

TGKX.560 - 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

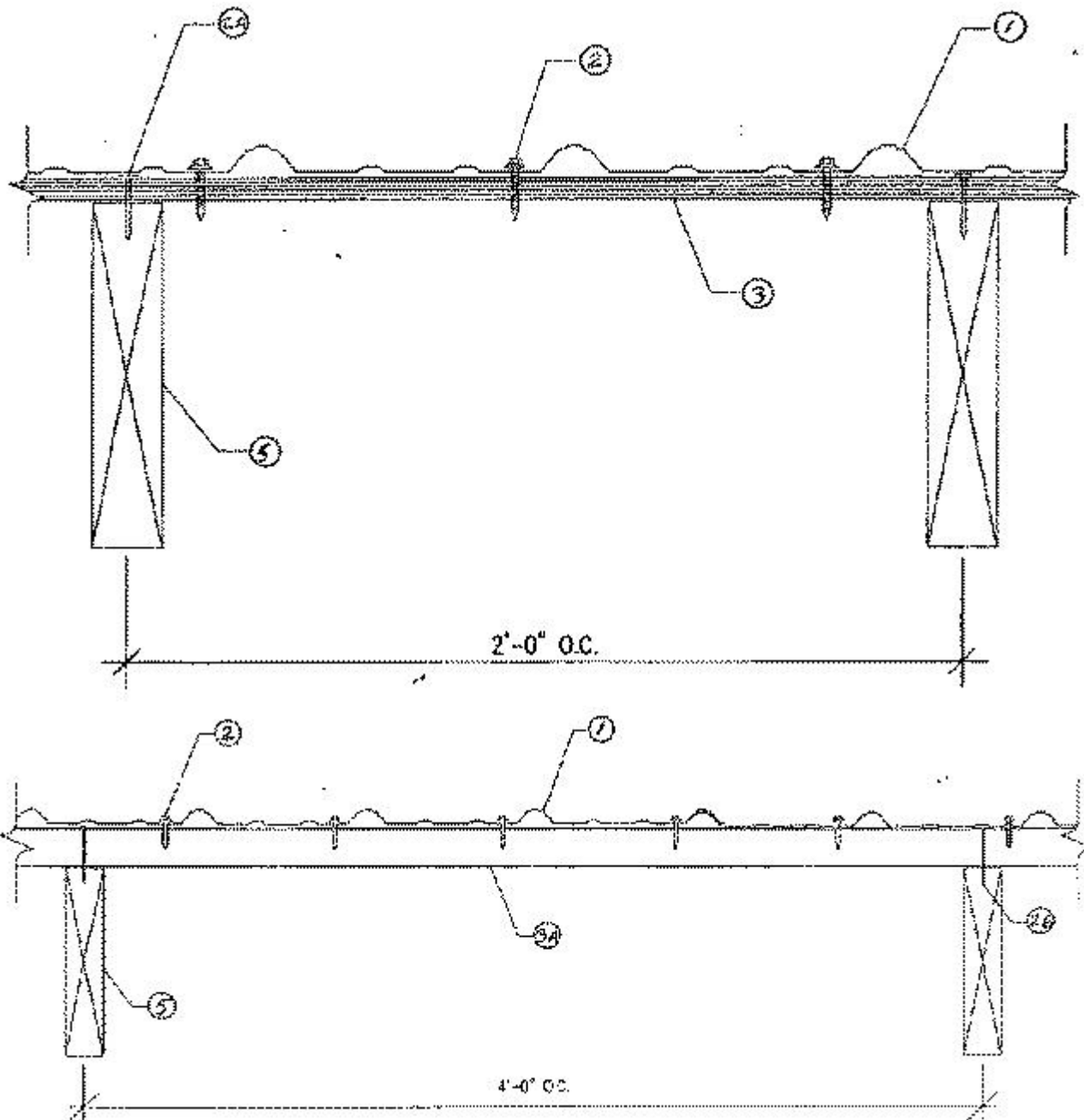
See General Information for Roof Deck Constructions

Construction No. 560

November 21, 2018

Uplift - Class 90

Fire Not Investigated



1. **Metal Roof Deck Panels*** — No. 29 MSG min coated steel. Max panel width 36 in Rib height max 3/4 in. Panels continuous over two or more spans. Panels to overlap 6 in. at endlaps and must occur adjacent to a support when plywood decking (Item 3) is not used. A bead of sealant may be used at panel endlaps and sidelaps.

ALL STEEL BUILDINGS & COMPONENTS TUBULAR DIVISION INC (View Classification) — "Master-Rib"

ALLIANCE STEEL INC (View Classification) — "Alliance IP"

ALPHA BUILDING CENTER (View Classification) — "A-Panel"

AMERICAN BUILDING COMPONENTS (View Classification) — "Imperial Rib"

BBM STEEL BUILDINGS INC (View Classification) — "Ag-Panel"

BEACON SALES ACQUISITION INC, DBA COASTAL METAL SERVICE (View Classification) — "Rib Loc"

BENTON METAL DEPOT INC (View Classification) — "Rib Panel"

BRIDGER STEEL (View Classification) — "3 ft. tuf-rib"

BURROW CONSTRUCTION INC (View Classification) — "Quadra Loc Plus"

CAROLINA CARPORTS INC (View Classification) — ""Carolina Ridge""

CENTRAL STATES MFG INC (View Classification) — "Panel-Loc Plus"

CENTRAL TEXAS METAL ROLLFORMING INC (View Classification) — "Frontier Rib"

DAKOTA STEEL & TRIM INC (View Classification) — "Strong Rib" or "Pioneer Rib"

DAVISS COUNTY METAL SALES INC (View Classification) — "D.C. Rib"

