



Construction No. 506F TGKX.506F Roof Deck Constructions

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- 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

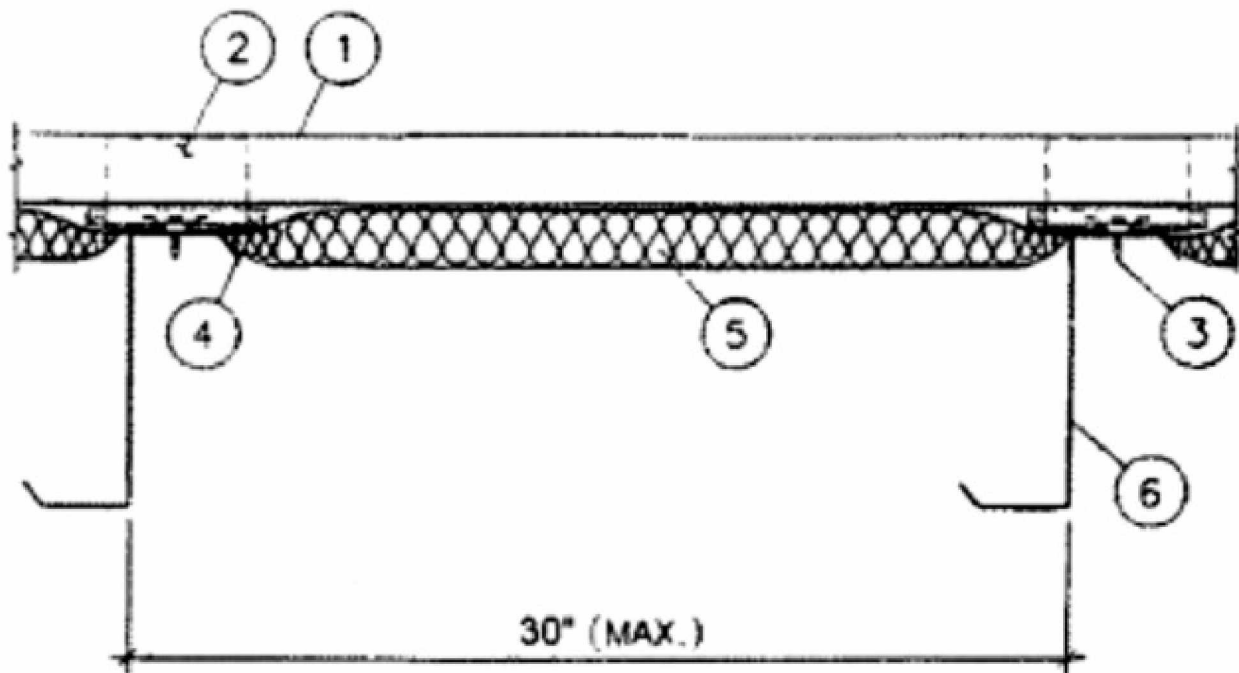
[See General Information for Roof Deck Constructions](#)

