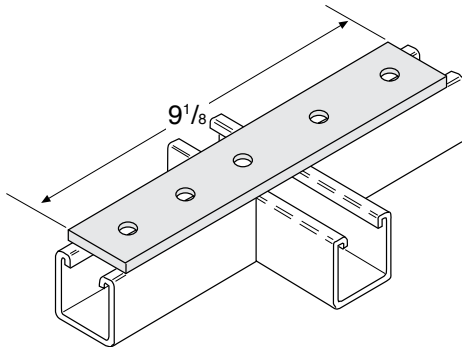


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5019	50	.96

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $\frac{17}{8}$  on centers

## 5020 2-Hole Swivel Plate

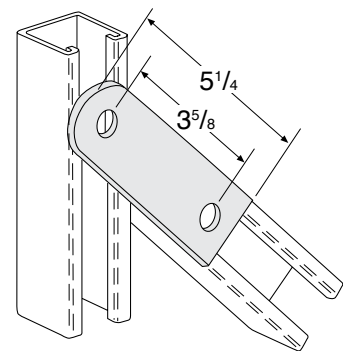


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5020	50	.56

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end

# FLAT PLATE FITTINGS

## 5023 3-Hole Swivel Plate

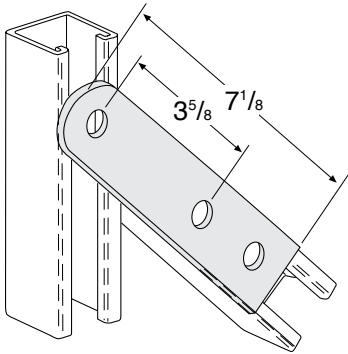


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5023	50	.76

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5025 3-Hole Corner Plate

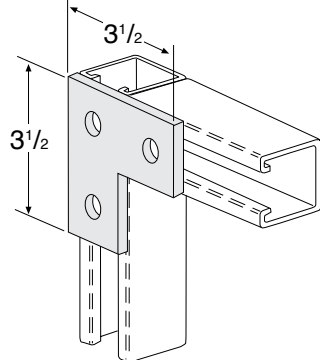


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5025	25	.58

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5030 4-Hole Corner Plate

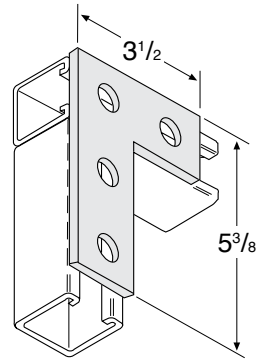


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5030	25	.75

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5035 4-Hole Tee Plate

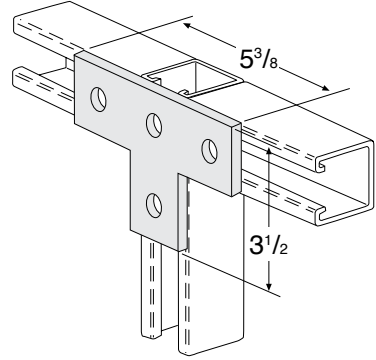


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5035	25	.75

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

# FLAT PLATE FITTINGS



## 5040 5-Hole Cross Plate

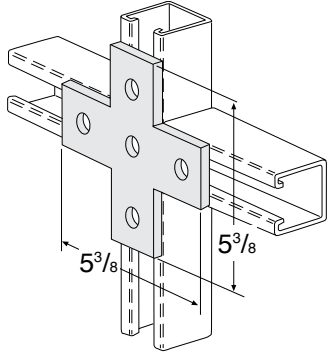


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5040	25	1.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5045 3-Hole Corner Gusset Plate

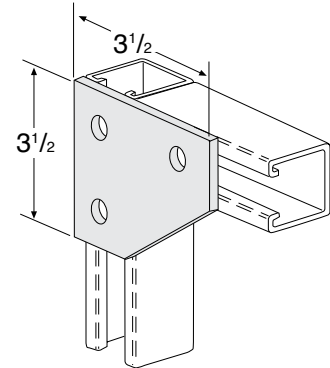


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5045	25	.70

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5050 4-Hole Corner Gusset Plate

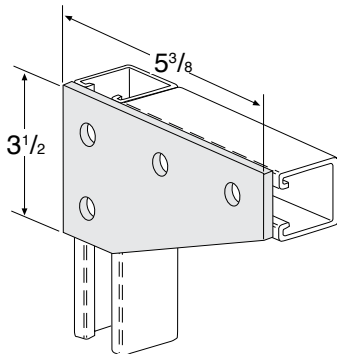


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5050	25	1.02

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5060 5-Hole Corner Gusset Plate

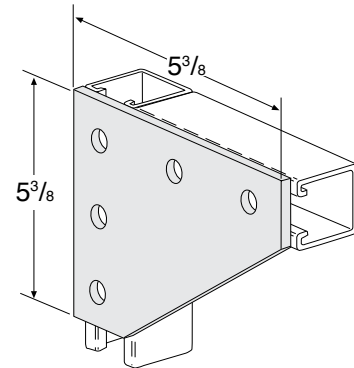


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5060	25	1.45

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5065 3-Hole Tee Gusset Plate

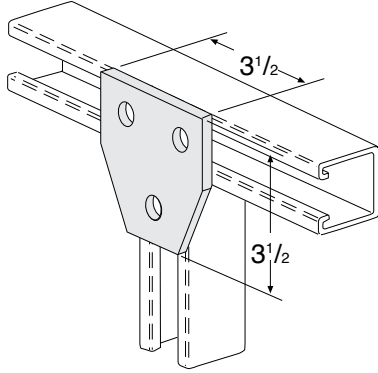


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5065	25	.70

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5075 4-Hole Tee Gusset Plate

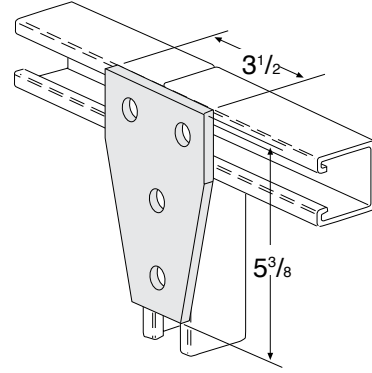


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5075	25	1.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5080 5-Hole Tee Gusset Plate

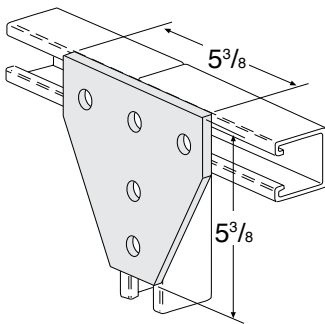


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5080	25	1.43

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5085 6-Hole Tee Gusset Plate

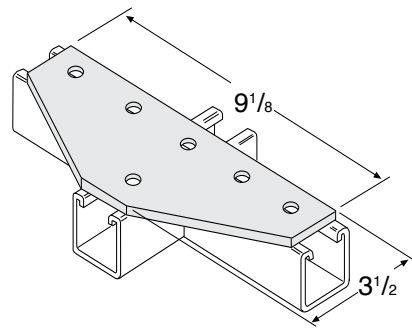


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5085	10	1.49

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

# FLAT PLATE FITTINGS



## 5090

### 6-Hole Cross Gusset Plate

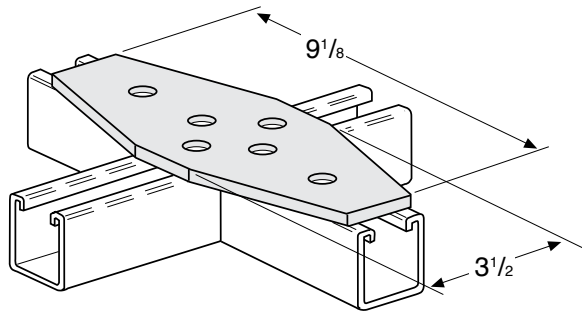


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5090	10	1.66

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5095

### 7-Hole Cross Gusset Plate

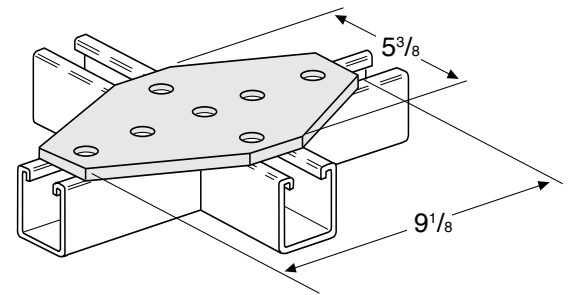


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5095	10	2.32

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

# 90° FITTINGS

## 5101-5107 1-Hole Angle

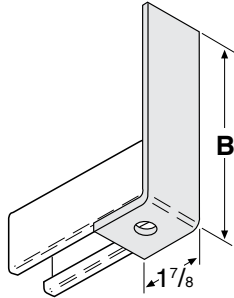


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5101	3 <sup>7</sup> / <sub>8</sub>	50	.48
5103	5 <sup>7</sup> / <sub>8</sub>	25	.83
5105	7 <sup>7</sup> / <sub>8</sub>	25	1.05
5107	9 <sup>7</sup> / <sub>8</sub>	25	1.30

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 1<sup>3</sup>/<sub>16</sub> from end

## 5110 2-Hole Corner Angle

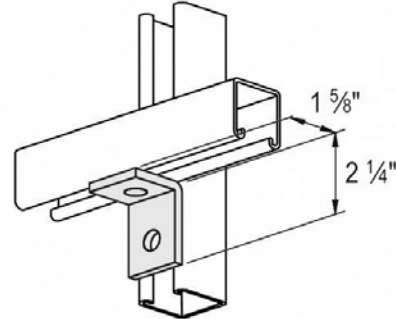


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5110	50	.36

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 1<sup>3</sup>/<sub>16</sub> from end

## 5112 2-Hole Corner Angle

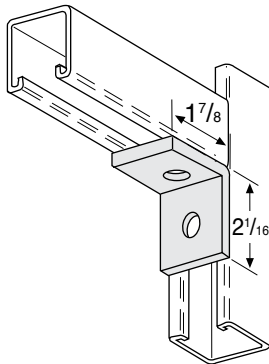


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5112	50	.37

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 1<sup>3</sup>/<sub>16</sub> from end

## 5115-5118 2-Hole Corner Angle

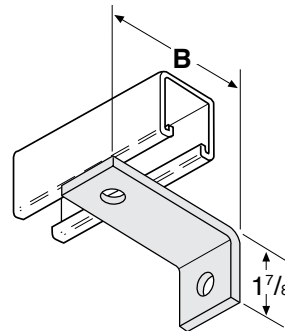


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5115	3	50	.49
5116	3 <sup>1</sup> / <sub>2</sub>	50	.54
5118	4	50	.61

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

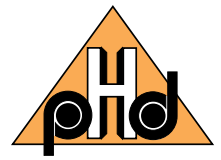
**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 1<sup>3</sup>/<sub>16</sub> from end



# 90° FITTINGS



## 5119

### "No-Turn" 2-Hole Corner Angle

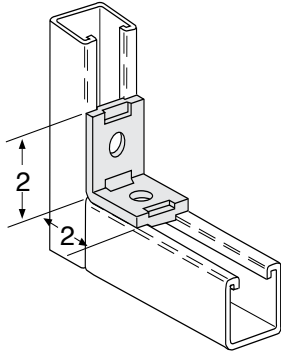


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5119	50	.40

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end

## 5120

### 3-Hole Corner Angle

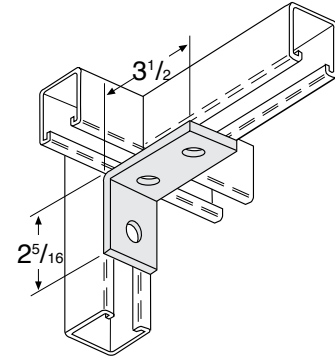


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5120	25	.58

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5121

### 3-Hole Corner Angle

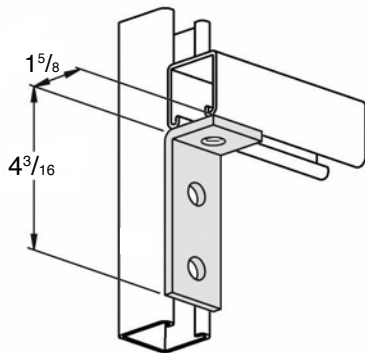


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5121	25	.50

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

## 5122

### 3-Hole Corner Angle

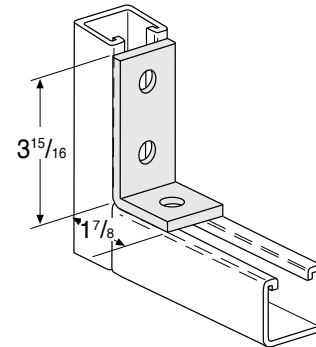


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5122	25	.58

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end •  $1\frac{7}{8}$  on centers

