

**EVALUATION REPORT OF
BUTLER MANUFACTURING COMPANY
'MR-24 LITE*PANL'**

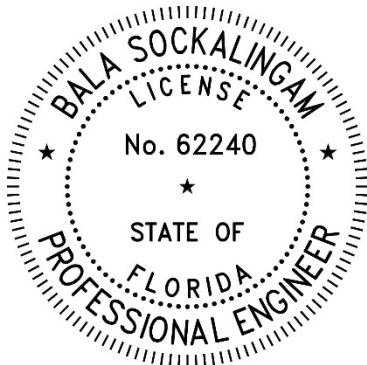
**FLORIDA BUILDING CODE 9TH EDITION (2026)
FLORIDA PRODUCT APPROVAL
FL 12759.2-R7
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
Butler Manufacturing Company
A Division of BlueScope Buildings North America, Inc.
1540 Genessee Street
Kansas City, MO 64102
Telephone: (816) 968-3000**

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**This report consists of
Evaluation Report (3 Pages including cover)
UL Constructions (16 Pages)
Installation Details (15 Pages)**

**Report No. C3050-9
Date: 9.25.2026**



This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

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Manufacturer: Butler Manufacturing Company

Product Name: MR-24 Lite*Panl

Product Description: Translucent, glass fiber reinforced plastic (FRP) panels. Nominal thickness 1/16 in. formed to the same configuration as MR-24 or CMR-24 metal panels.

Materials: SunStrong High Strength (8 Oz 200STW): FRP panel consists of a polymer resin with a combination of bidirectional woven roving and chopped strand glass fiber reinforcement. Self-ignition temperature greater than 650°F (343°C) in accordance with ASTM D1929. Maximum average smoke density rating less than 450 where tested in the thickness intended for use in accordance with ASTM E84. Plastic material Class CC2 with burning rate of less than 2¹/₂ inches per minute in accordance with ASTM D635.

ISO-Tuff High Strength (8 Oz 200IFW): FRP panel consists of a brominated isophthalic resin with a combination of bidirectional woven roving and chopped strand glass fiber reinforcement. Self-ignition temperature greater than 650°F (343°C) in accordance with ASTM D1929. Maximum average smoke density rating less than 450 where tested in the thickness intended for use in accordance with ASTM E84. Plastic material Class CC1 with burning extent of less than 1 inch in accordance with ASTM D635.

Support Description: Min. 16 ga., 55 ksi steel section

Slope: 1/4:12 or greater in accordance with FBC 2026 Section 1507.4.2.

Design Uplift Pressure: 52.5 psf at maximum support spacing of 60-13/16" o.c.
(Factor of Safety = 2)

Panel Attachment: Panels will be fastened in accordance with UL Construction No. 62, 62A, 178 and manufacturer installation drawings. Clips and fasteners are corrosion resistant as per FBC 2026 Section 1506.7 and 1507.4.4, respectively. For installation in areas within 3000 ft. of a saltwater coastline, clips and fasteners are corrosion resistant as per FBC 2026 Section 1711.

Panels will be installed in accordance with FBC 2026 Section 2609 for CC1 class of plastics for ISO-Tuff panels & CC2 class of plastics for SunStrong panels. Panels shall not be installed in groups H, I-2, I-3.

Test Standards:	Roof assembly tested in accordance with UL580-06 'Uplift Resistance of Roof Assemblies' and FM 4470 (2016) Section 4.6 'Resistance to Foot Traffic'.
Test Standard Equivalency:	ASTM E84-07 procedures utilized in Architectural Testing Inc.'s Reports B8609.03-121-24 & B8609.04-121-18 comply with test procedures prescribed in ASTM E84-24. ASTM D635-03 procedures utilized in Architectural Testing Inc.'s Reports B8609.02-106-18 & B8609.05-106-18 comply with test procedures prescribed in ASTM D635-18. FM 4470 (2016) procedures utilized in ENCON Technology Inc.'s Report C2383-1 comply with test procedures prescribed in FM 4470 (2022) Section 4.6 'Resistance to Foot Traffic'.
Code Compliance:	The product described herein has demonstrated compliance with FBC 2026 Section 1504.3.2, 1504.7, 1507.4 and 2606.4.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2026 Section 1609 or ASCE 7-22 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design uplift pressure for reduced clip spacing may be computed using rational analysis prepared by a Florida Professional Engineer. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2026 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.
Supporting Documents:	UL 580 Roof Deck Construction No. 62, 62A, 178. FM 4470 Test Report ENCON Technology Inc. C2383-1, Reporting Date 9/21/2020 ASTM E84 Test Reports Architectural Testing Inc. B8609.03-121-24, Reporting Date 11/9/2012 B8609.04-121-18, Reporting Date 11/9/2012 ASTM D635 & D1929 Test Reports Architectural Testing Inc. B8609.02-106-18, Reporting Date 11/7/2012 B8609.05-106-18, Reporting Date 11/7/2012

TGKX.62 – Roof Deck Constructions

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
 - Authorities Having Jurisdiction should be consulted before construction.
 - Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
 - When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
 - Only products which bear UL's Mark are considered Certified.
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Roof Deck Constructions

