ENVIRO-BEAM$_{TM}$ SPAN/LOAD TABLE

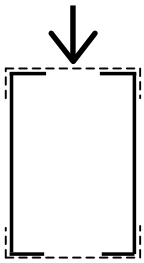
EB12-1.5-118 **12 " DEPTH**

Steel Shape [1] (2) 1200T150-118

Steel thickness: 118 mil (0.0713 in - 10 ga) Flange Width: 1.5 in

Section Properties: I: 63.65 in^4 Fy: 50 ksi
S: 9.73 in^3

Max. Allowable Bending Moment [6] : Ma: 24277 lb-ft
Max. Allowable Beam Shear: Va: 28868 lb



Span [3] (ft)	**Maximum Allowable Uniformly Distributed Vertical Loads** [2] Pounds per Lineal Foot (lb/ft)						**Deflection Due to Critical Load** (in)	
	Load Controlled by:				**Critical Uniformly Distributed Load** [4,5,6,7]			
	Shear	**Bending** [6]	**Deflection**				**S, B or L/240**	**L/360**
			L/240	**L/360**				
6	9623	5395	18990	12660	**5395**		0.09	
7	8248	3964	11959	7972	**3964**		0.12	
8	7217	3035	8011	5341	**3035**		0.15	
9	6415	2398	5627	3751	**2398**		0.19	
10	5774	1942	4102	2735	**1942**		0.24	
11	5249	1605	3082	2055	**1605**		0.29	
12	4811	1349	2374	1582	**1349**		0.34	
13	4441	1149	1867	1245	**1149**		0.40	
14	4124	991	1495	997	**991**		0.46	
15	3849	863	1215	810	**863**	**810** *	0.53	0.50
16	3609	759	1001	668	**759**	**668** *	0.61	0.53
17	3396	672	835	557	**672**	**557** *	0.68	0.57
18	3208	599	703	469	**599**	**469** *	0.77	0.60
19	3039	538	598	399	**538**	**399** *	0.85	0.63
20	2887	486	513	342	**486**	**342** *	0.95	0.67
21	2749	440	443	295	**440**	**295** *	1.04	0.70
22	2624	401	385	257	**385**	**257** *	1.10	0.73
23	2510	367	337	225	**337**	**225** *	1.15	0.77
24	2406	337	297	198	**297**	**198** *	1.20	0.80

* Deflection controls for L/360 condition

Notes:

1. 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.
2. All loads are service loads
3. Tables are extended to a maximum span/depth ratio of 24.
4. Critical Load is the lowest uniform load capacity based on Bending, Shear or Deflection.
5. Top and bottom tracks are required for proper stability of Enviro-Beam headers. Top and bottom tracks are not a part of the Envio-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.
6. 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.
7. 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.