



## Construction No. 649 TGKX.649 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

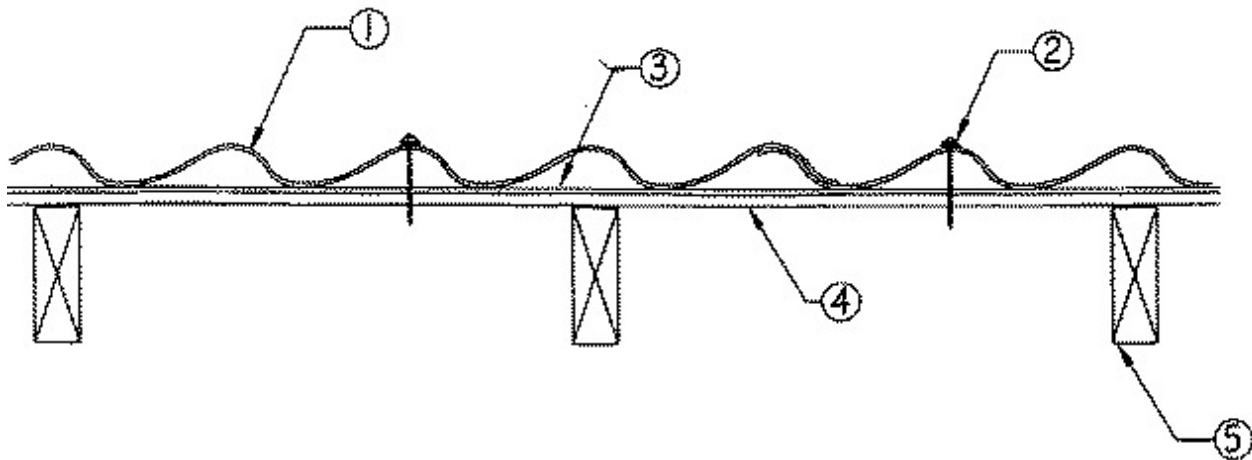
[See General Information for Roof Deck Constructions](#)

## Construction No. 649

September 26, 2013

**Uplift — Class 90**

**Fire Classified**



1. **Metal Roof Deck Panels\*** — Minimum 0.0172 in. thick or 26 MSG coated steel. Max panel width 36 in.

**BORGA STEEL INC** ([View Classification](#)) — "Classic"

**MCELROY METAL MILL INC** ([View Classification](#)) — "Multi-Cor"

**METAL SALES MANUFACTURING CORPORATION** ([View Classification](#)) — "7/8" Corrugated"

**TREMCO INC** ([View Classification](#)) — "TremLock "S" Panel"

2. **Fasteners** — Fasteners used to attach the plywood deck (Item 3) to the joists (Item 5) to be No. 8D ring

shank nails spaced 6 in. OC at plywood edges and 6 in. OC in the field. Fasteners used to attach the panels to the plywood deck to be No. 14 by 1-1/2 in. long Type A hex head steel screws with 9/16 in. diameter metal washer and bonded neoprene rubber seal or No. 10-14 x 1-1/2 in. hex-washer head wood screws with bonded neoprene washer. Screws to be spaced 8 in. O.C. along the width of the panel and 24 in. O.C. along the length of the panel. The overlapping panel edges to be fastened together with No. 14 by 7/8 in. long hex head steel screws spaced 20 in. O.C. along the length of the panel.

3. **Deck** — Min 19/32 in. thick, Type B-C rated plywood, all butt joints to occur over supports.
4. **Underlayment (Optional)** — 30 lb felt, min 2 in. sidelap, attached per manufacturers recommendations.
5. **Joists** — Graded dimension lumber, No. 2 or better. Spaced a maximum of 24 in. OC.

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

\*Bearing the UL Classification Mark

Last Updated on 2013-09-26

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