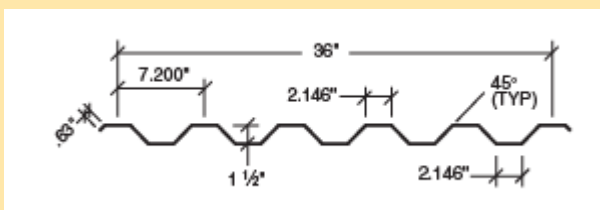


7.2 Panel



The 7.2 panel is an ideal choice for wall, soffit, and liner panel use in architectural, commercial, or industrial settings. The symmetrical panel is excellent for its spanning and cantilever capabilities. The 7.2 consists of fastening the panel utilizing through-panel fastening and side lap installation. The panel has 1-1/2" major ribs spaced at 7.2" o.c., with total coverage of 36". Panels can be fabricated from 22, 24, or 26 gauge steel. The Galvalume or painted sheets provide a long-lasting weathering membrane with proven weather resistance in excess of 20 years.



Section Properties

7.2 Panel Profile

Section Properties: 36" Wide, 7.2 Panel				
Gauge	Yield Stress (ksi)	Tensile Strength (ksi)	Wt. (psf)	Steel Thickness (in.)
26	60	61.5	0.88	0.0170
24	50	65	1.17	0.0228
22	50	65	1.40	0.0272

Gauge	Panel Top in Compression (Positive Bending)			Panel Top in Compression (Negative Bending)		
	Ix (in ⁴ /ft)	Sx (in ³ /ft)	Maxo (in-kip/ft)	Ix (in ⁴ /ft)	Sx (in ³ /ft)	Maxo (in-kip/ft)
26	0.0673	0.0611	2.250	0.0623	0.0596	2.195
24	0.1040	0.1049	3.140	0.1030	0.1118	3.347
22	0.1300	0.1599	4.787	0.1300	0.1420	4.250

7.2 Maximum Total Uniform Load (psf)									
Gauge	Span Type	SPAN (ft)							
		3	3.5	4	4.5	5	6	7	7.5
26	1	131.0	112.0	93.8	74.1	60.0	41.7	30.6	26.7
		-162.0	-119.0	-91.5	-72.3	-58.5	-40.7	-29.9	-26.0
	2	139.0	106.0	83.4	67.1	55.1	38.9	28.9	25.3
		-114.0	-98.1	-85.2	-68.6	-56.3	-39.8	-29.6	-25.9
	3	163.0	127.0	100.0	81.5	67.2	47.8	35.7	31.3
		-130.0	-111.0	-97.5	-83.1	-68.6	-48.9	-36.5	-32.0

Gauge	Span Type	SPAN (ft)							
		3	3.5	4	4.5	5	6	7	7.5
24	1	81.2	69.6	60.9	54.1	48.7	40.6	34.8	32.5
		-247.0	-182.0	-182.0	-110.0	-82.9	-62.0	-45.5	-39.7
	2	108.0	92.8	81.2	72.2	65.0	54.1	44.9	39.2
		-114.0	-98.1	-85.9	-76.3	-68.7	-57.2	-42.2	-36.8
	3	101.0	87.0	76.1	67.7	60.9	50.8	43.5	40.6
		-130.0	-111.0	-97.5	-86.7	-78.0	-65.0	-52.5	-45.9

Gauge	Span Type	SPAN (ft)							
		3	3.5	4	4.5	5	6	7	7.5
22	1	151.0	129.0	113.0	101.0	91.0	75.8	65.0	56.7
		-286.0	-230.0	-176.0	-139.0	-113.0	-78.6	-57.5	-50.3
	2	202.0	173.0	143.0	117.0	98.2	70.9	53.4	47.0
		-114.0	-98.1	-85.9	-76.3	-68.7	-57.2	-49.1	-45.8
	3	189.0	162.0	142.0	126.0	113.0	85.2	64.8	57.1
		-130.0	-111.0	-97.5	-86.7	-78.0	-65.0	-55.7	-52.0

- Section properties have been calculated in accordance with the 2007 North American Specification For The Design Of Cold-Formed Steel Structural Members.
- Steel panels have a protective coating of aluminum-zinc alloy.
- The base steel thickness was used in determining section properties
- Minimum yield strength of 22 and 24 gauge steel is 50,000 psi. Minimum Yield Strength of 26 gauge steel is 80,000 psi.
- The deflection loads were calculated from a deflection limit of span/60.
- The loads shown do not include allowance for the panel weight.
- Positive load is applied inward toward the panel supports and is applied to the outer surface of the pane cross-section. Negative load is applied in the opposite direction.

Physical Description

The 7.2 panel is an ideal choice for wall, soffit, and liner panel use in architectural, commercial, or industrial settings. The symmetrical panel is excellent for its spanning and cantilever capabilities. The 7.2 consists of fastening the panel utilizing through-panel fastening and side lap installation. The panel has 1-1/2" major ribs spaced at 7.2" o.c., with total coverage of 36". Panels can be fabricated from 22, 24, or 26 gauge steel. The Galvalume or painted sheets provide a long-lasting weathering membrane with proven weather resistance in excess of 20 years.

Panel

The panels are fabricated from steel which is coated with Galvalume and optional factory applied paint. Galvalume coated steel sheets will provide a long lasting weathering membrane and has a proven weather resistance in excess of 20 years.

Panel and Flashing Materials

7.2 panels are made of 26 gauge steel (80,000 psi minimum yield strength) and 22 and 24 gauge steel (50,000 psi minimum yield strength) (ASTM A792-06a, Grade 50, Class 1) coated with a minimum AZ55 aluminum/zinc allowance for unpainted finish.

The flashing and trim are made of 24 or 26 gauge steel 50,000 psi minimum yield strength (ASTM A792, SS Grade 50, Class 1) coated with a AZ50 (minimum) aluminum/zinc allowance for painted finish zinc or AZ55 aluminum/zinc for unpainted finish.

Sealants

All sealants are a 100% solids, asbestos-free butyl tape sealant that is a highly rubberized, tacky, reinforced compound designed for sealing metal lap joints. Application temperatures of the sealant is -5 F to 120 F and service temperatures from -40 F to 200 F.

Finishes

7.2 panels are available in ACI 2000 (Advanced Exterior Finishes) and ACI 3000 (Premium 70% PVDF Coating Systems) colors. All ACI 2000 and ACI 3000 KYNAR finishes are provided by VALSPAR and come with extended finish warranties.

Maintenance

Routine maintenance is required to maximize the life expectancy of the panel. Routine inspections of the roof, walls, flashings, gutter, and fasteners insure that the investment will maximize performance of all new products.

Fasteners

7.2 panels attach to secondary framing (girts) using self-drilling steel screws, #12 x 1-1/4" hex head with neo washer. Fasteners are available for use with up to 8" of blanket insulation. 7.2 stitch screws, screws at side laps, are #14 x 7/8" self-drilling screws with neo washers.

Product Notes

"Oil-canning," a slight waviness inherent in light gauge metal may exist in this panel. This minor waviness does not affect the finish or structural integrity of the panel and is therefore not a cause for rejection.

Warranty

Up to 20 year material and paint finish warranty information is available upon request. No weather-tightness warranty is available.

Galvalume is an internationally recognized trademark for BEIC International, Inc. and its licensed products.