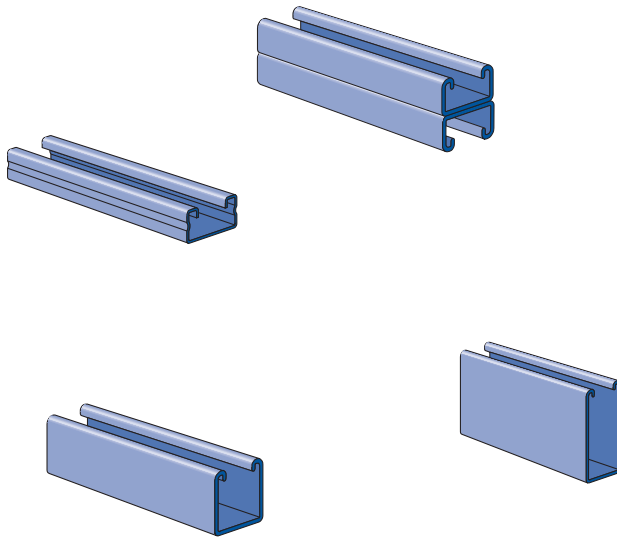




1 1/4" FRAMING SYSTEM



A1000 (14 Gauge)	169-170
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A4000 (19 Gauge)	173-174
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MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel.

STEEL: PLAIN

- 14 Gauge (1.9 mm), ASTM A1011 SS GR 33
- 19 Gauge (1.0 mm) ASTM A1008

STEEL: PRE-GALVANIZED

- 14 Gauge (1.9 mm) ASTM A653 GR 33,
- 19 Gauge (1.0 mm) ASTM A653 GR 33

Channel nuts are manufactured from mild steel bars conforming to ASTM A576, GR 1015, and are case hardened.

Fittings are made from hot rolled, pickled and oiled steel plate or strip and conform to ASTM A1011 SS GR 33.

Many framing channels are available in special metal on request. Consult factory for ordering information.

FINISHES

All channels and fittings are available in: Perma-Green III (GR), Pre-galvanized (PG), conforming to ASTM A653 GR 33 and plain (PL).

Nuts are available in plain or electro-galvanized (EG) finish. Fittings are available in Perma-Green III (GR) or plain (PL).

STANDARD LENGTHS

Standard lengths are 10 feet (3.05M) and 20 feet (6.10M). Tolerances are: +1/8" (3.2 mm) to +1/2" (12.7 mm) to allow for cutting. Special lengths are available for a small cutting charge with a tolerance of ±1/8" (3.2mm).

APPLICATION

A framing system designed for medium loads, the 1 1/4" series is especially suitable for use in the OEM, commercial and display markets. It maintains a lightness in scale and a clean line that makes it aesthetically pleasing as well as functional.

THREADS

All threads on the nuts and bolts are Unified and American coarse screw threads.

DESIGN BOLT TORQUE

BOLT SIZE	1/4"-20	5/16"-18	3/8"-16
Rec. Torque	6	11	19
Ft/Lbs (N•m)	(8)	(15)	(26)
Max Torque	7	15	25
Ft/Lbs (N•m)	(9)	(20)	(34)

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

LOAD DATA

All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD. Loads are based on 33 ksi steel cold formed to 42 ksi.

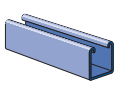
Type of Load	Safety Factor to Yield Strength	Safety Factor to Ultimate Strength
Beam Loads	1.67	2.0
Column Load	1.80	2.2



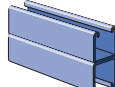
1 1/2" System

A1000 Series

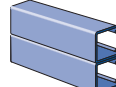
1 1/4" x 1 1/4"
14 Ga.



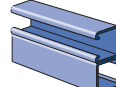
A1000-Pg 169



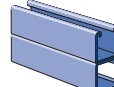
A1001-Pg 169



A1001 A-Pg 170



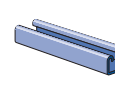
A1001 B-Pg 170



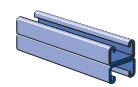
A1001 C-Pg 170

A3300 Series

1 1/4" x 3/4"
14 Ga.



A3300-Pg 171

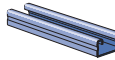


A3301-Pg 171

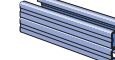
1 1/4" System

A4000 Series

1 1/4" x 5/8"
19 Ga.



A4000-Pg 173



A4001-Pg 173

A5000 Series

1 1/4" x 2 1/2"
14 Ga.