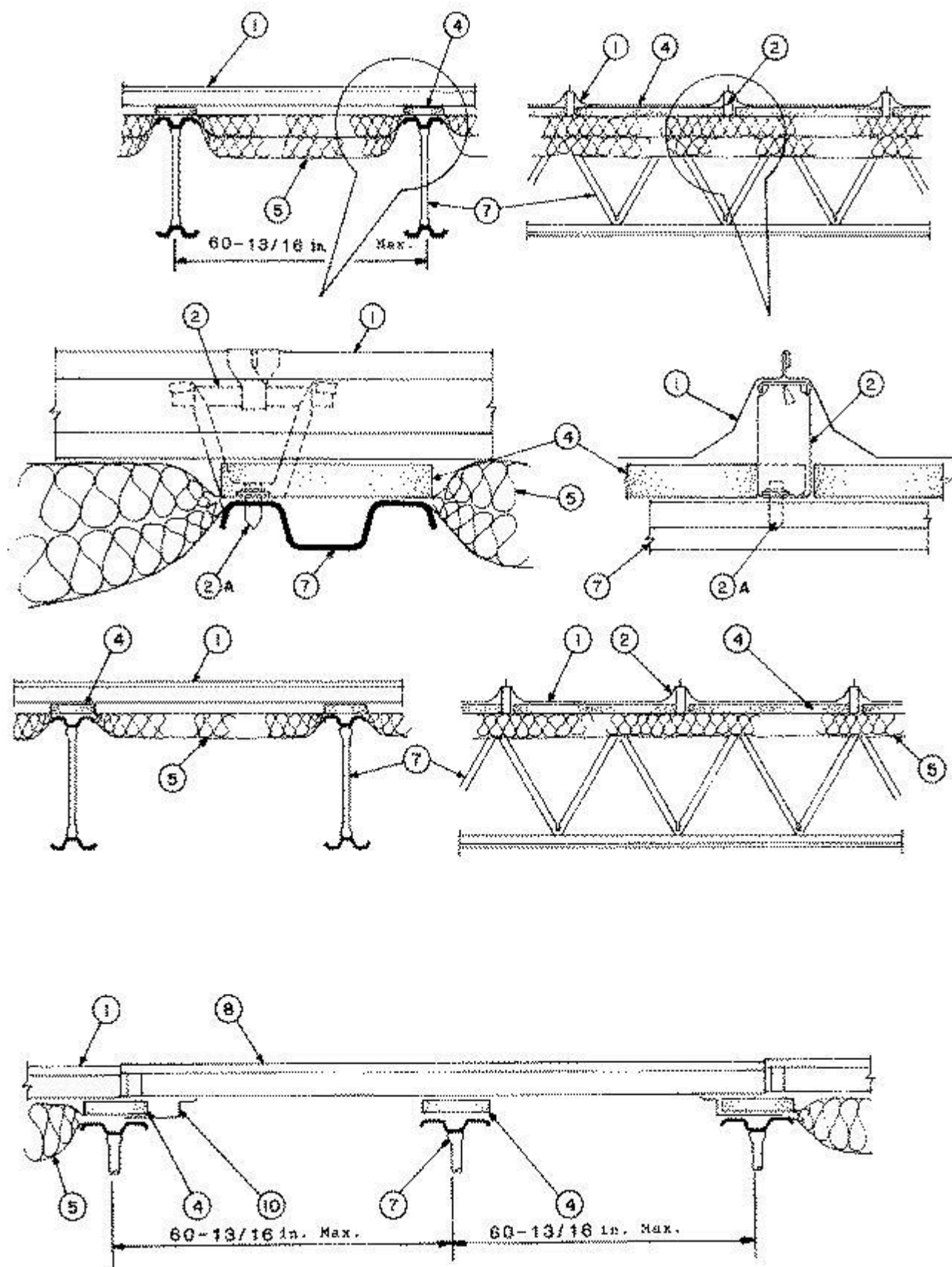
See General Information for Roof Deck Constructions

