



TECHNICAL BULLETIN

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UL Construction #453

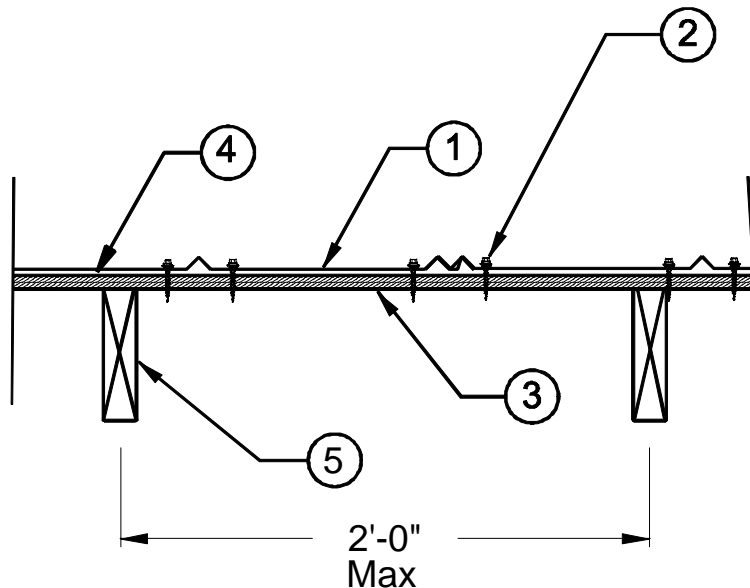
5V-Crimp

UL580 Class 90

1. **Metal Roof Deck Panels*** - No. 26 MSG minimum coated steel. Maximum panel width 24 in. Rib height maximum 1/2 in. Panels continuous over two or more spans. A bead of sealant may be used at panel sidelaps.
McElroy Metal Mill, Inc. "5V-Crimp"
2. **Fasteners** – (Screws) - For panel attachment to wood deck (Item 3) fasteners to be No. 14-10 x 1-1/2 in. Type A, hex head with separate 5/8 in. OD steel washer and a bonded neoprene washer or No. 9-15 x 1-1/2 in. longlife or Woodmac with sealing washer. Fastener spacing is as follows: a line of fasteners to be installed beginning from the center of the double V at the sidelap in 2-9-2-9 in. pattern for a total of four fasteners across the width of the panel. This fastener spacing to be 3 feet on center along the length of the panel. For attachment of plywood deck (Item 3) to joists (Item 5), fasteners to be min No. 6 by 1-7/8 in. bugle head screw or annular ring-shank nails. Spacing to be 6 in. OC at plywood edges and 12 in. OC at intermediate supports. When light gauge structural steel joists are used, fasteners to be No. 12 by 1-5/8 in. long with a Phillips head.
3. **Substructure** – (Plywood) – Plywood decking to be a 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 caulk or with one-part urethane sealant.
4. **Moisture Barrier** – (Optional) – Any suitable membrane to protect substructure (Item 3).
5. **Joists** – Joists spaced at 2 ft., 0 in. OC 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 top cord of a wood truss, No. 2 or better.
 - C. Light gauge structural steel framing with the member against the plywood to be a min. No. 22 MSG coated steel.

Refer to General Information, Roof Deck Construction, (Roofing Materials and Systems Directory) for items not evaluated.

*Bearing the UL Classification Marking



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