A5000-Pg 175

Channel Nuts & Closures



A1006-1420-Pg 175



A4006-1420-Pg 176



A5006-1420-Pg 176

1 3/16" System

A Series Fittings



A3006-1420-Pg 176



A3016-0832-Pg 176



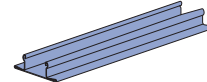
A1280-Pg 177



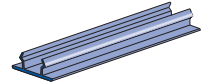
A4280-Pg 177



A5280-Pg 177



A1184-Pg 177



A1184P-Pg 177

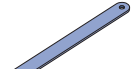
Fiberglass System



A1063-Pg 177



A1065-Pg 177



A1191-Pg 177



A1066-Pg 177



A2324-Pg 177



A1036-Pg 177



A1031-Pg 177

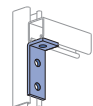


A1026-Pg 177

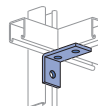


A1068-Pg 177

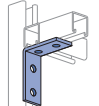
Special Metals



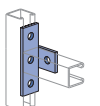
A1326-Pg 177



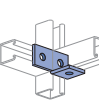
A1458-Pg 177



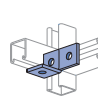
A1325-Pg 178



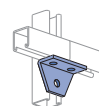
A1033-Pg 178



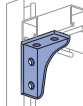
A1037-Pg 178



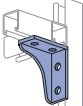
A1038-Pg 178



A1357-Pg 178

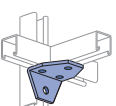


A1331-Pg 178

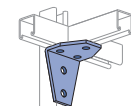


A1332-Pg 178

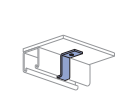
Prime Angle



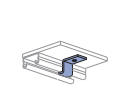
A1579-Pg 178



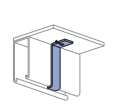
A2235-Pg 178



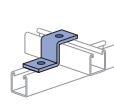
A2120-Pg 178



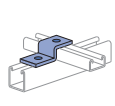
A4120-Pg 178



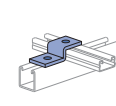
A5120-Pg 178



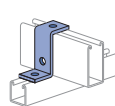
A1045-Pg 178



A3345-Pg 178

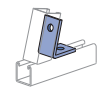


A4045-Pg 178



A5045-Pg 178

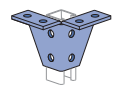
Metal Grating



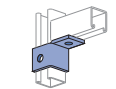
A2109-Pg 179



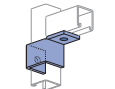
A2125-Pg 179



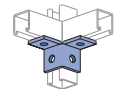
A2084-Pg 179



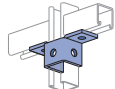
A2341 R-L-Pg 179



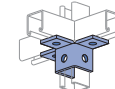
A2472 R-L-Pg 179



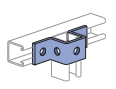
A2223-Pg 179



A2345-Pg 179

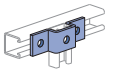


A2227-Pg 179

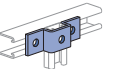


A1047-Pg 179

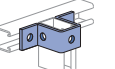
Roofwalk



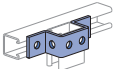
A3347-Pg 179



A4047-Pg 179



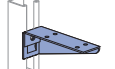
A5047-Pg 179



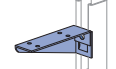
A5043-Pg 179



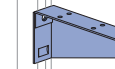
A2608-Pg 180



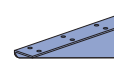
A2491 R-Pg 180



A2491 L-Pg 180



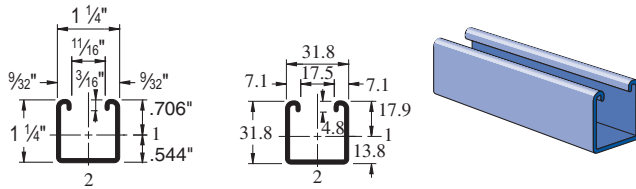
A2494 R-Pg 180



A2494 L-Pg 180

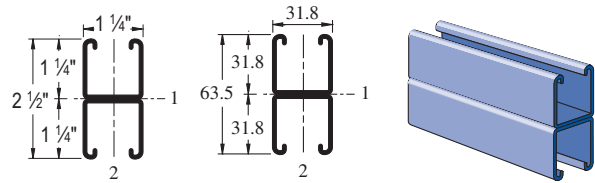
Index

A1000 – 1 1/4" x 1 1/4"



Wt/100 Ft: 104 Lbs(154 kg/100m)
 Allowable Moment 2,170 In-Lbs (240 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1001 – 1 1/4" x 2 1/2"



Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 6,070 In-Lbs (690 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1000 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Defl.		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
18	960	0.04	960	960	960
24	720	0.07	720	720	660
36	480	0.16	480	440	300
48	360	0.29	330	250	170
60	290	0.45	210	160	110
72	240	0.65	150	110	70
84	210	0.90	110	80	50
96	180	1.16	80	60	40
108	160	1.46	70	50	30
120	140	1.75	50	40	30

A1001 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Defl.		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
18	1,650*	0.01	1,650*	1,650*	1,650*
24	1,650*	0.03	1,650*	1,650*	1,650*
36	1,350	0.09	1,350	1,350	1,350
48	1,010	0.16	1,010	1,010	820
60	810	0.26	810	790	530
72	670	0.37	670	550	370
84	580	0.50	540	400	270
96	510	0.66	410	310	210
108	450	0.83	330	240	160
120	400	1.01	260	200	130

A1000 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
18	1,960	5,900	5,430	4,800	4,210
24	1,840	5,210	4,590	3,850	3,220
36	1,500	3,940	3,220	2,480	2,010
48	1,220	2,950	2,300	1,790	1,460
60	1,020	2,260	1,790	1,400	1,130
72	880	1,840	1,460	1,130	910
84	780	1,550	1,230	940	**
96	690	1,340	1,050	**	**
108	620	1,170	910	**	**

A1001 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
18	3,530	13,300	12,920	12,400	11,880
24	3,480	12,750	12,220	11,550	10,950
36	3,370	11,630	10,950	10,220	9,150
48	3,260	10,680	10,020	8,260	6,500
60	2,960	9,930	8,260	6,080	4,270
72	2,630	8,480	6,500	4,270	2,970
84	2,260	7,040	4,900	3,140	2,180
96	1,940	5,680	3,750	2,400	**
108	1,670	4,490	2,970	**	**
120	1,440	3,640	2,400	**	**

A1000/A1001 - ELEMENTS OF SECTION

Parameter	A1000	A1001
Area of Section	0.305 In ²	0.609 In ²
Axis 1-1		
Moment of Inertia (I)	0.061 In ⁴	0.302 In ⁴
Section Modulus (S)	0.086 In ³	0.242 In ³
Radius of Gyration (r)	0.447 In	0.704 In
Axis 2-2		
Moment of Inertia (I)	0.078 In ⁴	0.156 In ⁴
Section Modulus (S)	0.125 In ³	0.250 In ³
Radius of Gyration (r)	0.506 In	0.506 In

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 176 for reduction factors for unbraced lengths.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.



1 1/2" System
 1 1/4" System
 1 3/16" System
 Fiberglass System
 Special Metals
 Prime Angle
 Metal Grating
 Roofwalk
 Index

A1000 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	3.2	2	3.2	3.2	3.1
750	2.6	3	2.6	2.6	2.0
1,000	2.0	5	2.0	1.6	1.1
1,250	1.6	8	1.4	1.1	0.7
1,500	1.3	11	1.0	0.7	0.5
1,750	1.1	15	0.7	0.5	0.4
2,000	1.0	20	0.5	0.4	0.3
2,500	0.8	32	0.4	0.3	0.2
3,000	0.7	46	0.2	0.2	0.1

A1001 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	7.3*	1	7.3*	7.3*	7.3
750	7.3*	2	7.3*	7.3*	7.3
1,000	5.5	3	5.5	5.5	5.5
1,250	4.4	4	4.4	4.4	3.5
1,500	3.6	6	3.6	3.6	2.4
1,750	3.2	9	3.2	2.7	1.8
2,000	2.8	11	2.7	2.0	1.4
2,500	2.2	17	1.7	1.3	0.9
3,000	1.8	25	1.2	0.9	0.6
3,500	1.6	34	0.9	0.7	0.4

A1000 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	8.2	23.4	20.7	17.3	14.6
750	7.5	20.5	17.3	14.0	11.3
1,000	6.3	16.2	13.0	9.9	8.1
1,250	5.3	12.8	9.9	7.7	6.3
1,500	4.6	10.2	8.1	6.3	5.2
1,750	4.1	8.6	6.8	5.3	4.3
2,000	3.6	7.4	5.9	4.5	**
2,250	3.3	6.5	5.2	3.9	**
2,500	3.0	5.8	4.5	**	**
2,750	2.7	5.2	4.0	**	**