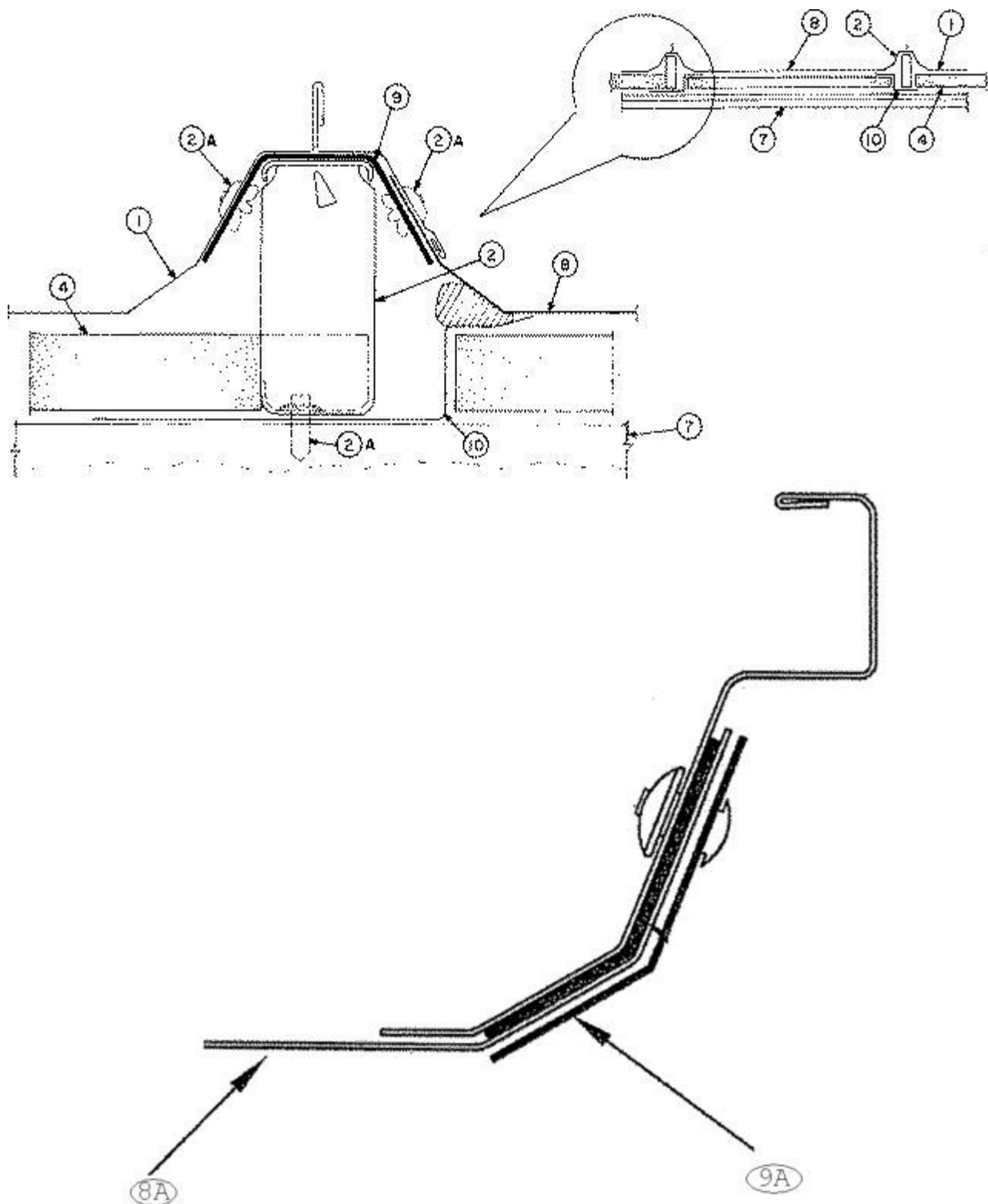
Construction No. 62

August 20, 2009

Uplift — Class 90

Fire Not Investigated





1. **Metal Roof Deck Panels*** — No. 24 MSG min gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 3 in. min. The lap begins approximately even with the inner edge of the upslope section of the top flange and extends across the upslope section. A bead of sealant may be used at the panel end and side laps.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — "MR-24"

2. **Roof Deck Fasteners* (panel clips)** — No. 16 MSG min. coated steel with .017 stainless steel lock seam tab. Height to be 2-1/4 in. when used without spacer blocks (Item 4), 3-5/16 in. when used with spacer blocks, and 3-3/4 in. when used with more than 6 in. of insulation (Item 5). Used at panel side joints.

2A. Roof Deck Fasteners* — Screw or blind rivet type — Screws for attaching panel clips to be No. 16 MSG min. For purlins to be 11/32 in. — 12 by 7/8 in. self-tapping, plated steel screws (Scru-Bolts). Pilot hole to be 5/16 in. diam. One fastener per clip to be used. Blind rivet type fasteners (Lock-Rivets) spaced 12 in. OC to be used to attach Building Units (Items 8 and 8A) to reinforcing channels.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — "Scru-Bolts" , "Lock-Rivets"

3. Fasteners — (Screws) Not Shown — Fasteners for attaching panel clips to purlins having a min thickness of 0.133 in. for the upper chord to be No. 12-24 self-drilling, self-tapping, hex-head, plated steel screws or No. 1/4-14 self-drilling, self-tapping, hex-head plated steel screws. All types to have a separate 5/8 in. OD steel washer and a neoprene sealing washer. Also a No. 1/4 -20 by 1-1/2 in long self-drilling, self-tapping, plated steel screw with an integrated 5/8 in. diameter hex-washer-head may be used. Diameter of pilot holes determined by thickness of purlins (Item 7).

4. Spacer Block — Used over purlin with panel clip, 5 in. by 23-5/8 in. by 2 in. min 3/4 in. thick polystyrene foam.

5. Insulation — (Optional) — Any compressible blanket insulation 9 in. max thickness before compression. An additional 2 in. max thickness of compressible blanket insulation may be located between purlins. This additional insulation shall not be sandwiched between the top flange of the purlin and the metal roof deck panels.

6. Splice Plate Assembly — (not shown) — Used at panel end laps; 3 by 21 in. by No. 18 MSG min gauge coated steel. Four 1/4-20 by 5/8 in. long machine screw studs welded to the plate. Panel strap used on top of end lapped panels to be 1-1/4 by 24 by 0.100 in. min thickness aluminum formed to the panel configuration and with passageways for water run-off. Flange nuts are used with machine screws.

7. Purlin (supports) — No. 16 MSG min gauge cold rolled steel (55,000 psi min yield strength) or 16 MSG min gauge galv steel (42,000 psi min yield strength) or min Type K open web steel joists. As alternates, structural steel components (hot rolled beams, channels, angles, etc.) may be used, min thickness of section receiving fasteners to be No. 12 MSG. (min. yield strength to be 33,000 psi.)

8. Building Units* — Translucent, glass fiber reinforced plastic panels. Thickness 1/16 in. formed to the same configuration as metal panels. Panels continuous over two spans. To be used with Item 9. The units may consist of a single panel or of an upper and lower skin with an air space in between.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — "MR-24 Lite*Panl" , "MR-24 Insulated Lite Panl"

8A. Building Unit (Light Transmitting Panels)* — Translucent, reinforced plastic panels. Nom thickness 0.060 in. Formed to the same configuration as the metal panels (Item 1). Panels continuous over two spans. To be used with Item 9A.

