

**MBCI Architectural Flat Wall Panels<sup>7</sup>**  
**22 Ga. Exterior / 26 Ga. Interior Facings**  
**Allowable Positive Load<sup>1,4,5,6</sup> (psf) for Two or More Equal Spans**

Panel Type <sup>2</sup>	Design Criteria <sup>3</sup>	Support Span								
		4 ft	5 ft	6 ft	7 ft	8 ft	9 ft	10 ft	11 ft	12 ft
2"	Bending & Shear	90.8	71.3	58.6	49.8	43.2	38.0	33.9	28.5	23.2
	Deflection (L/180)	96.1	73.1	57.9	47.0	38.9	32.4	27.2	23.1	19.7
2.5"	Bending & Shear	106.3	83.1	67.9	57.2	49.3	43.3	38.6	34.8	28.3
	Deflection (L/180)	117.1	89.9	71.7	58.8	49.1	41.7	35.7	30.9	27.0
3"	Bending & Shear	118.2	92.6	75.7	63.8	55.0	48.3	43.0	38.7	33.5
	Deflection (L/180)	135.2	104.4	83.8	69.2	58.2	49.7	42.9	37.4	32.8
4"	Bending & Shear	124.8	98.1	80.4	67.8	58.5	51.3	45.6	41.1	37.3
	Deflection (L/180)	162.2	126.5	102.5	85.3	72.4	62.4	54.4	47.9	42.5

**Notes:**

1. The Load Span Table above is based on Allowable Stress Design (ASD). For loads calculated based on ASCE 7-10 (LRFD), please refer to section 2.4.1 of ASCE 7-10 for the applicable load combinations using Allowable Stress Design.
2. Based on CF-panel with 22 ga. Architectural Flat exterior and 26 ga. Light Mesa interior face (min  $F_y = 33$  ksi).
3. Refer to the allowable connection load chart, for suction loads.
4. Allowable positive or suction load is the lowest value of panel bending strength, shear strength, deflection limit and connection strength for each fastener pattern.
5. Allowable loads based on panel stress and deflection design criteria are derived from ASTM E72 structural testing and calculated with factor of safety of 2.5 for bending stress, 3.0 for shear stresses and deflection limitation of L/180.
6. The structural capacity of the purlins are not considered and must be examined independently.
7. Consult MBCI for recommendations on panel profile and gage suitable for thermal stresses.