A1001 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	15.5	56.9	54.5	51.6	48.9
750	15.2	54.4	51.6	48.4	45.7
1,000	14.9	50.4	47.4	43.9	37.4
1,250	14.4	47.2	43.9	35.7	27.8
1,500	13.3	44.6	37.4	27.8	19.6
1,750	12.1	39.4	30.9	20.7	14.4
2,000	10.8	34.1	24.8	15.9	11.0
2,250	9.5	29.0	19.6	12.5	**
2,500	8.4	24.1	15.9	10.2	**
2,750	7.4	19.9	13.1	**	**

A1000/A1001 - ELEMENTS OF SECTION (METRIC)

Parameter	A1000	A1001
Area of Section	1.96 cm ²	3.93 cm ²
Axis 1-1		
Moment of Inertia (I)	2.53 cm ⁴	12.57 cm ⁴
Section Modulus (S)	1.41 cm ³	3.96 cm ³
Radius of Gyration (r)	1.14 cm	1.79 cm
Axis 2-2		
Moment of Inertia (I)	3.25 cm ⁴	6.50 cm ⁴
Section Modulus (S)	2.05 cm ³	4.09 cm ³
Radius of Gyration (r)	1.29 cm	1.29 cm

Notes:

* Load limited by spot weld shear.

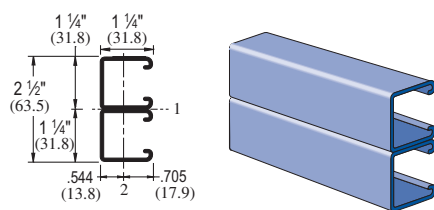
** KL/r > 200

NR = Not Recommended.

- Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
- Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 176 for reduction factors for unbraced lengths.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

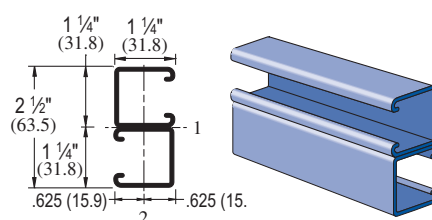
Finishes: PL, GR, HG, PG Standard Lengths: 10' & 20'

A1001A - 1 1/4" x 2 1/2"



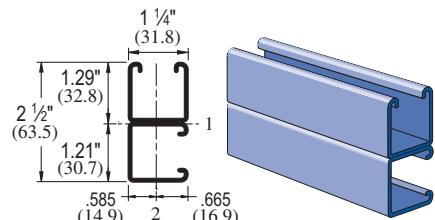
Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 7,930 In-Lbs (900 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1001B - 1 1/4" x 2 1/2"



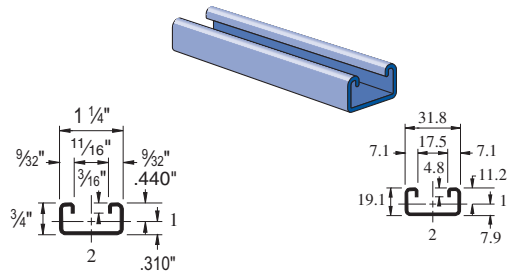
Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 7,930 In-Lbs (900 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A1001C - 1 1/4" x 2 1/2"



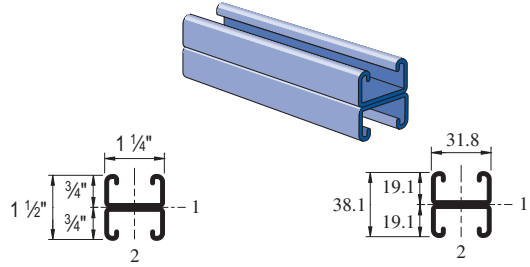
Wt/100 Ft: 207 Lbs (308 kg/100m)
 Allowable Moment 6,760 In-Lbs (760 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A3300 – 1 1/4" x 3/4"



Wt/100 Ft: 78 Lbs (116 kg/100m)
 Allowable Moment 950 In-Lbs (110 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A3301 – 1 1/4" x 1 1/2"



Wt/100 Ft: 156 Lbs (232 kg/100m)
 Allowable Moment 2,590 In-Lbs (290 N·m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A3300 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
18	420	0.07	420	420	320
24	320	0.12	320	270	180
36	210	0.26	160	120	80
48	160	0.47	90	70	50
60	130	0.75	60	40	30
72	110	1.09	40	30	20
84	90	1.42	30	20	10
96	80	1.88	20	20	10

A3301 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
18	990*	0.03	990*	990*	990*
24	860	0.07	860	860	850
36	580	0.15	580	560	380
48	430	0.27	420	320	210
60	350	0.43	270	200	140
72	290	0.62	190	140	90
84	250	0.85	140	100	70
96	220	1.11	110	80	50

A3300 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
18	1,430	4,490	4,210	3,860	3,550
24	1,370	4,090	3,750	3,310	2,680
36	1,190	3,390	2,680	1,820	1,260
48	900	2,380	1,600	1,020	**
60	680	1,550	1,020	**	**

A3301 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
18	2,540	9,890	9,620	9,300	9,020
24	2,510	9,510	9,200	8,710	7,960
36	2,410	8,800	7,960	6,730	5,490
48	2,230	7,560	6,320	4,690	3,310
60	1,970	6,210	4,690	3,050	2,120
72	1,650	4,890	3,310	2,120	**
84	1,380	3,680	2,430	**	**
96	1,160	2,820	1,860	**	**

A3300/A3301 - ELEMENTS OF SECTION

Parameter	A3300	A3301
Area of Section	0.230 In ²	0.459 In ²
Axis 1-1		
Moment of Inertia (I)	0.017 In ⁴	0.077 In ⁴
Section Modulus (S)	0.038 In ³	0.103 In ³
Radius of Gyration (r)	0.269 In	0.411 In
Axis 2-2		
Moment of Inertia (I)	0.052 In ⁴	0.104 In ⁴
Section Modulus (S)	0.083 In ³	0.167 In ³
Radius of Gyration (r)	0.477 In	0.477 In

Notes:

* Load limited by spot weld shear.

** KL/r > 200

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2. Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 176 for reduction factors for unbraced lengths.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.

