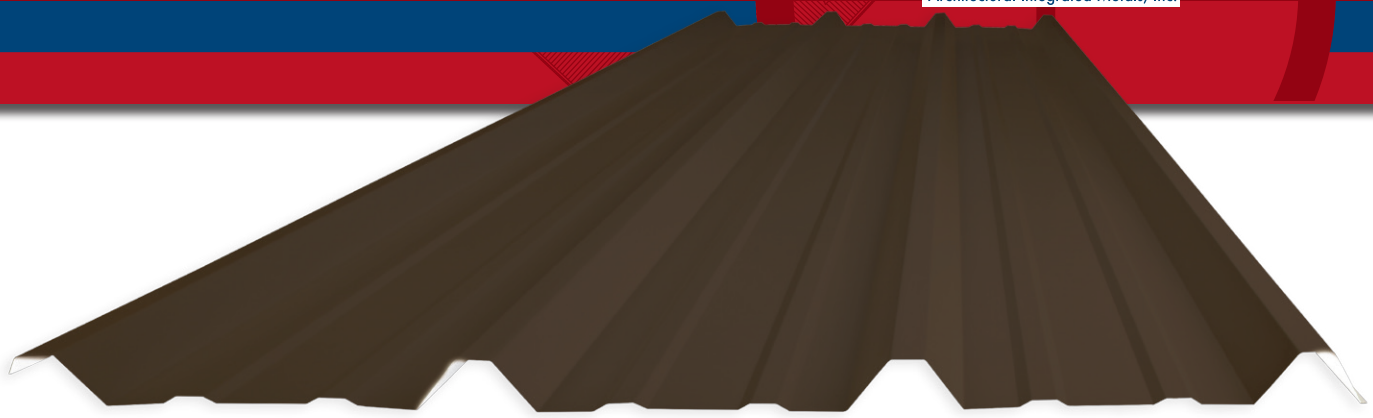
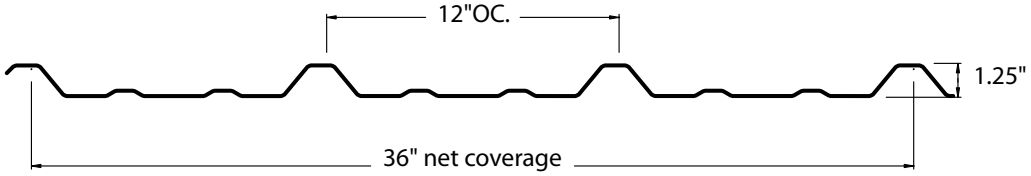
PBR-SPAN™

Panel Specifications

Architectural Integrated Metals, Inc.





CROSS SECTION

SECTION PROPERTIES								
			NEGATIVE BENDING			POSITIVE BENDING		
PANEL GUAGE	Fy (KSI)	WEIGHT (PSF)	Ixe (IN.4.FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)
29	60 *	0.75	0.0219	0.0357	1.2835	0.0242	0.0234	0.8423
26	60 *	0.94	0.0302	0.0511	1.8366	0.0369	0.0372	1.3373
24	50	1.14	0.0404	0.0733	2.1953	0.0506	0.0521	1.5594
22	50	1.44	0.0544	0.1042	3.1201	0.0709	0.0749	2.2427

26 Gauge = (Fy=60 KSI)	Span Type	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
	SINGLE	NEGATIVE WIND LOAD	136.0	76.5	49.0	34.0	25.0	19.1	15.1
		LIVE LOAD/DEFLECTION	99.1	50.4	25.8	14.9	9.4	6.3	4.4
	2-SPAN	NEGATIVE WIND LOAD	99.1	55.7	35.7	24.8	18.2	13.9	11.0
		LIVE LOAD/DEFLECTION	87.3	54.6	35.2	24.5	18.1	13.9	10.7
	3-SPAN	NEGATIVE WIND LOAD	123.8	69.7	44.6	31.0	22.7	17.4	13.8
		LIVE LOAD/DEFLECTION	99.2	67.7	43.8	28.2	17.7	11.9	8.3
	4-SPAN	NEGATIVE WIND LOAD	115.6	65.0	41.6	28.9	21.2	16.3	12.8
		LIVE LOAD/DEFLECTION	95.5	63.4	40.9	28.6	18.8	12.9	8.9

