Model PBR Panel

File Number: R42119

COMPANY

Metal Exteriors LLC
8511 Shiloh Norwalk Rd
Shiloh, OH 44878-8997 United States

MODEL INFO

PBR Panel
Metal Roof Deck Panels

UPLIFT RESISTANCE CLASSIFIED ROOF DECK CONSTRUCTION(S)

Construction Number	Uplift Class (UL 580)	Material Type	Construction Notes
30	Class 90	Steel	
30	Class 30	Steel	
54	Class 90	Steel	
54	Class 60	Steel	
79	Class 90	Steel	
104	Class 90	Steel	
112	Class 90	Steel	
161	Class 90	Steel	
167	Class 90	Steel	
184	Class 90	Steel	
542	Class 90	Steel	

Report Date: 2026-06-01
Revision Date: 2026-06-02

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

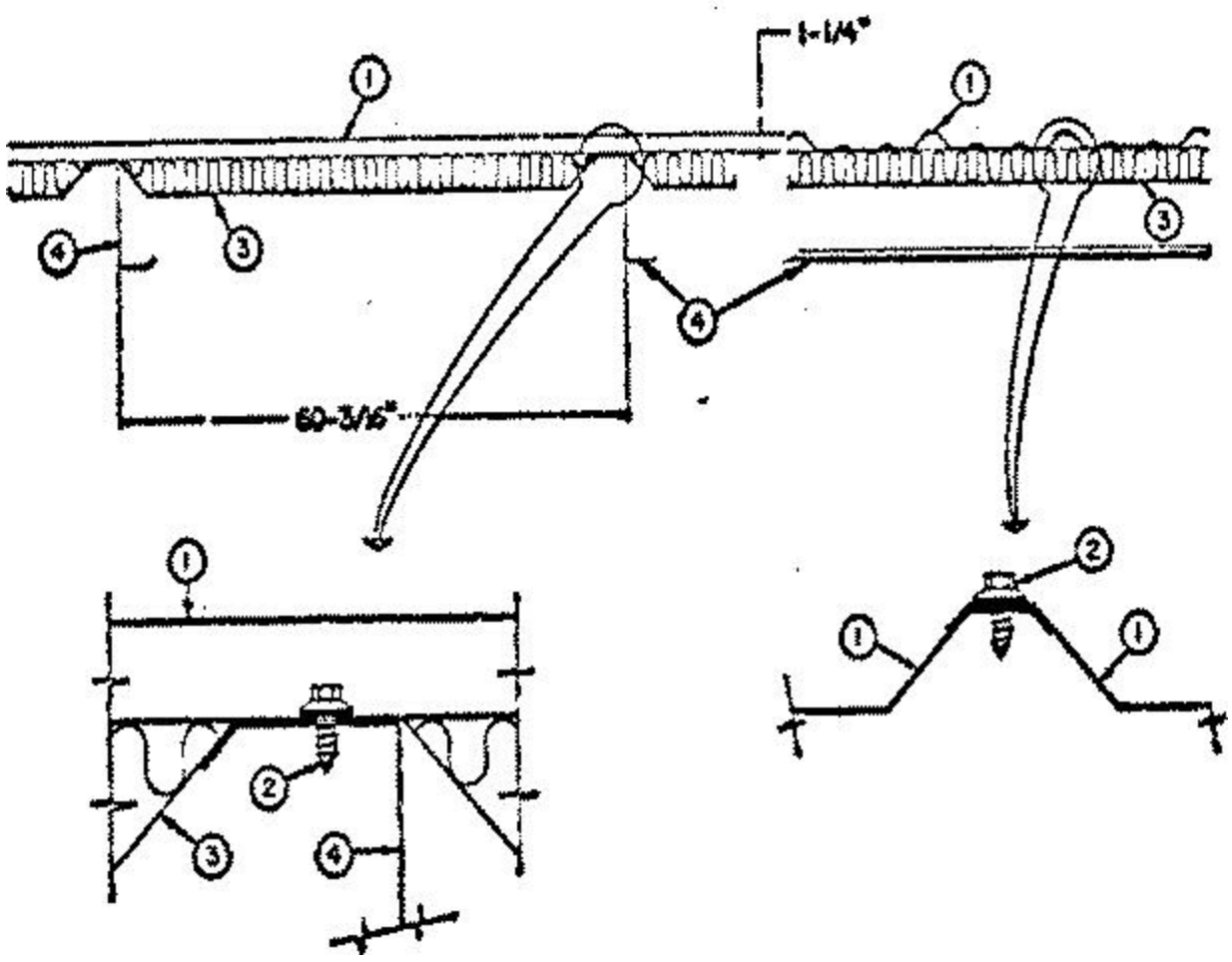
Roof Deck Constructions

See General Information for Roof Deck Constructions

Construction No. 30

September 22, 2026

Uplift — Class 90 or Class 30
Fire Not Investigated



1. **Metal Roof Deck Panels* —** No. 26 MSG min gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 3 in. min., 6 in. max with lap beginning even with purlin web and extending across purlin flange. A bead of sealant may be used at panel end and side laps.

ACI BUILDING SYSTEMS INC (View Classification) — "R" or "PBR Panel"

ALFORD METALS INC. — (View Classification) "PBR Panel"

ALLIED STEEL BUILDINGS (View Classification) — "PBR"

ALLSOUTH PRE-ENGINEERED COMPONENTS L L C (View Classification) — "R" or "PBR" Panel

ALL STEEL BUILDINGS & COMPONENTS TUBULAR DIVISION INC (View Classification) — "R or PBR panel"

ALLIANCE STEEL INC (View Classification) — "Alliance PBR"

AMERICAN BUILDING CO (View Classification) — "R-Panel"

AMERICAN BUILDING COMPONENTS (View Classification) — "R or PBR Panel"

BERRIDGE MFG CO (View Classification) — "R Panel"