# 90° FITTINGS

## 5123 3-Hole Corner Angle

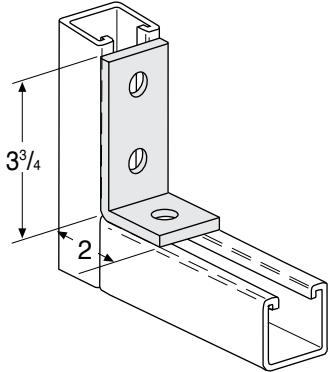


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5123	25	.58

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5130 4-Hole Corner Angle

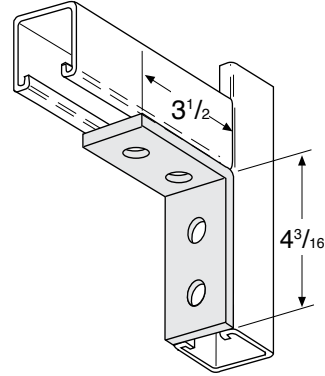


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5130	25	.78

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5131 4-Hole Corner Angle

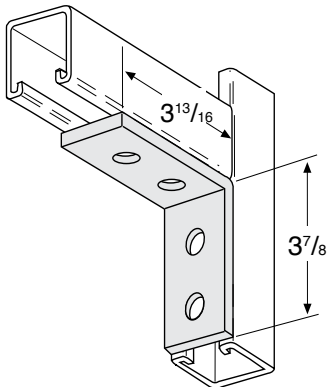


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5131	25	.76

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5135 4-Hole Corner Angle

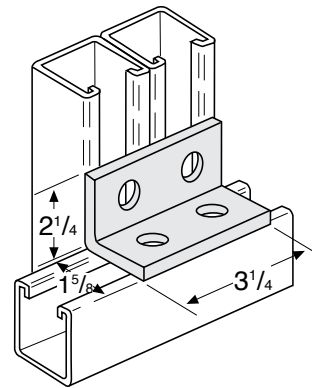


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5135	25	.73

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 5/8 on centers

# 90° FITTINGS



## 5140 & 5145 3-Hole Offset Bent Angle

Fig. 5140 Right  
Fig. 5145 Left

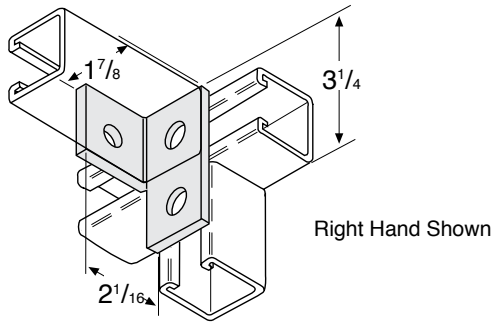


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5140	25	.53
5145	25	.53

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 5/8 on centers

## 5141 & 5146 3-Hole Offset Bent Angle

Fig. 5141 Right  
Fig. 5146 Left

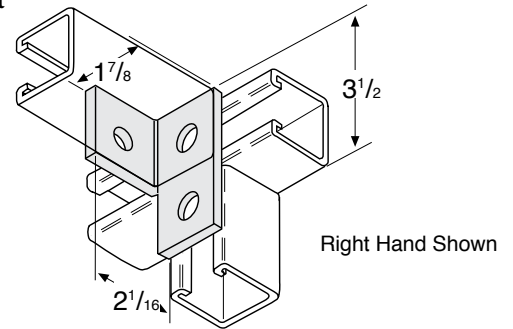


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5141	25	.53
5146	25	.53

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5148 3-Hole Offset Bent Tee

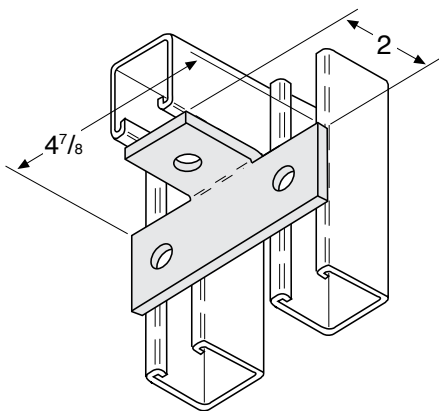


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5148	25	.71

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5150 4-Hole Offset Bent Tee

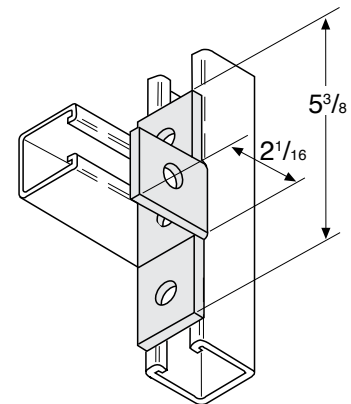


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5150	25	.77

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

# 90° FITTINGS

## 5155 & 5156 4-Hole Offset Bent Tee

Fig. 5155 Right  
Fig. 5156 Left

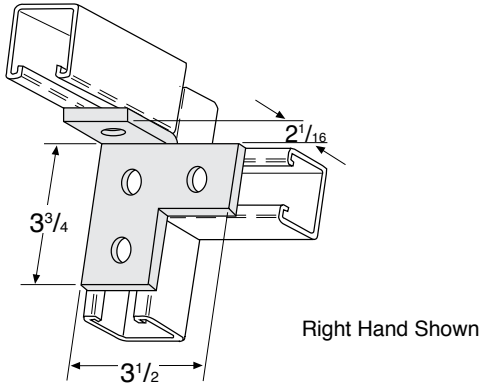


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5155	25	.76
5156	25	.76

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5160 5-Hole Offset Bent Tee

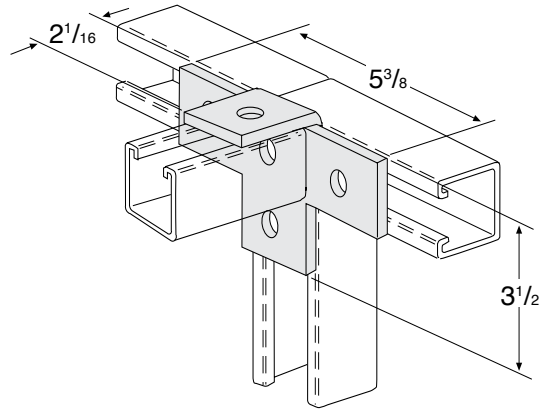


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5160	25	1.00

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5165 Universal Shelf Bracket

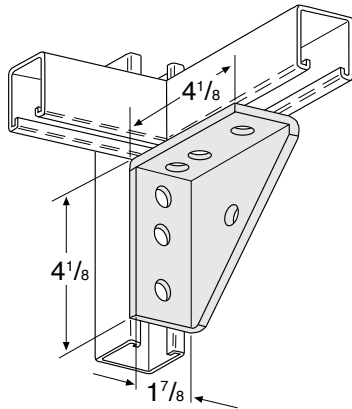


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5165	15	1.51

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5166 Universal Welded Shelf Bracket

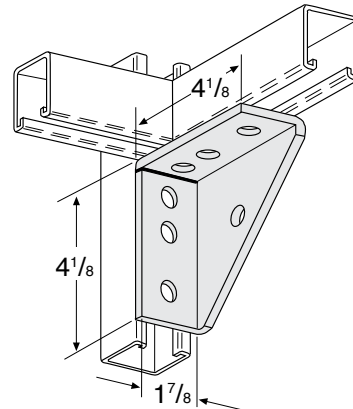


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5166	15	1.53

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

# 90° FITTINGS



## 5170 & 5175 4-Hole Corner Gusset

Fig. 5170 Right  
Fig. 5175 Left

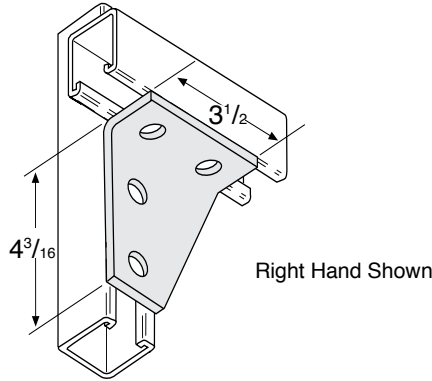


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5170	25	1.00
5175	25	1.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5171 & 5176 4-Hole Corner Gusset

Fig. 5171 Right  
Fig. 5176 Left

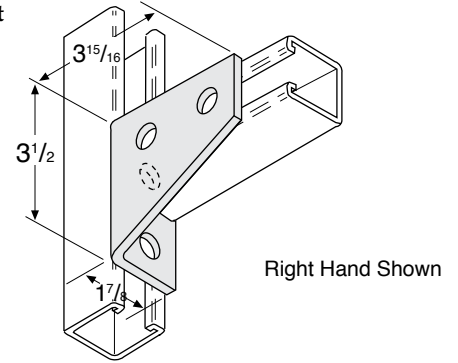


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5171	25	1.00
5176	25	1.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5180 3-Hole Gussetted Shelf Angle

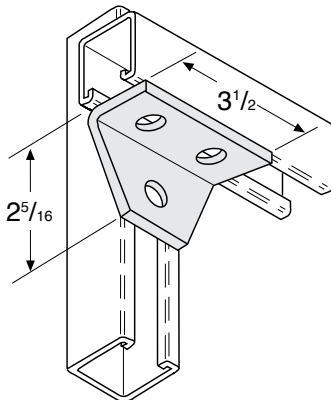


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5180	25	.72

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5185 4-Hole Gussetted Shelf Angle

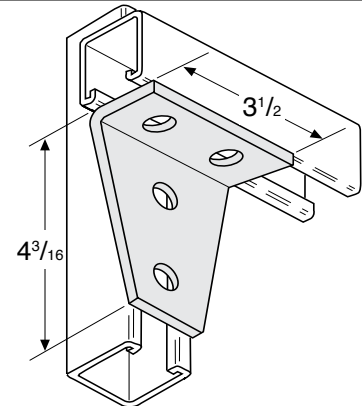


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5185	25	1.02

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

# 90° FITTINGS

## 5186 4-Hole Gussetted Shelf Angle

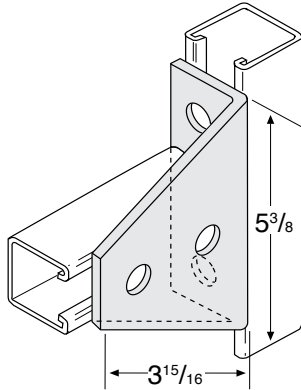


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5186	25	1.48

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5190 5-Hole Gussetted Shelf Angle

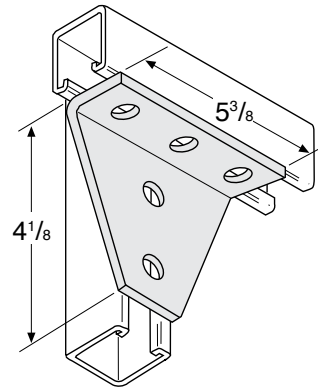


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5190	10	1.98

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5200 4-Hole Joint Angle Connector

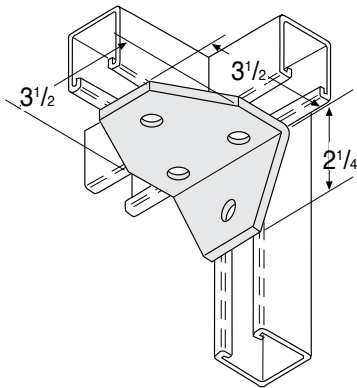


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5200	25	1.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5205 5-Hole Joint Angle Connector

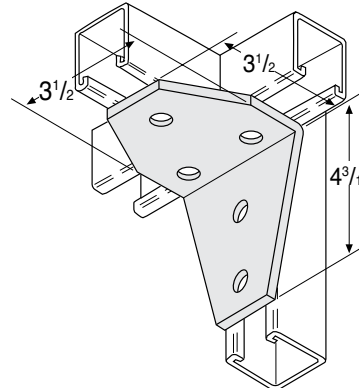
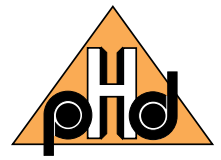


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5205	20	1.33

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

# 90° FITTINGS



## 5210 & 5211 6-Hole Gusseted Corner Connector

Fig. 5210 Right  
Fig. 5211 Left

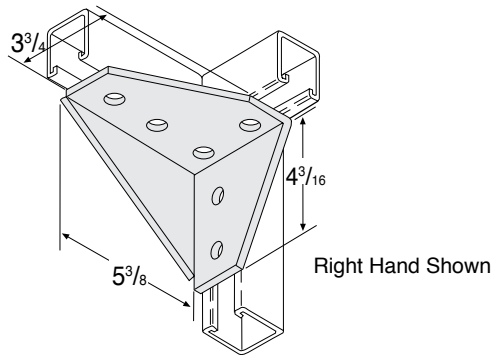


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5210	15	2.29
5211	15	2.29

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5220 2-Hole Adjustable Corner Angle

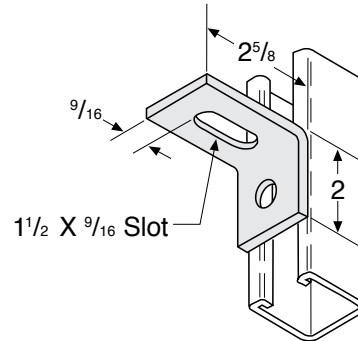


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5220	25	.42

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5221 2-Hole Adjustable Corner Angle

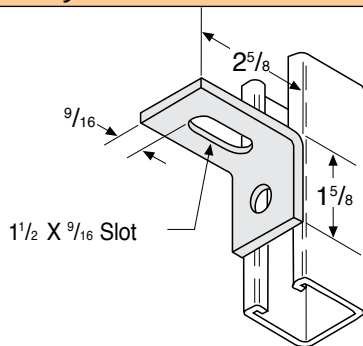


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5221	25	.36

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5225 2-Hole Adjustable Corner Angle

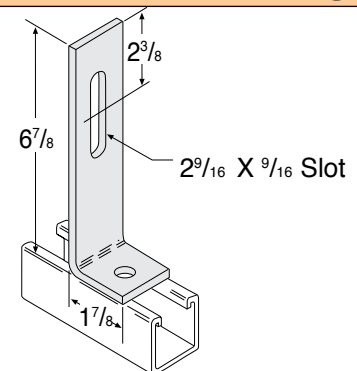


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5225	25	.85

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

# 90° FITTINGS

## 5226 2-Hole Adjustable Corner Angle

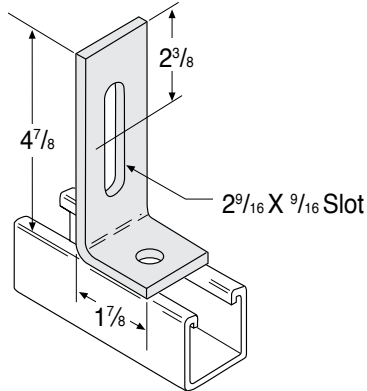


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5226	25	.58

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5228 2-Hole Adjustable Corner Angle

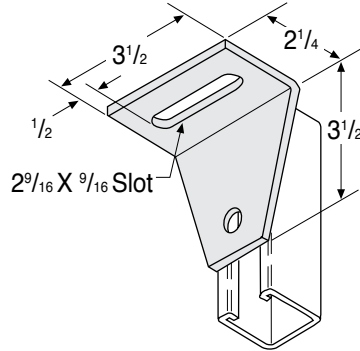


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5228	25	.97

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5230 3-Hole Adjustable Corner Angle

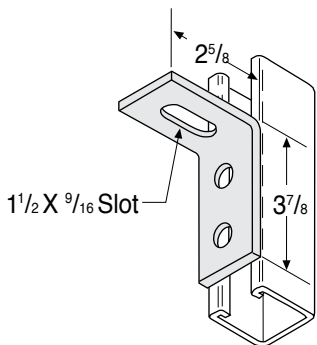


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5230	25	.59

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5250 4-Hole Adjustable Corner Angle

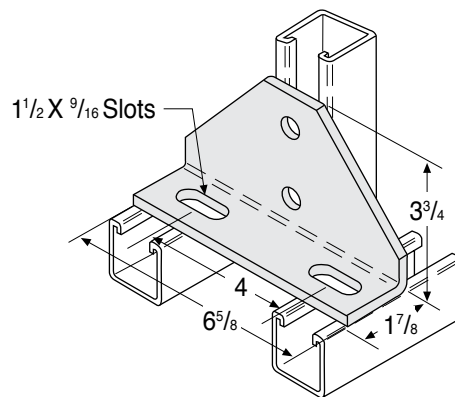


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5250	10	1.90

**MATERIAL:** 1/4

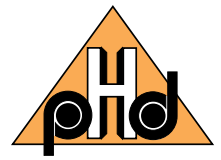
**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers



# 90° FITTINGS



## 5255

### 4-Hole Adjustable Corner Angle

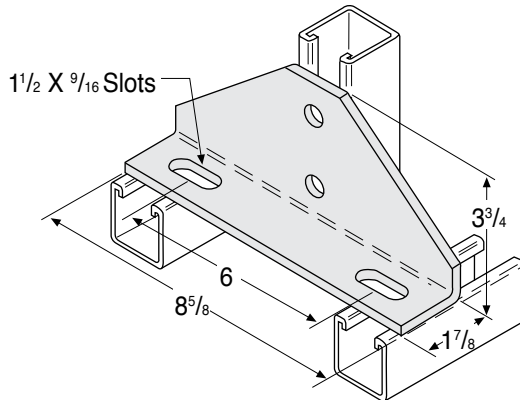


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5255	10	2.56

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5260

### 2-Hole Tapped Corner Angle

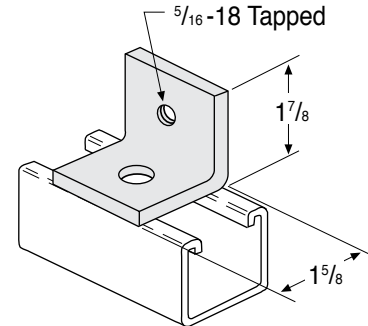


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5260	50	.33

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5270

### 2-Hole Bus Duct Angle

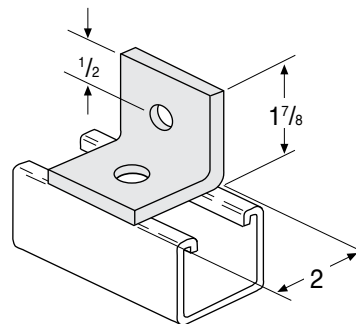


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5270	50	.37

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.



