



PRODUCT
Strut Channel

MEMBER#
158SC14

GAUGE
14

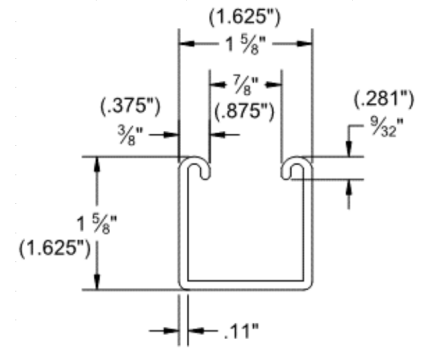
COATING
G60

PHYSICAL PROPERTIES

Web Depth	1.625
Flange	1.625
Return	0.375
Weight (plf)	1.369
Area (in ²)	0.40265
Coating	G60

GROSS PROPERTIES

Net Area (at 0.56" Hole) (in ²)	0.36272
Moment of Intertia I _y (in ⁴)	0.1764
Section Modulus S _y (in ³)	0.217
Radius of Gyration r _y (in)	0.6974
Moment of Intertia I _x (in ⁴)	0.124
Section Modulus S _x (top) (in ³)	0.15237
Section Modulus S _x (bot) (in ³)	0.15291
Radius of Gyration r _x (in)	0.5847



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	1336.9	0.04	1336.9	1336.9	1336.9	376
24	752.0	0.07	752.0	752.0	677.4	376
36	330.7	0.16	330.7	301.1	200.7	372
48	145.0	0.23	145.0	127.0	84.7	290
60	64.0	0.25	64.0	64.0	43.4	200
72	39.8	0.32	39.8	37.6	25.1	179
84	25.0	0.37	25.0	23.7	15.8	153
96	17.0	0.43	17.0	15.9	10.6	136
108	12.2	0.49	12.2	11.2	7.4	124
120	9.2	0.57	9.2	8.1	5.4	115

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	10,599	9,930	8,944	7,914
24	9,610	8,602	7,231	5,935
36	7,400	5,935	4,270	3,195
48	5,339	3,845	2,726	2,107
60	3,751	2,726	1,995	1,581
72	2,830	2,107	1,581	1,274
84	2,267	1,722	1,316	1,071
96	1,894	1,462	1,131	922
108	1,631	1,274	991	KL/r>200
120	1,436	1,131	KL/r>200	KL/r>200
144	1,163	922	KL/r>200	KL/r>200

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