



OEG BUILDING MATERIALS - METAL FRAMING MANUFACTURERS

6001 BORDENTOWN AVE, SAYREVILLE, NJ 08872

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## PRODUCT

Strut Channel - Back to Back

## MEMBER#

314SC14-B2B

## GAUGE

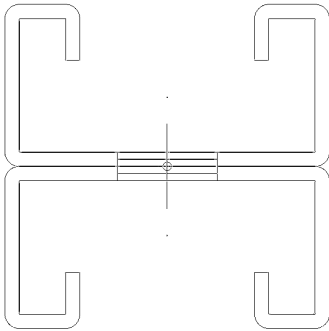
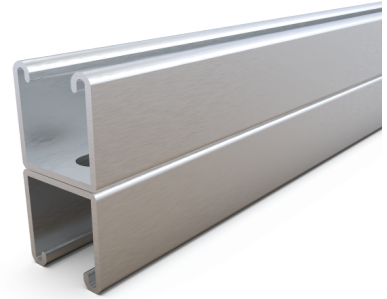
14

## PHYSICAL PROPERTIES

Web Depth	1.625
Flange	3-1/4
Return	0.375
Weight (plf)	4.3238
Area (in <sup>2</sup> )	1.2717

## GROSS PROPERTIES

Net Area (at 0.56" Hole) (in <sup>2</sup> )	1.2004
Moment of Intertia Iy (in <sup>4</sup> )	0.6347
Section Modulus Sy (in <sup>3</sup> )	0.7812
Radius of Gyration ry (in)	0.7272
Moment of Intertia Ix (in <sup>4</sup> )	4.6333
Section Modulus Sx (top) (in <sup>3</sup> )	1.4256
Radius of Gyration rx (in)	1.9646



## DISCLAIMER:

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## BEAM LOADING

Span (in)	Max. Allow Uniform (fully braced) plf	Max. Allow. Uniform Load (plf)	Deflection at max load (in)	Max Uniform Load at Deflection (plf)			Max Allowable Moment at Span (lb-ft)
				L/180	L/240	L/360	
24	5884	5884.0	0.02	5883.8	5883.8	5883.8	2942
36	2615	2615.0	0.03	2615.0	2615.0	2615.0	2942
48	1471	1471.0	0.06	1471.0	1471.0	1471.0	2942
60	941	941.0	0.10	941.4	941.4	941.4	2942
72	654	591.0	0.14	653.8	653.8	653.8	2660
84	480	367.0	0.19	480.3	480.3	480.3	2245
96	368	228.0	0.25	367.7	367.7	367.7	1823
108	291	149.0	0.31	290.6	290.6	277.8	1509
120	235	102.0	0.39	235.4	235.4	202.5	1281
240	59	10.0	1.55	50.6	38.0	25.3	498

### NOTES:

- Complies with AISI S100-2016.
- Steel Material is A1003 Grade 50.
- Effective Properties incorporate.
- Strength increase from Cold Forming.
- Safety Factor for Beams is 1.67.
- Safety Factor for Columns is 1.80.

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## COLUMN LOADING

Span (in)	Max Column Load at Center of Gravity (lb)			
	K=0.65	K=0.80	K=1.0	K=1.2
24	23,869	23,869	23,869	23,869
36	23,869	23,869	22,106	19,897
48	23,521	21,377	18,416	15,243
60	21,193	18,416	14,436	10,975
72	18,785	15,243	10,975	8,444
84	16,298	12,201	8,777	6,917
96	13,665	9,972	7,351	5,927
108	11,406	8,444	6,372	5,072
120	9,750	7,351	5,673	4,108
144	7,593	5,927	4,108	KL/r>200
240	KL/r>200	KL/r>200	KL/r>200	KL/r>200

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