

1 Metal Roof Deck Panels * / “Redi-Roof Standing Seam”

No. 24 MSG min thick coated steel; panel width max 18 in., min 12 in. Panel may be with or without offsets at ribs. Rib height with offsets 1-9/16 in. Rib height without offsets 1-3/8 in. Panels continuous over three or more clips with no end laps. A bead of sealant may be used at panel side joints.

2 Roof Deck Fasteners* (Panel Clips) / “Redi-Roof Standing Seam Clip”

One piece assembly, 2-1/4 in. wide, 1-3/8 in. high. No. 24 MSG min thick coated steel. Clips spaced 18 in. OC, fastened to nailable insulation (Item 5A).

3A Fasteners (Screws)

Fasteners used to attach panel clip (Item 2) to nailable insulation (Item 5A) to be No. 8-8 by 1-1/4 in. long bugle-head coated steel wood screws with a No. 2 Phillips drive. Min two fasteners per clip to be used.

4 Underlayment

Underlayment used over plywood deck to be 30 lb organic felt. Sides overlapped min 8 in., end laps per manufacturer’s instructions. Felt nailed to plywood deck with staples at a random spacing.

5A Nailable Insulation

Consisting of 1 in. min to 3-1/2 in. max thickness. Classified Polyisocyanurate foamed plastic with a factory laminated 7/16 in. thick APA rated O.S.B density of foamed plastic to be 2 pcf.

6A Supports (Purlins) / (Not Shown)

Purlins used for liner panel support to be cold formed steel sections. As alternatives, structural steel components (hold rolled beams, channels, open web joists, etc.) may be used. Min gauge and yield to depend on design considerations for uplift loading. Max spacing to depend on design considerations for uplift loading.

7A Fasteners (Screws)

Fasteners used to attach nailable insulation to steel deck (Item 8) to be No. 11-13, No. 3 Phillips drive, truss head, painted steel screws. Length to depend on overall thickness of deck and to penetrate steel deck 1/2 in. min. A 2 in. diameter formed pressure plate fabricated from No. 22 MSG coated steel to be used with each screw. Fasteners located in three rows along the 8 ft length of the nailable insulation beginning 6 in. from the 8 ft edges with a row down the center and spaced 21 in. beginning 6 in. from the 4 ft edges OC. A total of 15 fasteners used for each 4 by 8 ft board.

8 Liner Panel (Steel Deck)

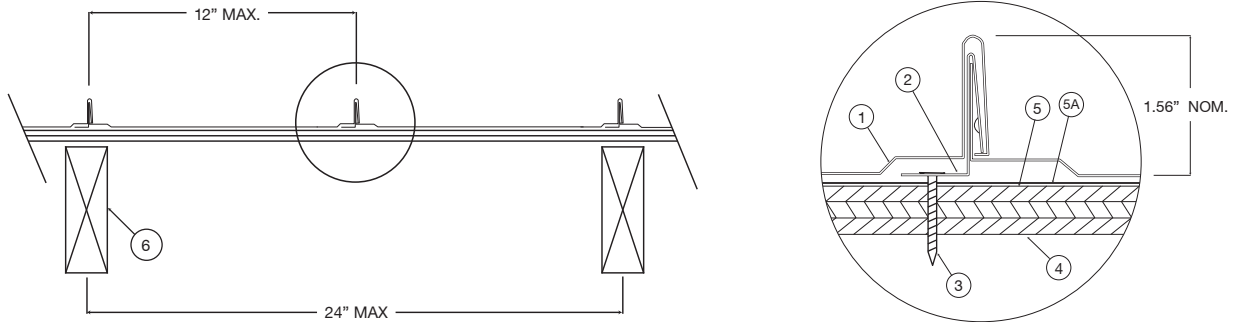
No. 22 MSG min thickness coated steel. Min depth 1-1/2 in. max pitch 6 in. fabricated to various profiles. Min yield strength 33,000 psi. Fastened to supports (Item 6A) with fastener type and spacing per liner panel manufacturers instructions for uplift loading.

9 Gypsum Board (Optional) / (Not Shown)

Max thickness 5/8 in. supplied in 4 by 8 ft sheets. Butt joints located over crests of steel deck. Fastened to deck with same fasteners used for nailable insulation.

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

*Bearing the UL Classification Marking



1 Metal Roof Deck Panels * / “Redi-Roof Standing Seam”

Max 12 in. wide, 1-9/16 in. high, fabricated from 16 oz, half-hard copper. Panels continuous over three or more clips with no end laps. A bead of sealant may be used at panel side joints.

2 Roof Deck Fasteners* (Panel Clips) / “Redi-Roof Standing Seam Clip”

One piece assembly, 2-1/4 in. wide, 1-3/8 in. high. No. 24 MSG min thick coated stainless steel. Clips spaced max 24 in. OC, fastened to plywood deck (Item 5).

3 Fasteners (Screws)

Fasteners used to attach the panel clip (Item 2) to the plywood (Item 5) to be No. 10-16 by 1 in. long pancake head coated stainless steel screws. Two screws per clip are required.

4 Plywood Decking

Plywood decking to be graded per PS83 specification, 19/32 in. thick, Grade B-C, exposure 1, APA rated 42/20 square edged. All plywood joints to be sealed against leakage with caulk or a one part urethane sealant.

5 Underlayment*

Any UL Classified base or ply sheet, mechanically fastened with nails or staples.

5A Underlayment

Rosin paper, any thickness, mechanically fastened with nails or staples.

6 Supports

Spaced max of 24 in. OC. Any of the following types may be used to support the plywood decking:

- A Nom 2 by 6 in. (min) No. 2 grade A.F.P.A. S-P-F Hemlock Fir, Douglas Fir or Southern Pine.
- B Wood trusses with a 2 by 4 in. (min) upper chord of the same Grade as Item a.
- C No. 22 MSG min cold formed coated steel (min yield to be 33,000 psi).

7 Plywood Fasteners (Not Shown)

Fasteners used to attach the plywood deck to the supports to be as follows:

- A For plywood-to-wood supports No. 8-18 by 1-7/8 in. long bugle-head steel screws with a No. 2 Phillips drive, a “Hi-Low” thread pattern and an “S-Point”.
- B As an alternate to Item a, 8d by 2-1/2 in. long deformed shank common nails may be used.
- C For plywood-to-steel supports for a steel thickness less than No. 20 MSG, No. 7-19 by 1-1/4 in. long bugle-head steel screws with a No. 2 Phillips head drive “Hi-Low” thread and an “S-Point”. For a steel thickness greater than No. 20 MSG to No. 16 MSG, No. 6-20 by 1-1/4 in. long bugle-head steel screws with a No. 2 Phillips drive and an S12 (TEKS/3) ® point.

Spacing: Fastener spacing for all fastener types to be 6 in. OC at the plywood butt edges and 12 in. OC in the interior.

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