24 Gauge = (Fy=50 KSI)	Span Type	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0
	SINGLE	NEGATIVE WIND LOAD	162.6	91.5	58.5	40.7	29.9	22.9	18.1
		LIVE LOAD/DEFLECTION	115.5	65.0	35.4	20.5	12.9	8.6	6.1
	2-SPAN	NEGATIVE WIND LOAD	115.5	65.0	41.6	28.9	21.2	16.2	12.8
		LIVE LOAD/DEFLECTION	109.4	64.2	41.3	28.7	21.1	16.2	12.8
	3-SPAN	NEGATIVE WIND LOAD	144.4	81.2	52.0	36.1	26.5	20.3	16.0
		LIVE LOAD/DEFLECTION	124.3	79.8	51.4	35.8	26.4	16.3	11.4
	4-SPAN	NEGATIVE WIND LOAD	134.8	75.8	48.5	33.7	24.8	19.0	15.0
		LIVE LOAD/DEFLECTION	119.6	74.7	48.1	33.5	24.6	17.3	12.2

NOTES:

1. All calculations for the properties of PBR panels are calculated in accordance with the 2001 edition of the North American Specification for Design Of Cold-Formed Steel Structural Members.
2. Ixe is for deflection determination.
3. Sxe is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

PBR-SPAN Panel Specifications

PRODUCT
PBR-SPAN panels for roofing and sidewall applications.

MANUFACTURER
Architectural Integrated Metals, Inc.
1724 Northside Industrial Boulevard
Columbus, Georgia 31904
Tel (706) 660-1877
Fax (706) 660-1474
Toll Free: 866-292-4246
www.ai-metals.com

DESCRIPTION
PBR-SPAN panels are designed for exterior wall and roof installations in commercial or industrial settings, utilizing through-panel fastening and lap side seam installations. Panels have 1" ribs with major corrugations spaced 12" o.c. Coverage for each panel is 36" net. Panels come in 24- or 26-gauge galvalume or G-90 galvanized steel.

APPLICATION
Roof covering or wall covering for new, reroof or retrofit construction.

MATERIAL CONTENT
PBR-SPAN panels are **LEED** certified with a minimum of 30% post-consumer recycled galvalume steel, available in 26- or 29-gauge grade 80 (80,000 psi minimum yield strength) consisting of a minimum AZ50 galvalume or G-90 galvanized steel.

FASTENERS
PBR-SPAN panels attach to the secondary framing members (purlins or girts) by self-drilling carbon steel screws, No. 12 x 1¼" hex head washer, cadmium or zinc plated, assembled with a 0.040" minimum thickness nylon isolation washer. Fasteners are appropriate for use with fiberglass blanket insulation up to 6" thick.

PBR-SPAN panel side laps stitched with self-drilling carbon steel screws, No. 14 x 7/8" cadmium or zinc plated, assembled with 0.040" minimum thickness nylon isolation washer.

SEALANTS AND MASTICS
All sealants are non-drying, non-hardening, non-oxidizing butyl rubber-based. Tape mastic for the eave, end splice, ridge flashing, and rake trim is non-drying, non-hardening, butyl-based and specifically formulated for field application at temperatures of 20° to 120° F. Service temperature of both sealants is -60° to 180° F.

FLASHING
Flashing and trims consist of 24-, 26- or 29-gauge steel grade 50 (50,000-psi yield strength). Flashing materials available in AZ50 (minimum) painted galvalume steel or G-90 galvanized steel or bare-finish galvalume in AZ55 aluminum/zinc alloy.

FINISHES
PBR-SPAN panels are available in AIM-PRISM 2000 silicone polyester coatings. Request for special paint finishes other than silicone offered on a job-by-job basis. All PRISM-2000 finishes provided by VALSPAR and come with extended, lifetime finish warranties. Technical data, including LEED™ certification and material safety data documentation provided upon request.

WARRANTY
Up to 30-year material and finish warranties available upon request.

CONTRACTOR CERTIFICATION
All contractors must be ACE certified for all warranted projects. Re-certification required every three years. All inspections by third-party Registered Roof Consultants, (RCI).

MAINTENANCE
Routine maintenance is required to maximize the life-expectancy of the panel. Periodic inspections at the roof, gutter, flashings and walls should be performed to insure the maximum performance of newly installed products.

INDUSTRY NOTES
“Oil-canning” is an industry-accepted condition and is not cause for rejection.

aim INC
Architectural Integrated Metals, Inc.

Call or visit AIM Inc. at www.ai-metals.com for product information and specifications.

Architectural Integrated Metals, Inc. reserves the right to revise all standard specifications and information.