BORGA STEEL INC (View Classification) — "BSP"

BRIDGER STEEL (View Classification) — "PBR Panel"

BUILDING COMPONENTS INC (View Classification) — "R-Panel" or "PBR-Panel"

BBM STEEL BUILDINGS INC (View Classification) — "R-Panel"

B C STEEL BUILDINGS INC (View Classification) — "R/PBR"

CBC COMMERCIAL BUILDING COMPONENT INC (View Classification) — "R-Panel"

CENTRAL TEXAS METAL ROLLFORMING INC (View Classification) — "R-Panel" or "PBR-Panel"

CO BUILDING SYSTEMS (View Classification) — "R" or "PBR"

CORLE BUILDING SYSTEMS INC (View Classification) — "R Panel"

CREGO METAL SYSTEMS (View Classification) — "CMR"

DELTA METALS LLC (View Classification) — "PBR"

EAST TEXAS ARCHITECTURAL SHEETMETAL L L C, DBA ETAS INC (View Classification) — "R Panel"

ECONOMY METALS INC (View Classification) — "R Panel"

ENCORE STEEL BUILDING COMPANY (View Classification) — "PBR"

FLATIRON STEEL (View Classification) — "PBR"

GUTTERMANS SUPPLY CORPORATION OF AMERICA **(View Classification)** — "RCPBR125"

H&H METAL PRODUCTS INC (View Classification) — "PBR Panel"

HIXWOOD METAL LLC (View Classification) — "PBR 12” panel"

HORIZON STRUCTURAL SYSTEMS (View Classification) — "R" or "PBR"

HPM BUILDING SUPPLY (View Classification) — "Custom 4-Rib"

INDACO METALS L L C (View Classification) — "Indaco R" or "Indaco PBR"

IOWA STEEL MASTERS (View Classification) — "PBR Panel"

IRON BROTHERS Metals (View Classification) — "R" or "PBR"

JAG METALS LLC (View Classification) — "PBR Panel"

KIRBY BUILDING SYSTEMS INC (View Classification) — "R-Panel"

LEGACY METAL CENTER (View Classification) — "PBR"

JNL STEEL COMPONENTS INC (View Classification) — "R-PANEL" or "PBR-PANEL"

MARLYN METALS INC (View Classification) — "R" or "PBR"

