



Finishes You've Never Seen Before®

PBR/R- PANEL

PBR/R-Panel is the most economical roofing exposed fastener panel.

Available Materials: Aluminum, Copper, Corten/A606-4, Steel

Available Finishes: Bare Steel, Galvalume®/Zincalume®, Galvanized, PVDF, SMP Painted

SPECIFICATIONS:

Profile Type:	PBR Panel (Purlin Bearing R Panel)
Rib Height:	1.25"
Rib Distance (Pitch):	12" Pitch
Overall Width:	36"
Coil Feed:	43"
Warranty:	30 year limited*
Coverage Area	
Roof:	36"
Wall:	36"
Available Gauges:	24, 22
Substrate:	AZ 50 Minimum (Galvalume®/Zincalume®)
Finish:	Cool Tech® 500 - PVDF
Fasteners:	Exposed
Panel Length:	1' to 52'
Recommended Minimum Roof Slope:	1/12
Installation:	Can be installed over an open purlin system or a solid substrate. Use bead mastic on the overlap if used for a roofing application.

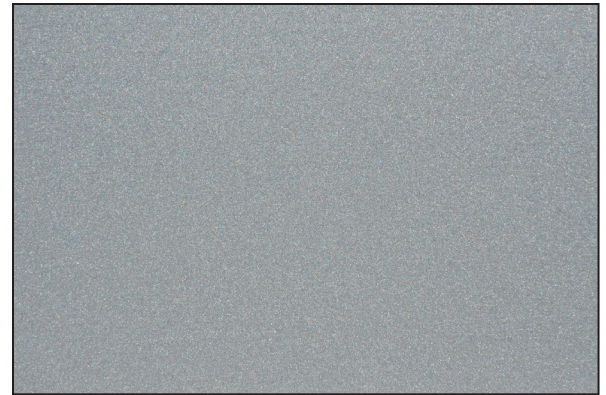
*Limited warranty. Please review prior to purchase.

TESTING AND APPROVALS:

- **UL 2218A Impact Resistance – Class 4**
- **UL 790 Fire Resistance Rating – Class A, per building code**
- **UL 580 Wind Uplift Resistance – Class 90 Construction**

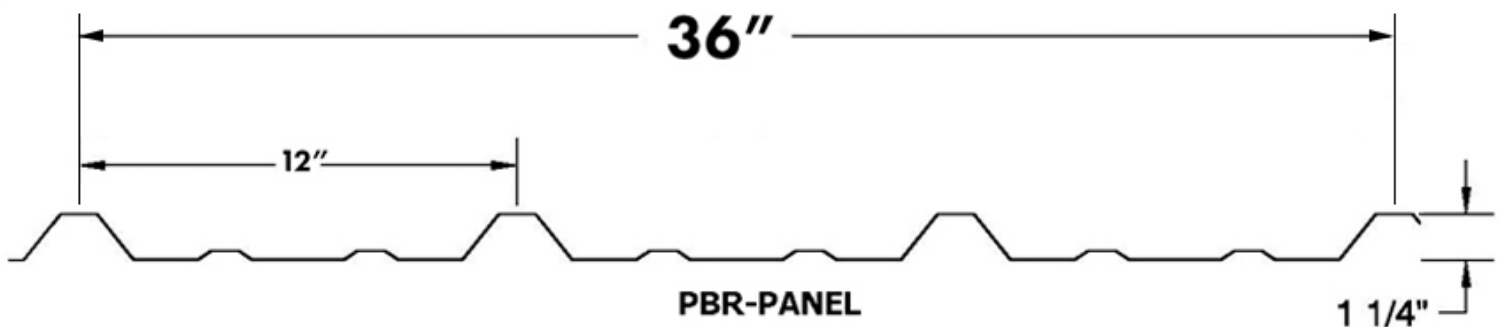
APPLIES TO THE FOLLOWING COLORS/FINISHES:

- | | |
|-------------------|------------------|
| • Almond | • Mansard Brown |
| • Ash Gray | • Matte Black† |
| • Bone White | • Medium Bronze |
| • Burnished Slate | • Regal Blue |
| • Charcoal Gray† | • Regal Red |
| • Classic Green | • Regal White† |
| • Colonial Red | • Sandstone |
| • Copper Penny | • Slate Blue |
| • Dark Bronzet | • Slate Gray |
| • Desert Tan | • Terracotta |
| • Dove Gray | • Zinc Metallic® |
- † Also available in 22 gauge



Shown in Zinc Metallac®

PROFILE:



Colors represented on this profile sheet may not match actual material. All colors should be verified using an actual metal color sample.