1 1/2" System
1 1/4" System
1 3/16" System
Fiberglass System
Special Metals
Prime Angle
Metal Grating
Roofwalk
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A3300 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	1.4	3	1.4	1.2	0.8
750	1.2	5	1.1	0.8	0.5
1,000	0.8	8	0.6	0.4	0.3
1,250	0.7	12	0.4	0.3	0.2
1,500	0.6	18	0.3	0.2	0.1
1,750	0.5	24	0.2	0.1	0.1
2,000	0.4	33	0.1	0.1	0.1

A3301 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	3.9	2	3.9	3.9	3.9
750	3.1	3	3.1	3.1	2.5
1,000	2.4	5	2.4	2.1	1.4
1,250	1.9	7	1.8	1.3	0.9
1,500	1.6	10	1.2	0.9	0.6
1,750	1.3	14	0.9	0.7	0.4
2,000	1.2	18	0.7	0.5	0.4
2,500	0.9	29	0.4	0.4	0.2
3,000	0.8	43	0.3	0.2	0.1

A3300 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	6.1	18.3	16.8	14.9	12.2
750	5.8	16.7	14.9	11.5	8.4
1,000	4.9	13.8	10.4	6.8	4.7
1,250	3.9	10.1	6.8	4.3	**
1,500	3.1	7.1	4.7	**	**

A3301 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	11.2	42.4	41.0	39.0	35.7
750	11.0	40.9	39.0	34.9	30.4
1,000	10.5	37.7	33.4	27.4	21.4
1,250	9.8	33.0	27.4	20.0	14.0
1,500	8.9	28.1	21.4	14.0	9.7
1,750	7.7	23.2	16.1	10.3	**
2,000	6.7	18.6	12.3	7.9	**
2,250	5.8	14.7	9.7	**	**
2,500	5.0	11.9	7.9	**	**

A3300/A3301 - ELEMENTS OF SECTION (METRIC)

Parameter	A3300		A3301	
Area of Section	1.48	cm ²	2.96	cm ²
Axis 1-1				
Moment of Inertia (I)	0.69	cm ⁴	3.22	cm ⁴
Section Modulus (S)	0.62	cm ³	1.69	cm ³
Radius of Gyration (r)	0.68	cm	1.04	cm
Axis 2-2				
Moment of Inertia (I)	2.17	cm ⁴	4.34	cm ⁴
Section Modulus (S)	1.37	cm ³	2.73	cm ³
Radius of Gyration (r)	1.21	cm	1.21	cm

Notes:

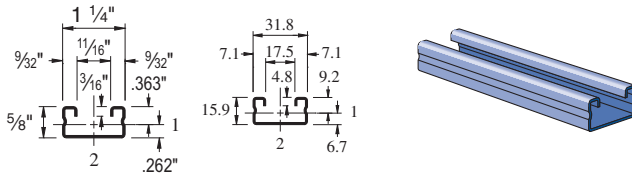
* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

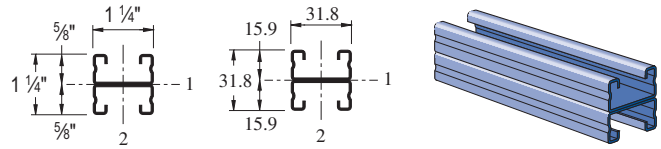
1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 176 for reduction factors for unbraced lengths.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.

A4000 – 1 1/4" x 5/8"



Wt/100 Ft: 45 Lbs (67 kg/100m)
 Allowable Moment 560 In-Lbs (60 N•m)
 19 Gauge Nominal Thickness .040" (1.0mm)

A4001– 1 1/4" x 1 1/4"



Wt/100 Ft: 90 Lbs (134 kg/100m)
 Allowable Moment 1,470 In-Lbs (170 N•m)
 19 Gauge Nominal Thickness .040" (1.0mm)

A4000 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
18	250	0.08	250	220	150
24	190	0.15	170	120	80
36	120	0.32	70	60	40
48	90	0.58	40	30	20
60	70	0.88	30	20	10
72	60	1.30	20	10	10

A4001 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
18	350*	0.02	350*	350*	350*
24	350*	0.06	350*	350*	350*
36	330	0.19	330	270	180
48	240	0.32	200	150	100
60	200	0.52	130	100	60
72	160	0.72	90	70	40
84	140	1.00	70	50	30

A4000 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
18	960	2,510	2,290	1,990	1,700
24	880	2,190	1,890	1,530	1,230
36	670	1,570	1,230	830	580
48	470	1,110	730	470	**
60	340	710	470	**	**

A4001 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
18	1,640	5,640	5,420	5,110	4,800
24	1,600	5,320	5,000	4,600	4,240
36	1,510	4,650	4,240	3,500	2,730
48	1,330	4,030	3,240	2,250	1,560
60	1,090	3,170	2,250	1,440	1,000
72	870	2,370	1,560	1,000	**
84	700	1,740	1,150	**	**

A4000/A4001 - ELEMENTS OF SECTION

Parameter	A4000	A4001
Area of Section	0.132 In ²	0.264 In ²
Axis 1-1		
Moment of Inertia (I)	0.008 In ⁴	0.037 In ⁴
Section Modulus (S)	0.022 In ³	0.058 In ³
Radius of Gyration (r)	0.240 In	0.372 In
Axis 2-2		
Moment of Inertia (I)	0.029 In ⁴	0.058 In ⁴
Section Modulus (S)	0.046 In ³	0.093 In ³
Radius of Gyration (r)	0.469 In	0.469 In

Notes:

* Load limited by spot weld shear.

** KL/r > 200

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4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.

1 1/2" System

1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

Prime Angle

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A4000 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	0.8	4	0.8	0.6	0.4
750	0.7	6	0.5	0.4	0.3
1,000	0.5	10	0.3	0.2	0.1
1,250	0.4	16	0.2	0.1	0.1
1,500	0.4	24	0.1	0.1	0.0

A4001 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	1.6*	1	1.6*	1.6*	1.6
750	1.6*	3	1.6*	1.6*	1.2
1,000	1.3	6	1.3	1.0	0.7
1,250	1.1	9	0.8	0.6	0.4
1,500	0.9	13	0.6	0.4	0.3
1,750	0.8	17	0.4	0.3	0.2
2,000	0.7	22	0.3	0.3	0.2

A4000 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	3.9	9.8	8.5	6.9	5.6
750	3.5	8.4	6.9	5.3	3.8
1,000	2.8	6.4	4.8	3.1	2.1
1,250	2.0	4.7	3.1	**	**
1,500	1.5	3.2	2.1	**	**

A4001 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	7.1	23.8	22.4	20.6	19.0
750	6.9	22.3	20.6	18.6	15.8
1,000	6.6	19.9	17.8	13.9	10.3
1,250	5.8	17.5	13.9	9.5	6.6
1,500	4.9	14.4	10.3	6.6	4.6
1,750	4.1	11.4	7.6	4.8	**
2,000	3.4	8.8	5.8	**	**
2,250	2.9	6.9	4.6	**	**

A4000/A4001 - ELEMENTS OF SECTION (METRIC)

Parameter	A4000		A4001	
Area of Section	0.85	cm ²	1.70	cm ²
Axis 1-1				
Moment of Inertia (I)	0.32	cm ⁴	1.52	cm ⁴
Section Modulus (S)	0.37	cm ³	0.96	cm ³
Radius of Gyration (r)	0.61	cm	0.94	cm
Axis 2-2				
Moment of Inertia (I)	1.21	cm ⁴	2.42	cm ⁴
Section Modulus (S)	0.76	cm ³	1.52	cm ³
Radius of Gyration (r)	1.19	cm	1.19	cm

Notes:

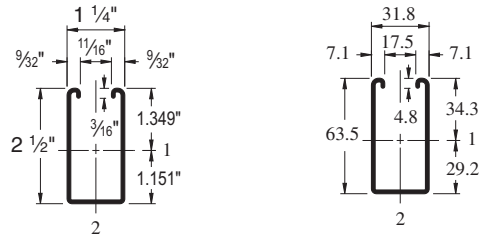
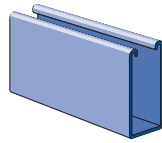
* Load limited by spot weld shear.