# ANGLE FITTINGS

## 5301-5315

### 2-Hole Open Angle Connector

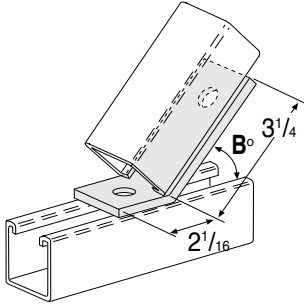


Fig. Number	Angle B°	Std. Package	Wt. Each (in Lbs.)
5301	7 1/2	25	.58
5302	15	25	.58
5303	22 1/2	25	.58
5304	30	25	.58
5306	37 1/2	25	.58
5307	52 1/2	25	.58
5308	60	25	.58
5309	67 1/2	25	.58
5310	75	25	.58
5311	82 1/2	25	.58
5315	45	25	.58

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and angle "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5340-5350

### 4-Hole Open Angle Connector

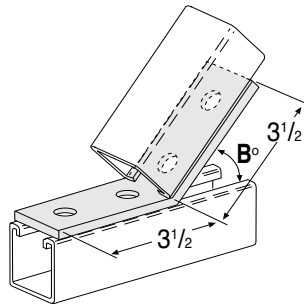


Fig. Number	Angle B°	Std. Package	Wt. Each (in Lbs.)
5340	7 1/2	25	.78
5341	15	25	.78
5342	22 1/2	25	.78
5343	30	25	.78
5344	37 1/2	25	.78
5345	45	25	.78
5346	52 1/2	25	.78
5347	60	25	.78
5348	67 1/2	25	.78
5349	75	25	.78
5350	82 1/2	25	.78

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and angle "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

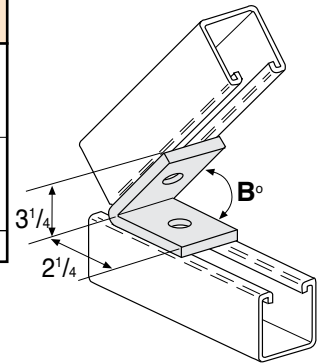
# ANGLE FITTINGS



## 2-Hole Closed Angle Connector

**5360-5366**

Fig. Number	Angle B°	Std. Package	Wt. Each (in Lbs.)
5360	37½	25	.58
5361	45	25	.58
5362	52½	25	.58
5363	60	25	.58
5364	67½	25	.58
5365	75	25	.58
5366	82½	25	.58



Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

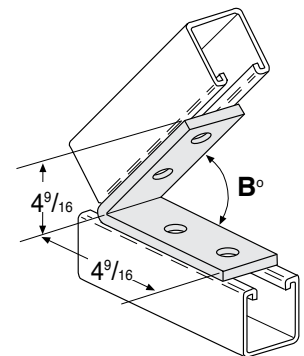
**ORDERING:** Specify figure number and angle "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 4-Hole Closed Angle Connector

**5370-5376**

Fig. Number	Angle B°	Std. Package	Wt. Each (in Lbs.)
5370	37½	25	.95
5371	45	25	.95
5372	52½	25	.95
5373	60	25	.95
5374	67½	25	.95
5375	75	25	.95
5376	82½	25	.95



Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and angle "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5410-5412

### 2-Hole 45° Knee Brace

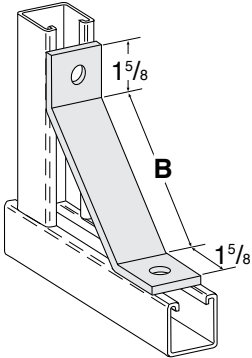


Fig. Number	Length B	Std. Package	Max Rec. Load (in Lbs.)	Wt. Each (in Lbs.)
5410	12	15	1020	1.60
5411	16	Bulk	530	2.18
5412	18	Bulk	450	2.80

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5420-5427

### 2-Hole 45° Tubing Knee Brace

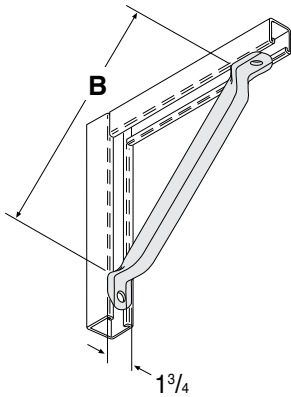


Fig. Number	Length B	Std. Package	Max Rec. Load (in Lbs.)	Wt. Each (in Lbs.)
5420	18	Bulk	1500	1.45
5421	24	Bulk	1500	1.86
5422	30	Bulk	1500	2.25
5423	36	Bulk	1500	2.66
5424	42	Bulk	1230	3.07
5425	48	Bulk	940	3.48
5426	54	Bulk	740	3.89
5427	60	Bulk	600	4.30

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5430-5440

### 2-Hole Straight Tubing Brace

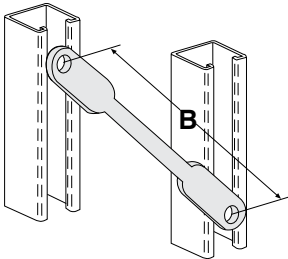


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5430	18	Bulk	1.33
5431	24	Bulk	1.74
5432	30	Bulk	2.15
5433	36	Bulk	2.56
5434	42	Bulk	2.95
5435	48	Bulk	3.35
5436	54	Bulk	3.80
5437	60	Bulk	4.20
5438	72	Bulk	5.00
5439	84	Bulk	5.85
5440	96	Bulk	6.70

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

# "U" FITTINGS



## 5501 3-Hole "U" Support

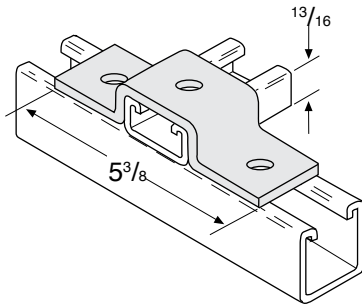


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5501	25	.66

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5503 5-Hole "U" Support

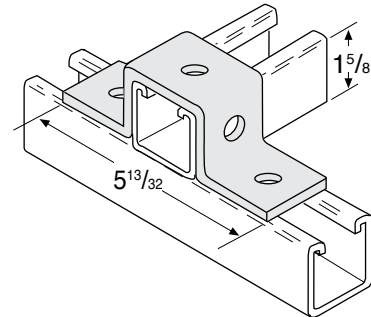


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5503	25	.85

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5505 3-Hole "U" Support

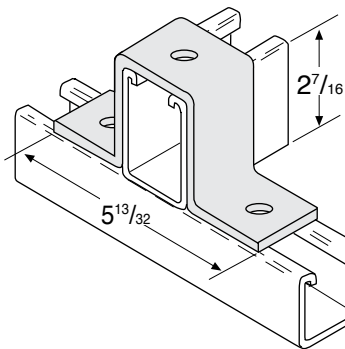


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5505	25	1.08

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5507 3-Hole "U" Support

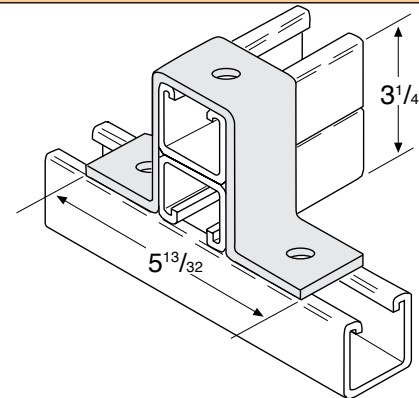


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5507	10	1.25

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

# "U" FITTINGS

## 5509 3-Hole "U" Support

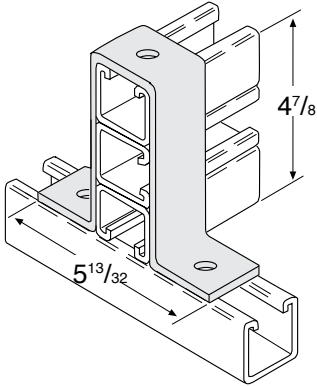


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5509	10	1.57

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5511 3-Hole "U" Support

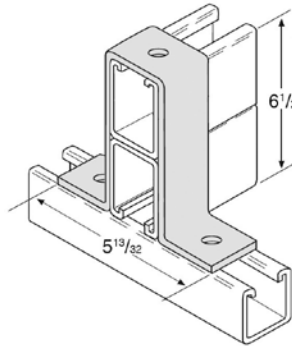


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5511	10	1.25

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.  
**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5513 3-Hole "U" Support

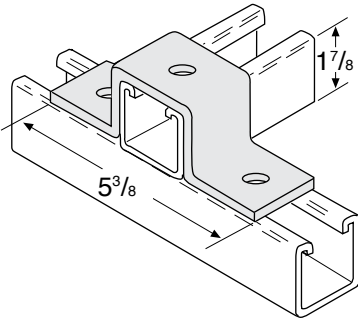


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5513	25	.95

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.  
**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5521 6-Hole "U" Support

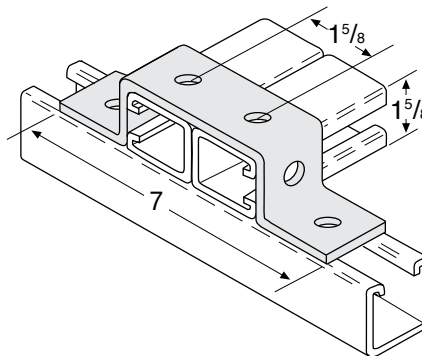


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5521	10	1.04

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.  
**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

# "U" FITTINGS



## 5530-5532 Slotted 3-Hole "U" Support

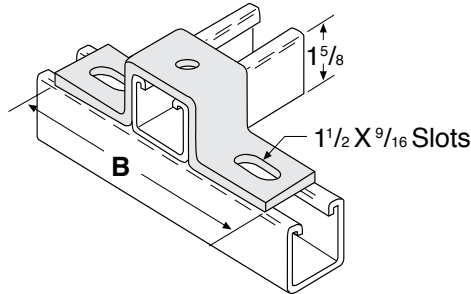


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5530	7 1/4	10	.96
5531	8 1/2	10	1.11
5532	10 3/8	10	1.29

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 5541 1 Stud Ring Connector

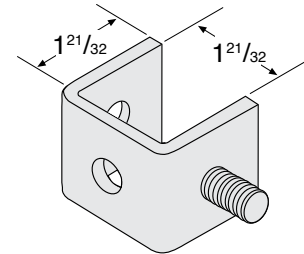


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5541	25	.53

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 5542 2 Stud Ring Connector

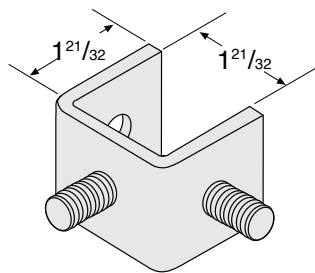


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5542	25	.59

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 5543 2 Stud Ring Connector

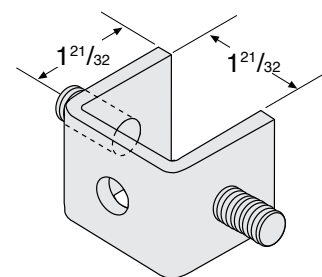


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5543	25	.59

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

# "Z" FITTINGS

## 5550 2-Hole Offset "Z" Support

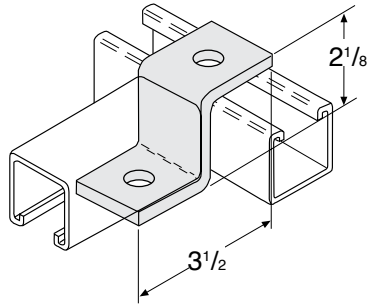


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5550	25	.55

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5551 2-Hole "Z" Support For # 1200 Strut

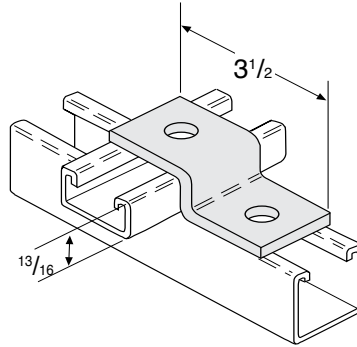


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5551	50	.47

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5552 3-Hole "Z" Support For # 1500 Strut

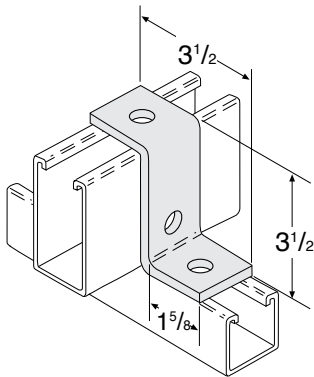


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5552	25	.70

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5553 2-Hole "Z" Support For # 1600 Strut

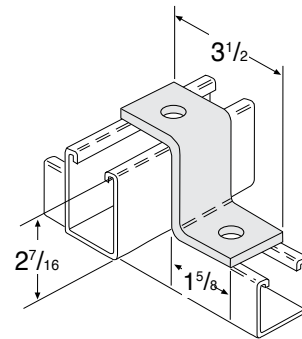


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5553	25	.67

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end



# "Z" FITTINGS



## 5554 3-Hole "Z" Support For # 1000 Strut

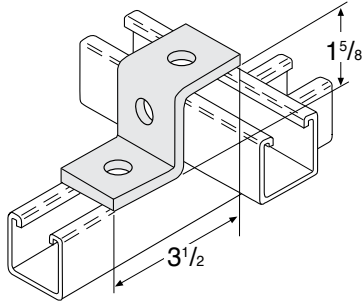


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5554	50	.51

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5556 2-Hole Offset "Z" Support

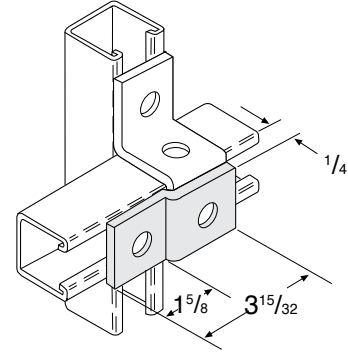


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5556	25	.38

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5558 2-Hole "Z" Support

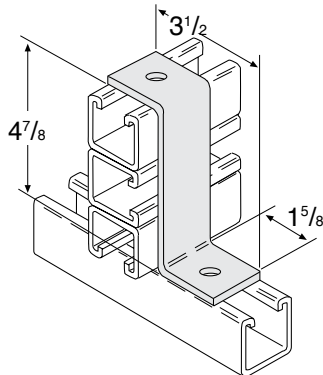


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5558	25	.90

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5560-5562 2 Hole "Z" Bus Duct Connection

