

ENVIRO-CORNER_{TM} SECTION PROPERTIES TABLE

EC8-43-8

8" WALL THICKNESS

Steel thickness: 43 mil (0.0451 in - 18 ga)

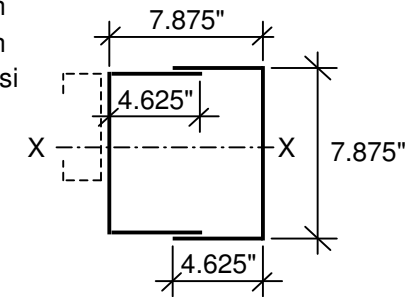
Flange Width: 4.625 in

Web Depth: 7.875 in

Fy: 33 ksi

Section Properties:

Gross:	I_{xx} :	16.011 in ⁴	
	S_{xx} :	4.067 in ³	
	A:	1.525 in ²	
	r_x :	3.240 in	
	r_y :	3.060 in	
Effective:	I_{xx} :	14.75 in ⁴	(Deflection)
	S_{xx} :	3.259 in ³	(Flexure)
	A_e :	1.379 in ²	(Effective Area at Fy)
	y_{cg} :	4.302 in	(Distance to Neutral Axis from Top Compression Fiber)



Notes:

1. Section properties are based on the 2001 NAS Specification.
2. Check End Reaction for Web Crippling.
3. Load bearing corner studs are to be designed for combined axial and bending loads by a qualified professional.
4. Strength increase due to cold work of forming has not been incorporated.
5. The effective Moment of Inertia has been calculated for deflection based on Procedure 1 of the 2001 NAS Specification by using the stress at the effective section modulus of the allowable bending moment.