

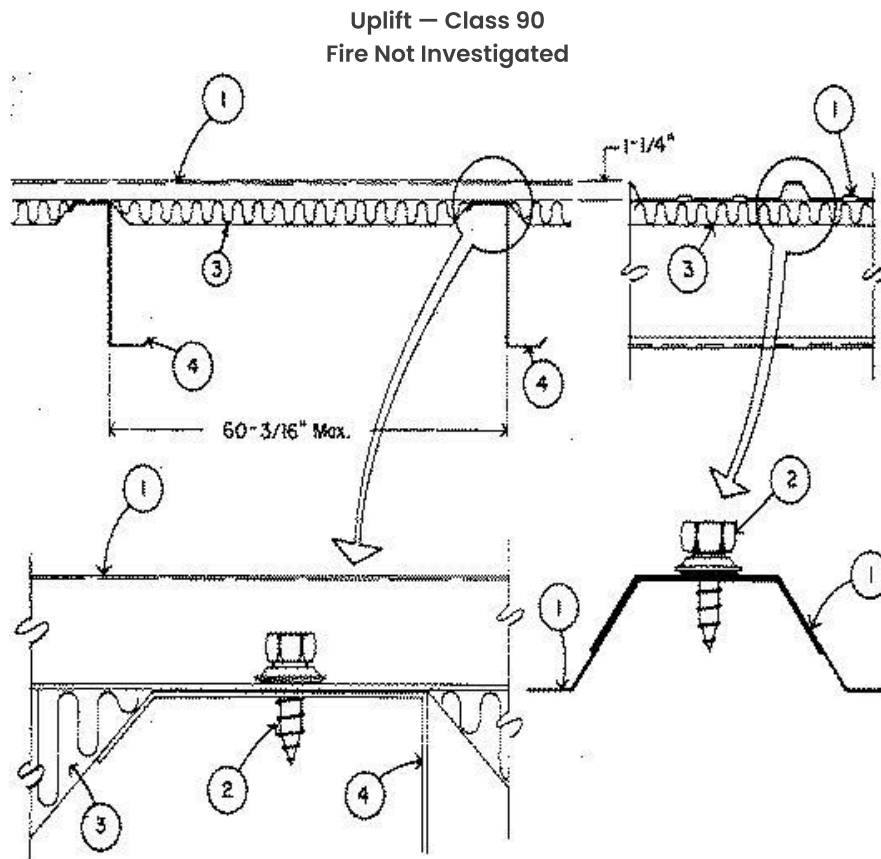
Design/System/Construction/Assembly Usage Disclaimer

- 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.

[See General Information for Roof Deck Constructions](#)

Construction No. 161

June 11, 2026



1. **Metal Roof Deck Panels*** — No. 26 MSG minimum gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 3 in. minimum, 6 in. maximum with lap centered over purlin web. A line of tape sealant may be used at panel side and end laps.

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

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

ALLIANCE STEEL INC ([View Classification](#)) — "Alliance PBR"

ALLIED STEEL BUILDINGS ([View Classification](#)) — "PBR"

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

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

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

AMERICAN BUILDINGS CO ([View Classification](#)) — "R-Panel"

BERRIDGE MFG CO ([View Classification](#)) — "R Panel"

BIGBEE STEEL BUILDINGS INC ([View Classification](#)) — "Bigbee-RibII"

BORGA STEEL INC ([View Classification](#)) — "BSP"

BRIDGER STEEL ([View Classification](#)) — "PBR Panel"

BUILDING COMPONENTS INC ([View Classification](#)) — "R-PANEL" or "PBR-PANEL"

BURROW CONSTRUCTION INC ([View Classification](#)) — "R Panel"

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

B C STEEL BUILDINGS INC ([View Classification](#)) — B C Steel Building "R/PBR"

CENTRAL STATES MFG INC ([View Classification](#)) — "R Loc"

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

CENTRIA, A DIVISION OF NCI GROUP, INC ([View Classification](#)) — "R" or "PBR"

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

CBC COMMERCIAL BUILDING COMPONENTS INC ([View Classification](#)) — "R-Panel"

COMPONENTS USA ([View Classification](#)) — "PBR Panel"

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

CREGO METAL SYSTEMS ([View Classification](#)) — "CMR"