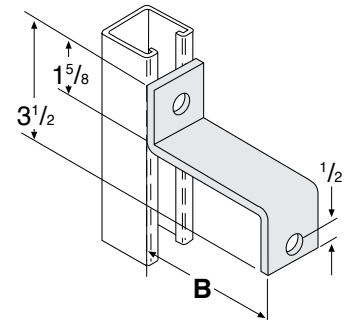


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5560	4 3/4	25	.89
5561	3 25/32	25	.78
5562	2 13/32	25	.62

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

# "Z" FITTINGS

## 5565 Tapped "Z" Support

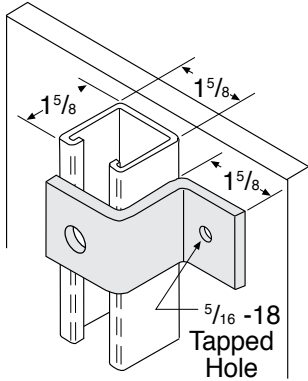


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5565	25	.51

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5570-5574 2-Hole "Z" Support

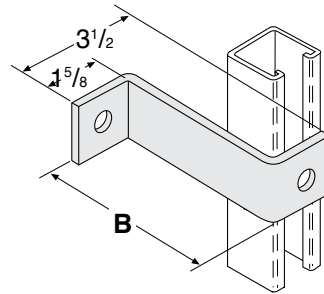


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5570	4	25	.77
5571	5	25	.95
5572	6	25	.98
5573	7	25	1.05
5574	8	25	1.20

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5575 3-Hole Sheath Corner Connection

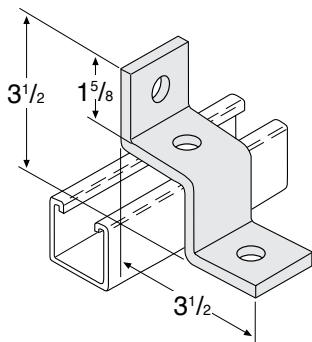


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5575	25	.68

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5580 Channel Hanger For # 1000 Strut

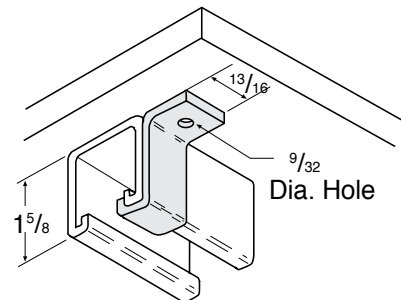


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5580	100	.09

**MATERIAL:** 11 Ga.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

# "Z" FITTINGS



## 5581 Channel Hanger For # 1200 Strut

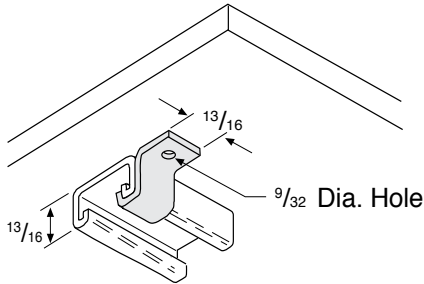


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5581	100	.07

**MATERIAL:** 11 Ga.  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

## 5582 Channel Hanger For # 1500 Strut

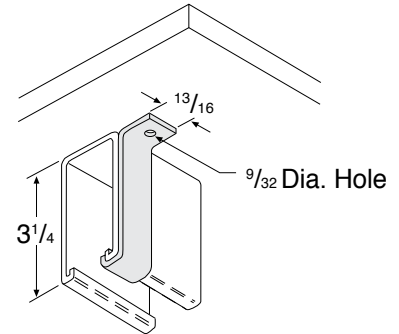


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5582	100	.13

**MATERIAL:** 11 Ga.  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

## 5583 Channel Hanger For # 1600 Strut

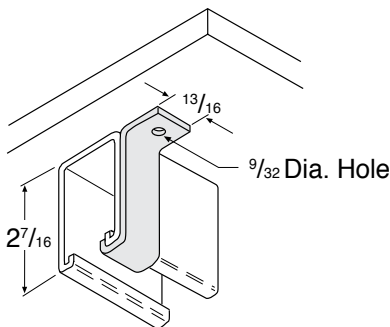


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5583	100	.11

**MATERIAL:** 11 Ga.  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

## 5590 Adjustable Offset Gusseted "Z" Support

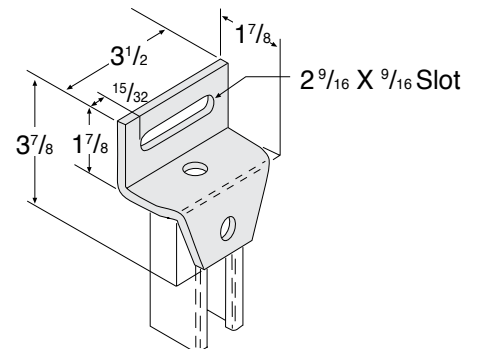


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5590	10	1.02

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

# WING FITTINGS

## 5600 & 5601 3-Hole Corner Connector

Fig. 5600 Right  
Fig. 5601 Left

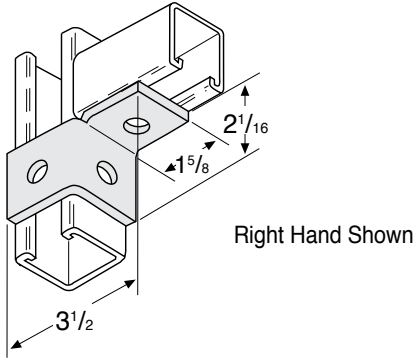


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5600	25	.60
5601	25	.60

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5605 & 5606 4-Hole Corner Connector

Fig. 5605 Right  
Fig. 5606 Left

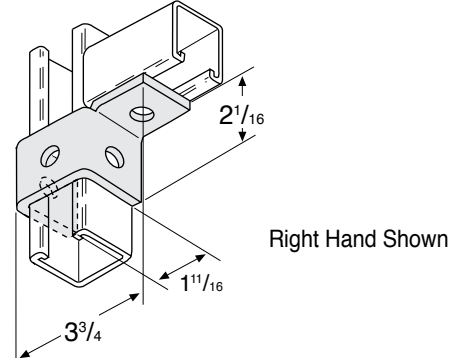


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5605	25	.70
5606	25	.70

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5610 & 5611 5-Hole Corner Connector

Fig. 5610 Right  
Fig. 5611 Left

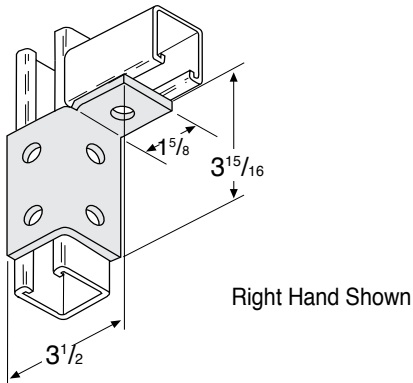


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5610	25	1.00
5611	25	1.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5615 & 5616 6-Hole Corner Connector

Fig. 5615 Right  
Fig. 5616 Left

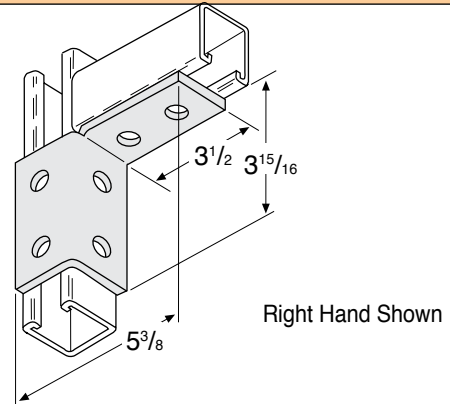


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5615	25	1.20
5616	25	1.20

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

# WING FITTINGS



## 5620 4-Hole Double Corner Connector

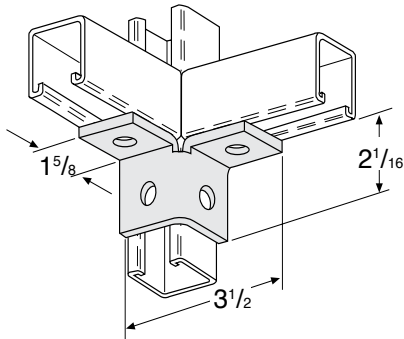


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5620	25	.76

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5625 6-Hole Double Corner Connector

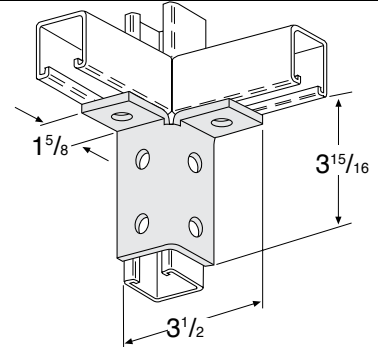


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5625	25	1.15

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5630 8-Hole Double Corner Connector

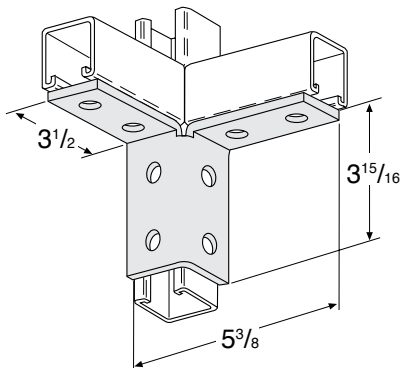


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5630	10	1.55

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5635 5-Hole Double Wing Connector

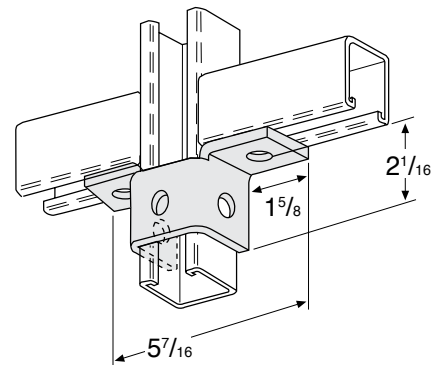


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5635	15	.93

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

# WING FITTINGS

## 5640 8-Hole Double Wing Connector

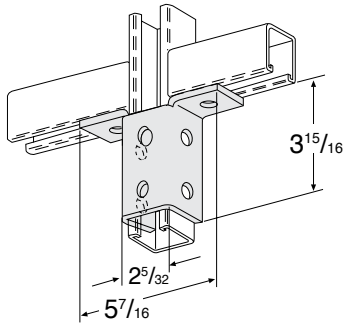


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5640	10	1.77

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5645 10-Hole Double Wing Connector

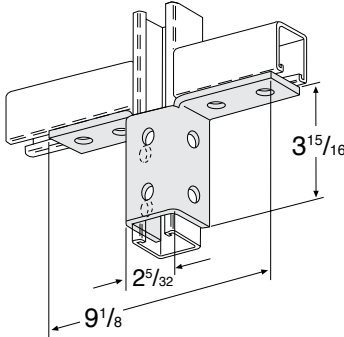


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5645	10	2.02

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5650 6-Hole Triple Wing Connector

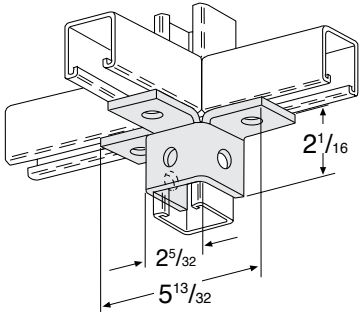


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5650	10	1.07

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5655 12-Hole Triple Wing Connector

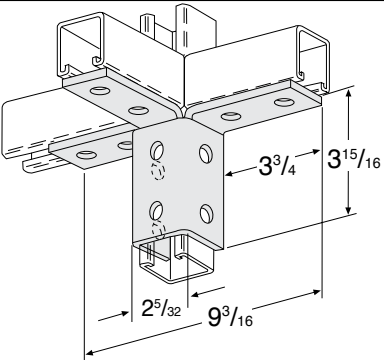


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5655	10	2.39

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5660 9-Hole Triple Wing Connector

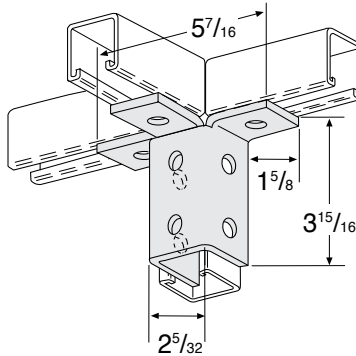


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5660	10	1.93

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5665 8-Hole Gussetted Double Corner Connector

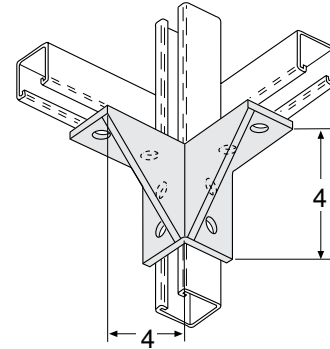


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5665	5	2.17

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5675 10-Hole Gussetted Double Corner Connector

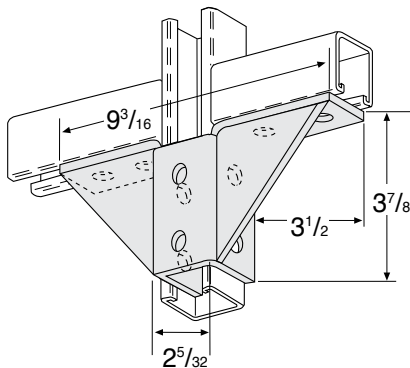


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5675	5	2.85

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 5685 8-Hole Gussetted Double Corner Connector

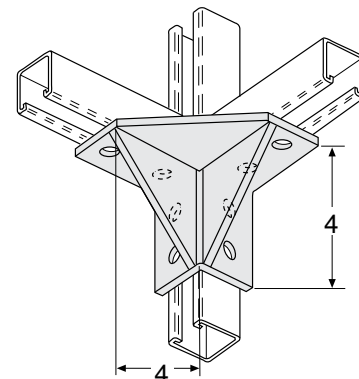


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5685	5	4.70

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers



# CLEVIS FITTINGS

## 5700-5704 1-Hole U Washer

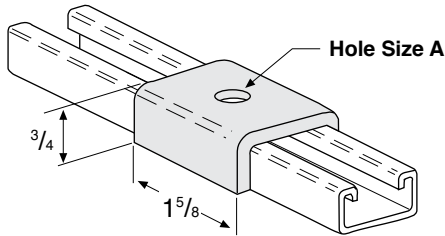


Fig. Number	Size	Hole Size A	Std. Package	Wt. Each (in Lbs.)
5700	1/4	5/16	100	.18
5701	3/8	7/16	100	.18
5702	1/2	9/16	100	.18
5703	5/8	11/16	100	.18
5704	3/4	13/16	100	.17

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 10 gauge

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 5705 2-Hole Splice Clevis For # 1200 & # 1300 Strut

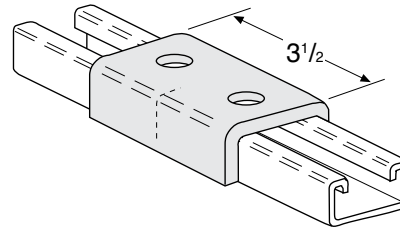


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5705	20	.78

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5710 3-Hole Splice Clevis For # 1200 & # 1300 Strut

