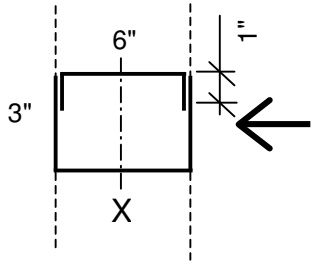
ENVIRO-KING$_{TM}$ SECTION PROPERTIES TABLE

EK3-68-6

6" WALL THICKNESS

Steel thickness: 68 mil (0.0713 in - 14 ga)

Flange Width:	3.0	in
Web Depth:	6.0	in
Fy:	50	ksi



Section Properties:

Gross:	I_{xx}:	7.090	in^4	
	S_{xx}:	2.365	in^3	
	A:	1.378	in^2	
	r_x:	2.268	in	
	r_y:	1.262	in	
Effective:	I_{xx}:	7.090	in^4	(Deflection)
	S_{xx}:	2.241	in^3	(Flexure)
	A_e:	1.351	in^2	(Effective Area at Fy)
	y_{cg}:	3.057	in	(Distance to Neutral Axis from Top Compression Fiber)
	Ma:	5592	lb-ft	(Max. Allowable Bending Moment)
	Va:	5350	lb	(Max. Allowable Beam Shear)

Notes:

1. Section properties are based on the 2001 NAS Specification.
2. Check End Reaction for Web Crippling.
3. Bending capacities are based on the assumption that the compression flange is adequately laterally braced on both sides.
4. Allowable Moment and Shear Values are calculated assuming a negligible axial load. Load bearing jamb studs are to be designed for combined axial and bending loads by a qualified professional.
5. Strength increase due to cold work of forming has not been incorporated.
6. 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.