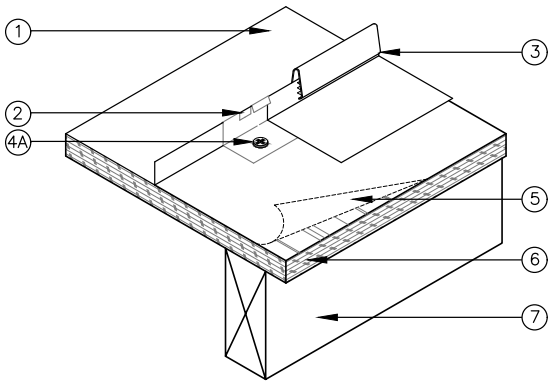
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 296 - Galvalume®

**BERRIDGE TEE-PANEL OVER SOLID PLYWOOD SHEATHING**




1. **BERRIDGE TEE-PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 12 ¾" wide and rib height of ⅝". Total seam height with snap-on seam cover in place is nominal 1". Panels to be continuous length. End laps to be overlapped min. 6". A line of sealant may be used at panel end & side laps.
2. **BERRIDGE TEE PANEL CLIP:** One-piece clip, ¾" high x 1 ½" wide x 1 ⅝" long, No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Clips spaced max 24" O.C., located at panel sides.
3. **BERRIDGE SNAP-ON SEAM COVERS:** Seams covering panel ribs to be 3/8" wide by ⅞" high with vinyl insert (U.S. Patent No. 4,641,475) formed from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel.
4. **FASTENERS:**
   a. **For Connection of Item #2 to Item #6:** No. 10 x 1" long pancake head wood screw with No. 2 Philips drive. One screw per clip.
   b. **For Connection of Item #6 to Item #7 (Not shown):** 2.5" long 8d deformed shank nails. When light gauge steel joists are used, screws to be No. 12 x 1 ⅝" with Philips drive head. Screws to be spaced 6" O.C. at plywood ends and 12" O.C. at interior joints.
5. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
6. **SUBSTRUCTURE (PLYWOOD):** Nominal 5/8" thick, exposure sheathing span C-D, 40/20 plywood. Butt joints sealed with tape and/or caulk.
7. **JOISTS:** Spaced 2' O.C. May be one of the following:
   a. Nom 2x6 wood joists No. 2 or better
   b. Nom 2x4 wood when used on top chord of wood truss, No. 2 or better
   c. Light gauge structural steel with the member against wood to be min. 22 MSG coated steel

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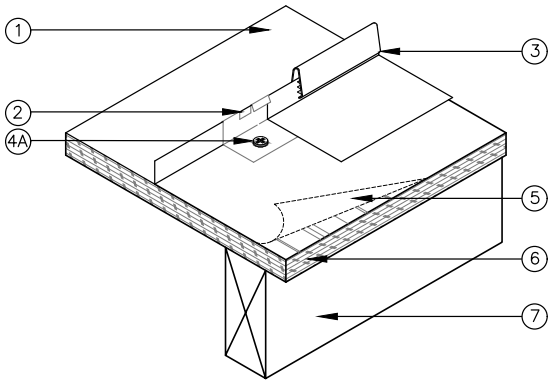
## CONSTRUCTION NO. 296 - Aluminum

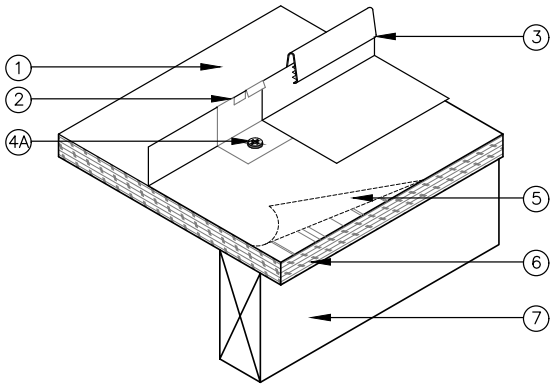
**BERRIDGE TEE-PANEL OVER SOLID PLYWOOD SHEATHING**




1. **BERRIDGE TEE-PANEL:** Minimum 0.032 aluminum, 12 ¾" wide and rib height of ⅝". Total seam height with snap-on seam cover in place is nominal 1". Panels to be continuous length. End laps to be overlapped min. 6". A line of sealant may be used at panel end & side laps.
2. **BERRIDGE PANEL CLIP:** One-piece clip, ¾" high x 1 ½" wide x 1 ⅝" long, No. 24 MSG (Min. yield strength 40,000 PSI) stainless steel. Clips spaced max 12" O.C., located at panel sides.
3. **BERRIDGE SNAP-ON SEAM COVERS:** Seams covering panel ribs to be 3/8" wide by ⅞" high with vinyl insert (U.S. Patent No. 4,641,475) formed from 0.032" Aluminum.
4. **FASTENERS:**
   a. **For Connection of Item #2 to Item #6:** No. 10 x 1" long pancake head wood screw with No. 2 Philips drive. One screw per clip.
   b. **For Connection of Item #6 to Item #7 (Not shown):** 2.5" long 8d deformed shank nails. When light gauge steel joists are used, screws to be No. 12 x 1 ⅝" with Philips drive head. Screws to be spaced 6" O.C. at plywood ends and 12" O.C. at interior joints.
5. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
6. **SUBSTRUCTURE (PLYWOOD):** Nominal ⅝" thick, exposure sheathing span C-D, 40/20 plywood. Butt joints sealed with tape and/or caulk.
7. **JOISTS:** Spaced 2' O.C. May be one of the following:
   a. Nom 2x6 wood joists No. 2 or better
   b. Nom 2x4 wood when used on top chord of wood truss, No. 2 or better
   c. Light gauge structural steel with the member against wood to be min. 22 MSG coated steel

# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 297 - Galvalume®
### BERRIDGE HIGH SEAM TEE-PANEL OVER SOLID PLYWOOD SHEATHING




1. **BERRIDGE HIGH SEAM TEE-PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18 ¼" wide and rib height 1 ⅜". Total seam height with snap-on seam cover in place is nominal 1 ½". Panels to be continuous length. End laps to be overlapped min. 6". A line of sealant may be used at panel end & side laps.
2. **BERRIDGE TEE PANEL CLIP:** One piece clip, 1 ⅜" high x 1 ½" (nominal) wide x 1 ⅝" long, No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Clips spaced max 24" O.C., located at panel sides.
3. **BERRIDGE SNAP-ON SEAM COVERS:** Seams covering panel ribs to be ⅜" wide by ⅞" high with vinyl insert (U.S. Patent No. 4,641,475) formed from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel.
4. **FASTENERS:**
   a. **For Connection of Item #2 to Item #6:** No. 10 x 1" long pancake head wood screw with No. 2 Philips drive. One screw per clip.
   b. **For Connection of Item #6 to Item #7 (Not shown):** 2.5" LONG 8d deformed shank nails. When light gauge steel joists are used, screws to be No. 12 x 1 ⅝" with Philips drive head. Screws to be spaced 6" O.C. at plywood ends and 12" O.C. at interior joints.
5. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
6. **SUBSTRUCTURE (PLYWOOD):** Nominal ⅝" thick, exposure sheathing span C-D, 40/20 plywood. Butt joints sealed with tape and/or caulked.
7. **JOISTS:** Spaced 2' O.C. May be one of the following:
   a. Nom 2x6 wood joists No. 2 or better
   b. Nom 2x4 wood when used on top chord of wood truss, No. 2 or better
   c. Light gauge structural steel with the member against wood to be min. 22 MSG coated steel

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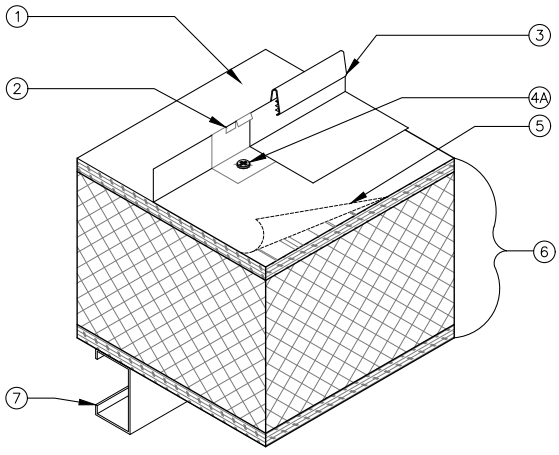
## CONSTRUCTION NO. 475 - Galvalume®
### BERRIDGE HIGH SEAM TEE-PANEL OVER SOLID STRUCTURAL CEMENT FIBER SHEATHING




