

Design/System/Construction/Assembly Usage Disclaimer

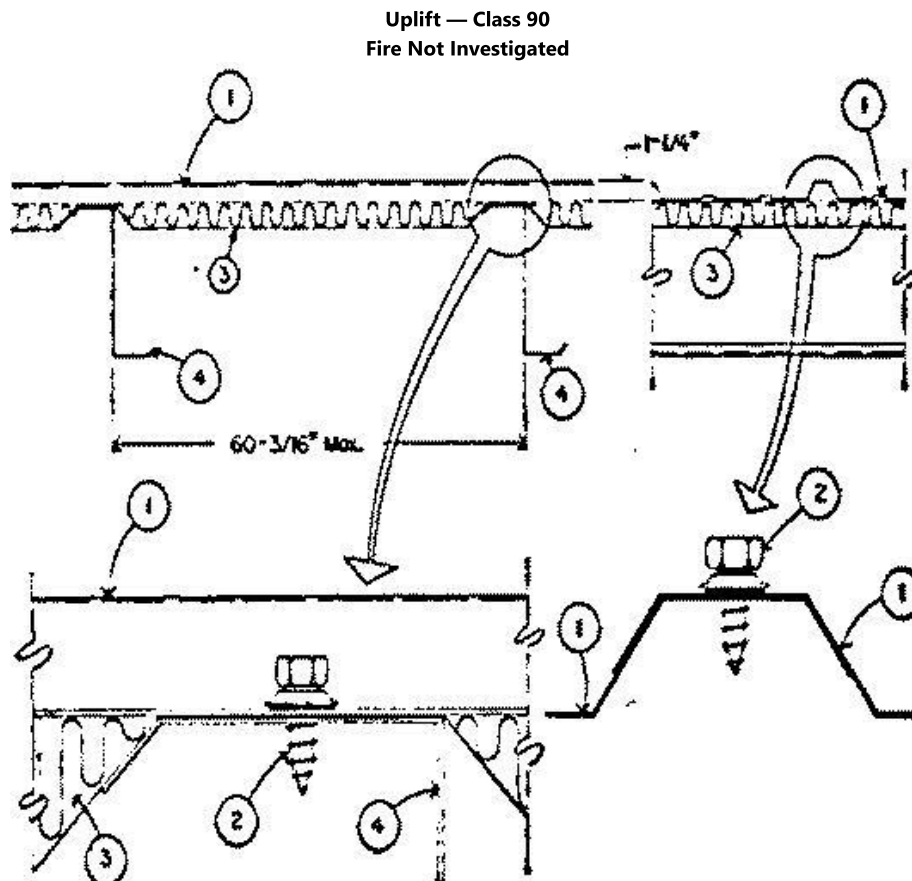
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies 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. 79

April 24, 2023



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 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"

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

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

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

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

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

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"

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

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

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

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

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"

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

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

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

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

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

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

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

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

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

MESCO METAL BUILDINGS ([View Classification](#)) — "R" or "PBR"

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

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

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

NORTHLAND STEEL AND TRIM ([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", "PBR-Panel"

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

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

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

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

TEXAS BUILDING AND ROOFING SUPPLIES INC — "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)"

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. OD steel or aluminum washer and a separate neoprene sealing washer. Length for panel to purlin fasteners to be 3/4 in. for insulation up to 3 in. and 1-1/4 in. for insulation over 3 in. For panel to panel fasteners to be 3/4 in. Spacing for panel to purlin fasteners to be 6 in. OC with fasteners located 3 in. from the center line on both sides of each major rib. Or; in a 5-7-5-7 in. pattern with fasteners located 2-1/2 in. from the center line on both sides of each major rib. Spacing at end laps to follow same spacing as that used for continuous panels. At end laps spacing to be 6 in. OC with fasteners located adjacent to major ribs.

Spacing for panel to panel fasteners to be 20 in. OC.

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 fasteners to be 1 in. Spacing to be the same.

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

4. **Purlin** — No. 16 MSG min gauge steel (50,000 psi min yield). Or: Min H series open web steel joists.

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

Refer to General Information, Roof Deck Constructions (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 2023-04-24

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL Solutions' Follow - Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL Solutions' Follow - Up Service. Always look for the Mark on the product.

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