

BERRIDGE

MANUFACTURING COMPANY

ARCHITECTURAL METAL ROOF AND WALL SYSTEMS

- **DESIGN GUIDE**
- **COMMON INSTALLATION DETAILS**
- **STANDING SEAM METAL ROOF SYSTEMS**
- **TILE, SHINGLES & OTHER ROOF SYSTEMS**
- **FASCIA, WALL & SOFFIT SYSTEMS**
- **EXPOSED FASTENER PANELS**
- **VANTAGE POINT RETROFIT SYSTEM**
- **ARCHITECTURAL PRIVACY FENCE**
- **LOAD CHARTS**

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The background of the page is filled with various architectural drawings in a light grey tone. These drawings show cross-sections of roof structures, including details of roof-to-wall connections, roof-to-roof intersections, and roof-to-floor connections. The drawings use solid lines for visible components and dashed lines for hidden or internal parts. Some drawings include dimension lines and arrows pointing to specific features.

THE BERRIDGE

ARCHITECTURAL BINDER



BERRIDGE
MANUFACTURING COMPANY

CORPORATE HEADQUARTERS

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P. Fence

Vantage Point

Load Charts



SECTION 1

DESIGN GUIDE

- **PRODUCT SPECIFICATIONS**
- **GENERAL DESIGN INFORMATION**
- **LEED® INFORMATION**
- **UL, ASTM & FM TESTING**
- **FLORIDA APPROVALS & MIAMI-DADE NOA's**
- **FINISHES WARRANTIES**
- **WATERTIGHTNESS WARRANTY PROGRAM**

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PRODUCT SPECIFICATIONS

MANUFACTURER

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PREFORMED METAL ROOFING

SECTION 07610

FORMED METAL PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preformed, prefinished metal roofing and flashings.
- B. Miscellaneous trim, flashing, closures, drip flashing, and accessories.
- C. Sealant.
- D. Fastening devices.

1.02 RELATED SECTIONS

- A. Section 05120: Structural Steel Framing.
- B. Section 05500: Miscellaneous Metal Fabrication.
- C. Section 06100: Rough Carpentry.
- D. Section 07631: Flashing and Sheet Metal Gutters.
- E. Section 07900: Sealants.

1.03 REFERENCES

- A. American Iron & Steel Institute (AISI) Specification for the Design of Cold formed Steel Structural Members.
- B. ASTM A-653-09 Steel Sheet, Zinc-Coated (Galvanized)
- C. ASTM 792-86 AZ-55 Aluminum Zinc Alloy Coated Steel (Galvalume Sheet Metal)
- D. ASTM E-1680
- E. ASTM E-1646
- F. ASTM E-1592
- G. Spec Data Sheet - Aluminum Zinc Alloy Coated Steel (Galvalume) Sheet Metal by Bethlehem Corp.
- H. SMACNA - Architectural Sheet Metal Manual.
- I. Building Materials Directory - Underwriter's Laboratories, Test Procedure 580 - UL-90.

1.04 ASSEMBLY DESCRIPTION

- A. The roofing assembly includes preformed sheet metal panels, related accessories, valleys, hips, ridges, eaves, corners, rakes, miscellaneous flashing and attaching devices.

1.05 SUBMITTALS

- A. Submit detailed shop drawings showing layout of panels, anchoring details, joint details, trim, flashing, and accessories. Show details of weatherproofing, terminations, and penetrations of metal work at 0'-3"= 1'-0" scale.
- B. Submit a sample of each type of roof panel, complete with factory finish.
- C. Submit results indicating compliance with minimum requirements of the following performance tests:

- 1. Air Infiltration - ASTM E 1680

- 2. Water Infiltration - ASTM E 1646
- 3. Wind Uplift - UL 90

- D. Submit calculations with registered engineer seal, verifying roof panel and attachment method resist wind pressures imposed on it pursuant to applicable building codes.

1.06 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in Architectural Sheet Metal Products with ten (10) years minimum experience.
- B. No product substitutions shall be permitted without meeting specifications.
- C. Substitutions shall be submitted 10 days prior to bid date and acceptance put forth in an addendum.
- D. No substitutions shall be made after the bid date.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Upon receipt of panels and other materials, installer shall examine the shipment for damage and completeness.
- B. Panels should be stored in a clean, dry place. One end should be elevated allowing moisture to run off.
- C. Panels with strippable film must not be stored in the open, exposed to the sun.
- D. Stack all materials to prevent damage and to allow adequate ventilation.

1.08 WARRANTY

- A. Paint finish shall have a twenty-year warranty against cracking, peeling and fading (not to exceed 5 N.B.S. units).
- B. Galvalume material shall have a twenty-year warranty against failure due to corrosion, rupture or perforation.
- C. Roofing Installer shall furnish guarantee covering watertightness of the roofing system for the period of two (2) years from the date of substantial completion.
- D. When required, Roofing Installer to furnish, Manufacturer's standard watertightness warranty; Roofing Installer to comply with Manufacturer's watertightness warranty program and submit to manufacturer all required documents. Watertightness warranty program to include roofing installation inspections which Roofing Installer shall participate.

PART 2 PRODUCT

2.01 ACCEPTABLE MANUFACTURERS

- A. Berridge Manufacturing Company, San Antonio, Texas.
- B. Substitutions shall fully comply with specified requirements.

2.02 SHEET MATERIALS

- A. Prefinished Metal shall be Aluminum-Zinc Alloy Coated (AZ-50 Galvalume®) Steel Sheet, 24-Gauge or 22-Gauge*, ASTM 792-08, Grade 40, yield strength 40 ksi min. or Aluminum coil-coated sheet, 0.032 or 0.040, ASTM B209.
- B. Finish shall be full strength Kynar 500® or Hylar 5000® Fluoropolymer coating applied by the manufacturer on a continuous coil coating line, with a top side dry film thickness of 0.75 ± 0.05 mil over 0.20 ± 0.05 mil prime coat, to provide a total dry film thickness of 0.95 ± 0.10 mil. Bottom side shall be coated with primer with a dry film thickness of 0.35 ± 0.05 mil. Finish shall conform to all tests for adhesion, flexibility, and longevity as specified by the Kynar 500® or Hylar 5000® finish supplier.

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PRODUCT SPECIFICATIONS

- C. Strippable film shall be applied to the top side of the prefinished metal to protect the the finish during fabrication, shipping and field handling. This strippable film **MUST** be removed immediately before installation.
- D. Unpainted metal shall be Aluminum-Zinc Alloy Coated (AZ-55 Acrylic Coated Galvalume®) Steel Sheet, 24-Gauge or 22 Gauge*, ASTM 792-08, Grade 40, yield strength 40 ksi min., with clear acrylic coating on both sides of material.
- E. Field protection must be provided by the contractor at the job site so stacked or coiled material is not exposed to weather and moisture.
- F. Flashing maybe factory fabricated or field fabricated. Unless otherwise specified all exposed adjacent flashing shall be of the same material and finish as panel system.

2.03 ACCESSORY MATERIALS

- A. Fasteners: For steel panels, use stainless-steel fastener for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior. For aluminum panels, use stainless-steel fasteners for all connections.
- B. Sealant: Sealant shall be an ultra low modulus, high performance, one-part, moisture curing silicone joint sealant. [Tremco Spectrum One] or [DOW 790] or [Pecora 890 NST] or [Duralink] or [Titebond Metal Roof Sealant] (Do not use a clear sealant or sealants which release a solvent or acid during curing). Verify approved sealant's with Manufacturer.

Sealant must be resistant to environmental conditions such as wind loading, wind driven rain, snow, sleet, acid rain, ozone, ultraviolet light and extreme temperature variations.

Features must include joint movement capabilities of +50% & -50% ASTM C-719, capable of taking expansion, compression, transverse and longitudinal movement, service temperature range -65°F to 200°F (-54°C to 149°C)

2.04 FABRICATION

- A. All exposed adjacent flashing shall be of the same material and finish as the roof panels.
- B. Hem all exposed edges of flashing on underside, 1/2 inch.

2.05 STANDING-SEAM PANELS (PICK APPROPRIATE STYLE)

A. BERRIDGE TEE-PANEL

- 1. Panels shall have 12 3/4" on-center seam spacing with a seam height of 1" and shall have no exposed fasteners.
- 2. Panels shall be [site-formed with the Berridge Model SS-14 Portable Roll Former in continuous lengths from eave to ridge] or [factory fabricated to 40' max].
- 3. Snap-on seams shall be 1" in height and shall contain the Berridge factory-applied Extruded Vinyl Weather Seal Insert (Patent No. 4641475) to prevent siphoning of moisture through the standing seam.
- 4. Concealed anchor clips shall be spaced as required to meet uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
- 5. When required, Panel assembly shall bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 296 (for galvalume and aluminum) and applicable Fire Ratings.
- 6. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage beyond allowable tolerances through the system when tested in accordance with ASTM E-1680 and E-1646.

B. BERRIDGE CURVED TEE-PANEL

- 1. Panels shall have 12 3/4" on-center seam spacing with a seam height of 1" and shall have no exposed fasteners.
- 2. [Panels shall be site-formed with the Berridge Model SS-14 Portable Roll Former in continuous lengths from eave to ridge] or [factory fabricated to 40' max]. (Factory curving of panel is not available.)
- 3. Snap-on seams shall be 1" in height and shall contain the Berridge factory-applied Extruded Vinyl Weather Seal Insert (Patent No. 4641475) to prevent siphoning of moisture through the standing seam.
- 4. Concealed anchor clips shall be spaced as required to meet uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
- 5. When required, Panel assembly shall bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 296 (for galvalume and aluminum) and applicable Fire Ratings.
- 6. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1680 and E-1646.

C. BERRIDGE COMPOUND CURVED TEE-PANEL (DOMES & COMPOUND CURVED CORNERS)

- 1. Equal panels of continuous length from top point to eave shall be hand cut by installer to fit domed or compound curved corner substrate, using template instructions from Berridge's Technical Manual and shall have no exposed fasteners. (Factory fabrication not available)
- 2. Panel legs of nominal 1" shall be site formed with Berridge SL-1 Portable roll former.
- 3. Snap-on seams of nominal 1" shall contain the Berridge factory-applied extruded vinyl weather seal insert (patent no. 4641475) to prevent siphoning of water through the standing seam.
- 4. Concealed anchor clips shall be spaced as required to meet wind uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
- 5. When required, panel assembly shall bear Underwriters Laboratories Label UL-90, pursuant to Construction No. 296 (for galvalume and aluminum), and applicable to Fire Ratings.
- 6. Certification shall be submitted based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E 1680 and E-1646.

D. BERRIDGE TAPERED TEE-PANEL

- 1. Equal panels of continuous length from top point/ridge to eave shall be hand cut by installer per base dimension of 12" to 20" established by architect based on circumference and shall have no exposed fasteners. (Factory fabrication not available)
- 2. Panel legs of nominal 1" shall be site formed with Berridge SL-24 Portable Roll Former.
- 3. Snap-on seams of nominal 1" shall contain the Berridge factory applied extruded vinyl weather seal insert (patent no. 4641475) to prevent siphoning of water through the standing seam.
- 4. Concealed anchor clips shall be spaced as required to meet uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
- 5. When required, panel assembly shall bear Underwriter's Laboratories Label UL-90, pursuant to Construction No. 296 (for galvalume and aluminum), and applicable Fire Ratings.
- 6. Certification shall be submitted based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E 1680 and E-1646.

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E. BERRIDGE HIGH SEAM TEE-PANEL

1. Panels shall have an 18 -1/4" on-center seam spacing with a seam height of [1"] or [1½"] and shall have no exposed fasteners.
2. [Panels shall be site-formed with the Berridge Model SS-1421 Portable Roll Former in continuous lengths from eave to ridge] or [factory fabricated to 40' max].
3. Snap-on seams shall be 1" in height and shall contain the Berridge factory-applied Extruded Vinyl Weather Seal Insert (Patent No. 4641475) to prevent siphoning of moisture through the standing seam.
4. Concealed anchor clips to be spaced as required to meet uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
5. When required, panel assembly to bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 297 or 475 for galvalume, 296 for a 1" seam in aluminum, and/or Fire Ratings.
6. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1680 and E-1646.

F. BERRIDGE CURVED HIGH SEAM TEE-PANEL

1. Panels shall have an 18 -1/4" on-center seam spacing with a seam height of [1"] or [1½"] and shall have no exposed fasteners.
2. [Panels shall be site-formed with the Berridge Model SS-1421 Portable Roll Former in continuous lengths from eave to ridge] or [factory fabricated to 40' max]. (Factory curving of panel is not available.)
3. Snap-on seams shall be 1" in height and shall contain the Berridge factory-applied Extruded Vinyl Weather Seal Insert (Patent No. 4641475) to prevent siphoning of moisture through the standing seam.
4. Concealed anchor clips to be spaced as required to meet uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
5. When required, panel assembly to bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 297 or 475 for galvalume, 296 for a 1" seam in aluminum, and/or Fire Ratings.
6. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1680 and E-1646.

G. BERRIDGE COMPOUND CURVED HIGH-SEAM TEE-PANEL (DOMES & COMPOUND CURVED CORNERS)

1. Equal panels of continuous length from top point to eave shall be hand cut by installer to fit domed or compound curved corner substrate, using template instructions from Berridge's Technical Manual and shall have no exposed fasteners. (Factory fabrication not available)
2. Panel legs of nominal 1" shall be site formed with Berridge SL-1 Portable roll former. (Compound Curves are not feasible for the 1.5" seam height.)
3. Snap-on seams of nominal 1" shall contain the Berridge factory-applied extruded vinyl weather seal insert (patent no. 4641475) to prevent siphoning of water through the standing seam.
4. Concealed anchor clips shall be spaced as required to meet wind uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
5. When required, panel assembly to bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 297 or 475 for galvalume, 296 for a 1" seam in aluminum, and/or Fire Ratings.
6. Certification shall be submitted based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E 1680 and E-1646.

H. BERRIDGE TAPERED HIGH-SEAM TEE-PANEL

1. Equal panels of continuous length from top point/ridge to eave shall be hand cut by installer per base dimension of 12" to 20" established by architect based on circumference and shall have no exposed fasteners. (Factory fabrication not available)
2. Panel legs of nominal 1" shall be site formed with Berridge SL-24 Portable Roll Former.
3. Snap-on seams of nominal 1" shall contain the Berridge factory applied extruded vinyl weather seal insert (patent no. 4641475) to prevent siphoning of water through the standing seam.
4. Concealed anchor clips shall be spaced as required to meet uplift loads (maximum of 24" on center for galvalume and 12" on center for aluminum).
5. When required, panel assembly to bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 297 or 475 for galvalume, 296 for a 1" seam in aluminum, and/or Fire Ratings.
6. Certification shall be submitted based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E 1680 and E-1646.

I. BERRIDGE CEE-LOCK PANEL

1. Panels shall have 1-½" high vertical legs, spaced 16-½" on center and shall have no exposed fasteners.
2. Standing seam to be of an interlocking, "snap-lock" design.
3. Panels shall be [site-formed with the Berridge Model CL-21 Portable Roll Former in continuous lengths from ridge to eave] or [factory-formed to maximum 40'.]
4. [Continuous Cee Rib to be 2-1/8" wide and 1-3/8" in height. Rib shall be connected to substrate at 20" on center maximum for galvalume to plywood and 16" on center maximum for galvalume to metal deck] or [Cee-Clips at 3'-0" on center maximum for galvalume and 20" on center maximum for aluminum.].
5. Optional Vinyl Weatherseal (U.S. Patent No. 4641475) to be inserted into the Cee-Lock panel female leg.
6. When required, Panel assembly to bear Underwriter's Laboratories Label UL90, pursuant to [Construction Number 334, 404, 474, or 381 for galvalume] or [Construction Number 690 or 689 for aluminum] and applicable Fire Ratings.
7. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1680 and E-1646.

J. BERRIDGE ZEE-LOCK PANEL

1. 2" high vertical legs shall be spaced at 16" on-center and shall have no exposed fasteners.
2. Panels shall be [site-formed with the Berridge Model SP-21-X Portable Roll Former in continuous lengths from ridge to eave] or [factory-formed to 40' max].
3. [Continuous Zee Rib shall be 1-3/8" wide and 2-1/8" in height. Rib shall be connected to purlins spaced 60" on center maximum for galvalume], [Continuous Zee Rib shall be 1-3/8" wide and 2-1/8" in height. Rib shall be connected to solid substrate spaced 18" on center maximum for galvalume] or [Zee Clips spaced at 3'0 on center maximum for galvalume].
4. Optional Vinyl Weatherseal (U.S. Patent 5134825) shall be factory-installed over Continuous Zee Rib.
5. Sidelap shall be mechanically seamed with a powered seamer.
6. When required, panel assembly to bear Underwriters Laboratories Label UL90 (available for galvalume substrate only), pursuant to [Construction No. 312 for open framing conditions, either uninsulated

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or with blanket insulation], [Construction No. 335 over metal deck sheathing with rigid board insulation] or [Const. No. 403 over plywood sheathing] and applicable Fire Ratings.

7. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1680 and E-1646.

K. BERRIDGE CURVED ZEE-LOCK PANEL

1. Panels shall have 16" on-center seam spacing with a seam height of 2".
2. Panels shall be [site-formed with the Berridge Model SP-21 Portable Roll Former in continuous lengths from eave to ridge] or [factory fabricated to 40' max]. Curving shall be performed with the Berridge Model ZC-21 Zee-Lock Curving machine to a minimum convex radius of 20'. Panels shall be convex radius only. (Factory curving of panel is not available.)
3. Seams shall be 2" in height and shall contain the Berridge factory-applied Extruded Vinyl Weather Seal Insert (Patent No. 5134825), to prevent siphoning of moisture through the standing seam.
4. [Continuous Zee Rib shall be 1-3/8" wide and 2-1/8" in height. Rib shall be connected to purlins spaced 60" on center maximum for galvalume], [Continuous Zee Rib shall be 1-3/8" wide and 2-1/8" in height. Rib shall be connected to solid substrate spaced 18" on center maximum for galvalume] or [Zee Clips spaced at 3'0 on center maximum for galvalume].
5. When required, panel assembly to bear Underwriters Laboratories Label UL90 (available for galvalume substrate only), pursuant to [Construction No. 312 for open framing conditions, either uninsulated or with blanket insulation], [Construction No. 335 over metal deck sheathing with rigid board insulation] or [Const. No. 403 over plywood sheathing] and applicable Fire Ratings.
6. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage beyond allowable tolerances through the system when tested in accordance with ASTM E 1680 and E 1646.

L. BERRIDGE ZEE-LOCK DOUBLE-LOCK PANEL

1. 2" high vertical legs shall be spaced at 16" on-center and shall have no exposed fasteners.
2. Panels shall be [site-formed with the Berridge Model SP-21-X Portable Roll Former in continuous lengths from ridge to eave] or [factory-formed to 40' max].
3. [Continuous Zee Rib shall be 1-3/8" wide and 2-1/8" in height. Rib shall be connected to purlins spaced 60" on center maximum for galvalume], [Continuous Zee Rib shall be 1-3/8" wide and 2-1/8" in height. Rib shall be connected to solid substrate spaced 16" on center maximum for galvalume], [Zee Clips spaced at 3'0 on center maximum for galvalume], [Floating 2-Piece Zee-Lock Clip spaced at 24" on center maximum to solid sheathing for galvalume or aluminum], or [Floating 2-Piece Zee-Lock Clip spaced at 24" on center maximum to purlins for galvalume].
4. Vinyl Weatherseal not available. Continuous Rib tests to ASTM E-1646 without vinyl.
5. Sidelap to be mechanically seamed with a powered double-lock seamer.
6. When required, panel assembly to bear Underwriters Laboratories Label UL90 (available for galvalume substrate only), pursuant to [Construction No. 312 for open framing conditions, either uninsulated or with blanket insulation], [Construction No. 335 over metal deck sheathing with rigid board insulation], [Construction No. 608 over Insulated Metal Deck], or [Const. No. 403 over plywood sheathing] and

applicable Fire Ratings. Also available: FM I-90 for open framing, FM 1-120 for connection to Metal Deck, or FM I-150 for connection to Metal Deck.

7. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1646 and E-1680.

L. BERRIDGE TEE-LOCK PANEL

1. 2 3/8" high vertical legs shall be spaced at 18" on-center and shall have no exposed fasteners.
2. Panels shall be factory-formed to 40' max.
3. [Tee-Lock Clips shall be 2.453" wide and 2.688" in height connected to pulins spaced 5'0 on center maximum for galvalume], [Tee-Lock Clips shall be 2.453" wide and 2.688" in height connected to metal deck sheathing spaced 3'0 on center maximum for galvalume or aluminum], or [Tee-Lock Clips shall be 2.453" wide and 2.688" in height connected to plywood sheathing spaced 2'0 on center maximum for galvalume],
4. Optional Vinyl Weatherseal to be inserted into the seam cap.
5. Sidelap to be mechanically seamed with a powered double-lock seamer.
6. When required, panel assembly to bear Underwriters Laboratories Label UL90 (for both galvalume and aluminum substrate), pursuant to [Construction No. 268 for open framing conditions, either uninsulated or with blanket insulation], [Construction No. 268A over metal deck sheathing with rigid board insulation], or [Const. No. 268B over plywood sheathing] and applicable Fire Ratings.
7. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1646 and E-1680.

2.06 TILE, SHINGLES, AND OTHER ROOF PANELS (PICK APPROPRIATE STYLE)

A. BERRIDGE BATTEN SEAM SYSTEM

1. Panels and Battens shall be spaced at 16" on-center.
2. Panels shall be [site-formed with the Berridge model BP-21 Portable Roll Former in continuous lengths from ridge to eave] or [factory fabricated to 40' max].
3. Snap-On Battens shall be 2" wide and 1 3/4" in height (nominal installed height of 2"). Battens shall be factory roll-formed.
4. Attachment to structural supports with 3-1/2" long galvanized screws through the hidden Batten Clip and the top crown of the Deep Vee Panel. Maximum spacing shall be 5'-0" on center for open span structural supports. Intermediate Batten Clips attached through the top crown of the Deep Vee Panel, 20" on center maximum with #10 x 3/4" TEK screws.
5. Attachment to solid sheathing shall be with 3-1/2" long ring shank galvanized roofing nails or fasteners through the hidden Batten Clip and the top crown of the Deep Vee Panel spaced 20" on center.
6. Two Batten Clips shall be used at the eaves and on both sides of the miter at change of slope.
7. When required, panel assembly (with inner rib) shall bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 262.

B. BERRIDGE SPANISH TILE SYSTEM

1. Deep Vee Panels to be used as a substrate support for the Spanish Tile shall be factory formed to 40' max. Seam spacing shall be 9" on center and shall have no exposed fasteners.
2. Prefinished interlocking barrel tiles shall be stamped, with an 8" by 16" exposure to the weather.

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PRODUCT SPECIFICATIONS

3. Tiles shall be attached to the top of the Deep Vee Panel with one number 8 TEK screw.
4. Eave closures shall be used at the eave with each row of Spanish Tile.
5. Attachment of the Deep Vee Panel shall be through the flat area adjacent to the overlapping rib with galvanized plated screws spaced [5'-0" on center maximum for open span structural supports] or [20" on center for solid sheathing]. Side laps of the Deep Vee Panel shall be stitched at the top of the crown with #8 TEK screws 20" on center.
6. Tiles shall be attached to the top of the crown on the Deep Vee panel with one #8 x 1/2" TEK screw.

C. BERRIDGE S-TILE PANEL

1. Panels shall have a stamped S-Tile design of non-combustible, 24-gauge steel with a Class A Fire Rating and shall have exposed fasteners.
2. Panel profile thickness shall be 1-1/2" with nominal coverage width of 32-11/16".
3. Panels shall be factory formed to 40' max.
4. Each panel shall have a purlin bearing leg and water drainage channel.
5. Panels shall be of an overlapping design with a line of tape sealant applied in the seam for watertightness on roof slopes of 3:12 or less.
6. Panels shall be fastened to substrate with exposed fasteners with metal backed neoprene washers with heads to match panel color.
7. Panel-to-panel and panel-to-purlin connections shall be with #12-14 fasteners [1" minimum for panel-to-purlin connections] or [3/4" minimum for panel-to-panel stitch connections].
8. Continuous inside foam closures at ridge, hip, eave and valley shall be in matching contour to the S-Tile profile.

E. BERRIDGE BERMUDA ROOF PANEL

1. Panels shall be [site-formed with the Berridge Model BP-14 Portable Roll Former in continuous lengths from rake to rake or hip to hip] or [factory formed to 40' max length] and shall have no exposed fasteners.
2. Berridge Vinyl Weatherseal strip (Patent No. 5134825) shall be used along male panel leg.
3. Panels shall have a plank spacing and exposure to the weather of 11".
4. Attachment to solid sheathing with concealed 1-1/4" long galvanized ring shank roofing nails or fasteners and anchor clips spaced at 20" on center.
5. Where required, panel assembly shall bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 405.

F. BERRIDGE VICTORIAN SHINGLES

1. Victorian Shingles shall have a stamped scalloped design. Each Shingle shall have 9" by 12" exposure to the weather.
2. Shingles to be of overlapping, Interlocking Design, fastened to solid substrate with concealed fasteners.
3. Shingles to be of non-combustible 24-Gauge Steel with Class A Fire Rating.

G. BERRIDGE CLASSIC SHINGLES

1. Classic Shingles shall have a stamped sculptured design. Each Shingle shall have 9" by 12" exposure to the weather.
2. Shingles to be of overlapping, Interlocking Design, fastened to solid substrate with hidden roofing nails.
3. Shingles to be of non-combustible 24-Gauge Steel with Class A Fire Rating.

H. BERRIDGE FLAT SEAM PANEL (For application over Curved Surfaces)

1. Panels shall be factory formed to 40' max and shall have no exposed fasteners.

2. Seam spacing shall be 8" on center.
3. Attachment to curved solid sheathing with concealed 1-1/4" long galvanized ring shank roofing nails or fasteners spaced at 20" on center.

2.07 FASCIA, WALL, AND SOFFIT PANELS (PICK APPROPRIATE STYLE)

A. BERRIDGE HR-16 WALL PANEL

1. Panel coverage width shall be 16", with a panel depth of 7/8".
2. Ribs to be spaced 4" on center.
3. Panels shall be of interlocking design with integrated fastening flange for concealed fasteners.
4. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1646 and E-1680.

B. BERRIDGE [HS-8] or [HS-12] WALL PANELS

1. Panel coverage width shall be [12"] or [8"], with a panel depth of 7/8".
2. Panels shall be of interlocking design with integrated fastening flange for concealed fasteners.
3. Standard stucco embossing.
4. Panel face shall be flat with a recess at panel interlocks.
5. For design alternatives, [HS-8] or [HS-12] panels may interlock with Berridge [HS-8], [HS-12], or [HR-16].

BERRIDGE HC-16 WALL PANELS

1. Panel coverage width shall be 16", with a panel depth of 7/8".
2. Panels shall be of interlocking design with integrated fastening flange for concealed fasteners.
3. Corrugation to be spaced 2-2/3" on center.
4. For design alternatives, HC-16 panels may interlock with Berridge [HS-8], [HS-12], or [HR-16].

C. BERRIDGE FLUSH SEAM PANEL

1. Panels shall be factory formed to 40' max and shall have no exposed fasteners.
2. Panels shall have flat, 3-7/8" wide, embossed texture face; 1/2" depth; interlocking male-female side lap; and utilize concealed fasteners.
3. Attachment to [metal supports with #8 x 1/2" TEKS screws] or [wood supports with 1-1/4" long galvanized ring shank roofing nails] at maximum spacing of 6'-0" on center or per local code requirement.

D. BERRIDGE B-6 PANEL

1. B-6 Panels shall be factory formed to 40' max and shall have no exposed fasteners.
2. Vee-groove spacing shall be 3" on center.
3. Panel shall have 6" exposure, 5/8" rib depth, with concealed fasteners and interlocking sidelap.
4. Attachment to [metal supports with #8 x 1/2" TEKS screws] or [wood supports with 1-1/4" long galvanized ring shank roofing nails] at maximum spacing of 6'-0" on center or per local code requirement, whichever is greater.

E. BERRIDGE VEE-PANEL

1. Panels shall have 12-3/4" exposure with 3/8" deep vee-grooves 4-1/4" o.c. with concealed fasteners and interlocking sidelap.
2. Panels shall be formed in continuous lengths for [wall] or [fascia] or [soffit] to 40' max length and shall have no exposed fasteners.

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PRODUCT SPECIFICATIONS

3. Attachment to metal supports [with #8 x 12" TEK screws at maximum spacing of 2'-0" on center] or [per local code], whichever is greater.
4. Optional Vented Vee-Panel shall have a Net Free Vent Area (NFVA) of 6.46 square inches per lineal foot of panel or 6.08 square inches per square foot of Vee-Panel.

NOTE: Berridge Manufacturing Company does not recommend vented products in applications subject to aggressive atmospheres, marine environments or high humidity due to the corrosive nature of these environments on raw edges of steel.

F. BERRIDGE [FW-1025] or [FW-12] PANEL

1. [FW-1025] or [FW-12] provides a [10 ¼"] or [12] coverage and a panel depth of 1 ½". Panel is available with optional vee grooves space at [3.4"] or [4"] o.c., optional stucco embossing, optional striations, or optional vented profile for soffit applications.
2. Panels shall be factory formed, 40' max. length.
3. Attachment to metal supports with #10 x 1/2" TEKS screws at maximum spacing of 5' - 0" on center or per local code, whichever is greater.
4. Optional Vented [FW-1025] or [FW-12] Panel shall provide 6.82 square inches of Net Free Vent Area (NFVA) per lineal foot of panel.

NOTE: Berridge Manufacturing Company does not recommend vented products in applications subject to aggressive atmospheres, marine environments or high humidity due to the corrosive nature of these environments on raw edges of steel.

G. BERRIDGE THIN-LINE PANEL

1. Panels shall have 3-5/8" exposure with concealed fasteners and interlocking sidelap with Channel Drain Interlock.
2. Panels shall be factory roll formed in continuous lengths up to 40" max and shall have no exposed fasteners.
3. Attachment to metal supports with #8 x 12" TEKS screws at maximum spacing of 2'-0" on center or per local code, whichever is greater.

H. BERRIDGE L - PANEL

1. Panels shall have 11-5/8" exposure with [smooth face] (or) [vee grooves], 1" deep, with concealed fasteners and interlocking sidelap.
2. Panels shall be factory roll formed in continuous lengths up to 40' max and shall have no exposed fasteners.
3. Attachment to metal supports with #8 x 12" TEKS screws at maximum spacing of 2'-0" on center or per local code, whichever is greater.
4. Optional Vented L-Panel shall have a Net Free Vent Area (NFVA) of 5.19 square inches per lineal foot of panel.

NOTE: Berridge Manufacturing Company does not recommend vented products in applications subject to aggressive atmospheres, marine environments or high humidity due to the corrosive nature of these environments on raw edges of steel.

I. BERRIDGE FLUTED FASCIA PANEL

1. Panels shall have a stamped, fluted design with 10" by 3/4 ½" exposure to the weather.
2. Application: Fluted Fascia Panels are recommended for vertical fascia usage or mansard facades with a slope of 12/12 or greater only.
3. Attachment shall be to solid sheathing with concealed 1-1/4" long galvanized ring shank roofing nails spaced at 20" on center.

J. BERRIDGE FISH SCALE SHINGLE

1. Fish Scale Shingles shall be blanked and stamped with two scale modules per shingle. The exposure to the weather shall be 8-1/2" by 11-1/2" per shingle.
2. Shingles shall be of overlapping, interlocking design, fastened to solid substrate with concealed fasteners.
3. Shingles shall be of non-combustible 24-gauge steel with Class A Fire Rating.

2.08 EXPOSED FASTENER PANELS (PICK APPROPRIATE STYLE)

A. BERRIDGE "R" PANEL

1. Overall panel width shall be 38-1/4", with 36" net coverage.
2. Panels shall be factory-formed to 40' max and shall have exposed fasteners.
3. 1-1/4" high ribs shall be spaced 12" on center, with 3/4" wide by 1/4" high minor ribs spaced 4" on center between major ribs.
4. Panel-to-panel and panel-to-purlin connections shall be with No. 12-14 self-drilling tapping fasteners, 1" min. for panel-to-purlin connections, 3/4" minimum for panel-to-panel connections.
5. Compressible blanket insulation shall be maximum 4-1/2" thickness before compression.
6. For roof applications, a line of tape sealant for weathertightness shall be used at panel side laps and end laps.
7. Where required, panel assembly shall bear Underwriter's Laboratories Label UL90, pursuant to Construction Number 161.

B. BERRIDGE "M" PANEL

1. Overall panel width shall be 38-1/4", with 36" net coverage.
2. Panels shall be factory formed to 40' max and shall have exposed fasteners.
3. 3/4" high ribs shall be spaced at 6" on center.
4. Panel-to-panel and panel-to-purlin connections shall be with No. 12-14 self drilling tapping fasteners, 1" min. for panel-to-purlin, 3/4" for panel-to-panel connections.

C. BERRIDGE DEEP-DECK PANEL

1. Overall panel width shall be 41 1/2" wide with 36" wide net coverage.
2. Panels shall be factory-formed to 40' max. & shall have exposed fasteners.
3. Upper ridges shall be 2" wide, lower ridges 1-1/2" wide and overall depth shall be 1-1/2".
4. Panel-to-panel and panel-to-purlin connections shall be N. 12-14 self-tapping fasteners, 1" min. and for panel to purlin connections, 3/4" min. for panel to panel connections.
5. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-1646 and E-1680.

D. BERRIDGE DOUBLE-RIB PANEL

1. Overall panel width shall be 26-3/8"; 24-0" nominal coverage.
2. Panels shall be factory formed to 40' max.
3. 1/2" Corrugations shall be spaced 11-1/2" (12" nominal) on center.
4. Panel-to-panel and panel-to-purlin connections to be with No. 12-14 self-drilling fasteners, 1" min. for panel-to-purlin connections, 3/4" minimum for panel-to-panel connections.
5. For roof applications, a line of tape sealant for weather tightness shall be used at panel side laps and end laps.

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PRODUCT SPECIFICATIONS

E. BERRIDGE "S" DECK PANEL

1. Nominal coverage width to be [32"] or [34-2/3"].
2. Panels shall be factory formed to 40' max. As an option, panels may be factory curved to a minimum radius of 5'-0" (32" width only).
3. 7/8" Corrugations to be spaced 2-1/2" on center.
4. Panel-to-panel and panel-to-purlin connections to be with No. 12-14 self-drilling fasteners, 1" min. for panel-to-purlin connections, 3/4" minimum for panel-to-panel connections.
5. When used as a finish roof panel over open framing, compressible blanket insulation to be maximum 4-1/2" thickness before compression.
6. For roof applications, a line of tape sealant for weathertightness shall be used at panel side laps and end laps.

2.09 FRAMING MATERIAL (PICK APPROPRIATE STYLE)

A. VANTAGE POINT RETROFIT SYSTEM

NOTE: Berridge Zee-Lock panels may be used in conjunction with Berridge "Vantage Point" light-gauge open framing in a re-roof, retrofit application. Berridge Manufacturing Company will furnish extended Vantage Point Retrofit Framing System Specifications on request. Consult Berridge Technical Department for other compatible roofing panels.

B. BERRIDGE LIGHT GAUGE FRAMING COMPONENTS

1. Material: 24 and 16 Gauge Hot Dipped G-90 coating galvanized steel, Grade C ASTM 525-86
2. Cold-rolled shapes as noted in Berridge catalog.

PART 3 EXECUTION

3.01 INSPECTION

A. Substrate:

1. Examine plywood or metal deck to ensure proper attachment to framing.
2. Inspect roof deck to verify deck is clean and smooth, free of depressions, waves or projections, level to 1/4" in 20' and properly sloped to [valleys] (or) [eaves].
3. Verify roof openings, curbs, pipes, sleeves, ducts or vents through roof are solidly set, cant strips and reglets in place, and nailing strips located.
4. Verify deck is dry and free of snow or ice. [Flutes in steel deck to be clean and dry] or [joints in wood deck to be solidly supported and nailed].

B. Underlayment:

1. Verify [#30 unperforated asphalt saturated roofing felt underlayment has been installed over solid plywood or OSB sheathing and fastened in place] or [Manufacturer approved peel & Stick membrane on metal deck].
2. One (1) layer of #30 asphalt roofing felt paper for roof slopes of 3:12 and up, two (2) layers for roof slopes of 1:12 - 3:12 in moderate climates (check with Berridge).
3. Ensure felt installed horizontally, starting at eave to ridge with a 6" minimum overlap and 18" endlaps.
4. Ensure that all nail heads and felt caps are totally flush with the substrate. Fasteners shall be galvanized roofing nails with Berridge Coated Felt Caps.
5. Manufacturer approved peel and stick underlayment to be used on all curved applications and on low (less than 1:12) slope or complex roofs per Berridge recommendation.

6. Peel and Stick Underlayment materials approved by include - Grace Ice & Water Shield (40 mil), Grace Ultra (30 mil), Tamko TW Underlayment (40 mil), Tamko TW Metal & Tile (75 mil), Soprema Lastobond Shield HT (40 mil) and Polyglass Polystick MTS (60 mil), and Mid-States Asphalt Quik-Stick HT Pro (60 mil). *PLEASE NOTE, NO OTHER MID-STATES ASPHALT PRODUCTS WITH SIMILAR NAMES OR OTHERWISE ARE APPROVED FOR THE BERRIDGE WATERTIGHTNESS WARRANTY PROGRAM.
7. Peel and Stick to be installed per underlayment manufacturer's recommendations.

3.02 INSTALLATION

- A. Comply with manufacturers standard instructions and conform to standards set forth in the Architectural Sheet Metal Manual published by SMACNA, in order to achieve a watertight installation.
- B. Install panels in such a manner that horizontal lines are true and level and vertical lines are plumb.
- C. Install starter and edge trim before installing roof panels.
- D. Remove protective strippable film prior to installation of roof panels.
- E. Attach panels using manufacturer's standard clips and fasteners, spaced in accordance with approved shop drawings.
- F. Install sealants for preformed roofing panels as approved on shop drawings.
- G. Do not allow panels or trim to come into contact with dissimilar materials.
- H. Do not allow traffic on completed roof. If required, provide cushioned walk boards.
- I. Protect installed roof panels and trim from damage caused by adjacent construction until completion of installation.
- J. Remove and replace any panels or components which are damaged beyond successful repair.

3.03 CLEANING

- A. Clean any grease, finger marks or stains from the panels per manufacturer's recommendations.
- B. Remove all scrap and construction debris from the site.

3.04 FINAL INSPECTION

- A. Final inspection will be performed by a firm appointed and paid for by the owner in accordance with section 01410.

END OF SECTION

NOTE: Please reference Berridge Manufacturing Company's current Sweet's Catalog 07 61 00/BER, Sweet's BuyLine 49510 and 07 41 00/BER and Berridge's web site at www.berridge.com for standard product offering with regard to materials, gauges, finishes and colors available.

For specification assistance or product recommendations, please contact a Berridge Staff Architect at (800) 231-8127. Visit www.berridge.com for the most up-to-date information including specifications, CAD details, product information and much more.

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“OIL-CANNING” IN ARCHITECTURAL METAL PANELS

No architectural metal roofing application will be totally free of a certain degree of waviness, also sometimes referred to as “oil-canning”. Generally, “oil-canning” or waviness in flat metal pans usually originate at the steel mill, but in some cases may also be induced by improper installation.

“Oil-canning” has long been observed to be an inherent condition in all sheet steel due to mill camber and leveling tolerances. All mill steel, though stretcher-leveled, has some loose spots in the coil. A coil-coater may not reject material based solely on waviness or “oil-canning”; if a coil-coater’s paint line can apply a finish to the coil without skipping, then the coil may not be rejected.

The amount of waviness or “oil-canning” can vary from one coil to the next and is always more visible on a new roof, due to the high gloss of the new paint. Because of this high gloss and its resulting high degree of light reflection, any irregularity is greatly emphasized. As the finish ages and gloss decreases, this condition will diminish proportionately.

To a limited extent, waviness or “oil-canning” can be caused by improper installation techniques, including failure to provide a level substrate, failure to keep panels square and on module (thus inducing stress and distortion), inconsistent fastener pressure, improper length clips or hold-down anchor clips used with thicker blanket insulation.

In summary, a certain amount of waviness in the pan of any architectural metal panel can be expected. As the paint weathers, this waviness will cease to be noticeable. Any requirement that an architectural metal roof be totally free of “oil-canning” is unreasonable and is not sufficient reason for material rejection.

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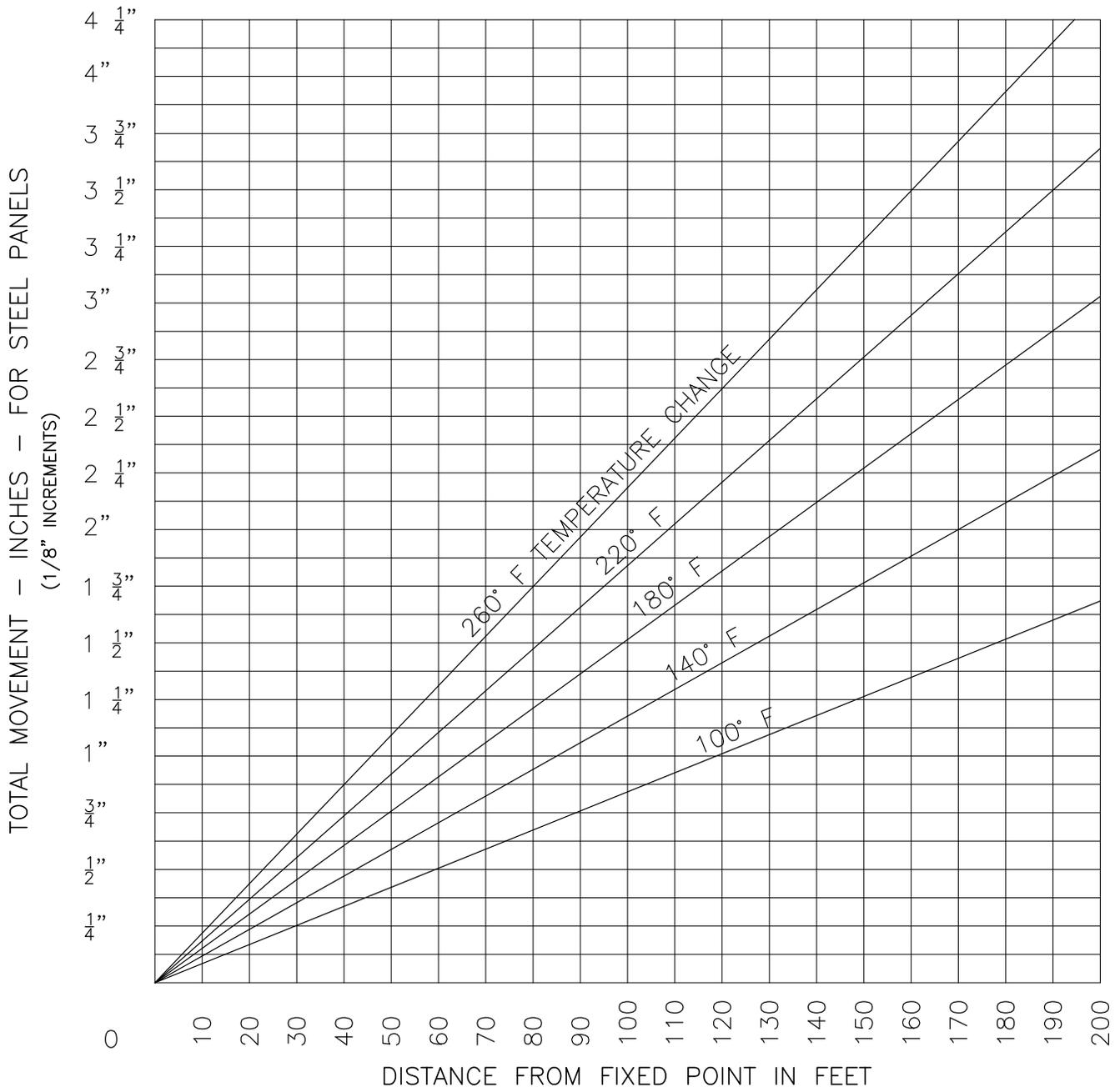
GENERAL DESIGN INFORMATION

GALVALUME® NOMINAL LINEAR THERMAL EXPANSION

Expansion and contraction of metal panels over 30 feet in length, due to longitudinal thermal movement must be considered in both design and installation. The chart below emphasizes the need to provide ample clearances for gutters, ridges, endwalls, etc.