1. **BERRIDGE HIGH SEAM TEE-PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18 ¼" wide and rib height 1 ⅜". Total seam height with snap-on seam cover in place is nominal 1 ½". Panels to be continuous length. End laps to be overlapped min. 6". A line of sealant may be used at panel end & side laps.
2. **BERRIDGE TEE-PANEL CLIP:** One piece clip, 1 ⅜" high x 1 ½" (nominal) wide x 1 ⅝" long, No. 24 MSG (Min. yield strength 40,000 PSI). Clips spaced max 12" O.C., located at panel sides.
3. **BERRIDGE SNAP-ON SEAM COVERS:** Seams covering panel ribs to be ⅜" wide by ⅞" high with vinyl insert (U.S. Patent No. 4,641,475) formed from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel.
4. **FASTENERS:**
   a. **For Connection of Item #2 to Item #6:** #10 x 1" long pancake head steel screw. Two screws per clip.
   b. **For Connection of Item #6 to Item #7 (Not Shown):** 6" long minimum 14 MSG screw with a ⅝" diameter head. Fasteners are spaced 12" on center.
5. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
6. **SUBSTRUCTURE (STRUCTURAL CEMENT-FIBER UNITS):** 5" thick Composite structural cement-fiber units with foamed plastic core and 7/16" OSB structural panel on one face. All transverse butt joints are to occur over a structural support.
7. **JOISTS:** Cee channels spaced max. 7' O.C.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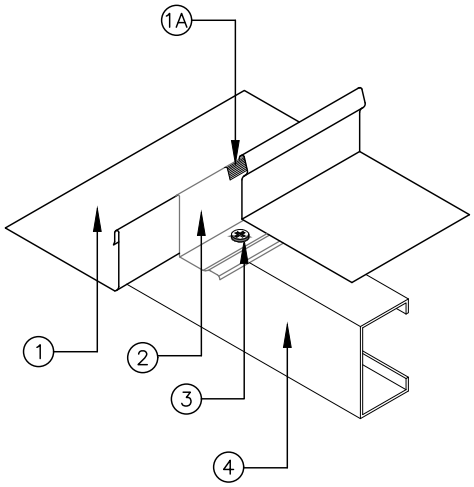
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 334 - Galvalume®

**BERRIDGE CEE-LOCK PANEL WITH CONTINUOUS CEE-RIB OVER OPEN PURLINS (NO INSULATION) (CONSULT BMC FOR APPROVED APPLICATIONS)**




1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 ½" wide, 1 ½" high panel continuous over two or more spans without endlaps.
   a. A vinyl weatherseal (U.S. Patent 4641475) must be used at panel side joints
2. **BERRIDGE CONTINUOUS CEE-RIB:** One-piece 1 ½" high assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Cee-Rib located at each panel side joint, continuous and equal to length of Berridge Cee-Lock Panels (Item 1).
3. **FASTENERS:** No. 10-16 x ⅝" self-drilling pancake-head steel screw. Two fasteners per clip at each purlin location.
4. **PURLINS:** No. 16 MSG (Min. yields strength 50,000 PSI), 4'0 on center maximum spacing.

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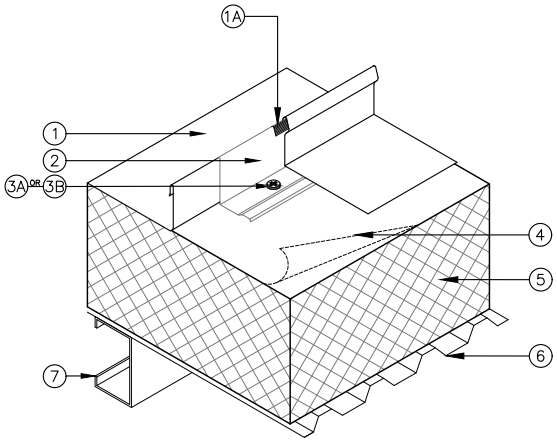
## CONSTRUCTION NO. 381 - Galvalume®

**BERRIDGE CEE-LOCK PANEL WITH CONTINUOUS CEE-RIB THROUGH 4" OF RIGID BOARD AND INTO 24 GAUGE STRUCTURAL METAL DECK OR OPEN PURLINS**




1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 ½" wide, 1 ½" high panel continuous over two or more spans without endlaps.
   a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CONTINUOUS CEE-RIB:** One-piece 1 ½" high assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Cee-Rib located at each panel side joint, continuous and equal to length of Berridge Cee-Lock Panels (Item 1).
3. **FASTENERS (SCREWS):**
   a. **For Connection of Item #2 to Item #6:** #12 self-drilling steel screw through rigid board and connected to metal deck at 24" on center. Fastener length to be adjusted to account for thickness of rigid insulation and liner panel with ¾" minimum penetration into metal deck.
   b. **For Connection of Item #2 to Item #7:** #12 self-drilling steel screw per clip at each purlin location. Fastener length to be adjusted to account for thickness of rigid insulation, liner panel, and purlin with ¾" minimum penetration into the purlin.
   c. **For Connection of Item #6 to Item #7 (Not Shown):** (1) #10X3/4" fastener spaced 5.5" on center.
4. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
5. **INSULATION:** Max. 4" thick, 2.25 pcf density 20 psf compressive strength rigid closed cell polyisocyanurate core fiberglass faced insulation.
6. **SUBSTRUCTURE (LINER):** No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Corrugation height to be minimum of ¾". Endlaps to occur over purlins with panels overlapped minimum 4".
7. **Purlins:** 16 MSG (Min. 50,000 PSI) coated steel. Spacing to be:
   a. 5'0 on center when Item #2 is connected to Item #7
   b. 4'0 on center when Item #2 is connected to Item #6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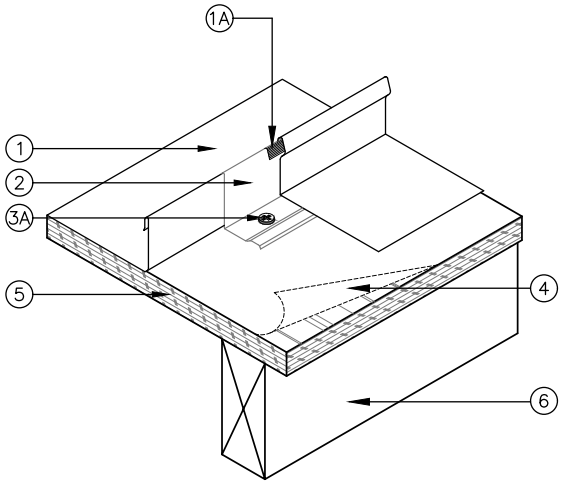
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 404 - Galvalume®

**BERRIDGE CEE-LOCK PANEL WITH INDIVIDUAL CEE-CLIPS OVER 5/8" PLYWOOD DECK SOLID WOOD SHEATHING**




1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 ½" wide, 1 ½" high panel continuous over two or more spans without endlaps.
   a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CEE-CLIPS:** One-piece, 1 ½" high x 1 3/16" wide x 3 ½" long, No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Clip spaced 36" on center at panel side joint.
3. **FASTENERS:**
   a. **For Connection of Item #2 to Item #5:** No. 10 x 1" Pancake Head, steel screws. Two fasteners per Cee-Clip.
   b. **For Connection of Item #5 to Item #6 (Not Shown):** No. 8 x 1.5" long pan head wood screw spaced 12" on center at plywood to joist connection and at plywood ends.
4. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
5. **SUBSTRUCTURE (PLYWOOD):** Plywood decking to be nominal ⅝" thick, sheathing span C-D 40/20 Plywood.
6. **JOISTS:** Nominal 2" x 4" spaced 2'-0" on center maximum.

