



**1 Metal Roof Deck Panels \* / "Tite-Loc Plus"**

No. 24 MSG min coated steel, 16 in. max, 12 in. min. width, 2 in. high at the ribs. Panels continuous over two or more spans. Endlaps to overlap 6 inches. 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 180 degree angle. Crimping process to include the upper portion of panel clips (Item 2).

**2 Roof Deck Fasteners\* (Panel Clips)**

Any of the following. Clip spacing to be 60 in. OC max. Sealant may be used at the top of the clips:

**Tite-Loc Plus Utility Clip:** One piece assembly; 3 in. wide, approximately 2 in. high with two guide holes in base. Fabricated from No. 22 MSG coated steel.

**Tite-Loc Plus Low Fixed Clip:** One piece assembly; 3 in. wide, approximately 2-3/8 in. or 3 in. high, with three guide holes in base. Fabricated from No. 22 MSG coated steel.

**Tite-Loc Plus Low Floating Clip:** Two piece assembly; base approximately 2 in. wide, 1-11/16 in. long formed to engage upper tab. Fabricated from No. 16 MSG coated steel. Tab approximately 4-5/16 in. wide; 2-3/8 in. or 2-7/8 in. high, formed to engage base. Fabricated from No. 22 MSG coated steel. Base to have two guide holes.

**Tite-Loc Plus AR Floating Clip:** Two piece assembly; base approximately 2 1/2 in. wide, 1-7/8 in. long formed to engage upper tab. Fabricated from No. 18 MSG coated steel. Tab approximately 4-5/16 in. wide; 2-3/8 in. high, formed to engage base. Fabricated from No. 22 MSG coated steel. Base to have two guide holes.

**3 Fasteners (Screws)**

Screws used to attach the panel clips to plywood (Item 4) to be No. 10 by 1 in. long Pancake head wood screws with a No. 2 Phillips head or 10 x 1 in., 1/4 in. Hex Head Woodgrip. Two screws per clip. Screws used at endlap (high system only) to be one of the following: 14x1-1/4 in. Hex Washer Head, self-drilling; 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 in. pattern. Screws used to attach plywood (Item 4) to wood trusses or joists (Item 7) to be No. 8 by 2 in. Bugle head screws. As an optional fastener, 2-1/2 in. long 8d common deformed shank nails may be used. When light gauge structural steel joists are used, screws to be No. 12 by 1-5/8 in. long with a Phillips head. Spacing of screws to be 6 in. O.C. at plywood or OSB ends and 12 in. O.C. at interior joists.

**4 Substructure (Plywood or OSB)**

Plywood decking or oriented strand board (OSB) 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 caulking). In lieu of plywood, 1 in. tongue and groove decking may be used.

**4A Endlap Back-Up Plate (Optional - High-System only) / (Not Shown)**

Used at panel endlaps, 16 MSG min coated steel, width of backup plate to correspond to width of panel. Two, 1 in. wide by 3/4 in. long tabs for sliding over end of panel.

**5 Moisture Barrier (Optional) / (Not Shown)**

Any suitable membrane to protect plywood (Item 4).

**6 Thermal Spacer (Optional)**

Polystyrene: 3/8 in., 5/8 in. or 1 in. nom thickness, 3 in. wide by 15-7/8 in. long.

**7 Joists**

Joists, spaced at 2 ft, 0 in. O.C. max, 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 chord of a wood truss, No. 2 or better.
- C Light gauge structural steel framing with the member against the plywood or OSB to be a min No.22 MSG coated steel.

Refer to General Information, Roof Deck Construction for items not evaluated.

\*Bearing the UL Classification Marking