NCI BUILDING SYSTEMS L P (View Classification) — "Ultra-Dek Light Transmitting Panel" or "Double-Lok Light Transmitting Panel"

9. Reinforcing Channel — 1-1/2 in. legs, 15/16 in. web, 49-1/2 in. long, No. 16 MSG min gauge coated steel, used with Item 8.

9A. Reinforcing Channel — 1 in. by 1-3/8 in. legs by 49-1/2 in. long, No. 18 MSG min gauge coated steel, used with Item 8A.

10. Insulation Retainer — Used at the sides of the "Building Units" ; a modified "Zee" shape with a 1 in. upper leg and a 4-1/2 in. lower leg, 1 in. deep. Fabricated from 0.026 in. thick coated steel.

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

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2009-08-20

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TGKX.62A - Roof Deck Constructions

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Roof Deck Constructions

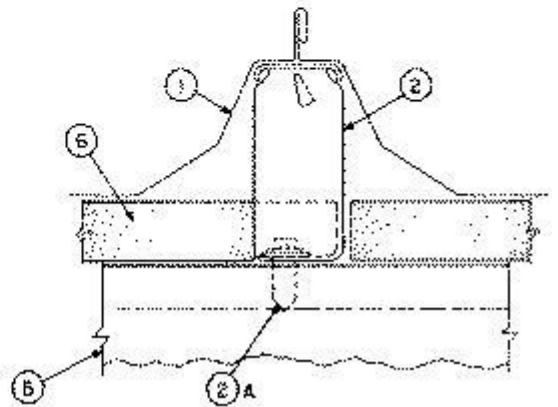
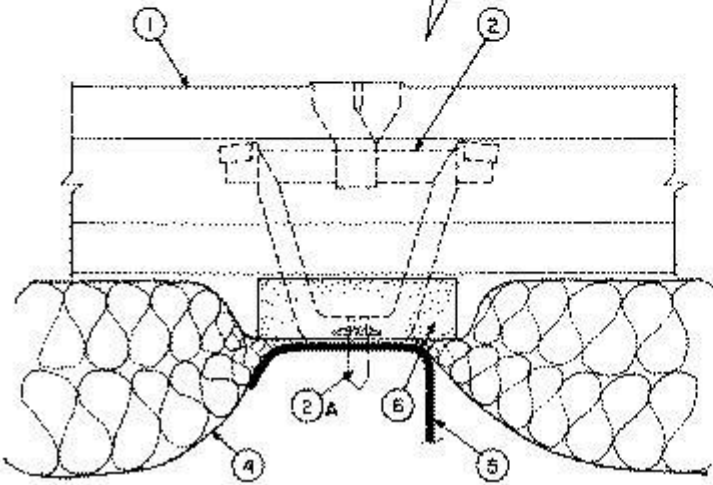
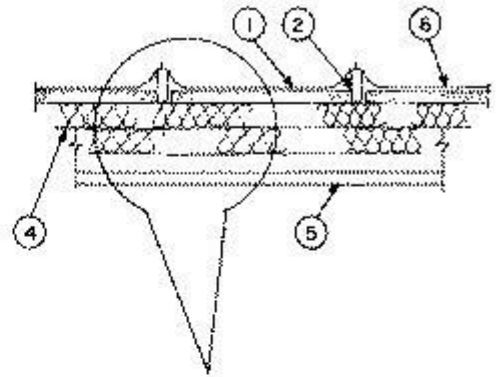
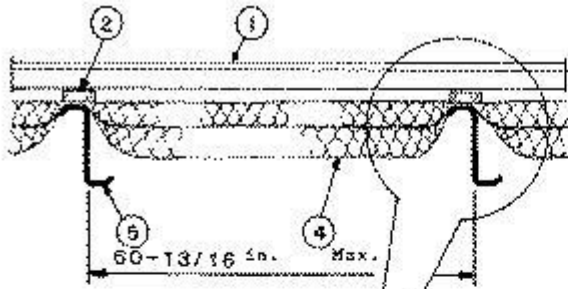
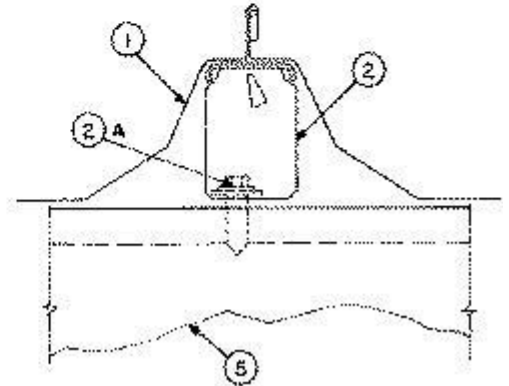
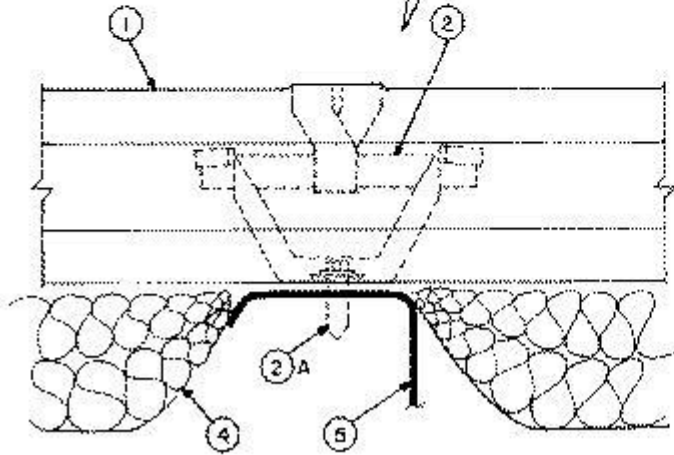
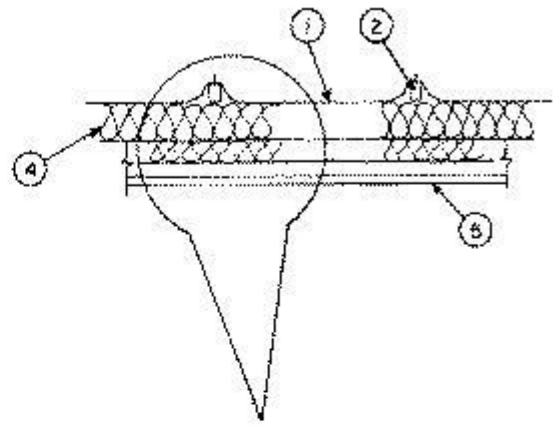
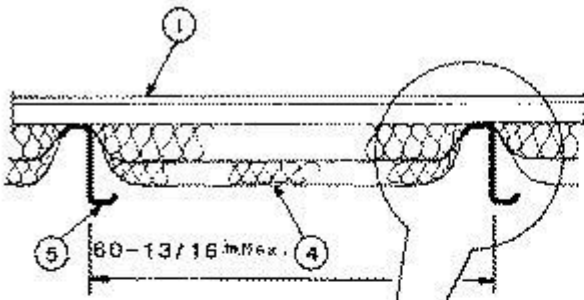
See General Information for Roof Deck Constructions

