

EM Slimline[®] 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.)
29	60*	0.75	0.0060	0.0083	0.342	0.0080	0.0089	0.424
26	60*	0.94	0.0084	0.0114	0.483	0.0118	0.0132	0.631

NOTES:

- 1) All calculations for the properties of EM Slimline[®] 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

29 Gauge (0.0133"), Fy = 60 ksi, Fu = 61.5 ksi						
SPAN TYPE	LOAD TYPE	SPAN IN FEET				
		1.0	1.5	2.0	2.5	3.0
1-SPAN	Negative Wind Load	--	--	--	--	--
	Live Load/Deflection	--	--	--	--	--
2-SPAN	Negative Wind Load	31.20	27.30	23.40	22.10	20.80
	Live Load/Deflection	123.84	82.56	55.63	35.93	25.08
3-SPAN	Negative Wind Load	31.20	21.30	23.40	22.10	20.80
	Live Load/Deflection	140.73	93.82	68.77	44.59	31.19
4-SPAN	Negative Wind Load	31.20	27.30	23.40	22.10	20.80
	Live Load/Deflection	135.45	90.30	64.44	41.72	29.16
26 Gauge (0.0181"), Fy = 60 ksi, Fu = 61.5 ksi						
SPAN TYPE	LOAD TYPE	SPAN IN FEET				
		1.0	1.5	2.0	2.5	3.0
1-SPAN	Negative Wind Load	--	--	--	--	--
	Live Load/Deflection	--	--	--	--	--
2-SPAN	Negative Wind Load	39.00	36.40	33.80	31.20	28.60
	Live Load/Deflection	217.22	137.21	78.58	50.72	35.39
3-SPAN	Negative Wind Load	39.00	36.40	33.80	31.20	28.60
	Live Load/Deflection	246.84	164.56	97.22	62.98	44.03
4-SPAN	Negative Wind Load	39.00	36.40	33.80	31.20	28.60
	Live Load/Deflection	237.58	158.27	91.07	58.92	41.16

NOTES:

- 1) Strength calculations based on the 2012 AISI Standard North American Specification for the Design of Cold-Formed Steel Structural Members.
- 2) Allowable loads are applicable for uniform loading and spans without overhangs.
- 3) LIVE LOAD/DEFLECTION LOAD capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads. **When the panel is installed over plywood or some other solid structural substrate**, the above LIVE LOAD/DEFLECTION values are invalid, and the NEGATIVE WIND LOAD capacity is determined strictly by the capacity of the solid structural substrate.
- 4) NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports, and are based on ASTM E 1592 test results. Because the E1592 test results are not valid for single-span conditions, this panel is not recommended for single-span applications and no single-span capacity has been listed for either NEGATIVE WIND LOAD or LIVE LOAD/DEFLECTION cases.
- 5) Panel pullover and screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.

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- 6) Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.
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