

TGKX.335 - Roof Deck Constructions

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

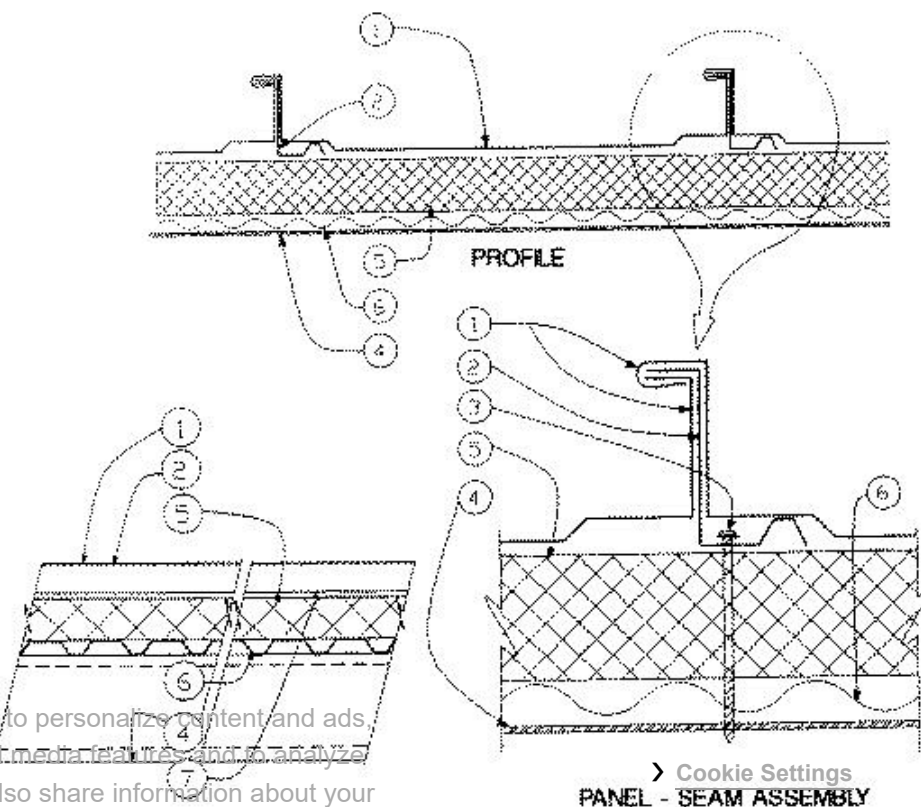
[See General Information for Roof Deck Constructions](#)

Construction No. 335

June 28, 2016

Uplift — Class 90

Fire Not Investigated



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PANEL - SEAM ASSEMBLY

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1. **Metal Roof Deck Panels*** — 24 MSG coated steel. Panels continuous over two or more spans without end laps. An optional extruded vinyl weather seal may be used at panel side joints. Panel rib side laps to be 16 in. on center. Adjacent panels to be seamed together along side using an electric seamer. For single lock (Zee-Lock Panel) seam to be 90 degrees. For double lock (Zee-Lock Double-Lock Panel) seam to 180 degrees. Seaming operation to include roof deck fastener (Item 2).

BERRIDGE MFG CO ([View Classification](#)) — Zee-Lock Panel, Zee-Lock Double-Lock Panel

METAL PANEL SYSTEMS INC ([View Classification](#)) — "Zee-Lock Panel" and "Zee-Lock Double Lock"

TAYLOR METAL INC, DBA TAYLOR METAL PRODUCTS ([View Classification](#)) — "MS200-S"

2. **Roof Deck Fasteners*** — (Panel Clips) — One piece assembly, 2 in. high, fabricated from 24 MSG coated steel. Clip located at each panel rib side lap with clip being continuous and equal to length of metal roof deck panels (Item 1).

BERRIDGE MFG CO ([View Classification](#)) — Continuous Zee-Rib Clip

3. **Fasteners** — (Screws) — For attaching liner panel (Item No. 4) fasteners to be No. 10 by 3/4 in. Fasteners to penetrate liner panel into purlins, spaced 5-1/2 in. OC. Fasteners at side lap to be same type spaced nom 8 in. OC. Fasteners used to attach panel clips (Item 2) to purlin through rigid insulation (Item 5) and liner panel (Item 4) to be No. 12 self drilling steel screws (one screw at each clip/purlin intersection). As an alternative, fasteners may penetrate through rigid insulation, (Item 5) and into liner panel (Item 4). Fasteners are to be spaced 18 to 24 in. O.C. when purlins (Item 4) spaced 4 ft max. Fastener length to vary with combined thickness of rigid insulation and liner panel with 3/4 in. min penetration into purlin or liner panel.

4. **Purlins** — 16 MSG min steel (min yield strength 50,000 psi). Spacing to be 5 ft. max when roof deck fasteners (Item 2) are attached to purlins and 4 ft max when roof deck fasteners (Item 2) are attached to liner panel.

5. **Rigid Insulation** — Rigid type, supplied in 4 by 8 ft sheets, min density to be 2.25 pcf. Max thickness 4 in.

6. **Liner Panel** — No. 24 MSG min coated steel, 40,000 psi min yield strength. Corrugation height to be min 3/4 in. Endlaps to occur over purlins with panels overlapped min 4 in.

7. **Felt Paper** — (Not Shown) — Two ply, 30 lb per 100 sq ft. Placed over rigid board insulation (Item 5).

8. **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 2016-06-28

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