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- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%. For other load conditions refer to page 18.
- All beam loads are for bending about Axis 1-1.

A5000 – 1¼" x 2½"



Wt/100 Ft: 167 Lbs (249 kg/100m)
 Allowable Moment 6,670 In-Lbs (750 N•m)
 14 Gauge Nominal Thickness .075" (1.9mm)

A5000 - BEAM LOADING

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load Lbs	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	2,220	0.04	2,220	2,220	2,220
36	1,480	0.09	1,480	1,480	1,480
48	1,110	0.15	1,110	1,110	980
60	890	0.24	890	890	630
72	740	0.34	740	650	430
84	640	0.47	640	480	320
96	560	0.61	490	370	240
108	490	0.76	390	290	190
120	440	0.94	310	230	160

A5000 - BEAM LOADING (METRIC)

Span mm	Max Allowable Uniform Load kN	Defl. at Uniform Load mm	Uniform Loading at Deflection		
			Span/180 kN	Span/240 kN	Span/360 kN
600	10.1	1	10.1	10.1	10.1
750	8.1	1	8.1	8.1	8.1
1,000	6.1	3	6.1	6.1	6.1
1,250	4.8	4	4.8	4.8	4.1
1,500	4.0	6	4.0	4.0	2.9
1,750	3.4	8	3.4	3.2	2.1
2,000	3.0	10	3.0	2.4	1.6
2,500	2.4	16	2.1	1.6	1.0
3,000	2.0	23	1.4	1.1	0.7

A5000 - COLUMN LOADING

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,790	7,950	6,670	5,080	3,760
36	1,950	5,270	3,760	2,600	1,970
48	1,360	3,290	2,350	1,690	1,330
60	990	2,300	1,690	1,260	1,010
72	790	1,750	1,330	1,010	830
84	660	1,420	1,100	860	710
96	570	1,200	940	740	**
108	510	1,040	830	**	**
120	460	930	740	**	**

A5000 - COLUMN LOADING (METRIC)

Unbraced Height mm	Maximum Allowable Load at Slot Face kN	Max. Column Load Applied at C.G.			
		K = 0.65 kN	K = 0.80 kN	K = 1.0 kN	K = 1.2 kN
600	12.5	35.8	30.2	23.1	17.2
750	10.7	29.7	23.1	16.0	11.9
1,000	7.8	20.5	14.4	10.1	7.7
1,250	5.8	14.0	10.1	7.3	5.7
1,500	4.5	10.5	7.7	5.7	4.6
1,750	3.7	8.3	6.2	4.8	3.9
2,000	3.2	6.9	5.3	4.1	3.3
2,250	2.8	5.9	4.6	3.6	3.0
2,500	2.5	5.2	4.1	3.2	**

A5000 - ELEMENTS OF SECTION

Parameter	A5000	
Area of Section	0.492	In ²
Axis 1-1		
Moment of Inertia (I)	0.358	In ⁴
Section Modulus (S)	0.265	In ³
Radius of Gyration (r)	0.853	In
Axis 2-2		
Moment of Inertia (I)	0.143	In ⁴
Section Modulus (S)	0.229	In ³
Radius of Gyration (r)	0.539	In

A5000 - ELEMENTS OF SECTION (METRIC)

Parameter	A5000	
Area of Section	3.17	cm ²
Axis 1-1		
Moment of Inertia (I)	14.91	cm ⁴
Section Modulus (S)	4.35	cm ³
Radius of Gyration (r)	2.17	cm
Axis 2-2		
Moment of Inertia (I)	5.94	cm ⁴
Section Modulus (S)	3.74	cm ³
Radius of Gyration (r)	1.37	cm

Notes:

* Load limited by spot weld shear.

** KL/r > 200

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and assumed to be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity. Refer to Page 176 for reduction factors for unbraced lengths.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% & the corresponding deflection by 80%. Other load conditions refer to page 18.
5. All beam loads are for bending about Axis 1-1.



BEARING LOADS ON UNISTRUT CHANNEL

Loads are calculated based on 2001 Specification For The Design Of Cold Formed Steel Structural Members published by AISI				
	Channel	Bearing Length 1 1/4" (31.8 mm) Maximum Allowable Loads - Lbs (kN)	Bearing Length 1 1/4" (31.8 mm) Maximum Allowable Loads - Lbs (kN)	Bearing Length 2 1/2" (63.5 mm) Maximum Allowable Loads - Lbs (kN)
	A1000	3,700 (16.46)	1,700 (7.56)	4,300 (19.13)
	A3300	3,800 (16.90)	1,700 (7.56)	4,300 (19.13)
	A4000	1,200 (5.34)	600 (2.67)	1,400 (6.23)
A5000	3,600 (16.01)	1,600 (7.12)	4,200 (18.68)	

MAXIMUM ALLOWABLE PULL-OUT AND SLIP LOADS

Nut Size/ Thread	Channel	Gauge	Max Allowable Pull-Out Lbs (kN)	Resistance to Slip Lbs (kN)	Torque Ft-Lbs (N·m)
3/8" -16	A1000	14	900	500	19
			4.00	2.22	26
5/16" -18	A3300	14	900	500	11
			4.00	2.22	15
1/4" -20	A5000	14	900	500	6
			4.00	2.22	8
3/8" -16	A4000	19	300	400	19
			1.33	1.78	26

Nut design loads include a minimum safety factor of 3.