MBCI (View Classification) — "R" or "PBR"

METAL EXTERIORS LLC (View Classification) — "PBR Panel"

METAL ROOFING SUPPLY & MFG (View Classification) — "PBR Panel"

METAL WHOLESALE L.L.C (View Classification) — "PBR Panel"

NCI BUILDING SYSTEMS L P (View Classification) — "R" or "PBR"

NORTHLAND STEEL AND TRIM (View Classification) — "R-Panel"

NORTH STAR METALS INC. (View Classification) — "PBR Panel"

NUCOR CORP. (NUCOR BUILDINGS GROUP) (View Classification) — "R-Panel"

OAKLAND METAL BUILDINGS INC (View Classification) — "PBR"

PINNACLE STRUCTURES INC (View Classification) — "PBR"

PRIME BUILDING COMPONENTS L L C (View Classification) — "R Panel" or "PBR Panel"

RIGID GLOBAL BUILDINGS L L C (View Classification) — "R" or "PBR"

SAN ANTONIO QUALITY METALS (View Classification) — "R-Panel"

SCHULTE BUILDING SYSTEMS INC (View Classification) — "R" or "PBR" Panel

SOUTHWEST METAL COMPONENTS AND SUPPLY LP (View Classification) — "R-Panel" or "PBR"

TAYLOR & SONS PIPE & STEEL INC (View Classification) — "R-Panel"

TAYLOR METAL INC, DBA TAYLOR METAL PRODUCTS (View Classification) — " PBR"

TERRY BUILDING CO INC (View Classification) — "R" Panel

TEXAR METALS INC (View Classification)— “PBR Panel”

TEXAS BUILDING AND ROOFING SUPPLIES INC (View Classification)— "R" or "PBR" Panel

TSB INDUSTRIAL INC (View Classification) — "R" Panel

UNION CORRUGATING CO (View Classification) — "R-Panel" or "PBR-Panel"

WEST TEXAS STEEL & SUPPLY (View Classification) — "R" or "PBR"

WHIRLWIND STEEL BUILDINGS INC (View Classification) — "Super-Span (X)"

XTREME METALS LLC (View Classification) — "PBR Panel"

2. **Panel Fasteners —** For panel to purlin and panel to panel connections to be No. 14 self-tapping, hex-head, plated steel or stainless steel screws with a separate 5/8 in. O.D. steel or aluminum washer and a separate neoprene sealing washer. Length: For panel to panel fasteners to be 3/4 in. for insulation up to 3 in. thick and 1-1/4 in. for insulation over 3 in. thick.
For panel to panel fasteners to be 3/4 in.

For Class 90: Spacing for panel to purlin connections to be in a 4-8-4-8 in. pattern located 2 in. from the center line on both sides of each major rib. Spacing at end laps to be the same. Spacing for panel to panel connections to be

20 in. O.C. max with a fastener located over each purlin.

For Class 30: For panel to purlin connections to be 12 in. O.C. located 2 in. from the center line of each major rib. Spacing at end laps to be the same. Spacing for panel to panel connections to be 20 in. O.C. with a fastener located over each purlin.

Pilot holes: For panel to purlin fasteners to be 13/64 in. diam.

For panel to panel fasteners to be 1/8 in. diam.

As an alternate fastener: No. 12-14 self-drilling, self-tapping, 1/2 in. hex-washer head Type B, steel or stainless steel screws with a neoprene sealing washer may be used. Length: For panel to purlin fasteners to be 1 in. for insulation up to 3 in. and 1-1/2 in. for insulation over 3 in. for panel to panel connections to be 1 in. Spacing to be the same.

3. **Insulation —** (Optional) — Any compressible blanket insulation, 4 in. max thickness before compression.

4. Purlins —
For Class 90: No. 14 MSG min gauge steel.

For Class 30: No. 16 MSG min gauge steel.

(50,000 psi min yield strength).

5. **Lateral Bracing —** (Not illustrated) As required.
Refer to General Information, Roof Deck Construction, (Roofing Materials and Systems Directory) for Items not evaluated.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2026-09-22

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