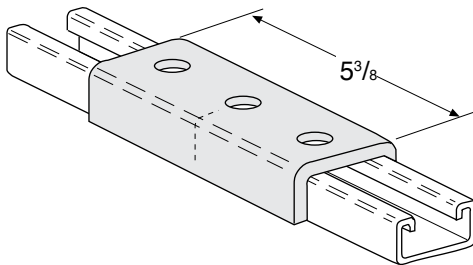


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5710	20	1.25

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5715 4-Hole Splice Clevis For # 1200 & # 1300 Strut

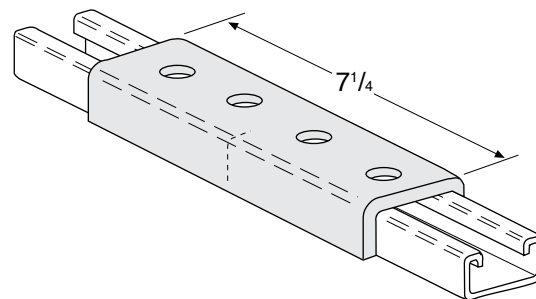


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5715	20	1.75

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers



# CLEVIS FITTINGS



## 5720

### 2-Hole Splice Clevis For # 1000 & # 1100 Strut

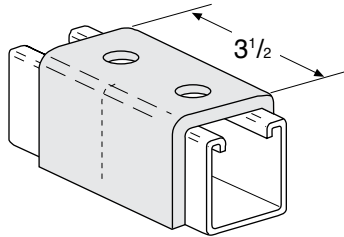


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5720	20	1.19

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5730

### 4-Hole Splice Clevis For # 1000 & # 1100 Strut

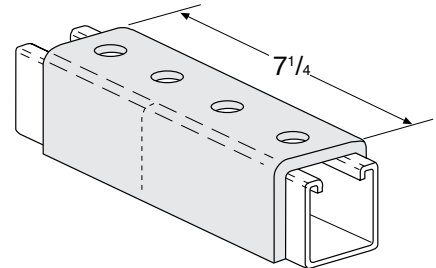


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5730	10	2.68

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 1 7/8 on centers

## 5750-5752 2-Hole Clevis

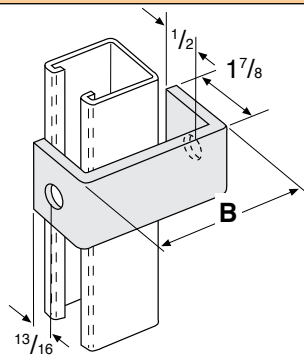


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5750	2 <sup>13/32</sup>	25	.57
5751	3 <sup>25/32</sup>	25	.73
5752	4 <sup>3/4</sup>	25	.84

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5760-5764 2-Hole Clevis

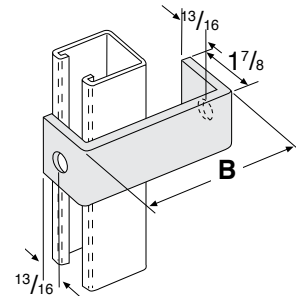


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5760	4	25	.78
5761	5	25	.89
5762	6	25	1.07
5763	7	25	1.12
5764	8	25	1.24

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

# CLEVIS FITTINGS

## 5770 3-Hole Clevis

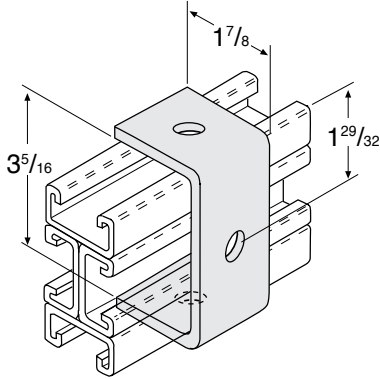


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5770	25	.75

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:**  $\frac{1}{4}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end

## 5775 3-Hole Suspension Clevis

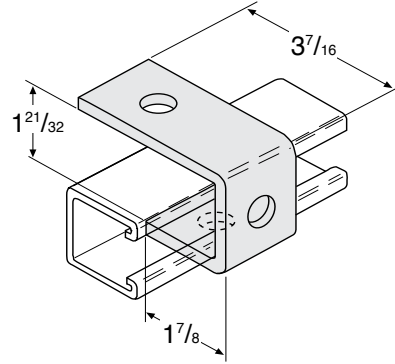


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5775	25	.75

**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end

## 5780 4-Hole Suspension Clevis

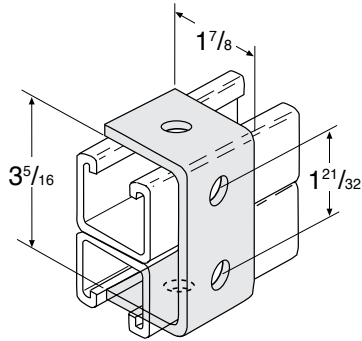


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5780	20	.71

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

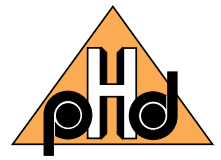
**MATERIAL:**  $\frac{1}{4} \times 1\frac{5}{8}$

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:**  $\frac{9}{16}$  dia. •  $\frac{13}{16}$  from end

# MISCELLANEOUS FITTINGS



## 5801 & 5802 Single Pipe Axle Support for 1 1/4" Pipe

Fig. 5801 Right  
Fig. 5802 Left

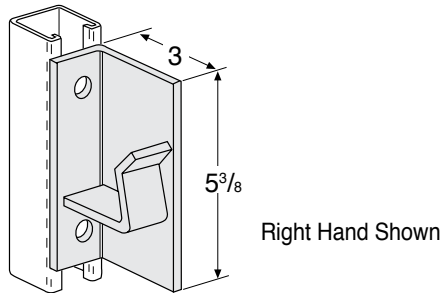


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5801	10	2.25
5802	10	2.25

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5803 & 5804 Single Pipe Axle Support for 2" Pipe

Fig. 5803 Right  
Fig. 5804 Left

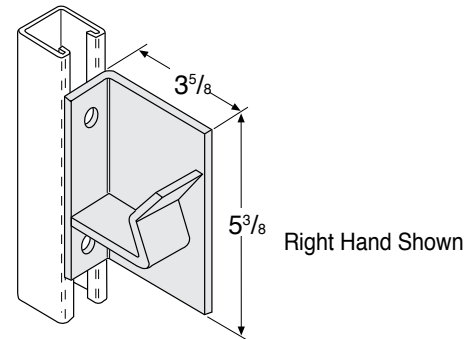


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5803	10	2.46
5804	10	2.46

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5821 Pipe Support Bracket

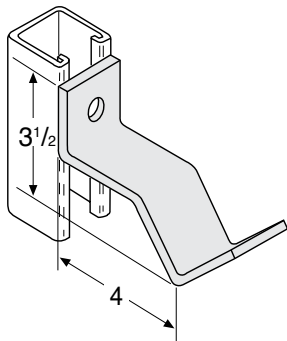


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5821	20	.88

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5825-5827 Series Ladder Rungs

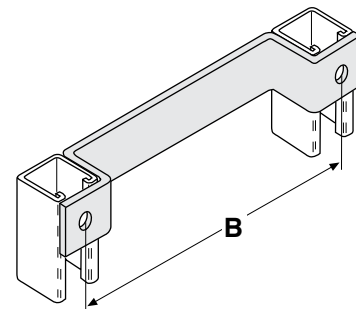


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
5825	12	10	1.76
5826	15	10	2.02
5827	18	bulk	2.34

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5830-5834 Wall Ladder Brackets

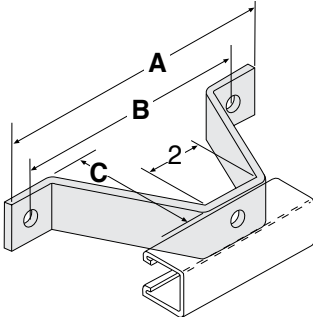


Fig. Number	A	Length B	C	Std. Package	Wt. Each (in Lbs.)
5830	7 <sup>5</sup> / <sub>8</sub>	6	2 <sup>3</sup> / <sub>8</sub>	10	1.10
5831	9 <sup>5</sup> / <sub>8</sub>	8	4 <sup>3</sup> / <sub>8</sub>	10	1.64
5832	11 <sup>5</sup> / <sub>8</sub>	10	6 <sup>3</sup> / <sub>8</sub>	10	2.00
5833	13 <sup>5</sup> / <sub>8</sub>	12	8 <sup>3</sup> / <sub>8</sub>	10	2.53
5834	15 <sup>5</sup> / <sub>8</sub>	14	10 <sup>3</sup> / <sub>8</sub>	bulk	3.18

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5835-5837 Pipe Coupling Fitting

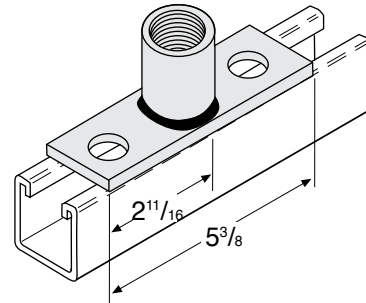


Fig. Number	Pipe Size	Std. Package	Wt. Each (in Lbs.)
5835	1/2	10	.77
5836	3/4	10	.84
5837	1	10	1.05

**MATERIAL:** 1/4 X 1<sup>5</sup>/<sub>8</sub>

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and pipe size.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 5840 Trolley Beam Support

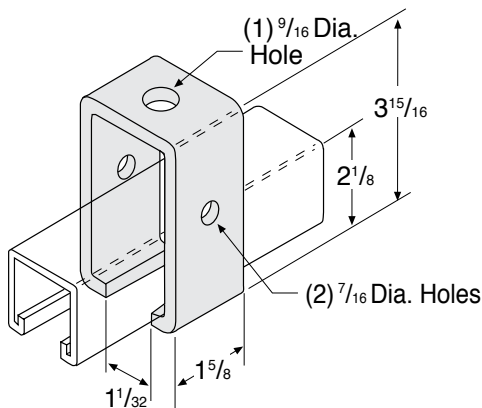


Fig. Number	Std. Package	Wt. Each (in Lbs.)	Design Load (in Lbs.)
5840	25	1.02	1200

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 5845 Trolley Beam Joint Support

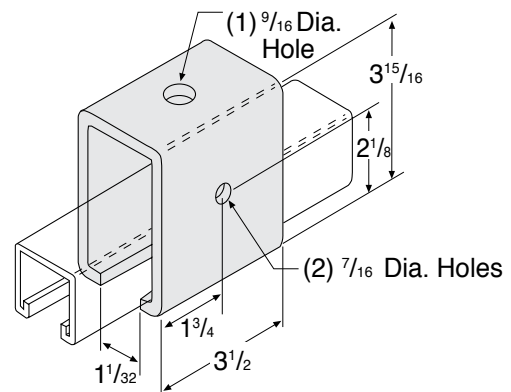


Fig. Number	Std. Package	Wt. Each (in Lbs.)	Design Load (in Lbs.)
5845	15	2.20	2500

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 5860 45° Stair Support

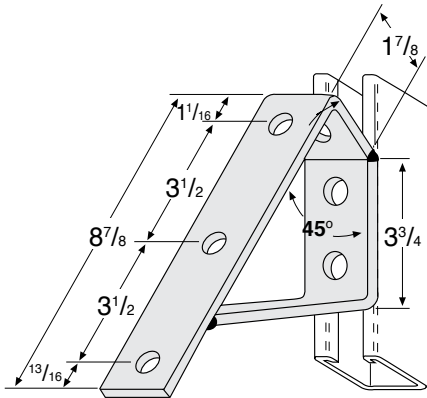


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5860	10	2.20

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 5861 37 1/2° Stair Support

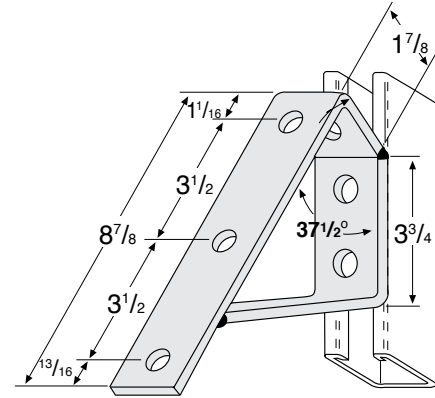


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5861	10	2.06

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4 X 1 5/8

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 5870 4-Bearing Trolley Assembly

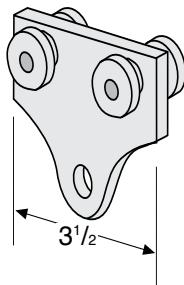


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5870	10	1.10
FPM	RPM	Design Load (in Lbs.)
180	600	300
90	300	450
30	100	600

Design Load based on use with PHD 1000 Series Strut Channel

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 5875 2 Bearing Trolley Assembly

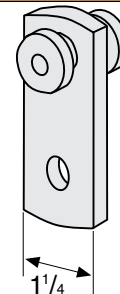


Fig. Number	Std. Package	Wt. Each (in Lbs.)
5875	25	.48
FPM	RPM	Design Load (in Lbs.)
180	600	150
90	300	225
30	100	437

Design Load based on use with PHD 1000 Series Strut Channel

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

# POST BASES

## 6005 Post Base for 1<sup>5</sup>/<sub>8</sub> Strut

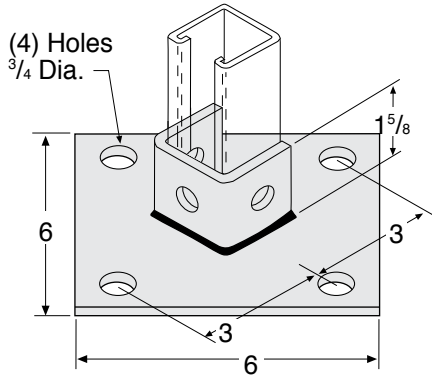


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6005	10	3.14

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 6010 Post Base for 1<sup>5</sup>/<sub>8</sub> Strut

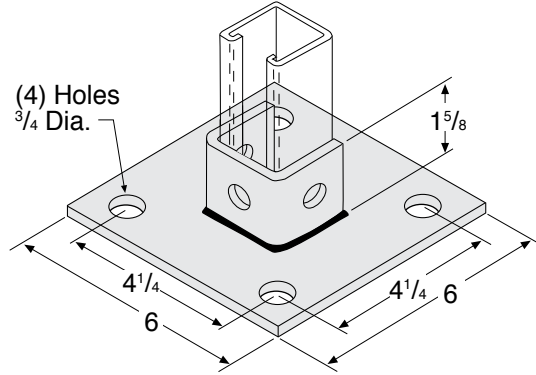


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6010	10	3.14

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 6015 Post Base for 1<sup>5</sup>/<sub>8</sub> Strut

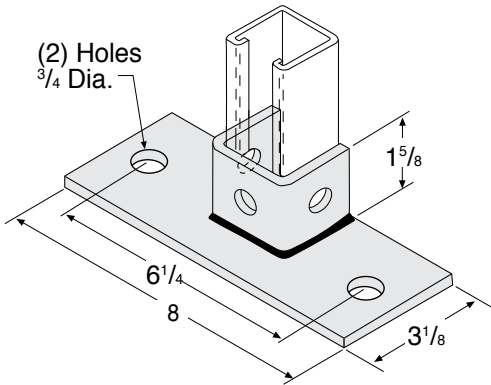


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6015	10	2.30

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 6020 Post Base for 1<sup>5</sup>/<sub>8</sub> Strut