Maximum temperature should be no lower than 140° F for white panels and up to 180° F for dark panels regardless of ambient maximum. Minimum should be figured well below ambient minimum to allow for radiation to night sky. In any case, a minimum of 100° F differential is recommended.

EXPANSION CHART



BERRIDGE MANUFACTURING COMPANY

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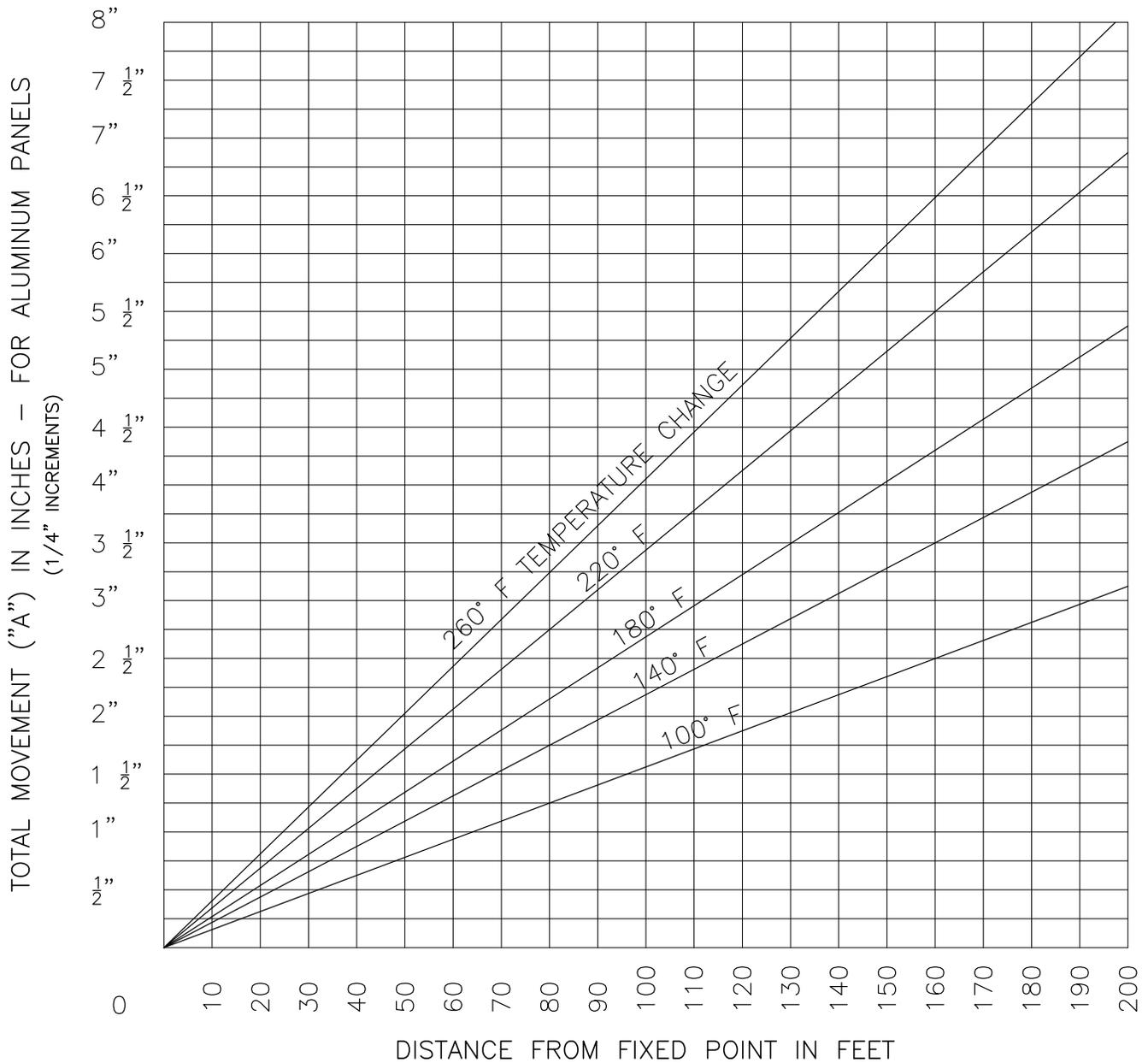
GENERAL DESIGN INFORMATION

ALUMINUM NOMINAL LINEAR THERMAL EXPANSION

Expansion and contraction of metal panels over 30 feet in length, due to longitudinal thermal movement must be considered in both design and installation. The chart below emphasizes the need to provide ample clearances for gutters, ridges, endwalls, etc.

Maximum temperature should be no lower than 140° F for white panels and up to 180° F for dark panels regardless of ambient maximum. Minimum should be figured well below ambient minimum to allow for radiation to night sky. In any case, a minimum of 100° F differential is recommended.

EXPANSION CHART



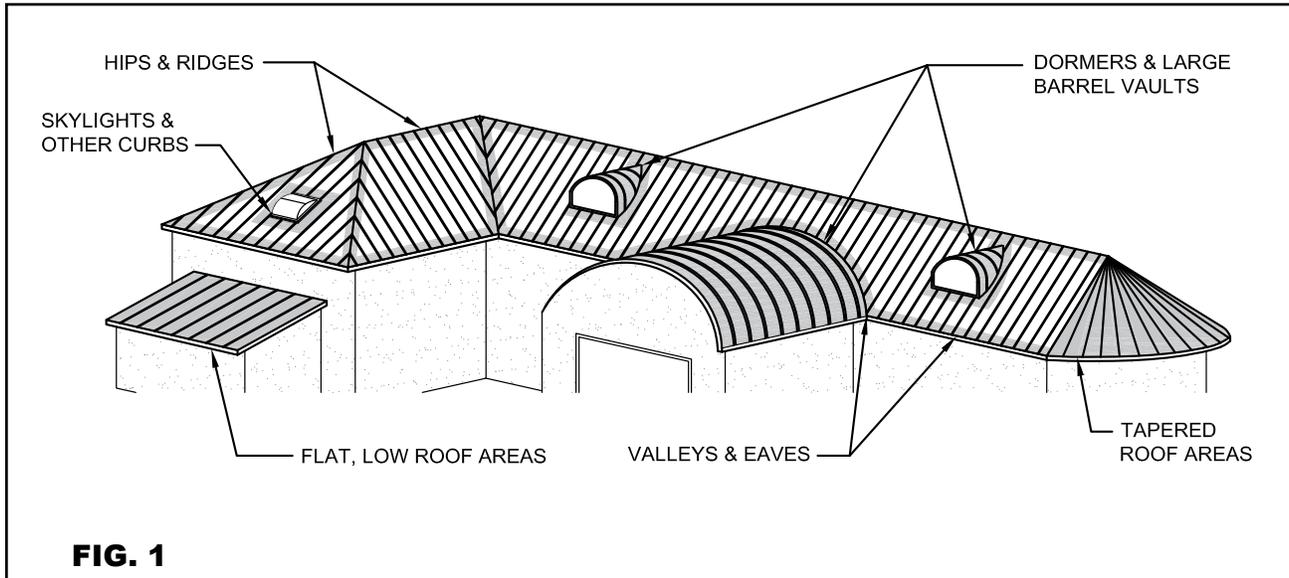
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GENERAL DESIGN INFORMATION

CRITICAL / HIGH RISK ROOF AREAS WHERE SELF-ADHERING MEMBRANE UNDERLAYMENT SHOULD BE USED



CRITICAL / HIGH RISK ROOF AREA CHECK LIST:

- Valley areas: Both Open-framed and Solid deck.
- Barrel Vaults: entire area of barrel vaults and adjacent valleys.
- Low Roof areas.
- Change in roof slope areas.
- Roof Penetrations of all types and sizes (area completely around penetration)
- Potential icing conditions along Eaves, Ridge and Hips.
- Over corrugated decks.

In critical roof areas (Fig. 1) such as eaves, valleys, ridges, hips, rake edges, slope changes, low slope areas, dormers or skylights, barrel vault roofs, an approved peel and stick shield membrane underlayment must be installed under metal roofing, tiles, shakes and shingles as a barrier against water leakage resulting from ice dams or wind-driven rain. In exceptionally high risk roof configurations, it may be used as a complete roof underlayment for maximum protection. Approved underlayments are listed in the FAQ's page in the warranties section at www.berridge.com.

NOTES:

1. Use a minimum 40 mil. self adhesive, self sealing, self healing waterproofing, high temperature peel and stick membrane designed for use under metal roofing.
2. On projects which require issuance of a Berridge Watertightness Warranty, contact the Berridge Warranty Dept prior to bid date and submit a roof plan and details to determine required placement of peel and stick membrane.
3. Valleys: For valleys which occur over open framing purlins, Berridge typical details must be closely adhered to in order for a Berridge Watertightness Warranty to be issued.
4. Penetrations: Consult Berridge typical details governing roof penetrations.

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What is LEED®?

Leadership in Energy and Environmental Design (LEED) is an internationally recognized certification system established by the U.S. Green Building Council (USGBC) whose goal is to promote integrated, whole-building design practices and standards for green, sustainable building and community designs emphasizing energy savings, water efficiency, CO2 emissions reductions, improved indoor environmental quality, and stewardship of resources and their impacts on the environment.

LEED® for New Construction and Major Renovations is one component of LEED v4 and is the latest version of the USGBC's green building certification program. It recognizes the following key areas:

Sustainable Sites (SS) – 10 Possible Points

Materials & Resources (MR) – 13 Possible Points

Water Efficiency (WE) – 11 Possible Points

Innovation – 6 Possible Points

Indoor Environmental Quality (IEQ) – 16 Possible Points

Energy & Atmosphere (EA) – 33 Possible Points

Regional Priority – 4 Possible Points

Points are awarded to each category listed above depending on building performance on certain requirements and standards set forth by LEED® v4. Points are then totaled and LEED certification is granted based on the total point levels shown below:

LEED Certified – 40 to 49 Points

LEED Silver – 50 to 59 Points

LEED Gold – 60 to 79 Points

LEED Platinum – 80 to 110 Points

Summary

The use of Berridge Manufacturing metal roofing products can directly contribute up to 2 LEED® v4 credits for Heat Island Reduction, but when a “whole-building design” approach is implemented, metal roofing combined with other concerted efforts, products and building systems can contribute to other LEED® v4 credits mentioned herein as well as other credits not listed.

While every effort has been made to provide accurate information, applicants for LEED® Certification should verify compliance with a LEED® expert. For more information on LEED® v4 certification, visit www.usgbc.org.

HOW CAN USING BERRIDGE PRODUCTS CONTRIBUTE TO A LEED® CERTIFICATION ON NEW CONSTRUCTION OR MAJOR RENOVATIONS?

Sustainable Sites - Berridge Manufacturing Company cool metal roofs have Solar Reflectance Index values that meet or exceed LEED® v4 criteria for the Heat Island Reduction credit as detailed below.

SS Credit 5: Heat Island Reduction (2 points excluding Healthcare, 1 point Healthcare)

Intent - To minimize effects on microclimates and human and wildlife habitats by reducing heat islands.

Requirement - Use roofing materials that have an SRI equal to or greater than the values in Table 1. Meet the three-year aged SRI value. If three-year aged value information is not available, use materials that meet the initial SRI value.

Table 1. Minimum solar reflectance index value, by roof slope

	Slope	Initial SRI	3 Year Aged SRI
Low Sloped Roof	<2:12	82	64
Steep Sloped Roof	>2:12	39	32

Refer to the chart of SRI values for information on solar reflectance, thermal emissivity and Solar Reflectance Index (SRI) values for all Berridge cool metal roof colors.

Disclaimer: Due to different testing methods employed by various laboratories and paint suppliers these values may vary slightly. Refer to www.berridge.com technical bulletins for the most up to date information or contact BMC directly.

Berridge Colors	Solar Reflectance	Emissivity	SRI
Aged Bronze	0.30	0.86	30
Almond	0.65	0.83	77
Bristol Blue	0.33	0.85	33
Buckskin	0.32	0.83	32
Burgundy	0.29	0.85	29
Charcoal Grey	0.31	0.84	30
Cityscape	0.48	0.85	54
Colonial Red	0.33	0.85	34
Copper Brown	0.30	0.85	29
Dark Bronze	0.28	0.85	27
Deep Red	0.39	0.84	41
Evergreen	0.30	0.83	29
Forest Green	0.25	0.83	22
Hartford Green	0.28	0.83	26
Hemlock Green	0.31	0.83	30
Matte Black	0.26	0.89	26
Medium Bronze	0.31	0.85	31
Parchment	0.52	0.83	58
Patina Green	0.34	0.86	36
Royal Blue	0.26	0.85	25
Shasta White	0.60	0.84	70
Sierra Tan	0.39	0.85	42
Teal Green	0.27	0.87	27
Terra-Cotta	0.32	0.83	31
Zinc Grey	0.39	0.85	42
Acrylic-Coated Galvalume®	0.67	0.20	59
Premium Colors			
Award Blue	0.17	0.83	11
Natural White	0.76	0.84	93
Metallic Colors			
Antique Copper-Cote	0.33	0.84	34
Champagne	0.40	0.85	43
Copper-Cote™	0.51	0.85	59
Lead-Cote™	0.46	0.84	50
Preweathered Galvalume®	0.40	0.85	43
Zinc-Cote™	0.53	0.83	59

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SS Credit 4: Rainwater Management (1-3 points)

Berridge Manufacturing Company cool metal roofs can be used as a surface for non-potable rainwater collection and thus can contribute LEED® v4 criteria for water efficiency when integrated with rainwater collection systems.

Intent: To reduce runoff volume and improve water quality by replicating the natural hydrology and water balance of the site, based on historical conditions and undeveloped ecosystems in the region.

Requirements:**Option 1. Percentile of rainfall events****Path 1. 95th percentile (2 points excluding Healthcare, 1 point Healthcare)**

In a manner best replicating natural site hydrology processes, manage on-site the runoff from the developed site for the 95th percentile of regional or local rainfall events using low-impact development (LID) and green infrastructure.

Use daily rainfall data and the methodology in the U.S. Environmental Protection Agency (EPA) Technical Guidance on Implementing the Storm Water Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act to determine the 95th percentile amount.

OR

Path 2. 98th percentile (3 points excluding Healthcare, 2 points Healthcare)

Achieve Path 1 but for the 98th percentile of regional or local rainfall events, using LID and green infrastructure.

OR

Path 3. Zero lot line projects only – 85th Percentile (3 points excluding Healthcare, 2 points Healthcare)

The following requirement applies to zero lot line projects in urban areas with a minimum density of 1.5 FAR. In a manner best replicating natural site hydrology processes, manage on site the runoff from the developed site for the 85th percentile of regional or local rainfall events, using LID and green infrastructure.

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Materials & Resources –

Berridge Manufacturing Company’s metal products are made from 32.3% recycled content and are 100% recyclable at the end of their life. Reusing, recycling, or salvaging Berridge metal products can help contribute to the following LEED® v4 credits:

MR Credit 1: Building Life-Cycle Impact Reduction: Building and Material Reuse (2-5 points)

Intent: To encourage adaptive reuse and optimize the environmental performance of products and materials.

Requirements: Demonstrate reduced environmental effects during initial project decision-making by reusing existing building resources or demonstrating a reduction in materials use through life-cycle assessment.

Points for reuse of building materials:

Percentage of Completed Project Surface Area Reused	Points BD&C	Points BD&C (Core and Shell)
25%	2	2
50%	3	3
75%	4	5

MR Credit 2: Building Product Disclosure and Optimization- Environmental Product Declarations (1-2 points)

Intent: To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.

Requirements:

Achieve one or more of the options for a maximum of 2 points.

Primary Steel Mills:

Processing Location: Indiana Harbor West Plant, East Chicago, IN 46312

Extraction Location: United Taconite, Ishpeming, MI 49849
Northshore Mine, Silver Bay, MN 55614

Processing Location: Fairfield Works, Fairfield, AL 35064

Extraction Location: Minntac, Mt. Iron, MN 55768
Keetac, Keewatin, MN 55753

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Manufacturing Locations:

Painted: Berridge Manufacturing Company, San Antonio, TX 78218

Manufactured: Berridge Manufacturing Company, Seguin, TX 78155

Alternate Manufacturing Location: Location of Berridge Portable Roll Former used to site-form panels

All Berridge Manufacturing Company's architectural metal products are made from AZ-50 Galvalume steel extracted, harvested, or recovered from various mines in the United States as noted above. Documentation from Berridge's steel providers is inconclusive in regards to the exact extraction locations for all raw materials and recycled content. Therefore, it is not possible for Berridge to verify or document a primary extraction, harvesting, or recovery location. As such, Berridge recommends verifying compliance with a LEED® expert.

MR Credit 5: Construction and Demolition Waste Management (1-2 points)

Intent: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovery, reusing, and recycling materials.

Requirements: Recycle and/or salvage nonhazardous construction and demolition materials. Calculations can be by weight or volume but must be consistent throughout.

Exclude excavated soil, land-clearing debris from calculations. Include materials destined for alternative daily cover (ADC) in the calculations as waste (not diversion). Include wood waste converted to fuel (bio-fuel) in the calculations; other types of waste-to-energy are not considered diversion for this credit.

Indoor Environmental Quality

Berridge Manufacturing Company recommends using Tremco Spectrum I, Dow Corning 790, Pecora 890NST, DuraLink or Titebond Metal Roof Sealant with Berridge architectural metal products. When Berridge metal products are used for indoor product applications, the aforementioned sealants meet LEED® v4 criteria for IEQ Credits as indicated below:

Tremco Spectrum I contains 0 g/L of VOC

Dow Corning 790 contains 50 g/L of VOC

Pecora 890NST contains 98 g/L of VOC

DuraLink contains less than 19 g/L of VOC

Titebond Metal Roof Sealant contains 9 g/L of VOC

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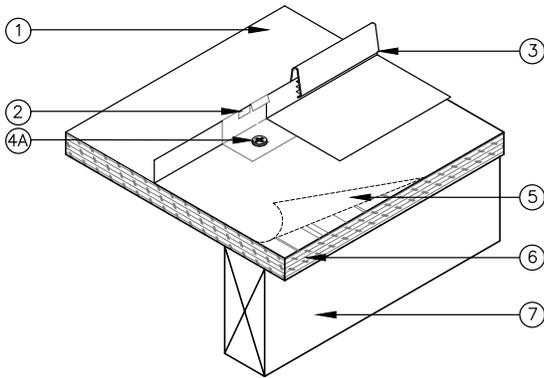
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IEQ Credit2: Low Emitting Materials (Possible 3 Points)

Intent: To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

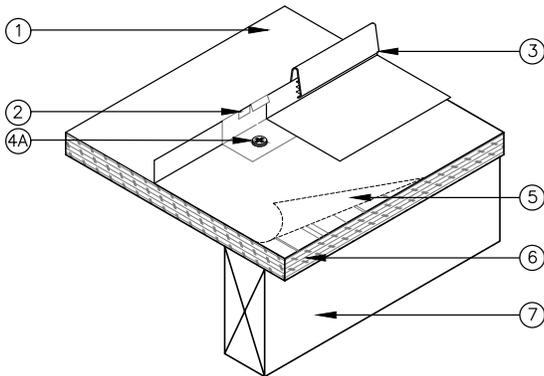
Requirements: This credit includes requirements for product manufacturing as well as project teams. It covers volatile organic compound (VOC) emissions in the indoor air and the VOC content of materials, as well as the testing methods by which indoor VOC emissions are determined. Different materials must meet different requirements to be considered compliant for this credit. The building interior and exterior are organized in seven categories, each with different thresholds of compliance. The building interior is defined as everything within the waterproofing membrane. The building exterior is defined as everything outside and inclusive of the primary and secondary weatherproofing system, such as waterproofing membranes and air and water resistive barrier materials.

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 3/4" wide and rib height of 5/8". 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, 3/4" high x 1 1/2" wide x 1 5/8" 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 7/8" 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 5/8" 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

CONSTRUCTION NO. 296 - Aluminum BERRIDGE TEE-PANEL OVER SOLID PLYWOOD SHEATHING



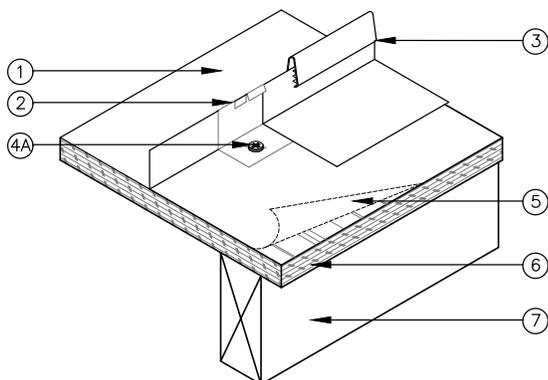
1. **BERRIDGE TEE-PANEL:** Minimum 0.032 aluminum, 12 3/4" wide and rib height of 5/8". Total seam height with snap-on seam cover in place is nominal 1". Panels to be continuous length. End laps to be overlapped min. 6". A line of sealant may be used at panel end & side laps.
2. **BERRIDGE PANEL CLIP:** One-piece clip, 3/4" high x 1 1/2" wide x 1 5/8" 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 7/8" 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 5/8" 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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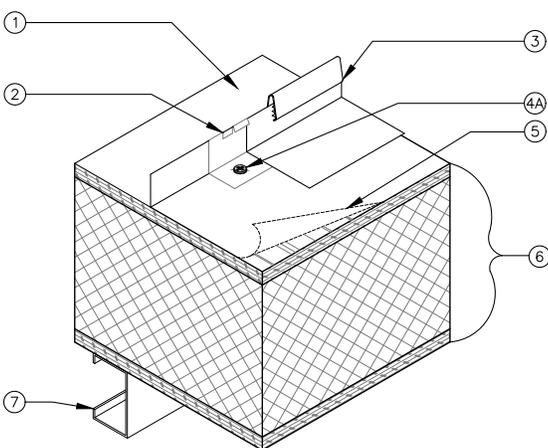
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CONSTRUCTION NO. 297 - Galvalume® BERRIDGE HIGH SEAM TEE-PANEL OVER SOLID PLYWOOD SHEATHING



1. **BERRIDGE HIGH SEAM TEE-PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18 1/4" wide and rib height 1 3/8". Total seam height with snap-on seam cover in place is nominal 1 1/2". 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 3/8" high x 1 1/2" (nominal) wide x 1 5/8" 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 7/8" 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 5/8" 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 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

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



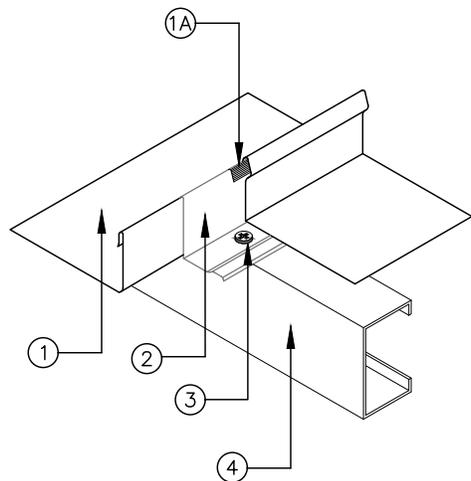
1. **BERRIDGE HIGH SEAM TEE-PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18 1/4" wide and rib height 1 3/8". Total seam height with snap-on seam cover in place is nominal 1 1/2". Panels to be continuous length. End laps to be overlapped min. 6". A line of sealant may be used at panel end & side laps.
2. **BERRIDGE TEE-PANEL CLIP:** One piece clip, 1 3/8" high x 1 1/2" (nominal) wide x 1 5/8" 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 3/8" wide by 7/8" 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 5/8" 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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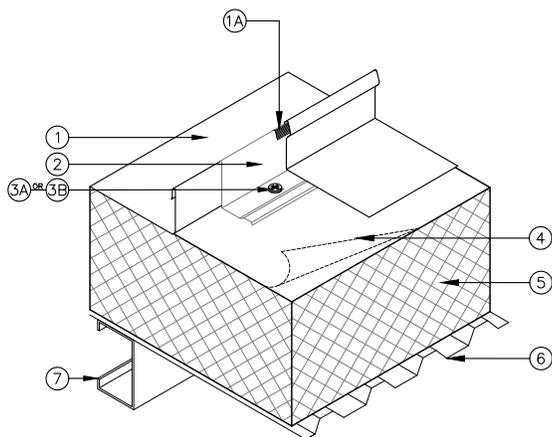
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**CONSTRUCTION NO. 334 - Galvalume®
BERRIDGE CEE-LOCK PANEL WITH
CONTINUOUS CEE-RIB OVER OPEN PURLINS
(NO INSULATION)
(CONSULT BMC FOR APPROVED APPLICATIONS)**



1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 1/2" wide, 1 1/2" 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 1/2" 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 5/8" 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.

**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**



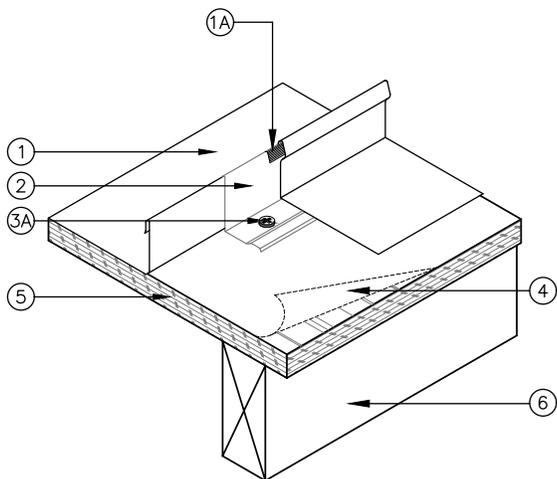
1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 1/2" wide, 1 1/2" high panel continuous over two or more spans without endlaps.
 - a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CONTINUOUS CEE-RIB:** One-piece 1 1/2" 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 3/4" 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 3/4" 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 3/4". 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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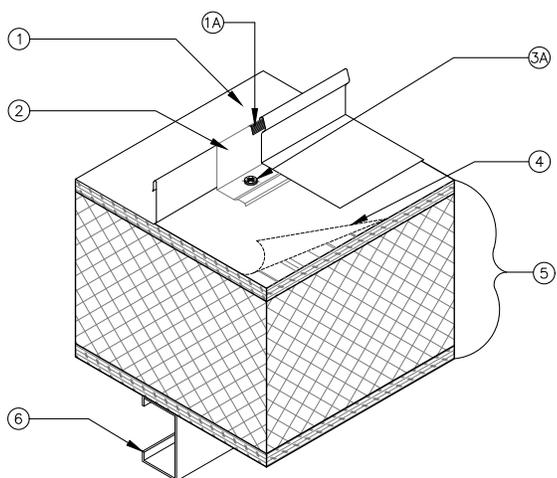
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CONSTRUCTION NO. 404 - Galvalume® BERRIDGE CEE-LOCK PANEL WITH INDIVIDUAL CEE-CLIPS OVER 5/8" PLYWOOD DECK SOLID WOOD SHEATHING



1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 1/2" wide, 1 1/2" 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 1/2" high x 1 3/16" wide x 3 1/2" 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 5/8" thick, sheathing span C-D 40/20 Plywood.
6. **JOISTS:** Nominal 2" x 4" spaced 2'-0" on center maximum.

CONSTRUCTION NO. 474 - Galvalume® BERRIDGE CEE-LOCK PANEL WITH CONTINUOUS CEE-RIB OVER STRUCTURAL CEMENT FIBER SHEATHING



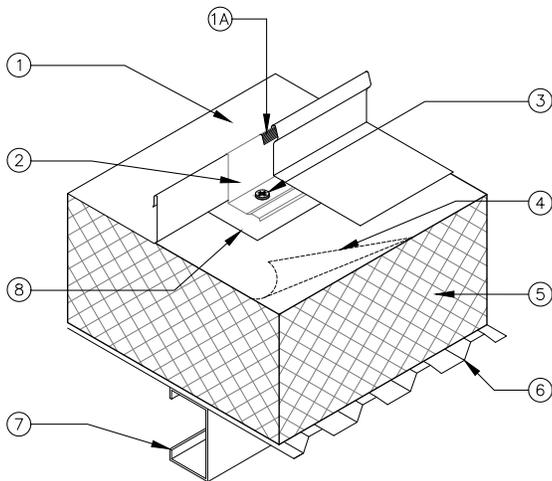
1. **BERRIDGE CEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16 1/2" wide, 1 1/2" high panel continuous over two or more spans without endlaps.
 - a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CONTINUOUS CEE-RIB:** One-piece 1 1/2" 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 5/8" 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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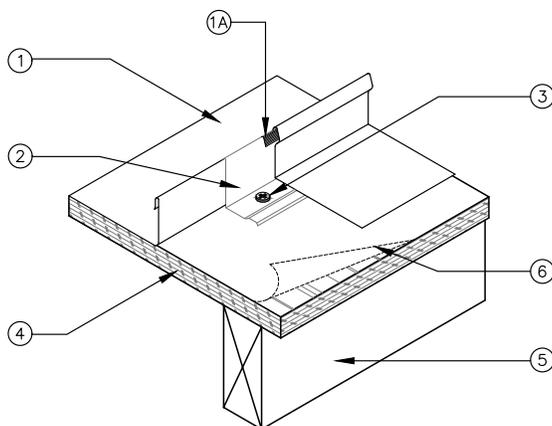
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CONSTRUCTION NO. 689 - Aluminum BERRIDGE ALUMINUM CEE-LOCK PANEL WITH INDIVIDUAL STAINLESS STEEL CEE-CLIPS THROUGH 6" OF RIGID BOARD AND INTO 22 GAUGE STRUCTURAL METAL DECK



1. **BERRIDGE CEE-LOCK PANEL:** 0.032" coated Aluminum, 16 1/2" wide, 1 1/2" 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 1/2" high x 1 3/16" wide x 3 1/2" 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 3/4" minimum penetration into metal deck.
 - b. **For Connection of Item #6 to Item #7 (Not Shown):** 1/4"-14 x 1 1/4" 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 3/4". 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.

CONSTRUCTION NO. 690 - Aluminum BERRIDGE ALUMINUM CEE-LOCK PANEL WITH INDIVIDUAL CEE-CLIPS OVER 15/32" PLYWOOD SHEATHING



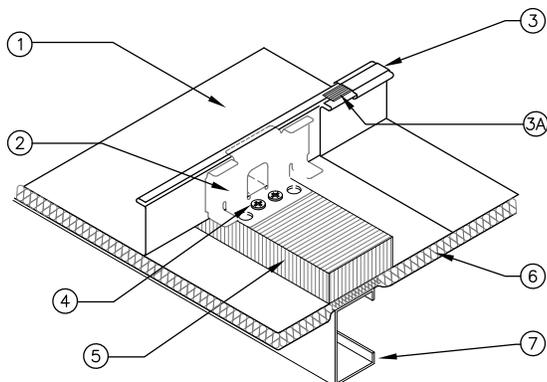
1. **BERRIDGE CEE-LOCK PANEL:** 0.032" coated aluminum, 16 1/2" wide, 1 1/2" high continuous over two or more spans without endlaps.
 - a. An optional vinyl weatherseal (U.S. Patent 4641475) may be used at panel side joints
2. **BERRIDGE CEE-CLIP:** One-piece, 1 1/2" high x 1 3/16" wide x 3 1/2" long, 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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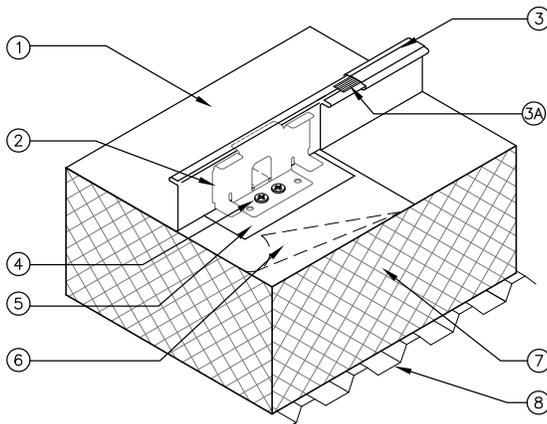
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CONSTRUCTION NO. 268 - Galvalume® BERRIDGE TEE-Lock PANEL WITH INDIVIDUAL TEE-LOCK CLIPS TO OPEN PURLINS



1. **BERRIDGE TEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18" wide, 2 3/8" 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 1/2" 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 1/4-14 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.

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



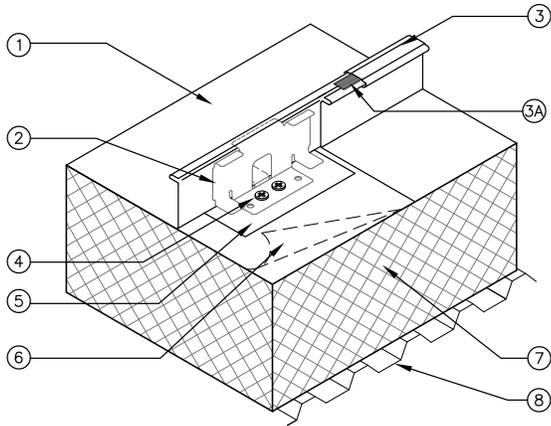
1. **BERRIDGE TEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 18" wide, 2 3/8" high, continuous over two or more spans. Floating end laps to occur over purlins with panels overlapped 8". End lap to begin 3" from purlin web and extend across purlin flange.
2. **BERRIDGE 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 1/2" 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 1/4-13 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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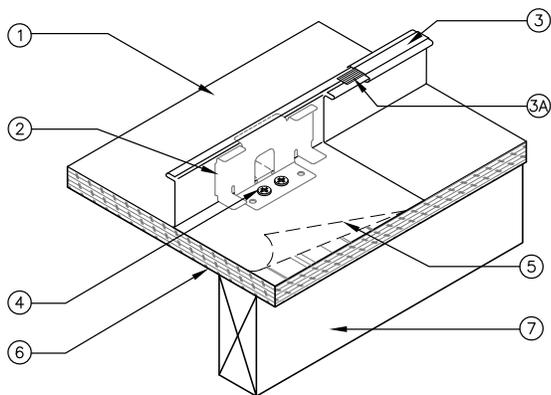
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CONSTRUCTION NO. 268A - Aluminum BERRIDGE ALUMINUM TEE-LOCK PANEL WITH INDIVIDUAL STAINLESS STEEL TEE-LOCK CLIPS THROUGH 4" OF RIGID BOARD AND INTO 22 GAUGE STRUCTURAL METAL DECK



1. **BERRIDGE TEE-LOCK PANEL:** 0.032" coated Aluminum, 18" wide, 2 3/8" 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 1/2" 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 1/4-13 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.

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 1/2" 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

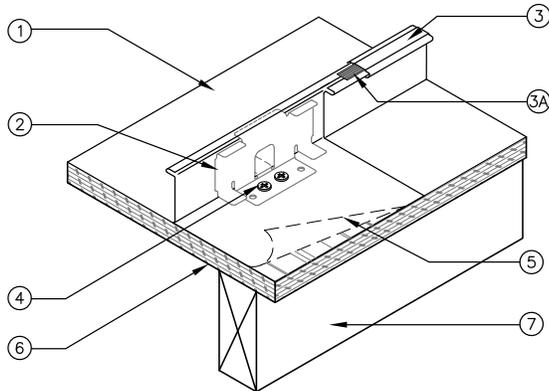
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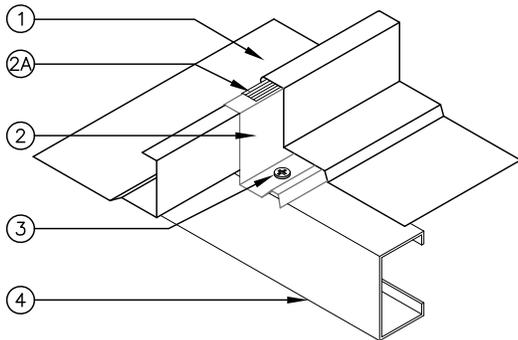
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CONSTRUCTION NO. 268B - Aluminum BERRIDGE ALUMINUM TEE-LOCK PANEL WITH INDIVIDUAL STAINLESS STEEL TEE-LOCK CLIPS OVER 19/32" PLYWOOD SHEATHING



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 1/2" 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

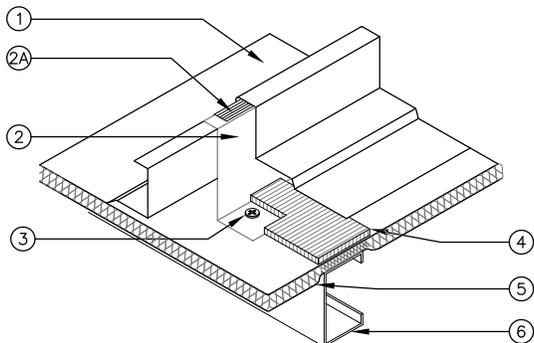
CONSTRUCTION NO. 312 - Galvalume® BERRIDGE ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB OVER OPEN PURLINS (NO INSULATION)



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



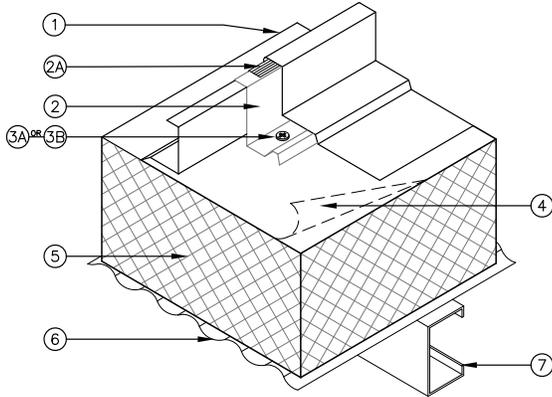
1. **BERRIDGE ZEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16" wide, 2" high panel continuous over 2 or more spans without endlaps. Adjacent panels are seamed together along side joints using an electric seamer tool.
2. **BERRIDGE CONTINUOUS ZEE-RIB:** One-piece, 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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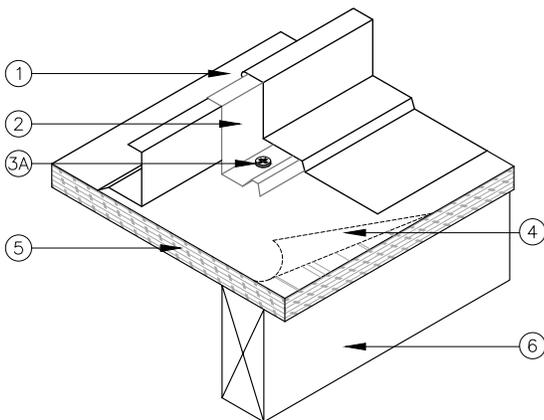
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**CONSTRUCTION NO. 335 - Galvalume®
BERRIDGE ZEE-LOCK PANEL WITH CONTINUOUS
ZEE-RIB THROUGH 4" OF RIGID BOARD AND
INTO 24 GAUGE STRUCTURAL METAL DECK**



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 3/4" 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 3/4" minimum penetration into the purlin.
 - c. **For Connection of Item #6 to Item #7 (Not Shown):** #10 x 3/4" fastener spaced 5 1/2" 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 3/4". 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

**CONSTRUCTION NO. 403 - Galvalume®
BERRIDGE ZEE-LOCK PANEL WITH INDIVIDUAL
CLIPS OVER 5/8" PLYWOOD**



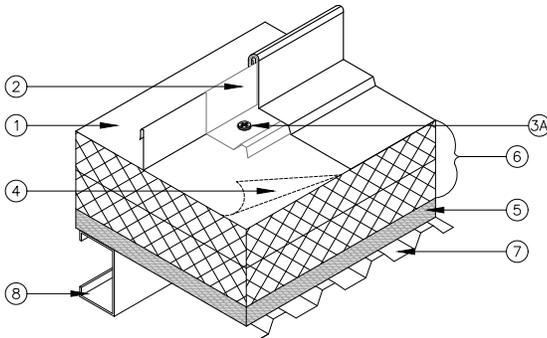
1. **BERRIDGE ZEE-LOCK PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 16" wide, 2" high panel continuous over 2 or more spans without endlaps. An optional extruded vinyl weatherseal (U.S. Patent 5134825) may be used at panel side joints. Adjacent panels are seamed together 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 1/2" 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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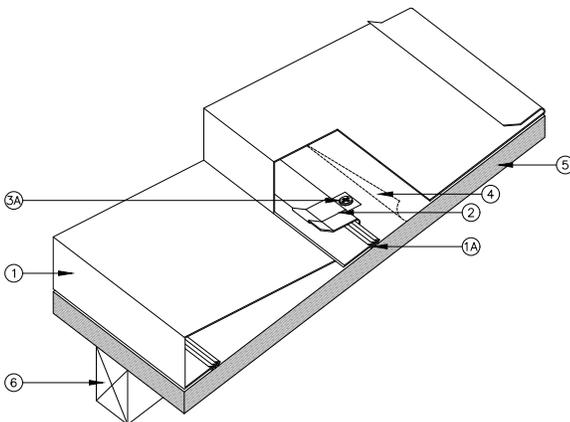
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**CONSTRUCTION NO. 608 - Galvalume®
BERRIDGE DOUBLE-LOCK ZEE-LOCK PANEL
WITH CONTINUOUS ZEE-RIB THROUGH
4" OF RIGID BOARD AND INTO 24 GAUGE
STRUCTURAL METAL DECK**



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 3/4" minimum penetration into metal deck.
 - b. **For Connection of Item #7 to Item #8 (Not Shown):** #12-14 self-drilling fastener spaced 5 1/2" on center. Panel sidelaps to be connected using (1) #8 x 5/8" 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:** Minimum 1/2" 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 3/4". 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.