LATERAL BRACING LOAD REDUCTION CHARTS

Span		Single Channel				Double Channel		
Ft. (m)	In. (cm)	A1000	A3300	A4000	A5000	A1001	A3301	A4001
2 (0.6)	24 (61)	0.95	1.00	0.94	0.90	1.00	1.00	1.00
3 (0.9)	36 (91)	0.86	0.97	0.83	0.69	1.00	1.00	0.97
4 (1.2)	48 (122)	0.78	0.94	0.73	0.49	0.95	0.99	0.89
5 (1.5)	60 (152)	0.72	0.91	0.65	0.37	0.90	0.95	0.82
6 (1.8)	72 (183)	0.67	0.89	0.58	0.31	0.84	0.91	0.74
7 (2.1)	84 (213)	0.63	0.87	0.53	0.27	0.79	0.88	0.67
8 (2.4)	96 (244)	0.59	0.85	0.49	0.24	0.74	0.84	0.59
9 (2.7)	108 (274)	0.55	0.83	0.45	0.22	0.69	0.81	0.52
10 (3.1)	120 (305)	0.52	0.80	0.42	0.21	0.64	0.77	0.46
12 (3.7)	144 (366)	0.46	0.76	0.38	0.19	0.54	0.70	0.38

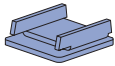
CHANNEL NUT WITH SPRING

	Part Number	Nut Size Thread	Wt/100 pcs Lbs (kg)	Use With
	A1006-1420	1/4" -20	6 (2.7)	A1000
	A1007	5/16" -18	6 (2.7)	
	A1008	3/8" -16	6 (2.7)	
	Part Number	Nut Size Thread	Wt/100 pcs Lbs (kg)	Use With
	A4006-1420	1/4" -20	5 (2.3)	A3300, A4000
	A4007	5/16" -18	5 (2.3)	
	A4008	3/8" -16	5 (2.3)	
	Part Number	Nut Size Thread	Wt/100 pcs Lbs (kg)	Use With
	A5006-1420	1/4" -20	6 (2.7)	A5000
	A5007	5/16" -18	6 (2.7)	
	A5008	3/8" -16	6 (2.7)	

CHANNEL NUT WITHOUT SPRINGS

	Part Number	Nut Size Thread	Wt/100 pcs Lbs (kg)	Use With
	A3006-1420	1/4" -20	5 (2.3)	A1000, A3300, A4000, & A5000
	A3007	5/16" -18	5 (2.3)	
	A3008	3/8" -16	5 (2.3)	
	Part Number	Nut Size Thread	Wt/100 pcs Lbs (kg)	Use With
	A3016-0832	#8 -32	1 (0.5)	A1000, A3300, A4000, & A5000
	A3016-1024	#10 -24	1 (0.5)	
	A3016-1032	#10 -32	1 (0.5)	
	A3016-1420	1/4" -20	1 (0.5)	

A1280 END CAP



Material: .075" (1.9)
Note: Use with A1000 channel

Wt/100 pcs: 7 Lbs (3.2 kg)

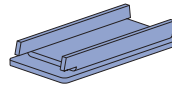
A4280 END CAP



Material: .075" (1.9)
Note: Use with A4000 channel.

Wt/100 pcs: 3 Lbs (1.4 kg)

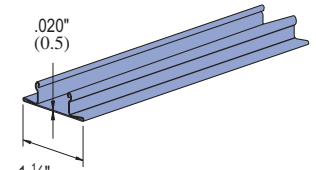
A5280 END CAP



Material: .075" (1.9)
Note: Use with A5000 channel.

Wt/100 pcs: 14 Lbs (6.4 kg)

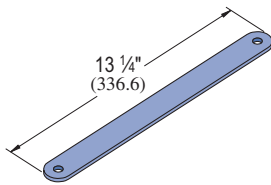
A1184 CLOSURE STRIP



Standard Length 10 Feet
Finish:
Perma-Green II (GR), Plain (PL).

Wt/100 Ft: 21 Lbs (31.3 kg/100M)

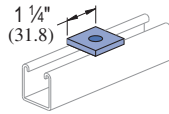
A1191



Wt/100 pcs: 87 Lbs (39.5 kg)

A1066

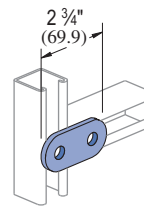
A1063



Wt/100 pcs: 8 Lbs (3.6 kg)

A2324

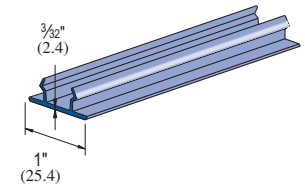
A1065



Wt/100 pcs: 17 Lbs (7.7 kg)

A1036

A1184P CLOSURE STRIP

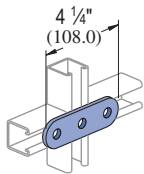


Standard length: 10 Ft.

Material: Paintable PVC.
Color: Green, Grey.

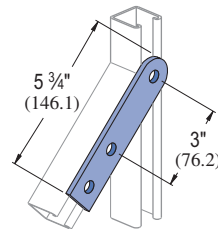
Wt/100 Ft: 21 Lbs (31.3 kg/100M)

A1031



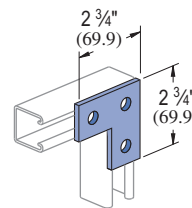
Wt/100 pcs: 26 Lbs (11.8 kg)

A1026



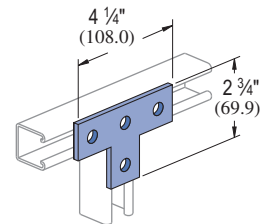
Wt/100 pcs: 39 Lbs (17.7 kg)

A1068



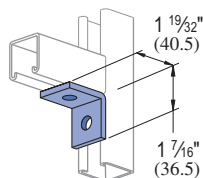
Wt/100 pcs: 27 Lbs (12.2 kg)

A1326

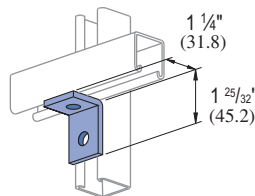


Wt/100 pcs: 34 Lbs (15.4 kg)

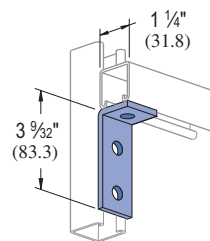
A1458



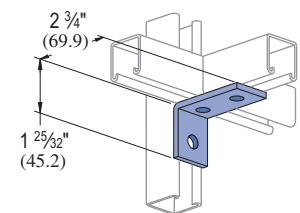
Wt/100 pcs: 17 Lbs (7.7 kg)



Wt/100 pcs: 17 Lbs (7.7 kg)



Wt/100 pcs: 27 Lbs (12.2 kg)



Wt/100 pcs: 27 Lbs (12.2 kg)

Standard Dimensions for 1/4" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10mm); Hole Spacing - From End: 5/8" (16 mm); Hole Spacing - On Center: 1 1/2" (38mm); Width: 1 1/4" (32mm); Thickness: 3/16" (5mm)



