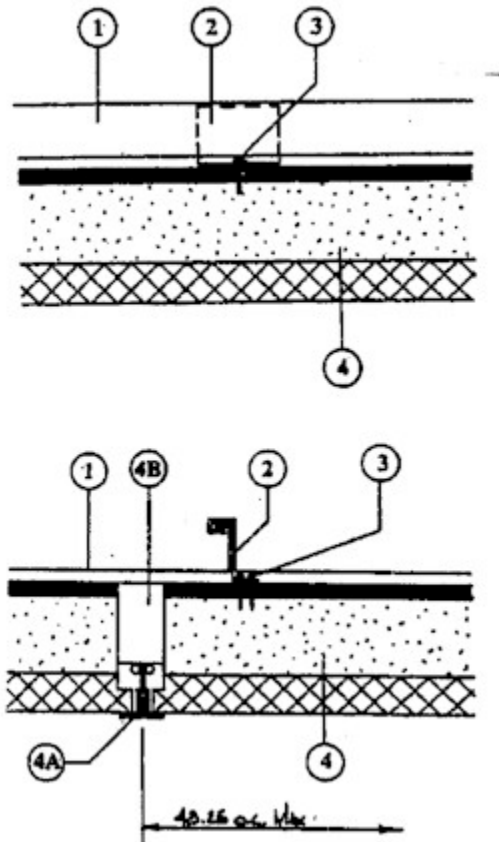


Construction No. 451

Uplift - Class 90
 Fire Not Investigated



1. Metal Roof Deck Panels* 24 MSG minimum coated steel. Maximum panel width 16 in., and rib height 2 in. Panels continuous over two or more spans. Endlaps to occur with panels overlapped 6 in. 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 a minimum 45 degree angle. 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 clip assembly fabricated from No. 22 MSG minimum steel, 3 in. wide. Floating Clip - two piece

assembly with a base fabricated from No. 16 MSG minimum steel, 1 in. wide, and a top fabricated from No. 22 MSG steel, 4 in. wide. Clip spacing 24 in. OC 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"

3. Fasteners (Screws) Screws used to attach the panel clips (Item 2) to substructure (Item 4) to be 1/4 in. -14x1-1/4 in. Type A, hex washer head, without washer. Two screws per clip.

Screws used at endlap (high system only) to be one of the following: 14x1 in. Type AB, Hex Washer Head self-tapping; 14x1 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 in. pattern.

Fasteners used to attach Tectum deck (Item 4) to structural support (Item 7) to be minimum 6 in. long, No. 14 screw with 5/8 in. diameter head. Fasteners are spaced a maximum of 12 in. OC at each joist along butt end. Pre-drilling with a 3/16 in. bit for steel up to 1/8 in. thick or with a 7/32 in. bit for steel greater than 1/8 in. thick when required.

4. Structural Cement-Fiber Unit* (Substructure) Consists of a minimum 5 in. thick composite structural cement-fiber units with foamed plastic core of a minimum 0.95 PCF density expanded polystyrene and 7/16 in OSB structural use panels on one face. All transverse butt joints are to occur over structural support. Unit will be designated as plank (tongue and groove) when used without truss tees (Item 4A). Unit will be designated as tile (rabbetted) when used with truss tees.

- TECTUM INC--"Type E"

4A. Truss Tee (Optional) Minimum size to be 5-6-17-2. Maximum spacing to be 48-1/4 in. OC. Tees to be welded to structural support (Item 7) with a 3/4 in. fillet weld on both sides of tee.

4B. Tectum Grout (Optional) Used with truss tee (Item 4A) and tile (rabbetted) type substructure (Item 4). Grout to fill void between substructure tiles around and above truss tee.

4C. Structural Cement-Fiber Unit* (Substructure) (Not Shown) (May be used in lieu of Item 4) Consists of a minimum 5 in. thick composite structural cement-fiber units with foamed plastic core of a minimum 1.5 PCF density expanded polystyrene 7/16 in OSB structural use panels on one face. All transverse butt joints are to occur over structural support. Unit will be designated as plank (tongue and groove) when used without truss tees (Item 4A). Unit will be designated as tile (rabbetted) when used with truss tees.

- TECTUM INC--"Type III"

5. Endlap Back-Up Plate - (High system only) (Not Shown) Used at panel endlaps, 16 MSG minimum coated steel, width of back-up plate to correspond to width of panel. Provided with two 1 in. wide by 1 in. long tabs for sliding over end of panel.

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

7. Structural Support Size and spacing to depend on design considerations. Refer to General Information, Roof Deck Construction, (Roofing Materials & Systems Directory) for Items Not Evaluated.

*Bearing the UL Classification Marking