

16" EM Designer™ Series- Fluted Panel

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL	Fy	WEIGHT	Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.85	0.0931	0.1516	4.5395	0.0931	0.0667	1.9982
22	50	2.23	0.1258	0.2204	6.5995	0.1251	0.0900	2.6747

NOTES:

- 1) All calculations for the properties of EM Designer™ Series panels are calculated in accordance with the 2012 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- 2) Ixe is for deflection determination.
- 3) Sxe is for bending.
- 4) Maxo is allowable bending moment.
- 5) All values are for one foot of panel width.
- 6) 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

24 Gauge (Fy = 50 ksi)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	Positive Wind Load	113.50	83.30	53.30	37.00	23.70	15.90	11.20
2-SPAN	Positive Wind Load	90.00	67.50	52.60	36.70	27.00	20.70	16.40
3-SPAN	Positive Wind Load	102.30	76.70	61.40	45.70	33.70	25.80	20.40
4-SPAN	Positive Wind Load	98.50	73.90	59.10	42.70	31.50	24.10	19.10
22 Gauge (Fy = 50 ksi)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	Positive Wind Load	198.10	111.40	71.30	49.50	31.90	21.40	15.00
2-SPAN	Positive Wind Load	149.50	110.00	70.70	49.20	36.20	27.80	22.00
3-SPAN	Positive Wind Load	169.80	127.40	88.10	61.40	45.20	34.70	27.40
4-SPAN	Positive Wind Load	163.40	122.60	82.40	57.40	42.20	32.40	25.60

NOTES:

- 1) THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
- 2) Allowable loads are based on uniform span lengths and Fy = 50 ksi.
- 3) POSITIVE WIND LOAD is limited by bending, shear, combined shear & bending, and web crippling.
- 4) POSITIVE WIND LOAD is limited by a maximum deflection ratio of L/120.
- 5) The weight of the panel has not been deducted from the allowable loads.
- 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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