ClarkWestern Building Systems

CW Tech Support: (888) 437-3244
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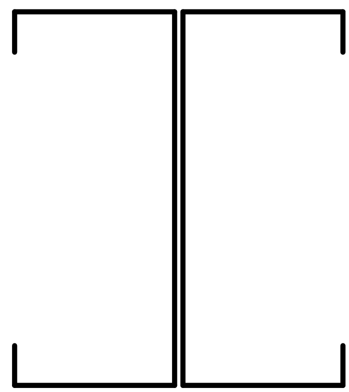
2007 North American Specification ASD
DATE: 11/15/2017
Bldg A 2nd Floor

SECTION DESIGNATION: 1600S250-97 [50] (2) Back-to-Back



Section Dimensions:

Web Height =	16.000 in
Top Flange =	2.500 in
Bottom Flange =	2.500 in
Stiffening Lip =	0.625 in
Inside Corner Radius =	0.1526 in
Punchout Width =	1.500 in
Punchout Length =	4.000 in
Design Thickness =	0.1017 in

Steel Properties:

Fy =	50.000 ksi
Fu =	65.000 ksi
Fya =	50.000 ksi

Gross Properties

A(gross)	Weight	A(net)	Sxx	Ixx	Rx	Iyy	Ry
(in^2)	(lb/ft)	(in^2)	(in^3)	(in^4)	(in)	(in^4)	(in)
4.3719	14.8765	4.0668	8.6845	138.9525	5.6377	3.1818	0.8531

Effective Properties

Ixx(defl)	Sxx	Ma-xx	Ma-x(dist)	Vag	Vanet
(in^4)	(in^3)	(Ft-Lb)	(Ft-Lb)	(lb)	(lb)
134.7860	13.9654	34843.8	29767.3	12087	12087

K-phi for Distortional Buckling = 0.00 lb*in/in

Lateral Buckling Properties for Flexure

Moment of Inertia of Compression Portion (Iyc) = 1.5909 in^4

Web Crippling - Allowable Loads, Pa (lb) Total for (2) Members

End Bearing Length = 1.00 (in)
Interior Bearing Length = 3.50 (in)

Cond. 1 (E1F)	Cond. 2 (I1F)	Cond. 3 (E2F)	Cond. 4 (I2F)
7947	12745	4517	11475

Punchout Reduction Factor Cond. 1, Rc(E1F) = 0.979 + 0.083x/h <= 1.0
Punchout Reduction Factor Cond. 2, Rc(I1F) = 0.895 + 0.053x/h <= 1.0