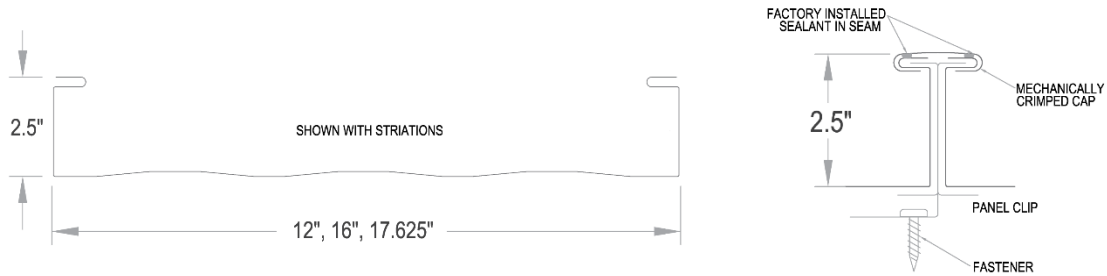




TEE-LOCK TL25 ALUMINUM



180 Deflection

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (single span)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
0.032	12	19	0.700	0.1986	0.1986	0.7346	104.2	72.4	53.2	40.7	32.2	26.1	21.5
0.040	12	19	0.855	0.4470	0.4470	0.9029	160.8	111.7	82.1	62.8	49.6	40.2	33.2
0.032	16	19	0.640	0.2930	0.2930	0.7150	75.5	52.4	38.5	29.5	23.3	18.9	15.6
0.040	16	19	0.790	0.3580	0.3580	0.8770	116.9	81.2	59.7	45.7	36.1	29.2	24.2
0.032	18	19	0.620	0.2660	0.2660	0.7052	44.8	31.1	22.8	17.5	13.8	11.2	9.3
0.040	18	19	0.760	0.3250	0.3250	0.8650	68.7	47.7	35.0	26.8	21.2	17.2	14.2

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (two equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
0.032	12	19	0.700	0.1986	0.1986	0.7346	104.2	72.4	53.2	40.7	32.2	26.1	21.5
0.040	12	19	0.855	0.4470	0.4470	0.9029	160.8	111.7	82.1	62.8	49.6	40.2	33.2
0.032	16	19	0.640	0.2930	0.2930	0.7150	75.5	52.4	38.5	29.5	23.3	18.9	15.6
0.040	16	19	0.790	0.3580	0.3580	0.8770	116.9	81.2	59.7	45.7	36.1	29.2	24.2
0.032	18	19	0.620	0.2660	0.2660	0.7052	44.8	31.1	22.8	17.5	13.8	11.2	9.3
0.040	18	19	0.760	0.3250	0.3250	0.8650	68.7	47.7	35.0	26.8	21.2	17.2	14.2

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (three equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
0.032	12	19	0.700	0.1986	0.1986	0.7346	130.3	90.5	66.5	50.9	40.2	32.6	26.9
0.040	12	19	0.855	0.4470	0.4470	0.9029	201.1	139.6	102.6	78.5	62.1	50.3	41.5
0.032	16	19	0.640	0.2930	0.2930	0.7150	94.4	65.5	48.2	36.9	29.1	23.6	19.5
0.040	16	19	0.790	0.3580	0.3580	0.8770	146.2	101.5	74.6	57.1	45.1	36.5	30.2
0.032	18	19	0.620	0.2660	0.2660	0.7052	56.0	38.9	28.5	21.9	17.3	14.0	11.6
0.040	18	19	0.760	0.3250	0.3250	0.8650	85.8	59.6	43.8	33.5	26.5	21.5	17.7



240 Deflection

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (single span)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
0.032	12	19	0.700	0.1986	0.1986	0.7346	104.2	72.4	53.2	40.7	32.2	26.1	21.5
0.040	12	19	0.855	0.4470	0.4470	0.9029	160.8	111.7	82.1	62.8	49.6	40.2	33.2
0.032	16	19	0.640	0.2930	0.2930	0.7150	75.5	52.4	38.5	29.5	23.3	18.9	15.6
0.040	16	19	0.790	0.3580	0.3580	0.8770	116.9	81.2	59.7	45.7	36.1	29.2	24.2
0.032	18	19	0.620	0.2660	0.2660	0.7052	44.8	31.1	22.8	17.5	13.8	11.2	9.3
0.040	18	19	0.760	0.3250	0.3250	0.8650	68.7	47.7	35.0	26.8	21.2	17.2	14.2

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (two equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
0.032	12	19	0.700	0.1986	0.1986	0.7346	104.2	72.4	53.2	40.7	32.2	26.1	21.5
0.040	12	19	0.855	0.4470	0.4470	0.9029	160.8	111.7	82.1	62.8	49.6	40.2	33.2
0.032	16	19	0.640	0.2930	0.2930	0.7150	75.5	52.4	38.5	29.5	23.3	18.9	15.6
0.040	16	19	0.790	0.3580	0.3580	0.8770	116.9	81.2	59.7	45.7	36.1	29.2	24.2
0.032	18	19	0.620	0.2660	0.2660	0.7052	44.8	31.1	22.8	17.5	13.8	11.2	9.3
0.040	18	19	0.760	0.3250	0.3250	0.8650	68.7	47.7	35.0	26.8	21.2	17.2	14.2

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (three equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
0.032	12	19	0.700	0.1986	0.1986	0.7346	130.3	90.5	66.5	50.9	40.2	32.6	26.9
0.040	12	19	0.855	0.4470	0.4470	0.9029	201.1	139.6	102.6	78.5	62.1	50.3	41.5
0.032	16	19	0.640	0.2930	0.2930	0.7150	94.4	65.5	48.2	36.9	29.1	23.6	19.5
0.040	16	19	0.790	0.3580	0.3580	0.8770	146.2	101.5	74.6	57.1	45.1	36.5	30.2
0.032	18	19	0.620	0.2660	0.2660	0.7052	56.0	38.9	28.5	21.9	17.3	14.0	11.6
0.040	18	19	0.760	0.3250	0.3250	0.8650	85.8	59.6	43.8	33.5	26.5	21.5	17.7

NOTES:

- Theoretical section properties have been calculated per the latest edition of the Aluminum Association's Design Manual.
 I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with the latest edition of the Aluminum Association's Design Manual considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- Allowable load does not address panel weight, fasteners, connection strength or support material.
- Allowable load includes web crippling.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of $L/180$ or $L/240$ of span.
- Allowable loads do not include a 1/3 stress increase for wind.