

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](#)

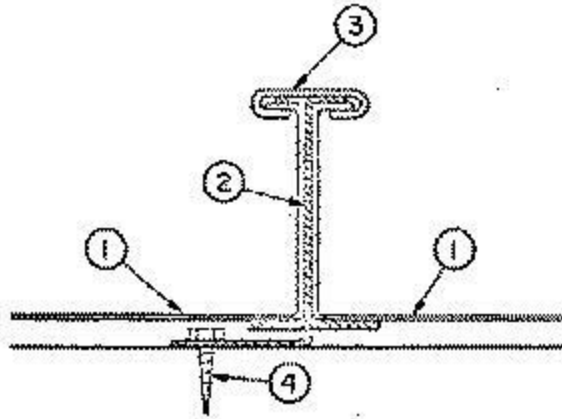
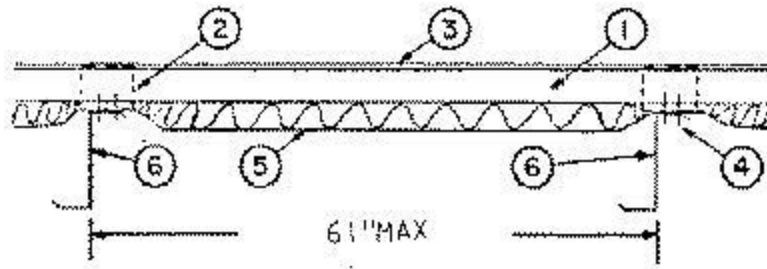
Construction No. 121

June 07, 2005

Metal Deck Assemblies

Wind Uplift — Steel Panels — Class 30

Fire Not Investigated



1. **Metal Roof Deck Panels*** — No. 24 MSG min gauge, 24 in. wide, coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 4 in. min with lap centered over purlin upper flange. Side laps to be continuously crimped with a special motorized tool. A bead of sealant may be used at panel end and side laps.

FABRAL INC — "Standing Seam T-Rib Clip".

2. **Panel Clip*** — No. 18 MSG min gauge coated steel. Min width 4 1/2 in., max height 3 3/4 in.

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3. **Cap Strip** — No. 24 MSG min gauge; channel shaped. 1-1/2 in. wide with two 1/2 in. long legs used at each panel in side joint. To be included in the operation.

4. **Fasteners** — Fasteners, used to attach panel clips to purlins, to be No. 12-14 by 1 in. plated steel screws with a 9/16 in. O.D. steel washer and a bonded neoprene sealing washer. Two fasteners per clip inserted into predrilled locations to be used. Fasteners used at end laps to be same type spaced in a 2-4-4-4-4-2 in. pattern beginning 2 in. from the side ribs and are driven into purlin upper flange. Fasteners used with floating end lap to be same type, 1-1/4 in. long with a 5/8 in. O.D. aluminum washer and a bonded neoprene sealing washer. Spacing to be in the same pattern as for nonfloating end lap.

5. **Insulation** — (Optional) — Any compressible type 4 in. max thickness before compression.

6. **Purlin** — No. 16 MSG min gauge steel (50,000 psi min yield strength) or min H series open web steel joists. Refer to General Information, Roof Deck Constructions, (Roofing Materials and Systems Directory) for Items not evaluated.

7. **Floating end lap** — (Not shown) — As an alternate, a splice plate may be used at the end-lap location. The plate is to rest on the purlin upper flange and is slipped over the lower panel. The plate measures 22-3/4 in. wide, 12 in. long with a 1 in. return leg and is fabricated from No. 18 MSG coated steel.

*** 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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