4125-22



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GRAVITY LOAD CHART

GRAVITY - TOTAL ALLOWABLE LOAD IN PSF (SPAN IN FEET)

Gauge	Span Type	Load Type	3	3.5	4	4.5	5	6	7	8	9	10
29 (Fy=80ksi)	Single Span	Stress	58.5	43.0	32.9	26.0	21.1	14.6	10.7	8.2	6.5	5.3
		Deflection	72.2	45.5	30.5	21.4	15.6	9.0	5.7	3.8	2.7	2.0
	2 Spans	Stress	85.6	62.9	48.2	38.1	30.8	21.4	15.7	12.0	9.5	7.7
		Deflection	164.1	103.3	69.2	48.6	35.4	20.5	12.9	8.7	6.1	4.4
	3 Spans or More	Stress	99.9	73.4	56.2	44.4	36.0	25.0	18.4	14.1	11.1	9.0
		Deflection	136.4	85.9	57.6	40.4	29.5	17.1	10.7	7.2	5.1	3.7
26 (Fy=80ksi)	Single Span	Stress	95.8	70.4	53.9	42.6	34.5	23.9	17.6	13.5	10.6	8.6
		Deflection	119.7	75.4	50.5	35.5	25.8	15.0	9.4	6.3	4.4	3.2
	2 Spans	Stress	120.4	88.5	67.7	53.5	43.3	30.1	22.1	16.9	13.4	10.8
		Deflection	243.0	153.0	102.5	72.0	52.5	30.4	19.1	12.8	9.0	6.6
	3 Spans or More	Stress	140.5	103.3	79.1	62.5	50.6	35.1	25.8	19.8	15.6	12.6
		Deflection	202.1	127.3	85.3	59.9	43.7	25.3	15.9	10.7	7.5	5.5
24 (Fy=50ksi)	Single Span	Stress	123.8	91.0	69.7	55.0	44.6	31.0	22.7	17.4	13.8	11.1
		Deflection	171.2	107.8	72.2	50.7	37.0	21.4	13.5	9.0	6.3	4.6
	2 Spans	Stress	130.5	95.9	73.4	58.0	47.0	32.6	24.0	18.4	14.5	11.7
		Deflection	335.8	211.4	141.7	99.5	72.5	42.0	26.4	17.7	12.4	9.1
	3 Spans or More	Stress	152.3	111.9	85.7	67.7	54.8	38.1	28.0	21.4	16.9	13.7
		Deflection	279.2	175.8	117.8	82.7	60.3	34.9	22.0	14.7	10.3	7.5
22 (Fy=50ksi)	Single Span	Stress	174.9	128.5	98.4	77.7	63.0	43.7	32.1	24.6	19.4	15.7
		Deflection	237.4	149.5	100.2	70.3	51.3	29.7	18.7	12.5	8.8	6.4
	2 Spans	Stress	168.0	123.4	94.5	74.7	60.5	42.0	30.9	23.6	18.7	15.1
		Deflection	452.3	284.8	190.8	134.0	97.7	56.5	35.6	23.9	16.8	12.2
	3 Spans or More	Stress	196.1	144.1	110.3	87.1	70.6	49.0	36.0	27.6	21.8	17.6
		Deflection	376.1	236.9	158.7	111.4	81.2	47.0	29.6	19.8	13.9	10.2

Section Properties			Top In Compression			Bott. In Compression		
Gauge	fy	wt	ix	sx	ma	ix	sx	ma
	(ksi)	(psf)	(in ⁴ /ft)	(in ³ /ft)	(kip-in)	(in ⁴ /ft)	(in ³ /ft)	(kip-in)
26	80	0.88	0.0376	0.0379	1.2928	0.0317	0.0452	1.6256
24	50	1.12	0.0538	0.0558	1.6717	0.0438	0.0588	1.7618
22	50	1.42	0.0746	0.0789	2.3612	0.0590	0.0758	2.2680
Max Deflection:		180						

