



Construction No. 204 TGKX.204 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

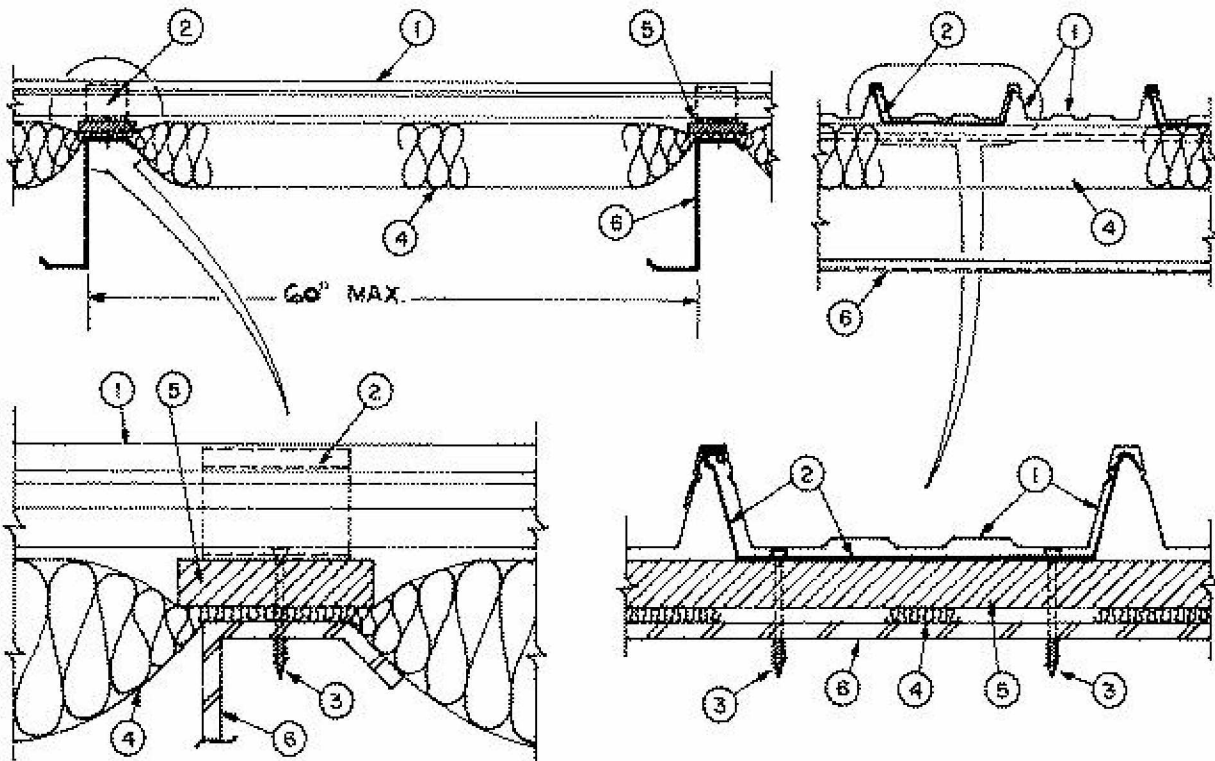
[See General Information for Roof Deck Constructions](#)

Construction No. 204

December 16, 2011

Uplift-Class 90 or 60 (See Item No. 5)

Fire Not Investigated



1. **Metal Roof Deck Panels*** — No. 24 MSG min gauge coated steel. Panels continuous over two or more spans end laps to occur over purlins with panels over lapped 12 in. An end lap plate (Item No. 8) to be used over end lap; located between ribs in both flat areas, 1/2 in. from exposed edge. A bead of sealant may be used at side joints and end laps.

MCELROY METAL MILL INC ([View Classification](#)) — "Mirage II"

2. **Roof Deck Fasteners*** — (Panel clips) — One piece assembly, 2 1/2 in. wide 8 in. long at base, 1-1/2 in. high. Fabricated from No. 18 MSG min thickness coated steel.

MCELROY METAL MILL INC ([View Classification](#)) — "Mirage II Clip"

3. **Fasteners** — (Screws) — For panel clip to purlin attachment, to be No. 12-14 self-drilling, self-tapping, wafer-head with a square or phillips head drive. Length to be 1-1/2 in. long when thermal spacers are not used and 2 in. when the thermal spacers are used. Fasteners to be inserted into outer most guide holes.

4. **Insulation** — (Optional) — Any compressible blanket type, 4 in. max thickness before compression.

5. **Thermal Block** — (Optional) — Not used in Class 90 assemblies — Used over purlins, 1 in. thick, 3 in. wide with a min density of 1.6 lb per cu ft.

6. **Purlins** — No 16 MSG min thickness (50,000 psi min yield strength). Purlin spacing 5 ft, 0 in. OC.

7. **Lateral Bracing** — Not shown — As required.

8. **End Lap Plate** — (Not shown) — Located over panels at end laps, 3 in. wide, 8 in. long fabricated from No. 18 MSG coated steel. (min yield strength 33,000 psi.)

Refer to General Information, Roof Deck Constructions (Building Materials Directory) for items not evaluated.

*Bearing the UL Classification Mark

Last Updated on 2011-12-16

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