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

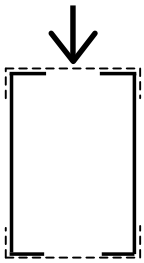
EB12-1.5-54 **12 " DEPTH**

Steel Shape [1] (2) 1200T150-54

Steel thickness: 54 mil (0.0566 in - 16 ga) Flange Width: 1.5 in

Section Properties: I: 24.04 in^4 Fy: 50 ksi
S: 2.63 in^3

Max. Allowable Bending Moment [6] : Ma: 6552 lb-ft
Max. Allowable Beam Shear: Va: 2709 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 L/240	Deflection L/360			S, B or L/240	L/360
6	903	1456	7172	4782	**903**		0.04	
7	774	1070	4517	3011	**774**		0.06	
8	677	819	3026	2017	**677**		0.09	
9	602	647	2125	1417	**602**		0.13	
10	542	524	1549	1033	**524**		0.17	
11	493	433	1164	776	**433**		0.20	
12	451	364	897	598	**364**		0.24	
13	417	310	705	470	**310**		0.29	
14	387	267	565	376	**267**		0.33	
15	361	233	459	306	**233**		0.38	
16	339	205	378	252	**205**		0.43	
17	319	181	315	210	**181**		0.49	
18	301	162	266	177	**162**	**162 ***	0.55	0.55
19	285	145	226	151	**145**	**145 ***	0.61	0.61
20	271	131	194	129	**131**	**129 ***	0.68	0.67
21	258	119	167	112	**119**	**112 ***	0.75	0.70
22	246	108	145	97	**108**	**97 ***	0.82	0.73
23	236	99	127	85	**99**	**85 ***	0.89	0.77
24	226	91	112	75	**91**	**75 ***	0.97	0.80

* Deflection controls for L/360 condition

Web-Height to thickness ratio exceeds 200. Flange-Bearing Web Stiffeners are required at all support points and concentrated loads. Stiffeners shall be designed by a qualified professional for the specific project conditions.

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.