

# ENVIRO-BEAM™ SPAN/LOAD TABLE

**EB6-1.5-68**

**6 " DEPTH**

Steel Shape <sup>1</sup> (2) 600T150-68

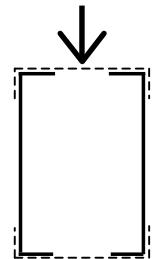
Steel thickness: 68 mil (0.0713 in - 14 ga)

Flange Width: 1.5 in

Section Properties: I: 6.32 in<sup>4</sup>  
S: 1.78 in<sup>3</sup>

Fy: 50 ksi

Max. Allowable Bending Moment <sup>6</sup> : Ma: 4446 lb-ft  
Max. Allowable Beam Shear: Va: 10701 lb



Span <sup>3</sup> (ft)	Maximum Allowable Uniformly Distributed Vertical Loads <sup>2</sup> Pounds per Lineal Foot (lb/ft)					Deflection Due to Critical Load (in)	
	Load Controlled by:			Critical Uniformly Distributed Load <sup>4,5,6,7</sup>	S, B or L/240	L/360	
	Shear	Bending <sup>6</sup>	Deflection L/240    L/360				
3	7134	3952	15089	10059	<b>3952</b>	0.04	
4	5350	2223	6366	4244	<b>2223</b>	0.07	
5	4280	1423	3259	2173	<b>1423</b>	0.11	
6	3567	988	1886	1257	<b>988</b>	0.16	
7	3057	726	1188	792	<b>726</b>	0.21	
8	2675	556	796	530	<b>556</b> <b>530 *</b>	0.28	0.27
9	2378	439	559	373	<b>439</b> <b>373 *</b>	0.35	0.30
10	2140	356	407	272	<b>356</b> <b>272 *</b>	0.44	0.33
11	1946	294	306	204	<b>294</b> <b>204 *</b>	0.53	0.37
12	1783	247	236	157	<b>236 **</b> <b>157 *</b>	0.60	0.40

\* Deflection controls for L/360 Condition

\*\* Deflection controls for L/240 Condition

Notes:

- Section designations and geometry are based on standard shapes defined by the Steel Stud Manufacturers Association (SSMA). Section properties are based on the 2001 NAS Specification.
- All loads are service loads
- Tables are extended to a maximum span/depth ratio of 24.
- Critical Load is the lowest uniform load capacity based on Bending, Shear or Deflection.
- Top and bottom tracks are required for proper stability of Enviro-Beam headers. Top and bottom tracks are not a part of the Enviro-Beam header and must be designed by a qualified professional and be properly fastened to the flanges of the Enviro-Beam. As a minimum, top and bottom tracks shall be at least the same gauge as the Enviro-Beam header.
- Bending capacities are based on the assumption that the compression flange is adequately laterally braced by a top track section. Lateral (wind or seismic) loads are assumed to be resisted by the top and bottom tracks and not by the Enviro-Beam header itself.
- When Enviro-Beam header is supported by bearing on steel studs, stiffened end is required to resist web crippling. When end support is by screwed side plate connectors, stiffened end is not required. See stiffened end detail.