

# ENVIRO-BEAM™ SPAN/LOAD TABLE

**EB14-1.5-118**

**14 " DEPTH**

Steel Shape <sup>1</sup> (2) 1400T150-118

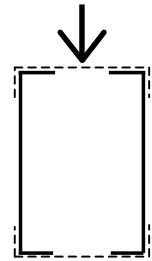
Steel thickness: 118 mil (0.0713 in - 10 ga)

Flange Width: 1.5 in

Section Properties: I: 93.82 in<sup>4</sup>  
S: 11.77 in<sup>3</sup>

Fy: 50 ksi

Max. Allowable Bending Moment <sup>6</sup> : Ma: 29374 lb-ft  
Max. Allowable Beam Shear: Va: 24689 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				
6	8230	6527	27992	18661	<b>6527</b>	0.07	
7	7054	4796	17628	11752	<b>4796</b>	0.10	
8	6172	3672	11809	7873	<b>3672</b>	0.12	
9	5486	2901	8294	5529	<b>2901</b>	0.16	
10	4938	2350	6046	4031	<b>2350</b>	0.19	
11	4489	1942	4543	3028	<b>1942</b>	0.24	
12	4115	1632	3499	2333	<b>1632</b>	0.28	
13	3798	1390	2752	1835	<b>1390</b>	0.33	
14	3527	1199	2203	1469	<b>1199</b>	0.38	
15	3292	1044	1791	1194	<b>1044</b>	0.44	
16	3086	918	1476	984	<b>918</b>	0.50	
17	2905	813	1231	820	<b>813</b>	0.56	
18	2743	725	1037	691	<b>725</b>	0.63	0.60
19	2599	651	882	588	<b>651</b>	0.70	0.63
20	2469	587	756	504	<b>587</b>	0.78	0.67
21	2351	533	653	435	<b>533</b>	0.86	0.70
22	2244	486	568	379	<b>486</b>	0.94	0.73
23	2147	444	497	331	<b>444</b>	1.03	0.77
24	2057	408	437	292	<b>408</b>	1.12	0.80
25	1975	376	387	258	<b>376</b>	1.21	0.83
26	1899	348	344	229	<b>344</b>	1.30	0.87
27	1829	322	307	205	<b>307</b>	1.35	0.90
28	1764	300	275	184	<b>275</b>	1.40	0.93

\* Deflection controls for L/360 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.