



PRODUCT
Strut Channel

MEMBER#
1316SC12

GAUGE
12

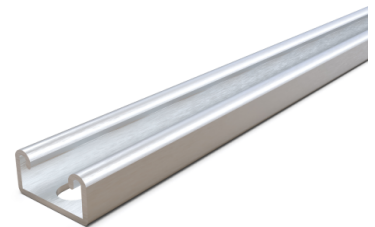
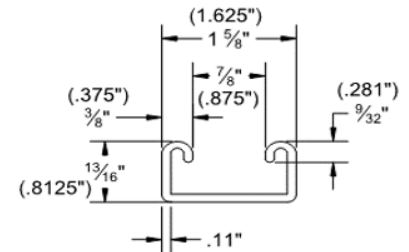
COATING
G60

PHYSICAL PROPERTIES

Web Depth	1.625
Flange	13/16
Return	0.375
Weight (plf)	1.314
Area (in ²)	0.3865
Coating	G60

GROSS PROPERTIES

Net Area (at 0.56" Hole) (in ²)	0.3296
Moment of Intertia Iy (in ³)	0.1388
Section Modulus Sy (in ²)	0.1708
Radius of Gyration ry (in)	0.6489
Moment of Intertia Ix (in ³)	0.02674
Section Modulus Sx (top) (in ²)	0.06322
Section Modulus Sx (bot) (in ²)	0.06864
Radius of Gyration rx (in)	0.2848



DISCLAIMER:

All data, detail and specifications included in herein are intended as a general guide for using OEG Building Materials products. These products should not be used in design or construction without evaluation by a qualified engineer or architect to determine their suitability for a specific use. OEG Building Materials assumes no liability for failure resulting from use or misapplication of computation, details or specifications contained herein. OEG Building Material assumes no liability for damages resulting from improper application or insulation of these products.



BEAM LOADING

Span (in)	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	
18	728.9	0.11	692.5	519.4	346.3	205
24	410.0	0.19	292.2	219.1	146.1	205
36	176.9	0.41	86.6	64.9	43.3	199
48	96.0	0.70	36.5	27.4	18.3	192
60	59.8	1.07	18.7	14.0	9.3	187
72	40.7	1.50	10.8	8.1	5.4	183
84	29.1	1.99	6.8	5.1	3.4	178
96	21.8	2.54	4.6	3.4	2.3	174
108	16.8	3.14	3.2	2.4	1.6	170
120	13.2	3.77	2.3	1.8	1.2	165

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
18	10,273	9,610	8,782	8,053
24	9,324	8,527	7,623	6,881
36	7,726	6,881	5,982	5,233
48	6,558	5,721	4,779	871
60	5,657	4,779	KL/r>200	KL/r>200
72	4,890	KL/r>200	KL/r>200	KL/r>200
84	4,190	KL/r>200	KL/r>200	KL/r>200
96	KL/r>200	KL/r>200	KL/r>200	KL/r>200
108	KL/r>200	KL/r>200	KL/r>200	KL/r>200
120	KL/r>200	KL/r>200	KL/r>200	KL/r>200
144	KL/r>200	KL/r>200	KL/r>200	KL/r>200

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