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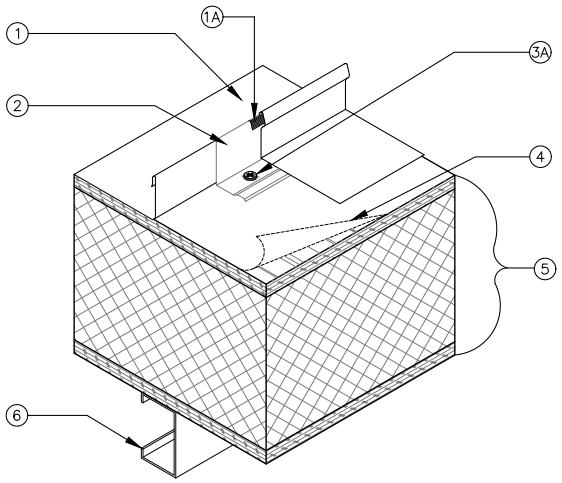
## CONSTRUCTION NO. 474 - Galvalume®

**BERRIDGE CEE-LOCK PANEL WITH CONTINUOUS CEE-RIB OVER STRUCTURAL CEMENT FIBER SHEATHING**




1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 ½" wide, 1 ½" high panel continuous over two or more spans without endlaps.
   a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CONTINUOUS CEE-RIB:** One-piece 1 ½" high assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Cee-Rib located at each panel side joint, continuous and equal to length of Berridge Cee-Lock Panels (Item 1).
3. **FASTENERS:**
   a. **For Connection of Item #2 to Item #5:** No. 10 x 1" long pancake head steel screw at 12" on center.
   b. **For Connection of Item #5 to Item #6 (Not Shown):** 6" long minimum 14 MSG screw with a ⅝" diameter head. Fasteners are spaced 12" on center.
4. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
5. **SUBSTRUCTURE (STRUCTURAL CEMENT-FIBER UNITS):** 5" thick Composite structural cement-fiber units with foamed plastic core and 7/16" OSB structural panel on one face. All transverse butt joints are to occur over a structural support.
6. **JOISTS:** Cee channels spaced max. 7' O.C.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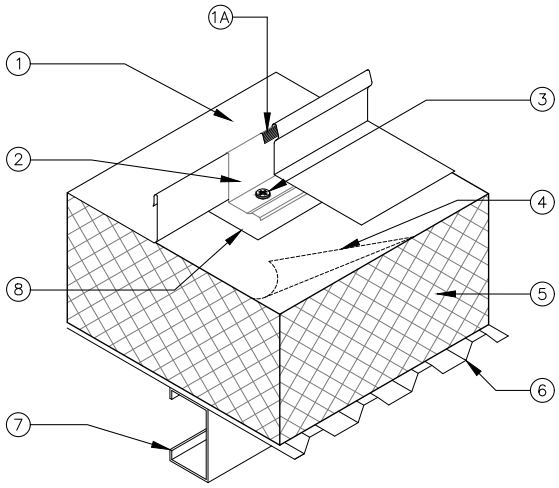
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 689 - Aluminum

**BERRIDGE ALUMINUM CEE-LOCK PANEL WITH INDIVIDUAL STAINLESS STEEL CEE-CLIPS THROUGH 6" OF RIGID BOARD AND INTO 22 GAUGE STRUCTURAL METAL DECK**




1. **BERRIDGE CEE-LOCK PANEL:** 0.032" coated Aluminum, 16 ½" wide, 1 ½" high panel continuous over two or more spans without endlaps.
   a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CEE-CLIP:** One-piece, 1 ½" high x 1 3/16" wide x 3 ½" long, No. 24 MSG (Min. yield strength 40,000 PSI) stainless steel. Clip spaced 20" on center at panel side joint.
3. **FASTENERS (SCREWS):**
   a. **For Connection of Item #2 to Item #6:** #14-13 DP1 pancake head deck fastener through rigid board and connected to metal deck. Two fasteners per clip. Fastener length to be adjusted to account for thickness of rigid insulation and liner panel with ¾" minimum penetration into metal deck.
   b. **For Connection of Item #6 to Item #7 (Not Shown):** ¼-14 x 1 ¼" HWH 36/7 fastener pattern (fastener every low flute of deck.)
4. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
5. **INSULATION:** Max. 6" thick, 2.25 pcf density 20 psf compressive strength rigid closed cell polyisocyanurate core fiberglass faced insulation.
6. **SUBSTRUCTURE (LINER):** No. 22 MSG (Min. yield strength 40,000 PSI) coated steel. Corrugation height to be minimum of ¾". Endlaps to occur over purlins with panels overlapped minimum 4".
7. **PURLINS:** 12 MSG (Min. 50,000 PSI) coated steel. Spacing to be:
   a. 5'0 on center when Item #6 is connected to Item #7
8. **CLIP BEARING PLATE:** 6" x 6" NO. 24 MSG coated steel, used with rigid insulation only.

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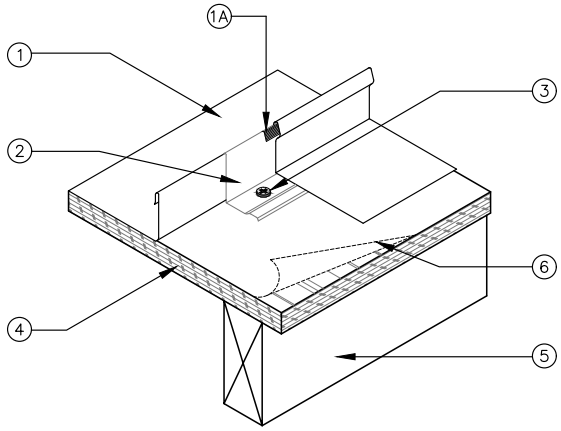
## CONSTRUCTION NO. 690 - Aluminum

**BERRIDGE ALUMINUM CEE-LOCK PANEL WITH INDIVIDUAL CEE-CLIPS OVER 15/32" PLYWOOD SHEATHING**




1. **BERRIDGE CEE-LOCK PANEL:** 0.032" coated aluminum, 16 ½" wide, 1 ½" high continuous over two or more spans without endlaps.
   a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CEE-CLIP:** One-piece, 1 ½" high x 1 3/16" wide x 3 ½" long, No. 24 MSG (Min. yield strength 40,000 PSI) stainless steel. Clip spaced 20" on center at panel side joint.
3. **FASTENERS (SCREWS):**
   a. **For Connection of Item #2 to Item #5:** #12-11 x1" GP fastener, two fasteners per clip.
   b. **For Connection of Item #5 to Item #6 (Not Shown):** 2.5" long 8d hot galvanized ring shank patio/ deck nails spaced 6" maximum at plywood to joist connection and plywood ends
4. **FELT PAPER:** Two ply, No. 30 lb per 100 sq. ft.
5. **SUBSTRUCTURE (PLYWOOD):** Nominal 15/32" thick, 4-ply B-C Group 1 exterior plywood.
6. **WOOD JOIST:** Joists to be min. Nominal 2x10" wood members spaced max. 24" on center.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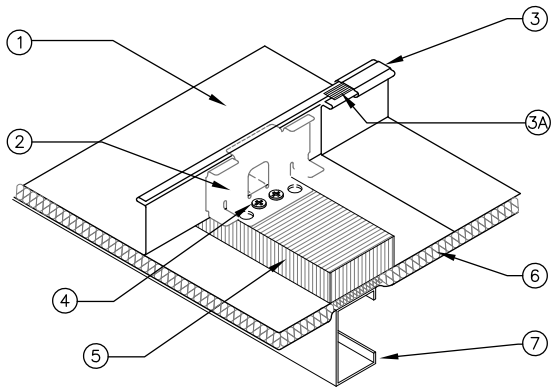
## CONSTRUCTION NO. 268 - Galvalume®

**BERRIDGE TEE-LOCK PANEL WITH INDIVIDUAL TEE-LOCK CLIPS TO OPEN PURLINS**




1. **BERRIDGE TEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18" wide, 2 ⅜" high, continuous over two or more spans. Floating end laps to occur over purlins with panels overlapped 8". End lap to begin 3" from purlin web and extend across purlin flange.
2. **BERRIDGE TEE-LOCK CLIPS:** No. 16 MSG (Min. yield strength 50,000 PSI) coated steel, 6" long by 2.718" high. Base to have four 0.281" diameter guide holes to accommodate screw fasteners. Clips spaced 5'0 on center at each side lap.
3. **BERRIDGE TEE-LOCK SEAM CAP:** Nominal 1" wide x ½" deep fabricated from No. 24 MSG (40,000 PSI) coated steel. Cap continuously seamed over panel seams using an electric seaming tool.
   **a.** A vinyl weatherseal must be used in Seam Cap
4. **FASTENERS (SCREWS):** #14 x 3" self-tapping, hex head, steel screws without washer or ¼-14 hex head driller without washer. Two fasteners per clip.
5. **THERMAL BLOCKS:** (Optional) Located over insulation at purlin locations. Nominal 2 x 4" wood or 1 x 3" polystyrene, continuous over purlins when insulation exceeds 4" max thickness before compression.
6. **INSULATION:** (Optional) Any compressible blanket insulation, 6" maximum thickness before compression.
7. **PURLINS:** No. 16 MSG (Min. yield strength 50,000 PSI) coated steel, 5'0 on center maximum spacing.

