



## Construction No. 687 TGKX.687 Roof Deck Constructions

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### 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

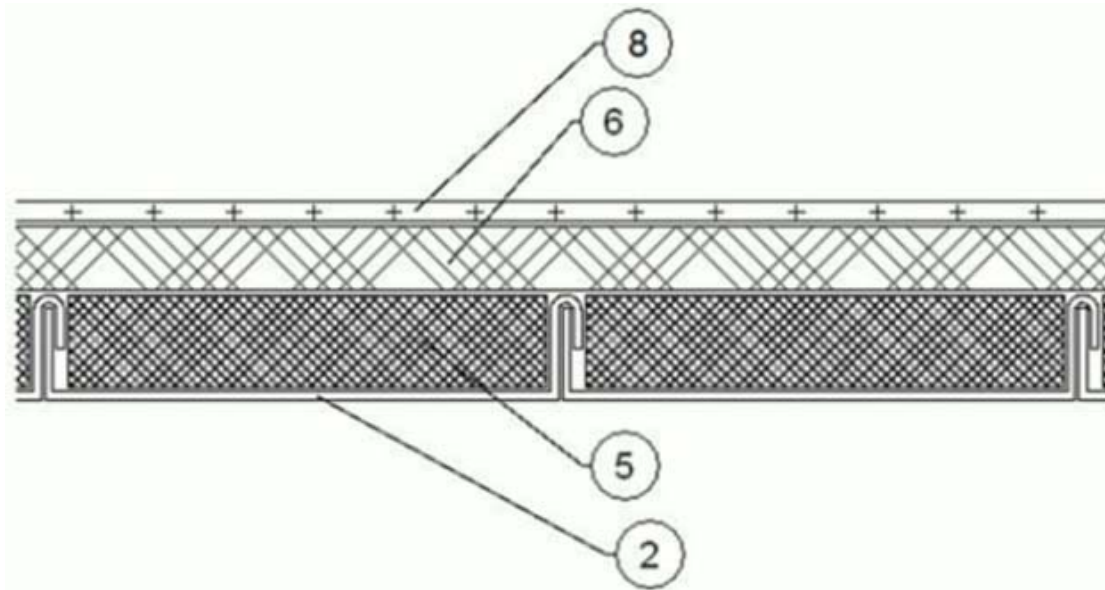
[See General Information for Roof Deck Constructions](#)

## Construction No. 687

February 23, 2015

Uplift — Not Investigated

Fire Classified



1. **Supports** — (Not Shown) — Joists, purlins or other structural supports found to be acceptable to Authorities Having Jurisdiction.
2. **Metal Roof Deck Panels** — R-Panels, Standing seam panels, 26 MSG min coated steel.
3. **Roof Deck Fasteners (Panel Clips)** — (Optional, Not Shown) — 26 MSG min coated steel.
4. **Fasteners (Screws)** — (Not Shown) — Fasteners used to attach Panel Clips (Item 3) or R-Panels (Item 2) to Supports (Item 1) found to be acceptable to Authorities Having Jurisdiction.
5. **Insulation\*** — Foam-Control EPS 1.5 pcf max. density, Classified by UL for use in Roofing Systems (TGFU) and Foam Plastics (BRYX). Density and total combined thickness of Insulation (Item 5) and Insulation (Item 6) not to exceed an

equivalent of 4 in. of 1.5 pcf density (e.g. 4.8 in. of 1.25 pcf density, 6 in. of 1.0 pcf density, etc.). Insulation may be loosely laid, adhered in place with an adhesive or mechanically fastened.

**AFM CORP** ([View Classification](#)) — "Foam-Control EPS"

**6. Insulation\*** — (Optional) — Foam-Control EPS 1.5 pcf max. density, Classified by UL under "Foamed Plastic" (BRYX) and for use with a Roof Covering (Item 8) in Roofing Systems (TGFU). May be loosely laid, adhered in place with an adhesive or mechanically fastened over the Insulation (Item 5). Density and total combined thickness of Insulation (Item 5) and Foamed Plastic (Item 6) not to exceed an equivalent of 4 in. of 1.5 pcf density (e.g. 4.8 in. of 1.25 pcf density, 6 in. of 1.0 pcf density, etc.).

**AFM CORP** ([View Classification](#)) — "Foam-Control EPS"

**6A. Insulation\*** — (Optional) — Any polyisocyanurate insulation, any thickness, one or more layers, Classified by UL for use with a Membrane (Item 8) in Roofing Systems (TGFU). May be loosely laid, adhered in place with an adhesive or mechanically fastened over the Foamed Plastic (Item 5).

**7. Barrier Board** — (Optional — Not Shown) — 1/2 in. thick (min) wood fiberboard, 1/4 in. thick (min) G-P Gypsum "DensDeck®", 1/4 in. thick (min) Owens Corning "Strataguard", 1/4 in. thick (min) USG Corp. "SECUROCK Glass-Mat Roof Board" (Type SGMRX) or "SECUROCK Gypsum-Fiber Roof Board" (Type FRX-G), 1/4 in. thick (min) CertainTeed Gypsum "GlassRoc", 1/4 in. thick (min) National Gypsum "DEXcell Glass Mat Roof Board" or "DEXcell FA Glass Mat Roof Board" or 1/2 in. thick (min) regular gypsum board, 7/16 in. thick (min) OSB or 15/32 in. thick (min) plywood for use over Item 5, Item 6 or Item 6A insulations.

**7A. Mineral and Fiber Boards\*** — (Optional — Not Shown) — Classified by UL as "Mineral and Fiber Boards" for use in Roofing Systems (TGFU) utilizing Membrane specified in Item 8. Loosely laid, mechanically fastened or adhesively attached over Foamed Plastic (Item 5), Classified Insulation (Item 6) or Foamed Plastic (Item 6A).

**7B. Protection/Cover Board\*** — (Optional — Not Shown) — Protection/Cover Board Classified by UL for use in Roofing Systems (TGFU) utilizing Membrane specified in Item 8. Loosely laid, mechanically fastened or adhesively attached directly over Foamed Plastic (Item 5), Classified Insulation (Item 6) or Foamed Plastic (Item 6A).

**8. Roof Covering\*** — A max 0.08 in. thick loose laid (ballasted), mechanically fastened or adhered membrane roof covering Classified by UL as for **Roofing Systems (TGFU)**.

**8A. Roof Covering\*** — In lieu of Item 8, a modified bitumen membrane roof covering over Barrier Board (Item 7) Classified as **Roof Covering for Roofing Systems (TGFU)**.

Refer to general information, Roof Deck Construction, 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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