



TGKX.65 Roof Deck Constructions

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- 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.
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Roof Deck Constructions

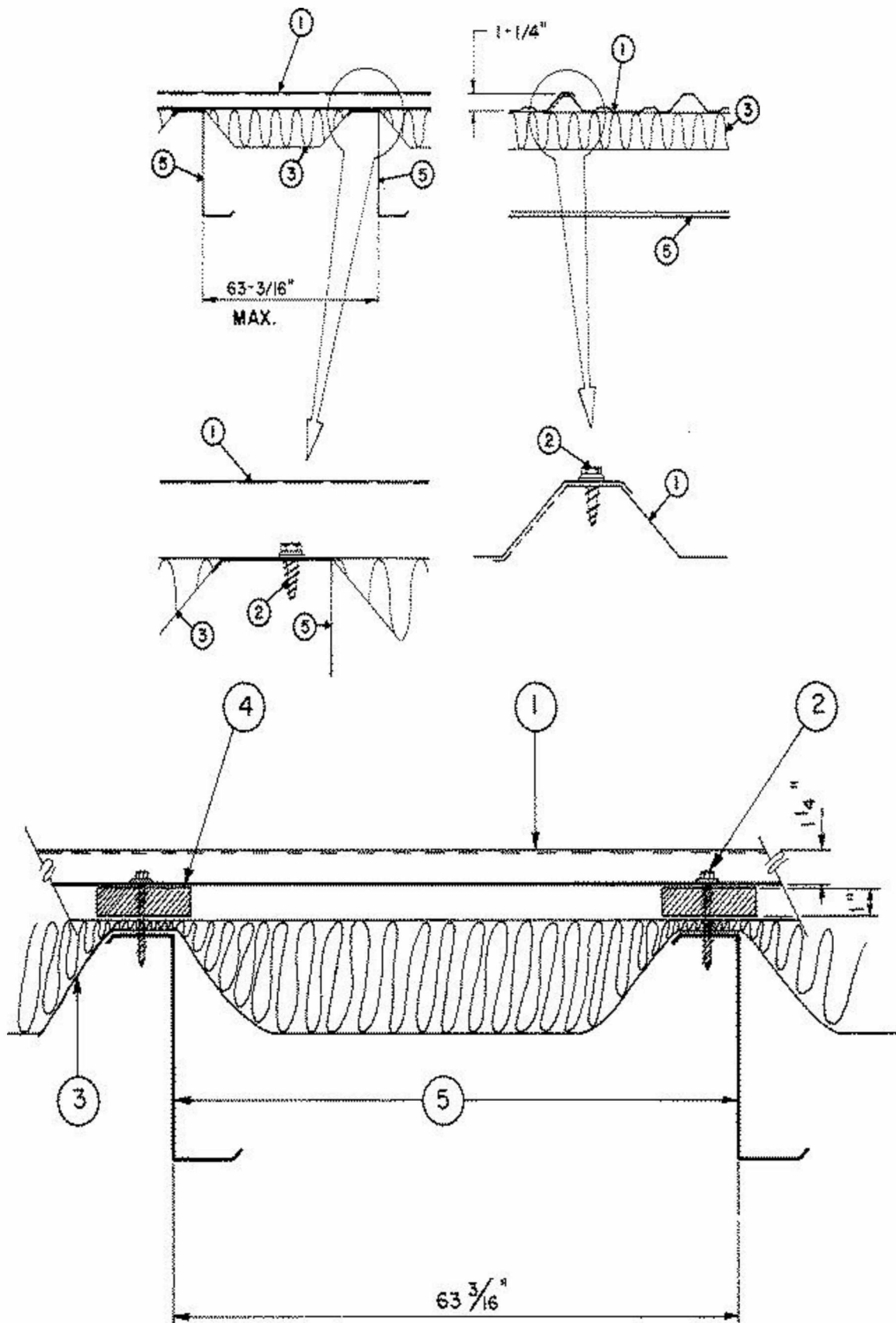
[See General Information for Roof Deck Constructions](#)

Construction No. 65

September 07, 1996

Uplift — Class 90

Fire Not Investigated



1. **Metal Roof-Deck Panels*** — No. 26 MSG min gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 6 in. with lap beginning 1 in. from purlin web and extending across purlin flange. A line of tape sealant may be used at panel end and side laps.

DEAN STEEL BUILDINGS INC ([View Classification](#)) — "Type RIB-12"

2. Fasteners — For panel to purlin connections when using compressible blanket insulation (Item 3) without thermal spacer block (Item 4) to be No. 12-14 self-drilling, self-tapping, hex-head, plated steel screws with a 1/2 in. OD formed steel washer and fitted with a neoprene sealing washer.

Length: 1 in. for insulation thickness equal to or less than 3 in.

1-1/4 in. for insulation thickness greater than 3 in.

Fasteners for use with thermal spacer block to be No. 12-14 by 2 in. stand-off, self-drilling, self-tapping, hex-head, plated steel screws with a separate 5/8 in. OD plated steel washer and a neoprene sealing washer.

Fasteners for panel to open web steel joist connections; when using compressible blanket insulation (Item 3) to be No. 12-24 by 7/8 in. long self-drilling, self-tapping, hex-head, plated steel screws with a separate 5/8 in. OD formed steel washer and a neoprene sealing washer. When using thermal spacer blocks (Item 4) to be same type 2 in. long.

For panel to panel connections to be No. 12-14 by 1 in. long.

Spacing: For panel to purlin fasteners to be 12 in. O.C. with fasteners located 2-1/4 in. from the center line on one side of each rib. Spacing at end lap to be in a 4-1/2-7 1/2-4 1/2-7 1/2 in. pattern with fasteners located 2-1/4 in. from the center line on both sides of each major rib. For panel to panel connections to be 20 in O.C.

As an alternate fastener: No 14 self-tapping hex-head, plated steel screws with a 5/8 in. O.D. plated steel washer and a separate neoprene sealing washer may be used.

Length: 3/4 in. for insulation thickness equal to or less than 3 in.

1-1/4 in. for insulation thickness greater than 3 in.

For panel to panel connections to be 3/4 in.

Pilot holes: For panel to purlin fasteners to be 3/16 in. diam. For panel to panel fasteners to be 7/32 in. diam. through top sheet and 1/8 in. through bottom sheet.

3. Insulation — (Optional) — Any compressible blanket insulation 4 in. max thickness before compression.

4. Thermal Block — Polystyrene — 1 in. thick, 4 in. wide, 48 in. long.

5. Purlins — No. 16 MSG min gauge steel (55,000 psi min yield strength) or H-Series open web steel joints.

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

*Bearing the UL Classification Mark

Last Updated on 1996-09-07

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