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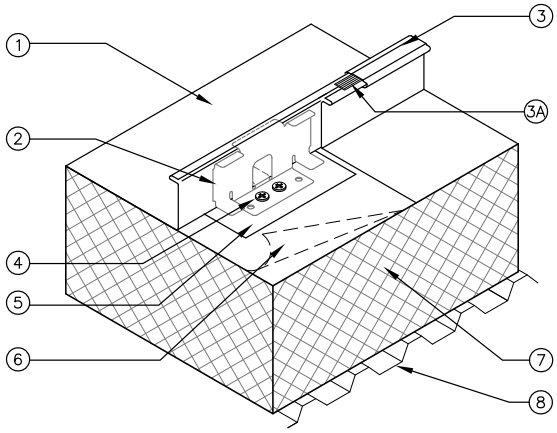
## CONSTRUCTION NO. 268A - Galvalume®

**BERRIDGE TEE-LOCK PANEL WITH INDIVIDUAL TEE-LOCK CLIPS THROUGH 4" OF RIGID BOARD AND INTO 22 GAUGE STRUCTURAL METAL DECK**




1. **BERRIDGE TEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18" wide, 2 ⅜" high, continuous over two or more spans. Floating end laps to occur over purlins with panels overlapped 8". End lap to begin 3" from purlin web and extend across purlin flange.
2. **BERRIDGE TEE-LOCK CLIPS:** No. 16 MSG (Min. yield strength 50,000 PSI) coated steel, 6" long by 2.718" high. Base to have four 0.281" diameter guide holes to accommodate screw fasteners. Clips spaced 48" on center at every side lap.
3. **BERRIDGE TEE-LOCK SEAM CAP:** Nominal 1" wide x ½" deep fabricated from No. 24 MSG (40,000 PSI) coated steel. Cap continuously seamed over panel seams using an electric seaming tool.
   **a.** An optional vinyl weatherseal may be used in Seam Cap
4. **FASTENERS (SCREWS):** #12 self-tapping, hex head, steel screws without washers or ¼-13 with No. 3 Phillips head deck screw. Two fasteners per clip.
5. **CLIP BEARING PLATE:** 6" x 6" No. 22 MSG (Min. yield strength 40,000 PSI) coated steel, used with rigid insulation only
6. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
7. **FOAMED PLASTIC:** Max. 4" thick, 2.25 pcf density 20 psf compressive strength rigid closed cell polyisocyanurate core fiberglass faced insulation.
8. **SUBSTRUCTURE (LINER):** No. 22 MSG (Min. yield strength 33,000 PSI) coated steel with a minimum $^{15}/_{16}$" depth and a maximum pitch of 7.2 in.
9. **PURLINS:** (Not shown) Cold formed steel sections or structural steel components. Minimum gauge and yield strength to be dependent on design requirements.

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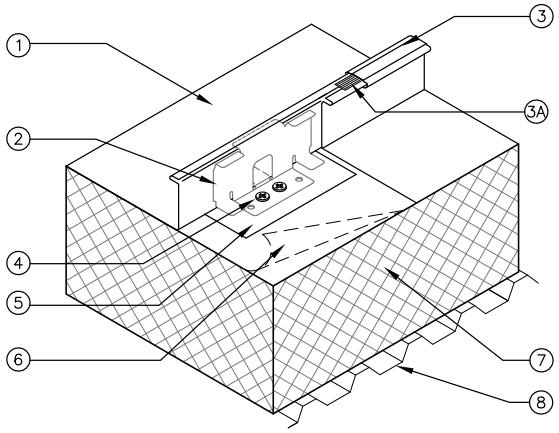
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 268A - Aluminum

**BERRIDGE ALUMINUM TEE-LOCK PANEL WITH INDIVIDUAL STAINLESS STEEL TEE-LOCK CLIPS THROUGH 4" OF RIGID BOARD AND INTO 22 GAUGE STRUCTURAL METAL DECK**




1. **BERRIDGE TEE-LOCK PANEL:** 0.032" coated Aluminum, 18" wide, 2 ⅜" high, continuous over two or more spans. Floating end laps to occur over purlins with panels overlapped 8". End lap to begin 3" from purlin web and extend across purlin flange.
2. **BERRIDGE TEE-LOCK CLIPS:** No. 16 MSG (Min. yield strength 50,000 PSI) stainless steel, 6" long by 2.718" high. Base to have four 0.281" diameter guide holes to accommodate screw fasteners. Clips spaced 48" on center at every side lap.
3. **BERRIDGE TEE-LOCK SEAM CAP:** Nominal 1" wide x ½" deep fabricated from 0.032" coated Aluminum. Cap continuously seamed over panel seams using an electric seaming tool.
   a. An optional vinyl weatherseal may be used in Seam Cap
4. **FASTENERS (SCREWS):** # 12 self-tapping, hex head, steel screws without washers or ¼-13 with No. 3 Phillips head deck screw. Two fasteners per clip.
5. **CLIP BEARING PLATE:** 6" x 6" No. 22 MSG (Min. yield strength 40,000 PSI) coated steel, used with rigid insulation only
6. **FELT PAPER:** Two ply, No. 30 lb. per 100 sq. ft.
7. **FOAMED PLASTIC:** Max. 4" thick, 2.25 pcf density 20 psf compressive strength rigid closed cell polyisocyanurate core fiberglass faced insulation.
8. **SUBSTRUCTURE (LINER):** No. 22 MSG (Min. yield strength 33,000 PSI) coated steel with a minimum $^{15}/_{16}$" depth and a maximum pitch of 7.2 in.
9. **PURLINS:** (Not shown) Cold formed steel sections or structural steel components. Minimum gauge and yield strength to be dependent on design requirements.

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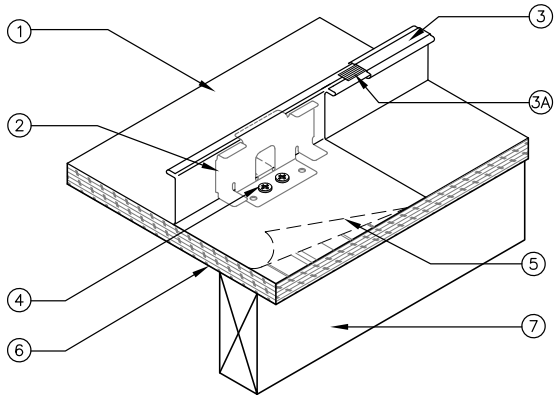
## CONSTRUCTION NO. 268B - Galvalume®

**BERRIDGE TEE-LOCK PANEL WITH INDIVIDUAL TEE-LOCK CLIPS OVER 19/32" PLYWOOD SHEATHING**




1. **BERRIDGE TEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18" wide, 2.375" high, continuous over three or more spans with no end laps.
2. **BERRIDGE TEE-LOCK CLIPS:** No. 16 MSG (Min. yield strength 50,000 PSI) coated steel, 6" long by 2.718" high. Base to have four 0.281" diameter guide holes to accommodate screw fasteners. Clips spaced 24" on center at every side lap.
3. **BERRIDGE TEE-LOCK SEAM CAP:** Nominal 1" wide x ½" deep fabricated from No. 24 MSG (40,000 PSI) coated steel. Cap continuously seamed over panel seams using an electric seaming tool.
   a. An optional vinyl weatherseal may be used in Seam Cap
4. **FASTENERS (SCREWS):** #14x1" Type A steel screw without washer or #12-11 low profile #3 square drive wood screw. Two fasteners per clip
5. **FELT PAPER:** Two ply, No. 30 lb per 100 sq. ft.
6. **SUBSTRUCTURE (PLYWOOD):** Nominal $^{19}/_{32}$" thick plywood 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
7. **SUPPORTS:** Spaced max. 24" on center. May be one of the following:
   a. Nom 2 x 6", 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 x 4" upper chord of the same grade as item a
   c. No. 22 MSG min. (Min. yield strength 3,000 PSI) cold formed coated steel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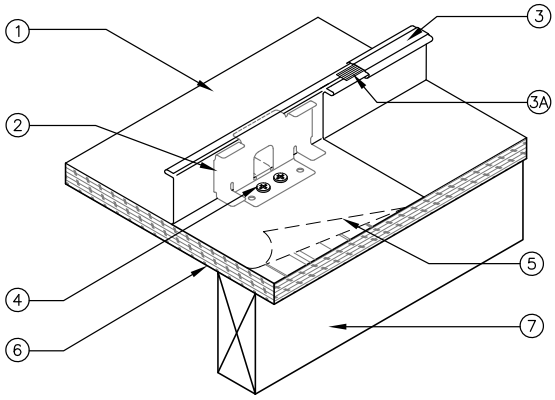
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 268B - Aluminum

