OEG BUILDING MATERIALS - METAL FRAMING MANUFACTURERS
6001 BORDENTOWN AVE, SAYREVILLE, NJ 08872
P 732.667.3636 I WWW.OEGUSA.COM I ORDERS@OEGUSA.COM

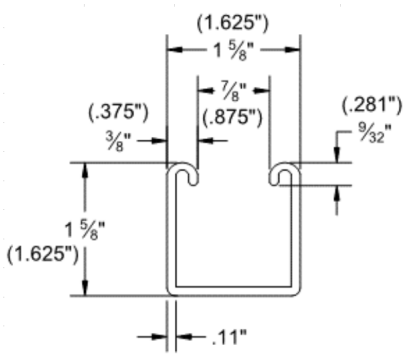
PRODUCT	MEMBER#	GAUGE	COATING
Strut Channel	158SC12	12	G60

PHYSICAL PROPERTIES

Web Depth	1.625
Flange	1.625
Return	0.375
Weight (plf)	1.8761
Area (in^2)	0.5518
Coating	G60

GROSS PROPERTIES

Net Area (at 0.56" Hole) (in^2)	0.49485
Moment of Intertia Iy (in^3)	0.2348
Section Modulus Sy (in^2)	0.289
Radius of Gyration ry (in)	0.6888
Moment of Intertia Ix (in^3)	0.1605
Section Modulus Sx (top) (in^2)	0.1947
Section Modulus Sx (bot) (in^2)	0.20037
Radius of Gyration rx (in)	0.5694



DISCAIMER:

OEG BUILDING MATERIALS - METAL FRAMING MANUFACTURERS
6001 BORDENTOWN AVE, SAYREVILLE, NJ 08872
P 732.667.3636 I WWW.OEGUSA.COM I ORDERS@OEGUSA.COM

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	2243.6	0.05	2243.6	2243.6	2078.4	631
24	1202.0	0.09	1202.0	1202.0	876.8	601
36	464.0	0.18	464.0	389.7	259.8	522
48	226.0	0.27	219.2	164.4	109.6	452
60	126.7	0.38	112.2	84.2	56.1	396
72	77.6	0.48	64.9	48.7	32.5	349
84	51.1	0.58	40.9	30.7	20.5	313
96	36.0	0.70	27.4	20.6	13.7	288
108	26.5	0.83	19.2	14.4	9.6	268
120	20.1	0.95	14.0	10.5	7.0	251

NOTES:

- Complies with AISI S100-2016.
- Steel Materal 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.

DISCAIMER:

OEG BUILDING MATERIALS - METAL FRAMING MANUFACTURERS
6001 BORDENTOWN AVE, SAYREVILLE, NJ 08872
P 732.667.3636 I WWW.OEGUSA.COM I ORDERS@OEGUSA.COM

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	14,365	13,348	11,914	10,492
24	12,874	11,434	9,589	7,952
36	9,810	7,952	5,962	4,689
48	7,228	5,462	4,122	3,346
60	5,350	4,122	3,200	2,637
72	4,249	3,346	2,637	2,177
84	3,551	2,835	2,243	1,840
96	3,068	2,464	1,943	1,577
108	2,708	2,177	1,701	KL/r>200
120	2,425	1,943	KL/r>200	KL/r>200
144	1,997	KL/r>200	KL/r>200	KL/r>200

NOTES:

- Complies with AISI S100-2016.
- Steel Materal 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.

DISCAIMER: