



## EM Striated Insulated Panel

SECTION PROPERTIES							
PANEL	FASCIA GAUGE	LINER GAUGE	PANEL THICKNESS (in)	MOMENT OF INERTIA (in <sup>4</sup> /ft)	FASCIA SECTION MODULUS (in <sup>3</sup> /ft)	LINER SECTION MODULUS (in <sup>3</sup> /ft)	CORE AREA (in <sup>2</sup> /ft)
EM Striated Insulated Panel	24	26	2	0.470	0.523	0.427	23.52
			2.5	0.737	0.657	0.535	29.52
			3	1.065	0.791	0.644	35.52
			4	1.899	1.058	0.861	47.52

### NOTES:

- 1) The above values are included for informational purposes. The use of these values is only applicable for a composite section analysis that includes effects from shear deformation of the foam as well as non-composite fascia effects.
- 2) This material is subject to change without notice. Please contact Exceptional® Metals at 1-800-248-0280 for most current data.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the North American Specification for the Design of Cold-Formed Steel Structural Members published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact Exceptional Metals.

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ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

Panel Depth	Span Type	Load Type	SPAN IN FEET							
			5'	6'	7'	8'	9'	10'	11'	12'
2"	Two Spans	Bending & Shear	72.40	59.20	49.90	43.10	38.00	31.10	24.80	20.20
		Deflection (L/180)	71.50	56.30	45.60	37.60	31.40	26.60	22.70	19.50
		Pattern FP1	31.60	25.80	21.70	18.80	16.50	14.80	13.30	12.20
		Pattern FP2	46.20	37.70	31.80	27.50	24.20	21.60	19.50	17.80
		Pattern FP3	58.30	47.60	40.20	34.70	30.50	26.00	22.10	19.00
	Three or More Spans	Bending & Shear	71.20	58.60	49.80	43.30	38.30	34.10	27.70	23.00
		Deflection (L/180)	72.30	56.80	45.70	37.30	30.90	25.80	21.70	18.40
		Pattern FP1	33.10	27.40	23.40	20.40	18.10	16.20	14.70	13.50
		Pattern FP2	48.40	40.10	34.20	29.80	26.40	23.70	21.20	18.00
		Pattern FP3	61.10	50.60	43.20	36.50	30.20	25.20	21.20	18.00
2.5"	Two Spans	Bending & Shear	82.80	67.60	57.00	49.20	43.20	38.60	30.40	24.60
		Deflection (L/180)	87.20	69.40	56.70	47.20	39.90	34.10	29.40	25.50
		Pattern FP1	33.30	27.20	22.90	19.80	17.40	15.50	14.00	12.70
		Pattern FP2	47.50	38.80	32.70	28.20	24.80	22.10	19.90	18.20
		Pattern FP3	60.10	49.00	41.30	35.70	31.40	28.00	25.20	23.00
	Three or More Spans	Bending & Shear	81.10	66.60	56.50	49.10	43.40	38.90	32.90	27.20
		Deflection (L/180)	88.20	70.10	57.10	47.30	39.70	33.60	28.70	24.70
		Pattern FP1	34.60	28.60	24.40	21.30	18.80	16.90	15.30	14.00
		Pattern FP2	49.30	40.80	34.80	30.30	26.80	24.10	21.90	20.00
		Pattern FP3	62.40	51.60	44.00	38.30	33.90	30.50	27.70	24.70
3"	Two Spans	Bending & Shear	92.40	75.50	63.60	54.80	48.10	42.90	35.50	28.50
		Deflection (L/180)	400.40	80.40	66.10	55.50	47.20	40.70	35.30	30.90
		Pattern FP1	35.10	28.70	24.10	20.80	18.30	16.30	14.70	13.40
		Pattern FP2	48.80	39.80	33.60	28.90	25.40	22.60	20.40	18.60
		Pattern FP3	61.80	50.50	42.50	36.70	32.20	28.70	25.90	23.50
		Pattern FP4	71.10	58.00	48.90	42.20	37.00	33.00	29.70	27.10
	Three or More Spans	Bending & Shear	90.10	73.90	62.60	54.30	48.00	42.90	37.00	30.40
		Deflection (L/180)	101.40	81.30	66.80	55.90	47.40	40.60	35.00	30.40
		Pattern FP1	36.10	29.90	25.40	22.20	19.60	17.60	16.00	14.60
		Pattern FP2	50.20	41.50	35.40	30.80	27.30	24.50	22.20	20.30
		Pattern FP3	63.70	52.60	44.80	39.00	34.60	31.00	28.20	25.80
		Pattern FP4	73.20	60.50	51.50	44.90	39.70	35.70	32.40	29.60

### NOTES:

- 1) Based on 42" EM Striated Insulated Panel with a 26 gauge striated exterior and 26 gauge Light Mesa interior faces (minimum  $F_y = 33\text{ksi}$ ).
- 2) Allowable positive load is the lowest value of the panel bending and shear strength or deflection limit.
- 3) Allowable suction load is the lowest value of the panel bending, shear strength, deflection limited and connection strength for each fastener pattern. The numbers have been reduced to reflect the lowest value.
- 4) Loads based on panel stress, deflection and connection design criteria are derived from ASTM E-72 testing.
- 5) Allowable loads are calculated with a factor of safety of 2.5 for bending, 3.0 for shear and 2.0 for connection.
- 6) For pattern FP1, CF panel clips are fastened to minimum 14 gauge steel with (2)  $\frac{1}{4}$ "-14 SDS Tek 3 at interior and end supports. For 12 gauge or thicker steel, #12-24 SDS or  $\frac{1}{4}$ "-14 SDS Tek 5's may be used. In lieu of self-drilling screws, self-tapping screws may be used.

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- 7) Fastening patterns FP2, FP3, FP4 and FP5, includes CF panel clip attachment plus 1, 2, 3 or 4 Fab-loks, respectively, at supports per panel width. Fab-lok spacing is 10.5" OC from female edge of panel seam.
- 8) This structural capacity of the girts are not considered and must be examined independently.
- 9) This material is subject to change without notice. Please contact Exceptional® Metals at 1-800-248-0280 for the most current data.

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