1 1/2" System

1 1/4" System

1 3/16" System

Fiberglass System

Special Metals

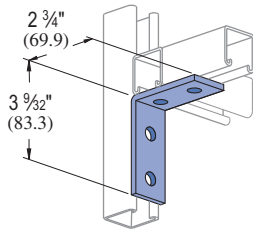
Prime Angle

Metal Grating

Roofwalk

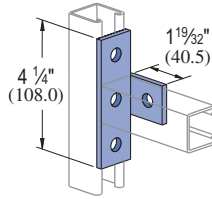
Index

A1325



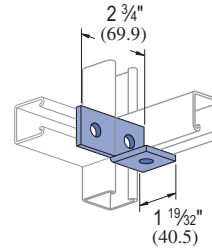
Wt/100 pcs: 38 Lbs (17.2 kg)

A1033



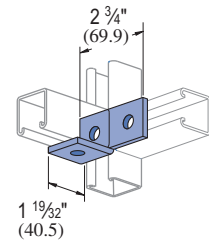
Wt/100 pcs: 34 Lbs (15.4 kg)

A1037



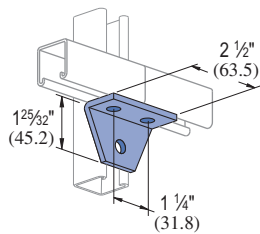
Wt/100 pcs: 30 Lbs (13.6 kg)

A1038



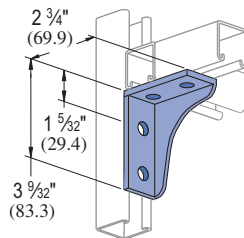
Wt/100 pcs: 30 Lbs (13.6 kg)

A1357



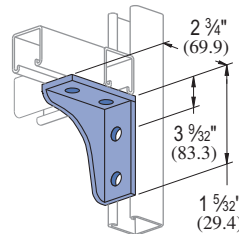
Wt/100 pcs: 30 Lbs (13.6 kg)

A1331



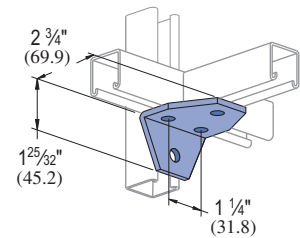
Wt/100 pcs: 75 Lbs (34.0 kg)

A1332



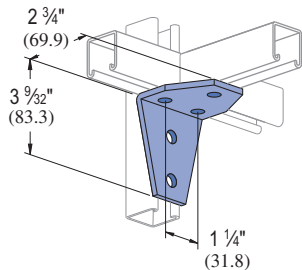
Wt/100 pcs: 75 Lbs (34.0 kg)

A1579



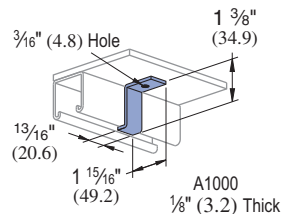
Wt/100 pcs: 44 Lbs (20.0 kg)

A2235



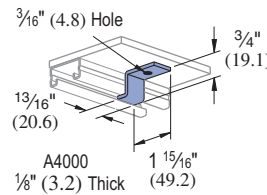
Wt/100 pcs: 59 Lbs (26.8 kg)

A2120



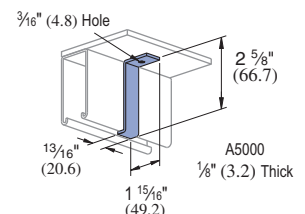
Wt/100 pcs: 9 Lbs (4.1 kg)

A4120



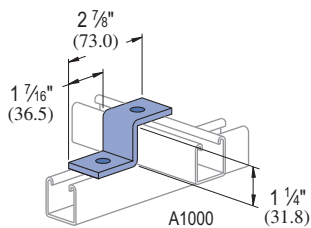
Wt/100 pcs: 7 Lbs (3.2 kg)

A5120



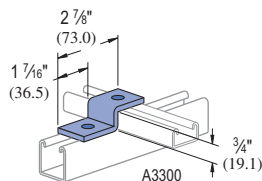
Wt/100 pcs: 13 Lbs (5.9 kg)

A1045



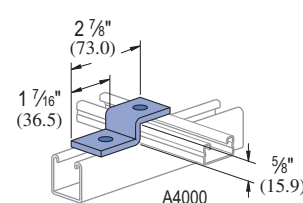
Wt/100 pcs: 25 Lbs (11.3 kg)

A3345



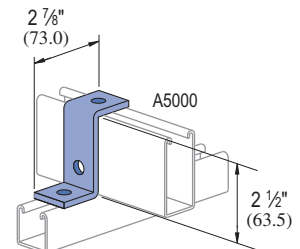
Wt/100 pcs: 23 Lbs (10.4 kg)

A4045



Wt/100 pcs: 21 Lbs (9.5 kg)

A5045

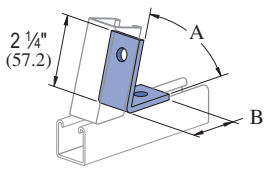


Wt/100 pcs: 33 Lbs (15.0 kg)

Standard Dimensions for 1 1/4" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10mm); Hole Spacing - From End: 5/8" (16 mm); Hole Spacing - On Center: 1 1/2" (38= mm); Width: 1 1/4"(32mm); Thickness: 3/16" (5mm)

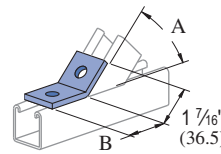
A2109, A2110, A2111



Part Number	A Degree (rad)	B In (mm)
A2109	52½° 0.92	1 ²⁵ / ₃₂ 45.2
A2110	45° 0.79	1¼ 44.5
A2111	37½° 0.65	1¼ 44.5

Wt/100 pcs: 23 Lbs (10.4 kg)

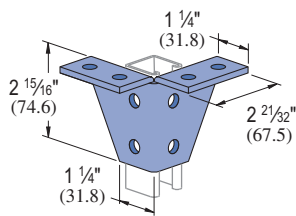
A2125, A2126, A2127



Part Number	A Degree (rad)	B In (mm)
A2125	52½° 0.92	1¼ 31.8
A2126	45° 0.79	1¼ 31.8
A2127	37½° 0.65	1 ¹ / ₃₂ 32.5

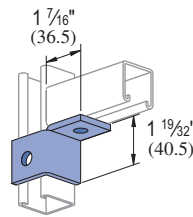
Wt/100 pcs: 17 Lbs (7.7 kg)

A2084



Wt/100 pcs: 90 Lbs (40.8 kg)

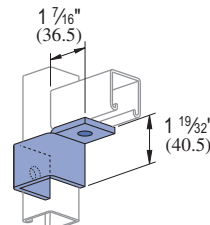
A2341 R-L



R-As shown
L-Opposite hand

Wt/100 pcs: 26 Lbs (11.8 kg)