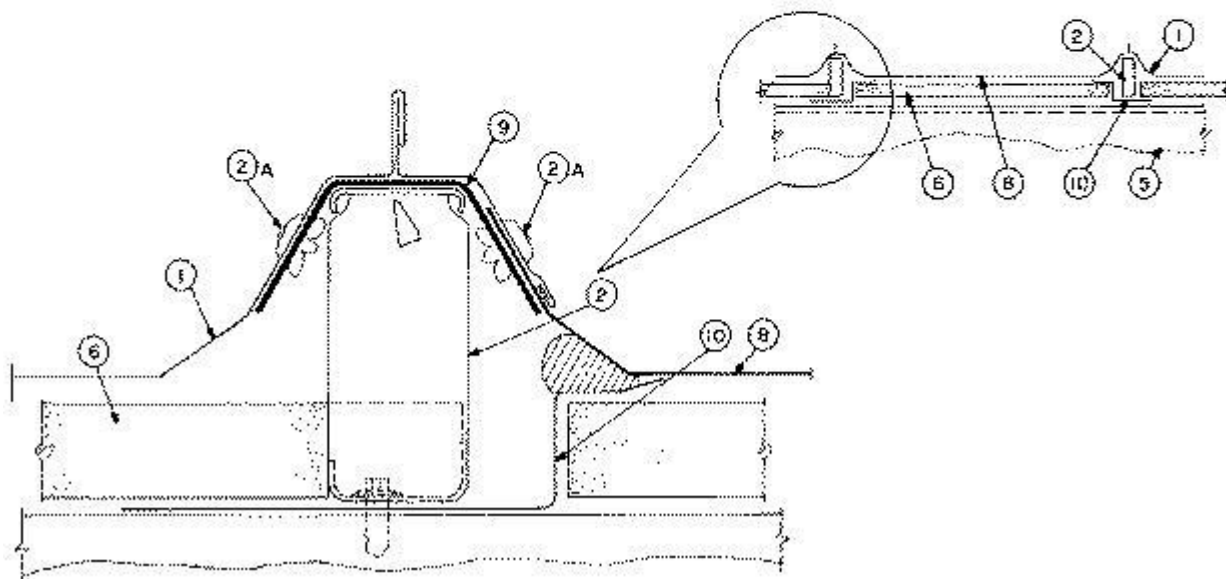
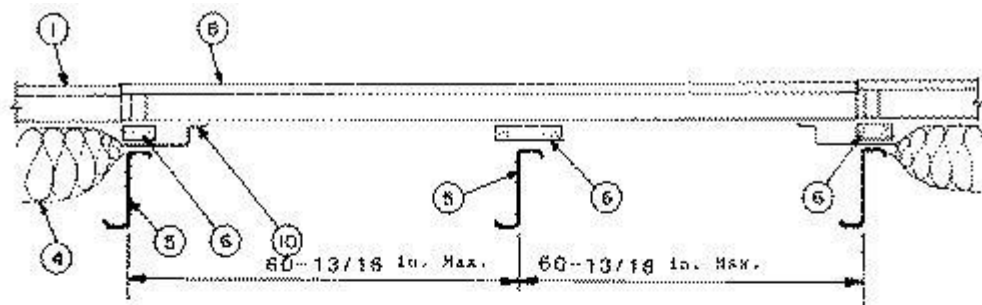
Construction No. 62A

August 20, 2009

Uplift — Class 90

Fire Not Investigated





1. **Metal Roof Deck Panels*** — No. 24 MSG min gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 3 in. min. Lap begins approximately even with the purlin web and extends across purlin top flange. A bead of sealant may be used at the panel end and side laps.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — "MR-24" .

2. **Roof Deck Fasteners* (panel clips)** — No. 16 MSG min gauge coated steel with .017 stainless steel lock seam tab. Height to be 2-1/4 in. when used without spacer blocks (Item 6) or 3-5/16 in. when used with spacer blocks, and 3-3/4 in. when used with more than 6 in. of insulation (Item 5). Used at panel side joints.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — "MR-24 clips" .

