

## EM 7.2 Insul-Rib™ Panel 26 Gauge

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

Panel Depth	Span Type	Load Type	SPAN IN FEET									
			4'	5'	6'	7'	8'	9'	10'	11'	12'	13'
3"	Single Span	Bending & Shear	-	93.40	71.60	56.90	46.40	38.50	32.40	27.60	23.60	19.80
		(L/180)	-	203.70	138.70	100.40	75.70	58.60	46.40	37.40	30.50	25.20
		Pattern FP1	-	40.70	33.90	29.10	25.50	22.60	20.40	18.50	17.00	15.70
		Pattern FP11	-	93.40	71.60	56.90	46.40	38.50	32.40	27.60	23.60	19.80
	Two Spans	Bending & Shear	101.70	69.30	51.00	39.30	31.50	25.80	21.60	18.40	15.90	13.90
		(L/180)	431.80	251.80	165.50	117.60	88.00	68.40	54.60	44.50	36.90	31.00
		Pattern FP1	42.70	36.00	31.40	28.20	25.70	23.80	21.60	18.40	15.90	13.90
		Pattern FP11	101.70	69.30	51.00	39.30	31.50	25.80	21.60	18.40	15.90	13.90
	Three or More Spans	Bending & Shear	119.10	80.20	58.50	45.00	36.00	29.60	24.80	21.20	18.40	16.10
		(L/180)	384.10	228.70	152.20	108.70	81.40	63.10	50.20	40.70	33.60	28.00
		Pattern FP1	47.50	39.90	34.90	31.30	28.60	26.50	24.80	21.20	18.40	16.10
		Pattern FP11	116.20	80.20	58.50	45.00	36.00	29.60	24.80	21.20	18.40	16.10
4"	Single Span	Bending & Shear	-	113.20	90.20	74.00	62.00	52.60	45.10	37.80	31.30	26.40
		(L/180)	-	241.50	171.20	128.70	100.50	80.50	65.70	54.40	45.60	38.50
		Pattern FP1	-	40.70	33.90	29.10	25.50	22.60	20.40	18.50	17.00	15.70
		Pattern FP11	-	101.70	84.80	72.60	62.00	52.60	45.10	37.80	31.30	26.40
	Two Spans	Bending & Shear	107.70	75.00	56.30	44.20	35.90	29.90	25.30	21.80	19.00	16.70
		(L/180)	466.50	280.10	189.30	138.10	106.10	84.50	69.10	57.60	48.80	41.80
		Pattern FP1	48.10	40.00	34.40	30.40	27.40	25.00	23.00	21.50	19.00	16.70
		Pattern FP11	105.50	75.00	56.30	44.20	35.90	29.90	25.30	21.80	19.00	16.70
	Three or More Spans	Bending & Shear	124.50	85.30	63.20	49.30	40.00	33.20	28.20	24.30	21.30	18.80
		(L/180)	423.20	260.10	178.50	131.30	101.30	80.70	65.90	54.80	46.20	39.40
		Pattern FP1	53.20	44.00	37.80	33.40	30.10	27.50	25.40	23.70	21.30	18.80
		Pattern FP11	116.60	85.30	63.20	49.30	40.00	33.20	28.20	24.30	21.30	18.80
5"	Single Span	Bending & Shear	-	136.60	111.60	93.10	77.50	66.40	58.00	47.30	39.30	33.10
		(L/180)	-	290.00	211.40	162.90	130.00	106.20	88.30	74.30	63.20	54.10
		Pattern FP1	-	40.70	33.90	29.10	25.50	22.60	20.40	18.50	17.00	15.70
		Pattern FP11	-	101.70	84.80	72.60	63.60	56.50	50.90	46.20	39.30	33.10
	Two Spans	Bending & Shear	114.80	81.40	62.00	49.30	40.50	34.00	29.00	25.20	22.10	19.50
		(L/180)	514.20	317.90	220.50	164.50	128.80	104.30	86.60	73.20	62.80	54.50
		Pattern FP1	48.60	40.40	34.90	30.80	27.70	25.30	23.30	21.70	20.40	18.70
		Pattern FP11	106.60	81.40	62.00	49.30	40.50	34.00	29.00	25.20	22.10	19.50
	Three or More Spans	Bending & Shear	131.00	91.10	68.50	54.10	44.20	37.10	31.70	27.50	24.20	21.50
		(L/180)	475.00	300.40	211.30	158.90	125.00	101.40	84.10	71.00	60.80	52.50
		Pattern FP1	53.30	44.10	37.90	33.50	30.20	27.60	25.50	23.80	22.40	20.60
		Pattern FP11	117.00	91.10	68.50	54.10	44.20	37.10	30.20	27.50	24.20	21.50
6"	Single Span	Bending & Shear	-	159.40	125.00	100.70	84.30	72.40	63.50	56.60	47.40	40.10
		(L/180)	-	336.30	250.10	195.90	158.70	131.50	110.60	94.20	81.00	70.20
		Pattern FP1	-	40.70	33.90	29.10	25.50	22.60	20.40	18.50	17.00	15.70
		Pattern FP11	-	101.70	84.80	72.60	63.60	56.50	50.90	46.20	42.40	39.10
	Two Spans	Bending & Shear	121.10	87.10	67.10	53.90	44.60	37.70	32.40	28.20	24.80	22.00
		(L/180)	559.50	353.90	250.20	189.70	150.60	123.40	103.60	88.40	76.60	67.00
		Pattern FP1	49.00	40.80	35.30	31.20	28.00	25.60	23.60	21.90	20.60	18.90
		Pattern FP11	107.50	86.80	67.10	53.90	44.60	37.70	32.40	28.20	24.80	22.00
	Three or More Spans	Bending & Shear	136.80	96.40	73.10	58.30	48.00	40.50	34.80	30.30	26.80	23.90
		(L/180)	523.40	338.10	242.10	185.00	147.50	121.20	101.70	86.80	75.00	65.40
		Pattern FP1	53.50	44.30	38.10	33.60	30.30	27.70	25.60	23.80	22.40	20.70
		Pattern FP11	117.40	94.10	73.10	58.30	48.00	40.50	34.80	30.30	26.80	23.90

Duro-Last Issue Date: 7/29/2016

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NOTES:

- 1) Based on EM 7.2 Insul-Rib™ panel with 26 gauge exterior and 26 gauge interior face (minimum  $F_y = 33\text{ksi}$ ) for loads listed above.
- 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 and 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) Pattern FP1 is based on clip with (2)  $\frac{1}{4}$ "-14 Tek III's in minimum 14 gauge steel.
- 7) Pattern FP11 is based on five (7.2" on center, low cell of product),  $\frac{1}{4}$ "-14 Tek III's with  $\frac{5}{8}$ " neoprene bonded washer in minimum 14 gauge steel.
- 8) The 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.

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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