Technical Bulletin

UL Construction #310

Medallion I

UL580 Class 90 Wind Uplift

1. Metal Roof Deck Panels* - No. 24 MSG min. coated steel. Max panel width 16-1/2 in. and rib height 3/4 in. End laps to occur adjacent to supports with panels overlapped 4 in. min.

2. Roof Deck Fasteners* - One piece clip, 1/2 " high, 1-1/2" wide by 2’ long, min. 30 MSG coated steel or min. 26 gauge stainless steel. When coated metal roof deck panels used (Item 1) clips are spaced 24” O.C. Guide holes in bottom of clip.

3. Fasteners - Screws used to attach plywood or OSB substructure (Item 4) to metal deck to be #14 type with Phillips head. Fastener length to be min. of 1/2” longer than total thickness of the insulation and metal deck. One screw per clip. An optional #10 by 1” self-drilling may be used to attach clip to the bearing plate when installer chooses to install rigid board insulation and use bearing plate to hold it in place until clips and panels are installed.

4. Plywood or OSB - (Optional) - Min APA Rated plywood, exposure sheathing span C-D 40/20, nominal 1/2 in. thick or oriented strand board (OSB), nominal 7/16 in. thick, 4 x 8 ft. Sheets to be installed on top of Rigid Insulation (Item 5) in lieu of bearing plates (Item 4A). To be used with Rigid Insulation (Item 5), max thickness 4 in.

5. Rigid Insulation - (Optional) - Foamed plastic, max thickness 4 in. when plywood or OSB (Item 4) is used and 6 in. when bearing plates (Item 4A) are used. Compressive strength to be 2 PCF.

6. Metal Deck - 22 MSG min thickness coated steel. Min depth 1-1/2 in. with deck to be welded to purlin in every other low flute, except for end laps which are welded in every low flute.

7. Purlin - Min No. 14 MSG steel (55,000 psi min yield strength).

8. Supports - (Purlins) - Purlins used for liner panel support (Item 6) to be cold formed steel sections or structural steel components (hot rolled beams, channels, open web joists, etc.) may be used. Support spacing, min gauge and yield strength to depend on design conditions for uplift loading.

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

*Bearing the UL Classification Mark