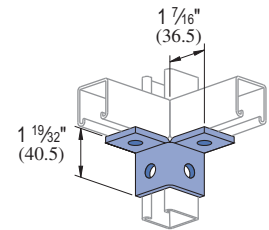
A2472 R-L



R-As shown
L-Opposite hand

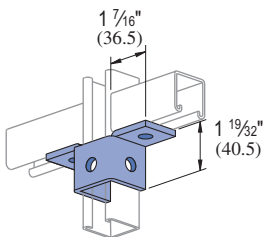
Wt/100 pcs: 33 Lbs (15.0 kg)

A2223



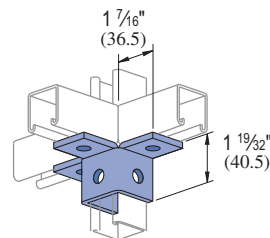
Wt/100 pcs: 34 Lbs (15.4 kg)

A2345



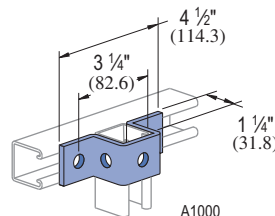
Wt/100 pcs: 41 Lbs (18.6 kg)

A2227



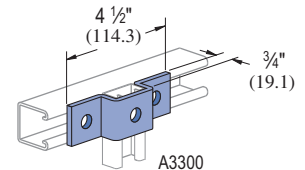
Wt/100 pcs: 52 Lbs (23.6 kg)

A1047



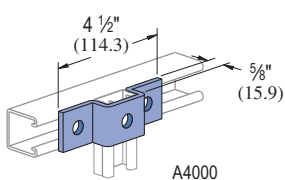
Wt/100 pcs: 43 Lbs (19.5 kg)

A3347



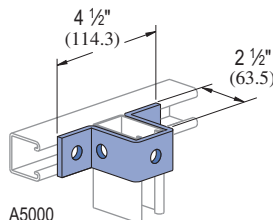
Wt/100 pcs: 37 Lbs (16.8 kg)

A4047



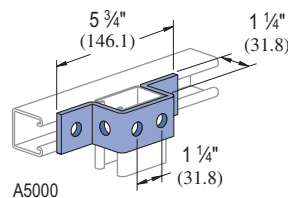
Wt/100 pcs: 34 Lbs (15.4 kg)

A5047



Wt/100 pcs: 58 Lbs (26.3 kg)

A5043



Wt/100 pcs: 50 Lbs (22.7 kg)

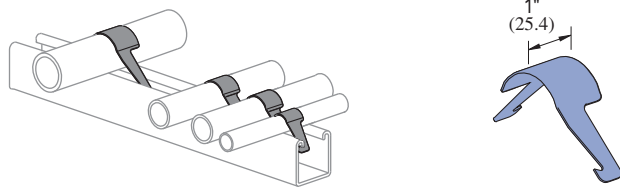
Standard Dimensions for 1¼" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 1³/₃₂" (10mm); Hole Spacing - From End: 5⁄8" (16 mm); Hole Spacing - On Center: 1½" (38mm); Width: 1¼"(32mm); Thickness: 3⁄16" (5mm)



A2608 THRU A2617

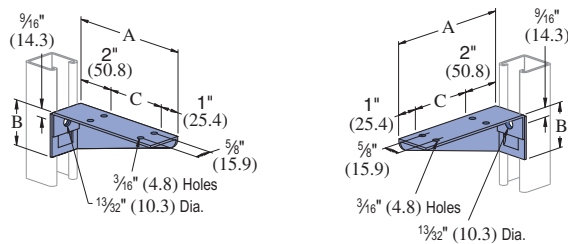
UNI-CLIP®



Stainless steel, Type 301.

Part Number	Pipe Size In (mm)	O.D. Size In (mm)	Wt/100 pcs Lbs (kg)
A2608	¼ 6.4	0.540 13.7	0.6 0.3
A2609	⅜ 9.5	0.675 17.1	0.7 0.3
A2611	½ 12.7	0.840 21.3	1.0 0.5
A2612	¾ 19.1	1.050 26.7	1.4 0.6
A2613	1 25.4	1.315 33.4	2.0 0.9
A2614	1¼ 31.8	1.660 42.2	2.4 1.1
A2615	1½ 38.1	1.900 48.3	3.2 1.5
A2617	2 50.8	2.375 60.3	4.7 2.1

A2491 R-L, A2492 R-L, A2493 R-L



Right

Left

Part Number	A In (mm)	B In (mm)	C In (mm)	Wt/100 pcs Lbs (kg)
A2491 R-L	6 152.4	2 50.8	3 76.2	38 17.2
A2492 R-L	8 203.2	2½ 63.5	5 127.0	56 25.4
A2493 R-L	10 254.0	3 76.2	7 177.8	73 33.1

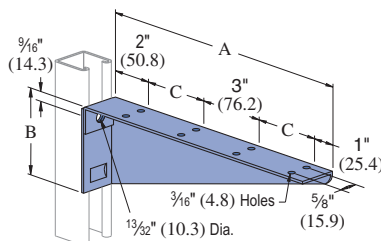
Design Uniform Load
(Channel Upright Listed)

A1000 200 Lbs (.89 kN)
A4000 130 Lbs (.58 kN)

Safety Factor of 2½

Material: 14 Gauge Steel.

A2494 R-L THRU A2497 R-L



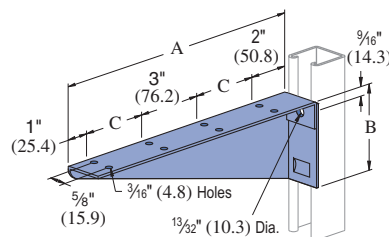
Right

Design Uniform Load
(Channel Upright Listed)
A1000 200 Lbs (.89 kN)
A4000 130 Lbs (.58 kN)
Safety Factor of 2½

Part Number	A In (mm)	B In (mm)	C In (mm)	Wt/100 pcs Lbs (kg)
A2494 R-L	12 304.8	3½ 88.9	3 76.2	94 42.6
A2495 R-L	14 355.6	4 101.6	4 101.6	105 47.6
A2496 R-L	16 406.4	4½ 114.3	5 127.0	145 65.8
A2497 R-L	18 457.2	5 127.0	6 152.4	175 79.4

Left

Material: 14 Gauge Steel.



Standard Dimensions for 1¼" (32 mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 13/32" (10mm); Hole Spacing - From End: 5/8" (16 mm); Hole Spacing - On Center: 1½" (38 mm); Width: 1¼" (32mm); Thickness: 3/16" (5mm)