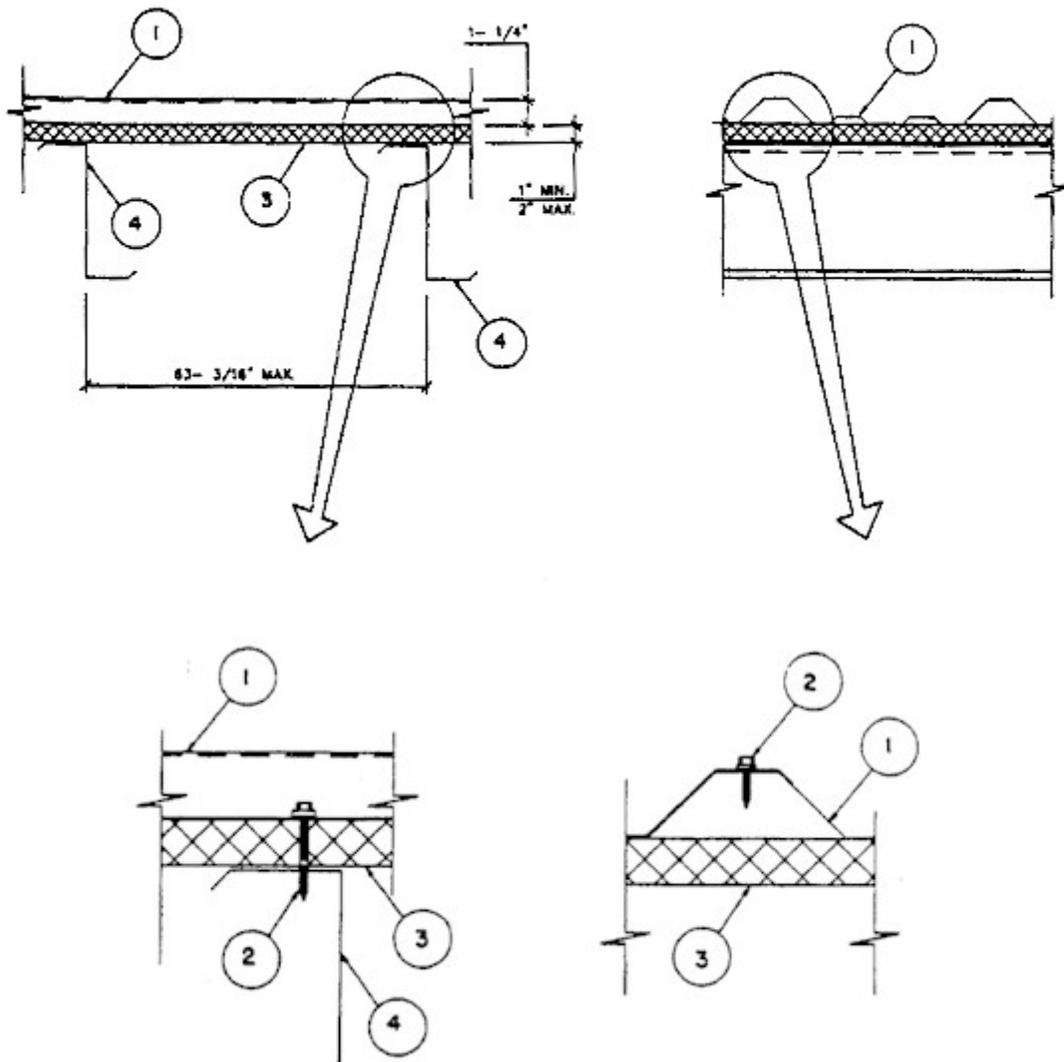


**Construction No. 104**

**Uplift - Class 90**

**Fire Not Investigated**



**1. Metal Roof Deck Panels\*** No. 26 MSG min coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 6 in. with lap beginning even with

purlin web and continuing across purlin upper flange. A line of sealant may be used at panel end and side laps.

- NCI BUILDING SYSTEMS L.P. "R" or "PBR"
- MBCI "R" or "PBR"
- A&S BUILDING SYSTEMS, INC. "R" or "PBR"
- MESCO METAL BUILDINGS "R" or "PBR"
- MIDLAND METALS, INC. — "PBR"

**2. Panel Fasteners** For panel to purlin connections when using 16 MSG steel purlins to be No. 12-14 self-drilling, self-tapping, hex-head plated steel standoff screws with a separate 5/8 in. OD formed steel washer and a separate neoprene sealing washer. Min fastener length shall be 3/4 in. longer than the nom thickness of the insulation so as to insure full thread engagement.

Spacing to be 12 in. O.C. located between major ribs. Spacing at end laps to be in a 4-1/2, 7-1/2, 4-1/2, 7-1/2 in. pattern beginning 2-1/2 in. from the center line on both sides of each major ribs.

As an alternate fastener when using No. 16 MSG steel purlins, No. 14 self-tapping hex-head plated steel screws with a separate 5/8 in. OD formed steel washer and a neoprene sealing washer may be used. Min length shall be 3/4 in. longer than the nom thickness of the rigid insulation so as to insure full thread engagement. Pilot holes, 3/16 in. diam, to be used with alternate fastener only.

Fasteners for use with Type H open web steel joists to be No. 12-24 by 7/8 in. long self-drilling, self-tapping hex-head plated steel screws with a separate 5/8 in. OD formed steel washer and a separate neoprene sealing washer.

For Panel-to-Panel Connections - To be No. 14 by 7/8 in. lap tek self-drilling, self-tapping hex-head, plated steel screws with a separate 1/2 in. OD formed steel washer and a neoprene sealing washer. Spacing to be min 20 in. O.C.

As an alternate fastener: No. 14 by 3/4 in. self-tapping, hex-head plated steel screws with a separate formed steel washer and a separate neoprene sealing washer may be used. For alternate fasteners only, a 7/32 in. diam pilot hole shall be used in the top sheet and a 1/8 in. diam pilot hole shall be used in the bottom sheet.

**3. Insulation\*** Rigid type. Supplied in 4 ft wide sheets, min density 2 pcf. Min thickness 1 in. Max thickness 2-1/4 in. Butt joints to occur over purlins. Top surface of all joints to be continuously sealed with a 2 in. wide vapor barrier tape, pressure sensitive on one side.

**4. Purlins** No. 16 MSG min gauge steel (min yield strength 50,000 psi) or H Series open web steel joists.

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

\*Bearing the UL Classification Marking