**CONSTRUCTION NO. 405
BERRIDGE BERMUDA ROOF PANEL OVER
5/8" PLYWOOD**



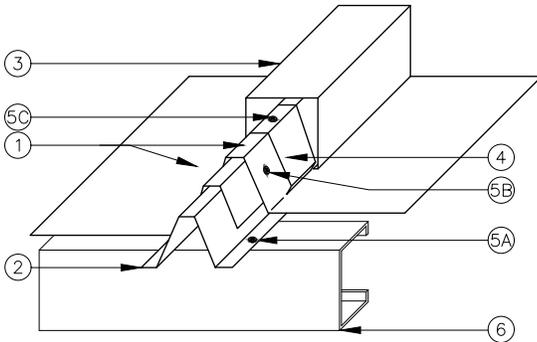
1. **BERRIDGE BERMUDA PANEL:** No. 24 Ga. (Min. yield strength 40,000 PSI) coated steel, 11" wide x 1" high. Panel continuous without end laps.
 - a. Optional extruded vinyl weatherseal may be used at panel joints
2. **BERMUDA PANEL CLIPS:** One piece, fabricated from 24 Ga. (Min. yield strength 40,000 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 1/2" 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 5/8" thick, sheathing span C-D 40/20 Plywood
6. **JOISTS:** Nominal 2 x 4" at maximum 2'0" on center

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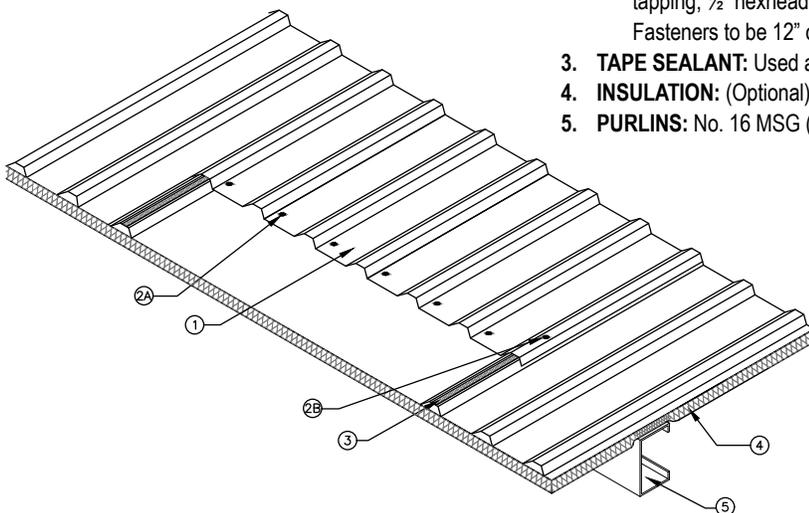
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CONSTRUCTION NO. 262
BERRIDGE BATTEN SEAM PANEL SYSTEM WITH
CONTINUOUS INNER RIB INTO OPEN PURLINS
(NO INSULATION)



1. **BERRIDGE DEEP VEE PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) coated steel, 16" wide, 1 1/2" 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

CONSTRUCTION NO. 39
BERRIDGE "M" PANEL THROUGH 4" BLANKET
INSULATION INTO OPEN PURLINS



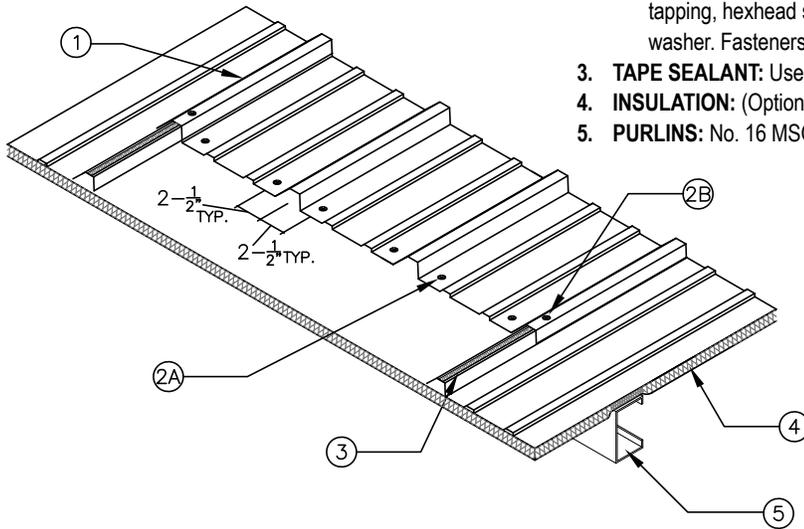
1. **BERRIDGE "M" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, 3/4" high panel continuous over two or more spans. Endlaps to occur over purlins with panels overlapped 6" with lap beginning 1" from edge of purlin flange and extending across the purlin. A line 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, 1/2" 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, 1/2" 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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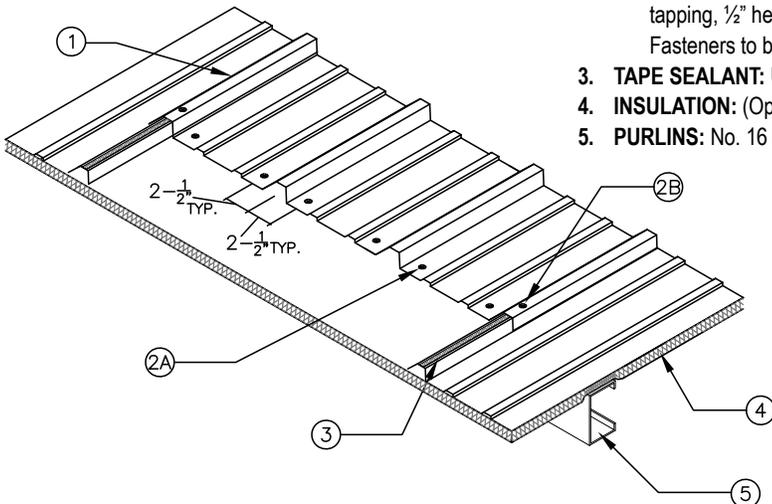
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CONSTRUCTION NO. 161 BERRIDGE "R" PANEL THROUGH 6" BLANKET INSULATION INTO OPEN PURLINS



1. **BERRIDGE "R" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, 1 1/4" 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 5/8" 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 5/8" 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



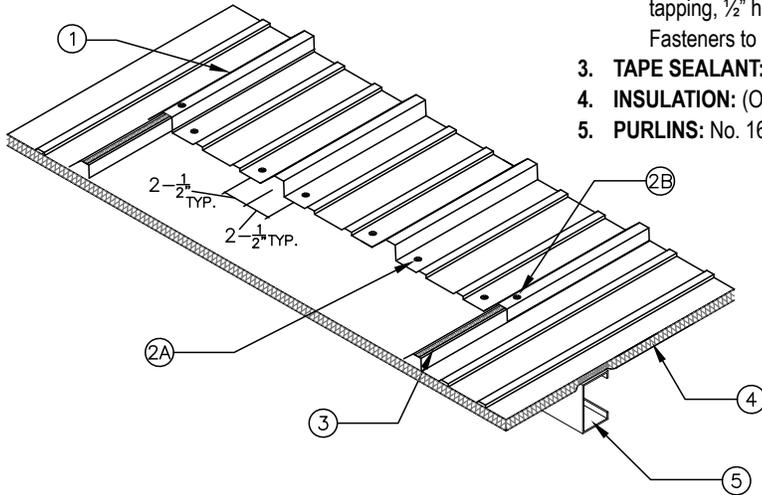
1. **BERRIDGE "R" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, 1 1/4" high rib panel continuous over two or more spans. Endlaps to occur over purlins with panels overlapped 3" minimum, 6" maximum with lap beginning even with purlin web and extending across purlin 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, 1/2" 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, 1/2" 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

BERRIDGE MANUFACTURING COMPANY

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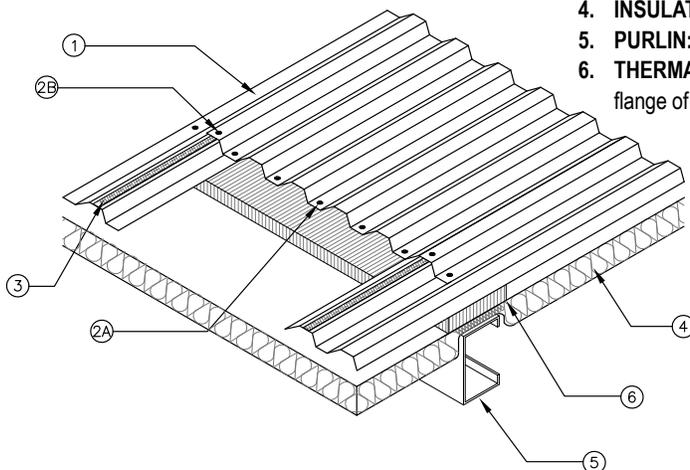
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CONSTRUCTION NO. 79
BERRIDGE "R" PANEL THROUGH 4" BLANKET
INSULATION INTO OPEN PURLINS



1. **BERRIDGE "R" PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) thickness coated steel, 36" wide, 1 1/4" 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, 1/2" 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, 1/2" 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

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



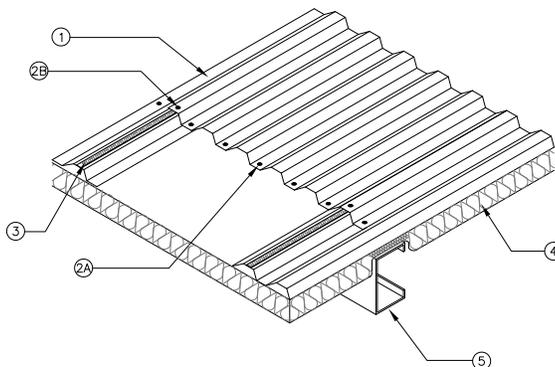
1. **BERRIDGE DEEP DECK PANEL:** No. 24 MSF (Min. yield strength 40,000 PSI) coated steel, 36" wide, 1 1/2" high rib panel continuous over two or more spans. End laps to occur over purlins with panels overlapped a min. of 4" with lap centered over purlin web. A bead of sealant may be used at panel end 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 5/8" 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 1/2" 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.

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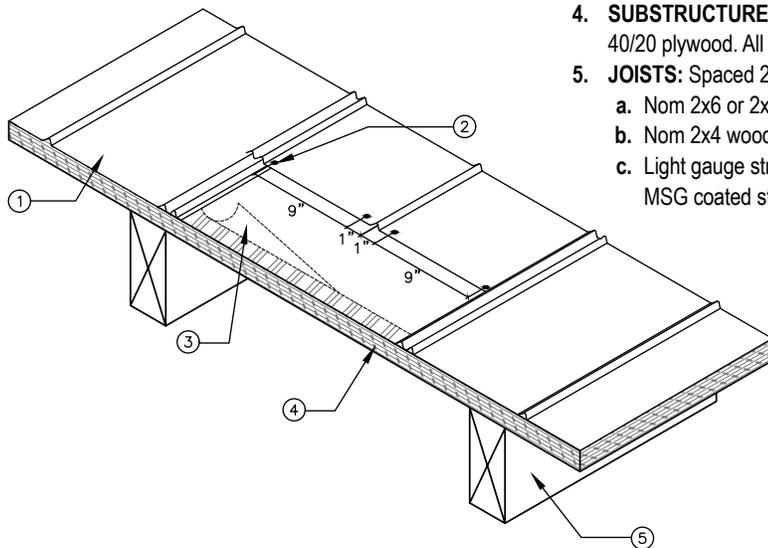
Visit www.berridge.com for the most up-to date information. All information herein subject to change without notice. For technical assistance please contact Berridge.

**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 1/2" 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 3/4" self-drilling, self-tapping, hexhead steel screw with 5/8" 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 1/2" 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

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



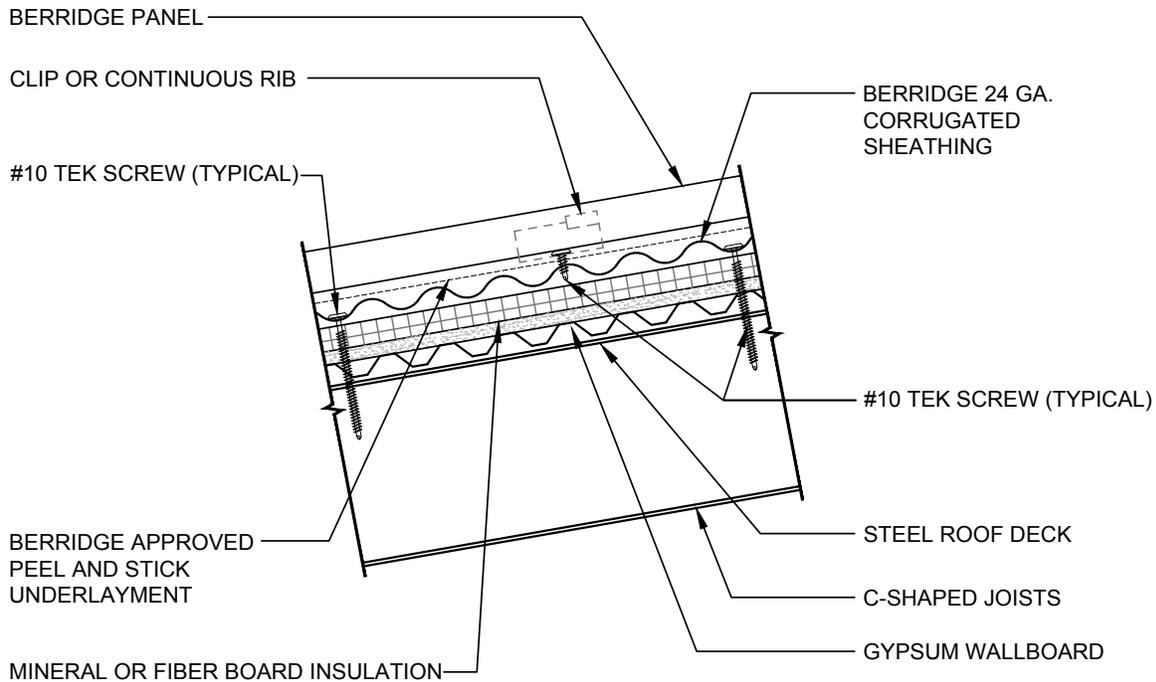
1. **BERRIDGE DOUBLE RIB PANEL:** No. 24 MSG (Min. yield strength 40,000 PSI) coated steel, 24" wide, 1/2" high rib panel continuous over two or more spans. A bead of sealant may be used at panel sidelaps.
2. **FASTENERS (SCREWS):**
 - a. **For Connection of Item #1 to Item #4:** #14-10x 1 1/2" Type A, hex head with separate 5/8" 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 5/8" 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 5/8" 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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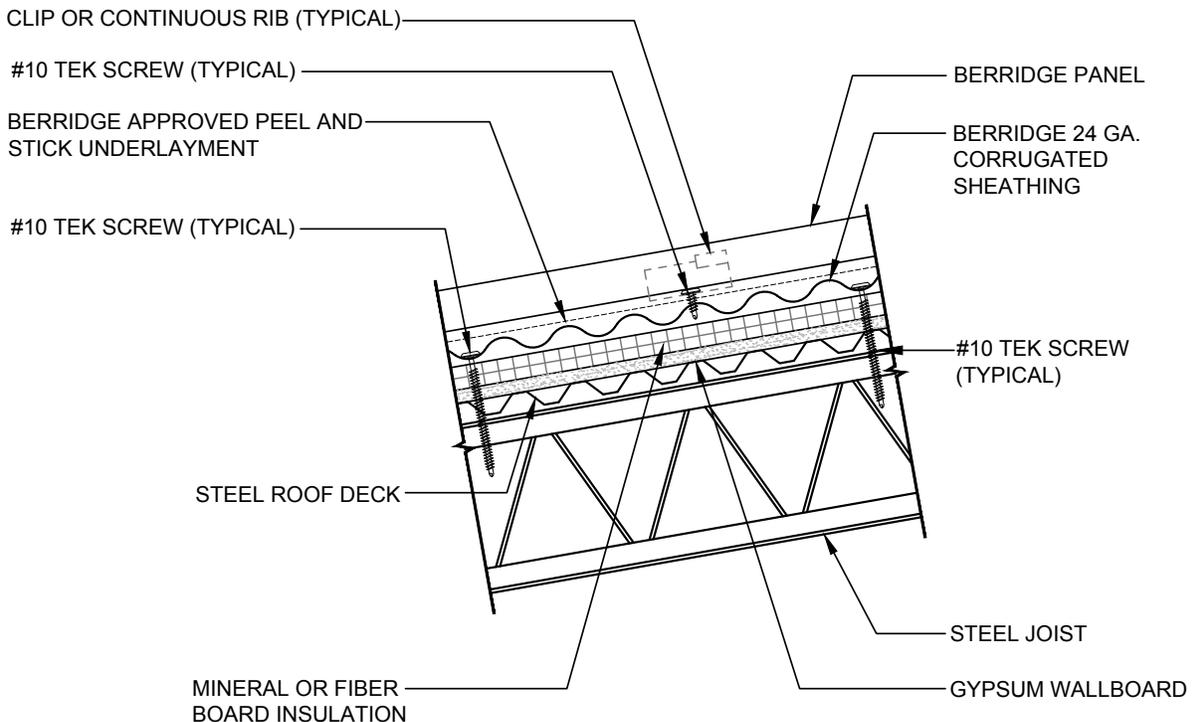
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UL FIRE RESISTANCE ASSEMBLY



THIS ASSEMBLY QUALIFIES FOR U.L. DESIGN NO. P512 & P518, LESS THE MINERAL BOARD REQUIREMENTS.



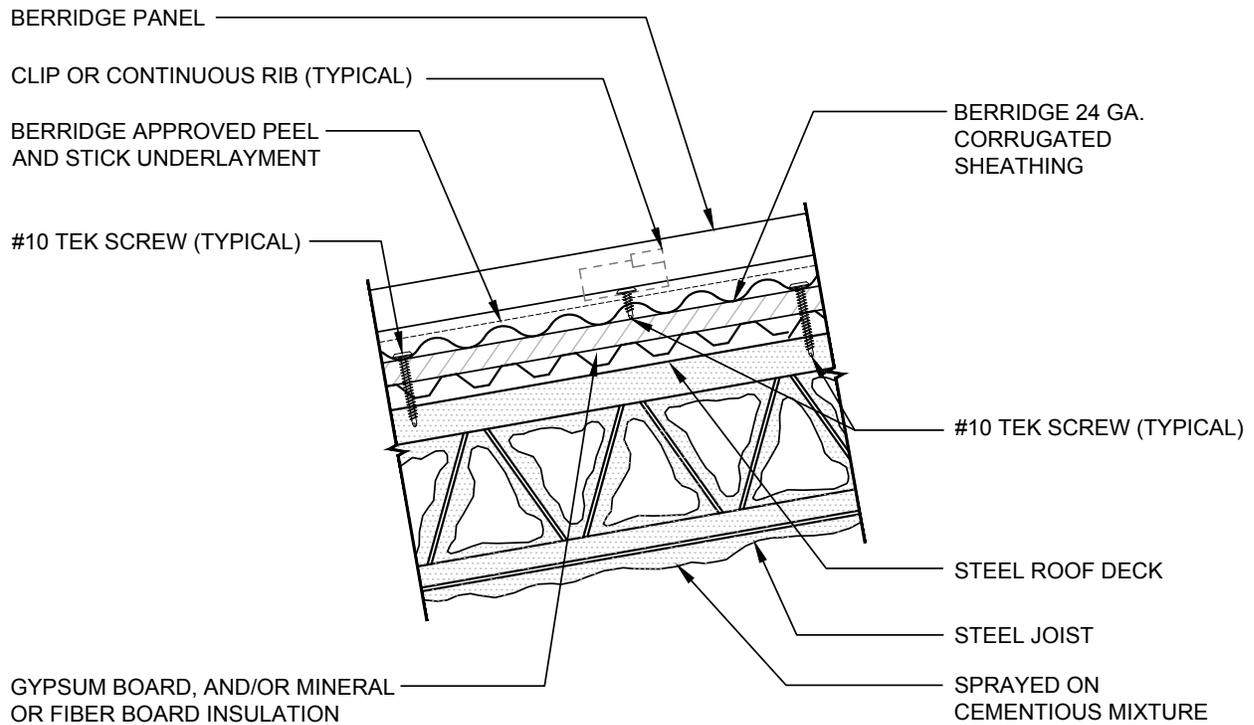
THIS ASSEMBLY QUALIFIED FOR U.L. DESIGN NO. P225, P230, P237, P250, P259, P508, P510, P514, AND P227 USING CELLULAR GLASS CLOCK IN LIEU OF MINERAL INSULATION BOARD.

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UL FIRE RESISTANCE ASSEMBLY



THIS ASSEMBLY QUALIFIED FOR U.L. DESIGN NO. P701, P711, P713, P717, P719, P720, P722, P723, P726, P731, P732, P734, P801, P815, P819, AND P824 ONLY USING SPRAYED-ON FIBER IN LIEU OF CEMENTIOUS MIXTURE.

GENERAL NOTES:

1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE TEE-PANEL, IN ORDER TO MAKE POSITIVE ATTACHMENT, MUST BE ATTACHED TO A CORRUGATED SUBSTRATUM (IF THE INSULATION SYSTEM HAS NO NAILABLE SURFACE). THE CORRUGATED SUBSTRATUM IS TO BE MOUNTED DIRECTLY TO THE INSULATION SYSTEM WITH FASTENERS FASTENED THROUGH INTO THE STRUCTURAL STEEL DECK.
2. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.

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TESTING SUMMARY CHART

■ - Steel only □ - Steel and Aluminum

STANDING SEAM ROOF PANELS	Wind			Fire		Impact	Wind		Wind and Water					Wind	FL PRODUCT APPROVAL	MIAMI DADE	TDI LISTED	ICC-ES Report	CEGS 07416	
	UL 580	UL 90	UL 1897	UL 790	UL 263	UL 2218	ASTM E-1592	ASTM E-330	ASTM E-2140	ASTM E-1646	ASTM E-1680	ASTM E-331	ASTM E-283	FM 4471						
Tee-Panel		□		□	■	□						□	□	□	□		■			
High Seam Tee-Panel*		□		□	■	□						□	□	□	□		■			
Tee-Lock Panel	□	□	□	□		□	■					□	□	□	□		■		□	
Cee-Lock Panel**	□	□	□	□	■	□	■					■	■	■	■		□	■	□	■
Zee-Lock Panel (Single Lock)**	■	■	■	□	■	□	■			■	■	■	■	■		■			■	■
Double-Lock Zee-Lock Panel**	□	■	□	□	■	□	■			■	■	■	■	■	■	□	■	□	■	■
OTHER ROOF SYSTEMS	UL 580	UL 90	UL 1897	UL 790	UL 263	UL 2218	ASTM E-1592	ASTM E-330	ASTM E-2140	ASTM E-1646	ASTM E-1680	ASTM E-331	ASTM E-283	FM 4471	FL PRODUCT APPROVAL	MIAMI DADE	TDI LISTED	ICC-ES Report	CEGS 07416	
Bermuda Roof Panel		■		■		■									■					
Spanish Tile Roof System	■		■	■		■									■			■		
S-Tile Roof Panel	■		■	■		■	■								■	■		■		
Batten Seam Roof System		■		■	■	■									■					
Victorian & Classic Shingles	■		■												■	■		■		
Fish Scale																				
Curved Flat Seam Panel																				
"M" Panel		■		■		■									■					
"R" Panel		■		■		■									■					
Deep Deck Panel		■		■		■	□			□	□				□					
S-Deck				■		■	□								□				■	
Double Rib Panel		■		■		■									■					
FASCIA, WALL & SOFFIT PANELS	UL 580	UL 90	UL 1897	UL 790	UL 263	UL 2218	ASTM E-1592	ASTM E-330	ASTM E-2140	ASTM E-1646	ASTM E-1680	ASTM E-331	ASTM E-283	FM 4471	FL PRODUCT APPROVAL	MIAMI DADE	TDI LISTED	ICC-ES Report	CEGS 07416	
HS Panels***							□						□	□	□			□		
HR-16 Panel							□						□	□	□	■		■		
HC-16 Panel***							□						□	□	□					
Vee-Panel																				
FW Panels							□						□	□	□	■		□		
L-Panel							■									■		■		
B-6 Panel								■												
Flush Seam								■					■		■					
Thin-Line								■							■					
Fluted Fascia Panel								■							■					

For actual test results, technical questions, fastener types, fastener spacing or job-specific engineering, please contact the Berridge technical department at (800) 669-0009 or technical@berridge.com. Updates and additional testing are added on a continual basis. Consult the Berridge technical department for the latest updates.

* 1" tall seam is UL-90 wind uplift approved for both steel and aluminum. 1 1/2" tall seam is UL-90 wind uplift approved for steel only

** Use continuous ribs for ASTM E-1646, ASTM E-1680, ASTM E-331, and ASTM E-283 compliance

*** See HR-16 Panel for test results on ASTM E-331 and ASTM E-283 with similar panel seams

Berridge Manufacturing Company is committed to supporting its customers with required testing and approvals to comply with the Florida Building Code. Please note that in addition to providing copies of Berridge testing and/or approvals, that additional requirements such as building calculations may also be required by state and local code authorities.

For the latest information on Florida Building Approval of Berridge roofing material, please consult the Florida Building Code website at: www.floridabuilding.org and click on Product Approval to search products by manufacturer name.

For your convenience PDF files of Florida Building Code testing documentation (UL and various Florida Testing services) for Berridge roofing, siding and soffit products can also be found at www.berridge.com in the Technical Bulletins section.

FLORIDA PRODUCT APPROVAL LISTED

STANDING SEAM METAL ROOFING PRODUCTS

Tee-Panel	Cee-Lock Panel	Curved Zee-Lock Panel
High Seam Tee-Panel	Zee-Lock Panel	Zee-Lock Double Lock Panel
Tee-Lock		

OTHER ROOF PRODUCTS

Spanish Tile	S-Tile	M-Panel
Victorian Shingles	Deep-Deck	R-Panel
Classic Shingles	Bermuda Panel	Double Rib Panel
S-Deck		

WALL PANELS

Flush Seam Panel	Fluted Fascia Panel	R-Panel
Thin Line Panel	FW-12 Panel	M-Panel
Flat Seam Panel	FW-1025 Panel	S-Deck
B-6 Panel	HS-8 & HS-12 Panels	HR-16 Panel
Deep-Vee Panel with Batten Seam	HC-16 Panel	

SOFFIT PANELS

FW-12 Panel	S-Deck	
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MIAMI DADE APPROVED PRODUCTS

STANDING SEAM METAL ROOFING PRODUCTS

Cee-Lock	Zee-Lock Double Lock	Curved Zee-Lock Double Lock
Zee-Lock		

OTHER ROOF PRODUCTS

Victorian Shingles	Classic Shingles	S-Tile
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WALL & SOFFIT PANELS

HR-16 Wall Panel	FW-12 Panel	L-Panel
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BERRIDGE MANUFACTURING COMPANY

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PAINT FINISH WARRANTY REQUEST FORM

IMPORTANT! All requests for warranties must be in writing and must include ALL the following information on the job for which the warranty is requested. Incomplete request forms cannot be processed and will be returned to the customer. No warranty of ANY kind will be issued until all Berridge Manufacturing Company invoices pertaining to the material work order(s) for the pertinent job are completed and paid in full. No warranty will be issued unless requested by the Berridge Customer within one year of the invoice date.

Name of person to direct questions to and to send warranty attention to: _____

Project completion date: _____

Number of warranty copies requested: _____

PLEASE TYPE OR PRINT CLEARLY!!!

Work Order No., Invoice No. & Invoice Date:	Color or Colors	Berridge Product or System	No.of Squares:
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

***Required BERRIDGE CUSTOMER**

Company: _____

Address: _____

City, State & Zip: _____

***Required BUILDING OWNER**

Company: _____

Address: _____

City, State & Zip: _____

***Required JOB NAME & PHYSICAL ADDRESS**

Company: _____

Address: _____

City, State & Zip: _____

***Required PROJECT ARCHITECT**

Company: _____

Address: _____

City, State & Zip: _____

The policy of Berridge Manufacturing Company is to send the Original Warranty to the Berridge Customer to whom the material was originally sold (as shown above). If the Original Warranty is to be mailed to someone other than the customer Berridge sold to, please supply Berridge with that information

OTHER PARTY TO SEND WARRANTY TO

(If this section is filled out, finish warranty will **NOT** be sent to Berridge Customer.)

Company: _____

Address: _____

City, State & Zip: _____

Please mail or fax completed Warranty Request Form to:

BERRIDGE MANUFACTURING COMPANY

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Kynar 500® or Hylar™ 5000 Limited Warranty

MATERIAL DESCRIPTION:

JOB NAME:

SOLD TO:

INVOICE NUMBER(S):

OWNER:

EFFECTIVE DATE:

DATE OF ISSUE:

Berridge Manufacturing Company warrants that Kynar 500® or Hylar 5000™ 70% full-strength Fluoropolymer finish will perform for twenty (20) years from date of installation as an effective surfacing material within the scope of the conditions and limitations defined in this warranty document:

EFFECTIVE SURFACING MATERIAL IS DEFINED TO MEAN:

1. Freedom from cracking, chipping or peeling due to the deterioration of the finish for a period of twenty (20) years from date of purchase, exclusive of mechanical damage or other abnormal contingencies. (See Para 2).
2. Freedom from any color changes in excess of 5 NBS Units (Using the NBS unit of color notation as measured on the MEECO Colormaster: ASTM-D-2244) for a period of twenty (20) years from date of purchase.
3. Freedom from chalking in excess of Number 8 Rating (ASTM-D-659-80) for a period of twenty (20) years from date of installation.

TERMS AND CONDITIONS OF WARRANTY:

1. Berridge shall not have any obligation under this Warranty until all invoices for installation, supplies and services have been paid in full to Berridge and to the Roofer.
2. **BERRIDGE HAS NO OBLIGATION NOR RESPONSIBILITY FOR DAMAGE TO FINISH OR MATERIALS CAUSED BY THE FOLLOWING CONDITIONS:**
 - A. Materials installed in corrosive or aggressive environments including, but not limited to, areas subject to marine conditions, salt water, salt water spray, chemicals, or harmful gases with the exception of normal air pollution.
 - B. Acts of God, falling objects, fire or external forces.
 - C. Abnormal or harmful gases, fumes or chemicals other than general air pollution.
 - D. Physical damage after installation, intentional or unintentional, whether caused by abuse, misuse, negligence, vandalism, or excessive foot traffic on roof area.
 - E. Any act or acts which damages finish after installation of materials on project.
 - F. Physical damage caused during the forming process due to machinery or roll forming process used.
 - G. Slopes of the roof or sections with inadequate drainage or otherwise as to allow standing water, puddling or staining.
 - H. Deterioration of finish or materials due to improper storage prior to or during installation process.
 - I. Deterioration of the finish or substrate caused by standing water or condensation.
 - J. Discoloration or damage to panel finish caused by failure to remove factory-applied protective strippable plastic film.

3. **CUSTOMER MUST NOTIFY BERRIDGE MANUFACTURING COMPANY IN WRITING WITHIN THIRTY (30) DAYS FROM DISCOVERY OF THE CONDITION WHICH IS THE BASIS OF ANY CLAIM AND ALLOW AN INSPECTION OF THE MATERIALS DURING NORMAL BUSINESS HOURS.**

4. **BERRIDGE MANUFACTURING COMPANY'S OBLIGATION WITH RESPECT TO THIS WARRANTY IS LIMITED AS FOLLOWS:**

- A. In the event of a valid claim, Berridge Manufacturing Company shall, at its option: a.) assume the reasonable costs to restore the finish on the materials; b.) furnish replacement materials; or c.) refund the original purchase price paid to Berridge for the materials less five percent (5%) for each year which has lapsed since the date of purchase of the materials.
- B. Berridge Manufacturing Company's maximum liability for any claim under this Limited Warranty will be the lesser of the three amounts calculated pursuant to a, b, or c of paragraph 4A above.
- C. It will be at the sole discretion of Berridge Manufacturing Company to determine which action will be taken with respect to any claim under this Limited Warranty.
- D. In no event shall Berridge Manufacturing Company's liability exceed the lesser of the cost of replacing or restoring the defective panels.
- E. The warranty on any repaired or replaced product shall be for the remainder of the warranty period applicable to the original purchase.
- F. **EXCEPT AS SET FORTH HEREIN, BERRIDGE MANUFACTURING COMPANY MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND HEREBY EXPRESSLY DENIES THE SAME.**
5. This warranty is tendered for the sole benefit of the original owner of the project named herein and is not transferable or assignable.
6. Berridge's only liability and responsibility is to the terms and conditions of this Warranty. This Warranty supersedes and is in lieu of any and all other warranties (whether express or implied) that are either in addition to or in conflict with the term(s) and condition(s) stated herein.
7. In the event a court of competent jurisdiction rules that any portion of this Limited Warranty is unenforceable, the remainder of this Limited Warranty shall be construed and enforced as if the stricken portion was not a part hereof originally.

BERRIDGE MANUFACTURING COMPANY | 2610 HARRY WURZBACH RD. SAN ANTONIO, TX 78209 | P: (210)650-3050 | F: (210) 650-0379

Rev 09/17/2019 - 20YR Kynar Warranty

BERRIDGE MANUFACTURING COMPANY

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BERRIDGE MANUFACTURING COMPANY WATERTIGHTNESS WARRANTY PROCEDURES & REQUIREMENTS

The actual process of approving a proposed project for issuance of a Berridge Watertightness Warranty begins in advance of purchasing and installing material. The roofer/installer must submit architectural plans, general notes of structural drawings and specifications to Berridge for a ruling as to the feasibility of engaging in the process of a watertightness warranty. Because Berridge may require additions and or changes to the roof design, the submittal of plans and specs must be made prior to bidding the project.

A letter of acceptance or non acceptance of the roof design will be sent to the roofer/installer. This letter will state the accepted roof assembly (if the roof design is accepted), and include any general required additions to the roof plans. Along with the letter of acceptance Berridge will send a confirmation of order for a Berridge Watertightness Warranty (see “Shop Drawings Guidelines”, “Pre-installation Inspection Guide” and “Post-installation Inspection Guide” in this section).

The application form (see sample on page 53) for a Berridge Watertightness Warranty will be the roofer/installers formal request for Berridge to commence in the processing of a watertightness warranty file for the said project. The information requested for in the application form is to aid Berridge to more efficiently carry out all steps of the warranty program. It is important that all information requested in the application form be provided as quickly as possible including the required attachments. Failure to submit required information and attachments (as requested in application form) will cause a delay in the issuing of the warranty or possibly cause Berridge to not issue the warranty.

The review of the architectural drawings is for feasibility of specified Berridge panel system. A review of shop drawings for the project is also required. The shop drawing submittal must include the following and will be reviewed for such: name and location of the project, installation instructions for the general handling and installation of panels, flashing, underlayment and fasteners (Berridge has produced such instructions for its roof systems and with a degree of modification can be tailored to meet the requirements of individual projects). For felting details, Berridge’s typical felting details with a degree of modification can be used; note that Berridge approved peel and stick may be required as underlayment. A roof plan with all roof slopes and detail section cuts called out is required. Every flashing detail must show the relationship between the roof panel, panel clips, flashings, fasteners, underlayment, caulking and the building. See the “Shop drawings Guidelines” in this section for a detailed outline of shop drawing requirements.

Please note a copy of the Berridge approved shop drawings must be on the project site. **The roof installation must be as per the set of Berridge approved shop drawings.** Failure to install the roof per Berridge approved shop drawings may be grounds for not issuing the warranty.

During the field inspections the decking and or purlin structure, underlayment, panel installation, flashings, caulking, valleys, penetrations and all areas of the roof which will be covered by the roof panels will be inspected. This inspection will be for compliance to the Berridge approved shop drawings and general construction practices. See the “Pre-Installation Inspection Guide” and “Post Installation Inspection Guide” in this section for a detailed outline of inspections. A field report will be written and sent to the roofer/installers. This report will cover all areas of the roof which were inspected and any required modifications to the installation to bring it in compliance with the Berridge approved shop drawings.

The process of issuing the warranty will begin when the roof installation is complete and in compliance with the Berridge approved shop drawings. This process will include a review of the items covered in this letter, a review of payment for materials, equipment and services and the issuing of the Watertightness Warranty for signatures.

Three copies of the Watertightness Warranty will then be sent for signature, typewritten name, title and date of signature to be provided by the Roofing Contractor and building/facility Owner where indicated on the back side of all three (3) copies of this warranty, after which all three (3) copies are to be returned to Berridge Manufacturing for final approval and acceptance. After Berridge’s approval and acceptance of the warranty, two (2) copies will be returned to the Roofing Contractor for their distribution.

This letter and following exhibits are to aid you in understanding Berridge’s approach to watertightness warranties.

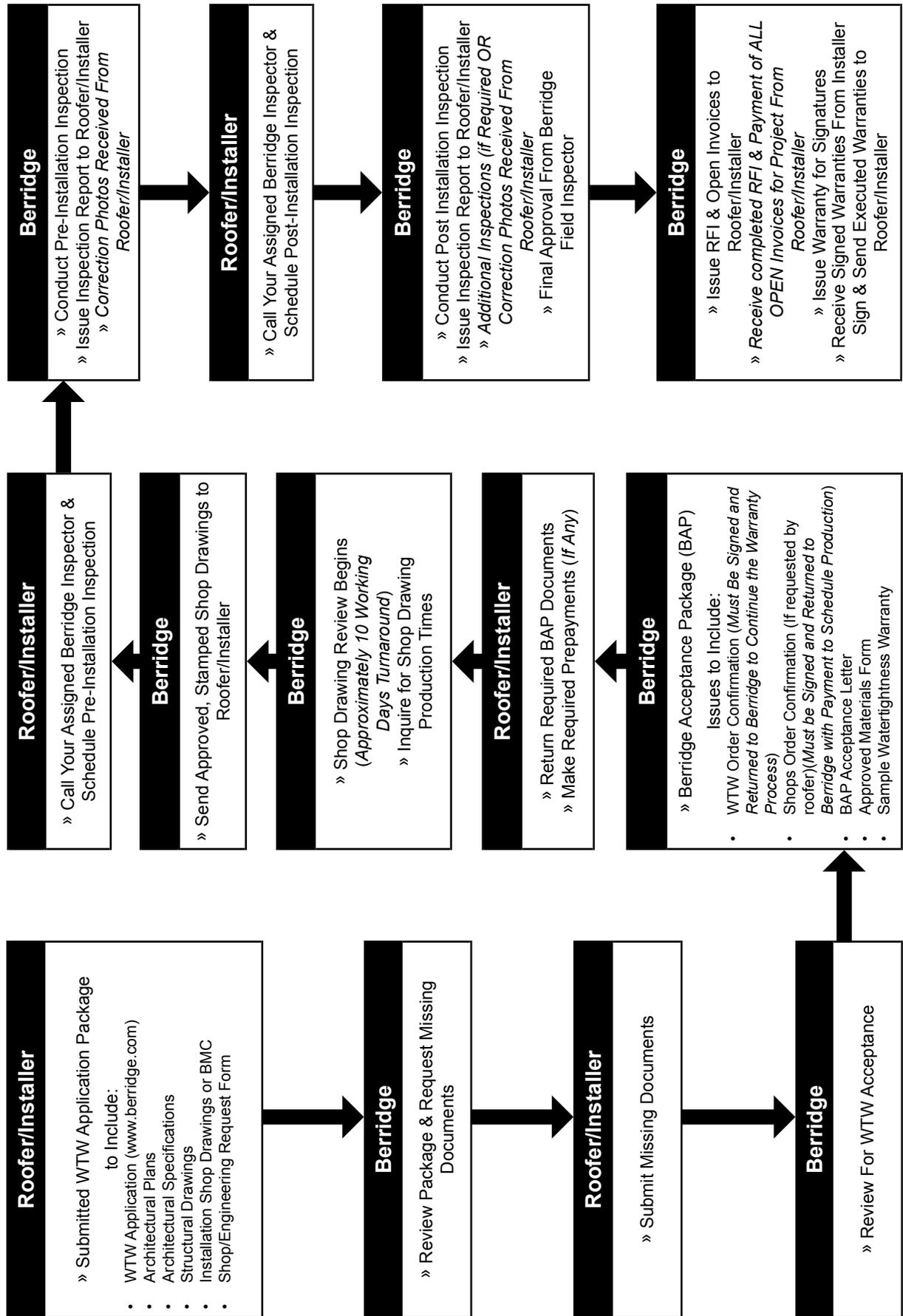
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WATERTIGHTNESS WARRANTY PROGRAM

BERRIDGE WATERTIGHTNESS WARRANTY PROCESS PROCEDURAL FLOWCHART



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FREQUENTLY ASKED QUESTIONS

1	<p>Q: <i>What do I need to do to get a watertightness warranty from Berridge?</i> A: Review the steps on the previous page.</p>
2	<p>Q: <i>What needs to be submitted to Berridge for watertightness warranty projects?</i> A: Roofer/Contractor needs to submit the following items pertaining to the roof: Architectural Plans, General Notes of Structural Drawings, Specifications, a completed watertightness warranty application form, (2) sets of shop drawings, installer standard 2-year roof warranty, and a job reference list of a minimum of 10 projects. The credit department will require current financial statements for watertightness warranty approval. Submit current financial statement at the earliest opportunity as not to delay watertightness warranty approval.</p>
3	<p>Q: <i>What is Berridge looking for in a shop drawing submittal from the roofer/contractor?</i> A: Berridge must have a roof plan of the project, with each detail called out on the roof plan, along with each of the details pertaining to the roof plan. The shop drawings may be hand drawn or done in AutoCAD. A shop drawing checklist stating requirements is available online under Warranties > Frequently Asked Questions.</p>
4	<p>Q: <i>How is the review of the roofer/contractor shop drawings performed?</i> A: All submitted shop drawings are reviewed based on the Berridge's Typical Installation details found at www.berridge.com</p>
5	<p>Q: <i>What details are warrantable by Berridge for a watertightness warranty?</i> A: Berridge will warrant any of the Typical Installation details posted on our website.</p>
6	<p>Q: <i>What if I have a detail not listed in the Berridge Typical Installation details?</i> A: The roofer/contractor must submit the detail in question to Berridge for approval, in which Berridge will respond in writing back to the roofer/contractor with a decision.</p>
7	<p>Q: <i>Does Berridge offer manufacturer's shop drawings?</i> A: Yes, Berridge does offer manufacturer's shop drawings. This service is provided for a fee. This fee is based on the complexity of the project. Use form on page 59 to request this service.</p>
8	<p>Q: <i>Where can I obtain a Berridge watertightness warranty application form?</i> A: You can find the warranty application online under Warranties > Watertightness Warranty Application.</p>
9	<p>Q: <i>Does Berridge perform watertightness warranty inspections?</i> A: Yes, typically two watertightness warranty inspections are performed on each watertightness warranty project. An inspection checklist stating requirements is available on the Berridge web site.</p>
10	<p>Q: <i>How do I set up a watertightness warranty inspection?</i> A: Upon approval of the project for a watertightness warranty, contact information for the inspector will be provided. The inspector will need to be contacted at least two weeks in advance of the requested inspection date.</p>
11	<p>Q: <i>Does Berridge have a roofer/contractor certification program?</i> A: Yes, Berridge provides a Roof Training Seminar. Cost is \$350/attendee. Visit www.berridge.com for more information.</p>
12	<p>Q: <i>What warranty durations are offered By Berridge?</i> A: 2YR, 5YR, 10YR, 15YR, and 20YR. Full System (20YR-NDL) and Single Source Warranties are also available.</p>
13	<p>Q: <i>What does a Berridge watertightness warranty cover?</i> A: Berridge watertightness warranties cover the materials provided by Berridge, and the installation of those materials.</p>
14	<p>Q: <i>What roof panel systems are warranted?</i> A: Tee-Panel, Curved Tee-Panel, High Seam Tee-Panel, Tee-Lock, Cee-Lock, Zee-Lock, Curved Zee-Lock, Double Lock Zee-Lock, Batten Seam Panel, and Spanish Tile systems.</p>
15	<p>Q: <i>What wall panel systems are warranted?</i> A: The Berridge Watertightness Warranty Program is primarily for metal roof applications. Consult Berridge for watertightness warranties for wall panel systems. Plans and specifications must be submitted to Berridge for review and approval prior to bid date.</p>
16	<p>Q: <i>Is the vinyl weatherseal required for a watertightness warranty?</i> A: Yes, Berridge Vinyl Weatherseal is required.</p>
17	<p>Q: <i>What panel systems require Berridge Vinyl Weatherseal?</i> A: Tee-Panel, Curved Tee-Panel, Tee-Lock, Cee-Lock, Zee-Lock, and Curved Zee-Lock panel systems require the Vinyl Weatherseal. Note, the Berridge Double Lock Zee-Lock and Zee-Lock with Batten are NOT available with Vinyl Weatherseal.</p>

