Four foot wide Acsys Standard 3" deep "T" panel - Allowable Loads (lbs/ft²)

Single Span		Span ft						
		10	11	12	13	14	15	16
Standard	Stress	49.82	45.15	40.48	35.81	31.14	26.47	21.80
20 gauge - 33 ksi	Deflection	49.76	44.97	40.17	35.38	30.59	25.79	21.00
Standard with	Stress	91.46	79.56	69.39	60.45	52.38	44.97	38.06
1/8" - 3" Tube Steel	Deflection	90.53	75.60	63.77	53.94	45.44	37.87	30.95
Standard with	Stress	106.90	92.32	80.12	69.58	60.26	51.84	44.09
3/16" - 3" Tube Steel	Deflection	105.64	86.95	72.51	60.81	50.95	42.35	34.64
Standard with	Stress	119.12	102.42	88.60	76.81	66.49	57.27	48.87
1/4" - 3" Tube Steel	Deflection	117.61	95.94	79.44	66.26	55.31	45.90	37.56

Notes on Load Table:

* The above load values were derived from linear interpolation based upon the "T" panel testing information for 10 foot and 16 foot single span conditions.
* Values for Multispan conditions are available on request.
* The above load values for the 1/8", 3/16" and 1/4" sqaure steel tube were calculated by adding the loads carried by the tube steel to the load carried by the "T" panel.
* The loads carried by the steel tube was calculated theoretically in accordance with AISI Specifications.
* For wind loads, the above loads can be increased by 33.33 % when permitted by the governing building code.
* Design load based on deflection are derived for a deflection limit of L/180.
* Design Loads based on test stress are calculated using a factor of safety of 1.67

Four foot wide Acsys Standard 3" deep "T" panel - Allowable Axial Loads (lbs/ft)

	Span ft						
	10	11	12	13	14	15	16
Standard	2448	2291	2121	1964	1782	1641	1515
1/8" - 3" Tube Steel	6594	6085	5552	5091	4582	4073	3685
3/16" - 3" Tube Steel	8436	7733	7006	6352	5673	5042	4509
1/4" - 3" Tube Steel	10085	9224	8339	7467	6618	5867	5224

Notes on Axial Loads Table:

* Axial loads are allowable concentric loads (KIPS) in the absence of bending moment. The weight of the section has not been subtracted from these values.
* Allowable axial loads assume the use of the plates or clips at supports which will effectively transfer support loads directly to the centriod of the member.
* All values are averaged for one foot of panel width (ie Total Panel and tube steel axial load divided by panel width)

Four foot wide Acsys Standard 3" deep "T" panel - Allowable Shear Loads (lbs/ft)

	Span ft						
	10	11	12	13	14	15	16
Standard	209	190	174	161	149	139	130
1/8" - 3" Tube Steel	209	190	174	161	149	139	130
3/16" - 3" Tube Steel	209	190	174	161	149	139	130
1/4" - 3" Tube Steel	209	190	174	161	149	139	130

Notes on Shear Load Table:

* These loads are based only on the panel in-plane shear strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
* Acsys can supply custom shear panels for areas where shear values exceed those in the table above.

Four foot wide Acsys Standard 3" deep Shear Panel "T" panel - Allowable Shear Loads (lbs/ft)

	Span ft										
	8	9	10	11	12	13	14	15	16	17	18
Allowable Shear lbs/ft	384	348	317	291	269	250	233	218	205	194	186
Lap Fastener Spacing (inches)	8	9	10	12	13	13	14	15	16	17	18
No. side lap fasteners	12	12	12	12	12	13	13	13	13	13	13