2A. **Roof Deck Fasteners*** — Screw or blind rivet type. Screws for attaching panel clips to be No. 16 MSG min. Purlins to be 11/32 by 12 by 7/8 in. self-tapping, plated steel screws (Scru-Bolts). Pilot holes to be 5/16 in. diam. One fastener per clip to be used. Blind rivet type fasteners (Lock-Rivets) spaced 12 in. OC to be used to attach Building Units (Items 8 and 8A) to reinforcing channels.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — "Scru-Bolts" , "Lock-Rivets" .

3. **Fasteners** — (Screws) — Not Shown — Fasteners for attaching panel clips to purlins (having a minimum thickness of 0.133 in. for the upper chord) to be No. 12-24 self-drilling, self-tapping, hex-head, plated steel screws, or No. 1/4-14 self-drilling, hex-head plated steel screws or No. 1/4-14 self-tapping, hex-head, plated steel screws. All types to have a separate 5/8 in. OD steel washer and a neoprene sealing washer. Diam of pilot holes to be determined by thickness of purlin (Item 5). Also a No. 1/4-20 by 1-1/2 in. long self-drilling, self-tapping, plated steel screw with an integrated hex-washer-head may be used.

4. **Insulation** — (Optional) — Any compressible blanket insulation 9 in. max thickness before compression. An additional 2 in. max thickness of compressible blanket insulation may be located between purlins. This additional insulation shall not be sandwiched between the top flange of the purlin and the metal roof deck panels.

5. **Supports** — (purlins) — No. 16 MSG min gauge cold rolled steel (55,000 psi min yield strength) or No. 16 MSG min gauge galvanize steel (42,000 psi min yield strength). As alternates, structural steel components (hot rolled beams, channels, angles, etc) may be used. Min thickness of section receiving fasteners to be No. 12 MSG (min yield strength to be 33,000 psi).

6. **Spacer Block** — Used over purlin between panel clip. 3 1/4 by 23-5/8 by 2-3/4 in. min thick Polystyrene plastic foam.

7. **Splice Plate Assembly** — (Not shown) — Used at panel end laps. 3 by 21 in. by No. 18 MSG min gauge coated steel. Four 1/4-20 by 5/8 in. long machine screw studs welded to the plate. Panel strap used on top of end lapped panels to be 1-1/4 by 24 by 0.100 in. min thick aluminum formed to the panel configuration and with passageways for water run-off. Flange nuts are used with machine screws.

8. **Building Units*** — Translucent, glass fiber reinforced plastic panels. Thickness 1/16 in. formed to the same configuration as metal panels. Panels continuous over two spans. To be used with Item 9. The units may consist of a single panel or of an upper and lower skin with air space in between.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — "MR-24 Lite*Panl" , "MR-24 Insulated Lite Panl"

8A. **Building Unit (Light Transmitting Panels)*** — Translucent, reinforced plastic panels. Nom thickness 0.060 in. Formed to the same configuration as the metal panels (Item 1). Panels continuous over two spans. To be used with Item 9A.

NCI BUILDING SYSTEMS L P (View Classification) — "Ultra-Dek Light Transmitting Panel" or "Double-Lok Light Transmitting Panel"

9. **Reinforcing Channel** — 1-1/2 in. legs, 1-5/6 in. web, 49-1/2 in. long, No. 16 MSG min gauge coated steel used with Item 8.

9A. **Reinforcing Channel** — 1 in. by 1-3/8 in. legs by 49-1/2 in. long, No. 18 MSG min gauge coated steel, used with Item 8A.

10. **Insulation Retainer** — Used at the sides of the "Building Units." A modified "Zee" shape with a 1 in. upper leg and a 4-1/2 in. lower leg, 1 in. deep. Fabricated from 0.026 in. thick coated steel.

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

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2009-08-20

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TGKX.178 - Roof Deck Constructions

