


**MAGNA-LOC**

Construction No. 672  
May 31, 2012  
Uplift - Class 90  
Fire Not Investigated

- 1. Metal Roof Deck Panel\*** - Minimum 0.032 in. thick Aluminum, Maximum width 18 in. and rib height 2 in.

**METAL SALES MFG CORP** ([View Classification](#)) - "Magna-Loc 16", "Magna-Loc 18" and "Magna-Loc 180"

- 2. Roof Deck Fasteners** - (Panel Clips) The panel clip is a two-piece assembly spaced 30 in. OC. The base is 2-1/4 in. long, 1-1/2 in. wide and 1/2 in. high. The tab is 4 1/4 in. wide and 2 1/4 in. high. The base is fabricated from No. 16 MSG thick coated steel and tab is fabricated from No. 22 MSG thick-coated steel.

**BUILDING RESEARCH SYSTEMS INC** ([View Classification](#)) - "Challenger 100 Floating Clip"

- 3. Fasteners (Screws)** - The plywood deck is secured to the supports with 2-1/2 in. drywall screws spaced 6 in. on center at the perimeter and 12 in. on center in the field.

The Panel Clip is fastened to the deck with two No. 12-11 x 1-1/2 in. Low Profile Wood Screws.

Panel edges are attached to the plywood with 2-1/2 in. long drywall screws, spaced 6 in. on center and 1 in. from the panel edge.

- 4. Supports** - Wood No. 2 or better, 2 in. x 10 in. x 179 in., spaced 24 in. on center.

- 5. Plywood Decking** - 19/32 in. B-C grade APA Rated. All joints are sealed with a 1 in. wide urethane Caulk (Bostik Chem) cured for 16 hours. The entire deck is covered with an asphalt-saturated felt per the manufacturers installation instructions.

- 5A. Oriented Strand Board (OSB)** - (Not Shown) - As an alternate, nom. 5/8 in. thick (19/32 in. actual) APA (DOC PS-2) rated OSB may be substituted for plywood decking (Item 5). Installation procedures are to be the same as for plywood.

Refer to general information, Roof Deck Construction, for items not evaluated.

\*Bearing the UL Classification Mark