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18	<p>Q: <i>What panel systems require the use of the continuous rib?</i></p> <p>A: Cee-Lock, Zee-Lock, and Double Lock Zee-Lock panel systems require the use of the continuous rib.</p>																						
19	<p>Q: <i>What underlayment materials are approved by Berridge for a watertightness warranty?</i></p> <p>A: Underlayment materials approved by Berridge for a watertightness warranty include – Tamko Tile & Metal Underlayment (75 mil), Tamko TW Underlayment (40 mil), Mid-States Asphalt Quik-Stick HT Pro (60 mil), Soprema Lastobond Shield HT (40 mil), Grace Ice & Watershield (40 mil), Grace Ultra (30 mil), Grace Ice & Water Shield HT (40 mil), MFM Ultra HT Wind & Water Seal (45 mil), Polyglass Polystick MTS (60 mil), and 30# felt with Berridge felt caps. Note that any underlayment not listed above will require prior approval in writing from Berridge before use.</p>																						
20	<p>Q: <i>What is the minimum slope to use 30# felt?</i></p> <p>A: 3:12 is the minimum slope that 30# felt can be used. A 3:12 or less roof slope will require 2 layers of 30# felt, or 1 layer of a Berridge approved peel & stick shield product. Underlayment details are provided at www.berridge.com.</p>																						
21	<p>Q: <i>When is a Berridge approved peel & stick product required?</i></p> <p>A: A Berridge approved peel & stick shield is required at all curved and tapered roof applications, and should be used at all critical areas such as hips, skylights, valleys, ridges, dormers, rake edges (gables), eaves, low slope areas, and slope changes or tie-ins. A Berridge approved peel & stick shield product may be substituted for the 2 layers of 30# felt on slopes 3:12 or less.</p>																						
22	<p>Q: <i>Can I put a Berridge approved peel & stick over 30# felt?</i></p> <p>A: No, a Berridge approved peel & stick should be applied to the roof deck first, and then 30# felt may be applied if needed.</p>																						
23	<p>Q: <i>What sealants are approved by Berridge for a watertightness warranty?</i></p> <p>A: Tremco Spectrem 1, Pecora 890 NST, DOW 790, Duralink, Titebond Metal Roof Sealant, and Triangle APS 500. Any sealant not listed will require prior approval in writing from Berridge before use.</p>																						
24	<p>Q: <i>How long will it take to get an alternate product, i.e. underlayment or sealant, approved for a watertightness warranty?</i></p> <p>A: Berridge will need to test the products abilities for use with our metal roofing products. Usually the testing duration will take up to and beyond the exposure limits of the product.</p>																						
25	<p>Q: <i>What is the minimum slope requirement for a Berridge watertightness warranty?</i></p> <p>A: Minimum slope requirement is 3:12. Consult Berridge on roof slopes less than 3:12.</p>																						
26	<p>Q: <i>What are the minimum radii of Berridge curved roof panels?</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Panel System</th> <th style="width: 20%;">Convex</th> <th style="width: 15%;"></th> <th style="width: 20%;">Concave</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>Curved Tee-Panel</td> <td>Min. 4'</td> <td rowspan="5" style="text-align: center; vertical-align: middle;"></td> <td>Min. 6'</td> <td rowspan="5" style="text-align: center; vertical-align: middle;"></td> </tr> <tr> <td>Curved High Seam Tee-Panel (1" Legs)</td> <td>Min. 5'</td> <td>Min. 8'</td> </tr> <tr> <td>Curved High Seam Tee-Panel (1-1/2" Legs)</td> <td>Min. 8'</td> <td>NA</td> </tr> <tr> <td>Curved Zee-Lock (Single Lock)</td> <td>Min. 20'</td> <td>NA</td> </tr> <tr> <td>Curved Zee-Lock (Double Lock)</td> <td>Consult BMC</td> <td>NA</td> </tr> </tbody> </table>	Panel System	Convex		Concave		Curved Tee-Panel	Min. 4'		Min. 6'		Curved High Seam Tee-Panel (1" Legs)	Min. 5'	Min. 8'	Curved High Seam Tee-Panel (1-1/2" Legs)	Min. 8'	NA	Curved Zee-Lock (Single Lock)	Min. 20'	NA	Curved Zee-Lock (Double Lock)	Consult BMC	NA
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27	<p>Q: <i>What roof applications are not warrantable applications for the Berridge Watertightness Warranty Program?</i></p> <p>A: Custom sheet metal roof applications such as domes, tapered panels or roof designs with drainage problems are not warrantable applications for the Berridge Watertightness Warranty Program.</p>																						
28	<p>Q: <i>Why are 2 clips required at the eave or at the end of any Tee-Panel or Curved Tee-Panel Snap-On Seam?</i></p> <p>A: The 2 Tee-Clips aid in the holding capacity of the Snap-On Seam at the ends to prevent the seam from riding up over years of thermal movement in the panel system.</p>																						
29	<p>Q: <i>Are 2 Tee-Clips required at a Snap-On Seam splice?</i></p> <p>A: Yes, 2 Tee-Clips are required on both sides of the Snap-On seam splice, 2 clips above and 2 below the seam splice.</p>																						
30	<p>Q: <i>Why are 2 clips required at the end of the panel for the Cee-Lock panel?</i></p> <p>A: The 2 clips aid in the holding capacity of the panel at the ends to prevent the panel from riding up over years of thermal movement in the panel system.</p>																						
31	<p>Q: <i>What clip spacing do I need to use for the Berridge Tee-Panel or Cee-Lock panel systems?</i></p> <p>A: Clip spacing is job specific. Wind uplift requirements set forth in the project specifications will be the determining factor for the clip spacing on each project. Contact the Berridge Engineering Department at (800) 669-0009 for more information.</p>																						
32	<p>Q: <i>Does Berridge offer engineering services?</i></p> <p>A: Yes, Berridge does perform engineering services. This service is provided for a fee. Contact the Berridge Engineering Department at (800) 669-0009 for more information and use form on page 55 to request this service.</p>																						

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WATERTIGHTNESS WARRANTY APPLICATION FORM

SEPARATE APPLICATIONS ARE REQUIRED WHEN MULTIPLE BUILDINGS REQUIRE SEPARATE WARRANTIES

2-Year
 5-Year
 10-Year
 20-Year
 Other
 NDL

PROJECTED ROOFING START DATE: _____
 (STARTING DATE OF DRY-IN)

PROJECTED COMPLETION DATE: _____
 (ROOFING 100% COMPLETE)

BUILDING OWNER

BUILDING OWNER: _____
 ADDRESS: _____
 CITY/STATE/ZIP: _____
 BUILDING NAME: _____
 BUILDING ADDRESS: _____
 CITY/STATE/ZIP: _____

ARCHITECT

COMPANY NAME: _____
 CONTACT: _____
 ADDRESS: _____
 CITY/STATE/ZIP: _____
 PHONE: _____
 FAX: _____

ROOFING INSTALLER

COMPANY NAME: _____
 CONTACT: _____
 PHYSICAL ADDRESS: _____
 CITY: _____
 STATE/ZIP: _____
 PHONE: _____ FAX: _____
 EMAIL: _____

GENERAL CONTRACTOR

COMPANY NAME: _____
 CONTACT: _____
 ADDRESS: _____
 CITY: _____
 STATE/ZIP: _____
 PHONE: _____
 FAX: _____

JOB DATA

NUMBER OF ROOFING SQUARES: _____ PANEL TYPE: _____ COLOR: _____
 DECK ASSEMBLY: _____ UPLIFT RATING: _____

ATTACHMENTS & OTHER REQUIREMENTS FOR THIS APPLICATION

REQUIRED FOR ALL WATERTIGHTNESS WARRANTY PROJECTS

- A SET OF ARCHITECTURAL SPECIFICATIONS AND PLANS SHOWING ROOF PLAN, ALL ELEVATIONS, & ROOFING DETAILS, GENERAL NOTES OF STRUCTURAL DRAWINGS, ECT. MUST BE SUBMITTED PRIOR TO BID DATE FOR ACCEPTANCE OF PROJECT.
- TWO (2) SETS OF SHOP DRAWINGS, PREPARED IN ACCORDANCE WITH BERRIDGE REVIEW OF ARCHITECTURAL PLANS, BERRIDGE STANDARD DETAILS, AND SHOP DRAWING CHECKLIST
- NAME OF FOREMAN FOR THIS PROJECT. RESUME OF EXPERIENCE WILL BE REQUIRED IF NOT ON FILE AT BERRIDGE MFG CO.

 (Name of Foreman for this Project)
- BERRIDGE ROOFING SEMINAR CERTIFICATION OF COMPLETION

REQUEST FOR TECHNICAL DOCUMENTS BERRIDGE TO PROVIDE QUOTE FOR

- SHOP DRAWINGS WITH ENGINEERING SEAL
- SHOP DRAWINGS WITH OUT SEAL
- SEALED ENGINEERING CALCULATIONS
- LIST OTHER PANEL SYSTEMS REQUIRING SHOP DRAWINGS _____

You will be sent an order confirmation billing you for the warranty fee. Consult your sales representative for pricing.

RETURN APPLICATION : email -- wtw@berridge.com
Berridge Mfg Co
 1720 Maury Street fax: (713) 236-9422
 Houston, TX 77026

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20-YEAR WATERTIGHTNESS WARRANTY SAMPLE

BERRIDGE MANUFACTURING COMPANY 20-YEAR WATERTIGHTNESS LIMITED WARRANTY

Building Owner: _____ Berridge Work Order Number: _____
Building /Job Name: _____ Date Roof Completed: _____
Building Location: _____ Berridge Material Furnished (sqft): _____

Berridge Manufacturing Company (hereinafter referred to as "Berridge") and the Roofing Contractor/Installer whose signature appears below (hereinafter referred to as "Roofer") severally warrant [Roofer only for any matter arising during the first two years after completion of installation of the subject roof on the above referenced Building and Berridge only for any matter first arising after the second anniversary of successful completion of installation of the subject roof but arising not later than the twentieth anniversary of such completion] to the above-named Building Owner (hereinafter referred to as "Owner") that subject to each and every term(s), condition(s), limitation(s), allocation(s) of warranty, and responsibility(ies) stated herein, Roofer's workmanship on the above-named building will be adequate to prevent leaks for 20 years commencing with the date of completion of installation of the Roofing System. This warranty will be fully satisfied by repair of the Roof, and any such repairs shall carry a warranty against leaks only for any then remaining balance of the original 20-year warranty period.

BERRIDGE'S AND ROOFER'S AGGREGATE TOTAL CUMULATIVE LIABILITY UNDER THIS 20-YEAR WATERTIGHTNESS LIMITED WARRANTY IS LIMITED TO THE DOLLAR AMOUNT OF THE OWNER'S ORIGINAL PAYMENT MADE TO THEM FOR MATERIALS FURNISHED BY BERRIDGE ONLY AND FOR THE INSTALLATION OF THOSE MATERIALS ONLY. NEITHER BERRIDGE NOR ROOFER MAKES ANY OTHER WARRANTY WHATEVER, EXPRESS OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE WHICH EXCEED OR DIFFER FROM THE WARRANTIES HEREIN EXPRESSED ARE DISCLAIMED BY EACH AND ALL OF SAID PARTIES AND EXCLUDED FROM THIS 20-YEAR WATERTIGHTNESS LIMITED WARRANTY. BERRIDGE DOES NOT IN ANY WAY WARRANT THE MERCHANTABILITY OF THE GOODS SOLD HEREBY. NO WARRANTIES EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

IN NO EVENT SHALL ANY ONE OR MORE OF BERRIDGE AND ROOFER HAVE ANY LIABILITY FOR ANY COMMERCIAL LOSS, CLAIMS FOR LABOR, OR CONSEQUENTIAL DAMAGES OF ANY OTHER TYPE. WHETHER OWNER'S CLAIM BE BASED IN CONTRACT, TORT, WARRANTY, STRICT LIABILITY, OR OTHERWISE, IT IS EXPRESSLY AGREED THAT OWNER'S REMEDIES EXPRESSED IN THIS 20-YEAR WATERTIGHTNESS LIMITED WARRANTY ARE OWNER'S EXCLUSIVE REMEDIES.

TERMS, CONDITIONS, LIMITATIONS

1. Owner shall provide Berridge and Roofer with written notice within thirty (30) days of the discovery of any leak(s) in the Roof. Failure of the Owner to do so shall automatically relieve both Berridge and Roofer of any and all responsibility and/or liability under this 20-year Watertightness Limited Warranty.
2. In the event a roof repair is necessary during the first two-year period or any extension thereof, the Roofer's responsibility [which shall be in lieu of any and all Berridge liability during such period and any such extension(s)] shall be extended for a two-year period from the date of the last such repair. In any such case, Berridge will be responsible only for the balance remaining after the end of such period and any and all extension(s) of the original twenty (20)-year period from the date of completion of installation of the subject Roofing System.
3. If upon Berridge's inspection, Berridge determines that the leak(s) in the Roof are caused by defects in Berridge materials or in the workmanship of the Roofer, Roof repair obligations shall then arise in accordance herewith, but Owner's remedies and Berridge's liability shall in any event be limited to repair of the Roof, subject to the cost limitations set forth above. Otherwise, neither Berridge nor Roofer shall have any liability. The Roofer's two-year liability (which is in lieu of any and all Berridge liability for such period) shall be extended an additional two years from date of last repair, should such repairs be necessary during the first two years of the Roofer's liability or during any extension thereof.
4. Neither Berridge nor Roofer shall have any liability or responsibility under or in connection with either this 20-Year Watertightness Limited Warranty or the Roof, if any one or more of the following shall occur:
 - (a) Deterioration caused by marine (salt water) atmosphere or by regular spray of either salt or fresh water.
 - (b) Corrosion caused by heavy fallout or exposure to corrosive chemicals, ash or fumes from any chemical plant, foundry, plating works, kiln, fertilizer manufacturing, paper plant, and the like.
 - (c) Deterioration caused by any corrosive substance or any condensate of any harmful substance contained, generated or released inside the building.
 - (d) Damage caused by worker(s) on the roof.
 - (e) Any other cause beyond Berridge's control.
 - (f) Damage to the Roof caused by natural disasters, including, but not limited to, lightning, or any strong gale, hurricane, tornado, or earthquake.
 - (g) Failure by any contractor or subcontractor to follow Berridge's recommended installation instructions for the layout, design and installation of the Roof.

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20-YEAR WATERTIGHTNESS WARRANTY SAMPLE

(h) If, after installation of the Roof by Roofer, there are any alterations, such as, but not limited to, structures, fixtures, or utilities being placed upon or attached to the roof without prior written authorization from Berridge, or

(i) If there is any failure by the Owner or lessee or other occupant or user to use reasonable care in maintaining the Roof, or

(j) If Owner fails to comply with every term and/or condition stated in this 20-Year Watertightness Limited Warranty, or

(k) If any panels or other parts are installed in a manner that does not permit drainage of water from all surfaces.

(l) Berridge shall not have any liability or responsibility with leakage caused by ridge vents.

(m) Berridge shall not have any liability or responsibility with failure of gutters and gutter accessories.

(n) Failure of roofing installation and the materials supplied by Berridge for the flashings and metal roofing due to reaction of dissimilar metals will not be the responsibility of Berridge and Berridge will not be held liable for any claims due to failures caused by dissimilar metals.

5. Berridge shall not have any liability or responsibility under or in connection with either this 20-Year Watertightness Limited Warranty or the Roof in the event of a failure by any contractor or subcontractor to use approved installation details for roof curbs, roof jacks, sealants, mastics, subframing, and flashing furnished by Berridge, [or to substitute therefor only products approved in writing in advance by Berridge as equal (if provided by the contractor or subcontractor)].

6. During the term of this Warranty, Berridge, its Sales Representatives and employees, shall have free access to the roof during regular business hours.

7. Berridge shall not have any obligation under this 20-Year Watertightness Limited Warranty until (a) Shop drawings outlining the application of roofing materials are submitted to Berridge by the Roofer and accepted in writing by Berridge. Such drawings must show the exact number, size and location of all roof penetrations and rooftop equipment and (b) Photographs of the roof installation showing the items described in subparagraph (a) above as well as any items required in Berridge field inspection reports are submitted to Berridge by the Roofer.

8. This Warranty is not valid until a fully executed original has been returned to Berridge

9. Berridge shall not have any obligation under this 20-Year Watertightness Limited Warranty until all invoices for installation, supplies and services have been paid in full to each of Berridge and Roofer and each material supplier.

10. Neither Berridge nor Roofer shall be responsible for any consequential damages or loss to the building, its contents or other materials.

11. Neither Berridge nor Roofer's failure at any time to enforce any of the terms or conditions stated herein shall be construed to be a waiver of such provision or of the right to exercise any right in the future.

12. This 20-Year Watertightness Limited Warranty supersedes and is in lieu of any and all other warranties (whether express or implied) that are either in addition to or in conflict with the term(s) and condition(s) stated herein. **ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE WHICH EXCEED OR DIFFER FROM THE WARRANTIES HEREIN EXPRESSED ARE DISCLAIMED BY EACH AND ALL OF SAID PARTIES AND EXCLUDED FROM THIS 20-YEAR WATERTIGHTNESS LIMITED WARRANTY.**

13. If the subject roof is covered by products of more than one roofing products manufacturer, this 20-Year Watertightness Limited Warranty applies only to those portions of such roof which are covered solely by Berridge manufactured products.

14. Notwithstanding any other provision of this 20-Year Watertightness Limited Warranty, Berridge shall not have any liability or responsibility at any time for or as a consequence of any condensation or underside corrosion which is or was caused at any time in part or wholly by any condensation resulting from either or both of the following: (a) The use of an inadequate vapor barrier where the insulation is installed immediately beneath the roof panels. An adequate vapor barrier is defined as one which has a perm rating of .05 or less with sealed joints and perimeter. (b) Inadequate ventilation of the attic space between a roof panel and insulation, when insulation is installed directly on top of an existing roof.

15. Roofing installation must be supervised by an authorized Berridge Installer or an individual that has been factory trained in the installation of Berridge roofing products.

16. Berridge roof panels must be made of a material supplied by Berridge or approved by Berridge.

WARRANTY RESPONSIBILITY:

1st through 2nd Year, plus any applicable extension period(s) as described hereinabove: — ROOFER

The thereafter remaining balance of the first 20 years from date of completion of installation of the subject Roof. — BERRIDGE MFG. CO.

This 20-Year Watertightness Limited Warranty is tendered for the sole benefit of the original purchaser as named below and is not transferable or assignable. It becomes valid only when signed by each of Roofer, Owner and Berridge.

EXCEPT ONLY AS EXPRESSLY PROVIDED HEREIN, BERRIDGE MAKES NO REPRESENTATION(S) OR WARRANTY(IES) OF MERCHANTABILITY AND WARRANTY(IES) OF FITNESS FOR ANY PARTICULAR PURPOSE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED, WITH RESPECT TO THE GOODS AND/OR SERVICES COVERED HEREBY. NOR DOES BERRIDGE MAKE ANY WARRANTY OR ASSUME ANY OBLIGATION WITH RESPECT TO THE VALIDITY OF ANY PATENT(S), DESIGN(S), COPYRIGHT(S), OR TRADEMARK(S) WHICH MAY COVER ANY OF SUCH GOODS. THE CONDITIONS OF LIABILITY, RIGHTS, OBLIGATIONS AND REMEDIES OF THE PARTIES RELATING TO CLAIMS ARISING FROM ANY DEFECTIVE GOODS AND/OR WORKMANSHIP SHALL BE GOVERNED EXCLUSIVELY BY THE TERMS HEREOF. THIS 20-YEAR WATERTIGHTNESS LIMITED WARRANTY MAY NOT BE CHANGED ORALLY.

This 20-Year Watertightness Limited Warranty shall be governed by and construed and enforced in accordance with the laws of the State of Texas. Berridge, Roofer and Owner specifically agree that any legal action brought relating to this Warranty will be brought and tried in the United States District Court For the Southern District of Texas, Houston Division, or, in absence of federal jurisdiction, in a District Court of Harris County, Texas, in Houston, Texas.

Roofing Contractor/Installer:

Company Name _____

Signature _____

Typewritten Name _____ Title _____ Date _____

Owner:

Company Name _____

Signature _____

Typewritten Name _____ Title _____ Date _____

Berridge Manufacturing Company _____ Date _____

BERRIDGE MANUFACTURING COMPANY

2610 Harry Wurzbach Road, San Antonio, TX 78209 | 800-669-0009 | Fax 210-650-0379

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SHOP DRAWING GUIDELINES

Please use this checklist as a guide to help prepare shop drawings:

- Name and location of project and name of roofing installer printed on every page

INSTALLATION INSTRUCTIONS

- Written instructions for the general handling and installation of panels, flashing, underlayment and fasteners (Berridge has produced such instructions for its roofing systems and with a degree of modification can be tailored to meet the requirements of individual projects)

UNDERLAYMENT

- Underlayment details showing type of underlayment, method of installation and how underlayment is installed in relationship to flashings, decking, blocking, etc. (Berridge has produced such details for its roofing systems and with a degree of modification can be tailored to meet the requirements of individual projects)

ROOF PLAN

- Roof plan shows all roof slopes
- Berridge panel system(s) called out on roof plan
- Roof plan shows all roof penetrations (plumbing stacks etc.)
- Detail section cuts called out for every detail

PANEL(S) OVERVIEW

- Section of panel with dimensions of panel, seams, type of clip or continuous rib and type of vinyl weatherseal

DETAILS

Each detail shall show and have explanatory notes on the following:

- Panel system
- Type of clip or continuous rib (2 clips are required at eave and valley)

- Vinyl weatherseal
- Substructure, open framing purlins, solid sheathing
- Underlayment type called out and locations shown
- Additional layers of underlayment required at eave, valley, gable, etc. refer to Berridge typical details
- Flashings and counter flashings
- Flashing laps called out to a minimum of 4", 12" for valleys
- Laps caulked w/ Berridge approved caulk.
- Spacing of fasteners at flashings
- Any field work such as cutting or forming of panels or flashings
- All components required to produce a functional and aesthetically pleasing roof system

The panel and underlayment requirements will be determined during the Berridge Manufacturing Co. review of the Architectural drawings. Please refer to these requirements during your production of shop drawings. Submit (2) sets of shop drawings along with an Application Form for a Berridge Watertightness Warranty for review and approval.

Shop drawings must show the relationship between the roof panel, panel clips/rib, flashings, fasteners, underlayment, caulking, penetrations the building, and all areas of the roof.

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PRE-INSTALLATION INSPECTION GUIDE

Please use this checklist as a guide for inspection preparations:

First “pre-installation” inspection, substructure, underlayment, trim/flashing installation, etc. During the inspection, a foreman or project manager from the roofing installer is to accompany the Berridge inspector at the job site, access is to be provided by the roofing installer to all roof surface and on all buildings.

- Berridge Manufacturing Co. approved shop drawings are on the job site
- Use Berridge galvanized cap washers to prevent tear thru
- Flashings lapped a minimum 4”, valley 12”

SUBSTRUCTURE

- Sheathing and/or purlins in plane
- Sheathing end joints meet at joist
- Sheathing meets (no gaps) at hips, ridges, valleys eave, etc.
- Sheathing and/or purlins in same plane w/ fascia, rake, eave, etc.
- Insure solid sheathing is used under all valleys
- Install underlayment at valleys first
- Install underlayment parallel to eave, starting at eave
- Additional layers of underlayment required at eave, valley, gable, etc. Refer to Berridge approved shop drawings
- Underlayment is in good condition; tears, holes, dried out, wrinkling, etc. has been repaired or replaced
- Laps caulked w/ Berridge approved caulk per Berridge approved shop drawings.
- Caulking used only at locations shown in Berridge approved shop drawings.
- Extra underlayment used at eave, valley, gable, etc.

UNDERLAYMENT

- Review Berridge-approved shop drawings for correct types of underlayments to be used
- Sweep deck clean prior to installation of underlayment
- Use galvanized or coated fasteners (never common steel)

TRIM & FLASHING

- Review Berridge approved shop drawings for correct trim and flashings to be used
- Strippable plastic film has been removed
- End joints staggered where one flashing is installed over another

ROOF PENETRATIONS

- Insure proper flashings and solid sheathing is used per Berridge approved shop drawings

CLEAN-UP

- Clean all debris, especially metal shavings or drillings from valleys, gutters and entire roof daily. Use touch-up paint on scratches. Replace any damaged panels or flashings

First inspection to be performed upon completion of underlayment and flashing installation. Second inspection to be performed upon conclusion of roof panel installation. During the field inspections the decking and or purlin structure, underlayment, panel installation, flashings, caulking, valleys, penetrations and all areas of the roof will be inspected. This inspection will be for compliance to the Berridge approved shop drawings.

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POST-INSTALLATION INSPECTION GUIDE

Please use this checklist as a guide for inspection preparations:

Second “post-installation” inspection, trim/flashing installation, panel/seams, etc. During the inspection, a foreman or project manager from the roofing installer is to accompany the Berridge inspector at the job site, access is to be provided by the roofing installer to all roof surface and or all buildings.

- Berridge Manufacturing Co. approved shop drawings are on the job site

SUBSTRUCTURE

- Sheathing and or purlins in plane
- Sheathing end joints meet at joist
- Sheathing meets (no gaps) at hips, ridges, valleys eave, etc.
- Sheathing and or purlins in same plane w/ fascia, rake, eave, etc.

UNDERLAYMENT

- Review Berridge approved shop drawings for correct types of underlayments to be used

TRIM & FLASHING

- Review Berridge approved shop drawings for correct trim and flashings to be used

PANEL & SEAMS

- Strippable plastic film has been removed from panel and seams

- Each panel is to be kept tight against the leg of the adjoining panel

- Panel legs are straight, without any bends, crimps, creases, etc. prior to seam installation

- Use proper panel clip or continuous rib

- Inspect vinyl in seam or on continuous rib, make sure vinyl is properly seated in seam or attached to continuous rib

- Install seams and/or machine seams as panels are installed

EAVE / VALLEY

- Panel pan must be restrained review Berridge approved shop drawings for proper method

- 2 panel clips must be used at end of panel at eave and or valley if continuous rib not used

- Insure solid sheathing is used under all valleys

HIP / RIDGE

- Inspect Zee closure for proper and complete caulking along vertical leg to panel seam and between bottom of Zee and panel pan

- Insure Zee closure is securely fastened to substructure below panels

- Pop rivet hip or ridge flashing to Zee closure per Berridge approved shop drawings

ROOF PENETRATIONS

- Insure proper flashings and solid sheathing is used per Berridge approved shop drawings

CLEAN-UP

- Clean all debris, especially metal shavings or drillings from valleys, gutters and entire roof daily. Use touch-up paint on scratches. Replace any damaged panels or flashings

First inspection to be performed upon completion of underlayment and flashing installation. Second inspection to be performed upon conclusion of roof panel installation. During the field inspections the decking and or purlin structure, underlayment, panel installation, flashings, caulking, valleys, penetrations and all areas of the roof will be inspected. This inspection will be for compliance to the Berridge approved shop drawings.

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SHOP DRAWINGS AND/OR ENGINEERING SERVICES REQUEST FORM

Complete this form and provide required documentation to receive a quote for shop drawings and/or engineering services.

ROOFING INSTALLER

COMPANY NAME: _____
CONTACT: _____
ADDRESS: _____
CITY / STATE / ZIP: _____
PHONE: _____
EMAIL: _____

GENERAL CONTRACTOR

COMPANY NAME: _____
CONTACT: _____
ADDRESS: _____
CITY / STATE / ZIP: _____
PHONE: _____
FAX: _____

PROJECT INFORMATION

BUILDING NAME: _____
ADDRESS: _____
CITY / STATE / ZIP: _____

BUILDING OWNER

BUILDING OWNER: _____
ADDRESS: _____
CITY / STATE / ZIP: _____

PANEL SYSTEMS AND ASSEMBLIES

NOTE: BE SURE TO DICTATE LOCATION OF ALL PANELS TO BE INCLUDED IN REQUESTED SERVICES

ROOF PANEL(S) TYPE: _____

ASSEMBLY(S): OPEN FRAMING #30 FELT PEEL & STICK RIGID INSULATION METAL DECK PLYWOOD

OTHER _____

WALL PANEL(S) TYPE: _____

ASSEMBLY(S): OPEN FRAMING #30 FELT PEEL & STICK RIGID INSULATION METAL DECK PLYWOOD

OTHER _____

SOFFIT PANEL(S) TYPE: _____

ASSEMBLY(S): OPEN FRAMING #30 FELT PEEL & STICK RIGID INSULATION METAL DECK PLYWOOD

OTHER _____

REQUIRED DOCUMENTATION

A SET OF ARCHITECTURAL SPECIFICATIONS AND PLANS SHOWING ROOF PLAN, ALL ELEVATIONS, ROOFING DETAILS, WALL DETAILS, AND SOFFIT DETAILS

ENGINEERING SERVICES REQUIRE A SUBMITTAL OF STRUCTURAL DRAWINGS AS WELL

Shop drawings and engineering services require a signed Berridge confirmation of order along with prepayment for services. Materials will require a separate signed Berridge confirmation or order

Does this project require a manufacturer's watertightness warranty Yes No

Watertightness warranty inquiries require completion and approval of a Berridge watertightness warranty application which can be found at: www.berridge.com/wtw-application/

BERRIDGE TO PROVIDE QUOTE FOR: _____

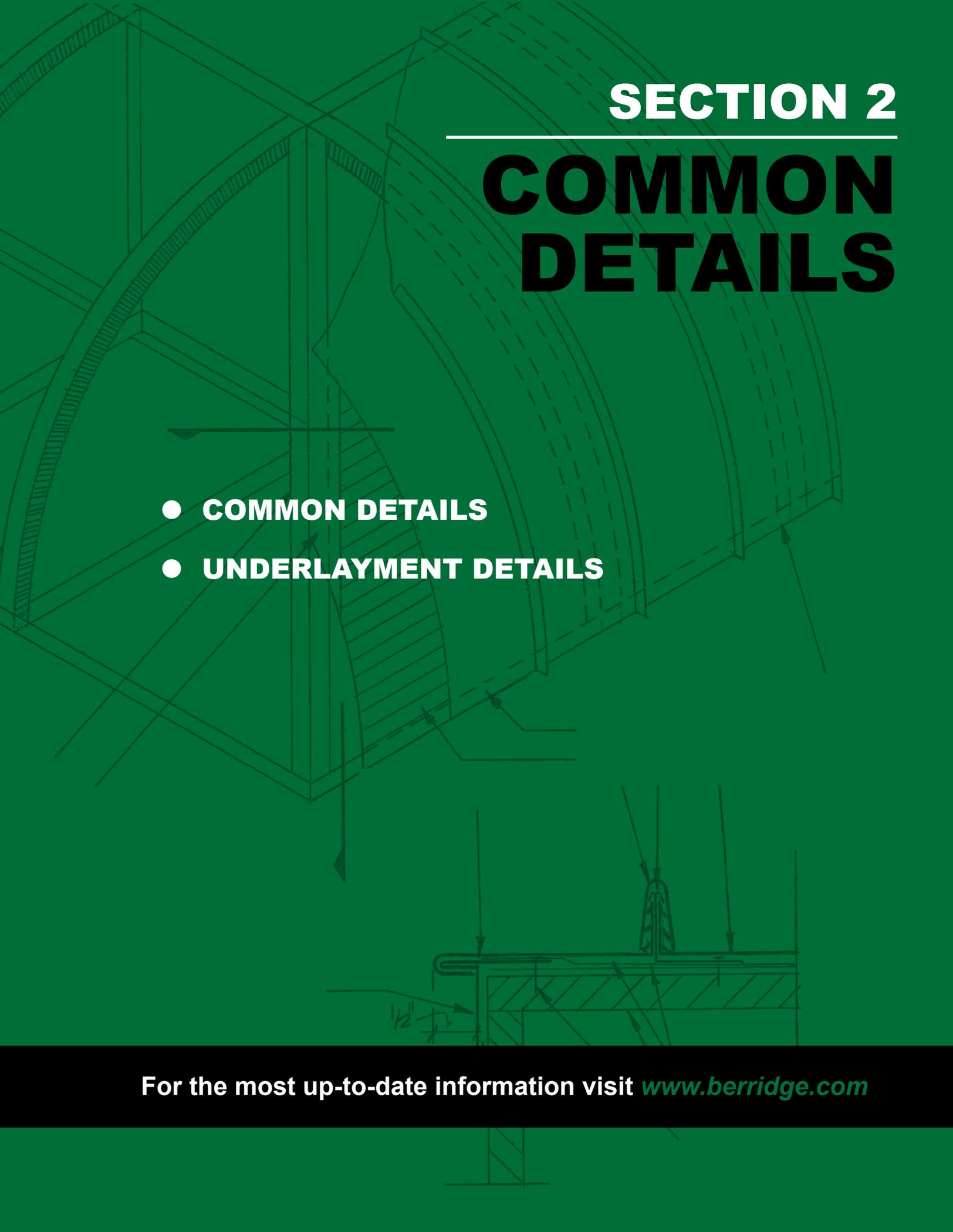
- SHOP DRAWINGS WITH ENGINEERING SEAL
- SEALED ENGINEERING CALCULATIONS
- SHOP DRAWINGS WITHOUT ENGINEERING SEAL

For Shop Drawings return this form with required documentation to: wtw@berridge.com
For Engineering Services return this form with required documentation to: technical@berridge.com

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SECTION 2

COMMON DETAILS

- COMMON DETAILS
- UNDERLAYMENT DETAILS

For the most up-to-date information visit www.berridge.com

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NOTE:

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions.

Berridge Manufacturing Company shall be held harmless from any and all claims arising from lack of watertightness as a result of following these recommended details. Ensuring watertightness on any given project is the function of the installer. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements and assure adequate watertightness.

The installer can virtually assure watertightness if these details have been properly adapted, adequate laps have been provided, correct type of underlayment and sealant used, all joints adequately caulked and professional workmanship employed.

Should a watertightness warranty be required on a specific project, please refer to the procedures outlined in the "Design Guide" section of this manual. These procedures must be adhered to in order for Berridge to issue any type of watertightness warranty.

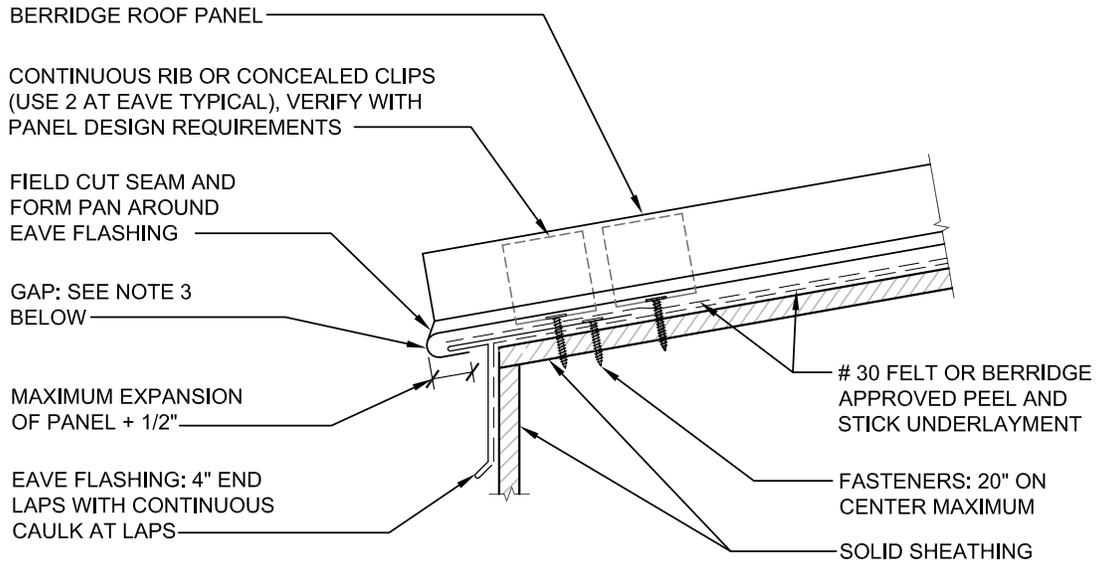
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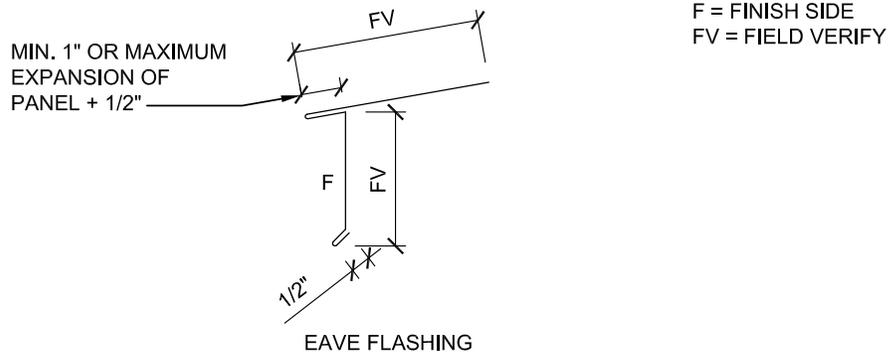
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COMMON DETAILS

EAVE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
3. THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PANEL PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. REFER TO NOMINAL EXPANSION CHART FOR EXPANSION PANEL GUIDANCE.
4. THE GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.



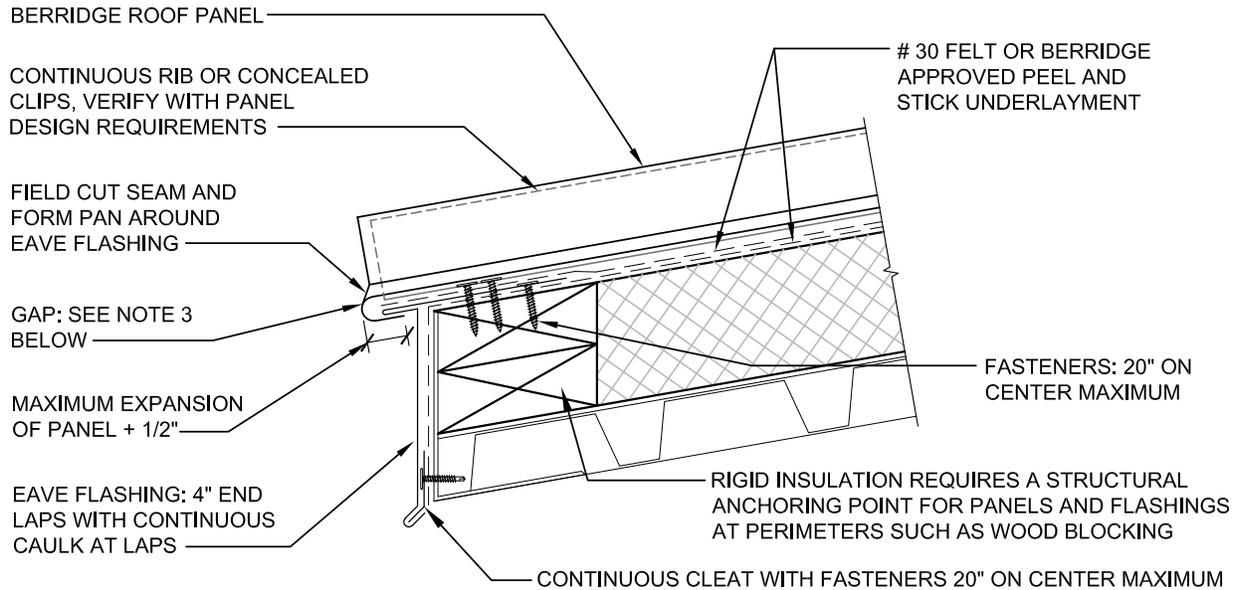
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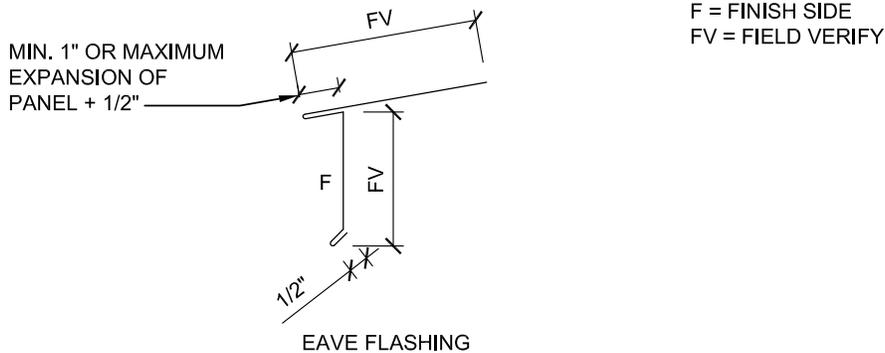
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COMMON DETAILS

INSULATED ROOF EAVE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
3. THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PANEL PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. REFER TO NOMINAL EXPANSION CHART FOR EXPANSION PANEL GUIDANCE.
4. THE GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.