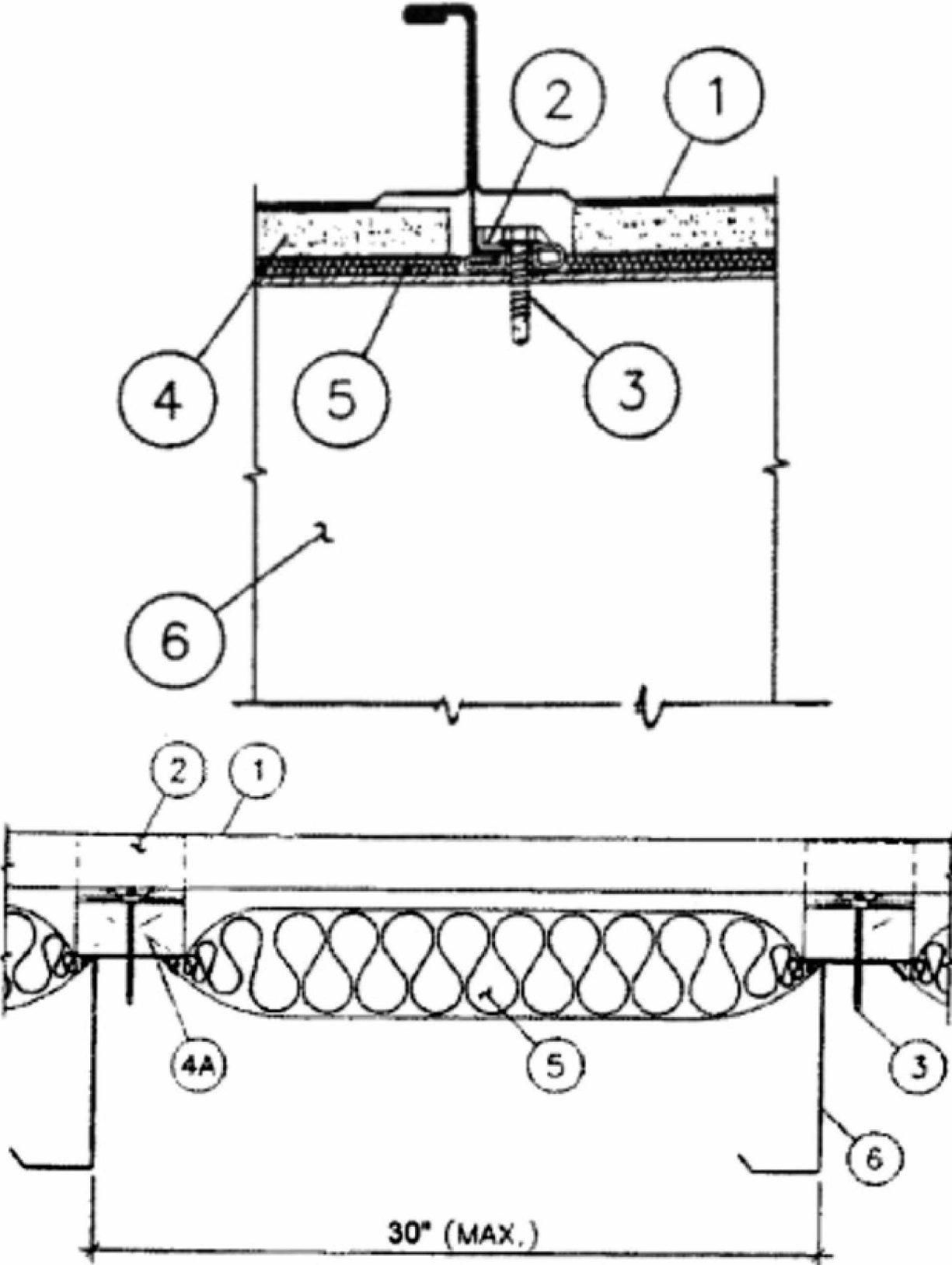
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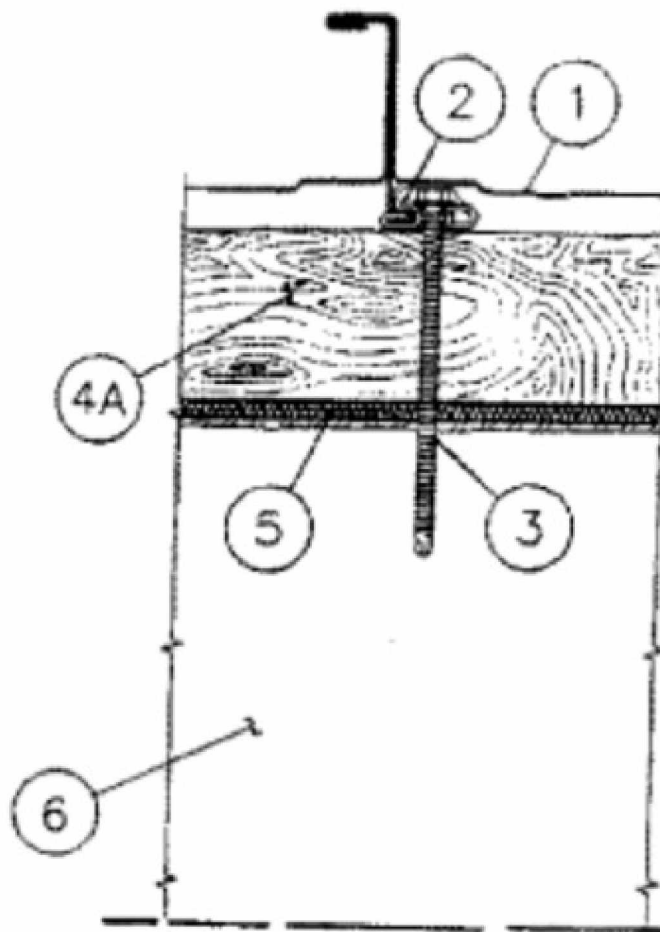
October 11, 2013