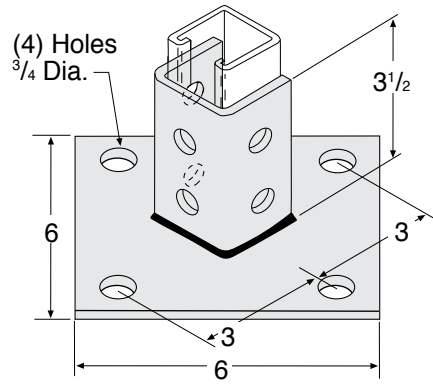


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6020	10	3.92

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

# POST BASES



## 6025

### Post Base for 1<sup>5</sup>/<sub>8</sub> Strut

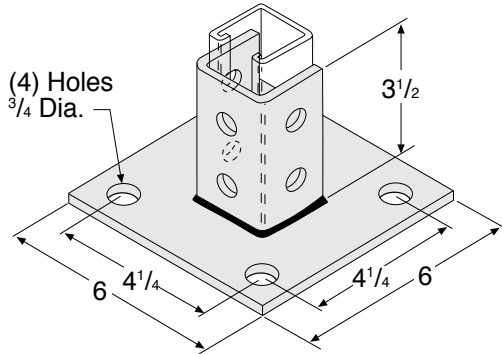


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6025	10	3.92

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 6030

### Post Base for 1<sup>5</sup>/<sub>8</sub> Strut

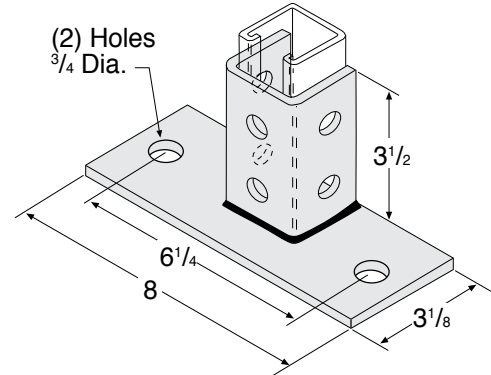


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6030	10	3.12

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end • 17/8 on centers

## 6035

### Post Base for Double 1<sup>5</sup>/<sub>8</sub> Strut

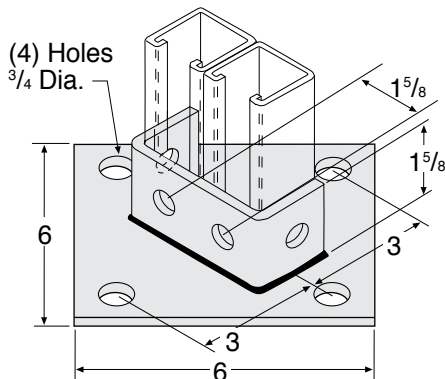


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6035	10	3.30

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 6040

### Post Base for Double 1<sup>5</sup>/<sub>8</sub> Strut

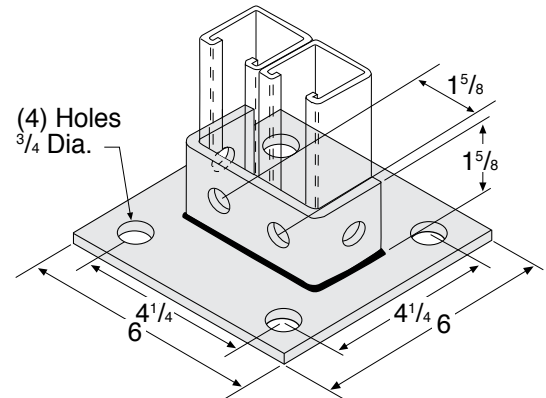


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6040	10	3.30

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

# POST BASES

## 6045 Post Base for Double 1<sup>5</sup>/<sub>8</sub> Strut

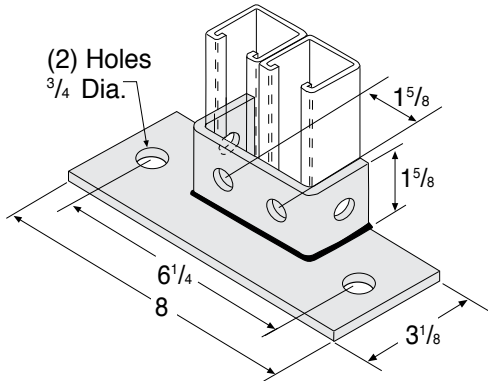


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6045	10	2.50

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 6050 Post Base for Double 1<sup>5</sup>/<sub>8</sub> Strut

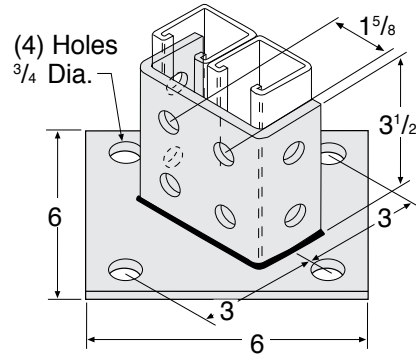


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6050	10	4.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 6060 Post Base for Double 1<sup>5</sup>/<sub>8</sub> Strut

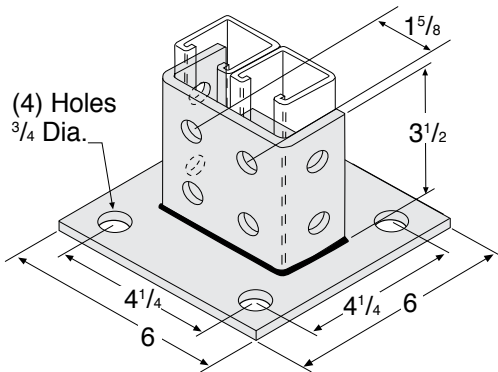


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6060	10	4.00

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end

## 6065 Post Base for Double 1<sup>5</sup>/<sub>8</sub> Strut

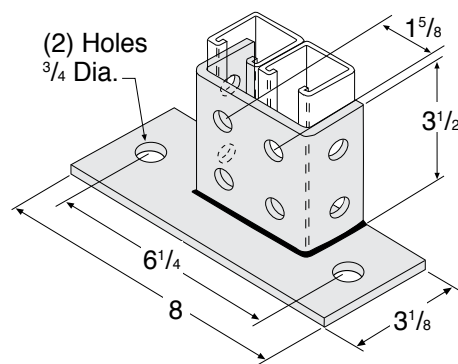


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6065	10	3.20

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.  
**HOLE DIM:** 9/16 dia. • 13/16 from end



# POST BASES



## 6080

### Post Base for 1<sup>5</sup>/<sub>8</sub> Back to Back Strut

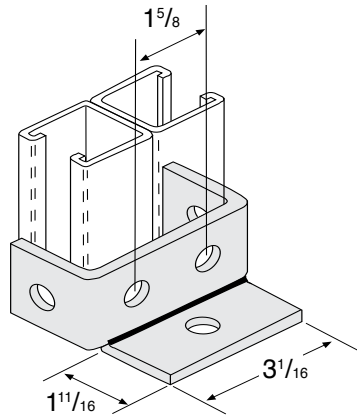


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6080	10	1.30

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia. • 13/16 from end

## 6095

### Post Base for 1<sup>5</sup>/<sub>8</sub> Strut

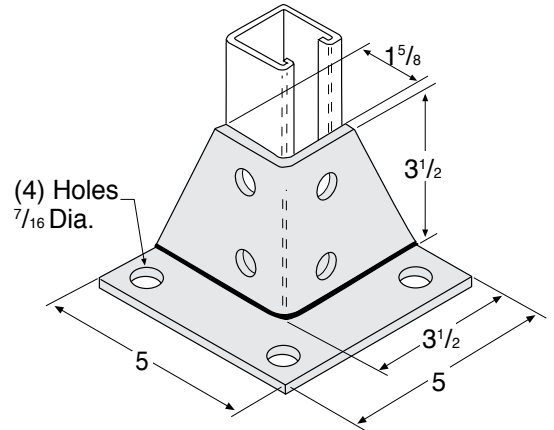


Fig. Number	Std. Package	Wt. Each (in Lbs.)
6095	10	2.97

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 6101-6122 Shelf Bracket

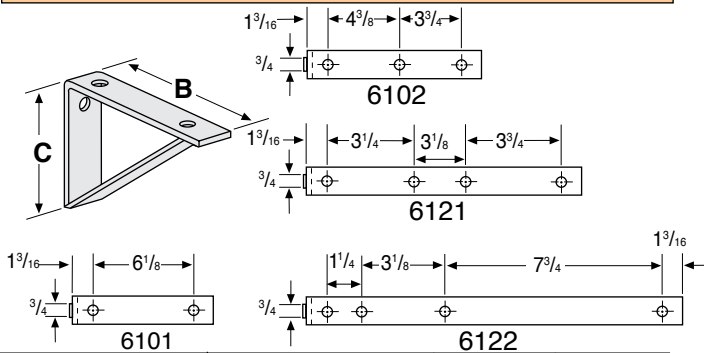


Fig. Number	Length B	C	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6101	8 <sup>7</sup> / <sub>8</sub>	4	800	10	1.68
6102	10 <sup>1</sup> / <sub>2</sub>	4	800	10	2.02
6121	12 <sup>1</sup> / <sub>2</sub>	6	900	Bulk	2.58
6122	14 <sup>1</sup> / <sub>2</sub>	6	900	Bulk	2.95

Note: Load based on use with 12 ga. strut.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

MATERIAL: <sup>1</sup>/<sub>4</sub>

FINISH: Electro-galvanized

ORDERING: Specify figure number and length "B".

## 6123-6125 Shelf Bracket

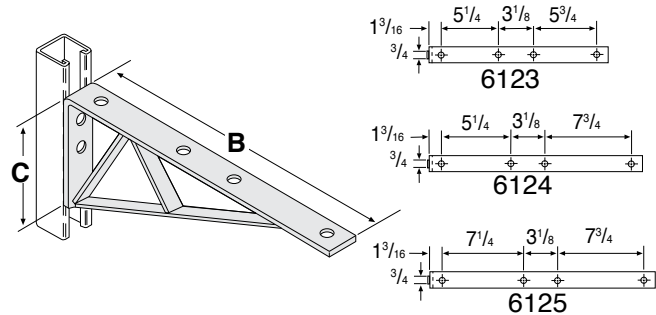


Fig. Number	Length B	C	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6123	16 <sup>1</sup> / <sub>2</sub>	6	1200	Bulk	4.05
6124	18 <sup>1</sup> / <sub>2</sub>	6	1070	Bulk	4.68
6125	20 <sup>1</sup> / <sub>2</sub>	6	600	Bulk	4.90

Note: Load based on use with 12 ga. strut. Bulk packaging.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

MATERIAL: <sup>1</sup>/<sub>4</sub>

FINISH: Electro-galvanized

ORDERING: Specify figure number and length "B".

## 6130-6135 Single Channel Bracket

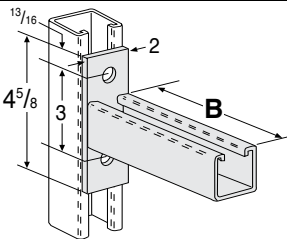


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6130	6	1200	10	1.85
6131	9	900	10	1.95
6132	12	600	10	2.93
6133	14	500	Bulk	3.20
6134	18	400	Bulk	4.01
6135	24	300	Bulk	5.09

Note: Load based on use with 12 ga. PHD 1000 series strut channel.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

FINISH: Electro-galvanized

ORDERING: Specify figure number and length "B".

HOLE DIM: <sup>9</sup>/<sub>16</sub> dia.

## 6140-6144 Double Channel Bracket

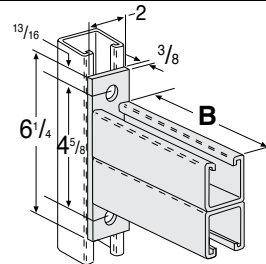


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6140	12	2000	Bulk	5.05
6141	18	1300	Bulk	7.10
6142	24	1000	Bulk	9.15
6143	30	800	Bulk	11.20
6144	36	650	Bulk	13.25

Note: Load based on use with 12 ga. PHD 1000 series strut channel.

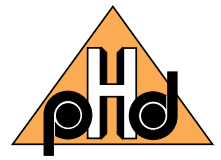
Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

FINISH: Electro-galvanized

ORDERING: Specify figure number and length "B".

HOLE DIM: <sup>9</sup>/<sub>16</sub> dia.

# BRACKETS



## 6150-6152 Braced Single Bracket

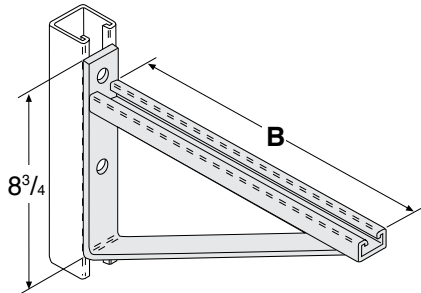


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6150	12	1600	15	3.88
6151	18	850	Bulk	5.06
6152	24	850	Bulk	7.20

PHD 1400 Series 1" profile 12 ga. strut channel used to fabricate this product.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia.

## 6202-6208 Interlocking Channel Bracket (Slot Up)

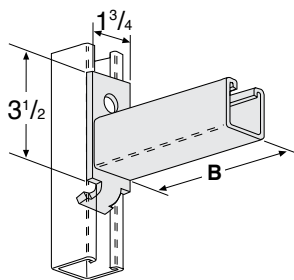


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6202	6	1200	10	1.50
6204	12	600	10	2.50
6206	18	400	Bulk	3.50
6208	24	300	Bulk	4.50

Note: Load based on use with 12 ga. PHD 1000 series strut channel.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and length "B".

**HOLE DIM:** 9/16 dia.

## 6160-6172 Braced Single Bracket

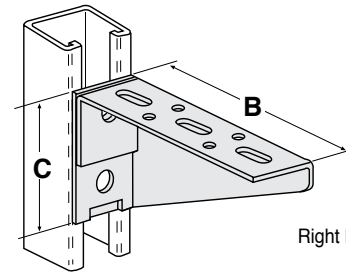


Fig. Number	Length B	C	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6160	24	6 7/16	225	Bulk	3.70
6161	26	6 15/16	225	Bulk	4.25
6162	28	7 7/16	225	Bulk	4.80
6163	30	7 15/16	225	Bulk	5.20
6164	12	3 7/16	275	10	1.43
6165	14	3 15/16	275	Bulk	1.62
6166	16	4 7/16	275	Bulk	2.04
6167	18	4 15/16	275	Bulk	2.32
6168	20	5 7/16	250	Bulk	2.75
6169	22	5 15/16	250	Bulk	3.17
6170	6	1 15/16	275	10	.58
6171	8	2 7/16	275	10	.82
6172	10	2 15/16	275	10	1.03

Note: Load based on use with 12 ga. strut.

**MATERIAL:** 12 Ga.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number, R or L and length "B"

# BRACKETS

## 6212-6218 Interlocking Channel Bracket (Slot Down)

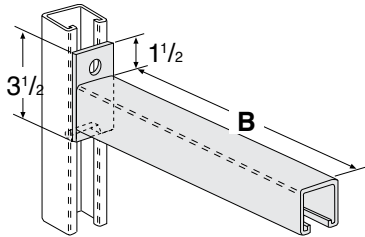


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6212	6	1200	10	1.50
6214	12	600	10	2.50
6216	18	400	Bulk	3.50
6218	24	300	Bulk	4.50

Note: Load based on use with 12 ga. PHD 1000 series strut channel.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number and length "B".  
**HOLE DIM:** 9/16 dia.

