



Construction No. 589 TGKX.589 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 Listed or Classified 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 as Classified, Listed, or Recognized.

Roof Deck Constructions

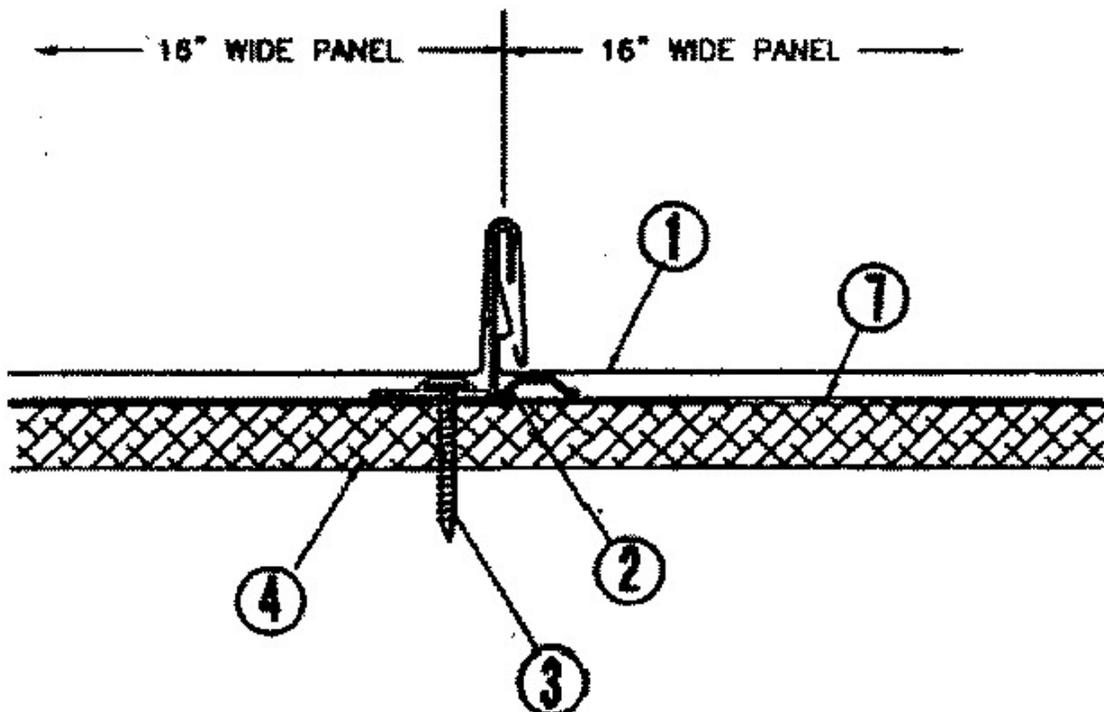
[See General Information for Roof Deck Constructions](#)