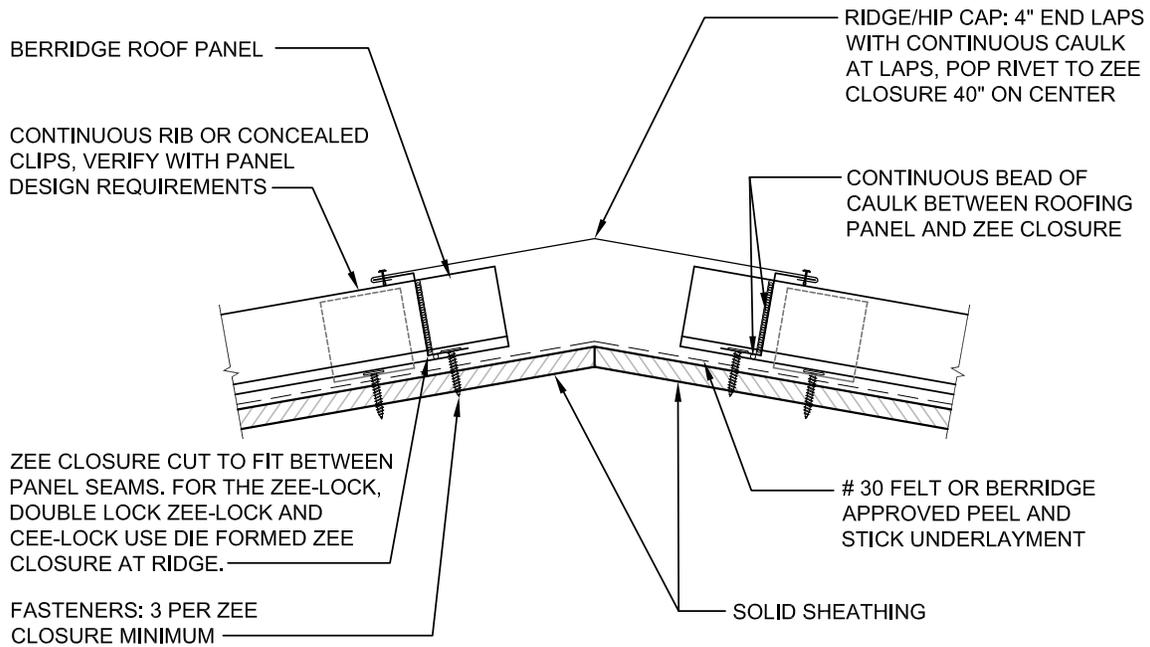
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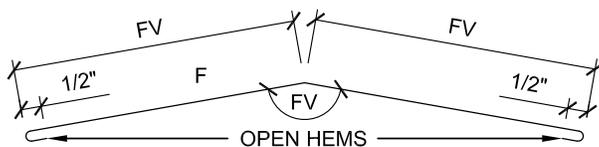
COMMON DETAILS

RIDGE/HIP DETAIL

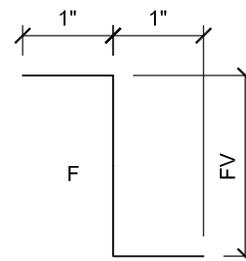


1. ZEE CLOSURE CUT TO FIT BETWEEN PANEL SEAMS. FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK AND CEE-LOCK USE DIE FORMED ZEE CLOSURE AT RIDGE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

F = FINISH SIDE
FV = FIELD VERIFY



RIDGE/HIP CAP



ZEE CLOSURE

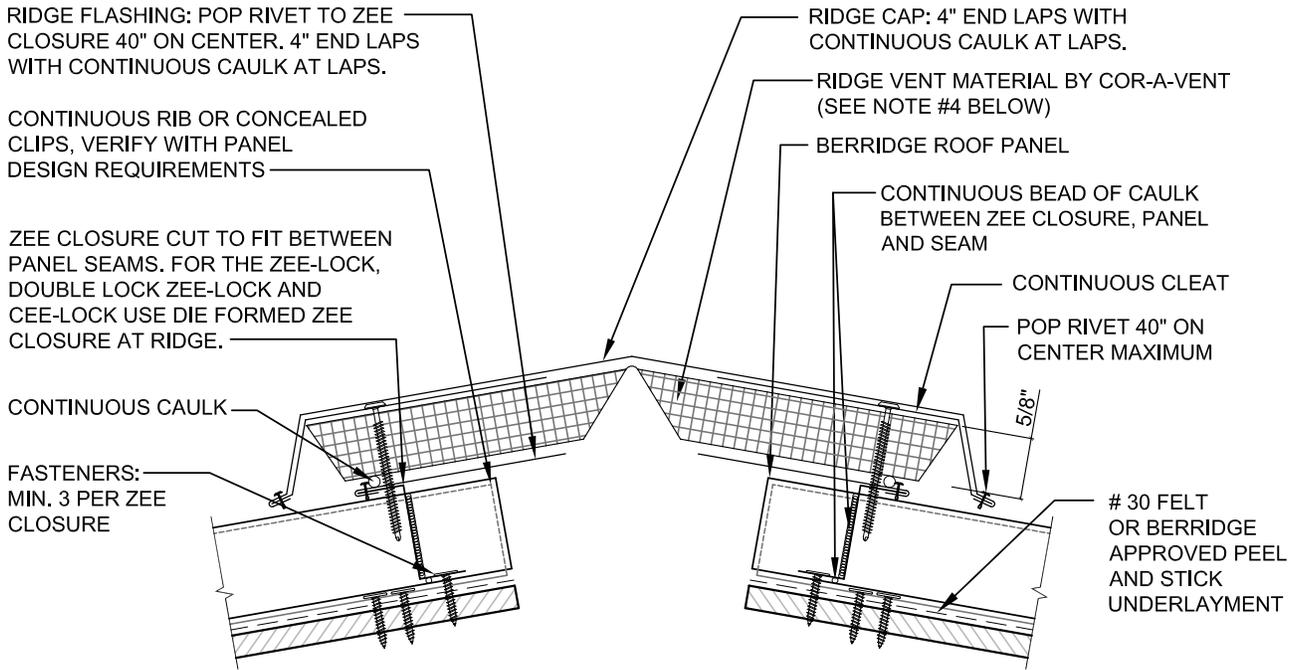
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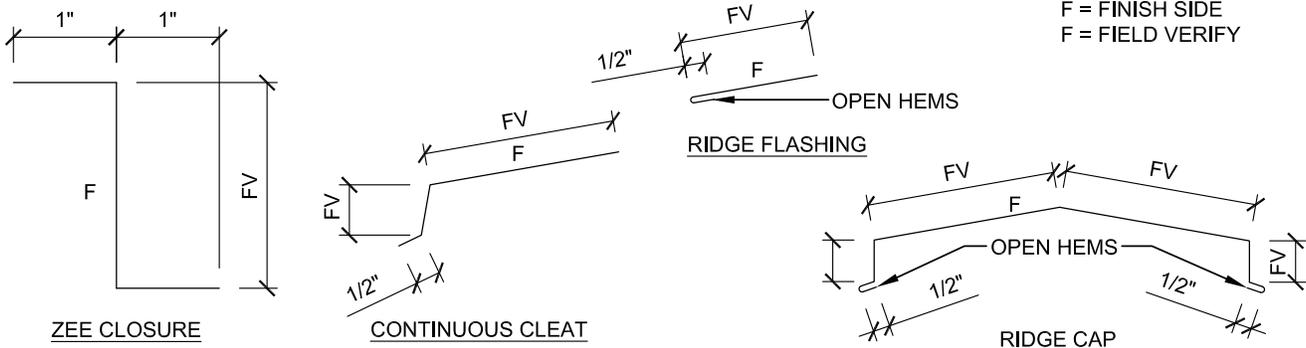
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COMMON DETAILS

RIDGE VENT CAP DETAIL



1. ZEE CLOSURE CUT TO FIT BETWEEN PANEL SEAMS, AT RIDGE FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK AND CEE-LOCK USE DIE FORMED ZEE CLOSURE
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
4. RIDGE VENT MATERIAL TO BE COR-A-VENT V300-11E. FOR QUESTIONS CONTACT COR-A-VENT AT 800-837-8368
5. THIS DETAIL TO ONLY BE UTILIZED IN CONJUNCTION WITH A VENTED SOFFIT OR MEANS TO BALANCE THE AIR FLOW THROUGH THE SYSTEM.
6. WHILE A PROPERLY DESIGNED RIDGE VENT WITH WATER SHIELDING MATERIAL IS OF VITAL IMPORTANCE, OR EQUAL CONCERN IS THAT THE ARCHITECT DESIGN FOR PROPER AIR FLOW; OTHERWISE THE RIDGE VENT WILL NOT FUNCTION. POSITIVE, OUTWARD AIR FLOW FROM A RIDGE VENT IS BASED ON THE FACT THAT WARM AIR RISES AND THAT THERE IS ADEQUATE INCOMING AIR AT THE ATTIC LOW POINT.

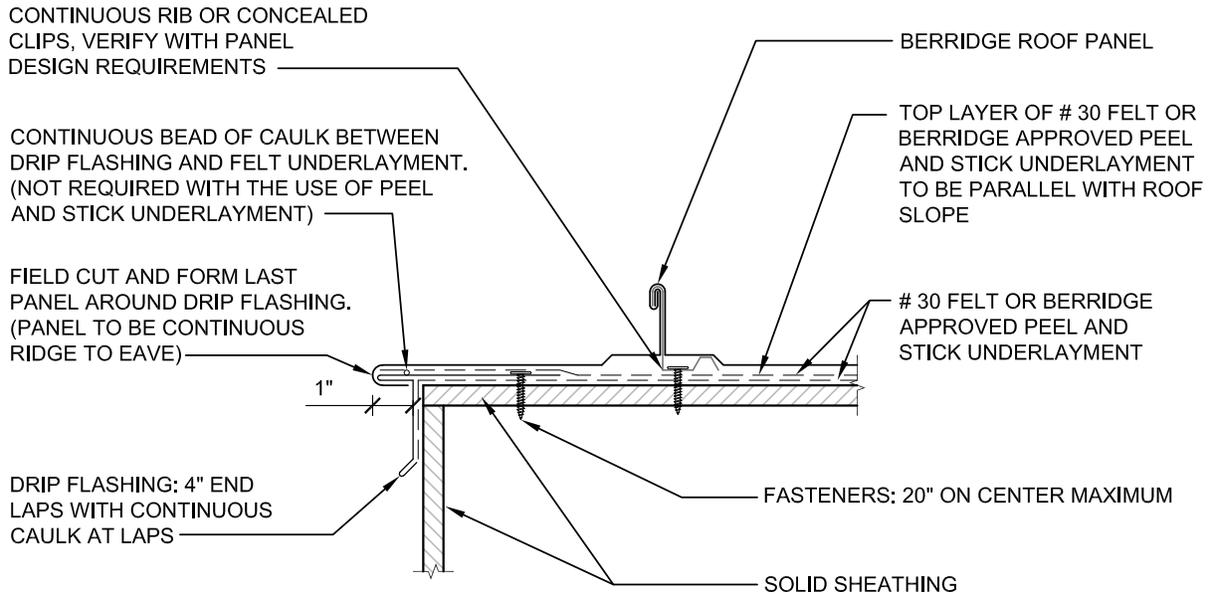


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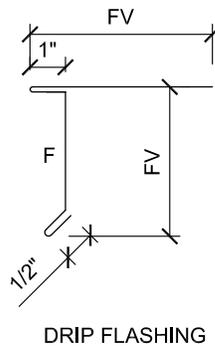
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GABLE DETAIL



1. FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING, PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



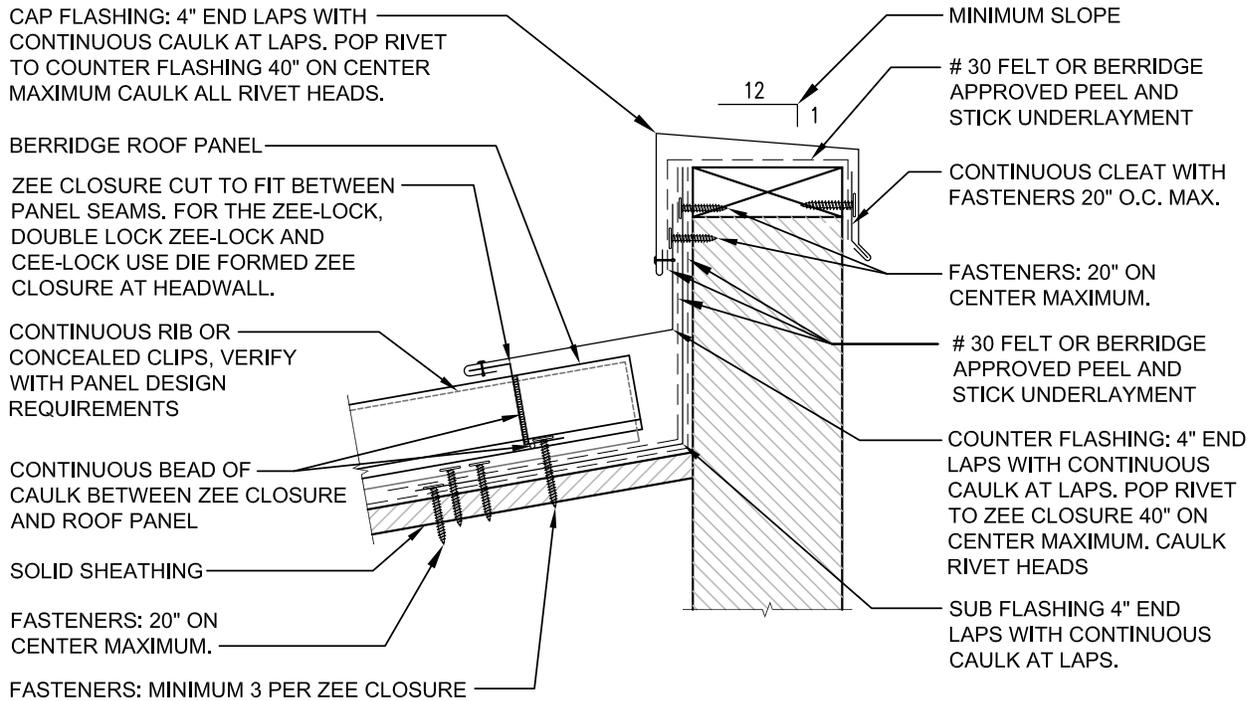
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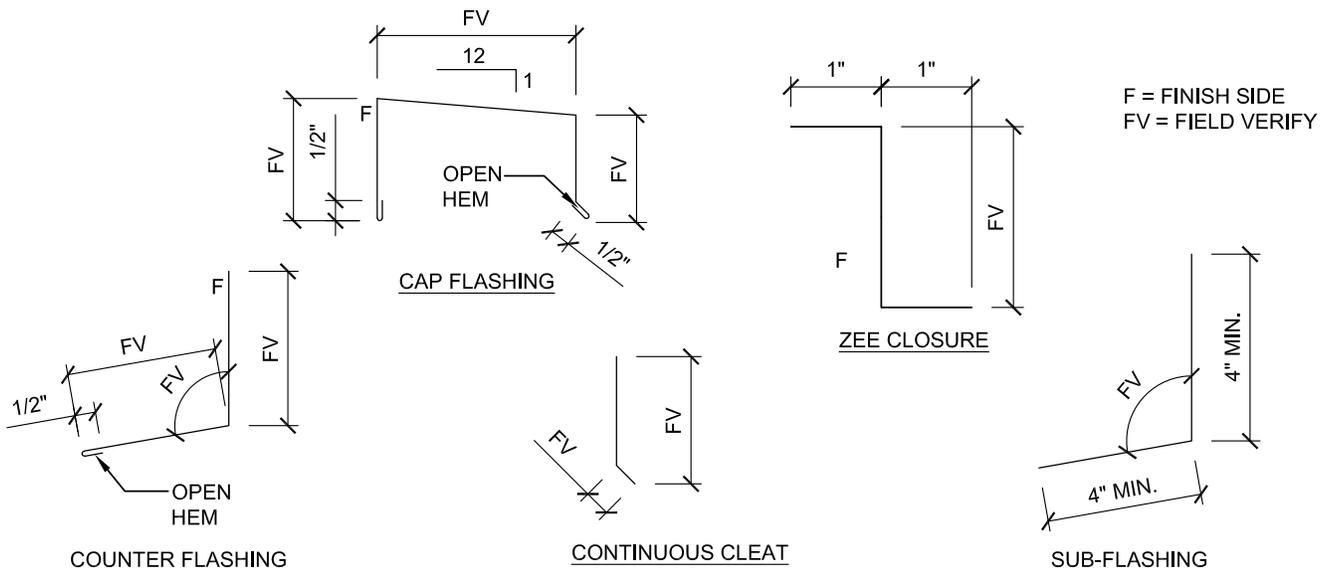
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HEAD WALL AT PARAPET DETAIL



1. ZEE CLOSURE CUT TO FIT BETWEEN PANEL SEAMS, AND, IF PERPENDICULAR TO THE PANEL SEAM FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK, AND CEE-LOCK USE DIE FORMED ZEE CLOSURE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
4. USE HEAD WALL DETAILS FOR PARAPETS LARGER THAN 12" ABOVE ROOF PANEL.

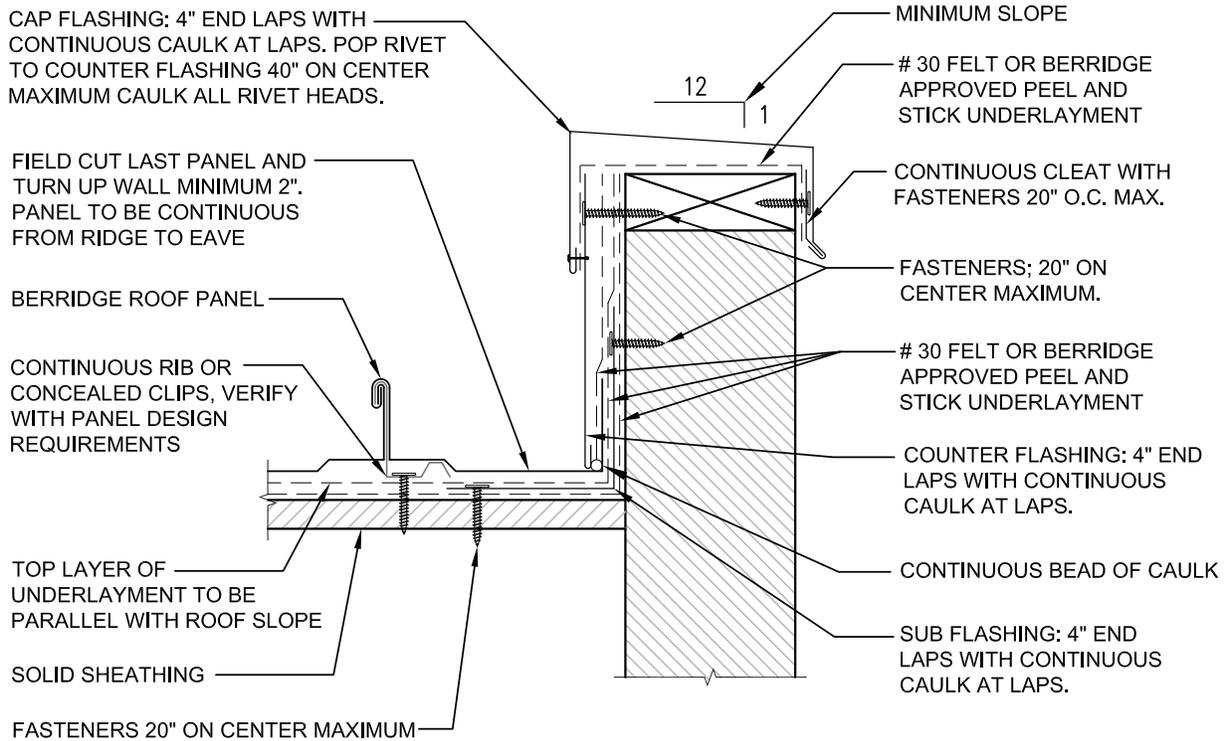


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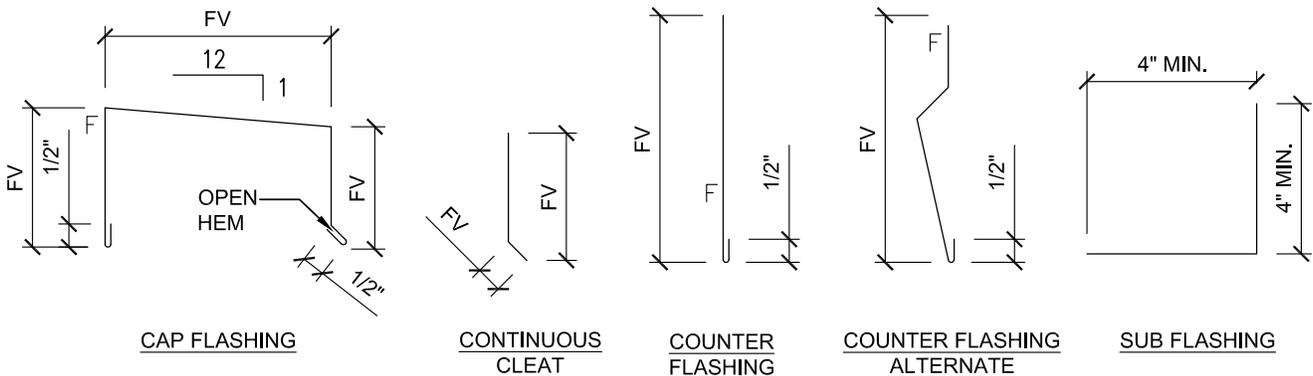
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RAKE WALL AT PARAPET DETAIL



1. FIELD CUT LAST PANEL AND TURN UP WALL MINIMUM 2".
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
4. USE RAKE WALL DETAILS FOR PARAPETS LARGER THAN 12" ABOVE ROOF PANEL.

F = FINISH SIDE
FV = FIELD VERIFY



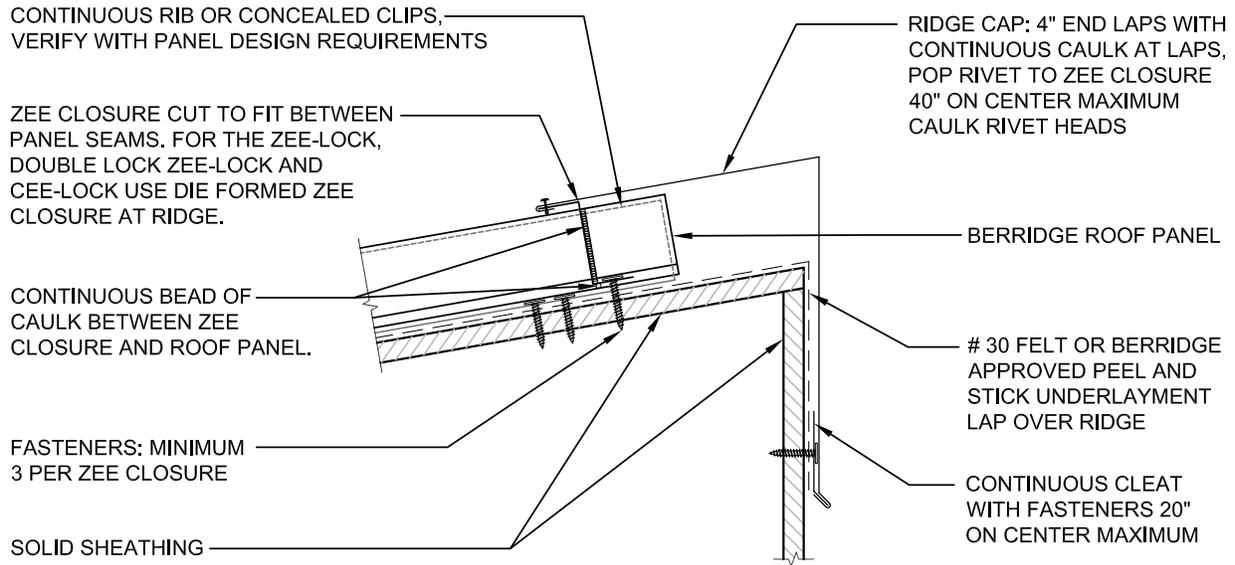
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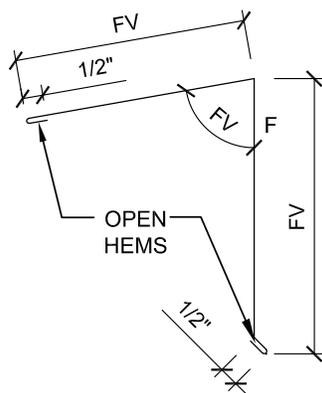
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COMMON DETAILS

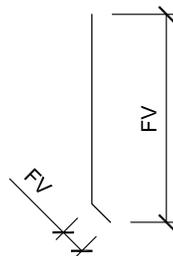
SHED RIDGE DETAIL



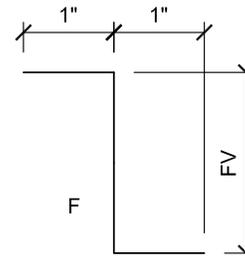
1. ZEE CLOSURE CUT TO FIT BETWEEN PANEL SEAMS, AND, IF PERPENDICULAR TO THE PANEL SEAM FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK, AND CEE-LOCK USE DIE FORMED ZEE CLOSURE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



RIDGE CAP



CONTINUOUS CLEAT



ZEE CLOSURE

F = FINISH SIDE
FV = FIELD VERIFY

BERRIDGE MANUFACTURING COMPANY

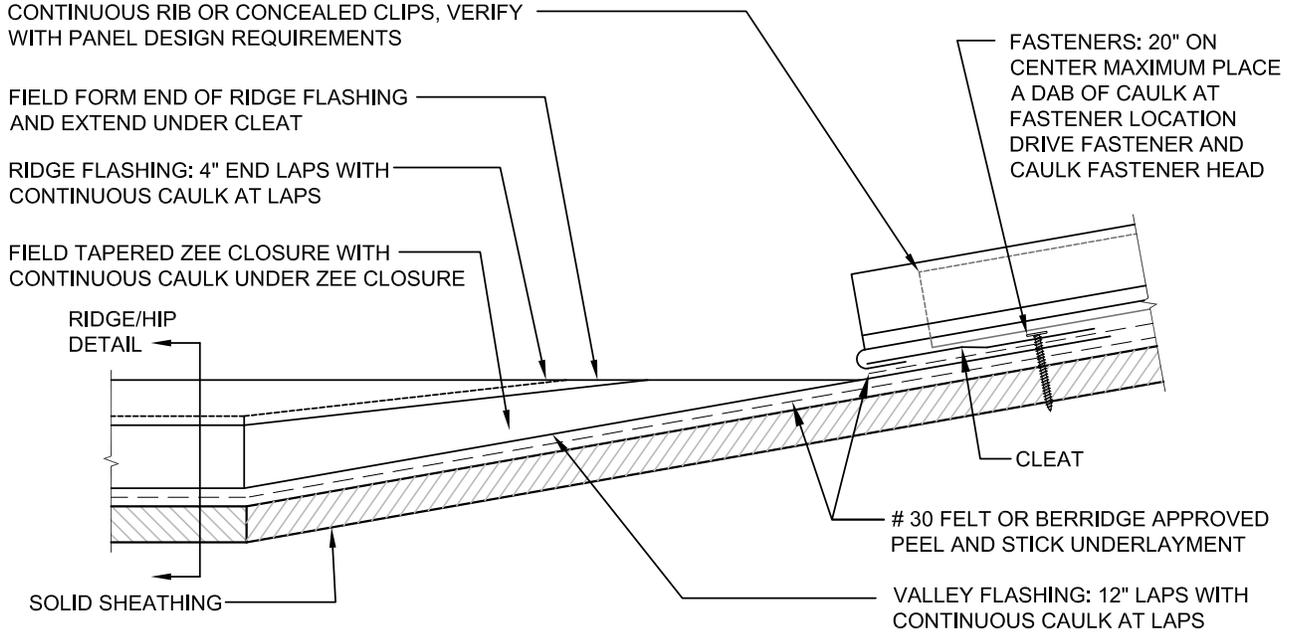
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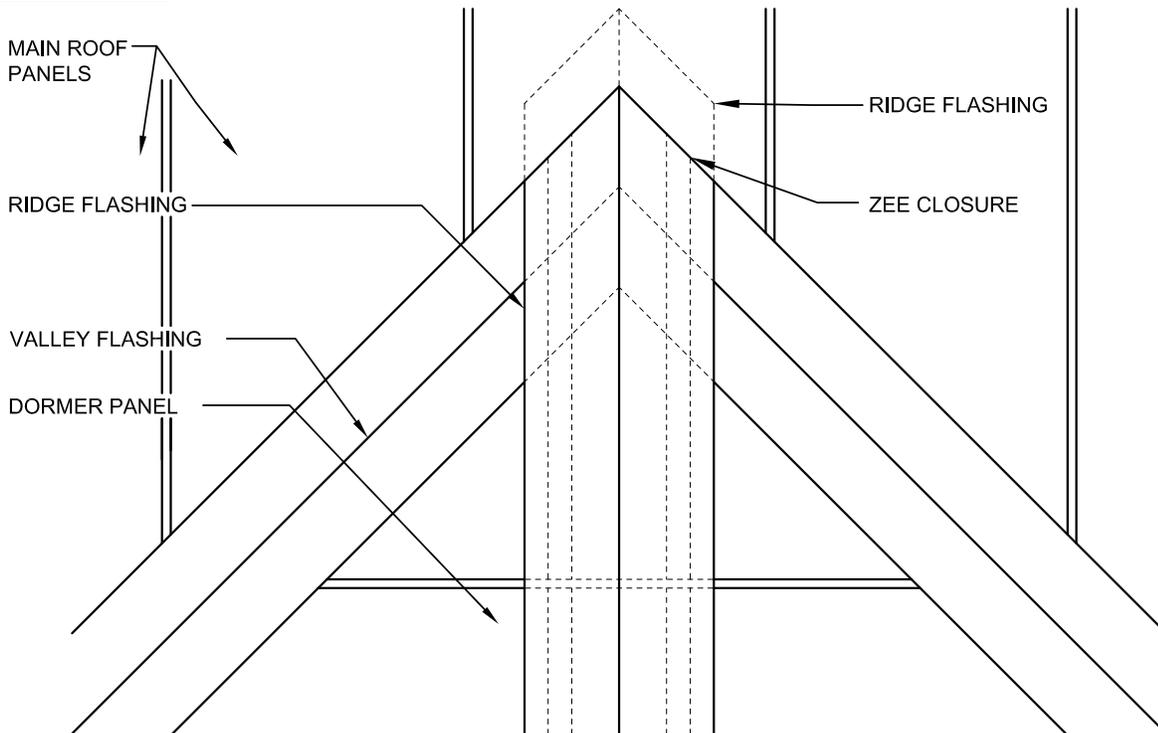
COMMON DETAILS

RIDGE TERMINATION AT DORMER VALLEY FOR SLOPES LESS THAN 3:12 DETAIL

SECTION VIEW



PLAN VIEW



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COMMON DETAILS

RIDGE TERMINATION AT DORMER VALLEY FOR SLOPES GREATER OR EQUAL TO 3:12 DETAIL

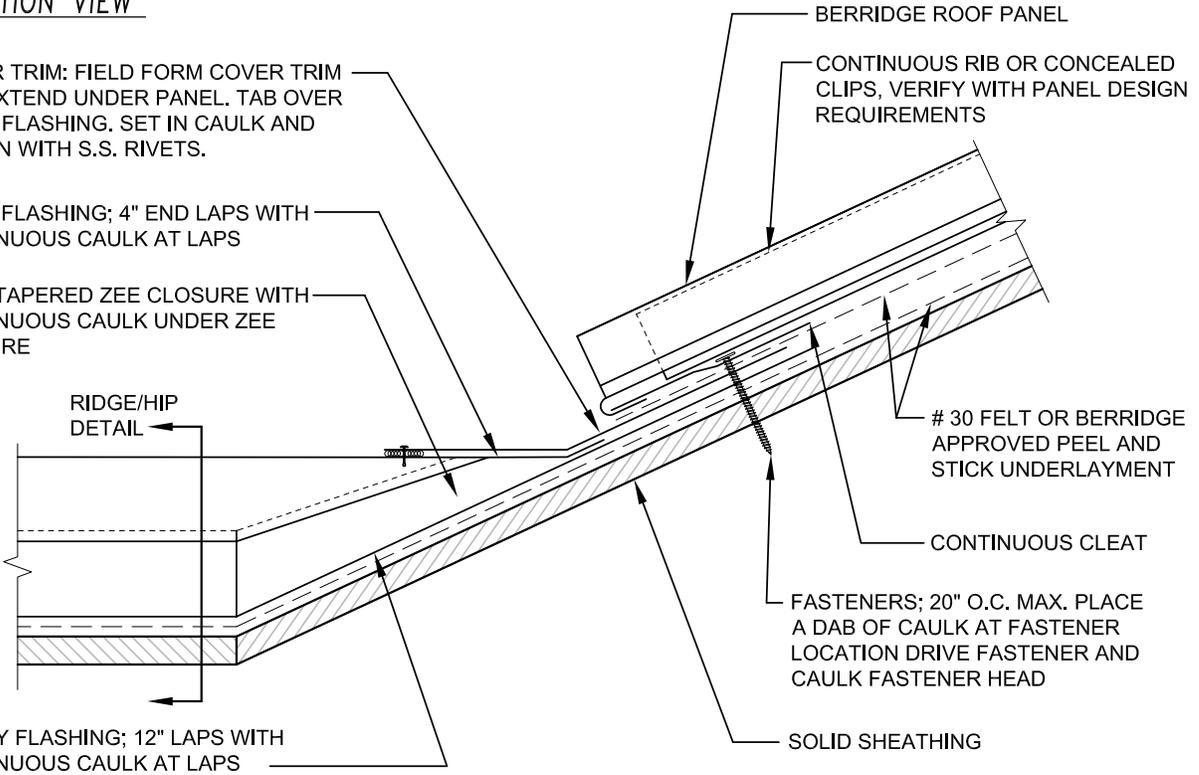
SECTION VIEW

COVER TRIM: FIELD FORM COVER TRIM AND EXTEND UNDER PANEL. TAB OVER RIDGE FLASHING. SET IN CAULK AND FASTEN WITH S.S. RIVETS.

RIDGE FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

FIELD TAPERED ZEE CLOSURE WITH CONTINUOUS CAULK UNDER ZEE CLOSURE

RIDGE/HIP
DETAIL



VALLEY FLASHING; 12" LAPS WITH CONTINUOUS CAULK AT LAPS

SOLID SHEATHING

PLAN VIEW

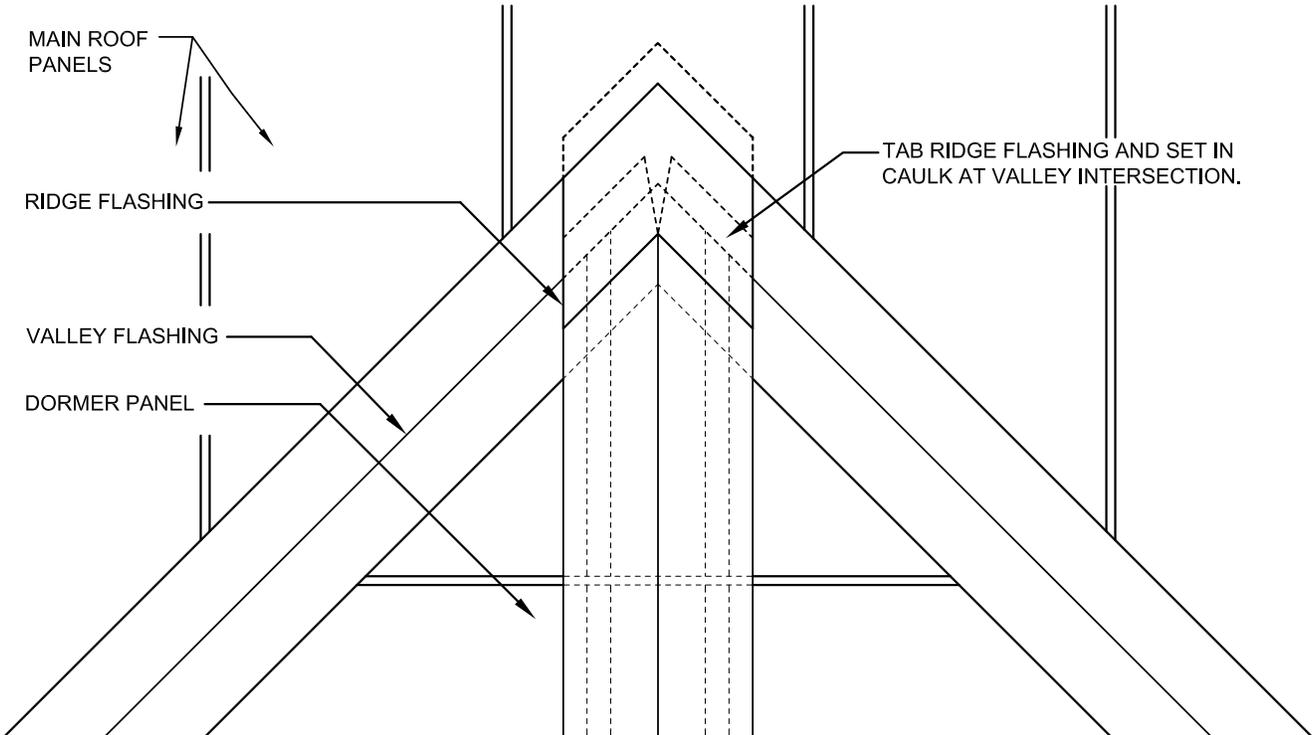
MAIN ROOF
PANELS

RIDGE FLASHING

VALLEY FLASHING

DORMER PANEL

TAB RIDGE FLASHING AND SET IN CAULK AT VALLEY INTERSECTION.

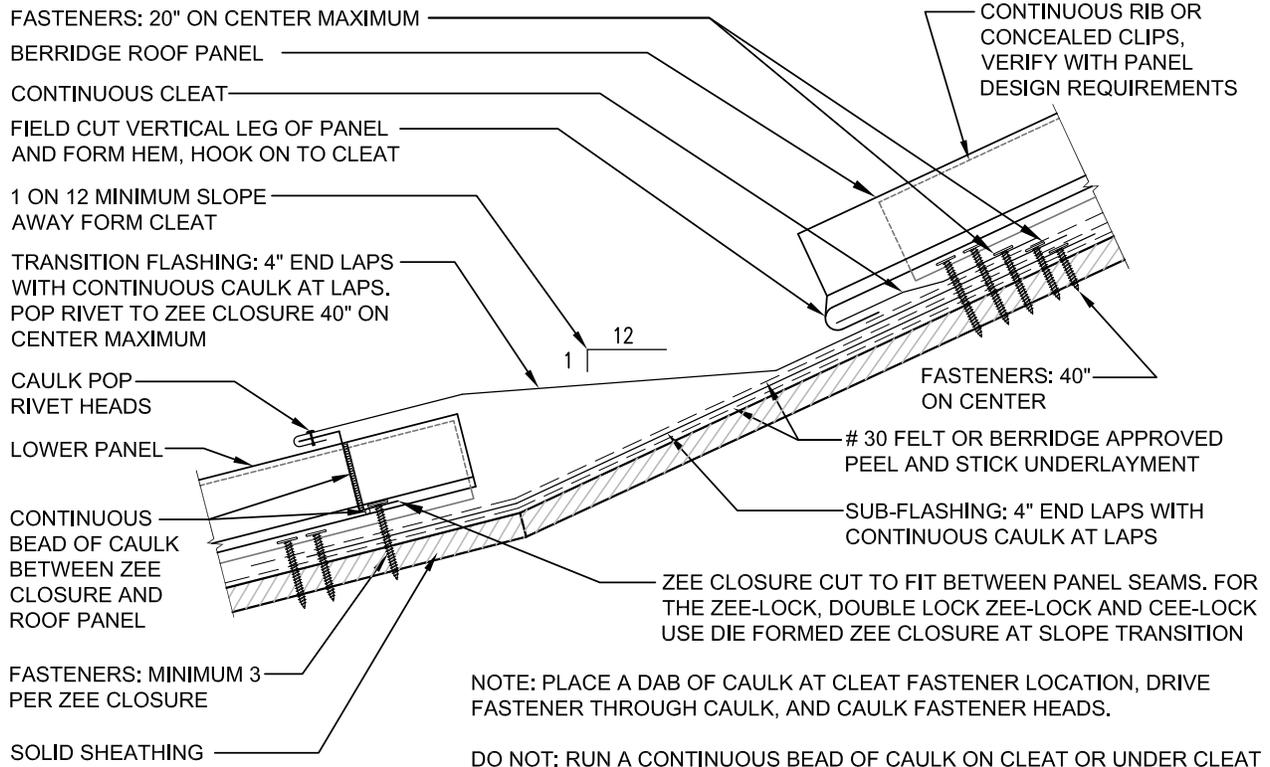


BERRIDGE MANUFACTURING COMPANY

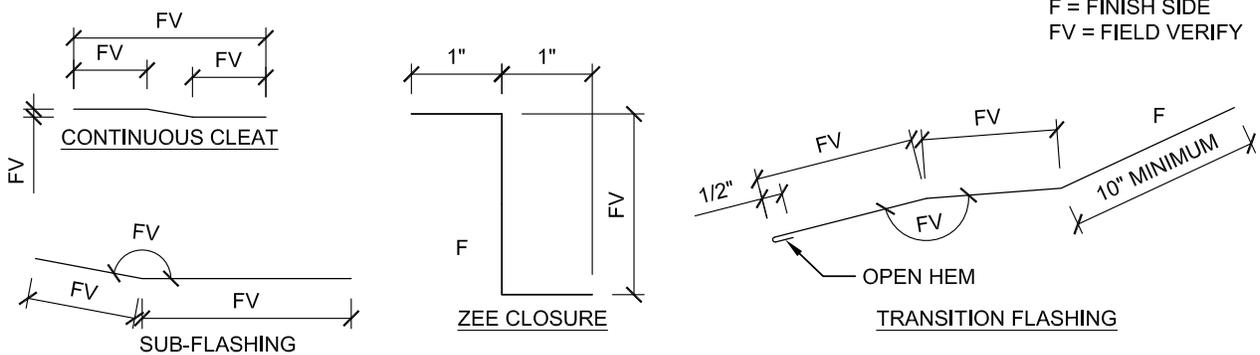
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SLOPE TERMINATION DETAIL



1. ZEE CLOSURE CUT TO FIT BETWEEN SEAMS, FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK, AND CEE-LOCK USE DIE FORMED ZEE-CLOSURE.
2. AS ROOF PANELS ARE INSTALLED, FIELD CUT PANEL SEAM AND TURN PANEL PAN UNDER, HOOK ON TO CLEAT. REFERENCE EAVE DETAILS FOR EXPANSION AND CONTRACTION REQUIREMENTS.
3. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS
4. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



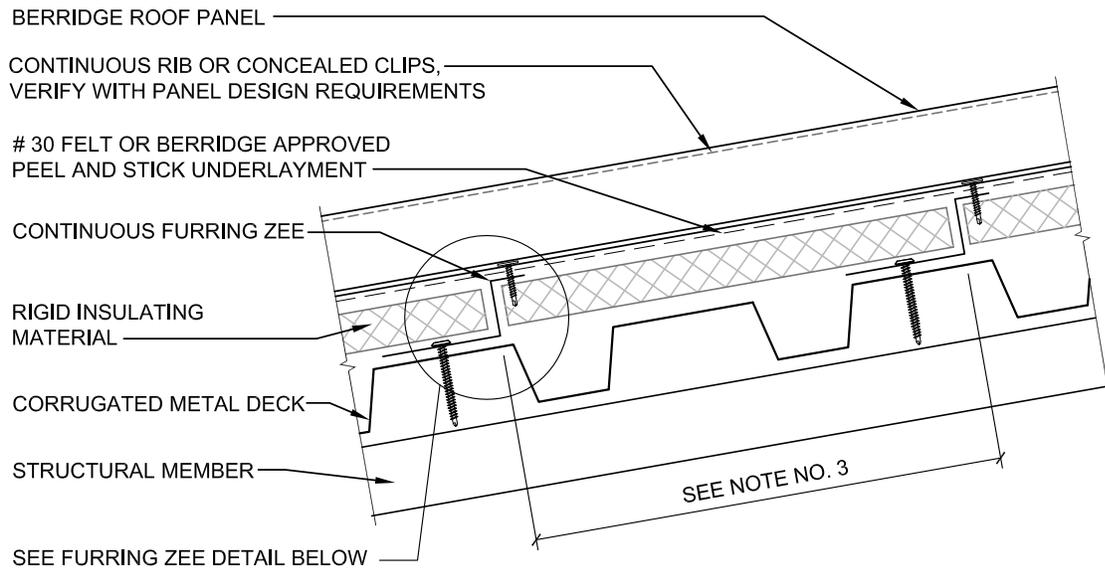
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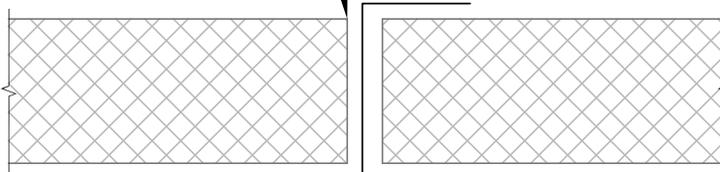
COMMON DETAILS

INSULATED DECK DETAIL

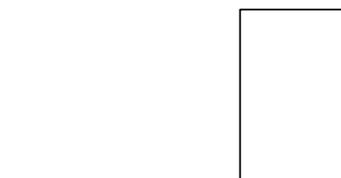


1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
2. CONTINUOUS WOOD BLOCKING (BY OTHERS) MAY BE USED IN LIEU OF FURRING ZEE. BLOCKING MUST BE EXACTLY SAME DEPTH AS INSULATION.
3. BERRIDGE SUPPLIED FURRING ZEE SPACING AND FASTENER TYPE WILL BE DEPENDENT ON GOVERNING CODE AND SPECIFICATION REQUIREMENTS. CONTACT BERRIDGE FOR SPECIFIC INFORMATION. FURRING ZEE SPACING AND FASTENER REQUIREMENTS FOR FURRING ZEES NOT BY BERRIDGE TO BE PROVIDED BY OTHERS.
4. RIGID INSULATION MUST HAVE MINIMUM COMPRESSIVE STRENGTH OF 20 POUNDS PER SQUARE INCH AND ADEQUATE COMPRESSIVE STRENGTH TO SUPPORT THE WEIGHT OF A 300 POUND MAN WITHOUT CAUSING ANY DEFORMATION IN THE PANEL.
5. DEPTH OF FURRING ZEE MUST BE GOVERNED BY INSULATION THICKNESS. ANY DEVIATION COULD BE CAUSE FOR DAMAGE TO PANELS OR LEAKS.
6. REQUIRES STRUCTURAL ANCHORING POINT FOR PANELS AND FLASHINGS AT PERIMETERS SUCH AS WOOD BLOCKING.

