



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 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

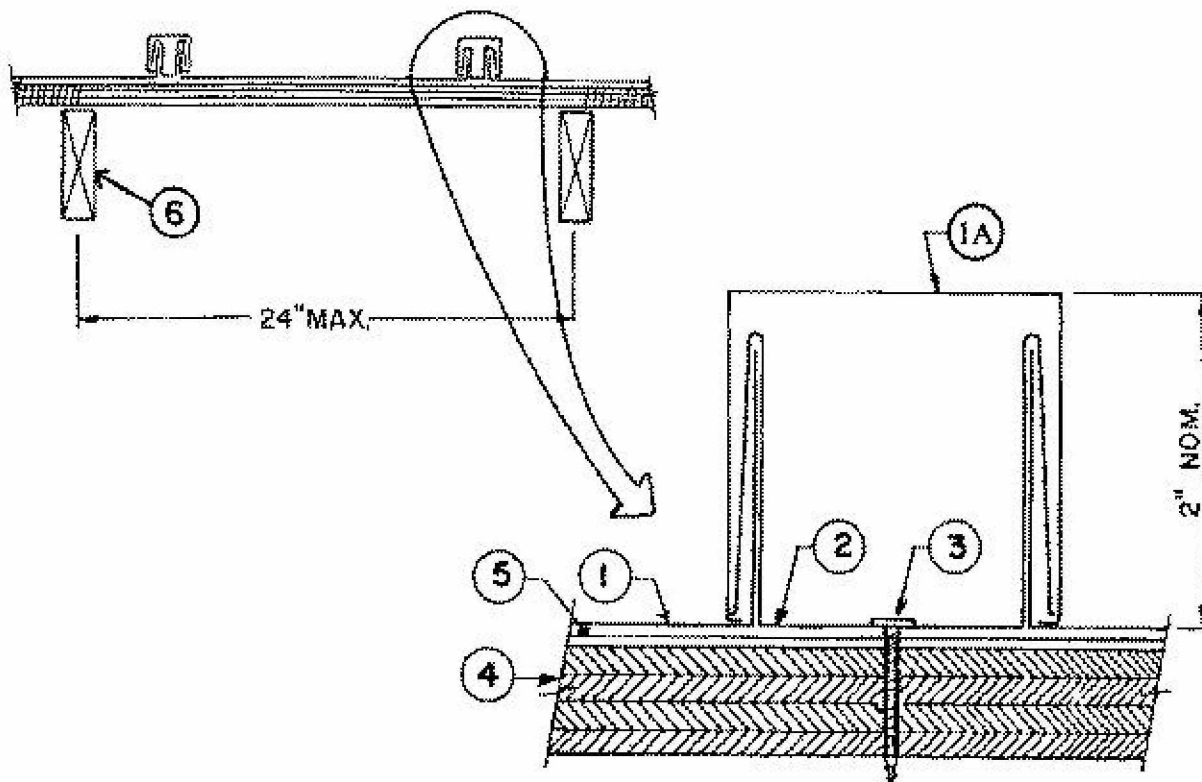
See General Information for Roof Deck Constructions

Construction No. 281

June 29, 2011

Uplift — Class 90

Fire — Not Investigated



1. **Metal Roof Deck Panels*** — No. 24 MSG min coated steel. Max panel width 21 in. Panels continuous over two or more spans. End laps to occur adjacent to supports with panels overlapped 4 in. A line of sealant may be used at panel ends and side laps.

ATAS INTERNATIONAL INC ([View Classification](#)) — "KB Panel"

CENTRIA ([View Classification](#)) — "ADP 100B"

BEACON SALES ACQUISITION INC, DBA

COASTAL METAL SERVICE ([View Classification](#)) — "HT-150"

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

MBCI ([View Classification](#)) — "Craftsman Series LB"

NCI BUILDING SYSTEMS L P ([View Classification](#)) — "Craftsman Series LB"

1A. Metal Roof Deck Panels* (Battens) — Battens covering "KB" Panel ribs and Clips to be 1-11/16 in. wide at top segment, 2 in. high, formed from same type and thickness material as that used to fabricate "KB" Panels.

ATAS INTERNATIONAL INC ([View Classification](#)) — "KB Batten"

CENTRIA ([View Classification](#)) — "ADP 100B Batten".

1B. Metal Roof Deck Panels* — (Battens) — Battens covering panel ribs and clips to be 2 in. wide and 2 in. high, formed from the same type and thickness material as that used to fabricate metal panels (Item 1).

CENTRIA ([View Classification](#)) — "ADP 100B Batten"

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

MBCI ([View Classification](#)) — "LB Batten"

NCI BUILDING SYSTEMS L P ([View Classification](#)) — "LB Batten"

2. Roof Deck Fasteners* — (Panel Clips) — One piece clip, 1-3/4 in. high, 1-5/16 in. wide by 2 in. long. Clips are spaced max 24 in. OC, located at the panel sides with guide holes in bottom to accommodate screw fasteners (Item 3).

ATAS INTERNATIONAL INC ([View Classification](#)) — "KB Clip"

CENTRIA ([View Classification](#)) — "ADP 100B Clip"

BEACON SALES ACQUISITION INC, DBA

COASTAL METAL SERVICE ([View Classification](#)) — "HT-150"

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

NCI BUILDING SYSTEMS L P ([View Classification](#)) — "LB Clip"

3. Fasteners — (Screws) — Screws used to attach the panel clips to plywood or OSB to be No. 10 by 1 in. long Pancake head wood screw with a No. 2 Phillips head size. One screw per clip.

Screws used to attach plywood or OSB substructure (Item 4) to wood trusses or joists (Item 6) to be No. 8 by 2 in. Bugle head screws. As an optional fastener, 2-1/2 in. long 8d common deformed shank nails may be used.

When light gauge structural steel joists are used, screws to be No. 12 by 1-5/8 in. long with a Phillips head.

Spacing of screws to be 6 in. OC at plywood or OSB ends and 12 in. OC at interior joists.

4. **Substructure (Plywood or OSB)** — Plywood decking to be a nom 5/8 in. thick, exposure sheathing span C-D, 40/20 plywood or oriented strand board (OSB), nom 9/16 in. thick. (All butt joints to be sealed against leakage by using tape and/or caulk.)

5. **Waterproof Membrane** — (Optional) — (Not Shown) — Used to protect plywood or OSB (Item 4). Installed under panels (Items 1).

6. **Joists** — Joists, spaced at 2 ft, 0 in. OC max, may be one of the following:

A. Nom 2 by 6 in. wood joists No. 2 or better.

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

C. Light gauge structural steel framing with the member against the plywood or OSB to be a min No. 22 MSG coated steel.

7. **Insulation** — (Optional)(Not Shown) — Any compressible blanket insulation 3 in. max thickness before compression. Insulation to be sandwiched between substructure (Item 4) and joists (Item 6).

Refer to General Information, Roof Deck Construction, (Roofing Materials and Systems Directory) for Items Not Evaluated.

*Bearing the UL Classification Mark

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[Page Top](#)

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