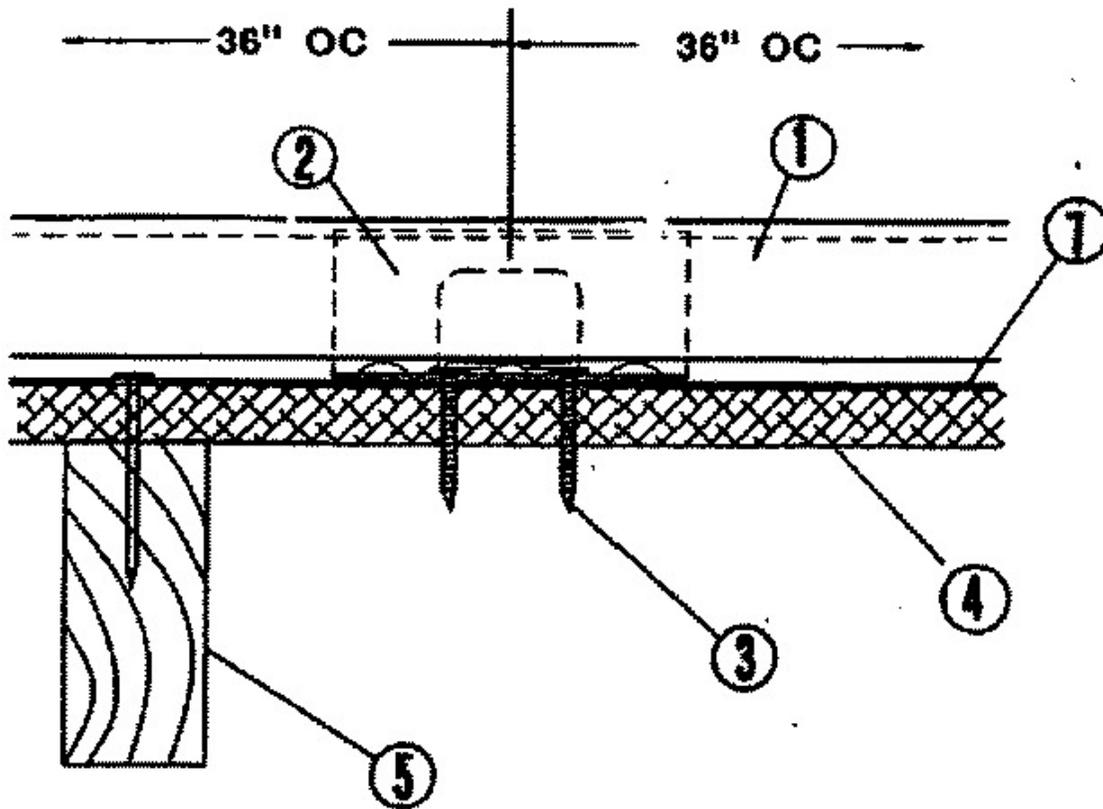
Construction No. 589

February 27, 2012

Uplift – Class 90

Fire Not Investigated





1. **Metal Roof Deck Panels*** — Min. 24 MSG (.0225 in.) thick coated steel; width 16 in., max. height of female rib 1-1/2 in., male rib 1-1/4 in. Panels continuous over three or more clips with no end laps. A bead of sealant may be used at panel ribs.

ADMIRAL BUILDING PRODUCTS INC ([View Classification](#)) — "Admiral Snap-On Standing Seam 1.5" High"

AMERICAN CONSTRUCTION METALS ([View Classification](#)) — "StayLOC"

ARCHITECTURAL INTEGRATED METALS INC ([View Classification](#)) — "SNAP-Lok"

BEACON SALES ACQUISITION INC ([View Classification](#)) — "Coastal 1-1/2 " Snap Seam Panel"

EAST TEXAS ARCHITECTURAL SHEETMETAL L

L C, DBA ETAS INC ([View Classification](#)) — "SNAP LOCK 1-1/2 in."

FE SAWYER BUILDING SYSTEMS INC, DBA

SAWYER METAL ([View Classification](#)) — "1-1/2 in. Snap Lock"

INTEGRIS METALS INC ([View Classification](#)) — "Integriss System 2"

MARLYN METALS INC ([View Classification](#)) — "1.5SL"

METAL FORMING INC ([View Classification](#)) — "1-1/2 in. Snap Lock"

MID-SOUTH METAL PRODUCTS ([View Classification](#)) — "MSMP 1 1/2 in. Snap Lock"

MODERN METAL SYSTEMS INC ([View Classification](#)) — "US150LS"

NEW TECH MACHINERY CORP ([View Classification](#)) — "SS450SL"

PREMIUM PANELS INC ([View Classification](#)) — "Premium Snap 450SL" or "P.S. 450SL"

ROLLFAB METAL BUILDING PRODUCTS ([View Classification](#)) — "1-1/2 in. Snap Lock"

SHEET METAL WORKS OF ARIZONA ([View Classification](#)) — "SS150"

SHEFFIELD METALS INTERNATIONAL ([View Classification](#)) — "SMI 1 ½" SnapLock 450SL"

UNION CORRUGATING CO ([View Classification](#)) — "SL150"

2. **Roof Deck Fasteners* (Panel Clips)** — One piece assembly, 3-3/4 in. wide at base with a 3-1/2 in. wide upper segment. Upper segment to have a 1/2 in. return. Base to have an opposing segment 7/8 in. long and 1-1/4 in. wide. Clips spaced 36 in. OC max.

ARCHITECTURAL METAL SPECIALTIES INC ([View Classification](#)) — "150-SLU-18-G"

METAL FORMING INC ([View Classification](#)) — "1500SNS"

3. **Panel Fasteners (Screws)** — The fasteners used to attach the panel clips to the plywood deck to be No. 10-12 by 1 in. long, No. 2 Phillips Drive, wafer-head, plated steel wood screws. Two screws used per clip.

4. **Plywood Deck** — Nominal 5/8 in. (19/32 in. actual) plywood., Grade C-D, APA rated. Fastened to supports (joists) using No. 8 by 2-1/2 in. long, No. 2 Phillips Drive, coarse thread, bugle head, steel screws. Screws spaced 6 in. OC max. at butt ends and 12 in. OC max. in the field. All joints to be sealed with a one part urethane sealant feathered outward from the joint.

5. **Joists** — Graded dimensional lumber, No. 2 or better. Spaced 24 in. OC max.

6. **Joist Hangers** — (Not Shown) - No. 18 MSG coated steel, open seat type.

7. **Ply Sheet*** — Any UL Classified underlayment, min. 2 in. sidelap, mechanically fastened.

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

*Bearing the UL Classification Mark

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