BUTT INSULATION UP
TO FURRING ZEE



CONSULT BERRIDGE FOR GAUGE OF FURRING ZEE: DEPTH DETERMINED BY INSULATION DEPTH AND LEGS DETERMINED BY PITCH OF METAL DECK



FURRING ZEE
PROFILE

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HEAD WALL DETAILS

HEAD WALL WITH FASCIA PANEL - SOLID SUBSTRATE

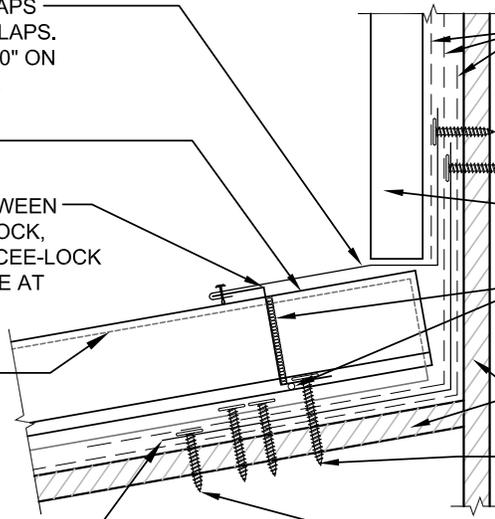
COUNTER FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ZEE CLOSURE 40" ON CENTER, CAULK RIVET HEADS.

BERRIDGE ROOF PANEL

ZEE CLOSURE CUT TO FIT BETWEEN PANEL SEAMS. FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK AND CEE-LOCK USE DIE FORMED ZEE CLOSURE AT HEADWALL.

CONTINUOUS RIB OR CONCEALED CLIPS, VERIFY WITH PANEL DESIGN REQUIREMENTS

SUB-FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS



30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT

FASTENERS: 20" ON CENTER MAXIMUM.

BERRIDGE FASCIA PANEL OR WALL PANEL

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE AND ROOF PANEL

SOLID SHEATHING

FASTENERS: 3 PER ZEE CLOSURE MINIMUM.

FASTENERS: 20" ON CENTER MAXIMUM.

1. ZEE CLOSURE CUT TO FIT BETWEEN PANEL SEAMS, AND, IF PERPENDICULAR TO THE PANEL SEAM FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK, AND CEE-LOCK USE DIE FORMED ZEE CLOSURE.

HEAD WALL WITH REGLET FLASHING - SOLID SUBSTRATE

REGLET FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS.

COUNTER FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ZEE CLOSURE 40" ON CENTER, CAULK RIVET HEADS.

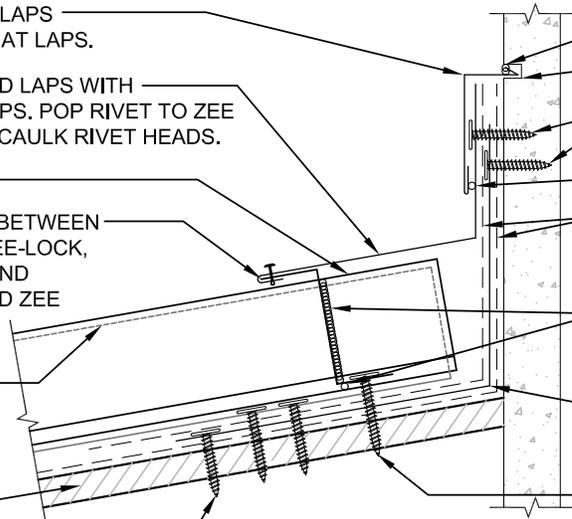
BERRIDGE ROOF PANEL

ZEE CLOSURE CUT TO FIT BETWEEN PANEL SEAMS. FOR THE ZEE-LOCK, DOUBLE LOCK ZEE-LOCK AND CEE-LOCK USE DIE FORMED ZEE CLOSURE AT HEADWALL.

CONTINUOUS RIB OR CONCEALED CLIPS, VERIFY WITH PANEL DESIGN REQUIREMENTS

SOLID SHEATHING

FASTENERS: 20" ON CENTER MAXIMUM



CONTINUOUS BEAD OF CAULK

REGLET

FASTENERS: 20" ON CENTER MAXIMUM

CONTINUOUS BEAD OF CAULK

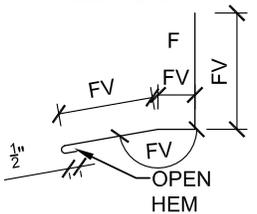
30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE AND ROOF PANEL

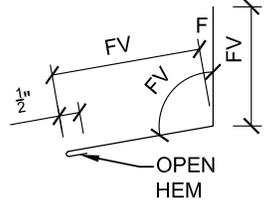
SUB-FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

FASTENERS: 3 PER ZEE CLOSURE MINIMUM.

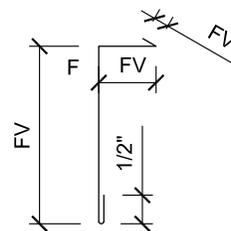
F = FINISH SIDE
FV = FIELD VERIFY



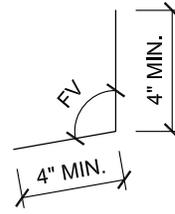
COUNTER FLASHING



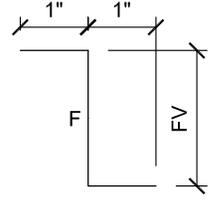
COUNTER FLASHING



REGLET FLASHING



SUB FLASHING



ZEE CLOSURE

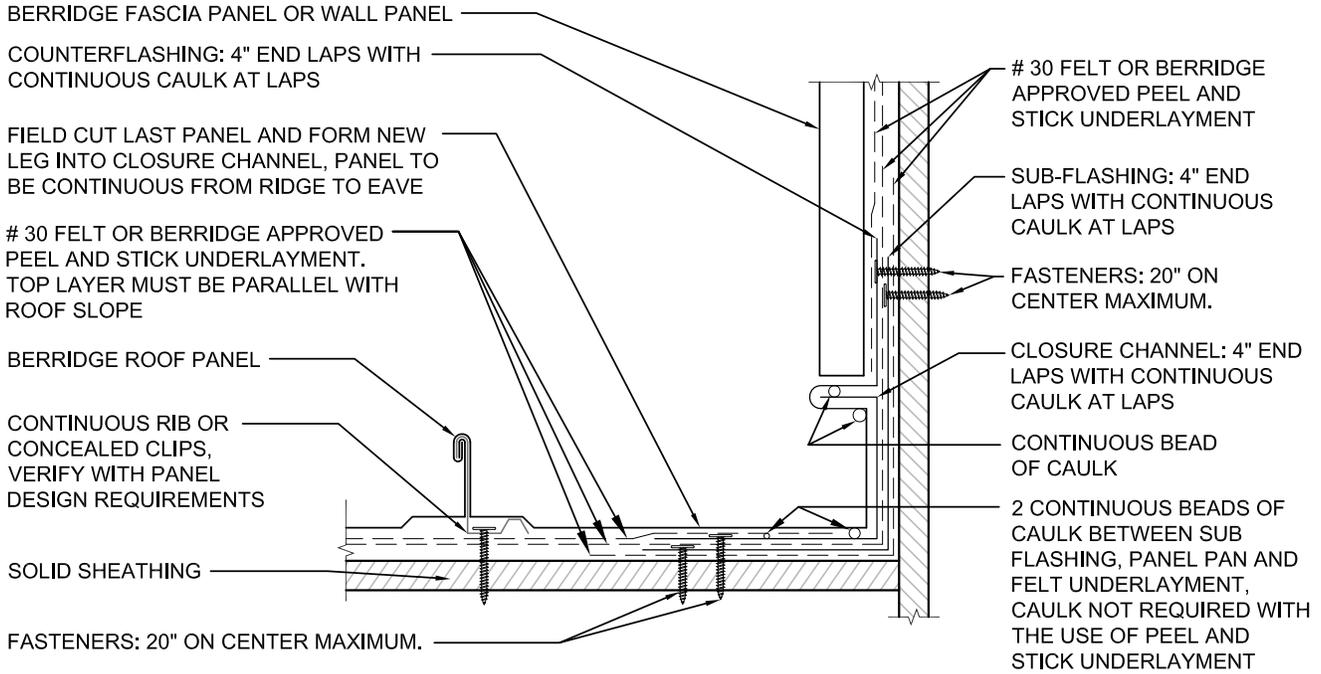
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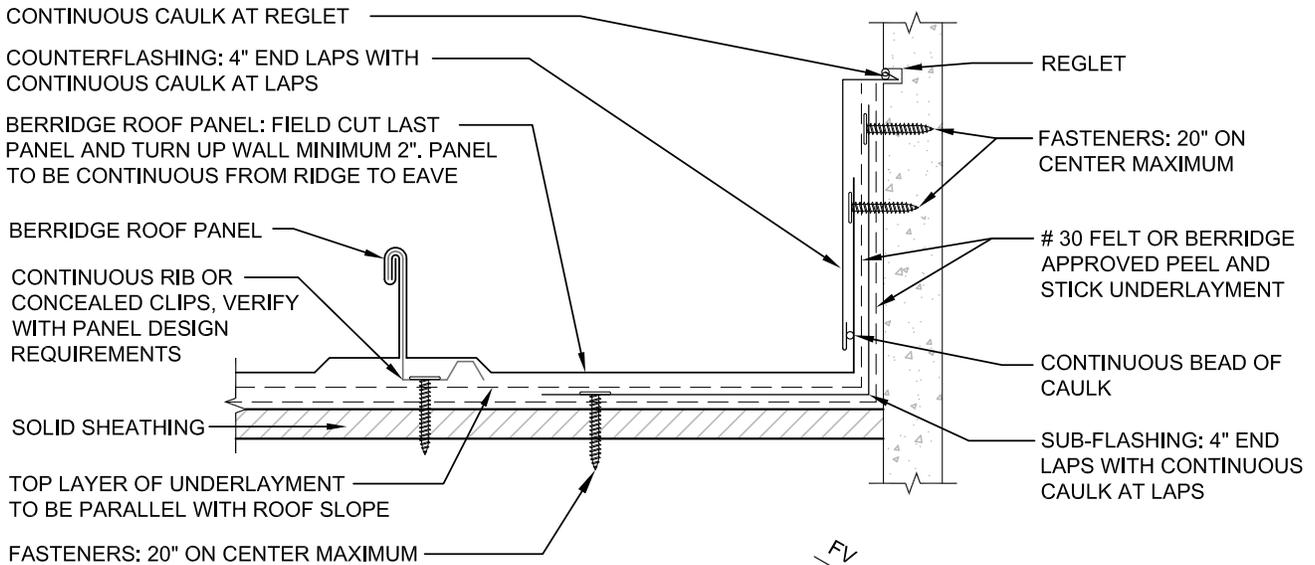
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RAKE WALL DETAILS

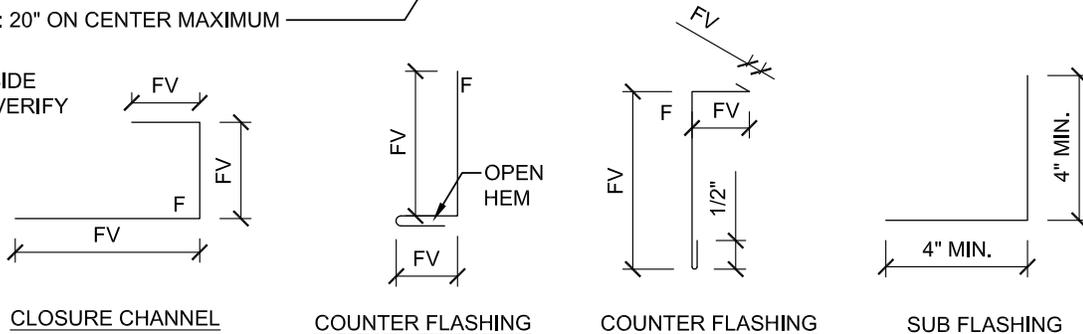
RAKE WALL WITH FASCIA PANEL - SOLID SUBSTRATE



RAKE WALL WITH REGLET FLASHING - SOLID SUBSTRATE



F = FINISH SIDE
FV = FIELD VERIFY

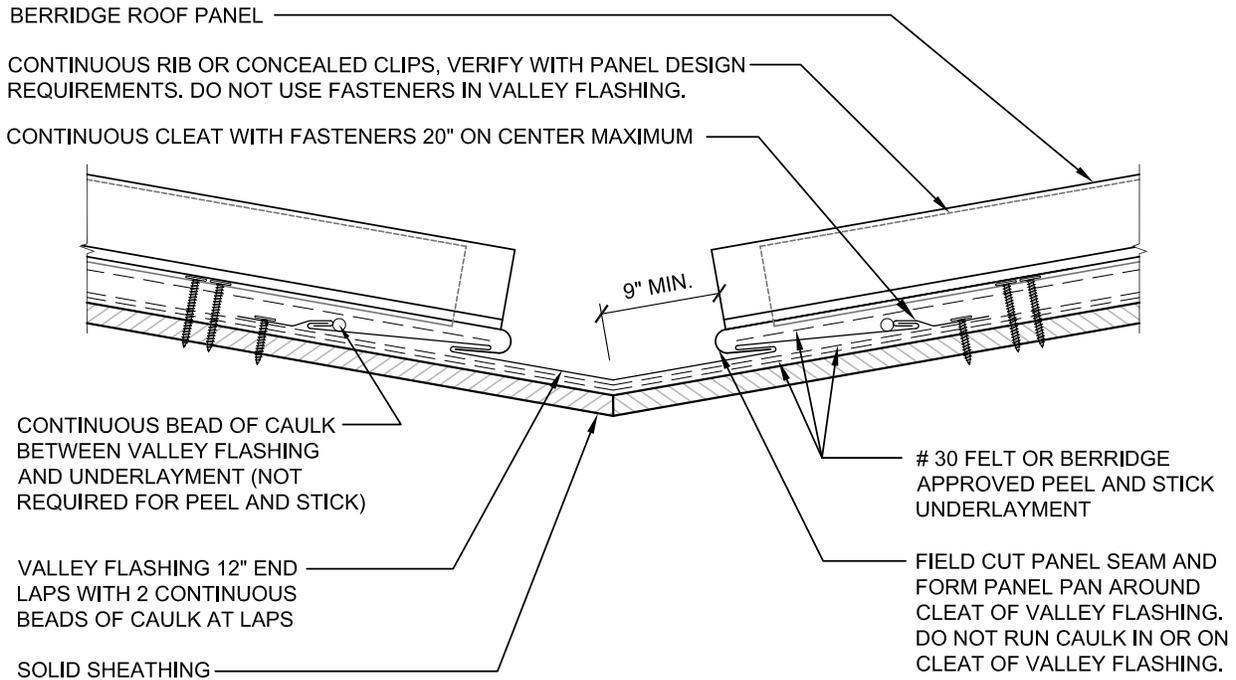


BERRIDGE MANUFACTURING COMPANY

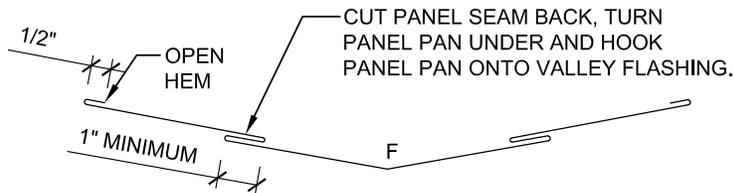
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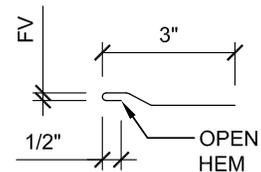
VALLEY DETAIL - SOLID SHEATHING



1. FOR EXPANSION AND CONTRACTION OF PANELS, SEE THE NOMINAL LINEAR EXPANSION CHART.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS. SOLID SHEATHING IS REQUIRED AT THIS CONDITION WHEN THE PANEL IS INSTALLED OVER OPEN FRAMING.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



FORM VALLEY FLASHING FROM A FULL 42" OR 48" WIDE FLAT. SHEET SEE TAPERED VALLEY DETAIL ON PAGE 80



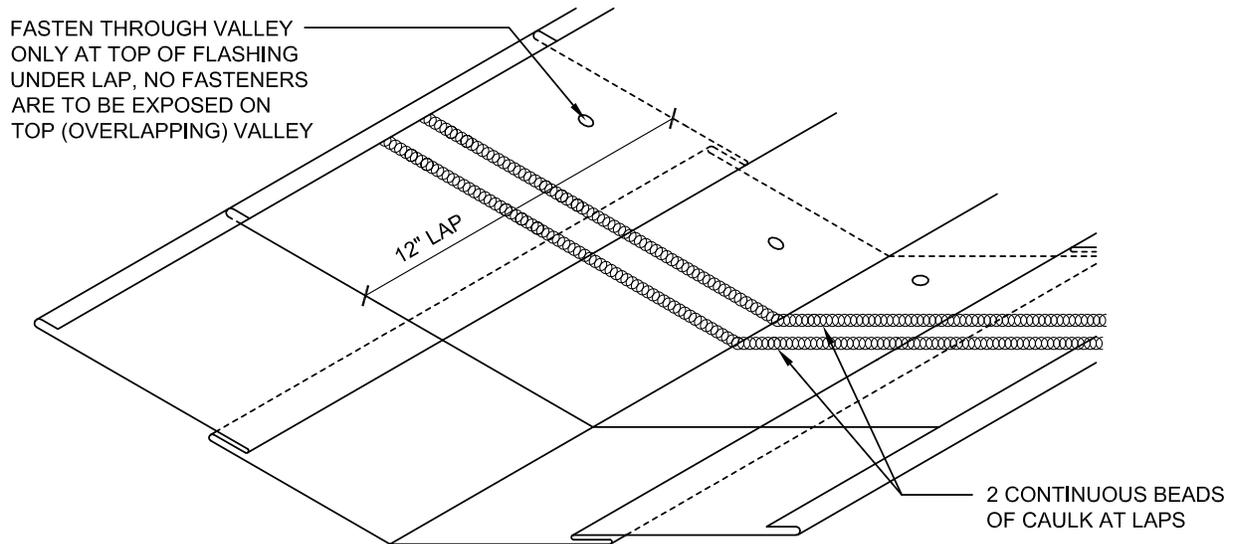
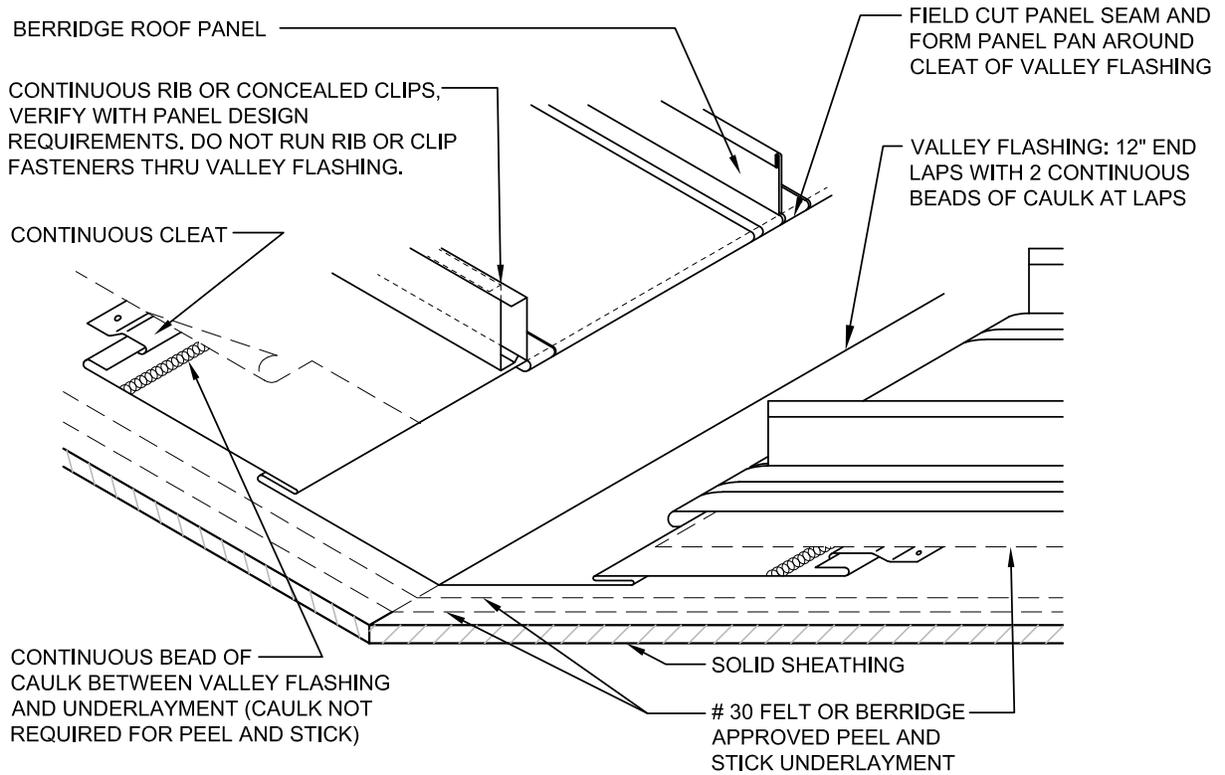
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COMMON DETAILS

VALLEY DETAIL - ISOMETRIC



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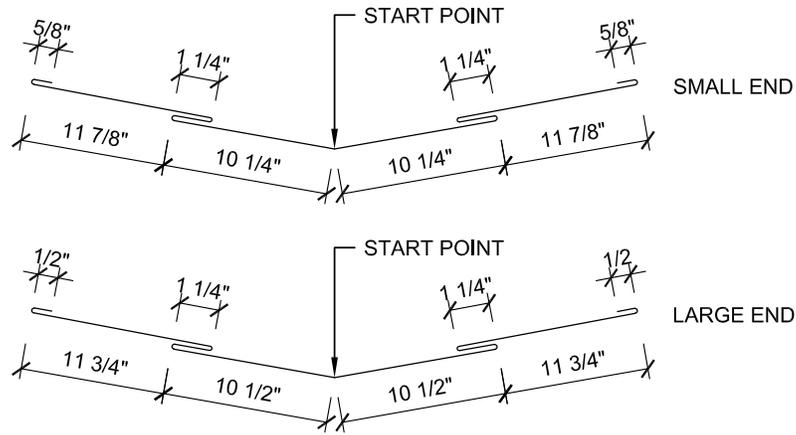
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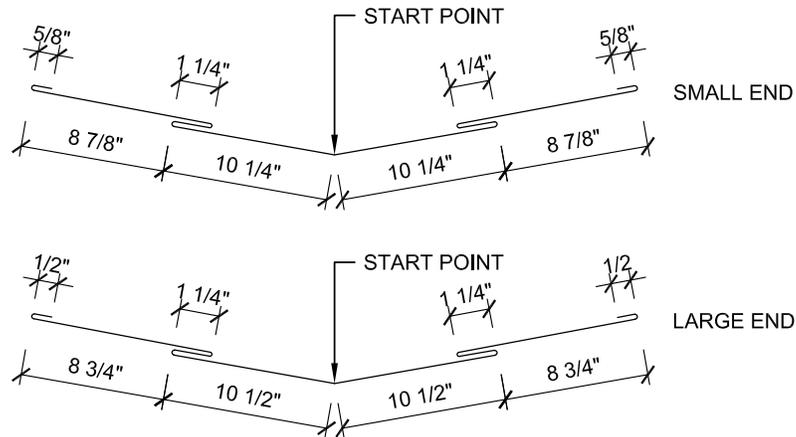
TAPERED VALLEY FLASHING DETAIL

TAPERED VALLEY 48" FLAT SHEET



NOTE: WHEN VALLEY FLASHING DIMENSIONS ARE LAID OUT ON FLAT SHEET YOU MUST START FROM CENTER OF FLAT SHEET AND MARK OUT THE DIMENSIONS TO BOTH OUTER SIDES OF THE FLAT SHEET

TAPERED VALLEY 42" FLAT SHEET



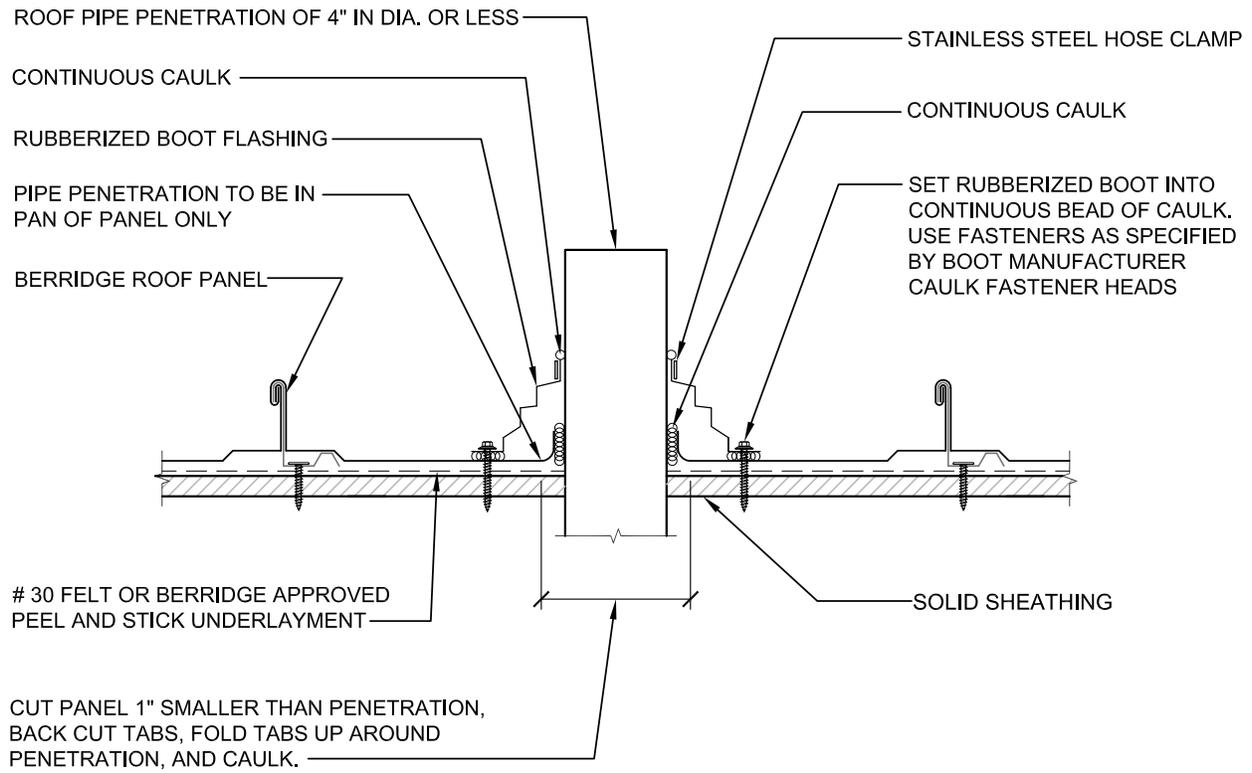
NOTE: WHEN VALLEY FLASHING DIMENSIONS ARE LAID OUT ON FLAT SHEET YOU MUST START FROM CENTER OF FLAT SHEET AND MARK OUT THE DIMENSIONS TO BOTH OUTER SIDES OF THE FLAT SHEET

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ROUND PENETRATION DETAIL



1. PIPE PENETRATION TO BE IN PAN OF PANEL ONLY
2. FIELD CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK CUT HOLE AND BEND PANEL UP AROUND STACK. CAULK CONTINUOUS.
3. IF PANELS ARE 30' OR LONGER, CUT HOLE TO ALLOW FOR THERMAL MOVEMENT.
4. IF PIPE IS METAL, IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS.

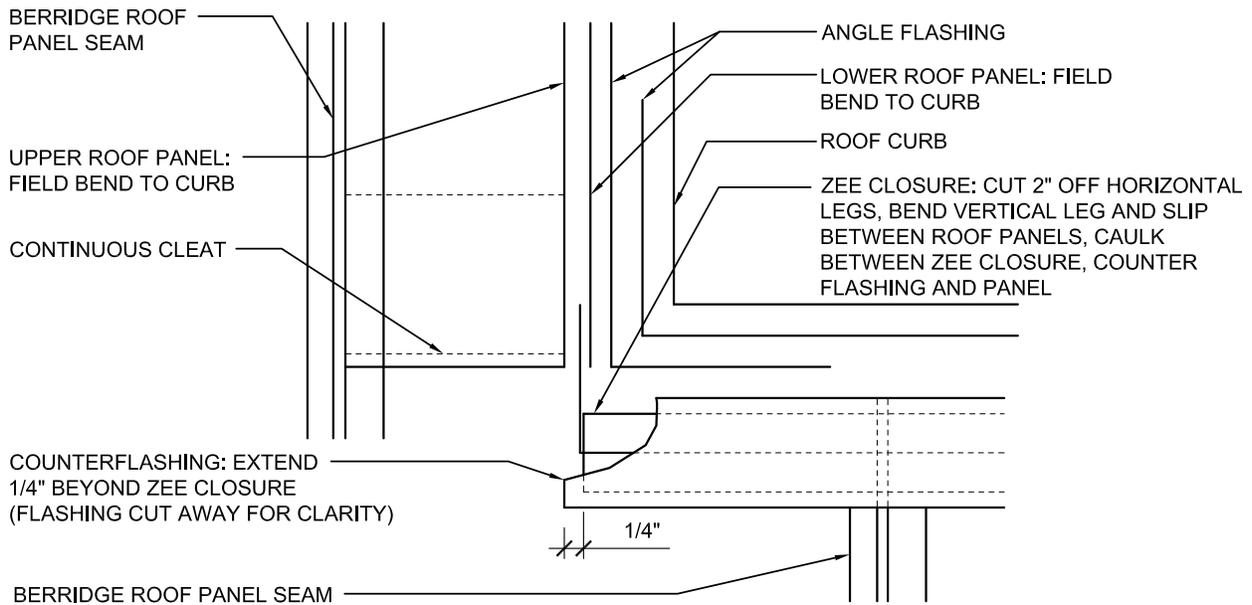
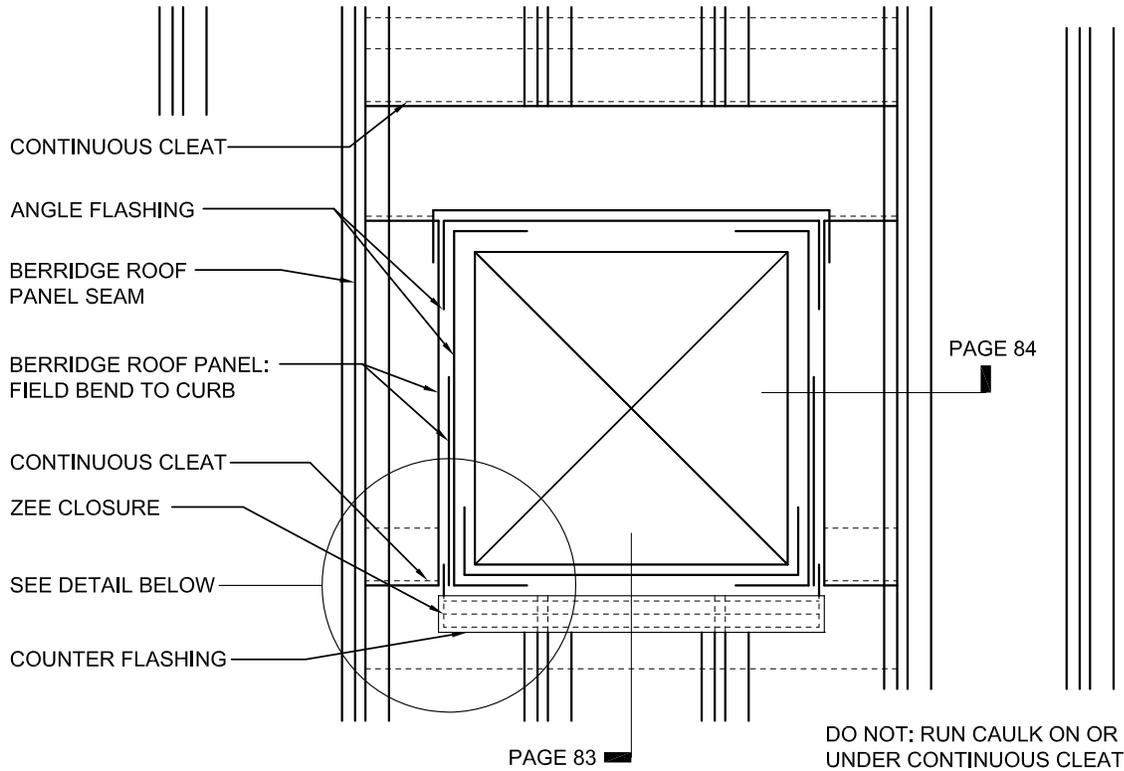
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COMMON DETAILS

SQUARE PENETRATION DETAIL; PLAN VIEW

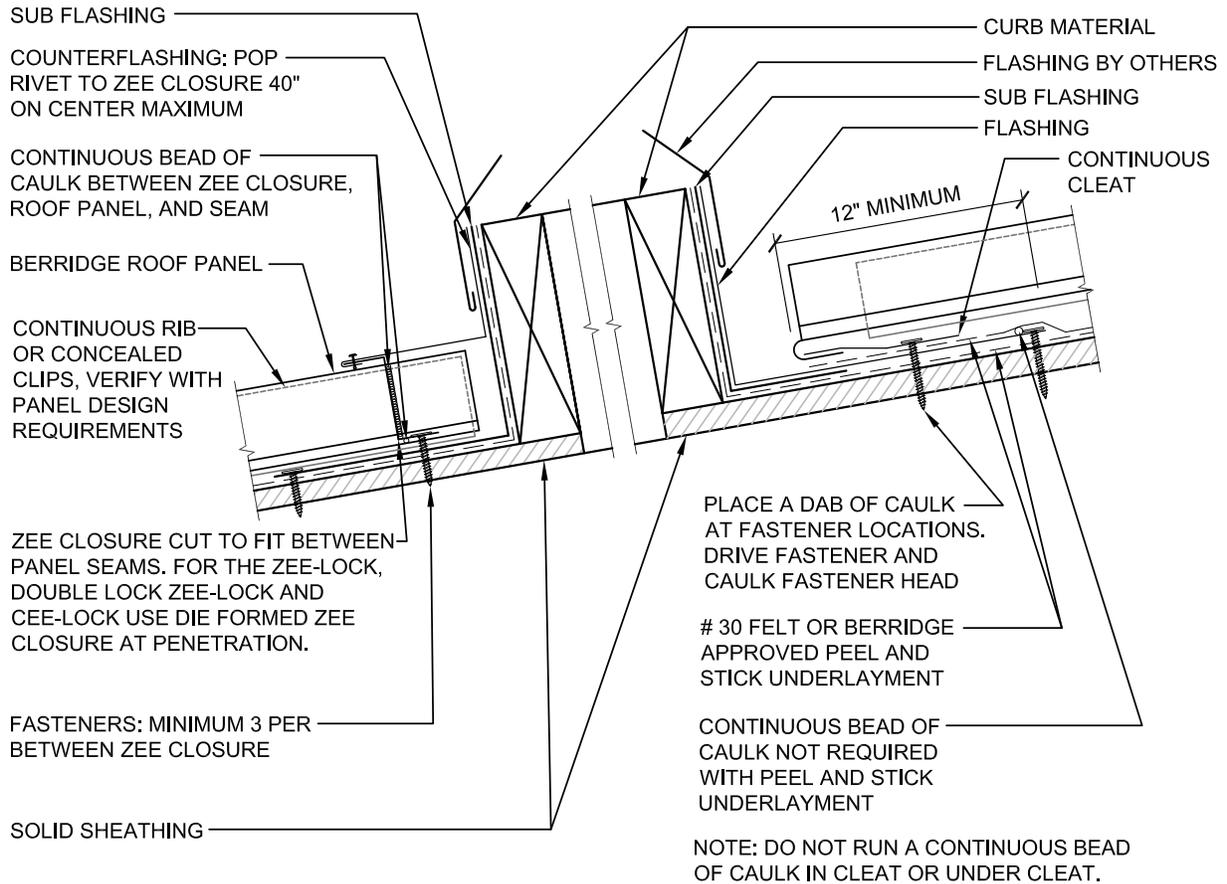


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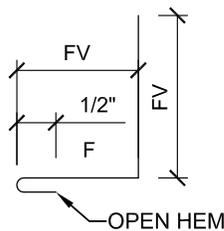
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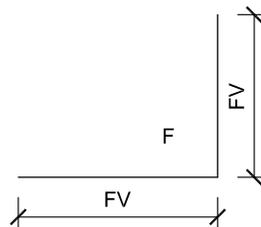
SQUARE PENETRATION DETAIL; SECTION VIEW



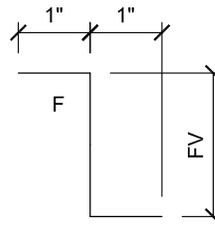
1. SOLID SHEATHING IS REQUIRED AT THIS CONDITION WHEN THE PANEL IS USED OVER OPEN FRAMING
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



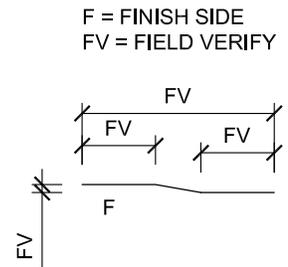
COUNTER FLASHING



SUB FLASHING



ZEE CLOSURE



CONTINUOUS CLEAT

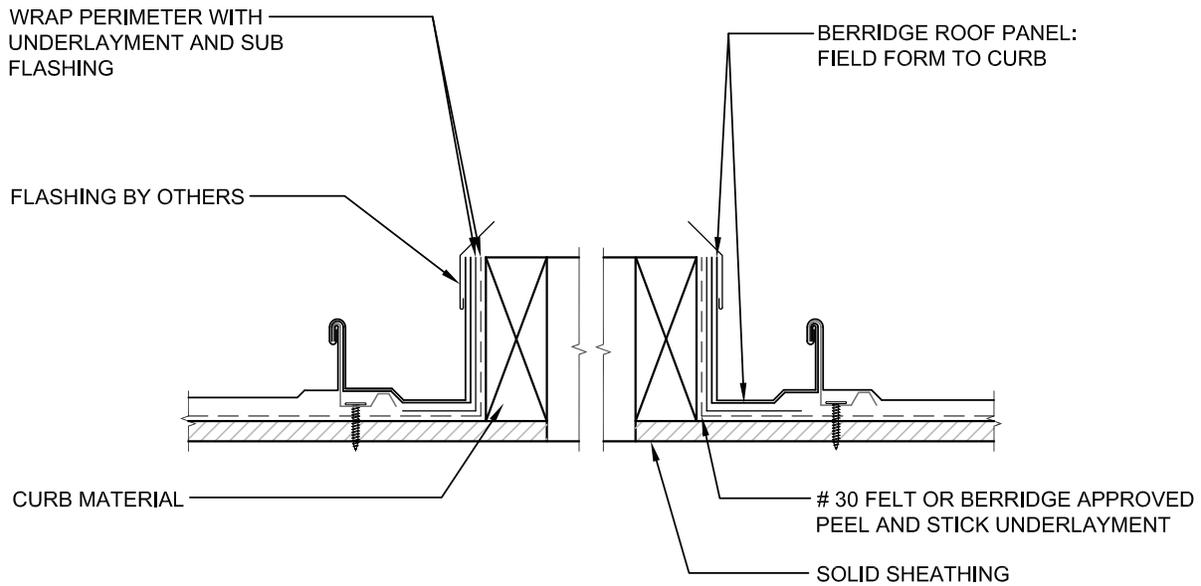
F = FINISH SIDE
FV = FIELD VERIFY

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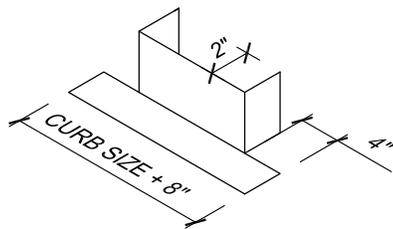
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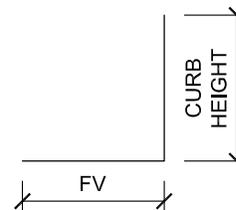
SQUARE PENETRATION DETAIL; SECTION VIEW



1. SOLID SHEATHING IS REQUIRED AT THIS CONDITION WHEN THE PANEL IS USED OVER OPEN FRAMING
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