DELTA METALS LLC (View Classification) — "Delta Max Rib"

EAST TEXAS ARCHITECTURAL SHEETMETAL L L C, DBA ETAS INC (View Classification) — "R Panel"

EVERLAST ROOFING INC (View Classification) — "Everlast II"

FABRAL INC (View Classification) — "Grandrib 3", "TrustiRib", "Shelterguard", "5 Rib" or "Alu-Tuff"

FLAMCO OF TEXAS INC (View Classification) — "Versa-Rib"

FLATIRON STEEL (View Classification) — "Tuff-Rib"

GRABER POST BLDS INC (View Classification) — "G-Rib"

H&H METAL PRODUCTS INC (View Classification) — "Uni-Panel"

HIXWOOD METAL INC (View Classification) — "Super Rib 100" or "Super Rib 60"

INDACO METALS L L C (View Classification) — "Indaco Duraloc"

JNL STEEL COMPONENTS INC (View Classification) — Type "AG-PANEL"

JOHN FLANERY DBA METAL COUNTRY (View Classification) — "Max-Panel"

LONG CREEK STEEL (View Classification) — "Tuff-Rib"

MARLYN METALS INC (View Classification) — "Mar-Rib"

MBCI (View Classification) — "Stormproof"

MENARDS/MIDWEST MFG (View Classification) — "Pro-Rib" or "Premium Pro-Rib"

METALLION INDUSTRIES INC (View Classification) — "Magna Rib"

METAL PANELS INC (View Classification) — "Strongseam AG Panel"

METAL SALES MANUFACTURING CORPORATION (View Classification) — "Classic Rib"

METAL WHOLESALE L.L.C (View Classification) — "3/4" Rib Panel"

MCELROY METAL MILL INC (View Classification) — "Max-Rib" or "Mesa"

METALMAX L L C (View Classification) — "Tuffrib Panel"

NCI BUILDING SYSTEMS L P (View Classification) — "Stormproof"

NORTHLAND STEEL AND TRIM (View Classification) — "D-Rib"

PARAMOUNT METALS INC (View Classification) — "Smart Rib Plus"

PROTECH STEEL LLC (View Classification) — "Tuff Rib"

RAMCO BUILDER AND SUPPLY LLC (View Classification) — "Ram-Panel"

REEDS METALS OF BENTON (View Classification) — "Residential"

SAN ANTONIO QUALITY METALS — "AG" Panel

STEEL BUILDING SUPPLY INC (View Classification) — "Max-Rib" or "AG" Panel

TAYLOR & SONS PIPE & STEEL INC (View Classification) — "AG-Panel"

TERRY BUILDING CO INC (View Classification) — "Ag" Panel

TSB INDUSTRIAL INC (View Classification) — "Ag/Tuff-Rib" Panel

TREMCO INC — "TremLock Ultra-Rib"

WHEATLAND STEEL AND TRIM LLC (View Classification) — "Tru-D-Rib"

WHEELER METALS INC (View Classification) — "Low Rib Plus"

WHIRLWIND STEEL BUILDINGS INC (View Classification) — "Sturdi-Rib"

2. **Fasteners — (Screws)** — For panel attachment to wood deck (Item 3), fasteners to be 1/4 in. -14x1-1/2 in. long Type AB of No. 14x1-1/2 in. long Type A when substructure is plywood decking (Item 3). When 2x4 lathing (Item 3A) is used, fasteners may be any of the following: 1/4 in. -14x1-1/2 in. long Type AB, No. 14x1-1/2 in. long Type AB, No. 14x1-1/2 in. long Type A, No. 10x1-1/2 in. long Woodgrip or No. 10-14 x 1-1/2 in. hex-washer head wood screw with bonded neoprene washer. Fasteners to be installed 24 in. OC along the length of the panel. Fastener spacing across the width of panel to 9 in. on center beginning 1-3/4 in. from the center line on one side of each major rib. Fastener spacing at panel ends to be in a 1-3/4 in. from the center line on one side of each major rib. Fastener spacing at panel ends to be in a 1-3/4, 5-1/2, 3-3/4, 5-1/2, 3-3/4, 5-1/2, 3-3/4, 5-1/2 in.

2A. **Fasteners — (Screws and Nails)** — For attachment of plywood deck (Item 3) to joists (Item 5), fasteners to be min. No. 6x1-7/8 in. long bugle head screw or annular ring-shank nails. Spacing to be 6 in. OC at plywood edges and 12 in. OC at intermediate

supports.

2B. **Fasteners — (Screws)** — For attachment of 2x4 lathing (Item 3A) to joists (Item 5), fasteners to be min. No. 8x3 in. long bugle head screw, two screws per attachment point.

3. **Substructure — (Plywood)** — Plywood decking to be a nom 5/8 in. thick, exposure sheathing span C-D, 40/20 plywood. All butt joints to be sealed against leakage by using tape and/or caulk or with one- part urethane sealant.

3A. **Substructure — (Lathing)** — Lathing to be nominal 2x4 wood, No. 2 or better, spaced 24 in. on center max.

4. **Moisture Barrier** — (Optional) (Not Shown) — Any suitable membrane to protect substructure (Item 3 or 3A).

5. **Joists** — Joists spaced at 2 ft, 0 in. OC when plywood decking is used and 48 in. on center when 2x4 lathing (Item 3A) is used, may be one of the following:

A. Nom 2 by 10 in. wood joists No. 2 or better.

B. Nom 2 by 4 in. wood when used on a top cord of a wood truss, No. 2 or better.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Refer to general information, Roof Deck Construction, (Roofing Materials and Systems Directory) for Items not evaluated.

Last Updated on 2018-11-21

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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