



## ISOLEREN TECHNICAL BULLETIN: CEILING TEE ALLOWABLE LOADS

### PRODUCT:

Aluminum Tee Ceiling Support  
 Description: 4x2 Extruded Structural Tee  
 Material: 6061-T6 Aluminum Alloy  
 Length: 16 ft.  
 Factory Modifications: pre-punched holes

Isoleren Insulated Metal Wall Panels  
 Isoleren Profiles: ML, SL, WL, IM, TE  
 Width: 42-inch or narrower  
 Thickness: 2, 2.5, 3, 4, 5, 6-inch  
 Gauge: 26-gauge or heavier (facer and liner)  
 Finish: Embossed or Smooth

### ALLOWABLE LOADS (PSF):

Panel Thickness (in.)	Tee Span (Rod Spacing, ft.)	Panel Span (ft.)								
		8	9	10	11	12	13	14	15	16
3	4	40.82	36.02	32.19	29.05	26.44	24.23	17.77		
	5	32.19	28.36	25.29	22.78	20.69	18.92	17.40		
	6	24.14	21.20	18.85	16.93	15.32	13.97	12.80		
	7	16.70	14.59	12.90	11.52	10.36				
4	4	40.61	35.81	31.98	28.84	26.23	24.02	22.12	20.48	19.04
	5	31.98	28.15	25.08	22.57	20.48	18.71	17.19	15.88	14.73
	6	23.93	20.99	18.64	16.72	15.11	13.76	12.59	11.59	10.70
	7	16.49	14.38	12.69	11.31	10.15				
5	4	40.40	35.60	31.77	28.63	26.02	23.81	21.91	20.27	18.83
	5	31.77	27.94	24.87	22.36	20.27	18.50	16.98	15.67	14.52
	6	23.72	20.78	18.43	16.51	14.90	13.55	12.38	11.38	10.49
	7	16.28	14.17	12.48	11.10					
6	4	40.19	35.39	31.56	28.42	25.81	23.60	21.70	20.06	18.62
	5	31.56	27.73	24.66	22.15	20.06	18.29	16.77	15.46	14.31
	6	23.51	20.57	18.22	16.30	14.69	13.34	12.17	11.17	10.28
	7	16.07	13.96	12.27	10.89					

### NOTES:

- The above load table corresponds to a ceiling supported with pre-punched aluminum tees supplied by ATAS International, Inc.
- Allowable loads are for uniform span lengths.
- The above loads consider the panel self-weight.
- Above load table does not consider thermal effects.
- Allowable loads reflect a deflection limit of  $L/180$ .
- Maximum allowable tee cantilever is 2'-6".
- The ceiling support structure must be analyzed by a professional engineer to resist the imposed ceiling loads.**
- Above loads are null and void if the aluminum tee is not installed per Green Span details LT-CST-004 and LT-CTI-005.
- Any installation utilizing accessories other than those provided by Green Span Profiles shall nullify the above table.
- Table values consider the structural capacity of the panel assembly, aluminum tee, and the rod-end connection to the tee. All other accessories, including but not limited to hanger rods, couplings, etc. and their connections must be designed separately.
- The aluminum tee analysis was performed in accordance with the 2015 Aluminum Design Manual.
- Ceiling live loads should be kept at or below 20-psf with point loads  $\leq 300$ -lbs.
- WARNING - Avoid excessive foot traffic. Excessive foot traffic will, at a minimum, cause delamination and degrade panel performance.**

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