



Construction No. 573 TGKX.573 Roof Deck Constructions

[Page Bottom](#)

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

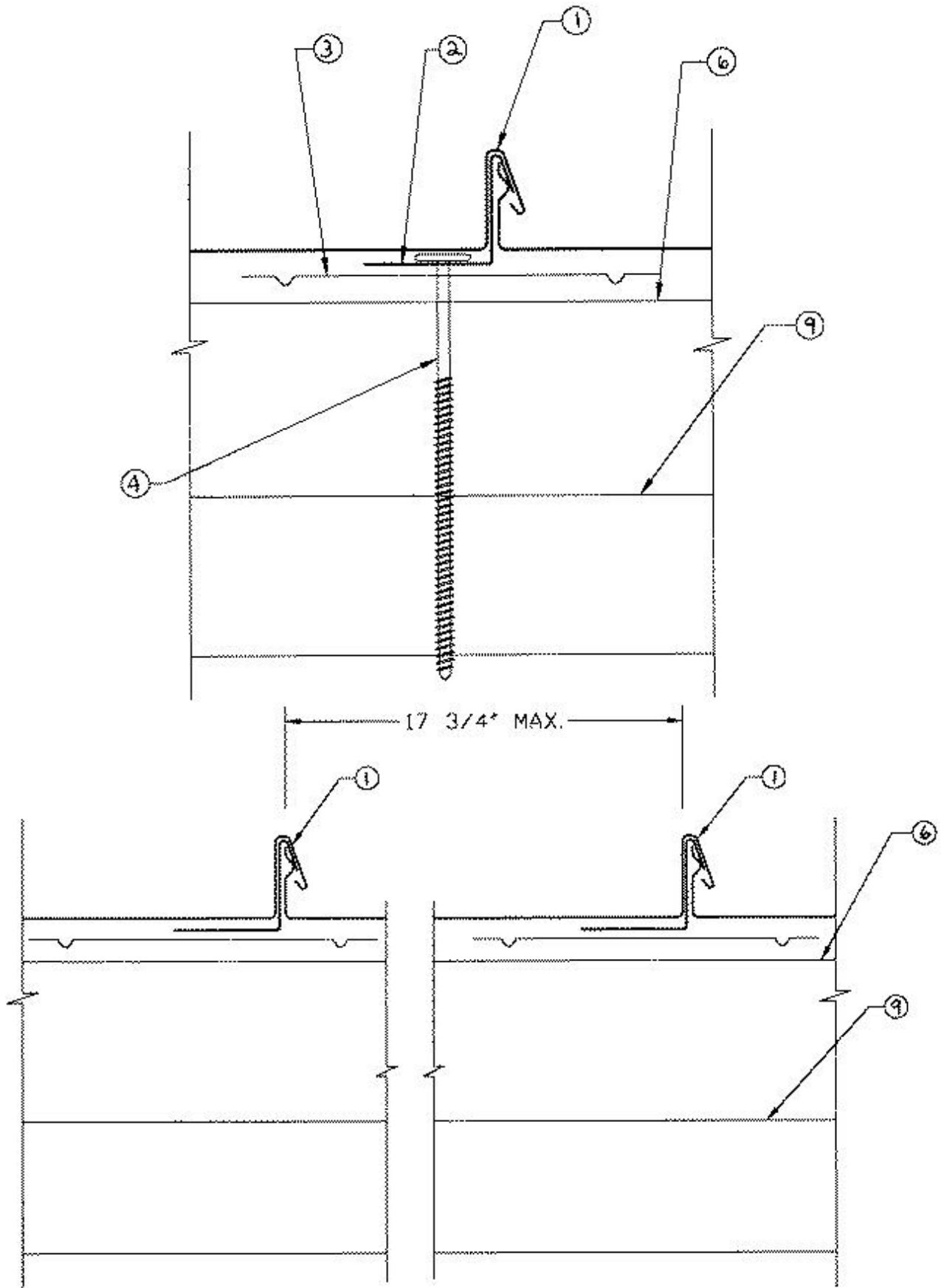
[See General Information for Roof Deck Constructions](#)