**BERRIDGE ALUMINUM TEE-LOCK PANEL WITH INDIVIDUAL STAINLESS STEEL TEE-LOCK CLIPS OVER 19/32" PLYWOOD SHEATHING**




1. **BERRIDGE TEE-LOCK PANEL:** 0.032" coated Aluminum, 18" wide, 2.375" high, continuous over three or more spans with no end laps.
2. **BERRIDGE TEE-LOCK CLIPS:** No. 16 MSG (Min. yield strength 50,000 PSI) stainless steel, 6" long by 2.718" high. Base to have four 0.281" diameter guide holes to accommodate screw fasteners. Clips spaced 24" on center at every side lap.
3. **BERRIDGE TEE-LOCK SEAM CAP:** Nominal 1" wide x ½" deep fabricated from 0.032" coated aluminum. Cap continuously seamed over panel seams using an electric seaming tool.
   **a.** An optional vinyl weatherseal may be used in Seam Cap
4. **FASTENERS (SCREWS):** #14x1" Type A steel screw without washer or #12-11 low profile #3 square drive wood screw. Two fasteners per clip
5. **FELT PAPER: Two ply, No. 30 lb per 100 sq. ft.**
6. **SUBSTRUCTURE (PLYWOOD):** Nominal $^{19}/_{32}$" thick plywood 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
7. **SUPPORTS:** Spaced max. 24" on center. May be one of the following:
   **a.** Nom 2 x 6", 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 x 4" upper chord of the same grade as item a
   **c.** No. 22 MSG min. (Min. yield strength 3,000 PSI) cold formed coated steel

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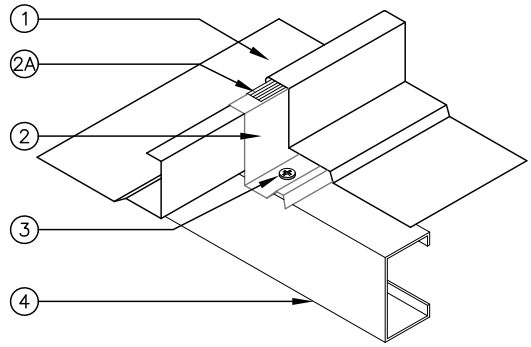
## CONSTRUCTION NO. 312 - Galvalume®

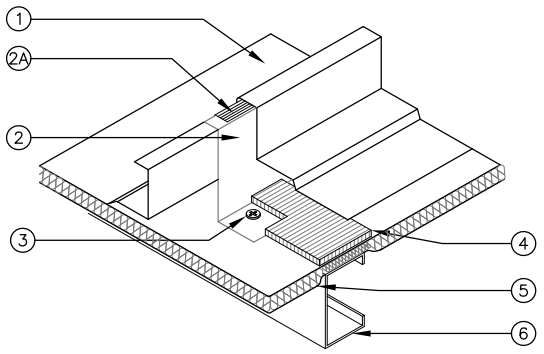
**BERRIDGE ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB OVER OPEN PURLINS (NO INSULATION)**




1. **BERRIDGE ZEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16" wide, 2" high panel continuous over 2 or more spans without endlaps. Adjacent panels are seamed together along side joints using an electric seamer tool.
2. **BERRIDGE CONTINUOUS ZEE-RIB:** One-piece, 2" high, assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Zee-Rib located at each panel side joint, continuous and equal to length of Berridge Zee-Lock Panels (Item 1).
   **a.** Vinyl weatherseal (U.S. Patent 5134825) must be used at panel side joints
3. **FASTENERS (SCREWS):** #12 x 1" Self-Drilling, Self-Tapping steel screws. Two fasteners per clip at each purlin location.
4. **PURLINS:** No. 16 MSG (Min. yield strength 50,000 PSI), 5'0 on center Maximum spacing.

## *ALTERNATE*
## CONSTRUCTION NO. 312 - Galvalume®

**BERRIDGE ZEE-LOCK WITH CONTINUOUS ZEE-RIB THROUGH 6" BLANKET INSULATION & 1" THERMAL BLOCK AND INTO OPEN PURLINS**




1. **BERRIDGE ZEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16" wide, 2" high panel continuous over 2 or more spans without endlaps. Adjacent panels are seamed together along side joints using an electric seamer tool.
2. **BERRIDGE CONTINUOUS ZEE-RIB:** One-piece, 3" high, assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Zee-Rib located at each panel side joint, continuous and equal to length of Berridge Zee-Lock Panels (Item 1). To be used in conjunction with thermal block only (Item #4)
   **a.** Vinyl weatherseal (U.S. Patent 5134825) must be used at panel side joints
3. **FASTENERS (SCREWS):** #12 x 1" Self-Drilling, Self-Tapping steel screws. Two fasteners per clip at each purlin location.
4. **THERMAL BLOCKS:** (Optional) 3" x 1" Polystyrene Foam blocks cut to fit between panel clips
5. **INSULATION:** (Optional) 6" Vinyl Faced compressible insulation.
6. **PURLINS:** No. 16 MSG (Min. yield strength 50,000 PSI), 5'0 on center Maximum spacing.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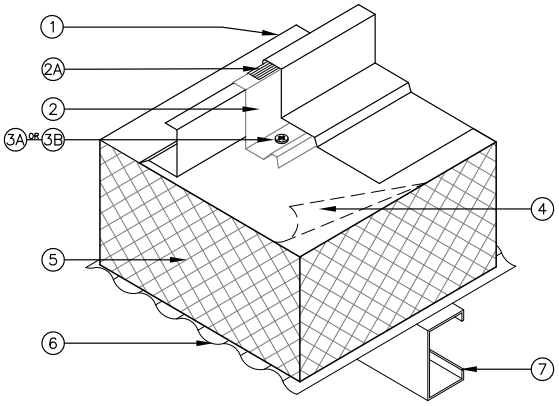
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 335 - Galvalume®

**BERRIDGE ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB THROUGH 4" OF RIGID BOARD AND INTO 24 GAUGE STRUCTURAL METAL DECK**




1. **BERRIDGE ZEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16" wide, 2" high panel continuous over 2 or more spans without endlaps. Adjacent panels are seamed together alongside joints using an electric seamer tool.
2. **BERRIDGE CONTINUOUS ZEE-RIB:** One-piece assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Zee-Rib located at each panel side joint, continuous and equal to length of Berridge Zee-Lock Panels (Item 1).
   a. Optional extruded vinyl weatherseal (U.S. Patent 5134825) may be used at panel side joints
3. **FASTENERS (SCREWS):**
   a. **For Connection of Item #2 to Item #6:** #12 self-drilling steel screw through rigid board and connected to metal deck at 18" on center. Fastener length to be adjusted to account for thickness of rigid insulation and liner panel with ¾" minimum penetration into metal deck.
   b. **For Connection of Item #2 to Item #7:** #12 self-drilling steel screw per clip at each purlin location. Fastener length to be adjusted to account for thickness of rigid insulation, liner panel, and purlin with ¾" minimum penetration into the purlin.
   c. **For Connection of Item #6 to Item #7 (Not Shown):** #10 x ¾" fastener spaced 5 ½" on center. Fasteners at side lap to be spaced 8" on center.
4. **FELT PAPER:** Two ply, No. 30 lb per 100 sq. ft.
5. **INSULATION:** Max. 4" thick, 2.25 pcf density 20 psf compressive strength rigid closed cell polyisocyanurate core fiberglass faced insulation.
6. **SUBSTRUCTURE (LINER):** No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Corrugation height to be minimum of ¾". Endlaps to occur over purlins with panels overlapped minimum 4".
7. **PURLINS:** 16 MSG (Min. 50,000 PSI) coated steel. Spacing to be:
   a. 5'0 on center when Item #2 is connected to Item #7
   b. 4'0 on center when Item #2 is connected to Item #6

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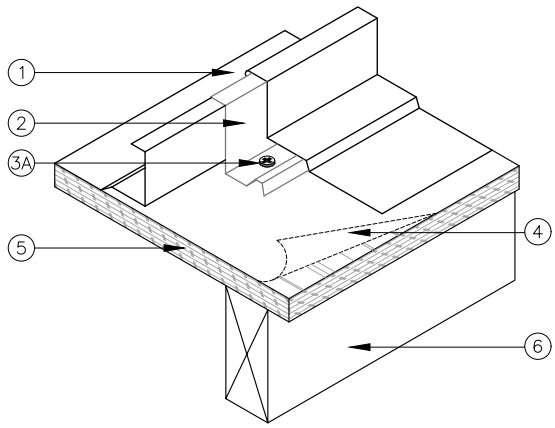
## CONSTRUCTION NO. 403 - Galvalume®

