



**Eco-ficient™ ThermalSafe**  
(Allowable Loads in PSF)

**26 Ga. Exterior & 26 Ga. Interior Faces**

Panel Depth	Span Type	Load Type	Span in Feet								
			5'	6'	7'	8'	9'	10'	11'	12'	13'
3"	Single Span	Bending & Shear	62.40	52.00	44.60	39.00	34.70	31.20	28.40	26.00	24.00
		Deflection (L/240)	85.20	65.90	52.00	41.70	33.90	27.80	23.00	19.20	16.20
		Connection F1	41.80	34.80	29.90	26.10	23.20	20.90	19.00	17.40	16.10
	Two Span or more	Bending & Shear	55.20	45.40	38.50	33.40	29.50	26.30	23.70	21.60	19.80
		Deflection (L/240)	89.00	70.80	57.90	48.20	40.60	34.50	29.40	25.30	21.90
		Connection F1	46.50	39.70	33.40	28.80	25.30	22.60	20.40	18.60	17.00
		Connection F2	48.90	41.80	36.00	31.10	27.30	24.30	22.00	20.00	18.40
		Connection F3	30.90	25.20	21.20	18.30	16.10	14.30	12.90	11.80	10.80
4"	Single Span	Bending & Shear	79.30	66.10	56.70	49.60	44.10	39.70	36.10	33.10	30.50
		Deflection (L/240)	114.10	89.90	72.30	59.10	48.90	40.80	34.40	29.20	24.90
		Connection F1	49.80	41.50	35.50	31.10	27.60	24.90	22.60	20.70	19.10
	Two Span or more	Bending & Shear	71.10	58.30	49.40	42.80	37.80	33.80	30.50	27.70	25.40
		Deflection (L/240)	117.20	94.00	77.50	65.20	55.60	48.00	41.60	36.30	31.80
		Connection F1	50.10	40.90	34.50	29.70	26.10	23.20	20.90	19.00	17.50
		Connection F2	56.10	46.80	39.50	34.00	29.90	26.60	23.90	21.80	20.00
		Connection F3	31.40	25.70	21.60	18.70	16.40	14.60	13.10	11.90	10.90
5"	Single Span	Bending & Shear	93.10	77.60	66.50	58.20	51.70	46.50	42.30	38.80	35.80
		Deflection (L/240)	140.10	111.70	91.00	75.40	63.20	53.40	45.60	39.10	33.70
		Connection F1	57.90	48.30	41.40	36.20	32.20	29.00	26.30	24.10	22.30
	Two Span or more	Bending & Shear	85.30	69.90	59.20	51.20	45.20	40.40	36.50	33.30	30.50
		Deflection (L/240)	142.50	115.10	95.40	80.70	69.30	60.20	52.80	46.60	41.20
		Connection F1	51.40	42.00	35.40	30.50	26.80	23.80	21.40	19.50	17.90
		Connection F2	62.20	50.90	42.90	37.00	32.40	28.80	26.00	23.60	21.60
6"	Single Span	Bending & Shear	104.60	87.10	74.70	65.30	58.10	52.30	47.50	43.60	40.20
		Deflection (L/240)	162.40	130.50	107.40	89.80	76.00	65.00	55.90	48.50	42.20
		Connection F1	66.10	55.10	47.20	41.30	36.70	33.00	30.00	27.50	25.40
	Two Span or more	Bending & Shear	96.40	79.00	66.80	57.80	50.90	45.50	41.10	37.50	34.40
		Deflection (L/240)	164.20	133.20	111.00	94.30	81.40	71.00	62.60	55.60	49.70
		Connection F1	52.50	43.00	36.30	31.30	27.50	24.40	22.00	20.00	18.30
		Connection F2	67.00	54.90	46.30	39.90	35.00	31.10	28.00	25.50	23.30
7"	Single Span	Bending & Shear	122.20	101.80	87.30	76.40	67.90	61.10	55.50	50.90	47.00
		Deflection (L/240)	192.00	155.10	128.30	107.90	91.80	78.90	68.40	59.60	52.20
		Connection F1	74.20	61.90	53.00	46.40	41.20	37.10	33.70	30.90	28.60
	Two Span or more	Bending & Shear	113.40	93.00	78.60	68.00	59.80	53.40	48.20	44.00	40.40
		Deflection (L/240)	193.60	157.60	131.70	112.20	97.00	84.90	75.00	66.80	59.90
		Connection F1	53.40	43.90	37.00	31.90	28.00	24.90	22.40	20.30	18.60
		Connection F2	71.50	58.70	49.50	42.70	37.50	33.30	30.00	27.20	24.90
8"	Single Span	Bending & Shear	139.80	116.50	99.80	87.40	77.70	69.90	63.50	58.20	53.80
		Deflection (L/240)	221.70	179.70	149.30	126.10	107.80	93.10	81.00	70.90	62.40
		Connection F1	74.20	61.90	53.00	46.40	41.20	37.10	33.70	30.90	28.60
	Two Span or more	Bending & Shear	130.50	107.00	90.50	78.20	68.80	61.40	55.40	50.50	46.40
		Deflection (L/240)	223.20	182.00	152.40	130.10	112.80	98.90	87.60	78.20	70.30
		Connection F1	53.70	44.10	37.30	32.20	28.20	25.10	22.60	20.50	18.80
		Connection F2	71.90	59.00	49.90	43.00	37.80	33.60	30.20	27.40	25.10

**Notes:**

1. Based on ThermalSafe panel with 26 Ga. exterior & 26 Ga. interior face (min Fy = 33 ksi) for loads listed above.
2. Allowable positive load is the lowest value of panel bending strength, shear strength & deflection limit.
3. Allowable suction load is the lowest value of panel bending strength, shear strength, deflection limit and connection strength for each fastener pattern.
4. The loads based on panel stress and deflection design criteria are derived from ASTM E-72 structural testing. The allowable loads are calculated with a factor of safety of 2.5 and 3.0 for bending and shear stresses, respectively, and deflection limitation of L/240.
5. The connection strengths are derived from ASTM E-72 structural testing and the allowable loads are calculated with a factor of safety of 2.5.
6. Fastener Spacing across panel width into 14 Ga. Girts:
7. Connection F1 (3 Fasteners): End Support (3"-18"-18"-3") & Intermediate (7"-14"-14"-7")
8. Connection F2 (4 Fasteners): End Support (3"-12"-12"-3") & Intermediate (5.25"-10.5"-10.5"-10.5"-5.25")
9. Connection F3 (3 Fasteners): End Support (3"-18"-18"-3") & 4 FabLok at Intermediate (5.25"-10.5"-10.5"-10.5"-5.25")
10. The structural capacity of the girts are not considered and must be examined independently.
11. This information is subject to change without notice. Please contact MBCI for most current information.