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Roof Deck Constructions

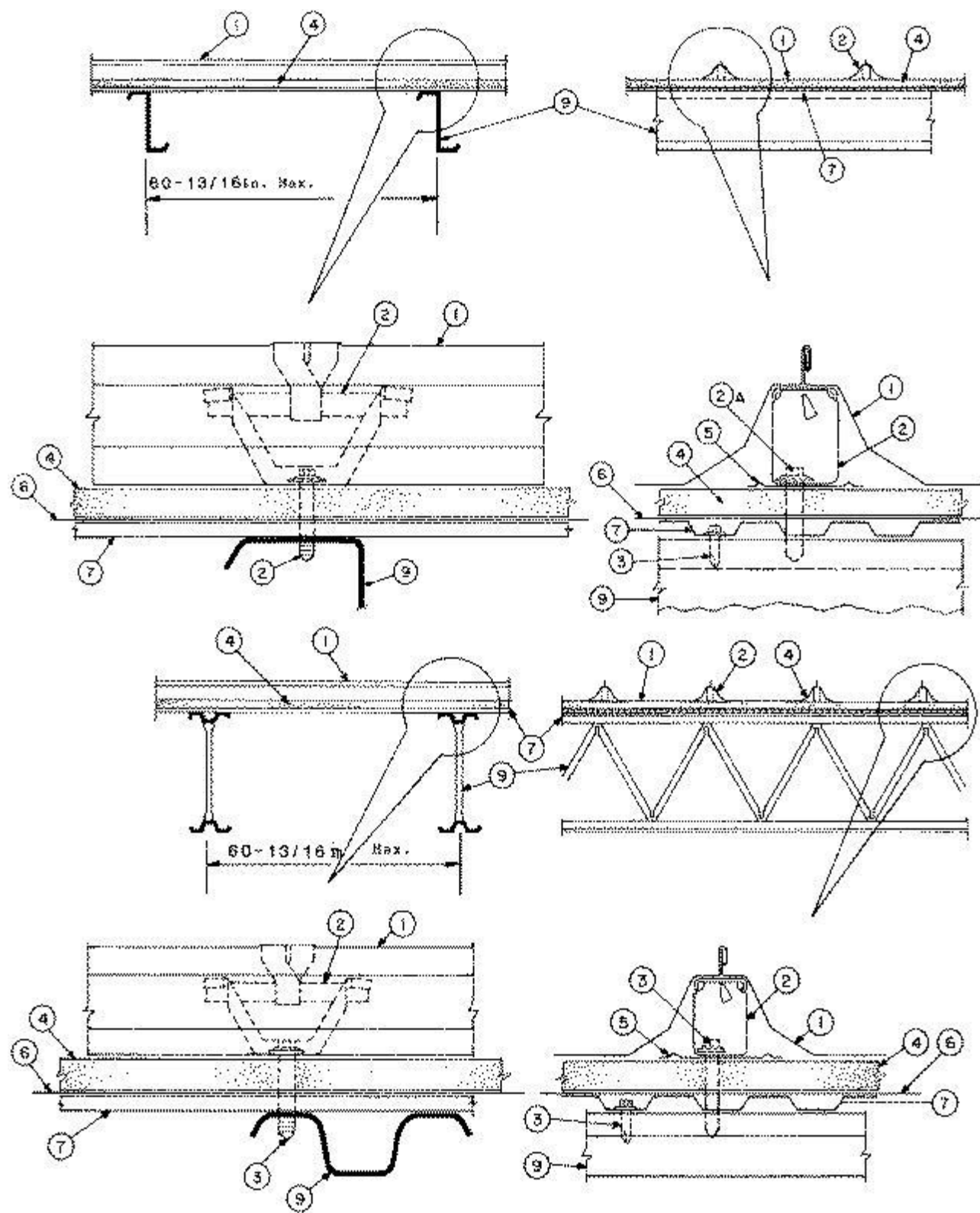
See General Information for Roof Deck Constructions

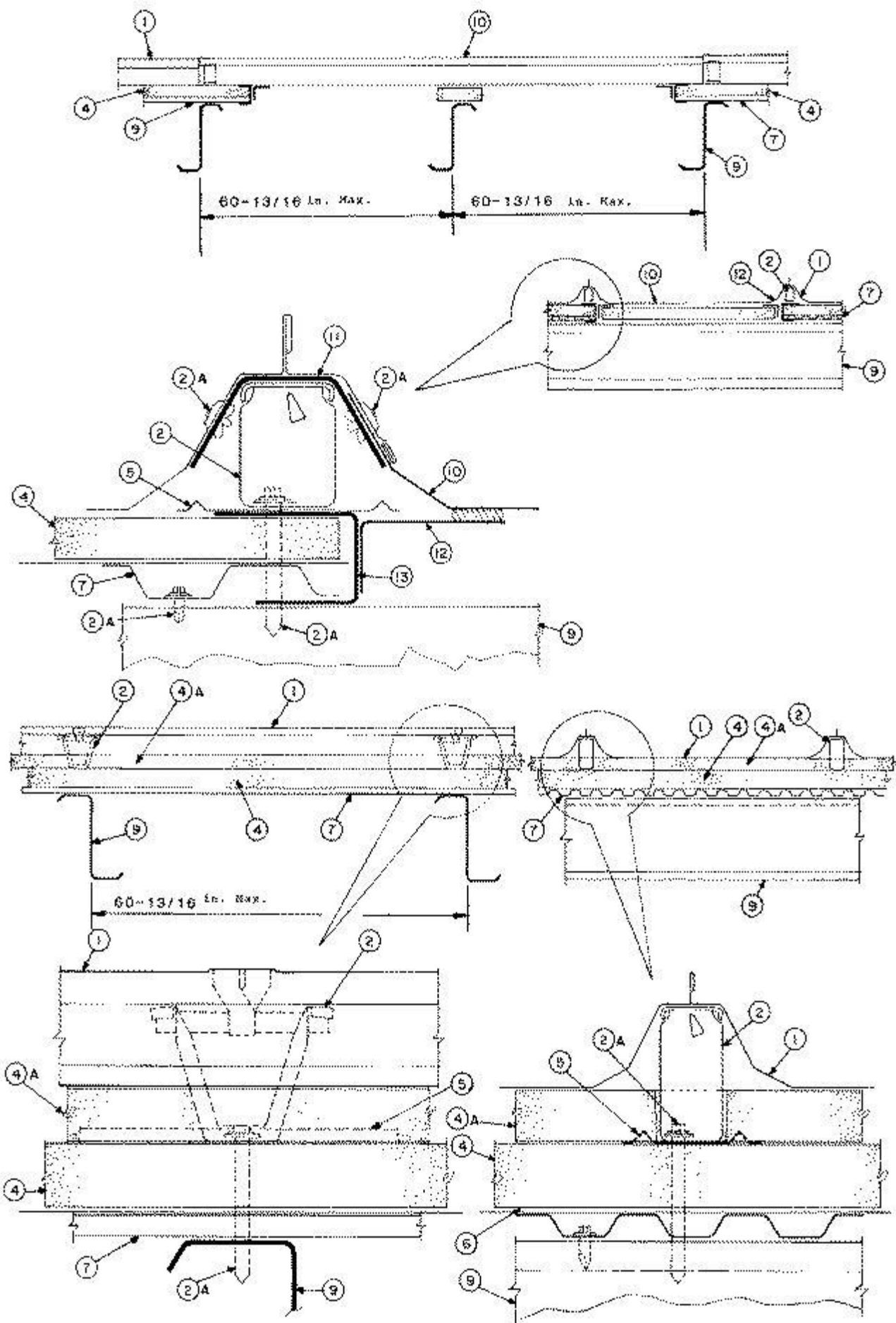
Construction No. 178

August 05, 2019

Uplift — Class 90

Fire Not Investigated







1. Metal Roof Deck Panels* — Panel Thickness — When liner panel is used No. 26 MSG minimum thickness coated steel, when liner panel (Item 7) is not used No. 24 MSG minimum thickness coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped 3 in. min with lap beginning approx even with the purlin web and extending across purlin top flange. On the truss purlin, the lap begins approx even with the inner edge of the upsloped section of the top flange and extends across the upsloped section. A bead of sealant may be used at the panel end and side laps.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — MR-24