WRAP FLASHING



SUB FLASHING

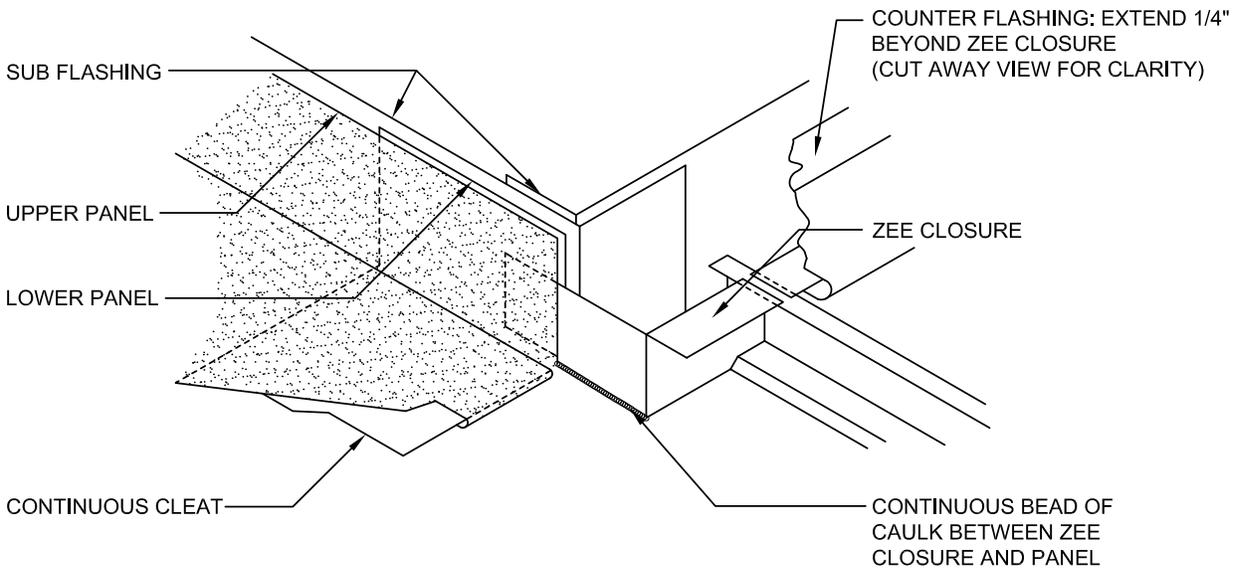
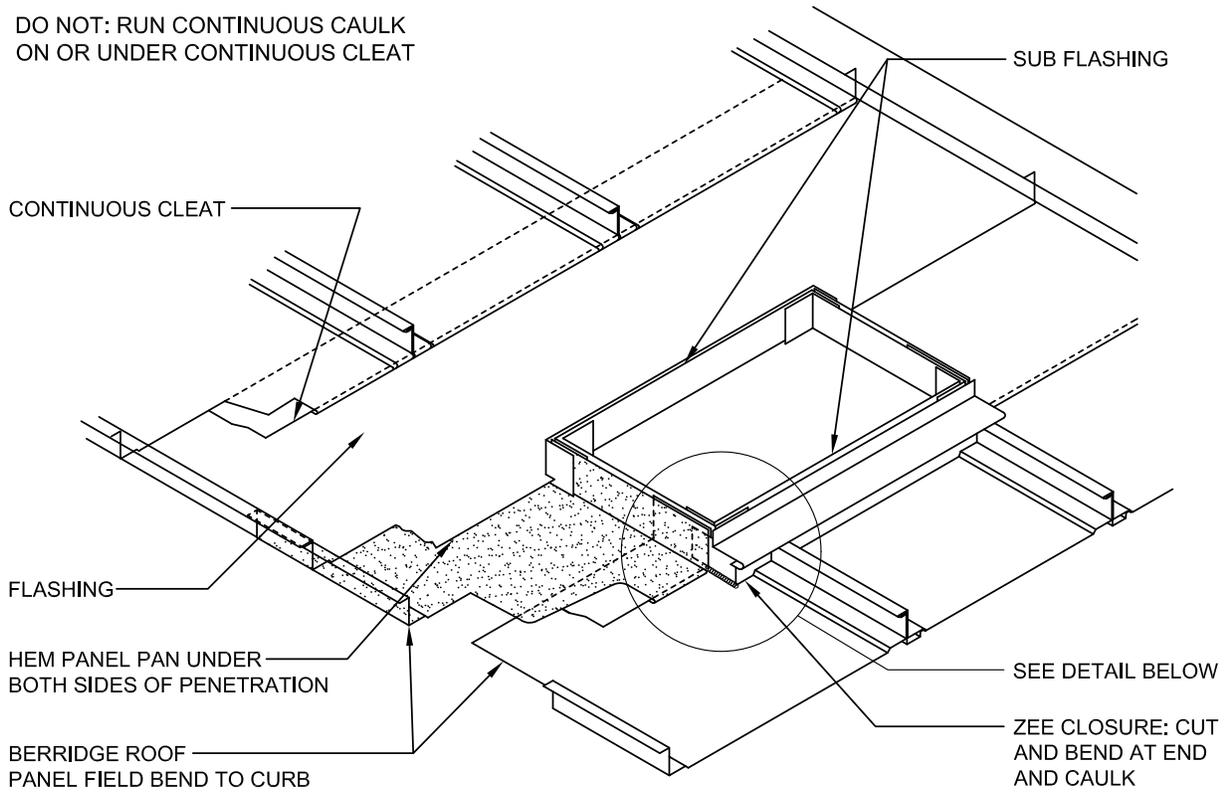
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SQUARE PENETRATION DETAIL; ISOMETRIC VIEW

DO NOT: RUN CONTINUOUS CAULK
ON OR UNDER CONTINUOUS CLEAT



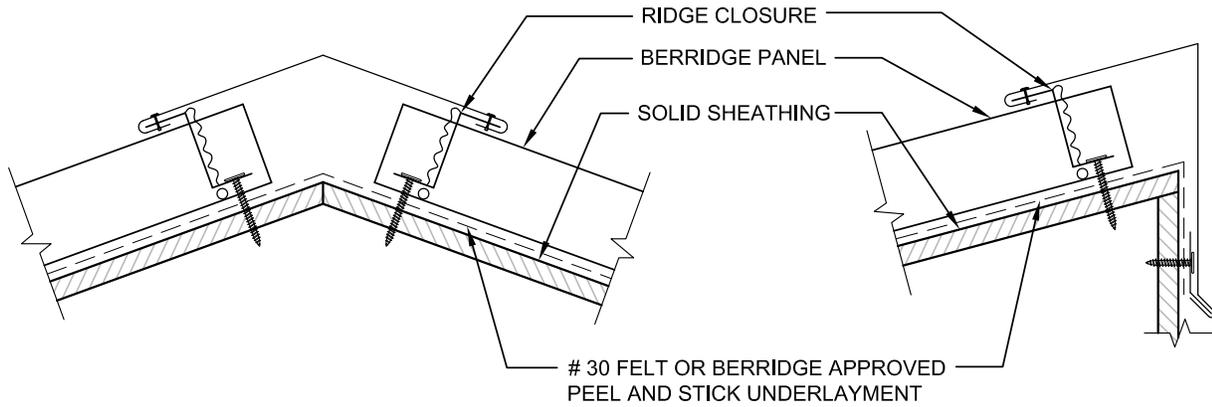
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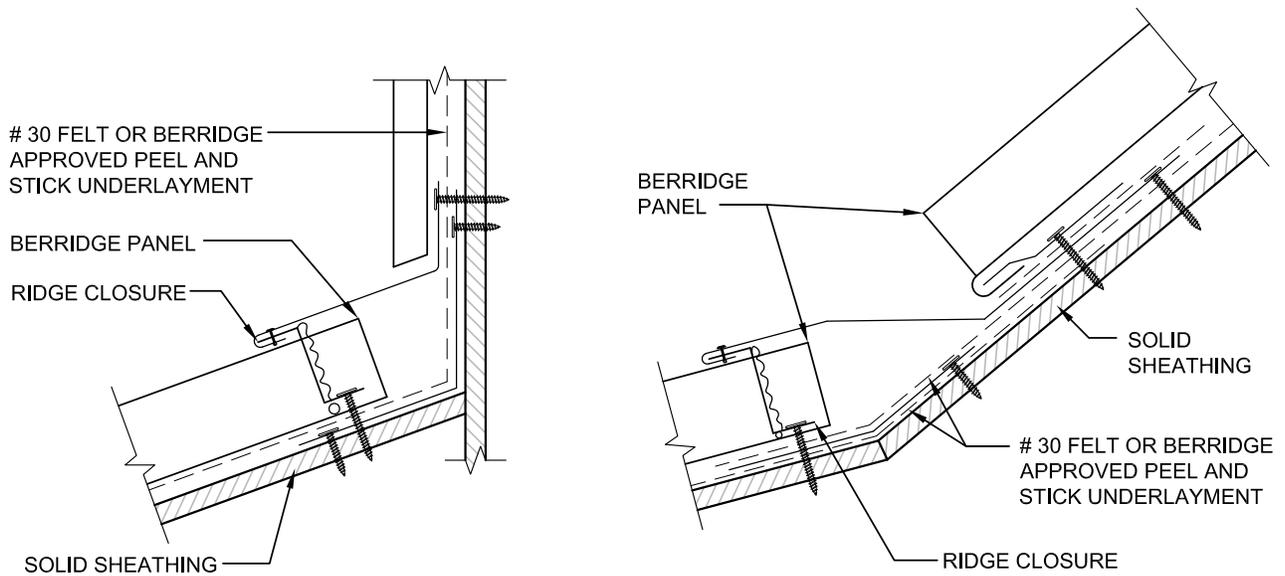
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COMMON DETAILS

TYPICAL ZEE-CLOSURE DETAIL



NOTE: SEE PAGE 127 FOR CEE-LOCK RIDGE CLOSURE. SEE PAGE 132 FOR ZEE-LOCK RIDGE CLOSURE.



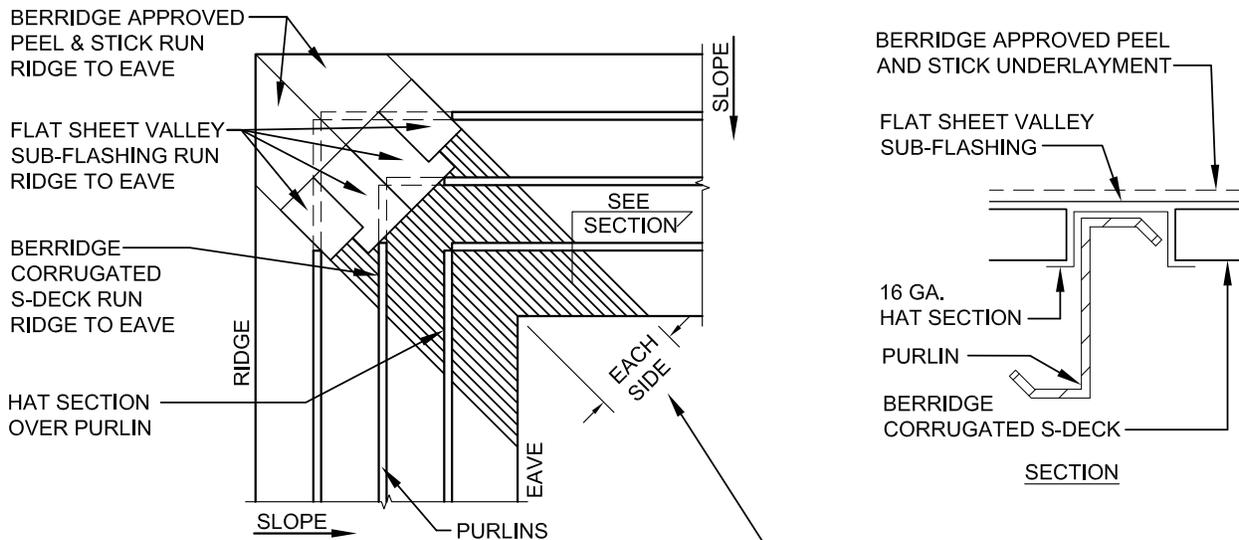
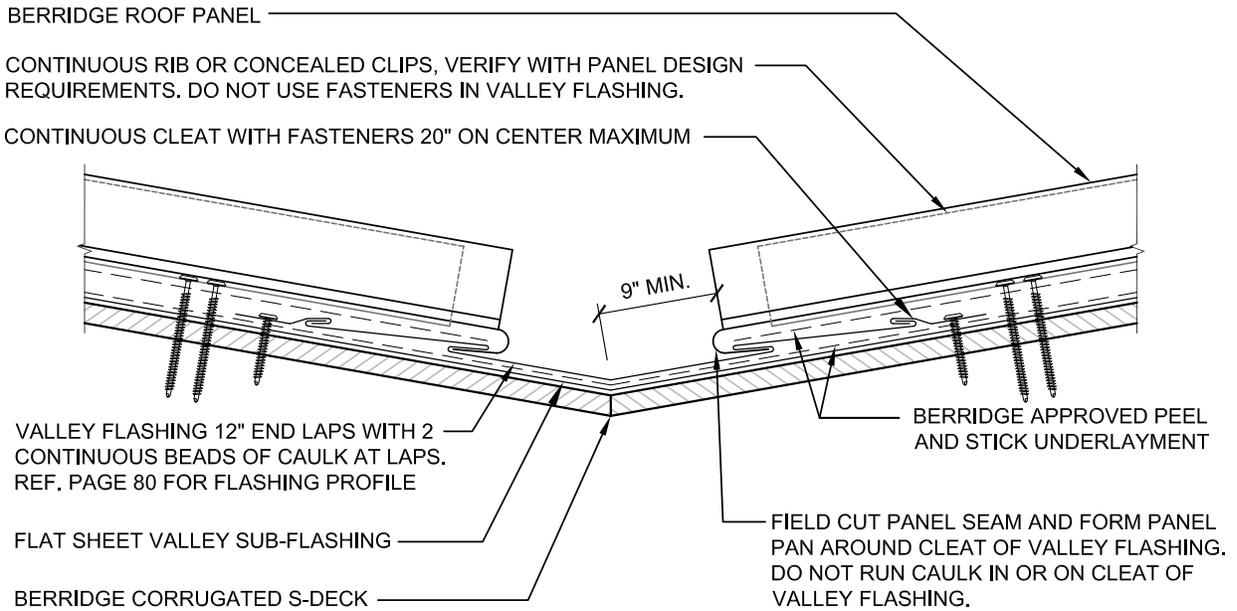
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COMMON DETAILS

VALLEY DETAILS - OPEN FRAMING



16 GA. HAT SECTION SIZED TO FIT OVER PURLIN AND TO ACCOMMODATE THE DEPTH OF THE BERRIDGE CORRUGATED S-DECK.

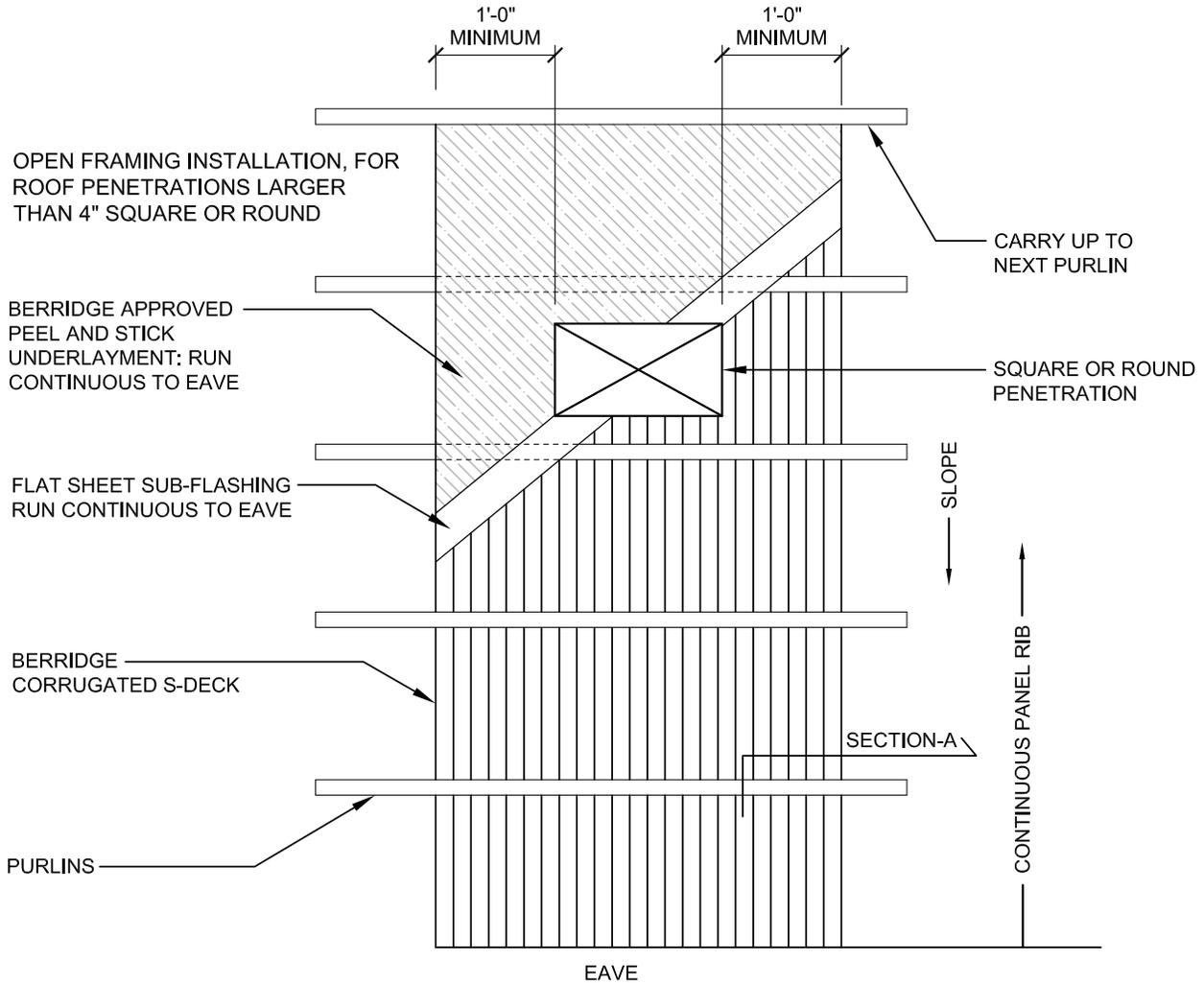
ROOFS WITH A SLOPE OF 4:12 OR LESS 6'-0" MIN. ROOFS ABOVE 4:12 3'-0" MIN.

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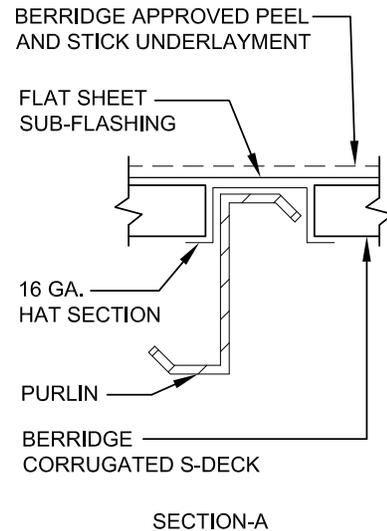
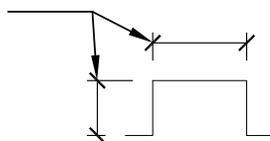
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SQUARE PENETRATION DETAIL - OPEN FRAMING



A 40-MIL MINIMUM THICKNESS, SELF-ADHERING MEMBRANE IS REQUIRED. REFER TO SPECIFICATIONS PAGE 18 FOR LIST OF APPROVED PRODUCTS.

16 GA. HAT SECTION SIZED TO FIT OVER PURLIN AND TO ACCOMMODATE THE DEPTH OF THE BERRIDGE CORRUGATED S-DECK.



BERRIDGE MANUFACTURING COMPANY

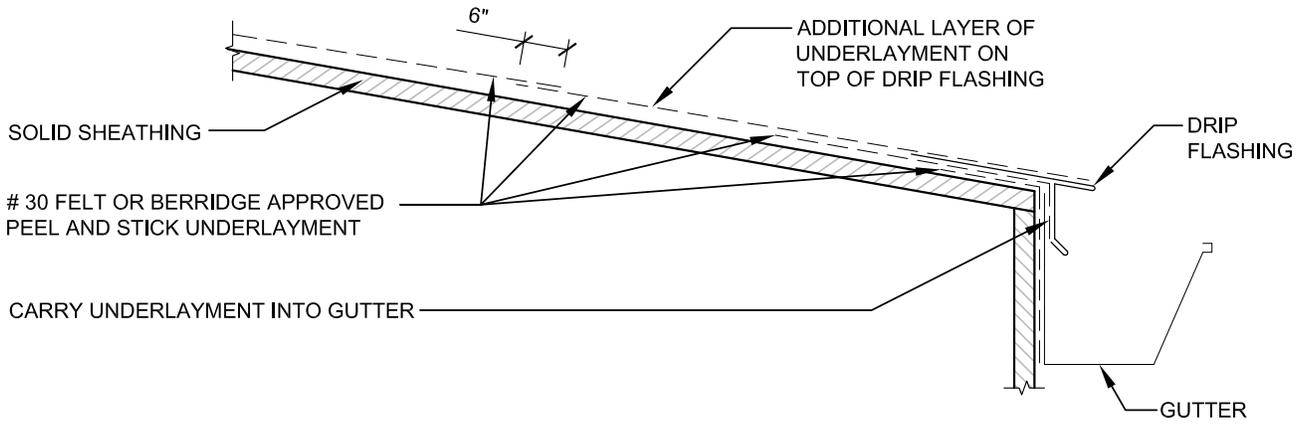
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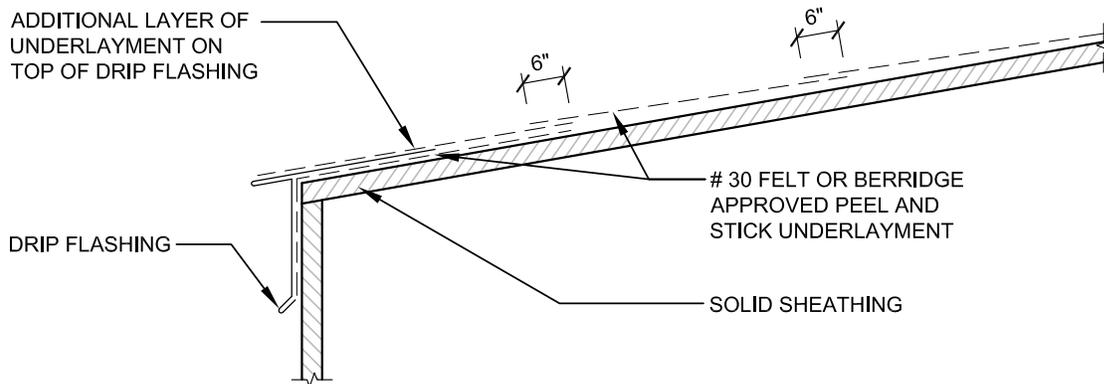
UNDERLAYMENT DETAILS

EAVE UNDERLAYMENT DETAILS

EAVE WITH GUTTER



EAVE



BERRIDGE MANUFACTURING COMPANY

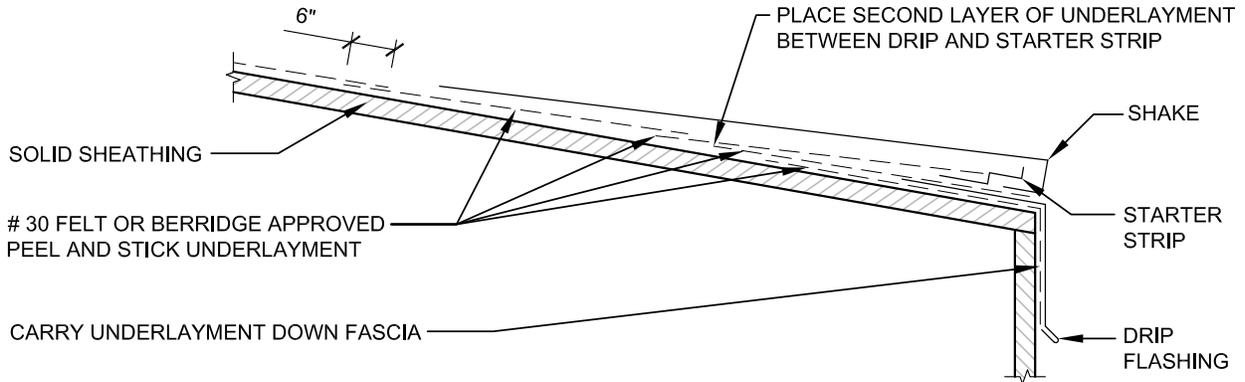
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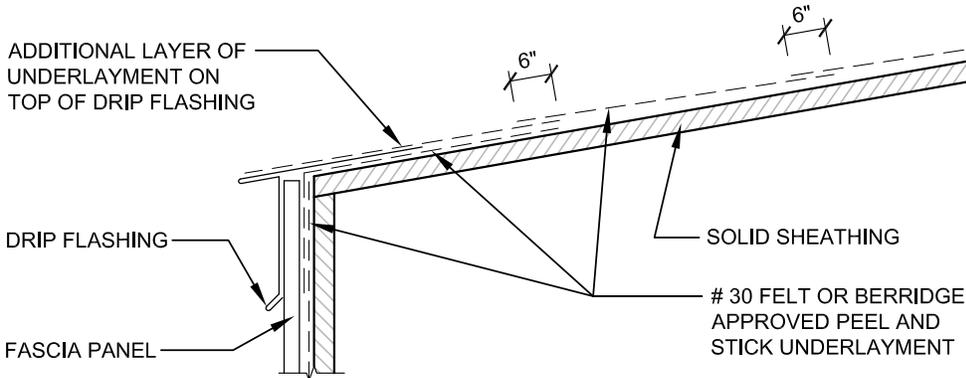
UNDERLAYMENT DETAILS

EAVE UNDERLAYMENT DETAILS

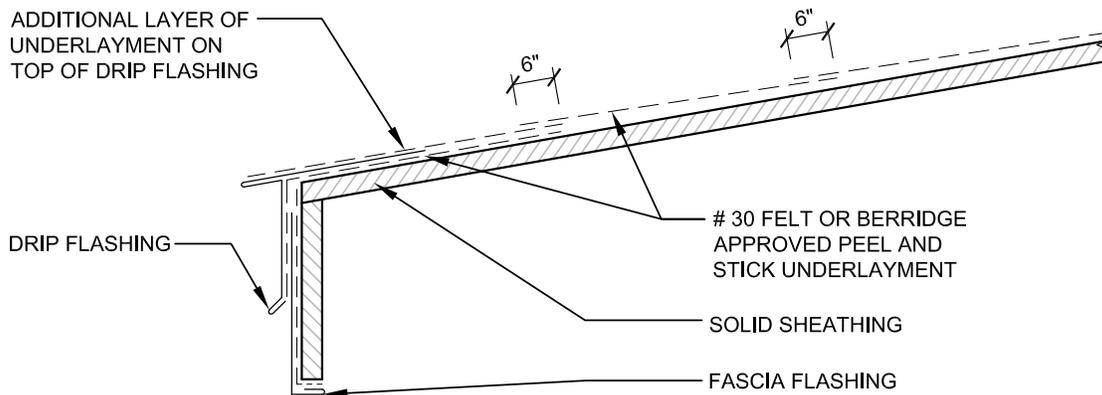
EAVE CONDITION FOR BERMUDA PANEL



EAVE WITH FASCIA PANEL



EAVE WITH FASCIA FLASHING



BERRIDGE MANUFACTURING COMPANY

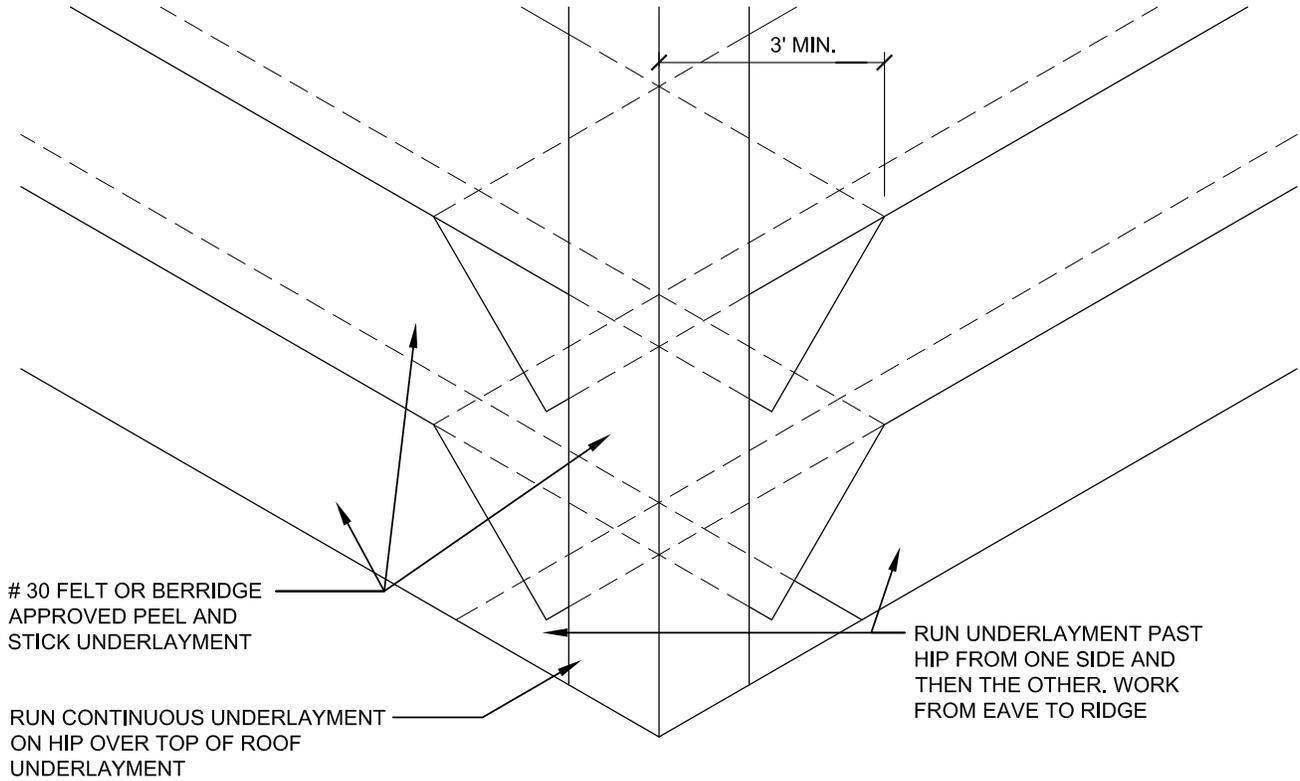
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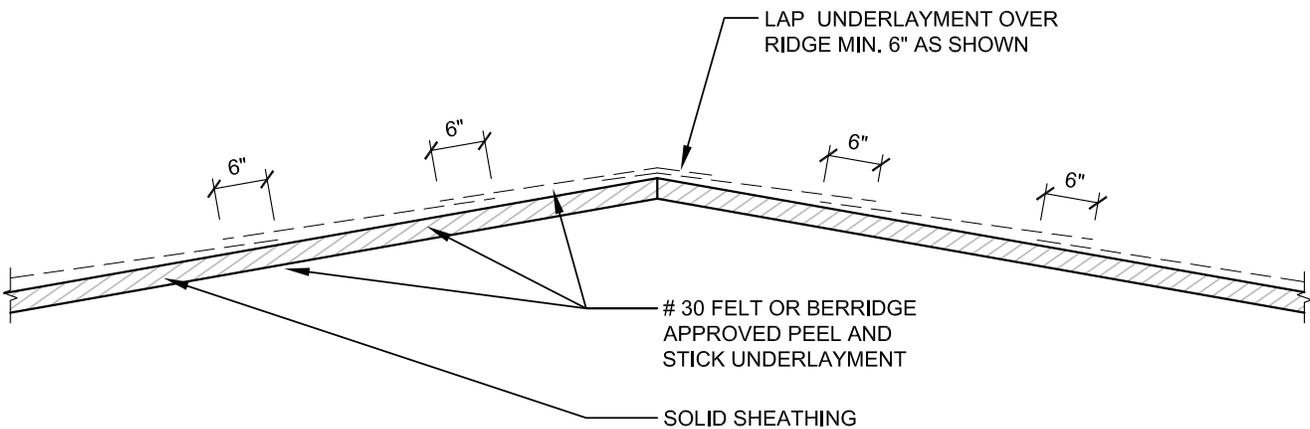
UNDERLAYMENT DETAILS

HIP/RIDGE UNDERLAYMENT DETAILS

HIP



RIDGE



Details

BERRIDGE MANUFACTURING COMPANY

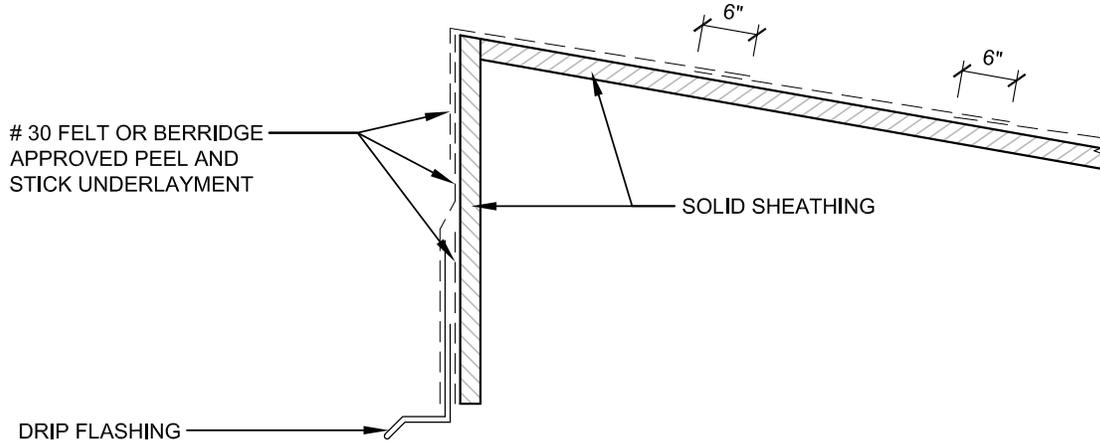
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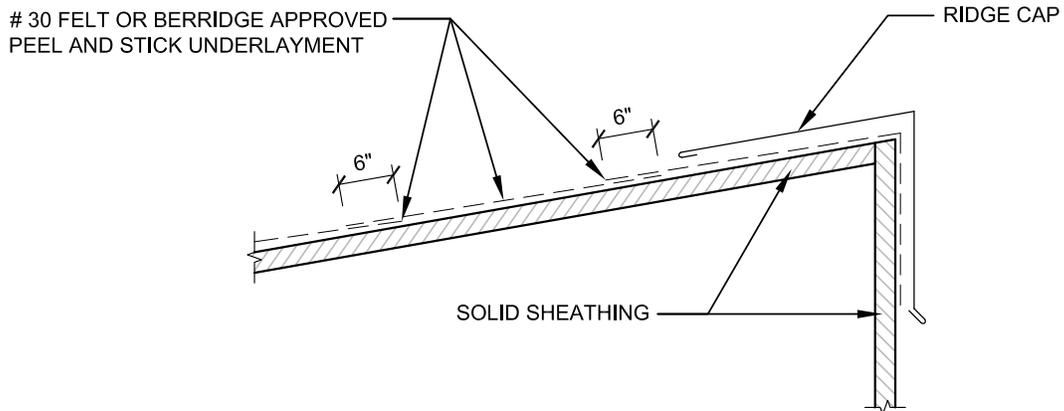
UNDERLAYMENT DETAILS

SHED RIDGE UNDERLAYMENT DETAILS

SHED RIDGE WITH WALL PANEL



SHED RIDGE



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UNDERLAYMENT DETAILS

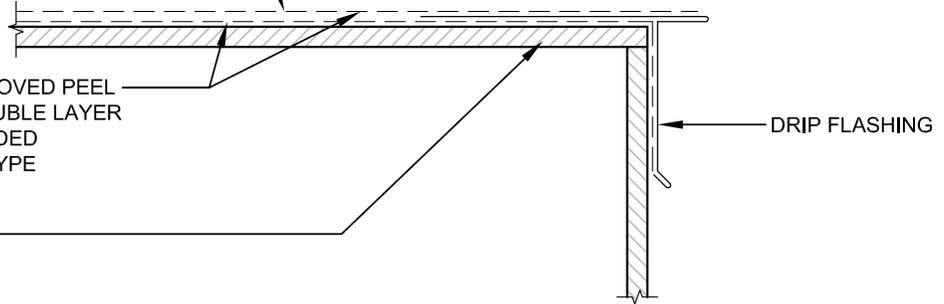
GABLE UNDERLAYMENT DETAILS

GABLE

UNDERLAYMENT: RUN (1) LAYER ON TOP OF DRIP FLASHING PARALLEL TO GABLE

#30 FELT OR BERRIDGE APPROVED PEEL & STICK UNDERLAYMENT: DOUBLE LAYER OF PEEL & STICK RECOMMENDED REGARDLESS OF FLASHING TYPE

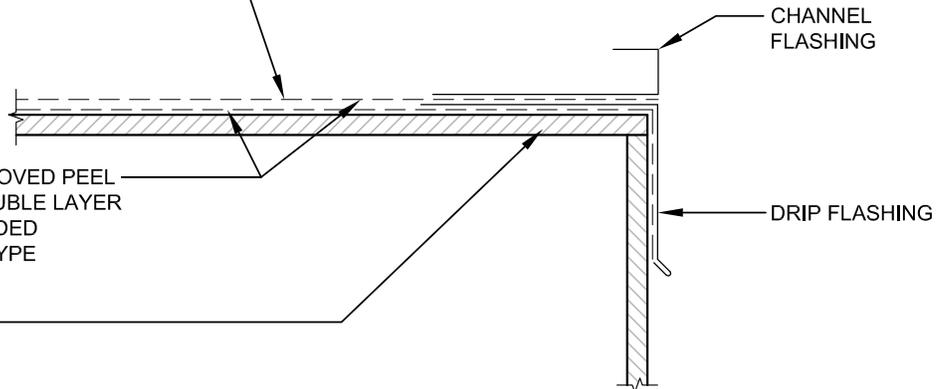
SOLID SHEATHING



UNDERLAYMENT: RUN (1) LAYER ON TOP OF DRIP FLASHING PARALLEL TO GABLE

#30 FELT OR BERRIDGE APPROVED PEEL & STICK UNDERLAYMENT: DOUBLE LAYER OF PEEL & STICK RECOMMENDED REGARDLESS OF FLASHING TYPE

SOLID SHEATHING



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UNDERLAYMENT DETAILS

GABLE UNDERLAYMENT DETAILS

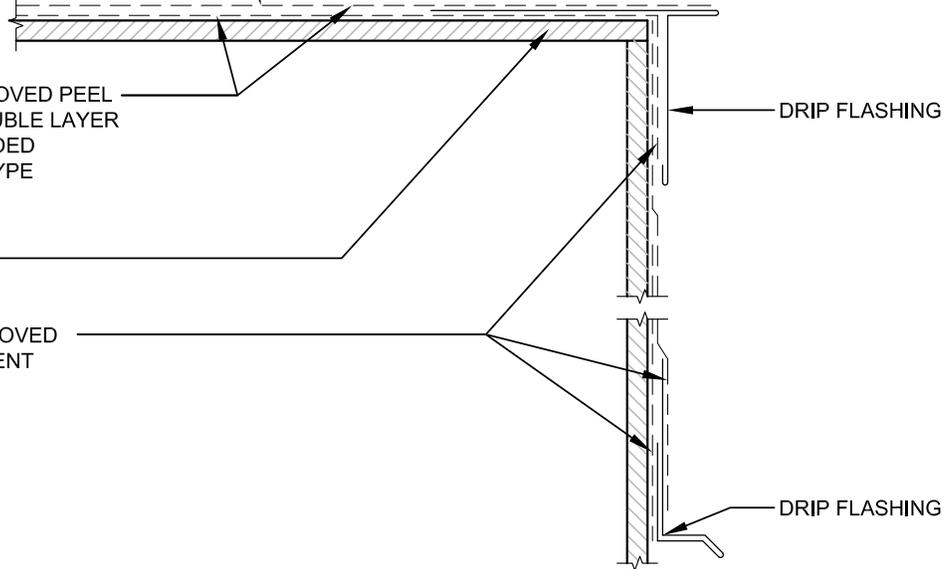
GABLE WITH WALL PANEL

UNDERLAYMENT: RUN (1) LAYER ON TOP OF DRIP FLASHING PARALLEL TO GABLE

#30 FELT OR BERRIDGE APPROVED PEEL & STICK UNDERLAYMENT: DOUBLE LAYER OF PEEL & STICK RECOMMENDED REGARDLESS OF FLASHING TYPE

SOLID SHEATHING

30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT



GABLE WITH FASCIA FLASHING

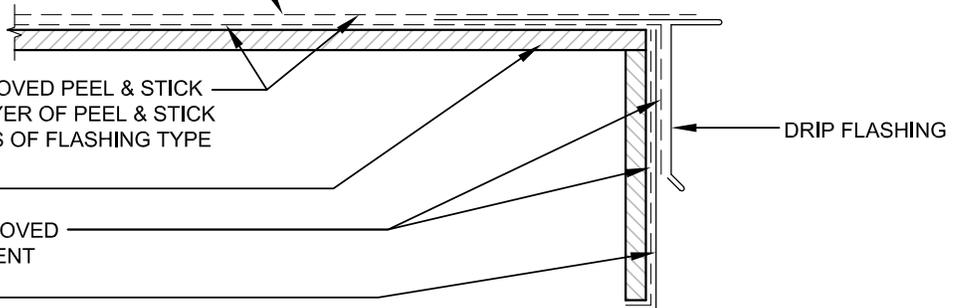
UNDERLAYMENT: RUN (1) LAYER ON TOP OF DRIP FLASHING PARALLEL TO GABLE

#30 FELT OR BERRIDGE APPROVED PEEL & STICK UNDERLAYMENT: DOUBLE LAYER OF PEEL & STICK RECOMMENDED REGARDLESS OF FLASHING TYPE

SOLID SHEATHING

30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT

FASCIA FLASHING



BERRIDGE MANUFACTURING COMPANY

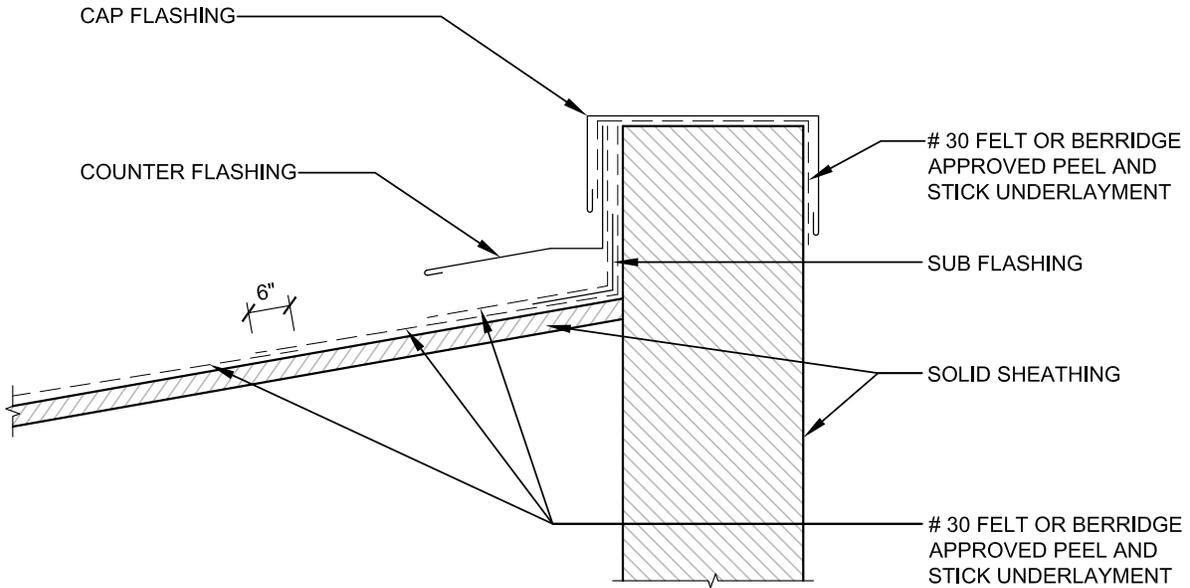
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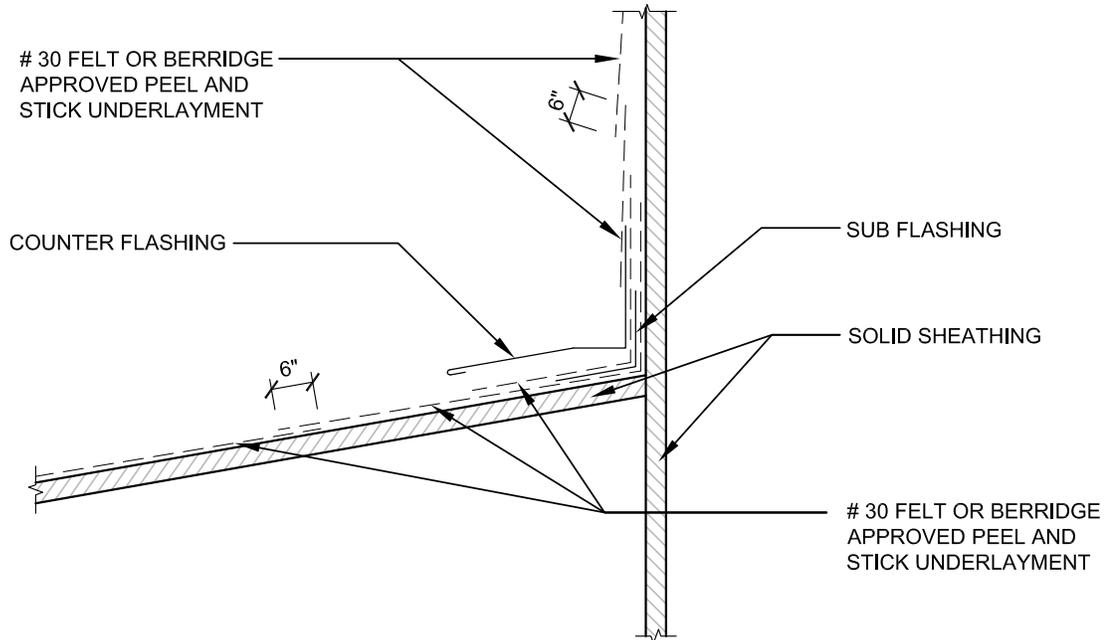
UNDERLAYMENT DETAILS

