



PRODUCT
Strut Channel

MEMBER#
1316SC14

GAUGE
14

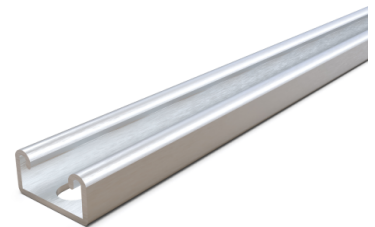
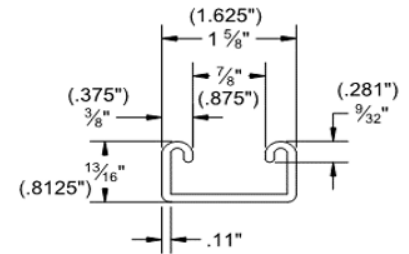
COATING
G60

PHYSICAL PROPERTIES

Web Depth	1.625
Flange	13/16
Return	0.375
Weight (plf)	0.91344
Area (in ²)	0.287
Coating	G60

GROSS PROPERTIES

Net Area (at 0.56" Hole) (in ²)	0.24686
Moment of Intertia Iy (in ³)	0.1064
Section Modulus Sy (in ²)	0.131
Radius of Gyration ry (in)	0.2975
Moment of Intertia Ix (in ³)	0.02185
Section Modulus Sx (top) (in ²)	0.0525
Section Modulus Sx (bot) (in ²)	0.05516
Radius of Gyration rx (in)	0.2975



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	579.6	0.10	565.9	424.4	282.9	163
24	320.0	0.18	238.7	179.0	119.4	160
36	129.8	0.37	70.7	53.1	35.4	146
48	67.5	0.60	29.8	22.4	14.9	135
60	40.3	0.88	15.3	11.5	7.6	126
72	26.4	1.20	8.8	6.6	4.4	119
84	18.4	1.55	5.6	4.2	2.8	113
96	13.3	1.89	3.7	2.8	1.9	106
108	10.0	2.28	2.6	2.0	1.3	101
120	7.7	2.68	1.9	1.4	1.0	96

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	7,013	6,261	5,243	4,283
24	5,920	4,914	3,698	2,730
36	3,840	2,730	1,888	1,401
48	2,389	1,699	1,179	871
60	1,656	1,179	KL/r>200	KL/r>200
72	1,229	871	KL/r>200	KL/r>200
84	952	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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