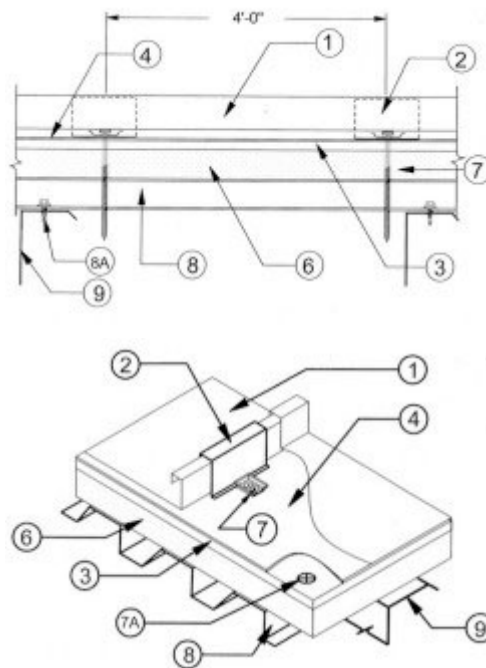


**Construction No. 487**

**Uplift - Class 90  
 Fire Not Investigated**



**1. Metal Roof Deck Panels\*** No. 24 MSG min coated steel, 16 in. max width. Panels continuous over two or more spans. Endlaps to occur adjacent to purlin with panels overlapped 6 in. and to include endlap back-up plate (Item 2A). A line of sealant may be used at panel ends and sidelaps. Sidelap to be tightened and crimped with an electric seaming machine to an angle of 45 degree min. Crimping process to include the upper portion of the panel clip (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\*** To be either of the following: Fixed Clip - one piece assembly fabricated from No. 22 MSG coated steel, 3 in wide. Floating Clips - Two piece assembly with a base fabricated from No. 16 MSG min coated steel, 1-5/8 in. wide, and a top fabricated from No. 22 MSG min coated steel, 4-1/2 in. wide. Utility Clip - one piece assembly fabricated from No. 22 MSG coated steel, 3 in. wide. Clip spacing to be 4 ft, 0 in. O.C. maximum.

- 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 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.

**3. Wallboard Gypsum\*(Mineral Board)** Min thickness 1/2 in. Opposite side edges have a tongue and groove configuration. Butt (end) joints to be staggered and occur over steel deck crests. Wallboard installed perpendicular to steel deck corrugations.

- LOADMASTER SYSTEMS INC--"Duraflex Mineral Board"

**4. Vapor Barrier** Single ply used between the wallboard (Item 3) and the metal roof deck panels (Item 1).

**5. Joint Tape** (Not Shown) - 2-1/2 in. wide tape supplied by manufacturer to be used at all wallboard joints.

**6. Foamed Plastic (Rigid Insulation)** (Optional) - Expanded polystyrene or polyisocyanurate supplied in 4 by 8 ft sheets, min thickness 13/16 in. min density 1.0 pcf. All end joints to be staggered with respect to adjacent rows. All joints to be offset from joints in mineral board (Item 3).

**7. Fasteners Screws** used to fasten panel clips (Item 2) to steel deck (Item 8) to be No. 14 Truss head with No. 3 Phillips drive. Length to be min 1/2 in. longer than thickness of wallboard, rigid insulation and metal deck. Two screws per clip. Fasteners used at endlaps to be one of the following: 14x1 in. Type AB self-tapper; 14x1-1/4 in. Hex washer head self-driller; 14x1 Type AB Phillips stainless steel self-tapper.

**7A. Fasteners** For attaching in wallboard to steel deck to be min 0.140 in diam threaded shank Phillips, bugle or trumpet head, self-drilling, self-tapping, corrosion resistance coated steel screws supplied by manufacturer. Screws are installed into top corrugations of steel deck through nom 3 by 3 in. corrosion resistant steel roof deck plates, spaced in a pattern as determined by the pitch of the steel deck with a min of 21 fasteners per 4 by 8 ft sheet (Item 3).

**8. Steel Deck** Fabricated to various profiles, min yield strength 33,000 psi. Steel deck profile, thickness, support spacing and method of positioning (end and side laps) and fastening deck to supports to be per deck manufacturers requirements for uplift loading.

**8A. Deck Fasteners** Steel deck panels to be fastened to structural supports and at laps using puddle welds with weld washers or screw fasteners per deck manufactures requirements for uplift loading.

**9. Purlins** 16 MSG min coated steel, min yield strength 50,000 psi or Type H open web joists.

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

\*Bearing the UL Classification Marking