

TGKX.614 - 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.
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Roof Deck Constructions

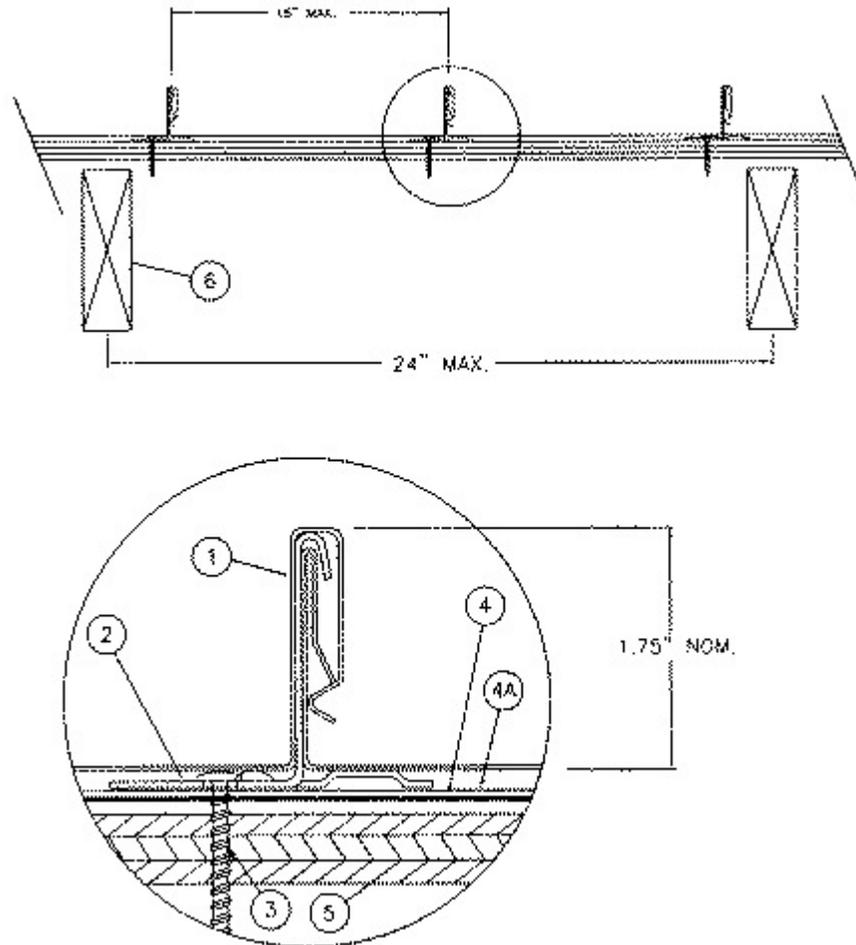
See General Information for Roof Deck Constructions

Construction No. 614

October 13, 2008

Uplift — Class 90

Fire Not Investigated



1. **Metal Roof Deck Panels*** — Max 16 in. wide and 1-3/4 in. high at the female rib, fabricated from 16 oz/ft², eighth-hard copper. Panels continuous over three or more clips with no end laps. A bead of sealant may be used at panel side joints.
CENTRAL TEXAS METAL ROLLFORMING INC (View Classification) — "Shurloc 175".

PETERSEN ALUMINUM CORP (View Classification) — "Snap-Clad"

STREAMLINE ROOFING & CONSTRUCTION INC (View Classification) — "175SL"

2. **Roof Deck Fasteners*(Panel Clips)** — One piece assembly, 3-3/4 in wide, 1-7/8 in. high with a 1-3/8 in. wide horizontal leg. The clip is to be fabricated from No. 18 MSG stainless steel. The clips are to be spaced a maximum of 24 in. OC.
PETERSEN ALUMINUM CORP (View Classification) — "Snap-Clad Clip"

3. **Panel Fasteners (Screws)** — Fasteners used to attach panel clip (Item 2) to plywood (Item 5) to be No. 10-16 by 1 in. long, pancake head coated steel screws. Two screws per clip inserted through 1/4 in. diam guide holes.

4. **Underlayment*** — Any UL Classified base or ply sheet, mechanically fastened with nails or staples.

4A. **Underlayment** — Rosin paper, 9 mil thick, mechanically fastened with nails or staples.

5. **Plywood Decking** — Plywood decking to be graded per PS83 specification, 19/32 in. thick, Grade B-C, exposure 1, APA rated sheathing (42/20) square edged. All plywood joints to be sealed against leakage with caulk or a one part urethane sealant.

6. **Supports** — Spaced max 24 in. OC. Any of the following types may be used to support the plywood decking:
a) 2 by 6 in., min No. 2 grade A.F.P.A. S-P-F Hemlock Fir, Douglas Fir or Southern Pine or equivalent.

b) Wood trusses with a nom 2 by 4 in. upper chord of the same grade as Item a.

c) No. 22 MSG min thick cold formed coated steel (min yield to be 33,000 psi).

7. **Plywood Fasteners** — (Not Shown) — Fasteners used to attach the plywood deck (Item 5) to the supports (Item 6) to be as follows:

a) For plywood-to-wood supports, No. 8-18 by 1-7/8 in. long bugle-head steel screws with a No. 2 Phillips drive, a "Hi-Low" thread pattern and an "S-Point".

b) As an alternate to Item a, 8d by 2-1/2 in. long deformed shank common nails may be used.

c) For plywood-to-steel supports for a steel thickness less than No. 20 MSG, No. 7-19 by 1-1/4 in. long bugle-head steel screws with a No. 2 Phillips head drive "Hi-Low" thread and an "S-Point". For a steel thickness greater than No. 20 MSG to No. 16 MSG, No. 6-20 by 1-1/4 in. long bugle-head steel screws with a No. 2 Phillips drive and an S12 (TEKS/3) ® point. Spacing: Fastener spacing for all fastener types to be 6 in. OC at the plywood edges and 12 in. OC in the interior.

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 2008-10-13

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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