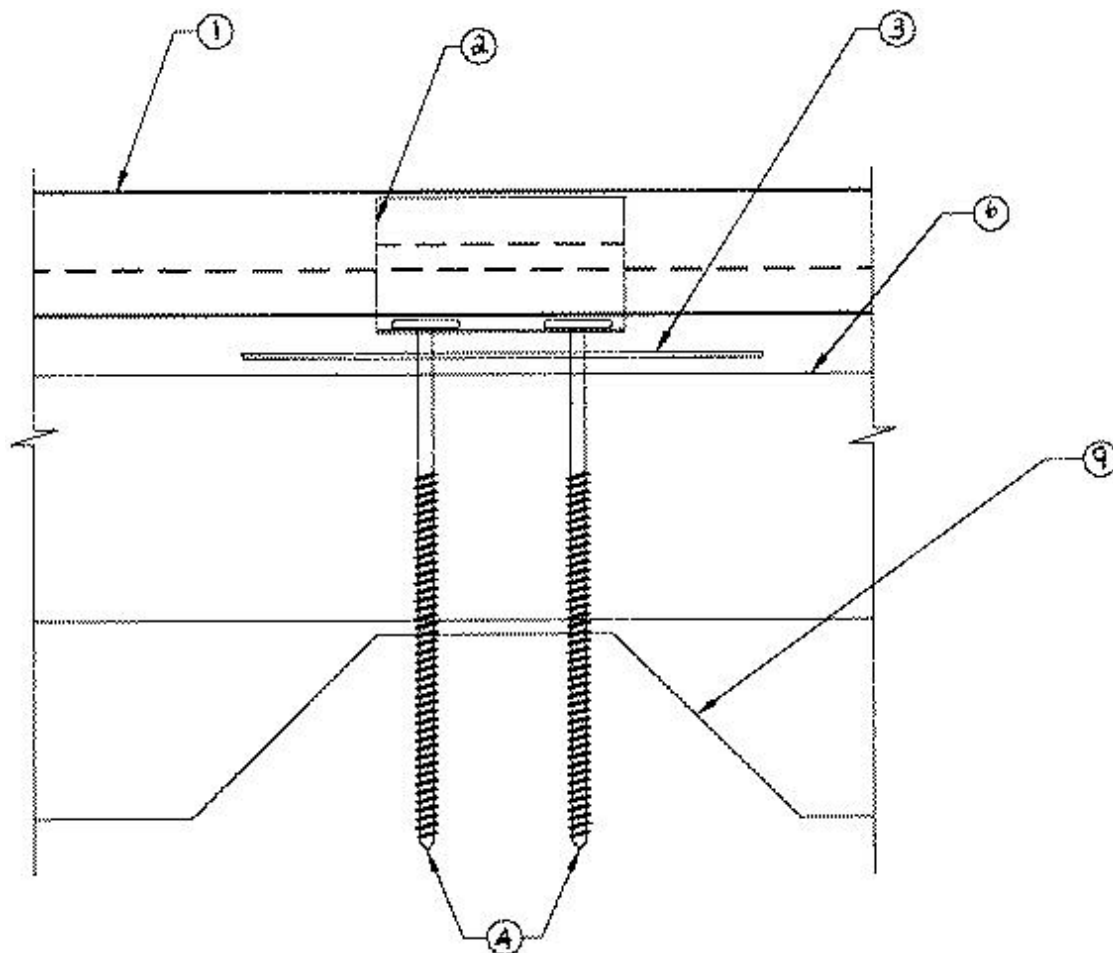
Construction No. 573

November 09, 2012

Uplift — Class 90

Fire Not Investigated





1. **Metal Roof Deck Panels*** — No. 26 MSG min coated steel. Max panel width 17-3/4 in. Rib height nominal 1 in. Panels continuous over two or more spans. A bead of sealant may be used at panel endlaps.

MCELROY METAL MILL INC ([View Classification](#)) — "ABC Instaloc"

2. **Roof Deck Fasteners: (Panel Clips)** — One piece clip, 24 MSG minimum coated steel, 2 in. long by 1-3/32 in. high. Base of one piece clip 1.275 in. deep with two 0.188 in. dia thru-holes for fasteners (screws). Panel clips located at sides of panels spaced 24 in. OC maximum.

MCELROY METAL MILL INC ([View Classification](#)) — "ABC Instaloc Clip"

3. **Bearing Plate** — Min 24 MSG, 4-3/16 in. wide by 6 in. long bearing plate with two slots to accommodate fasteners (Item 4) and one rib along 2 sides to add stiffness (psi min yield strength). Used with foamed plastic (rigid insulation) (Item 6).

4. **Fasteners - (Screws)** — Screws used to attach panel clips to metal deck to #14x7 in. self drilling pancake head screw with a #3 phillips sized head. Screws to penetrate metal deck minimum 1 in. Two screws per clip. Fasteners used to attach metal deck to purlins (Item 10) to be #14x1 in. long with hex head. Spacing on screws to 12 in. OC into purlins.

5. **Felt Paper** — (Optional) (not shown) One ply, 30# per 100 sq ft.

6. **Foamed Plastic - (Rigid Insulation)** — Min thickness 1 in. Max thickness 6 in., density to a minimum of 2 pcf.

7. **Wall Board** — (Optional, not shown) Max 5/8 in. thick, 4 by 8 ft gypsum board located over liner panel. Total thickness of foamed plastic (rigid insulation) (Item 6) and wall board not to exceed 6 in.

8. **Oriented Strand Board (OSB)** — (Optional) (not shown) OSB located over foamed plastic, (Item 6). Max thickness 7/16 in. Total thickness of foamed plastic (rigid insulation) (Item 6) and OSB not to exceed 6 in. Bearing plate (Item 3) not required when OSB is used.

9. **Liner Panel (Metal Deck)** — Min 22 MSG metal deck by 1.5 in. deep, various configurations.

10. **Purlin (not shown)** — 8 in. deep cee purlin, min. 16 MSG (50,000 psi min yield strength). Spaced maximum 5 ft, 1/16 in. OC.

Refer to General Information, Roof Deck Construction, (Roofing Materials and System Directory) for Items not evaluated.

*Bearing the UL Classification Mark

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[Page Top](#)

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