

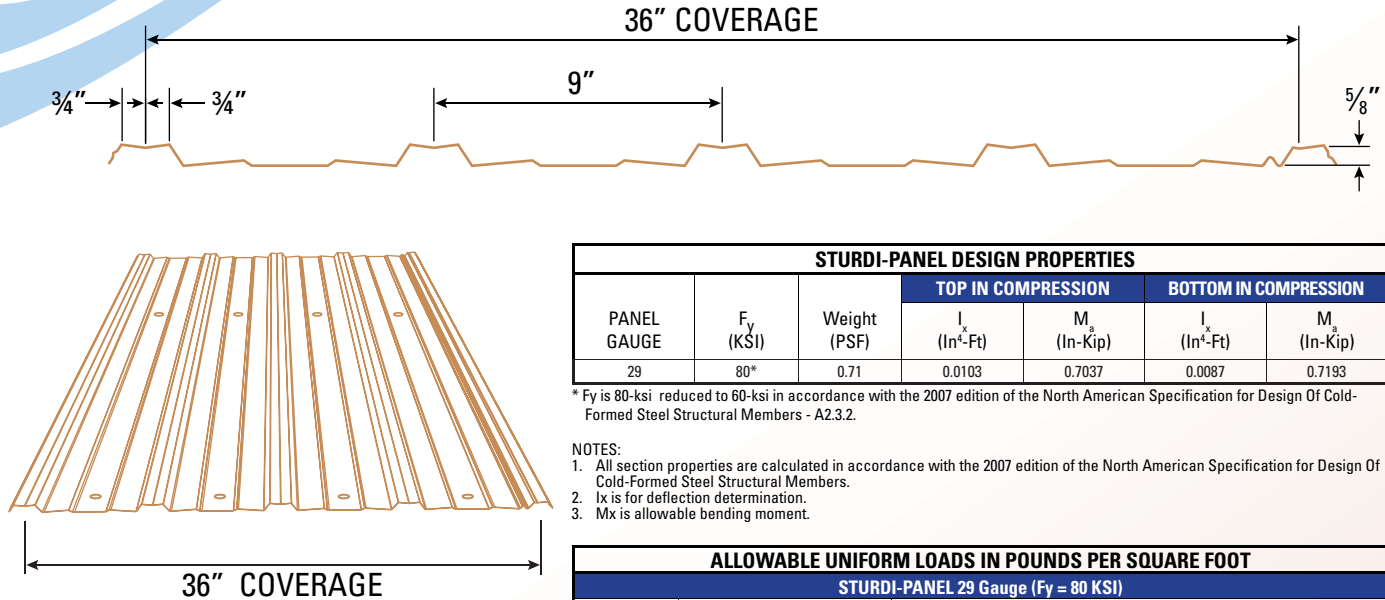


STURDI-PANEL

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STURDI-PANEL



STURDI-PANEL DESIGN PROPERTIES						
PANEL GAUGE	F _y (KSI)	Weight (PSF)	TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
			I _x (In ⁴ -Ft)	M _a (In-Kip)	I _x (In ⁴ -Ft)	M _a (In-Kip)
29	80*	0.71	0.0103	0.7037	0.0087	0.7193

* F_y is 80-ksi reduced to 60-ksi in accordance with the 2007 edition of the North American Specification for Design Of Cold-Formed Steel Structural Members - A2.3.2.

NOTES:

- All section properties are calculated in accordance with the 2007 edition of the North American Specification for Design Of Cold-Formed Steel Structural Members.
- I_x is for deflection determination.
- M_a is allowable bending moment.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT										
STURDI-PANEL 29 Gauge (F _y = 80 KSI)										
SPAN TYPE	LOAD TYPE	SPAN (FEET)								
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
SINGLE	NEGATIVE WIND LOAD	479.5	213.1	119.9	63.1	36.5	23.0	15.4	10.8	7.9
	POSITIVE WIND/LIVE LOAD	249.8	166.5	112.5	57.6	33.3	21.0	14.1	9.9	7.2
2-SPAN	NEGATIVE WIND LOAD	392.6	193.1	113.1	73.9	51.9	38.3	29.3	23.2	18.8
	POSITIVE WIND/LIVE LOAD	185.6	123.8	92.8	72.4	50.8	37.6	28.9	22.9	17.3
3-SPAN	NEGATIVE WIND LOAD	458.6	232.3	138.1	90.9	64.1	43.4	29.0	20.4	14.9
	POSITIVE WIND/LIVE LOAD	211.0	140.6	105.5	84.4	62.8	39.6	26.5	18.6	13.6
4-SPAN	NEGATIVE WIND LOAD	438.1	219.8	130.0	85.3	60.1	44.6	30.8	21.7	15.8
	POSITIVE WIND/LIVE LOAD	203.0	135.3	101.5	81.2	58.9	42.1	28.2	19.8	14.4

NOTES:

- Section properties and allowable loads were computed in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- Allowable loads are based on uniform span lengths, t = .015", F_y = 80 ksi but reduced to 60 ksi for design per AISI.
- LIVE LOAD is limited by bending, shear, combined shear & bending and web crippling and deflection of L/180.
- NEGATIVE WIND LOAD is limited by bending, shear, combined shear and bending and deflection of L/180.
- NEGATIVE WIND LOAD Deflection has been increased by 30% per IBC 2003 Table 1604.3.
- NEGATIVE WIND LOAD does not consider fastener pullout or pullover.
- The weight of the panel has not been deducted from the allowable loads.

MATERIALS

Unless otherwise specified, the exposed surfaces of all panels shall be either clear acrylic coated GALVALUME®, Chem-Treated G90 galvanized, factory painted G60 galvanized or factory painted AZ50 Galvalume®. GALVALUME® is a 55% aluminum-zinc alloy-coated steel material. Acrylic coated GALVALUME® shall have a Coating Class AZ55. Galvanized is a zinc-coated steel material. Chem-treated galvanized shall have a Coating Designation G90. Factory painted galvanized shall have a Coating Designation G60 or G90. Panels shall conform to ASTM A653, Structural Steel.

PAINTED FINISH

All painted panels shall be factory coated by a firm which coats coil products exclusively. The coater shall be responsible for ensuring color consistency, paint film hardness, and paint film thickness. Each side of the panels will be coated with 0.2 mils baked-on primer before the color coating. The 29 and 26 gauge panels shall receive a baked-on silicone polyester finish coat on the exposed side. Thickness of the finish coat will be a nominal 1.0 mils (including the primer coat). A baked-on straight polyester wash coat will be applied on the non-exposed side. Thickness of the wash coat will be a nominal 0.5 mils (including the primer coat).

LIMITED MATERIAL WARRANTY

Specific conditions concerning each finish shall be covered in detail on the written warranty issued, on request, with each order. Minimum roof slope - 3:12 (where snow load controls). GALVALUME® panels shall have a twenty-five year limited warranty providing that GALVALUME® panels will not rupture, fail structurally, or perforate within a period of twenty-five years after shipment due to exposure to normal atmospheric corrosion. The clear acrylic finish does not carry a warranty. The 29 and 26 gauge factory painted Galvanized panel shall have a thirty-year limited color finish warranty from peeling and cracking, and a twenty-five year limited color finish warranty from excessive chalking and color change (fading). The wash coat does not carry a warranty.

ROOF PANELS

Panel coverage will be 36" to the weather. Maximum panel length shall be 40'-0". Where endlaps are required, they shall be a minimum of 6" and shall occur at a purlin or girt. Panels shall be furnished square cut. Wall panels must not rest on the concrete foundation; the panel must sit 1/8" above the concrete. All installations shall be in accordance with standard industry practices. Before securing, all laps of roof panels shall be sealed with a continuous ribbon of tape sealant. A closure strip shall be installed at the eave. Panels shall be secured to intermediate framing members with sheet metal screws at a maximum spacing of 9" on center. At endlaps, the maximum screw spacing shall be 6" on center (one on each side of the major rib).

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