UL Construction #268B
238T
UL 580 Class 90 Wind Uplift

1. **Metal Roof Deck Panels** — Min No. 24 MSG gauge steel or stainless steel or 0.030 in. thick aluminum, nom 18 in. wide, 2-3/8 in. high standing seams. Heavier gauges or narrower panels acceptable. Panels continuous over three or more clips with no end laps.

2A. **Panel Clips** — (Not Shown) - No. 16 MSG min gauge coated steel or stainless steel, 6 in. long by 2.718 in. high. Base to have two or four .281 in. dia. guide holes to accommodate screw fasteners (Item 4).

3. **Cap** — Used at seam, nom 1 in. wide, 1/2 in. deep fabricated from min No. 24 MSG steel, stainless steel or .030 in. thick aluminum. Cap continuously seamed over panel seams with a special motorized seaming tool. Seaming process to include panel clips (Item 2).

4. **Fasteners** — (Screws) — Fasteners used to attach panel clips to plywood deck to be No. 14 by 1 in. long type A point, plated or stainless steel screws without washers or No. 12-11 Low profile, No.3 Square drive wood screw. Two fasteners per clip to be used.

5. **Underlayment** — (Optional) — (Not Shown) Underlayment used over plywood deck to be Type 15 or 30 organic felt. Sides overlapped min 2 in., end laps per manufacturer's instructions. Felt nailed to plywood deck with 1-1/4 in. long steel cap nails, located per manufacturer's instructions. Nail spacing to be max 12 in. OC at the side lap and max 24 in. OC in interior rows.

6. **Plywood Decking** — Plywood decking to be graded per PS83 specifications, 19/32 in. thick, exposure 1, APA Rated Sheathing (42/20) square edged. Butt ends not blocked. All butt and side joints to be sealed against leakage by using tape and/or caulk. (Note exception under Item 5, Alternate).

7. **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., No. 2 grade or better S-P-F, Hemlock Fir, Douglas Fir or Southern Yellow Pine or equivalent.
   b. Wood trusses with a nom 2 by 4 in. upper chord of the same grade as item a.
   c. No. 22 MSG min cold formed coated steel (min yield to be 3,000 psi).

8. **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 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 drive, a "Hi-Low" thread pattern and an "S-Point".

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

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

*Bearing the UL Classification Mark

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**MANUFACTURING LOCATIONS**

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