## 6222 & 6224 Wrap-Around Channel Bracket (Slot Up)

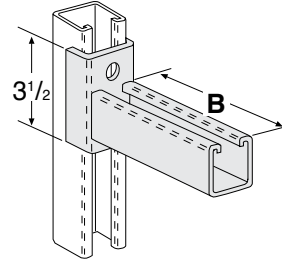


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6222	6	1600	10	1.90
6224	12	800	10	2.75

Note: Load based on use with 12 ga. PHD 1000 series strut channel.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number and length "B".  
**HOLE DIM:** 9/16 dia.

## 6232 & 6234 Wrap-Around Channel Bracket (Slot Down)

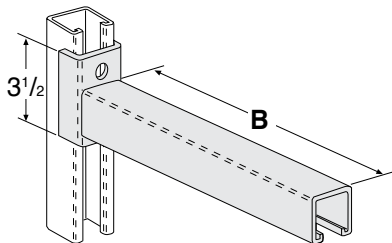


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6232	6	1600	10	1.90
6234	12	800	10	2.75

Note: Load based on use with 12 ga. PHD 1000 series strut channel.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number and length "B".  
**HOLE DIM:** 9/16 dia.

## 6246 & 6248 Wrap-Around Channel Bracket (Slot Up)

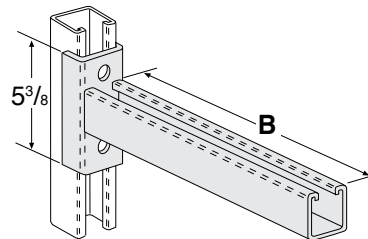


Fig. Number	Length B	Uniform Load (in Lbs.)	Std. Package	Wt. Each (in Lbs.)
6246	18	600	Bulk	4.30
6248	24	450	Bulk	5.10

Note: Load based on use with 12 ga. PHD 1000 series strut channel.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number and length "B".  
**HOLE DIM:** 9/16 dia.

# BRACKETS



## 6305

### Single Channel Bracket Support For 1001 & 1101 Strut

Note: Load is in "in.-lbs." and applies to fitting only, not strength of strut arm. Load rating is based on use with 12 gauge strut. If 14 gauge strut is used, load is reduced to 4400 in.-lbs.

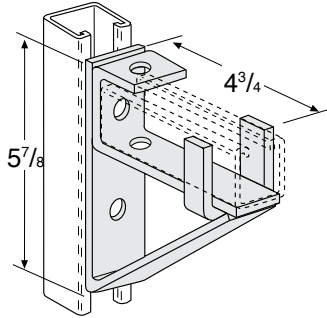


Fig. Number	Uniform Load in. - Lbs.	Std. Package	Wt. Each (in Lbs.)
6305	6300	10	2.10

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

## 6310

### Double Channel Bracket Support For 1001A & 1101A Strut

Note: Load is in "in.-lbs." and applies to fitting only, not strength of strut arm. Load rating is based on use with 12 gauge strut. If 14 gauge strut is used, load is reduced to 9100 in.-lbs.

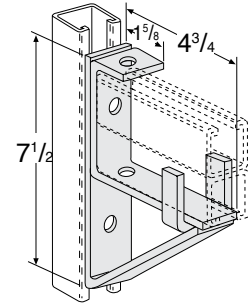


Fig. Number	Uniform Load in. - Lbs.	Std. Package	Wt. Each (in Lbs.)
6310	13000	10	2.66

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

**HOLE DIM:** 9/16 dia.

# BEAM CLAMPS

## 7001 & 7002 Heavy Duty Beam Clamp

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

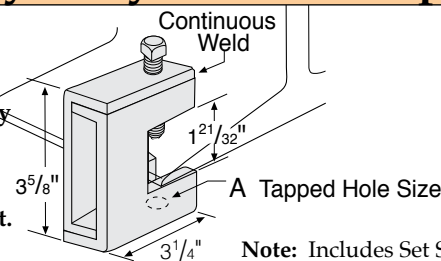
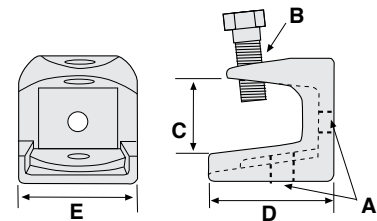


Fig. Number	A	Material Size	Set Screw	Max. Rec. Load/Lbs.	Std. Package	Wt. Each (in Lbs.)
7001	3/8	3/16	1/2 X 2	1300	10	1.56
7002	1/2	1/4	1/2 X 2	1900	10	2.01

For beams between 3/4" & 1 5/8" thick flanges

Fig. Number	Rod Size A	B	C	D	E	Max. Rec. Load/Lbs.	Max. Flange	Std. Package	Wt. Each (in Lbs.)
7005	1/4 - 20	5/16-18	1	1 1/4	1	150	3/4	100	.25
7006	3/8 - 16	5/16-18	1	1 1/4	1	150	3/4	100	.25
7007	3/8 - 16	1/2-13	1 3/8	2	2	350	1	10	.95
7008	1/2 - 13	1/2-13	1	2 1/2	2 5/8	1250	7/8	10	1.64

## 7005-7008 Beam Clamp



**MATERIAL:**

7001 & 7002 - Low carbon steel

7005-7008 - Malleable iron

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

# BEAM CLAMPS

## 7011 & 7012 "I" Beam Clamp

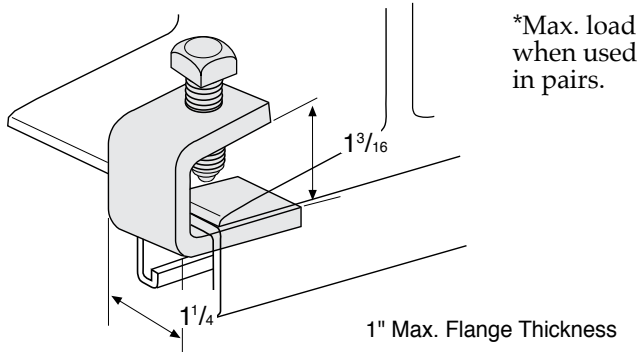


Fig. Number	Material Size	Set Screw	Std. Package	Max. Rec. Load/lbs.	Wt. Each (in Lbs.)
7011	1/4	3/8	50	900*	.26
7012	3/8	1/2	25	1800*	.64

**Note:** Includes Set Screw.  
**Available in stainless steel.** To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

## 7020 & 7025 "I" Beam Clamp

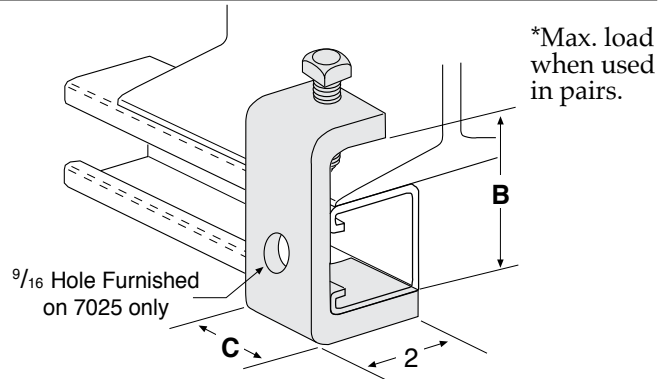


Fig. Number	B	C	Std. Package	Max. Rec. Load/lbs.	Wt. Each (in Lbs.)
7020	2	1 1/4	25	900*	.72
7025	2 1/2	1 1/2	25	1000*	.94

**Note:** Includes Set Screw.  
**Available in stainless steel.** To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 3/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

## 7030 "Z" Beam Clamp

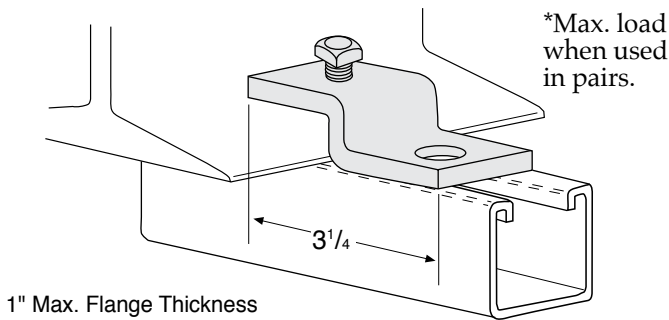


Fig. Number	Set Screw	Std. Package	Max. Rec. Load/lbs.	Wt. Each (in Lbs.)
7030	1/2	25	900*	.63

**Note:** Includes Set Screw. Order 1/2" -13 X 1 3/4 HHCS and Strut Nut Separately

**Available in stainless steel.** To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 3/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

## 7040 Beam Clamp

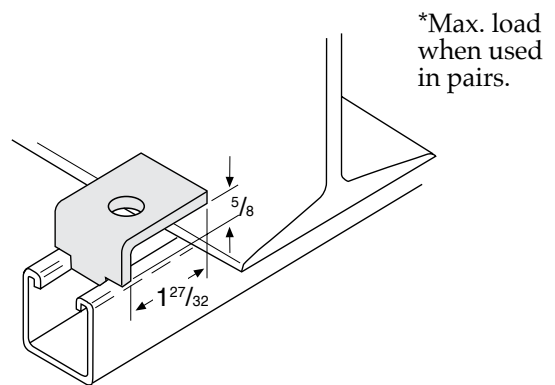


Fig. Number	Std. Package	Max. Rec. Load/lbs.	Wt. Each (in Lbs.)
7040	50	1200*	.26

**Note:** Order 1/2" -13 X 1 3/4 HHCS and Strut Nut Separately

**MATERIAL:** 1/4 X 1 5/8  
**FINISH:** Electro-galvanized  
**ORDERING:** Specify figure number.

# BEAM CLAMPS



## 7050 & 7051 Square U-Bolt

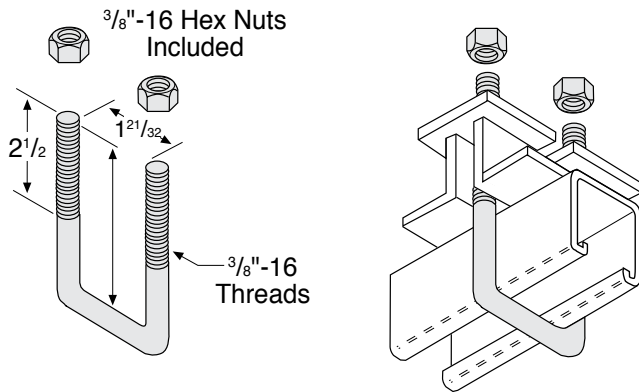


Fig. Number	Length B	Std. Package	Wt. Each (in Lbs.)
7050	3 <sup>3</sup> / <sub>8</sub>	25	.25
7051	5	25	.33

**MATERIAL:** Low carbon steel

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 7060 Beam Clamp For use with 1<sup>5</sup>/<sub>8</sub> Strut

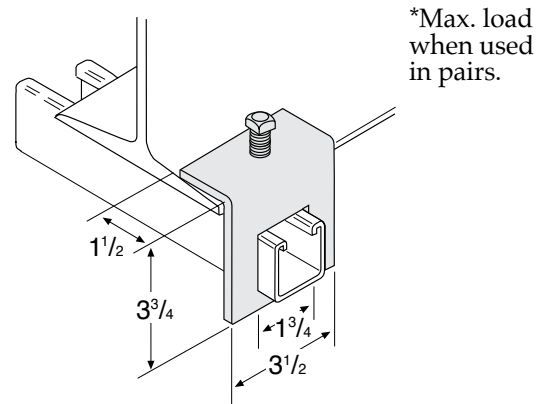


Fig. Number	Set Screw	Std. Package	Max. Rec. Load/lbs.	Wt. Each (in Lbs.)
7060	1/2	25	900*	1.07

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

Fig. Number	Std. Package	Max. Rec. Load/Lbs.	Wt. Each (in Lbs.)
7070	25	1200*	.80
7075	25	1200*	.88
7076	25	1200*	1.12

\*Max. load when used in pairs. 3/4" (19.05) Max. Flange Thickness

## 7070-7076 Beam Clamp

**MATERIAL:** 1/4

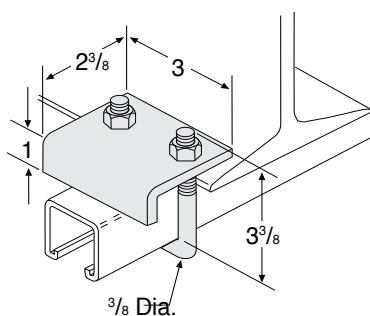
**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

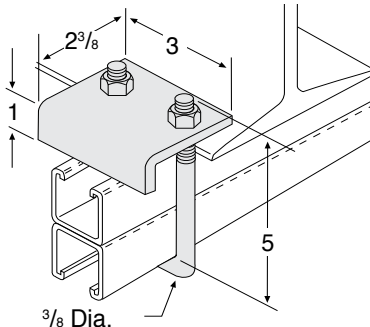
### 7070

For use with 1-5/8 Strut



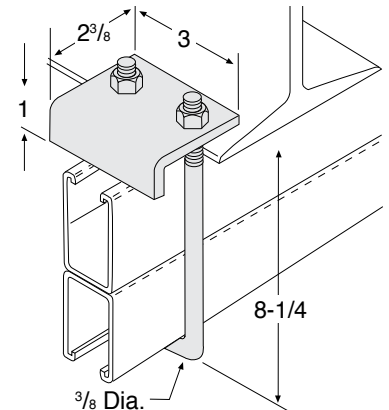
### 7075

For use with 3-1/4 Strut



### 7076

For use with 1500A or 1600A Series Strut





# PIPE CLAMPS

## 7231-7238 One Hole Clamp For O.D. Tubing

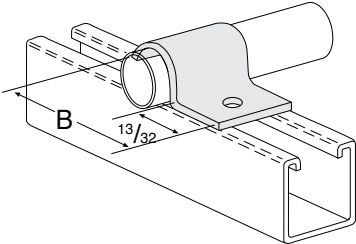


Fig. Number	Tubing O.D.	B	Std. Package	Wt. Each (in Lbs.)
7231	1/4	1 1/16	100	.03
7232	5/16	1 1/8	100	.03
7233	3/8	1 1/8	100	.04
7234	1/2	1 3/16	100	.04
7235	5/8	1 1/4	100	.05
7236	3/4	1 5/16	100	.06
7237	7/8	1 3/8	100	.06
7238	1	1 7/16	100	.07

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

**MATERIAL:** 14 Ga.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number and O.D. size.

## 7370 Pipe Stop

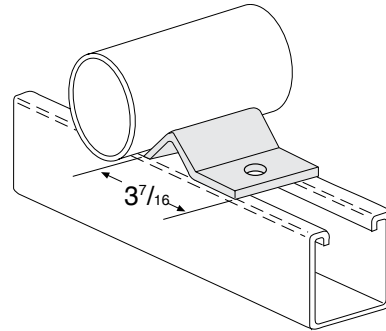


Fig. Number	Std. Package	Wt. Each (in Lbs.)
7370	50	.38

**MATERIAL:** 1/4

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 7251-7263 Standard Pipe Strap

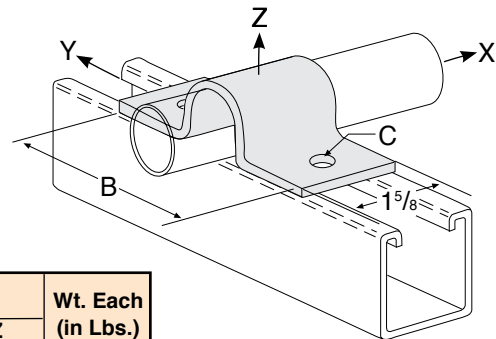


Fig. Number	Pipe Size	B	C	Std. Package	Material Size	Max. Rec. Loads (in Lbs.)			Wt. Each (in Lbs.)
						X	Y	Z	
7251	1/2	2 7/8	5/16	25	1/8	105	150	600	.29
7252	3/4	3 1/16	5/16	25	1/8	105	150	600	.32
7253	1	3 1/2	5/16	25	1/8	120	150	600	.35
7254	1 1/4	3 13/16	5/16	25	1/8	120	150	600	.41
7255	1 1/2	3 15/16	5/16	25	1/8	120	150	600	.45
7256	2	5 1/16	7/16	10	1/4	180	480	1200	1.00
7257	2 1/2	6 3/16	7/16	10	1/4	180	480	1200	1.13
7258	3	6 11/16	7/16	10	1/4	300	480	1200	1.32
7259	3 1/2	7 5/16	7/16	10	1/4	300	480	1200	1.51
7260	4	8	7/16	10	1/4	450	600	1500	1.66
7261	5	9	7/16	10	1/4	450	600	1500	1.91
7262	6	10 1/8	7/16	10	1/4	450	600	1500	2.23
7263	8	12	7/16	5	1/4	600	800	2000	2.97

**MATERIAL:** Low carbon steel

**FINISH:**  
Electro-galvanized

**ORDERING:** Specify figure number and pipe size.

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.



