

Hef-T¹ Aluminum Ceiling Support System^{5,6}

Allowable Live Load Chart^{3,4,7,8,9} (psf)

Panel Thickness (in)	Tee Support Span ² (ft)	Panel Span (ft)								
		8	9	10	11	12	13	14	15	16
3"	4	46.6	39.5	31.7	25.8	21.3	18.1	15.0	12.6	10.5
	5	36.8	32.5	29.0	25.8	21.3	18.1	15.0	12.6	10.5
	6	30.3	26.7	23.8	21.4	19.4	17.8	15.0	12.6	10.5
	7	22.0	19.3	17.1	15.4	13.9	12.7	11.6	10.7	-
4"	4	46.4	41.0	36.6	33.1	30.1	26.1	22.2	20.0	17.3
	5	36.6	32.3	28.8	26.0	23.6	21.6	19.9	18.4	17.1
	6	30.1	26.5	23.6	21.2	19.3	17.6	16.2	14.9	13.8
	7	21.8	19.1	17.0	15.2	13.7	12.5	11.4	10.5	-
5"	4	46.2	40.8	36.5	32.9	30.0	27.4	25.3	21.9	20.0
	5	36.5	32.1	28.6	25.8	23.4	21.4	19.7	18.2	16.9
	6	30.0	26.3	23.4	21.1	19.1	17.4	16.0	14.7	13.7
	7	21.7	19.0	16.8	15.0	13.6	12.3	11.3	10.3	-
6"	4	46.1	40.6	36.3	32.7	29.8	27.3	25.1	23.3	21.1
	5	36.3	32.0	28.5	25.6	23.3	21.3	19.5	18.1	16.8
	6	29.8	26.2	23.3	20.9	18.9	17.3	15.8	14.6	13.5
	7	21.5	18.8	16.6	14.9	13.4	12.2	11.1	10.2	-

Notes

- 5" flange (3/16" thick), 3" web (1/4" thick") supplied by Metl-Span.
- Rod Spacing.
- Based on testing CF-45, Light Mesa panel with 26 ga. exterior & interior face (min Fy = 33 ksi) with single span condition over aluminum tee beam.
- Applicable to panel widths of 44.5" or narrower with mesa or light mesa profiles.
- Aluminum tee beams (6063-T6) are supported by 3/8" diameter hanging rods (min 60 ksi).
- The allowable stresses for tee beam were calculated in accordance with 2005 and 2010 Aluminum Design Manual for use with IBC 2009 and 2012, respectively.
- The allowable loads are calculated with the following safety factors: 2.5 for panel bending failure for live loads >20 psf. 2.0 for panel bending failure for live loads ≤20 psf. 3.0 for panel shear failure and 3.0 for hanger rod connection failure.
- W = Allowable uniform live load (psf). Panel (dead) weight has been deducted from the above loads.
- The structural capacity of the panel assembly, tee beam hanger, tee beam connection to rod, and rod are considered.
- All other structural support members and connections must be examined independently.