



## MAGNA-LOC

Construction No. 576

July 02, 2003

Uplift - Class 90

Fire Not Investigated

- 1. Metal Roof Deck Panels\*** - No. 24 MSG min coated steel. Max panel width 16 in., rib height 1 in. Panels continuous over two or more spans. Endlaps or overlap 6 inches. Panels may be mechanically curved at a radius between 20 ft and 109 ft incl. A bead of sealant may be used at panel ends and side joints. Side laps to be tightened and crimped with an electric crimping machine to approx 90 degree angle. Crimping process to include the upper portion of panel clips (Item 2).

METAL SALES MFG CORP (View Classification) - "Magna-Loc 18", "Magna-Loc 16" or "Magna-Loc 180" (180° Seam)

- 2. Roof Deck Fasteners - (Panel Clips)** - Either of the following: Fixed or Utility Clip - One piece assembly fabricated from 22 min gauge steel, 3 in. wide. Floating Clip - Two piece assembly with a base fabricated from 22 MSG min gauge steel, 1-5/8" in. wide and a topp fabricated from 22 MSG min gauge steel, 4-1/4 in. wide. Clip spacing 60 in. OC max.

Fixed Clip - (Not Shown) - One piece assembly fabricated from No. 22 MSG min thick steel, 3-1/2 in. wide.

BUILDING RESEARCH SYSTEMS INC (View Classification) - "Challenger 100 Fixed Clip"

Floating Clip - Two piece assembly with a base fabricated from No. 16 MSG min thick steel, 2 in. wide and a top fabricated from No. 22 MSG min thick steel, 4-5/16 in. wide.

BUILDING RESEARCH SYSTEMS INC (View Classification) - "Challenger 100 Floating Clip"

- 3. Fasteners (Screws)** - Screws used to attach the panel clips to Substructure (Item 4) to be No. 10 by 1 in. long Pancake head woodscrews with a No. 2 Phillips head or 10 x 1 in. 1/4 in. Hex Head Woodgrip. Two Screws per clip. Screws used at endlap (high system only) to be one of the following: 14 x 1-1/4 in. Hex Head Washer. self-drilling, 14 x 1 in. Type AB Phillips Stainless Steel, self-tapping. Five screws per panel in a 1,3,4,4,3 - in. pattern. Screws used to attach Substructure (Item 4) to wood trusses or joists (Item 7) 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 or Oriented Strand Board (OSB) to be nom 5/8 in. thick, exposure sheathing span, C-D, 40/20 plywood. (All butt joints to be sealed against leakage by using tape and/or caulking). In lieu of plywood, 1 in. tongue and groove decking may be used.

- 4A. Endlap Back-Up Plate - (Optional) (Not Shown) - (High System Only)** - Used at panel endlaps, 16 MSG min coated steel, 15-1/2 in. wide with two 1 in. wide by 3/4 in. long tabs for sliding over end of panels.

- 5. Moisture Barrier - (Optional)** - Any suitable membrane to protect Substructure (Item 4).

- 6. Thermal Spacer - (Optional) (Not Shown)** - Polystyrene - 3/8 in., 5/8 in. or 1 in. nom thickness, 3 in. wide by 15-7/8 in. long.

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7. **Joists** - Joists spaced at 2ft, 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 22 MSG coated steel.

Refer to general information, Roof Deck Construction, (Roofing Materials and System Directory) for items not evaluated.

\*Bearing the UL Classification Mark



Underwriters Laboratories Inc. ®

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