# PIPE ROLLERS



## 7400 Separate Rollers

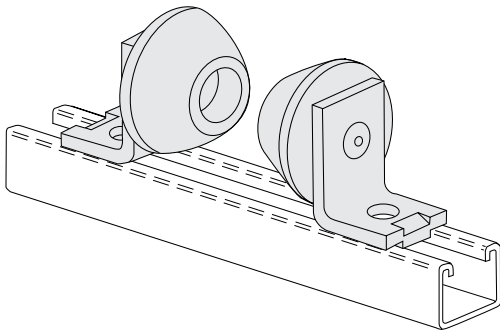


Fig. Number	For Pipe Sizes	Max. Rec. Load (in Lbs)	Std. Package	Wt. Per Set (in Lbs.)
7400	1/2 - 8	500	10 sets	1.55

**MATERIAL:** Cast Aluminum Rolls w/steel bracket.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 7501-7506 Pipe Roller with Axle

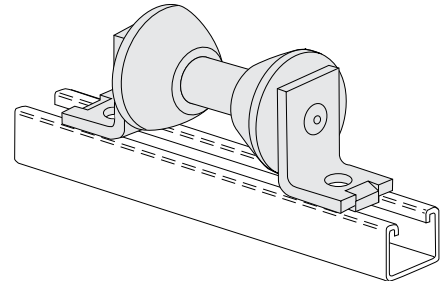


Fig. Number	For Pipe Sizes	Max. Rec. Load (in Lbs)	Std. Package	Wt. Each (in Lbs.)
7501	1 - 3	750	10	1.59
7502	3 - 4	750	10	1.66
7503	4 - 6	750	10	1.79
7504	6 - 8	750	10	1.82
7505	10	750	10	1.90
7506	12	750	10	1.93

**MATERIAL:** Cast Alum. Rolls w/steel bracket and axle.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 7530 60° Separate Rollers

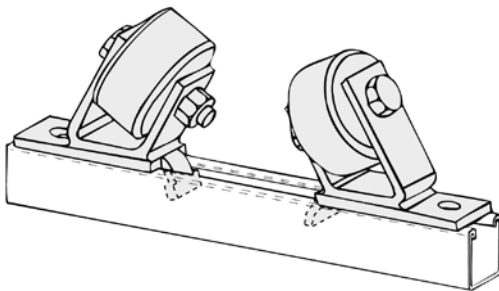


Fig. Number	For Pipe Sizes	Max. Rec. Load (in Lbs)	Std. Package	Wt. Each (in Lbs.)
7530	6 - 18	1500	5 sets	4.10

**MATERIAL:** Cast Aluminum Rolls w/steel bracket.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.

## 7560 60° Rollers with Center Roller

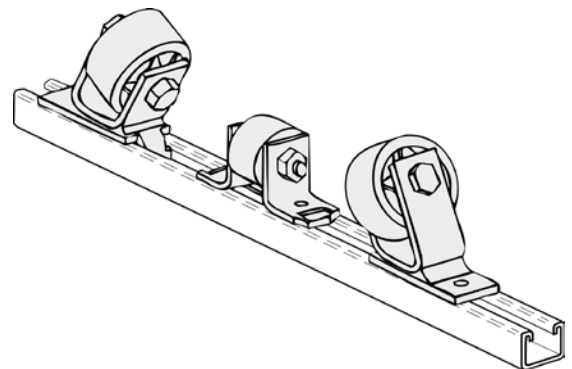


Fig. Number	For Pipe Sizes	Max. Rec. Load (in Lbs)	Std. Package	Wt. Per Set (in Lbs.)
7560	20 - 30	2000	5 sets	5.70

**MATERIAL:** Cast Aluminum Rolls w/steel bracket.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.



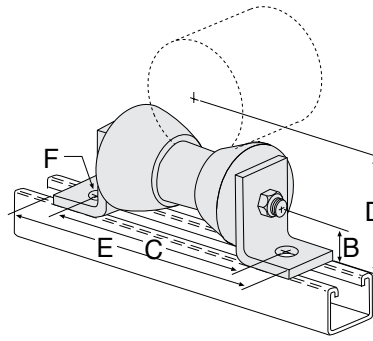
# PIPE ROLLERS

## 7581 - 7585 Roller Support

**MATERIAL:** Cast Iron Rolls w/steel bracket and axle.

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.



**B**  
Center of axle to  
bottom of plate

**D**  
Center of pipe to  
bottom of plate

Fig. Number	Pipe Size	B	C	D	E	F	Material Size	Max. Rec. Load/Lbs.	Std. Package	Wt. Each (in Lbs.)
7581	2	1 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	390	Bulk	1.77
7581	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>16</sub>	6 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	390	Bulk	1.77
7581	3	1 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	390	Bulk	1.77
7581	3 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	4	6 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	390	Bulk	1.77
7582	4	1 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	600	Bulk	2.31
7582	5	1 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>8</sub>	4 <sup>9</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	600	Bulk	2.31
7582	6	1 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	600	Bulk	2.31
7583	8	1 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	7 <sup>5</sup> / <sub>16</sub>	9 <sup>3</sup> / <sub>4</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	800	Bulk	5.42
7583	10	1 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>5</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>4</sub>	9 <sup>9</sup> / <sub>16</sub>	1/4 X 1 <sup>5</sup> / <sub>8</sub>	800	Bulk	5.42
7584	12	2 <sup>7</sup> / <sub>16</sub>	12 <sup>9</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>4</sub>	1 <sup>13</sup> / <sub>16</sub>	3/8 X 2	1300	Bulk	10.40
7584	14	2 <sup>7</sup> / <sub>16</sub>	12 <sup>9</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	14 <sup>3</sup> / <sub>4</sub>	1 <sup>13</sup> / <sub>16</sub>	3/8 X 2	1300	Bulk	10.40
7585	16	2 <sup>15</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>4</sub>	12	16 <sup>1</sup> / <sub>4</sub>	1 <sup>13</sup> / <sub>16</sub>	3/8 X 2 <sup>1</sup> / <sub>2</sub>	2300	Bulk	15.08
7585	18	2 <sup>15</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>4</sub>	1 <sup>13</sup> / <sub>16</sub>	3/8 X 2 <sup>1</sup> / <sub>2</sub>	2300	Bulk	15.08
7585	20	2 <sup>15</sup> / <sub>16</sub>	14 <sup>1</sup> / <sub>4</sub>	14 <sup>3</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>4</sub>	1 <sup>13</sup> / <sub>16</sub>	3/8 X 2 <sup>1</sup> / <sub>2</sub>	2300	Bulk	15.08

# HARDWARE

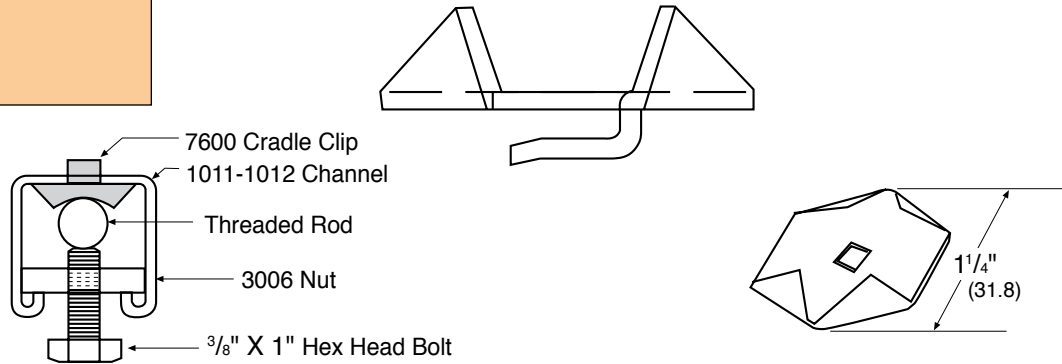
## 7600 Cradle Clip

**FUNCTION:** Designed to stiffen 3/8" to 5/8" rod

**MATERIAL:** 16 gauge

**FINISH:** Electro-galvanized

**ORDERING:** Specify figure number.



Rod Size		Std. Package	Weight Each	
			Lbs.	kg
3/8	(10)	500	0.03	(0.01)
1/2	(12)	500	0.03	(0.01)
5/8	(16)	500	0.03	(0.01)

# INDEX



Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
1001 - 1042.....	26	5005 - 5009.....	50	5131 .....	58	5340 - 5350.....	66
1101 - 1142 .....	28	5010 - 5012.....	50	5135 .....	58	5360 - 5366.....	67
1201 - 1242.....	30	5013 - 5014.....	50	5140 & 5145.....	59	5370 - 5376.....	67
1301 - 1342.....	32	5015 .....	51	5141 & 5146.....	59	5410 - 5412.....	68
1401 - 1442.....	34	5017 .....	51	5148 .....	59	5420 - 5427.....	68
1501 - 1542.....	36	5019 .....	51	5150 .....	59	5430 - 5440.....	68
1601 - 1642.....	38	5020 .....	51	5155 & 5156.....	60	5501 .....	69
1701 - 1742.....	40	5023 .....	52	5160 .....	60	5503 .....	69
2001 - 2016.....	43	5025 .....	52	5165 .....	60	5505 .....	69
2101 - 2107.....	43	5030 .....	52	5166 .....	60	5507 .....	69
2201 - 2207 .....	43	5035 .....	52	5170 & 5175.....	61	5509 .....	70
2301 - 2314.....	44	5040 .....	53	5171 & 5176.....	61	5511 .....	70
2401 - 2435.....	44	5045 .....	53	5180 .....	61	5513 .....	70
2436 - 2461 .....	45	5050 .....	53	5185 .....	61	5521 .....	70
2501 - 2514.....	45	5060 .....	53	5186 .....	62	5530 - 5532.....	71
2600 .....	45	5065 .....	54	5190 .....	62	5541 .....	71
3001 - 3011 .....	46	5075 .....	54	5200 .....	62	5542 .....	71
3101 - 3111 .....	46	5080 .....	54	5205 .....	62	5543 .....	71
3201 - 3210.....	46	5085 .....	54	5210 & 5211 .....	63	5550 .....	72
3301 - 3311 .....	47	5090 .....	55	5220 .....	63	5551 .....	72
3351 - 3353.....	47	5095 .....	55	5221 .....	63	5552 .....	72
3404-3408.....	47	5101 - 5107.....	56	5225 .....	63	5553 .....	72
4000 .....	48	5110 .....	56	5226 .....	64	5554 .....	73
4100 .....	48	5112 .....	56	5228 .....	64	5556 .....	73
4200 .....	48	5115 - 5118 .....	56	5230 .....	64	5558 .....	73
4300 .....	48	5119 .....	57	5250 .....	64	5560 - 5562.....	73
4405 - 4420.....	49	5120 .....	57	5255 .....	65	5565 .....	74
4440 - 4470.....	49	5121 .....	57	5260 .....	65	5570 - 5574.....	74
4475 - 4489.....	49	5122 .....	57	5270 .....	65	5575 .....	74
4500 - 4506.....	49	5123 .....	58	5301 - 5315.....	66	5580 .....	74
5000 - 5004.....	50	5130 .....	58				



# INDEX

Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
5581 .....	75	5775 .....	82	6123 - 6125 .....	90	7560 .....	97
5582 .....	75	5780 .....	82	6130 - 6135 .....	90	7581 - 7585 .....	98
5583 .....	75	5801 & 5802 .....	83	6140 - 6144 .....	90	7600 .....	98
5590 .....	75	5803 & 5804 .....	83	6150 - 6152 .....	91		
5600 & 5601 .....	76	5821 .....	83	6160 - 6172 .....	91		
5605 & 5606 .....	76	5825 - 5827 .....	83	6202 - 6208 .....	91		
5610 & 5611 .....	76	5830 - 5834 .....	84	6212 - 6218 .....	92		
5615 & 5616 .....	76	5835 - 5837 .....	84	6222 & 6224 .....	92		
5620 .....	77	5840 .....	84	6232 & 6234 .....	92		
5625 .....	77	5845 .....	84	6246 & 6248 .....	92		
5630 .....	77	5860 .....	85	6305 .....	93		
5635 .....	77	5861 .....	85	6310 .....	93		
5640 .....	78	5870 .....	85	7001 & 7002 .....	93		
5645 .....	78	5875 .....	85	7005 - 7008 .....	93		
5650 .....	78	6005 .....	86	7011 & 7012 .....	94		
5655 .....	78	6010 .....	86	7020 & 7025 .....	94		
5660 .....	79	6015 .....	86	7030 .....	94		
5665 .....	79	6020 .....	86	7040 .....	94		
5675 .....	79	6025 .....	87	7050 & 7051 .....	95		
5685 .....	79	6030 .....	87	7060 .....	95		
5700 - 5704 .....	80	6035 .....	87	7070 .....	95		
5705 .....	80	6040 .....	87	7075 .....	95		
5710 .....	80	6045 .....	88	7076 .....	95		
5715 .....	80	6050 .....	88	7231 - 7238 .....	96		
5720 .....	81	6060 .....	88	7251 - 7263 .....	96		
5730 .....	81	6065 .....	88	7370 .....	96		
5750 - 5752 .....	81	6080 .....	89	7400 .....	97		
5760 - 5764 .....	81	6095 .....	89	7501 - 7506 .....	97		
5770 .....	82	6101 - 6122 .....	90	7530 .....	97		

# NOTES