Uplift — Class 90

Fire Not Investigated







1. Metal Roof Deck Panels* — Panel width, max 18 in., min 12 in.; rib height 2 in., min. .032 in. thick aluminum. Panels continuous over two or more spans. The panel flat area may have optional striations or minor corrugations placed at various locations in the panel flat area beginning min of 2 in. from side ribs. The upper flange of the panel rib formed down to form an angle of 90 degree between the vertical segment and the top flange of the rib. A bead of sealant may be used at panel side ribs. Ribs to be seamed with an electric or hand seaming tool to form a flange with a tight hem. Seaming process to include the upper portion of the panel clips (Item 2).

CONSOLIDATED SYSTEMS INC ([View Classification](#)) — "SSS2"

MCELROY METAL MILL INC ([View Classification](#)) — "Maxima-212", "Maxima-216", "Maxima-218"

TREMCO INC ([View Classification](#)) — "TremLock VP212" or "TremLock VP216" or "TremLock VP218"

2. Roof Deck Fasteners* (Panel Clips) — Located at side of panels over purlins (Item 6). (Max spacing 30 in. OC). When wood thermal block (Item 4A) is used, clips to be located on top. Either of the following:

Fixed Clip — One piece assembly fabricated from No. 22 MSG min thick steel, 3-1/2 in. wide.

MCELROY METAL MILL INC ([View Classification](#)) — "Maxima Fixed Clip"

Floating Clip — Two piece assembly with a base fabricated from No. 16 MSG min thick steel, 2 in. wide and a top fabricated from No. 22 MSG min thick steel, 4-5/16 in. wide.

MCELROY METAL MILL INC ([View Classification](#)) — "Maxima Floating Clip"

3. Fasteners (Screws) — For panel clip-to-purlin attachment to be No. 1/4-14 by min 1 in. long self drilling, self-tapping hex-washer-head plated steel screws. Two fasteners used per clip. Fasteners used at end lap to be one of the following: No. 1/4-14 by 1 in. long Type AB point, self-drilling, self-tapping hex-washer-head plated or stainless steel screws or No. 12-14 by 1-1/4 in. long self-drilling self-tapping hex-washer-head plated steel screws. Spacing for 16 in. wide panels to be a 1, 3, 4, 4, 3 in. pattern; spacing for 18 in. wide panels to be a 1-1/2, 3-1/2, 4, 4, 3-1/2, 1-1/2 in. pattern. When optional dinch plate (Item 2B) is used, four fasteners to be required, inserted into factory punched guide holes.

4. **Thermal Spacer** — (Optional) — Polyisocyanurate — 3/8 in. min, 2-3/8 in. max thick, 4 in. min width, length sized to fit between panel clips (Item 2 or Item 2D).

4A. **Thermal Block** — (Optional) — Nom 2 by 4 in. wood, length continuous.

5. **Insulation** — (Optional) — Any compressible blanket insulation 8 in. max thick before compression, or 6 in. max thick when located between Thermal Spacer (Item 4) or Thermal Block (Item 4A) and purlin (Item 6).

6. **Purlins** — No. 16 MSG min thick steel (50 ksi min yield strength). Max spacing 30 in. OC.

Refer to general information, Roof Deck Construction, for Items not evaluated.

*Bearing the UL Classification Mark

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