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UPLIFT LOAD CHART

UPLIFT - TOTAL ALLOWABLE LOAD IN PSF (SPAN IN FEET)

Gauge	Span Type	Load Type	3	3.5	4	4.5	5	6	7	8	9	10
29 (Fy=80ksi)	Single Span	Stress	85.6	62.9	48.2	38.1	30.8	21.4	15.7	12.0	9.5	7.7
		Deflection	68.1	42.9	28.7	20.2	14.7	8.5	5.4	3.6	2.5	1.8
	2 Spans	Stress	58.5	43.0	32.9	26.0	21.1	14.6	10.7	8.2	6.5	5.3
		Deflection	174	109.6	73.4	51.6	37.6	21.8	13.7	9.2	6.4	4.7
	3 Spans or More	Stress	68.2	50.1	38.4	30.3	24.6	17.1	12.5	9.6	7.6	6.1
		Deflection	144.7	91.1	61.1	42.9	31.3	18.1	11.4	7.6	5.4	3.9

26 (Fy=80ksi)	Single Span	Stress	120.4	88.5	67.7	53.5	43.3	30.1	22.1	16.9	13.4	10.8
		Deflection	100.9	63.5	42.6	29.9	21.8	12.6	7.9	5.3	3.7	2.7
	2 Spans	Stress	95.8	70.4	53.9	42.6	34.5	23.9	17.6	13.5	10.6	8.6
		Deflection	288.2	181.5	121.6	85.4	62.3	36.0	22.7	15.2	10.7	7.8
	3 Spans or More	Stress	111.8	82.1	62.9	49.7	40.2	27.9	20.5	15.7	12.4	10.1
		Deflection	239.7	151.0	101.1	71.0	51.8	30.0	18.9	12.6	8.9	6.5

24 (Fy=50ksi)	Single Span	Stress	120.4	88.5	67.7	53.5	43.3	30.1	22.1	16.9	13.4	10.8
		Deflection	100.9	63.5	42.6	29.9	21.8	12.6	7.9	5.3	3.7	2.7
	2 Spans	Stress	123.8	91.0	69.7	55.0	44.6	31.0	22.7	17.4	13.8	11.1
		Deflection	412.4	259.7	174.0	122.2	89.1	51.6	32.5	21.7	15.3	11.1
	3 Spans or More	Stress	144.5	106.2	81.3	64.2	52.0	36.1	26.5	20.3	16.1	13.0
		Deflection	343.0	216.0	144.7	101.6	74.1	42.9	27.0	18.1	12.7	9.3

22 (Fy=50ksi)	Single Span	Stress	168.0	123.4	94.5	74.7	60.5	42.0	30.9	23.6	18.7	15.1
		Deflection	187.8	118.2	79.2	55.6	40.6	23.5	14.8	9.9	7.0	5.1
	2 Spans	Stress	174.9	128.5	98.4	77.7	63.0	43.7	32.1	24.6	19.4	15.7
		Deflection	571.9	360.1	241.3	169.4	123.5	71.5	45.0	30.2	21.2	15.4
	3 Spans or More	Stress	204.1	150.0	114.8	90.7	73.5	51.0	37.5	28.7	22.7	18.4
		Deflection	475.6	299.5	200.6	140.9	102.7	59.4	37.4	25.1	17.6	12.8

Section Properties			Top In Compression			Bott. In Compression		
Gauge	fy	wt	ix	sx	ma	ix	sx	ma
	(ksi)	(psf)	(in ⁴ /ft)	(in ³ /ft)	(kip-in)	(in ⁴ /ft)	(in ³ /ft)	(kip-in)
26	80	0.88	0.0376	0.0379	1.2928	0.0317	0.0452	1.6256
24	50	1.12	0.0538	0.0558	1.6717	0.0317	0.0452	1.6256
22	50	1.42	0.0746	0.0789	2.3612	0.0590	0.0758	2.2680
Max Deflection:		180						

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