US

CF Ceiling Panel System
Supported by Hef-T System

Panel Thickness (in)	Tee Support Span (ft)	Allowable Live Load (psf)								
		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	27.4	25.3	21.9	20
	5	36.5	32.1	28.6	25.8	23.4	21.4	19.7	18.2	16.9
	6	30	26.3	23.4	21.1	19.1	17.4	16	14.7	13.7
	7	21.7	19	16.8	15	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	-
8"	4	43.5	38.2	34.2	30.9	27.9	25.7	23.5	21.9	20.0
	5	32.4	28.4	25.3	22.7	20.7	18.0	17.2	16.0	14.8
	6	24.5	21.4	19.1	17.0	15.4	14.0	12.8	11.8	11.1
	7	17.6	15.3	13.4	12.1	10.8	10.0	9.0	8.1	-

Notes

1. Based on testing CF45LL panel with 26 ga. exterior & interior face (min F_y = 33 ksi) with single span condition over aluminum tee beam.
2. Applicable to panel widths of 44.5" or smaller with mesa, light mesa or flute profiles.
3. Aluminum tee beams (6063-T6) are supported by 3/8" diameter hanging rods (min 60 ksi).
4. The allowable stresses for tee beam were calculated in accordance with 2005, 2010 and 2015 Aluminum Design Manual for use with IBC 2009, 2012 and 2015, respectively.
5. The allowable loads are calculated with the following safety factors:
   a. 2.5 for panel bending failure for LL > 20 psf
   b. 2.0 for panel bending failure for LL =< 20 psf
   c. 3.0 for panel core shear
   d. 3.0 for hanger rod connection failure.
6. W = Allowable uniform live load (psf). Panel (dead) weight has been deducted from the above loads.
7. The structural capacity of the beam supporting tee beam hanger and rods are not considered and must be examined independently.

8. incremental decrease in live load capacity per span (as panels increase in thickness), is due to increased DL of the Panel as it thickens".

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