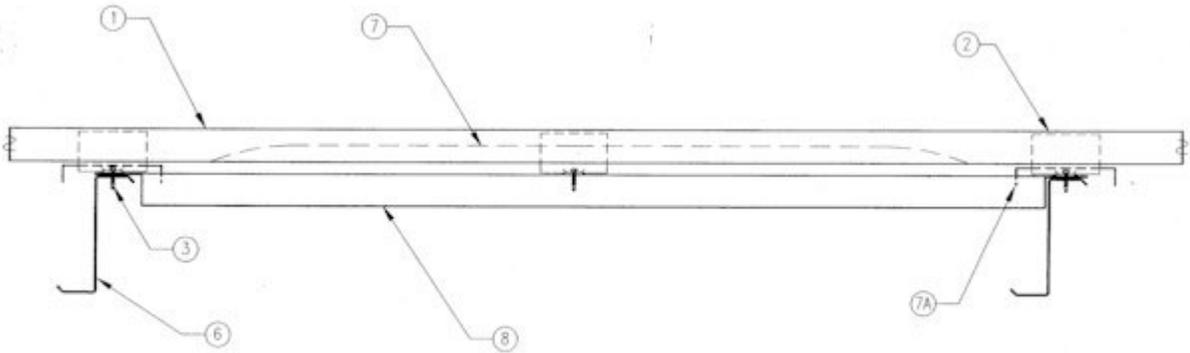


**Construction No. 449**

**Uplift - Class 90  
Fire Not Investigated**



**1. Metal Roof Deck Panels\*** - No. 24 MSG minimum gauge coated steel. Maximum panel width 16 in. and rib height 2 in. Panels continuous over two or more spans. Endlap to occur adjacent to purlin with panels overlapped 6 inches and to include back-up plate (Item 2A). 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 an angle of 45° minimum. Crimping process to include the upper portion of panel clips (Item 2).

- A&S BUILDING SYSTEMS, INC.-"BattenLok" or "SuperLok"
- MBCI-"BattenLok" or "SuperLok"
- MESCO METAL BUILDINGS-"BattenLok" or "SuperLok"
- NCI BUILDING SYSTEMS LP--"BattenLok" or "SuperLok"

**2. Roof Deck Fasteners\*** - (Panel Clips) - Either of the following: Fixed Clip - one piece assembly fabricated from No. 22 MSG minimum gauge steel, 3 in. wide. Floating Clip - two piece assembly with a base fabricated from No. 16 MSG minimum gauge steel, 1-5/8 in. wide, and a top fabricated from No. 22 MSG minimum gauge steel, 4-1/4 in. wide. Clips are spaced 5 ft. O.C. max along length of panels except 2'-6" O.C. for 2 panel ribs on each side of building unit (Item 7) located at the panel sides with guide holes in bottom to accommodate two screw fasteners (Item 3). Sealant may be used in the top of the clips.

- NCI BUILDING SYSTEMS LP-"BattenLok High or Low, Fixed or Floating Clip"; "BattenLok Utility Clip" - "SuperLok High or Low, Fixed or Floating Clip"; "SuperLok Utility Clip"

**2A. Endlap Back-Up Plate** - (Not Shown) No. 16 MSG minimum gauge coated steel, width of back-up plate to correspond to width of panel. With two 1 in. wide by 3/4 in. long tabs for sliding over end of panels.

**3. Panel Fasteners - (Screws)** Screws used to attach the panel clips to purlins (Item 6) to be No. 12 by 1 in. long minimum, Hex Washer Head, self-driller. Two screws per clip.

Screws used at endlap to be one of the following: 14x1 in. Type AB, Hex Washer Head self-tapping; 14x1-1/4 in. Hex Washer Head, self-drilling; 14x1 in. Type AB Phillips Stainless Steel, self-tapping. Five screws per panel in a 1,3,4,4,3 inch pattern for 16 in. wide panel and four screws per panel in a 1-1/2,3,3,3 inch pattern for a 12 in. wide panel.

**4. Thermal Spacer** - (Optional) (Not Shown) Polystyrene, 3 in. wide by 15-7/8 in. long, maximum thickness 1 in.

**5. Insulation** - (Optional) (Not Shown) Any compressible blanket insulation 6 in. maximum thickness before compression, or 5 in. maximum thickness when located between thermal spacer (Item 4) and purlin (Item 6).

**6. Purlins** - No. 14 MSG minimum gauge steel, minimum yield strength 40 KSI. Maximum spacing 60-1/16 in. O.C.

**7. Building Units\*** - (Optional) - Translucent, plastic, insulated dome installed in classified metal roof deck panel ("BattenLok").

- NCI BUILDING SYSTEMS LP-"BL Insulated Dome LTP"

**7A. Stiffener Plate** - Factory installed on building units (Item 7). No. 16 MSG minimum gauge coated steel. 5-3/4 in. wide with two 1 in. vertical legs. Stiffener plate to be located over purlin at each end of building unit.

**8. Angle** - 2x2 min. 1/8 in. MSG coated steel (36,000 psi min. yield strength) for use with building units (Item 7). Place one angle at first two panel ribs on each side of building unit (Item 7) for mid clip attachment.

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

\*Bearing the UL Classification Marking