2. Roof Deck Fasteners* (Panel clips) — No. 16 MSG min. coated steel with .017 stainless steel lock seam tab. Height to be 2-1/4 in., when used without Thermax (Item 4A) between the clips, 3-5/16 in. when used with 1-1/4 in. Thermax between clips and 3-3/4 in. when used with 1-3/4 in. Thermax between clips.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — MR-24 clip

2A. Roof Deck Fasteners* — (Screw or blind rivet Type Screws — for attaching panel clips to No. 16 MSG min. gauge purlins to be 11/32 in. — 12, self-tapping, plated steel screws (Scru-Bolts), minimum length to be equal to combined thickness of liner panel depth and insulation plus 3/4 in. Pilot holes to be 5/16 in. diameter. One fastener per clip to be used. Blind rivet type fasteners (Lock-Rivets) spaced 12 in. O.C. to be used to attach Building Units (Items 10 and 10A) to reinforcing channels.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — Scru-Bolts, Lock-Rivets

3. Fasteners (Screws) — Not shown — Fasteners for attaching panel clip to purlins having a minimum thickness of 0.133 in. for upper chord to be No. 12-24 self-drilling, self-tapping, hex-head, plated steel screws, or No. 1/4-14 self-tapping, hex-head plated steel screws. Minimum length to be equal to combined thickness of liner panel depth and insulation plus 3/4 in. pilot holes to be determined by thickness of purlin (Item 9). Fasteners for attaching liner panel to purlins to be No. 12 by 3/4 in. long self-drilling, self-tapping, hex-head plated screws. Minimum spacing to be 12 in. OC located in valleys.

4. **Foamed Plastic*** — Rigid type, supplied in 4 ft wide sheets, min thickness 3/4 in., max thickness 4 in.

THE DOW CHEMICAL CO (View Classification) — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR, TUFF-R™ ci Insulation, Thermax IH Insulation, Type Thermax Plus Liner Panel and Thermax Heavy Duty Plus (HDP)

ATLAS ROOFING CORP (View Classification) — "Classic Shield"

5. **Bearing Plate** — No. 26 gauge coated steel, 3-1/4 by 10-1/4 in.

6. **Vapor Retarder** — (Optional — not shown) — 3 mil (min thickness) vinyl sheeting (or equivalent).

7. **Liner Panel** — (Optional — See Item No. 1)Corrugations; 3/8 in. min height. Min. thickness, No. 29 MSG coated steel, (80,000 psi min yield strength).

8. **Splice Plate Assembly** — (Not shown) — Used at panel end splices; 3 by 21 in. by No. 18 MSG min gauge coated steel. Four 1/4 in.-20 by 5/8 in. long machine screws welded to the plate. Panel strap used on top of end-lapped panels 1-1/4 by 24 by 0.100 in. min thickness aluminum formed to the panel configuration. Flange nuts are used with the machine screws.

9. **Purlins** — No. 16 MSG min thickness (55,000 psi min yield strength), or 16 MSG min gauge galv steel (42,000 psi min yield strength), or min type K open web steel joists. As alternate structural steel components (hot rolled beams, channels, angles etc) may be used, min thickness of section receiving fasteners to be No. 12 MSG (min yield strength to be 33,000 psi).

10. **Building Units** — Translucent, glass fiber reinforced plastic panels. Thickness 1/16 in. formed to the same configuration as metal panels. Panels continuous over two spans. The units may consist of a single panel or of an upper and lower skin with air space in between.

BUTLER MANUFACTURING, DIV OF BLUESCOPE BUILDINGS NORTH AMERICA INC (View Classification) — MR-24 Lite*Panl

10A. **Building Unit (Light Transmitting Panels)*** — Translucent, reinforced plastic panels. Nom thickness 0.060 in. Formed to the same configuration as the metal panels (Item 1). Panels continuous over two spans. To be used with Item 11A.

NCI BUILDING SYSTEMS L P (View Classification) — "Ultra-Dek Light Transmitting Panel" or "Double-Lok Light Transmitting Panel"

11. **Reinforcing Channel** — 1-1/2 in. legs, 1 5/16 in. web, 49-1/2 in. long, No. 16 MSG min gauge coated steel used with Item 10.

11A. **Reinforcing Channel** — 1 in. by 1-3/8 in. legs by 49-1/2 in. long, No. 18 MSG min gauge coated steel, used with Item 10A.

12. **Side Trim** — Used at the edge of the rigid insulation; "U" shaped with a 2-1/8 in. upper leg, a 1/2 in. lower leg, 3 in. max height. Angle trim used at the building unit sides to have 1 3/8 in. horizontal leg and a 1 in. vertical leg. Both trim pieces fabricated from 0.027 in. thick coated steel used with Item 10.

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

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Last Updated on 2019-08-05

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