**BERRIDGE ZEE-LOCK PANEL WITH INDIVIDUAL CLIPS OVER 5/8'' PLYWOOD**




1. **BERRIDGE ZEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16" wide, 2" high panel continuous over 2 or more spans without endlaps. An optional extruded vinyl weatherseal (U.S. Patent 5134825) may be used at panel side joints. Adjacent panels are seamed together alongside joints using an electric seamer tool.
2. **BERRIDGE ZEE-CLIP:** One-piece, 2" high and 3" long, assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Zee-Clip located 36" on center at each panel side joints.
3. **FASTENERS (SCREWS):**
   a. **For Connection of Item #2 to Item #5:** #10 x 1" long pan head steel screws. Two per clip
   b. **For Connection of Item #5 to Item #6 (Not Shown):** #8 x 1 ½" long pan head wood screw spaced 12" on center at plywood to joist connection and at plywood ends.
4. **FELT PAPER:** Two ply, No. 30 lb per 100 sq. ft.
5. **SUBSTRUCTURE (PLYWOOD):** Nominal 5/8" thick, exposure sheathing span C-D 40/20 plywood.
6. **JOISTS:** Nominal 2" x 4" at maximum 2'0" on center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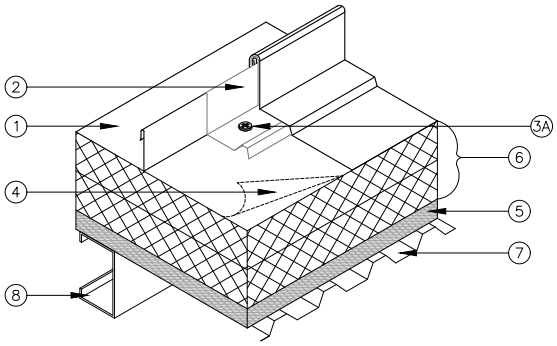
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 608 - Galvalume®

**BERRIDGE DOUBLE-LOCK ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB THROUGH 4" OF RIGID BOARD AND INTO 24 GAUGE STRUCTURAL METAL DECK**




1. **BERRIDGE DOUBLE-LOCK ZEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16" wide, 2" high panel continuous over 2 or more spans without endlaps. Adjacent panels are seamed together alongside joints using an electric seamer tool.
2. **BERRIDGE CONTINUOUS ZEE-RIB:** One-piece assembly fabricated from No. 24 MSG (Min. yield strength 40,000 PSI) coated steel. Zee-Rib located at each panel side joint, continuous and equal to length of Berridge Zee-Lock Panels (Item 1).
3. **FASTENERS (SCREWS):**
   a. **For Connection of Item #2 to Item #7:** #14 self-drilling steel screw through Densdeck and rigid board and connected to metal deck at 8" on center. Fastener length to be adjusted to account for thickness of rigid insulation and liner panel with ¾" minimum penetration into metal deck.
   b. **For Connection of Item #7 to Item #8 (Not Shown):** #12-14 self-drilling fastener spaced 5 ½" on center. Panel sidelaps to be connected using (1) #8 x ⅝" modified truss-head fastener at 18" on center. Fasteners at side lap to be spaced 8" on center.
4. **FELT PAPER:** Two ply, No. 30 lb per 100 sq. ft.
5. **GYPSUM BOARD:** Mininum ½" designated Georgia-Pacific Densdeck. Opposite side edges have a tongue and groove configuration. Butt end joints to be staggered and occur over steel deck crests.
6. **INSULATION:** Max. 4" thick, 2.25 pcf density 20 psf compressive strength rigid closed cell polyisocyanurate core fiberglass faced insulation.
7. **SUBSTRUCTURE (LINER):** No. 22 MSG (Min. yield strength 40,000 PSI) coated steel. Corrugation height to be minimum of ¾". Endlaps to occur over purlins with panels overlapped minimum 4".
8. **PURLINS:** 12 MSG (Min. 50,000 PSI) coated steel. Spacing to be 1'6" on center with purlins pre-drilled at metal deck and purlin intersection.

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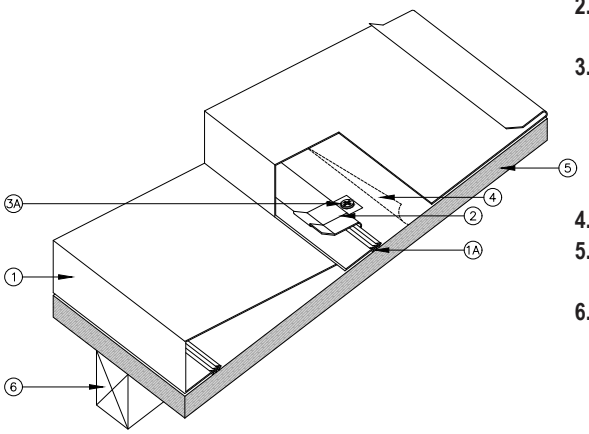
## CONSTRUCTION NO. 405

**BERRIDGE BERMUDA ROOF PANEL OVER 5/8" PLYWOOD**




1. **BERRIDGE BERMUDA PANEL:** No. 24 Ga. (Min. yield strength 40,000 PSI) coated steel, 11" wide x 1" high. Panel continuous without end laps.
   a. Optional extruded vinyl weatherseal may be used at panel joints
2. **BERMUDA PANEL CLIPS:** One piece, fabricated from 24 Ga. (Min. yield strength 40,000 PSI) coated steel. Bermuda panel clip located 24" on center at each panel lap
3. **FASTENERS:**
   a. **For Connection of Item #2 to Item #5:** #10 x 1" pancake head screw steel screw. One screw per clip.
   b. **For Connection of Item #5 to Item #6 (Not Shown):** #8 x 1 ½" pan head wood screw spaced 12" on center at plywood joists connection and at plywood ends
4. **FELT PAPER:** Two ply, No. 30 lb per 100 sq. ft., laid horizontally eave to ridge.
5. **SUBSTRUCTURE (PLYWOOD):** Nominal ⅝" thick, sheathing span C-D 40/20 Plywood
6. **JOISTS:** Nominal 2 x 4" at maximum 2'0" on center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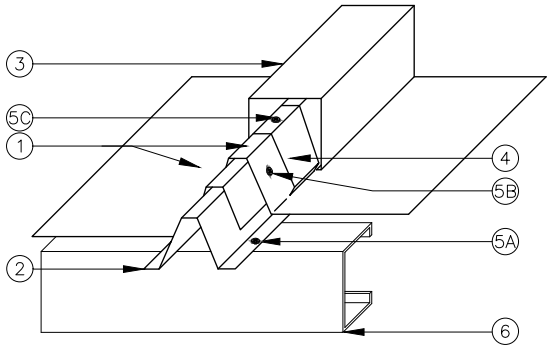
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 262

**BERRIDGE BATTEN SEAM PANEL SYSTEM WITH CONTINUOUS INNER RIB INTO OPEN PURLINS (NO INSULATION)**




1. **BERRIDGE DEEP VEE PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) coated steel, 16" wide, 1 ½" high panel continuous over two or more spans without endlaps.
2. **BERRIDGE CONTINUOUS INNER RIB:** One-piece assembly fabricated from 24 MSG (Min. yield strength 40,000 PSI) coated steel. Inner Rib located at each panel side joint, continuous and equal to length of Berridge Deep Vee Panels (Item #1).
3. **BATTEN CAP:** Located at each panel side lap. Fabricated from 24 MSG (Min. yield strength 40,000 PSI) coated steel formed to snap over batten clips (Item #4)
4. **BATTEN CLIP:** Fabricated from 24 MSG (Min. yield strength 40,000 PSI) coated steel. Spaced 20" on center and located at each panel rib.
5. **FASTENERS (SCREWS):**
   a. **For Connection of Item #2 to Item #6:** #10 x 1" self-drilling, self-tapping fastener. Two fasteners per clip at each purlin location.
   b. **For Connection of Item #1 to Item #2:** #10 x 1" self-drilling, self-tapping fastener spaced 12" on center and staggered to either side of rib.
   c. **For Connection of Item #4 to Item #1:** #10 x 1" self-drilling, self-tapping fastener. One fastener per clip.
6. **PURLINS:** No. 16 MSG (Min. yield strength 50,000 PSI), spaced 5'0 on center maximum

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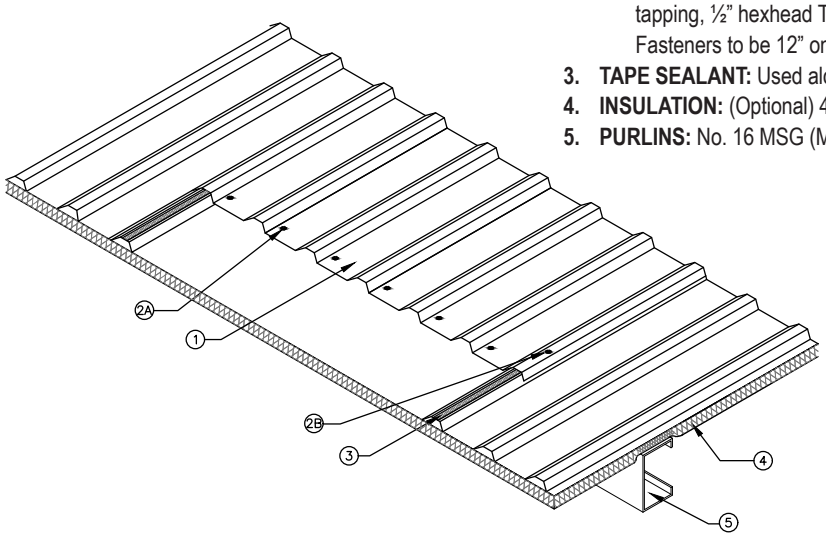
## CONSTRUCTION NO. 39