DAKOTA STEEL & TRIM INC ([View Classification](#)) — "R Panel"

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"

FABRAL INC ([View Classification](#)) — "PBR Panel"

FLATIRON STEEL ([View Classification](#)) — "PBR"

GIDEON STEEL PANEL CO L L C ([View Classification](#)) — "Gideon R-Panel" or "Gideon PBR"

GRABER POST BLDS INC ([View Classification](#)) — "R-Panel"

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"

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

JAG METALS LLC ([View Classification](#)) — "PBR Panel"

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

IDEAL STEEL L L C ([View Classification](#)) — "PBR Panel"

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"

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

JOHN FLANERY DBA METAL COUNTRY ([View Classification](#)) — "R-Panel"

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

LEGACY METAL CENTER ([View Classification](#)) — "PBR"

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

MBCI ([View Classification](#)) — "R" or "PBR" Panel

MCELROY METAL MILL INC ([View Classification](#)) — "R Panel"

METAL EXTERIORS LLC ([View Classification](#)) — "PBR Panel"

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

METALLION INDUSTRIES INC ([View Classification](#)) — "PBR"

METALMAX L L C ([View Classification](#)) — "R Panel" or "PBR Panel"

METAL SALES MANUFACTURING CORPORATION ([View Classification](#)) — "R Panel", "PBR Panel".

MUELLER INC ([View Classification](#)) — "R" or "PBR"

MUELLER INC ([View Classification](#)) — "R" or "PBR"

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

NCI BUILDING SYSTEMS L P ([View Classification](#)) — "R" or "PBR" Panel

NCI Group, Inc. DBA Fortify Building Solutions ([View Classification](#)) — "PBR"

NORTHLAND STEEL AND TRIM ([View Classification](#)) — "R-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"

RAMCO BUILDER AND SUPPLY LLC — "R-Panel"

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

RUSH RIVER STEEL & TRIM ([View Classification](#)) — "PBR Panel"

S&S STEEL BUILDINGS INC ([View Classification](#)) — "RR" or "PRR"

SAN ANTONIO QUALITY METALS ([View Classification](#)) — "R-Panel", "PBR-Panel"

SBC BUILDING SYSTEMS L L C ([View Classification](#)) — "SBC PBR Panel"

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

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

SPIRKO MANUFACTURING ([View Classification](#)) — "R Panel"

STANDARD STRUCTURES INC ([View Classification](#)) — "PBR Panel" or "R Panel"

STEEL BUILDING SUPPLY INC ([View Classification](#)) — "R" or "PBR" Panel

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

TREMCO CPG INC. — "TremLock "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 panel and panel to purlin connections to be No. 12-14 by 1 in. self-drilling, self-tapping, hex head, plated steel screws with a 5/8 in. OD formed steel washer and a neoprene sealing washer or 1/4-14 x 1 1/4" minimum Self-Drilling, Self-Tapping Plated Steel Screw with a EPDM Sealing Washer. Panel to panel sidelap fastener; 1/4-14 x 7/8" SDST with a EPDM Sealing Washer.

As alternate Fasteners — For panel to purlin connections, 1/4 - 14 HHAB self-tapping, plating steel screws, with a separate 5/8 in. OD dome shaped steel washer and a neoprene sealing washer may be used.

Or: No. 14-10HHA, self-tapping, plating steel screws, with a separate, 5/8 in. OD dome shaped steel washer and a neoprene sealing washer may be used.

Spacing, for panel — to — purlin connections to be 12 in. on center beginning 2 — 1/2 in. from center line on one side of each major rib. Spacing at end lap to be in a 5 — 7 — 5 — 7 in. pattern beginning 2 — 1/2 in. from the center line on both sides of each major rib.

Fastener for panel to purlin connection to be 1-1/4 or 1-1/2 in. long when insulation (Item 3) is greater than 4-1/2 in.

Spacing for panel — to — panel connections to be 20 in. on center with a fastener located in line with the purlin fasteners.

3. **Insulation** — (Optional) — Any compressible blanket insulation 6 in. maximum thickness before compression.

4. **Purlin** — No. 16 MSG minimum gauge steel (50,000 psi minimum yield).

5. **Lateral Bracing** — (Not Shown) — As required.

Refer to General Information, Roof Deck Construction, (On-Line Certification 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.**

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