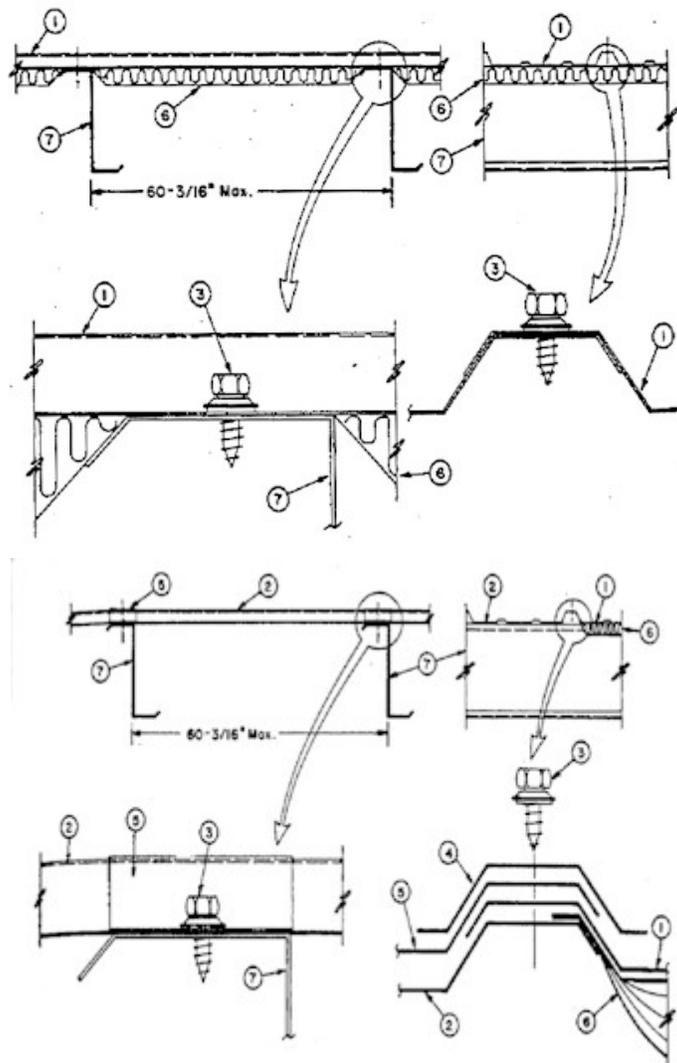


**Construction No. 167**

**Uplift - Class 90**

**Fire Not Investigated**



**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.

- A&S BUILDING SYSTEMS, INC.- "R" or "PBR" Panel
- ACI BUILDING SYSTEMS INC - "R" or "PBR Panel"
- ALLIANCE STEEL CO - "Type R"
- AMERICAN STEEL BUILDING CO INC - "Amerib 90" Panel
- BUILDING CONCEPTS LTD - "B" Panel
- CORRUGATED INDUSTRIES INC - "R" Panel
- FLEXOSPAN STEEL BUILDINGS INC - "R" Panel
- HIRSCHFELD METAL BUILDINGS - "R"
- KENROD STEEL CO INC - "R" Panel
- KIRBY BUILDING SYSTEMS INC - "Kirby-Rib"
- MCELROY METAL MILL INC - "R" Panel
- MESCO METAL BUILDINGS - "R" or "PBR" Panel
- MBCI- "R" or "PBR" Panel
- MIDLAND METALS, INC. — "PBR"
- NCI BUILDING SYSTEMS LP - "R" or "PBR" Panel
- NUCOR BUILDING SYSTEMS, DIV OF - "Classic" Panel
- SOUTHERN STRUCTURES INC - "SR" Panel
- STANDARD STRUCTURES INC - "PBR Panel" or "R Panel"
- UNITED STRUCTURES OF AMERICA INC - "U.S.A. R"
- WHIRLWIND STEEL BUILDINGS INC - "Superspan"

**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.

- ACI BUILDING SYSTEMS INC - "R Skylight"
- ALLIANCE STEEL CO - "Type Skylight"
- AMERICAN STEEL BUILDING CO INC - "Amerib 90 Skylight" Panel
- BUILDING CONCEPTS LTD - "B Panel Skylight"
- CORRUGATED INDUSTRIES INC - "R Skylight"
- KENROD STEEL CO INC - "R Panel Skylight"
- KIRBY BUILDING SYSTEMS INC - "Kirby-Rib Skylite Panels"
- MCELROY METAL MILL INC - "R Skylight"
- NCI BUILDING SYSTEMS LP - "R" Light Transmitting Panel
- NUCOR BUILDING SYSTEMS, DIV OF - "Classic"
- OMEGA INDUSTRIES - "R Skylight Panel"
- SOUTHERN STRUCTURES INC - "SR" Skylight
- SUNTUF INC - "Sunsky" or "Dynaglas" or "Suntuf" or "Suntop"
- UNITED STRUCTURES OF AMERICA INC - "U.S.A. R Skylight"
- WHIRLWIND STEEL BUILDINGS INC - "Superspan 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 5/8 in. O.D. formed steel washer and a neoprene sealing washer. Fasteners for panel to panel connections 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 Constructions, (Roofing Materials and Systems Directory) for items not evaluated.

\*Bearing the UL Classification Marking