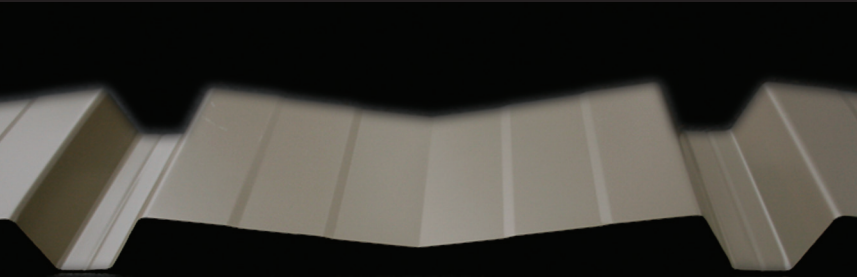


# ACI PBA PANEL

METAL ROOFING SYSTEMS



## Section Properties PBA Panel Profile

Section Properties: 36" wide, 50 ksi PBA Panel						
Gauge	Yield Stress (ksi)	Wt. (psf)	Steel Thickness (in.)	Total Thickness (in.)		
26	50	0.96	0.180	0.0196		
24	50	1.19	0.0227	0.0243		
22	50	1.41	0.0272	0.0288		
Ga.	Panel Top in Compression (Positive Bending)			Panel Bottom in Compression (Negative Bending)		
	I <sub>x</sub> (in <sup>4</sup> /ft)	S <sub>x</sub> (in <sup>3</sup> /ft)	M <sub>max</sub> (in.kip s/ft)	I <sub>x</sub> (in <sup>4</sup> /ft)	S <sub>x</sub> (in <sup>3</sup> /ft)	M <sub>max</sub> (in.kip s/ft)
26	0.0219	0.0322	1.1562	0.0168	0.0283	1.0154
24	0.029	0.0431	1.2915	0.0222	0.0381	1.0404
22	0.0387	0.057	1.7052	0.029	0.0531	1.566

## PBA Maximum Total Uniform Loads in psf

Gauge	Span Type	Span (ft)							
		3.0	4.0	5.0	6.0	7.0	8.0	9.0	
26	1	54 /-86	23 /-48	12 /-31	7 /-21	4 /-16	3 /-12	2 /-10	
	2	73 /-75	42 /-42	27 /-27	16 /-19	10 /-14	7 /-11	5 /-8	
	3	90 /-94	43 /-53	22 /-34	13 /-24	8 /-17	5 /-13	4 /-10	
	4	84 /-88	46 /-48	24 /-32	14 /-22	9 /-16	6 /-12	4 /-9	

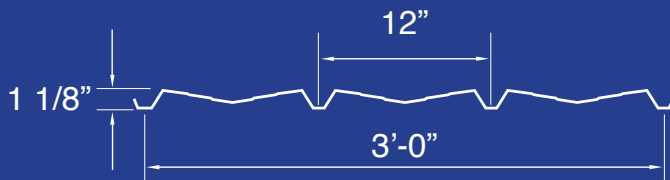
Gauge	Span Type	Span (ft)							
		3.0	4.0	5.0	6.0	7.0	8.0	9.0	
24	1	72 /-96	30 /-54	16 /-34	8 /-24	6 /-18	4 /-14	3 /-11	
	2	81 /-85	47 /-48	30 /-30	21 /-21	14 /-16	8 /-11	6 /-9	
	3	100 /-106	57 /-58	29 /-38	17 /-26	11 /-19	7 /-15	5 /-12	
	4	94 /-99	54 /-56	31 /-36	18 /-25	11 /-18	8 /-14	5 /-11	

Gauge	Span Type	Span (ft)							
		3.0	4.0	5.0	6.0	7.0	8.0	9.0	
22	1	94 /-126	39 /-71	20 /-46	12 /-32	7 /-23	5 /-18	4 /-14	
	2	113 /-118	65 /-66	42 /-42	28 /-28	18 /-22	18 /-22	8 /-13	
	3	138 /-147	83 /-75	38 /-53	22 /-37	14 /-27	14 /-27	7 /-16	
	4	130 /-137	75 /-77	41 /-49	26 /-34	15 /-25	15 /-26	7 /-15	

### Notes on Section Properties:

1. Section Properties have been calculated in accordance with Supplement 2004 to the North American Specification, 2001 Edition, for the Design of Cold-Formed Steel Structural Members.
2. Steel Panels have a protective coating of either aluminum-zinc alloy or G-90 galvanizing.
3. The base steel thickness was used in determining section properties.
4. Minimum Yield Strength of 22 and 24 gauge steel 50,000 psi. Minimum Yield Strength of 26 gauge steel 80,000 psi.
5. The deflection loads were calculated from a deflection limit of Span/180 for structural wall panels.
6. The loads shown do not include allowance for the panel weight.
7. Positive Load is applied inward toward the panel supports and is applied to the outer surface of the panel cross-section. Negative Load is applied in the opposite direction.

The PBA Panel is designed for wall, soffit and liner panel applications in architectural, commercial or industrial settings. The PBA Panel consists of fastening the panel utilizing through panel fastening and side lap installation. The panel has 1 1/8" major ribs space at 12" o.c., with total coverage of 36". Panels are fabricated from 22, 24, or 26 gauge steel. The Galvalume® coated or painted sheet will provide a long-lasting weathering membrane and has a proven weather resistance excess of 20 years.



## PHYSICAL DESCRIPTION

PBA panels, designed for exterior wall, soffit and liner panel applications, in architectural, commercial or industrial settings, consists of fastening the panel utilizing through panel fastening and side lap installation. The panel has 1 1/8" major ribs spaced at 12" o.c., with total coverage of 36". Panels are fabricated from 22, 24, or 26 gauge steel. The Galvalume® coated or painted sheet will provide a long-lasting weathering membrane and has a proven weather resistance in excess of 20 years.

## PANEL

The panel will be fabricated from steel which is coated with Galvalume, and optional factory applied paint. Galvalume coated steel sheet will provide a long-lasting weathering membrane. Galvalume coating has a proven weather resistance in excess of 20 years.

## PANEL AND FLASHING MATERIALS

PBA panels are made of 26 gauge steel (80,000 psi) and of 22 and 24 gauge steel, 50,000 psi minimum yield strength (ASTM A792-06a, Grade 50, Class 1), coated with AZ50 (minimum) aluminum/zinc alloy for painted finish or AZ55 aluminum/zinc alloy for unpainted finish.

The Flashing and trim will be 24 or 26 gauge steel 50,000 psi yield strength (ASTM A792, SS Grade 50, Class 1), coated with AZ50 (minimum) aluminum/zinc alloy 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 highly rubbery, 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

PBA panels available in ACI 2000 (Advanced Exterior Finishes) and ACI 3000 (Premium 70% PVDF Coating System) 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 walls, flashings, and fasteners insure that the investment will maximize performance of all new products.

## FASTENERS

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

## PRODUCT NOTES

"Oil-canning," 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 available upon request. No Weather-tightness Warranty available.

*Galvalume® is an internationally recognized trademark of BIEC International, Inc., and its licensed producers.*