



EM CF Architectural Insulated Panel

SECTION PROPERTIES							
PANEL	FASCIA GAUGE	LINER GAUGE	PANEL THICKNESS (in)	MOMENT OF INERTIA (in ⁴ /ft)	FASCIA SECTION MODULUS (in ³ /ft)	LINER SECTION MODULUS (in ³ /ft)	CORE AREA (in ² /ft)
CF Architectural	22	26	2	0.520	0.666	0.426	23.44
			2.5	0.816	0.838	0.535	29.44
			3	1.179	1.009	0.643	35.44
			4	2.104	1.352	0.861	47.44

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	Thickness	SPAN IN FEET								
			4'	5'	6'	7'	8'	9'	10'	11'	12'
24" Wide	Two Spans	2"	88.00	68.80	56.10	47.30	39.60	33.40	28.40	24.40	21.20
		2.5"	100.40	79.20	64.70	54.50	47.00	41.30	36.40	31.60	27.60
		3"	109.60	88.70	72.50	61.10	52.70	46.20	41.20	37.10	33.50
	Three or More Spans	2"	90.30	71.50	58.80	48.00	39.60	33.10	27.90	23.70	20.30
		2.5"	103.10	81.50	66.90	56.70	49.20	42.40	36.20	31.20	27.00
		3"	112.90	90.60	74.30	62.90	54.50	48.10	43.00	37.90	33.20
30" Wide	Two Spans	2"	70.40	55.00	44.90	37.80	32.70	28.70	25.60	23.10	21.10
		2.5"	80.30	63.40	51.70	43.60	37.60	33.00	29.40	26.50	24.10
		3"	87.60	71.00	58.00	48.90	42.10	37.00	32.90	29.60	27.00
	Three or More Spans	2"	72.30	57.20	47.30	40.40	35.20	31.20	27.90	23.70	20.30
		2.5"	82.50	65.30	54.00	46.00	40.00	35.50	31.80	28.90	26.40
		3"	90.30	72.60	60.00	51.10	44.50	39.40	35.30	32.00	29.30
36" Wide	Two Spans	2"	58.70	45.80	37.40	31.50	27.20	23.90	21.30	19.30	17.60
		2.5"	66.90	52.80	43.10	36.30	31.30	27.50	24.50	22.10	20.10
		3"	73.00	59.10	48.30	40.70	35.10	30.80	27.40	24.70	22.50
	Three or More Spans	2"	60.20	47.70	39.40	33.60	29.30	26.00	23.30	21.20	19.40
		2.5"	68.70	54.40	45.00	38.30	33.40	29.50	26.50	24.00	22.00
		3"	75.20	60.50	50.00	42.60	37.00	32.80	29.40	26.70	24.40

NOTES:

- 1) Based on 36", 30" and 24" EM CF Architectural Insulated panel with a 22 gauge flat exterior and 26 gauge Light Royal interior faces (minimum $F_y = 33\text{ksi}$).
- 2) 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.
- 3) Allowable loads based on panel stress, connection strength and deflection design criteria are derived from ASTM E-72 structural testing.
- 4) The allowable inward or outward loads is the smallest load calculated with a factor of safety of 2.5 for bending stress, 3.0 for shear stresses, 2.0 for connection and deflection limitation of $L/180$.
- 5) The structural capacity of the girts are not considered and must be examined independently.
- 6) 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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