



Your Roof. For Life.™

PBR • R • IR PANEL



Description

Designed for industrial, commercial, and steel-frame building applications, the "R" family of panels has the strength to perform on roof pitches as low as 1:12 and on spans up to five feet. The R and IR panels are designed for sidewall applications while the PBR panel has an added purlin bearing leg to provide better support for roofing applications.

Gauges

- 26, 24 (24ga only available in PBR profile)

Finish Options

- 18 SMP Paint Colors Available
- KYNAR Paint Colors Available
- Unpainted Galvalume

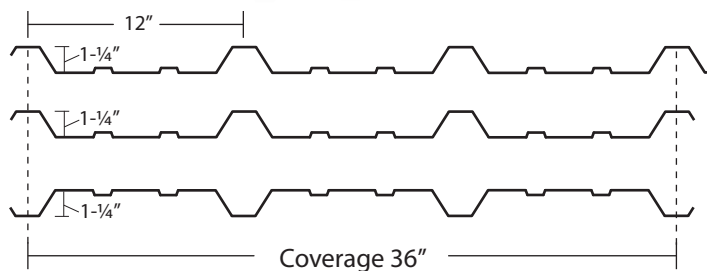
Approvals and Certifications

- Metal Construction Association Certified
- Florida Building Code Approved
- Energy Star Certified
- LEED Colors Available (24ga only)
- Texas Department of Insurance Approved
- Highest UL Ratings for Wind Uplift, Fire and Impact Resistance

PBR Panel

R Panel

IR Panel



CERTIFICATIONS & TESTING - PBR Panel

- Florida Building Code Approval #FL7271.11, #FL9555.6
- Texas Department of Insurance Approval #117
- UL 790 Fire Resistance Class A
- UL 2218 Impact Resistance Class 4

R Panel and PBR Panel Certification

- UL 580 Uplift UL Class 90 CONSTRUCTION #30, 79, 161, 167 & 638

ALLOWABLE UNIFORM LOADS PER SQUARE FOOT - R and PBR Panels (IR Panel used on side walls only)

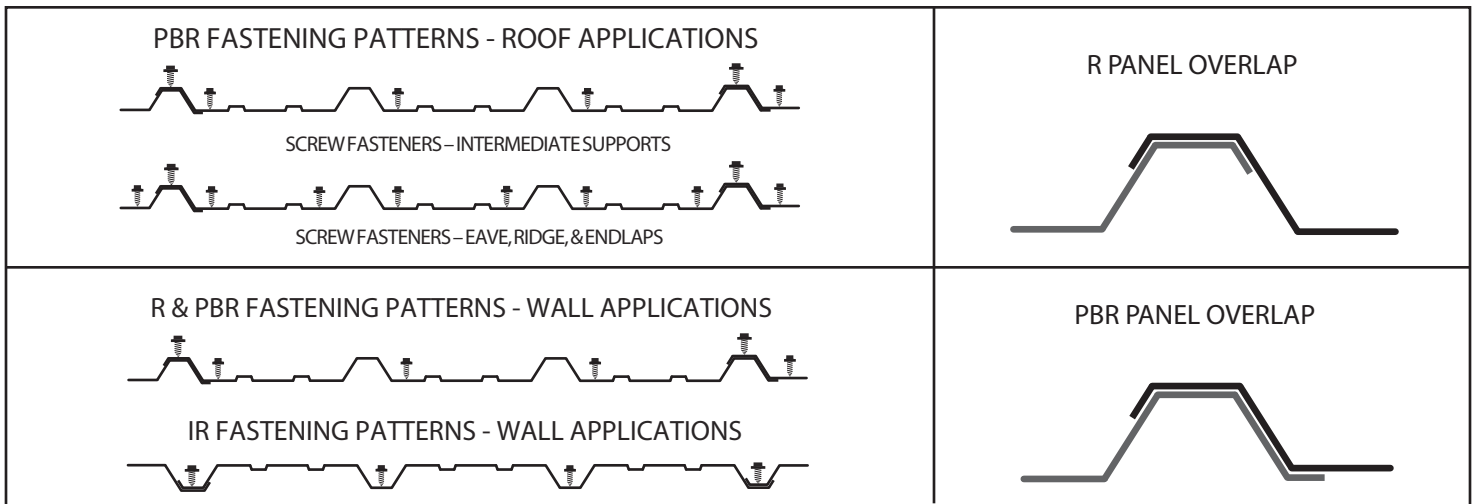
GA	TS	Allowable Live Loads (lb/ft ²)											Allowable Uplift Loads (lb/ft ²)										
		Span (ft)											Span (ft)										
		2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
26	Stress	235.9	163.6	119.4	90.6	71.0	57.0	46.7	38.9	32.9	28.2	24.4	205.3	139.5	100.4	75.4	58.7	46.8	38.2	31.8	26.8	22.9	19.8
	80 ksi L/180	728.5	373.0	215.9	135.9	91.1	64.0	46.6	35.0	27.0	21.2	17.0	604.8	309.7	179.2	112.8	75.6	53.1	38.7	29.1	22.4	17.6	14.1
24	Stress	318.2	211.6	150.2	111.9	86.5	68.8	56.0	46.4	39.1	33.4	28.8	305.1	202.3	143.3	106.6	82.3	65.4	53.2	44.1	37.2	31.7	27.4
	50 ksi L/180	1161.5	594.7	344.1	216.7	145.2	102.0	74.3	55.8	43.0	33.8	27.1	914.1	468.0	270.8	170.6	114.3	80.2	58.5	44.0	33.9	26.6	21.3

NOTES:

- All load data is based on three or more spans (TS). For more information regarding spans or section properties, please contact Union Corrugating.
- Allowable load based on stress is the smallest load due to bending, shear and combined bending and shear.
- Allowable load based on deflection limit cannot exceed allowable load based on stress.
- These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
- Allowable uplift loads based on stress have not been increased by 33.33% for wind uplift.
- Allowable loads for deflection are based on deflection limitation of span/180.
- For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual 'live load' carrying capacity of the panel.

RECOMMENDED FASTENING PATTERN FOR 1-1/2" SCREWS

PANEL OVERLAP



STORAGE

If the panels are not to be used immediately, store inside in a well ventilated and dry location. Condensation or other moisture can form between the sheets during storage causing water stains or white rust which detract from the appearance of the product and may effect the product's useful life. Trapped moisture between sheets of painted metal can cause white rust to form underneath the paint. This can cause the paint to flake off of the panel immediately or several years later. To prevent white rust and staining, the following precautions should be taken:

1. Break the shipping bands on the metal and wipe the sheets dry.
2. Store metal on end or on an incline of at least 8" with support bands underneath to prevent sagging.
3. Fan sheets slightly at the bottom to allow for air circulation.
4. Keep the sheets off of the ground with an insulator such as wood.

Any outdoor storage is at the customer's own risk. If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. Never cover the metal with plastic as this will cause condensation to form.

BEFORE BEGINNING INSTALLATION OF THIS PRODUCT, READ OUR INSTALLATION INSTRUCTIONS.

** For more information, call (888) MTL-ROOF or visit our website at www.unionmetalroofing.com **