

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

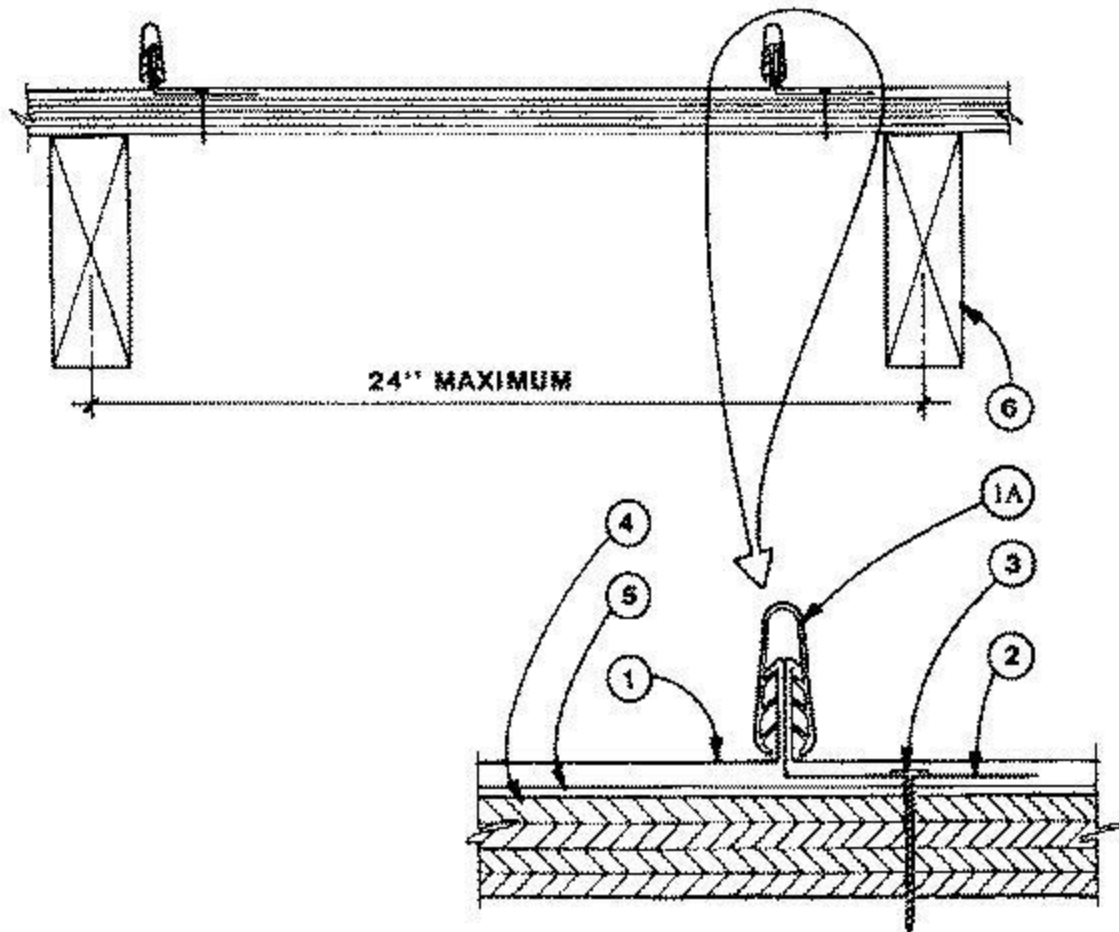
[See General Information for Roof Deck Constructions](#)

Construction No. 296

August 12, 2016

Uplift — Class 90

Fire Not Investigated



1. Metal Roof Deck Panels* — No. 24 MSG min coated steel. Max panel width 19-3/4 in. and rib height 5/8 to 1-5/16 in. Total seam with roof deck fastener (Item 2A) in place nom 1 in. Panels are continuous over two or more spans. End laps to occur adjacent to joists (Item 6) with panels overlapped 6 in. A line of sealant may be used at panel ends and side laps. Steel panels may be physically curved at a radius of 20 ft or greater.

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

FABRAL INC ([View Classification](#)) — "Snap-On-Seam"

METAL PANEL SYSTEMS INC ([View Classification](#)) — "Tee-Panel"

THREE DIAMOND FAB LLC ([View Classification](#)) — "Tee Panel"

1A. Metal Roof Deck Panels* — (Battens) — Battens covering panel ribs and clips (Item 2) to be 3/8 in. wide and 7/8 in. high formed from the same type and thickness material as that used to fabricate metal panels (Item 1). Inner surface of batten lined with extruded vinyl weather seal.

BERRIDGE MFG CO ([View Classification](#)) — "Snap On Seam"

1A1. Metal Roof Deck Panels* — Min. 0.032 aluminum panels. Max panel width 16.5 in. and rib height of 5/8 to 1-5/16 in. Total seam with roof deck fastener (Item 2A) in place nom 1 in. Panels are continuous over two or more spans. End laps to occur adjacent to joists (Item 6) with panels overlapped 6 in. A line of sealant may be used at panel ends and side laps.

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

2. **Roof Deck Fasteners*** — (Panel Clips) — One piece clip 3/4 or 1-1/4 in. high, 1-1/2 in. wide by 1-5/8 in. long. When steel metal roof deck panels are used (Item 1 and 1A) clips are spaced max 24 in. O.C., when aluminum metal roof deck panels are used (Item 1A1) clips are spaced 12 in. O.C. and located at the panel sides with guide holes in bottom to accommodate screw fasteners (Item 3).

BERRIDGE MFG CO ([View Classification](#)) — "Tee Clip"

3. **Fasteners** — (Screws) — Screws used to attach the panel clips (Item 2) to plywood (Item 4) to be No. 10 by 1 in. long Pancake head wood screw with a No. 2 Phillips head size or No. 10 by 1 in. long Hex head wood screw. One screw per clip. Screws used to attach plywood substructure to wood trusses or joists (Item 6) to be No. 8 by 2 in. Bugle head screws. As an optional fastener, 2-1/2 in. long 8d common deformed shank nails may be used. When light gauge structural steel joists are used, screws to be No. 12 by 1-5/8 in. long with a Phillips head.

Spacing of screws to be 6 in. OC at plywood ends and 12 in. OC at interior joints.

4. **Substructure** — (Plywood) — Plywood decking to be a nom 5/8 in. thick, exposure sheathing span C-D, 40/20 plywood. (All butt joints to be sealed against leakage by using tape and/or caulk).

5. **Felt Paper** — (Optional) — Two ply, 30 lb per 100 sq ft.

6. **Joists** — Joists spaced at 2 ft, 0 in. OC, may be one of the following:

A. Nom 2 by 6 in. wood joists No. 2 or better.

B. Nom 2 by 4 in. wood when used on a top cord of a wood truss, No. 2 or better.

C. Light gauge structural steel framing with the member against the plywood to be a min No. 22 MSG coated steel. 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 2016-08-12

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