1. **Metal Roof Deck Panels** - No. 26 MSG min gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 6 in. with laps beginning even with purlin web and extending across purlin flange. A bead of sealant may be used at panel side and end laps.

   McElroy Metal Mill, Inc. “R-Panel”

2. **Building Units** - Translucent, reinforced plastic panels. Thickness 1/16 in. formed to the same configuration as the metal roof deck panels. Panels continuous over two spans.

   McElroy Metal Mill, Inc. “R-Skylight”

3. **Panel Fasteners** – For steel panel to purlin and for translucent panel to purlin connections to be No. 12-14 by 1 in. self-drilling, self-tapping, hex head, plated steel screws with a separate or integral 9/16 in. to 5/8 in. O.D. formed steel or combination zinc and steel washer and a neoprene/EPDM sealing washer. Fasteners for panel connection to be same type and length. Fastener for panel to purlin connection to be 1-1/4 in. long when insulation (Item 6) is greater than 4-1/2 in.

   **Spacing**
   - For steel panel to purlin fasteners, spacing to be 12 in. on center beginning 2-1/2 in. from the center line on one side of each major rib.
   - Spacing at end lap to be in a 5-7-5-7 in. pattern beginning 2 1/2 in. from the center line on both sides of each major rib.
   - For translucent panel – to – purlin fasteners, spacing to be in a 5, 3 1/2, 3 1/2, 5 in. pattern beginning 2 1/2 in. from the center line on both sides of each major rib.
   - For steel panel – to – panel fasteners, spacing to be 20 in. on center.
   - For translucent panel – to – steel panel fasteners, spacing to be 12 in. on center driven into rib reinforcement (Item 4).

4. **Translucent Panel Rib Reinforcement** – For side support – hat – shaped section fabricated from No. 26 MSG steel to the configuration of the steel panel major rib.

5. **Translucent Panel Purlin Reinforcement** – For translucent panel reinforcement over purlins, 3 in. wide by No. 26 MSG thick steel strips fabricated in the shape of the metal panel.

6. **Insulation** – (Optional) – Any compressible blanket insulation 6 in. max thickness before compression.

7. **Purlins** – No. 16 MSG min gauge steel (50,000 psi min yield strength).

8. **Lateral Bracing** – (Not shown) – As required.

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

*Bearing the UL Classification Mark*