**BERRIDGE "M" PANEL THROUGH 4" BLANKET INSULATION INTO OPEN PURLINS**




1. **BERRIDGE "M" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, ¾" high panel continuous over two or more spans. Endlaps to occur over purlins with panels overlapped 6" with lap beginning 1" from edge of purlin flange and extending across the purlin. A line of tape sealant (Item 3) may be used at panel side and end laps.
2. **FASTENERS (SCREWS):**
   a. **For Connection of Item #1 to Item #5:** #12-14 self-drilling, self-tapping, ½" hexhead Type B steel or stainless steel screw with neoprene washer. Fasteners to be at panel and purlin intersection and adjacent to every major rib.
   b. **For Connection of Item #1 to Item #1 (Panel Lap):** #12-14 self-drilling, self-tapping, ½" hexhead Type B steel or stainless steel screw with neoprene washer. Fasteners to be 12" on center.
3. **TAPE SEALANT:** Used along panel side laps and endlaps for watertightness
4. **INSULATION:** (Optional) 4" Vinyl Faced compressible insulation.
5. **PURLINS:** No. 16 MSG (Min. yield strength 55,000 PSI), maximum 5'0 spacing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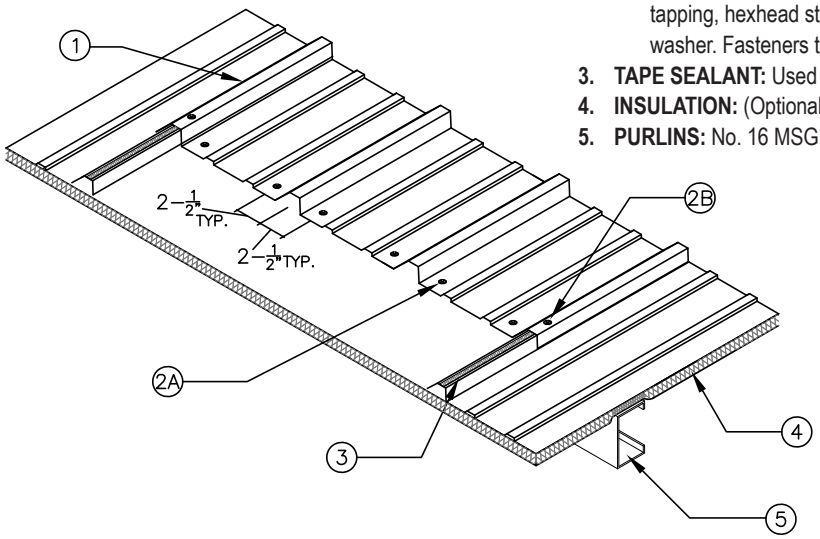
## CONSTRUCTION NO. 161

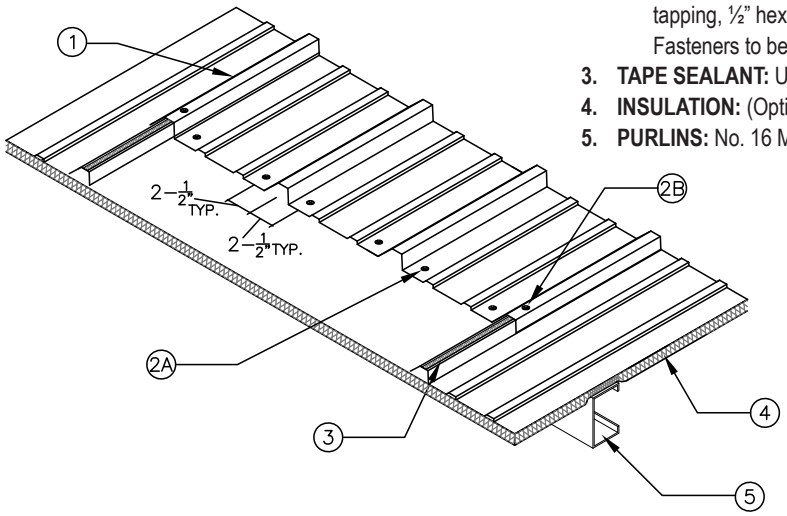
**BERRIDGE "R" PANEL THROUGH 6" BLANKET INSULATION INTO OPEN PURLINS**




1. **BERRIDGE "R" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, 1 ¼" high rib panel continuous over two or more spans. Endlaps to occur over purlins with panels overlapped 3" minimum, 6" maximum with lap centered over purlin web. A line of tape sealant (Item 3) may be used at panel side and end laps.
2. **FASTENERS (SCREWS):**
   a. **For Connection of Item #1 to Item #5:** #12-14 self-drilling, self-tapping, hexhead steel screw with ⅝" OD formed steel washer and neoprene washer. Fasteners to be at panel and purlin intersection and adjacent to every major rib.
   b. **For Connection of Item #1 to Item #1 (Panel Lap):** #12-14 self-drilling, self-tapping, hexhead steel screw with ⅝" OD formed steel washer and neoprene washer. Fasteners to be 20" on center.
3. **TAPE SEALANT:** Used along panel side laps and endlaps for watertightness
4. **INSULATION:** (Optional) 6" Vinyl Faced compressible insulation.
5. **PURLINS:** No. 16 MSG (Min. yield strength 50,000 PSI), maximum 5'0 spacing

## CONSTRUCTION NO. 30

**BERRIDGE "R" PANEL THROUGH 4" BLANKET INSULATION INTO OPEN PURLINS**




1. **BERRIDGE "R" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, 1 ¼" high rib panel continuous over two or more spans. Endlaps to occur over purlins with panels overlapped 3" minimum, 6" maximum with lap beginning even with purlin web and extending across purlin flange. A line of tape sealant (Item 3) may be used at panel side and end laps.
2. **FASTENERS (SCREWS):**
   a. **For Connection of Item #1 to Item #5:** #12-14 self-drilling, self-tapping, ½" hexhead Type B steel or stainless steel screw with neoprene washer. Fasteners to be at panel and purlin intersection and have a 4-8-4-8 pattern located 2" from the center line on both sides of each major rib.
   b. **For Connection of Item #1 to Item #1 (Panel Lap):** #12-14 self-drilling, self-tapping, ½" hexhead Type B steel or stainless steel screw with neoprene washer. Fasteners to be 20" on center.
3. **TAPE SEALANT:** Used along panel side laps and endlaps for watertightness
4. **INSULATION:** (Optional) 4" Vinyl Faced compressible insulation
5. **PURLINS:** No. 16 MSG (Min. yield strength 50,000 PSI), maximum 5'0 spacing

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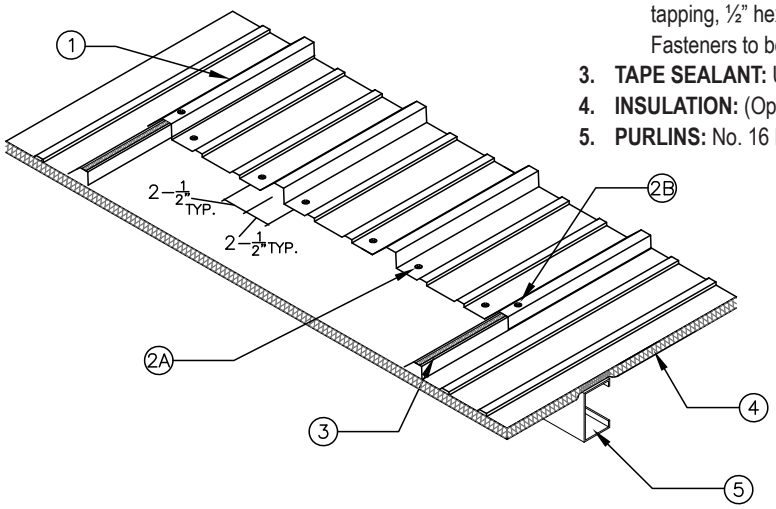
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 79
**BERRIDGE "R" PANEL THROUGH 4" BLANKET INSULATION INTO OPEN PURLINS**




1. **BERRIDGE "R" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, 1 ¼" high rib panel continuous over two or more spans. Endlaps to occur over purlins with panels overlapped 3" minimum, 6" maximum with lap beginning even with purlin web and extending across purlin flange. A line of tape sealant (Item 3) may be used at panel side and end laps.
2. **FASTENERS (SCREWS):**
   a. **For Connection of Item #1 to Item #5:** #12-14 self-drilling, self-tapping, ½" hexhead Type B steel or stainless steel screw with neoprene washer. Fasteners to be at panel and purlin intersection and 3" from the center line on both sides of each major rib.
   b. **For Connection of Item #1 to Item #1 (Panel Lap):** #12-14 self-drilling, self-tapping, ½" hexhead Type B steel or stainless steel screw with neoprene washer. Fasteners to be 20" on center.
3. **TAPE SEALANT:** Used along panel side laps and endlaps for watertightness
4. **INSULATION:** (Optional) 4" Vinyl Faced compressible insulation
5. **PURLINS:** No. 16 MSG (Min. yield strength 50,000 PSI), maximum 5'0 spacing

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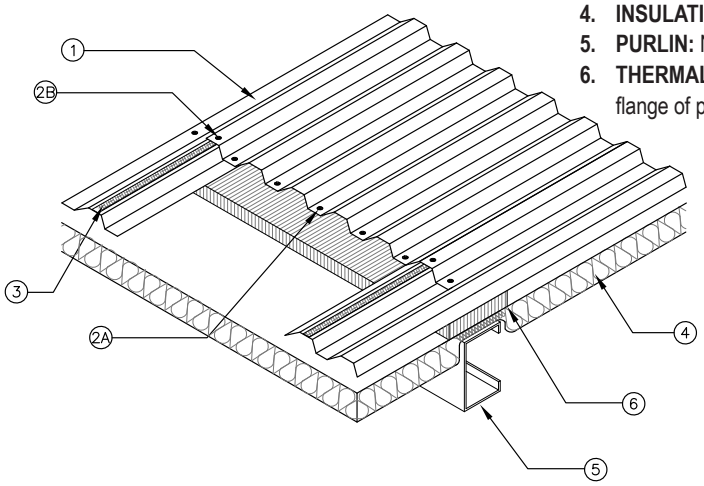
## CONSTRUCTION NO. 244 (WITH THERMAL BLOCKS)
**BERRIDGE DEEP DECK PANEL THROUGH 4" BLANKET INSULATION INTO OPEN PURLINS**




1. **BERRIDGE DEEP DECK PANEL:** No. 24 MSF (Min. yield strength 40,000 PSI) coated steel, 36" wide, 1 ½" high rib panel continuous over two or more spans. End laps to occur over purlins with panels overlapped a min. of 4" with lap centered over purlin web. A bead of sealant may be used at panel end and side laps.
2. **FASTENERS (SCREWS):**
   a. **For Connection of Item #1 to Item #5:** #12-14 self-drilling, self-tapping, hexhead steel screw with ⅝" OD formed steel washer and neoprene washer. Fasteners to be at panel and purlin intersection and adjacent to every major rib.
   b. **For Connection of Item #1 to Item #1 (Panel Lap):** #12-14 self-drilling, self-tapping, hexhead steel screw with ½" OD formed steel washer and neoprene washer. Fasteners to be 20" on center.
3. **TAPE SEALANT:** Used along panel side laps and endlaps for watertightness
4. **INSULATION:** (Optional) 4" Vinyl Faced compressible insulation
5. **PURLIN:** No. 16 MSG (Min. yield strength 50,000 PSI), maximum 5'0 spacing
6. **THERMAL BLOCK:** (Optional) 2 x 4" Polystyrene foam blocks placed along top flange of purlin between roof panels and insulation.


**BERRIDGE MANUFACTURING COMPANY**
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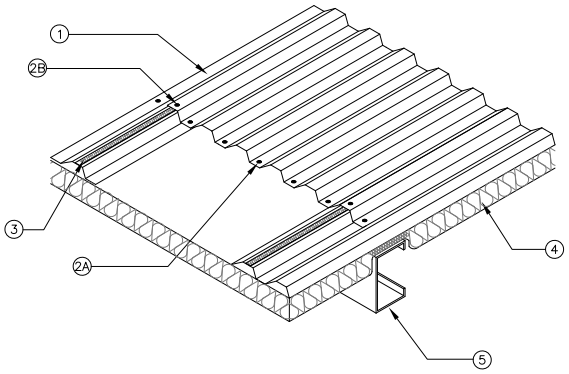
# UL 580 CLASS 90 RATED PRODUCT ASSEMBLIES

## CONSTRUCTION NO. 244
## (WITHOUT THERMAL BLOCKS)
**BERRIDGE DEEP DECK PANEL THROUGH 4" BLANKET INSULATION INTO OPEN PURLINS**




1. **BERRIDGE DEEP DECK PANEL:** No. 24 MSF (Min. yield strength 40,000 PSI) coated steel, 36" wide, 1 ½" high rib panel continuous over two or more spans. End laps to occur over purlins with panels overlapped a min. of 4" with lap centered over purlin web. A bead of sealant may be used at panel end and side laps.
2. **FASTENERS (SCREWS):**
   a. **For Connection of Item #1 to Item #5:** #14 x ¾" self-drilling, self-tapping, hexhead steel screw with ⅝" OD formed steel washer and neoprene washer. Fasteners to be at panel and purlin intersection and adjacent to every major rib.
   b. **For Connection of Item #1 to Item #1 (Panel Lap):** #12-14 self-drilling, self-tapping, hexhead steel screw with ½" OD formed steel washer and neoprene washer. Fasteners to be 20" on center.
3. **TAPE SEALANT:** Used along panel side laps and endlaps for watertightness
4. **INSULATION:** (Optional) 4" Vinyl Faced compressible insulation
5. **PURLIN:** No. 16 MSG (Min. yield strength 50,000 PSI), maximum 5'0 spacing

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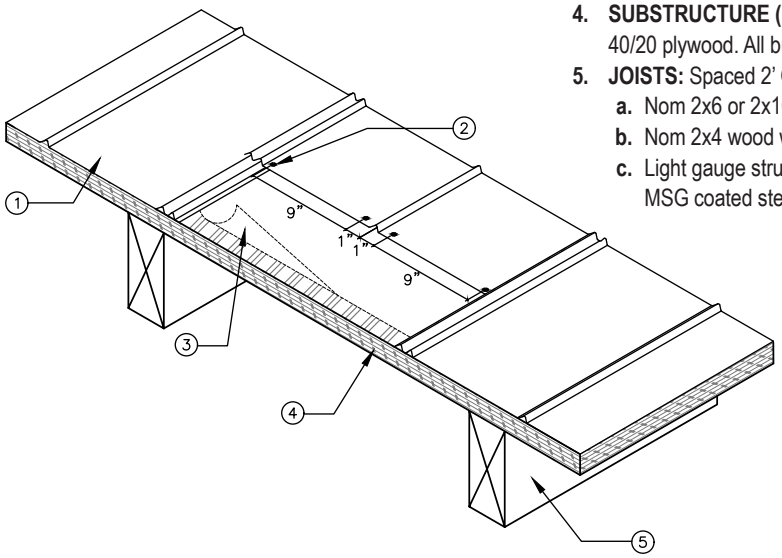
## CONSTRUCTION NO. 453
**BERRIDGE DOUBLE RIB PANEL OVER 5/8" PLYWOOD**




1. **BERRIDGE DOUBLE RIB PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) coated steel, 24" wide, ½" high rib panel continuous over two or more spans. A bead of sealant may be used at panel sidelaps.
2. **FASTENERS (SCREWS):**
   a. **For Connection of Item #1 to Item #4:** #14-10x 1 ½" Type A, hex head with separate ⅝" OD steel washer and a bonded neoprene washer. Fastener spacing to be 36" along the length of the panel and have a 2-9-2-9 pattern across the width of the panel.
   b. **For Connection of Item #4 to Item #5 (Not Shown):** #6 x 1 7/8" bugle head screw for wood joists or #12 x 1 ⅝" Phillips head screw for steel joists. Fasteners spaced 6" on center at plywood edges and 12" on center at intermediate supports when connecting to wood joists.
3. **FELT PAPER:** Two ply, No. 30 lb per 100 sq. ft.
4. **SUBSTRUCTURE (PLYWOOD):** Nominal ⅝" thick, exposure sheathing span C-D, 40/20 plywood. All butt joints to be sealed against leakage by using tape and/or caulk
5. **JOISTS:** Spaced 2' O.C. May be one of the following
   a. Nom 2x6 or 2x10 wood joists No. 2 or better
   b. Nom 2x4 wood when used on top chord of wood truss, No. 2 or better
   c. Light gauge structural steel with be member against the plywood to be min. 22 MSG coated steel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