PARAPET/HEAD WALL UNDERLAYMENT DETAILS

PARAPET



HEAD WALL



BERRIDGE MANUFACTURING COMPANY

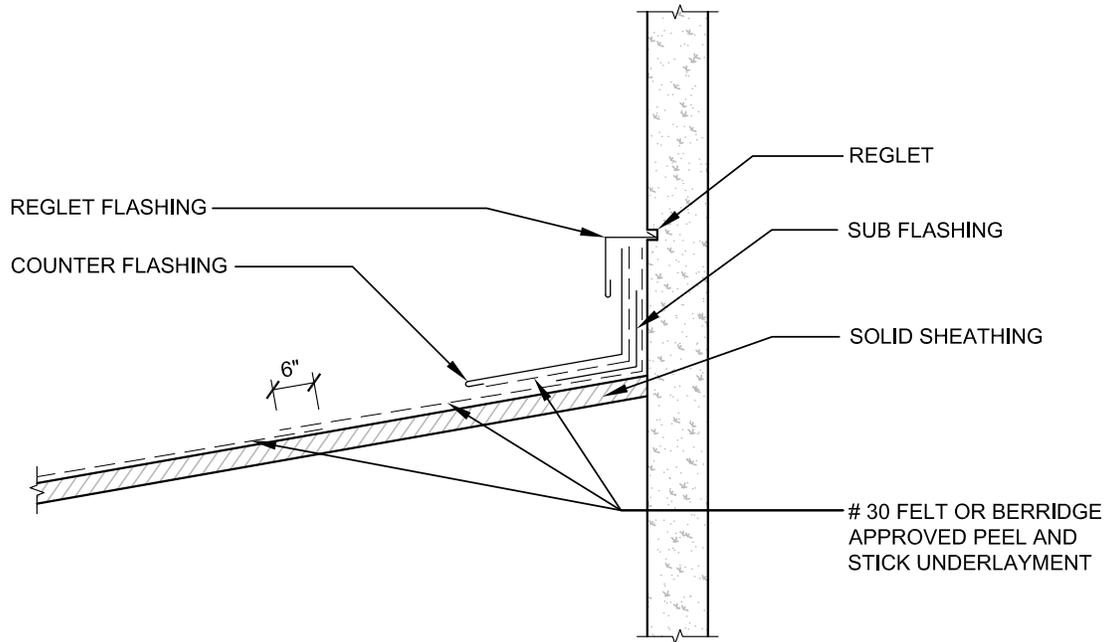
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UNDERLAYMENT DETAILS

PARAPET/HEAD WALL UNDERLAYMENT DETAILS

HEAD WALL WITH REGLET



Details

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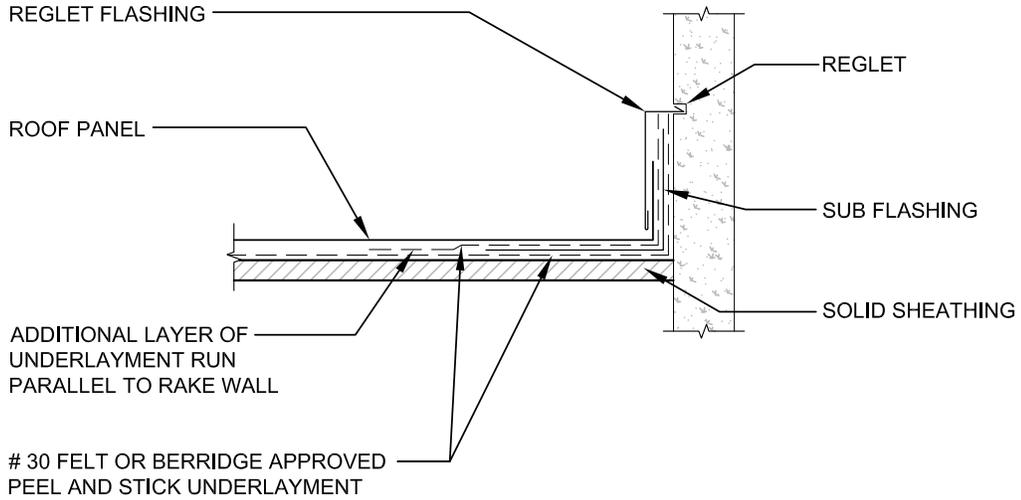
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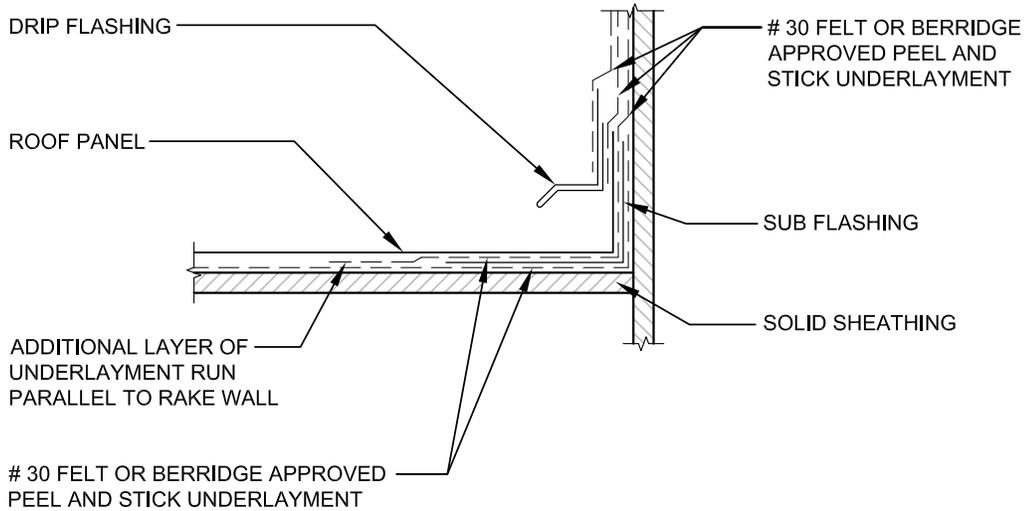
UNDERLAYMENT DETAILS

PARAPET/RAKE WALL UNDERLAYMENT DETAILS

RAKE WALL WITH REGLET



RAKE WALL WITH WALL PANEL



BERRIDGE MANUFACTURING COMPANY

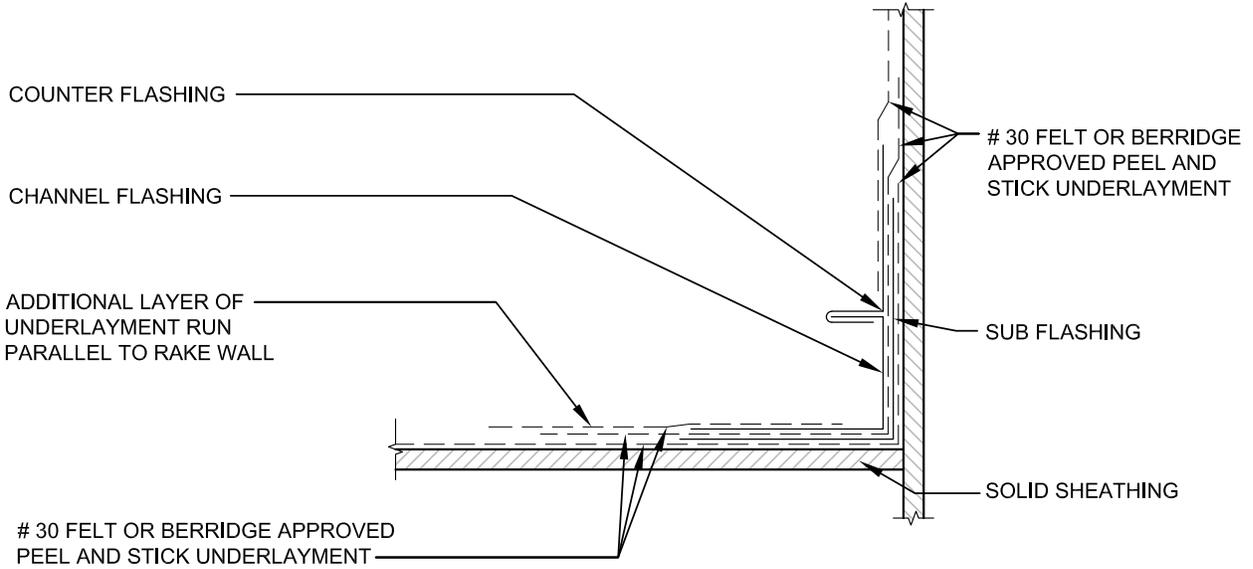
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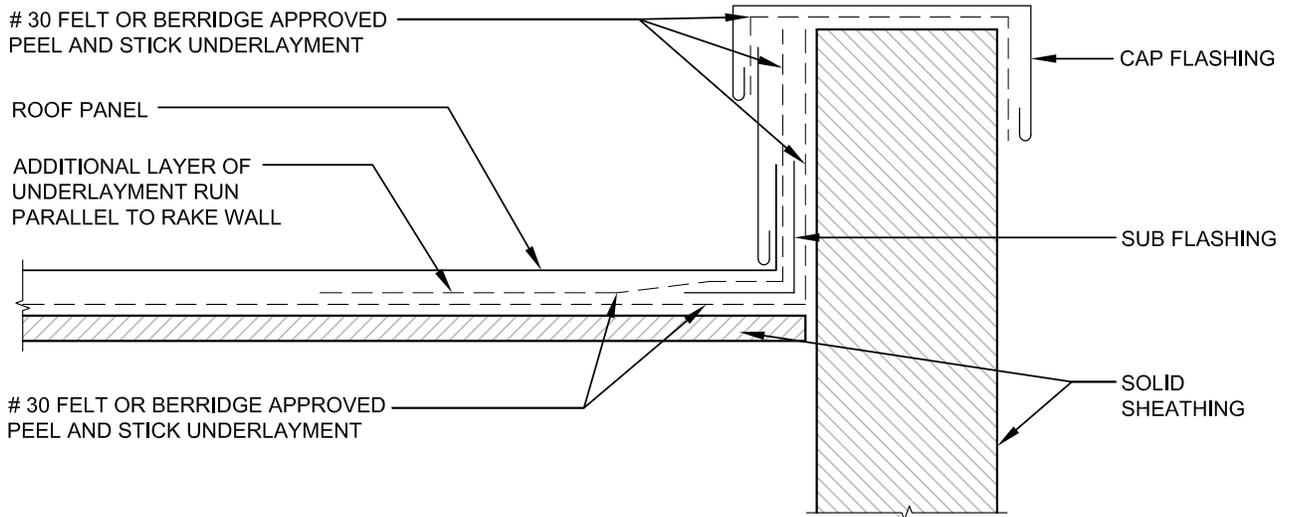
UNDERLAYMENT DETAILS

PARAPET/RAKE WALL UNDERLAYMENT DETAILS

RAKE WALL



PARAPET



BERRIDGE MANUFACTURING COMPANY

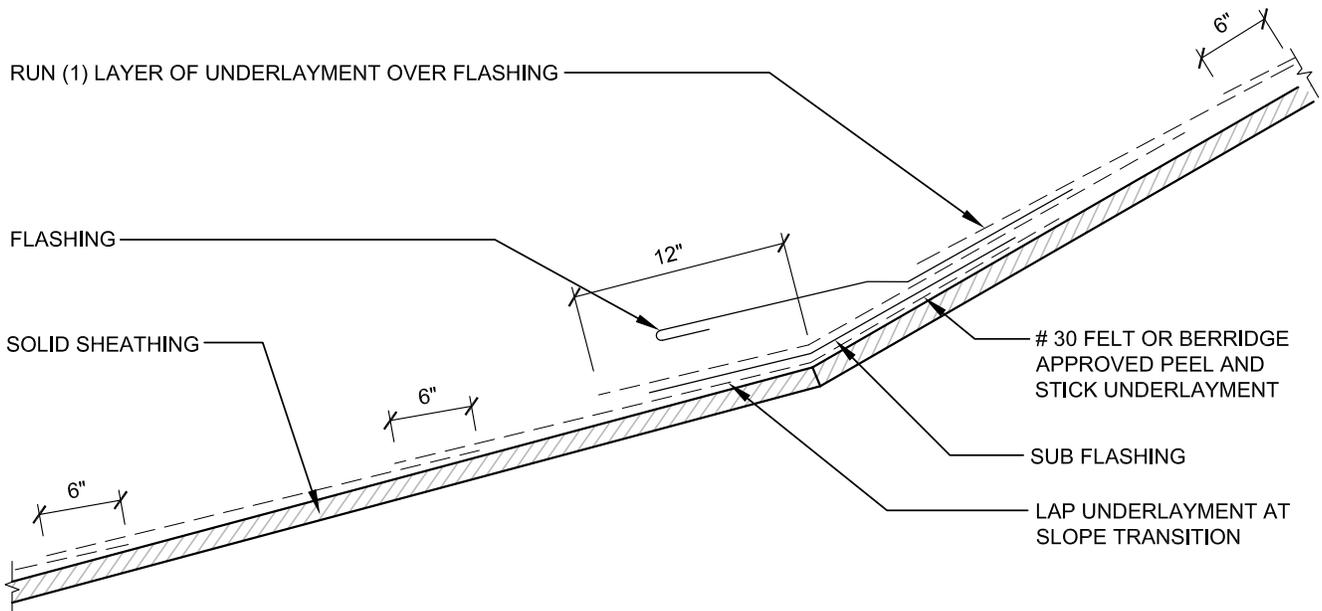
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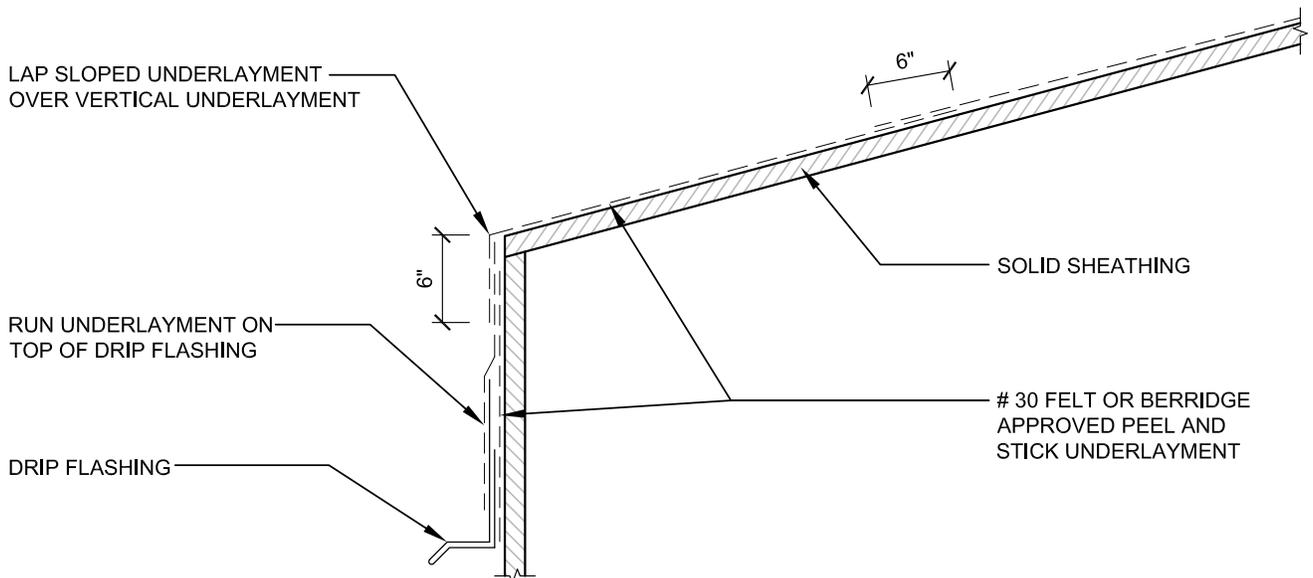
UNDERLAYMENT DETAILS

SLOPE TRANSITION UNDERLAYMENT DETAILS

SLOPE TRANSITION WITH FLASHING



SLOPE TRANSITION



BERRIDGE MANUFACTURING COMPANY

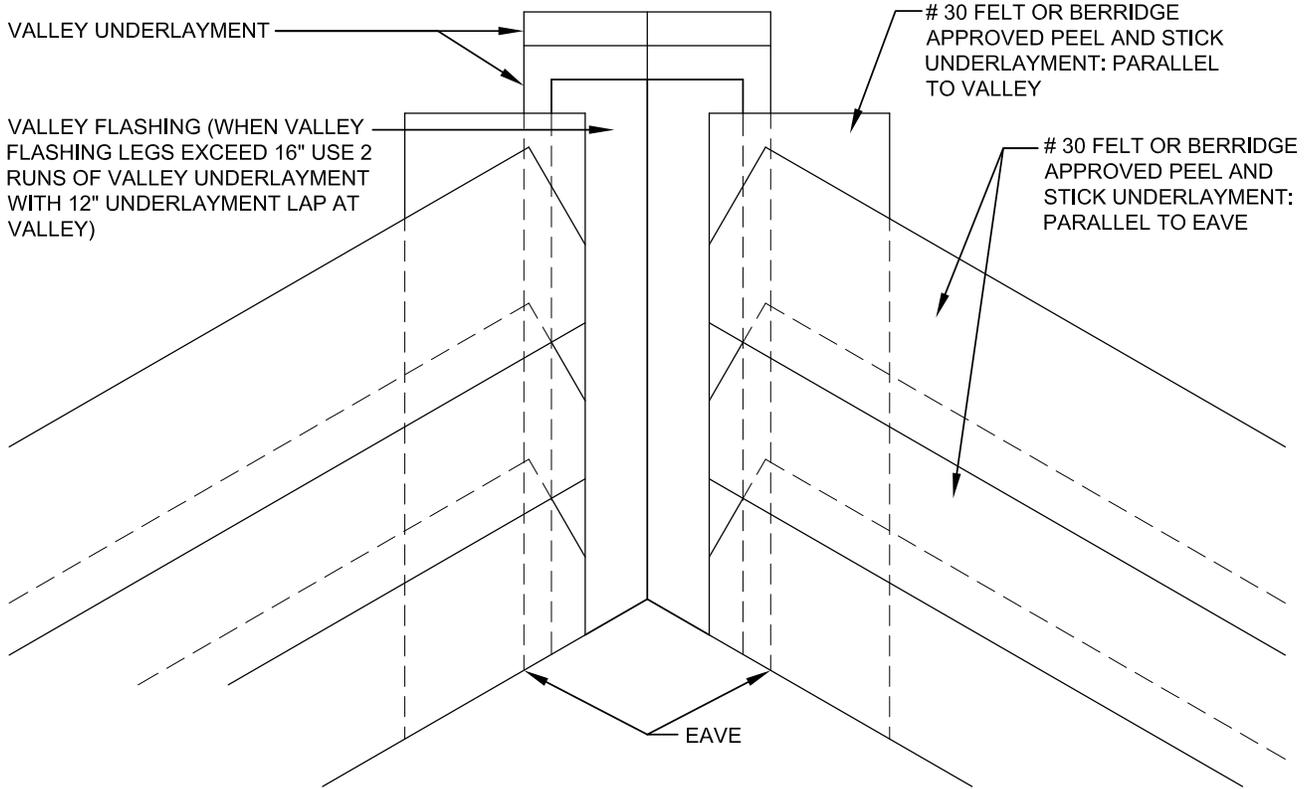
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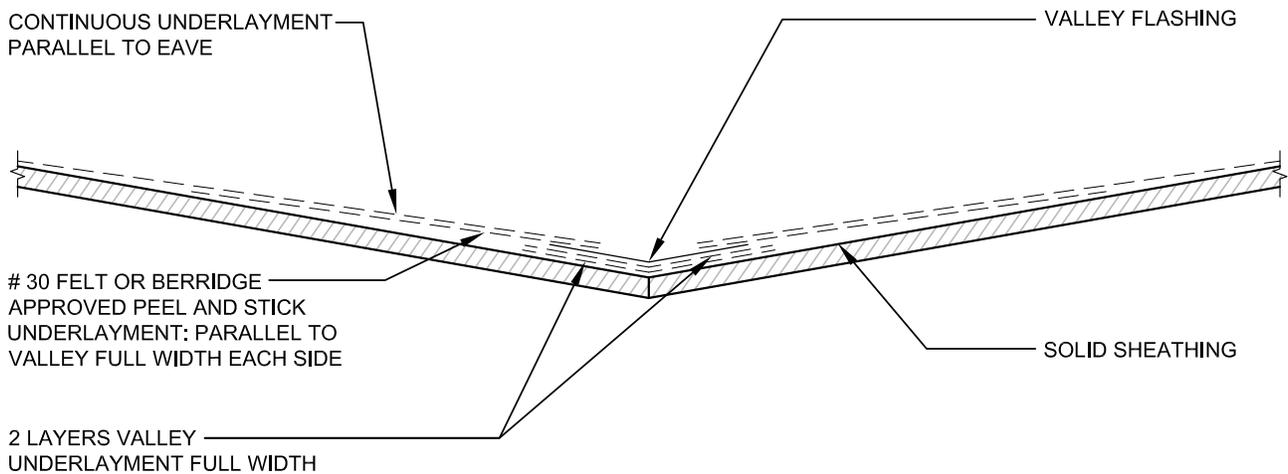
UNDERLAYMENT DETAILS

VALLEY UNDERLAYMENT DETAILS

VALLEY - PLAN VIEW



VALLEY SECTION



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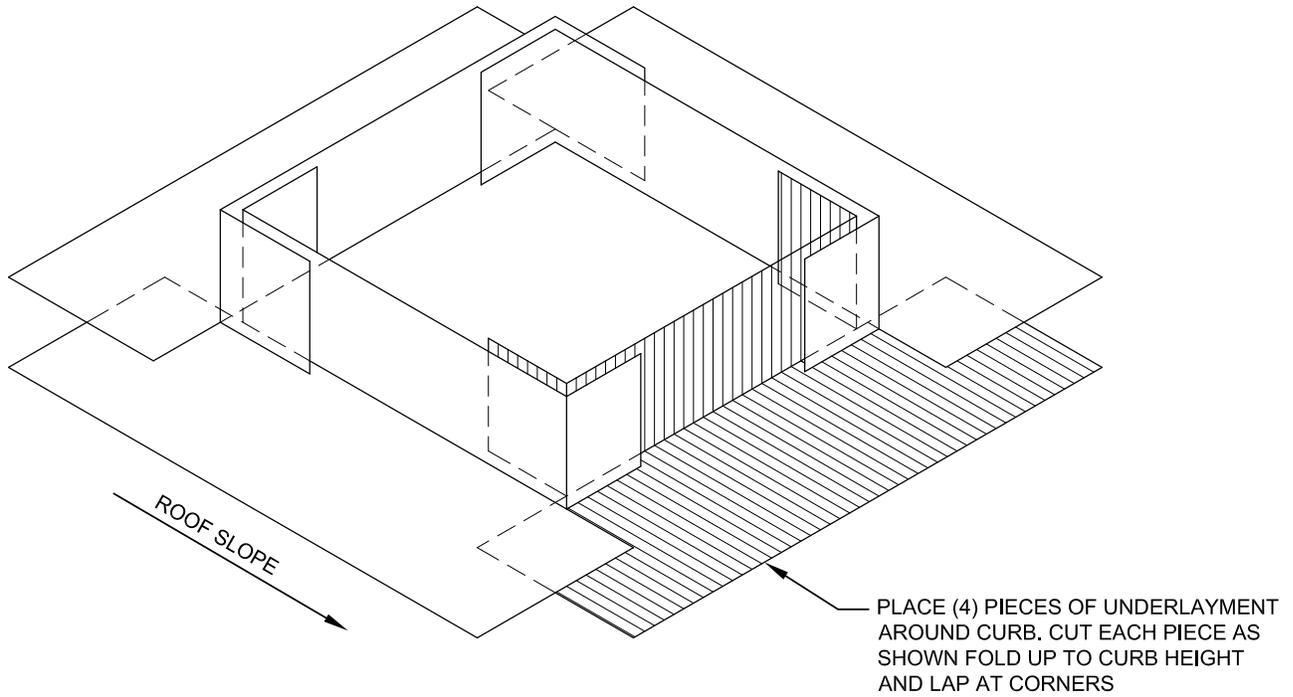
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UNDERLAYMENT DETAILS

ROOF PENETRATION UNDERLAYMENT DETAILS

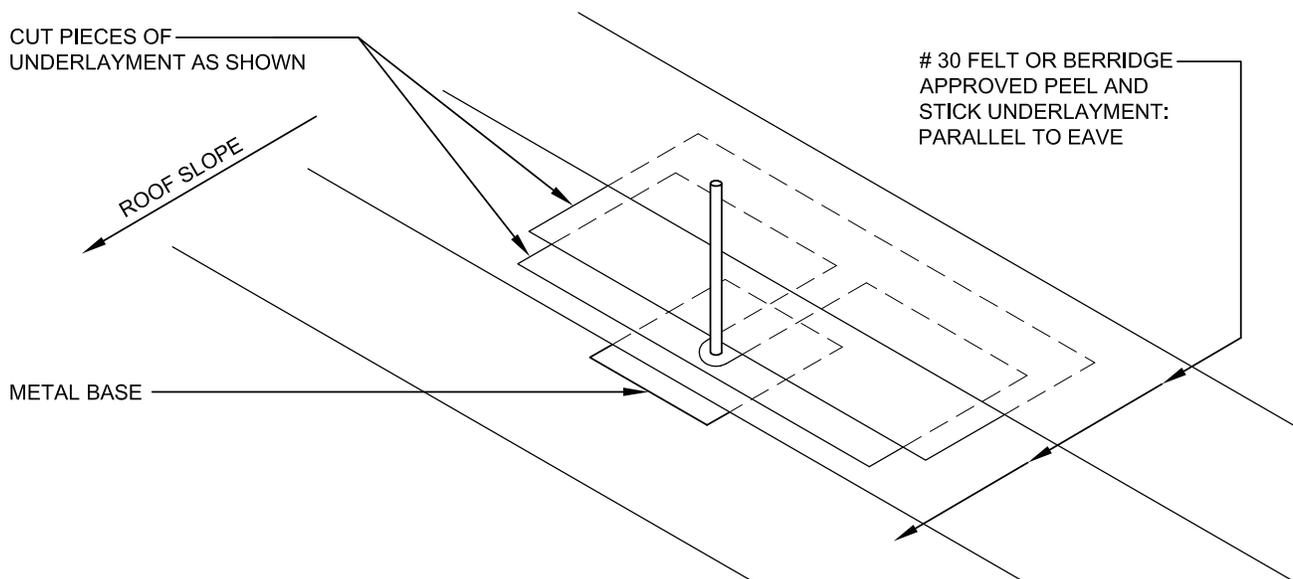
ROOF PENETRATION



ROOF JACK

LAP UNDERLAYMENT OVER TOP OF BASE. INSULATE BETWEEN DISSIMILAR METALS WITH ROOFING PEEL & STICK

CUT PIECES OF UNDERLAYMENT AS SHOWN



BERRIDGE MANUFACTURING COMPANY

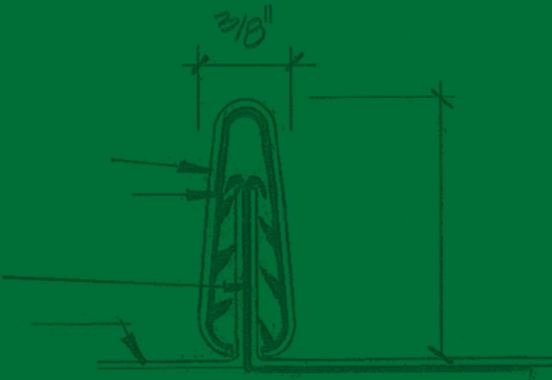
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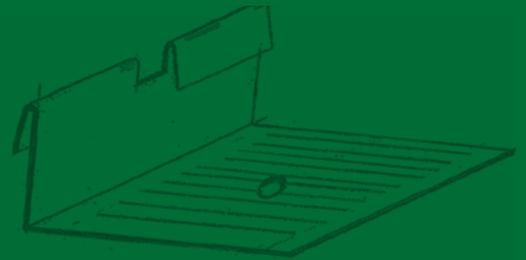
SECTION 3

STANDING SEAM

ROOF SYSTEMS



- TEE-PANEL & HIGH SEAM TEE-PANEL
- CURVED TEE-PANEL
- CEE-LOCK PANEL
- ZEE-LOCK PANEL
- DOUBLE-LOCK ZEE-LOCK PANEL
- TEE-LOCK PANEL



For the most up-to-date information visit www.berridge.com

SECTION 3 STANDING SEAM ROOF SYSTEMS

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Notes: Please review Common Details Section 2 for eave, ridge, hip, gable, parapet, etc. details. Consult Design Guide Section 1 for additional information on UL Fire Assemblies. You may also visit www.berridge.com for complete information.

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SECTION 3 STANDING SEAM ROOF SYSTEMS

NOTE:

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions.

Berridge Manufacturing Company shall be held harmless from any and all claims arising from lack of watertightness as a result of following these recommended details. Ensuring watertightness on any given project is the function of the installer. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements and assure adequate watertightness.

The installer can virtually assure watertightness if these details have been properly adapted, adequate laps have been provided, correct type of underlayment and sealant used, all joints adequately caulked and professional workmanship employed.

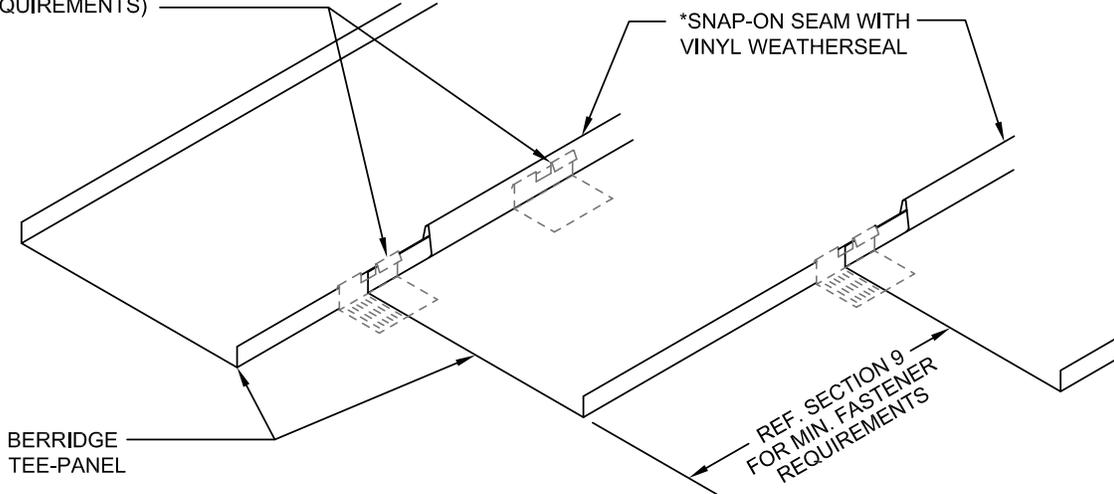
Should a watertightness warranty be required on a specific project, please refer to the procedures outlined in the "Design Guide" section of this manual. These procedures must be adhered to in order for Berridge to issue any type of watertightness warranty.

NOTES

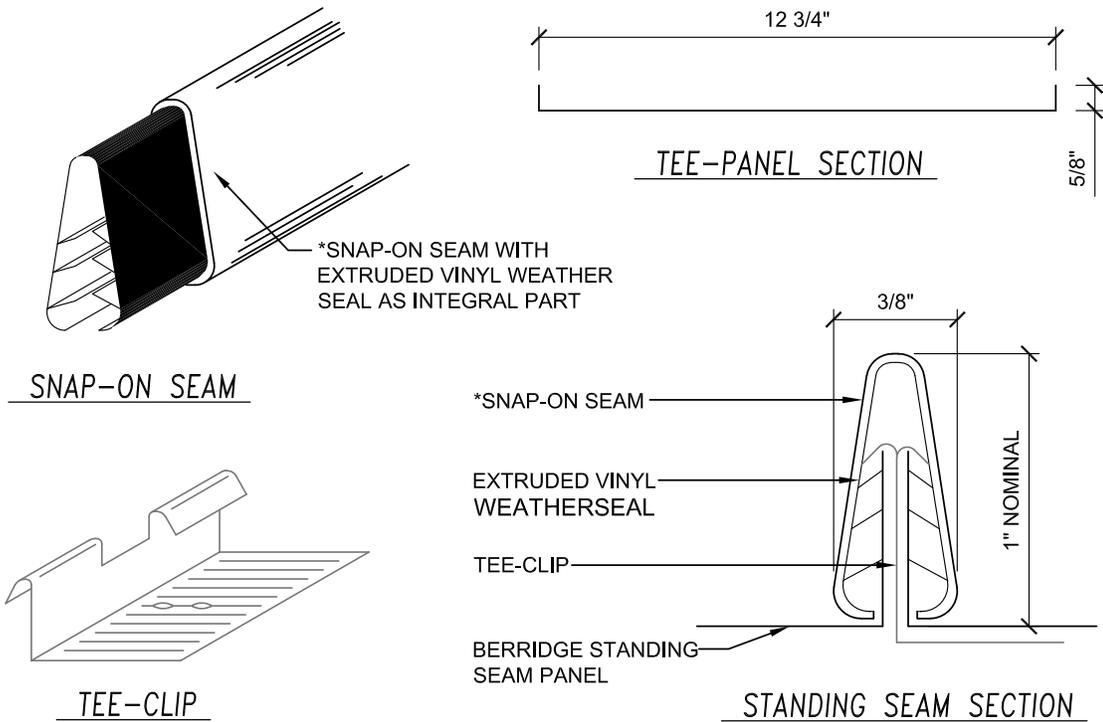
TEE-PANEL

TEE-PANEL OVERVIEW

TEE-CLIP: CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING TO FASTENER TYPE & CLIP SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



*SNAP-ON SEAM IS COVERED UNDER US PATENT NUMBER 4,641,475.



Standing Seam

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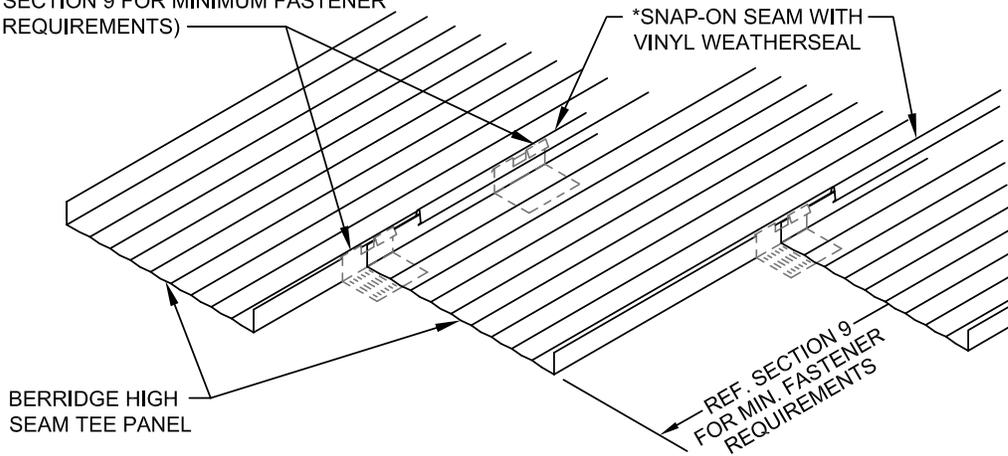
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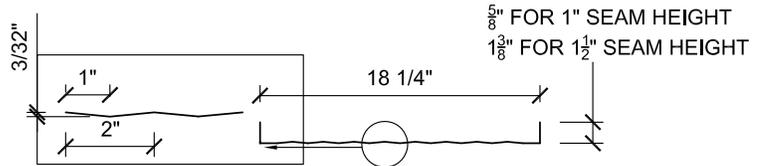
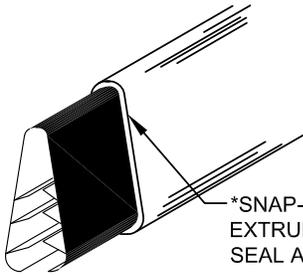
HIGH SEAM TEE-PANEL

HIGH SEAM TEE-PANEL OVERVIEW

HIGH SEAM TEE-CLIP: CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING TO FASTENER TYPE & CLIP SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



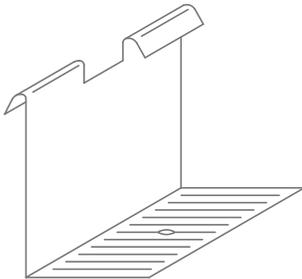
*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.



HIGH SEAM TEE PANEL SECTION RIGID PROFILE STANDARD

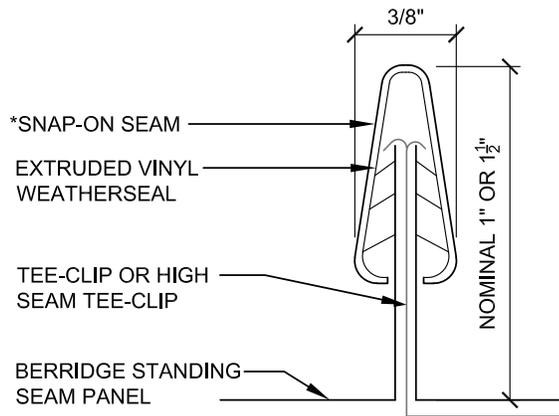
TEE-PANEL SECTION

SNAP-ON SEAM



USE TEE-CLIP FOR 1" PANEL. USE HIGH SEAM TEE-CLIP FOR 1 1/2" PANEL.

TEE-CLIP



STANDING SEAM SECTION

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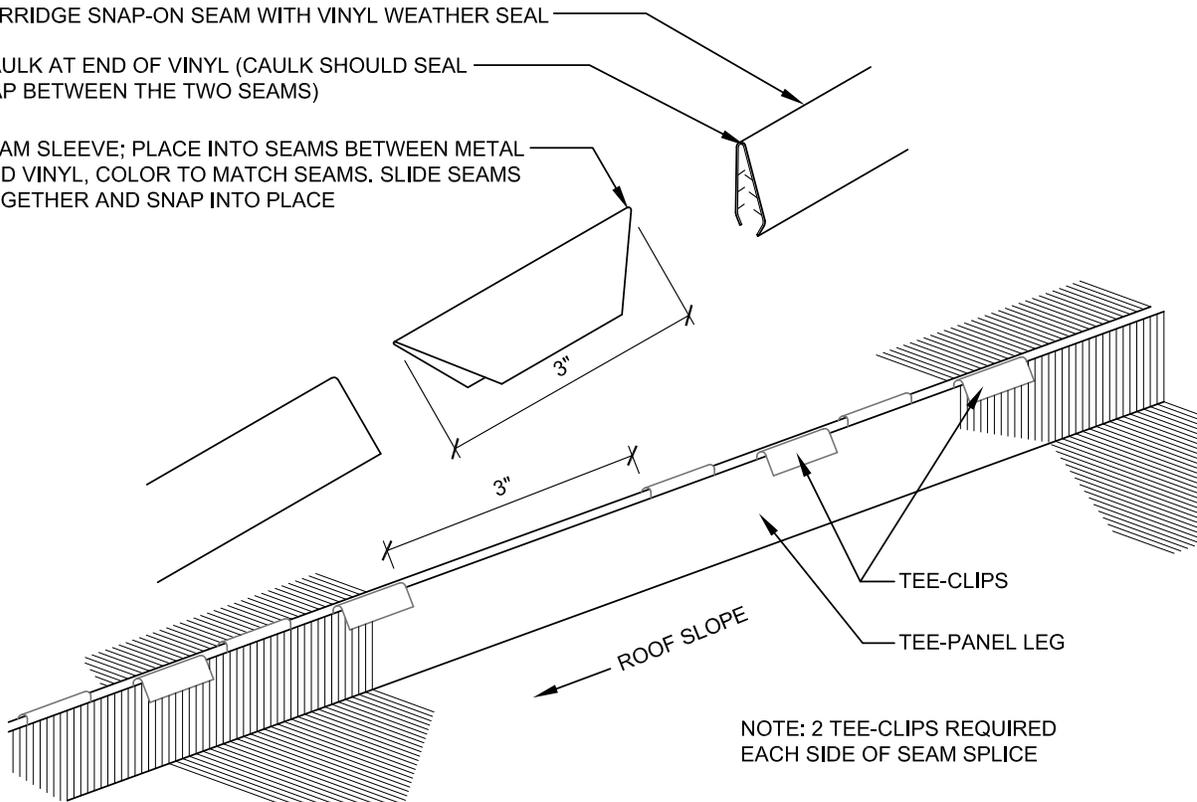
TEE-PANEL & HIGH SEAM TEE-PANEL

SEAM SPLICE DETAIL

*BERRIDGE SNAP-ON SEAM WITH VINYL WEATHER SEAL

CAULK AT END OF VINYL (CAULK SHOULD SEAL GAP BETWEEN THE TWO SEAMS)

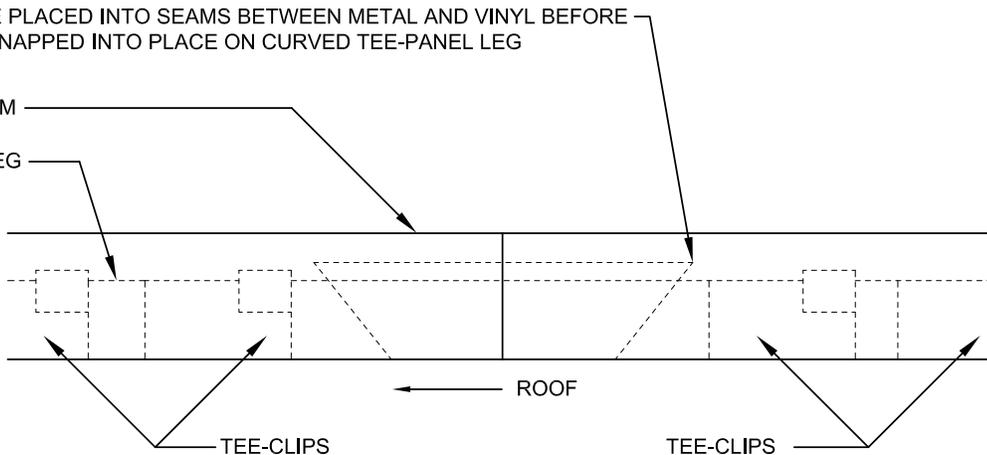
SEAM SLEEVE; PLACE INTO SEAMS BETWEEN METAL AND VINYL, COLOR TO MATCH SEAMS. SLIDE SEAMS TOGETHER AND SNAP INTO PLACE



SEAM SLEEVE PLACED INTO SEAMS BETWEEN METAL AND VINYL BEFORE SEAMS ARE SNAPPED INTO PLACE ON CURVED TEE-PANEL LEG

*SNAP-ON SEAM

TEE-PANEL LEG



NOTE: 1) SPLICES IN SEAMS AND PANELS SHOULD BE STAGGERED. NEVER SPLICE A PANEL AND A SEAM AT THE SAME LOCATION.

2) TWO TEE-CLIPS REQUIRED AT EACH SIDE OF SEAM SPLICE.

*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

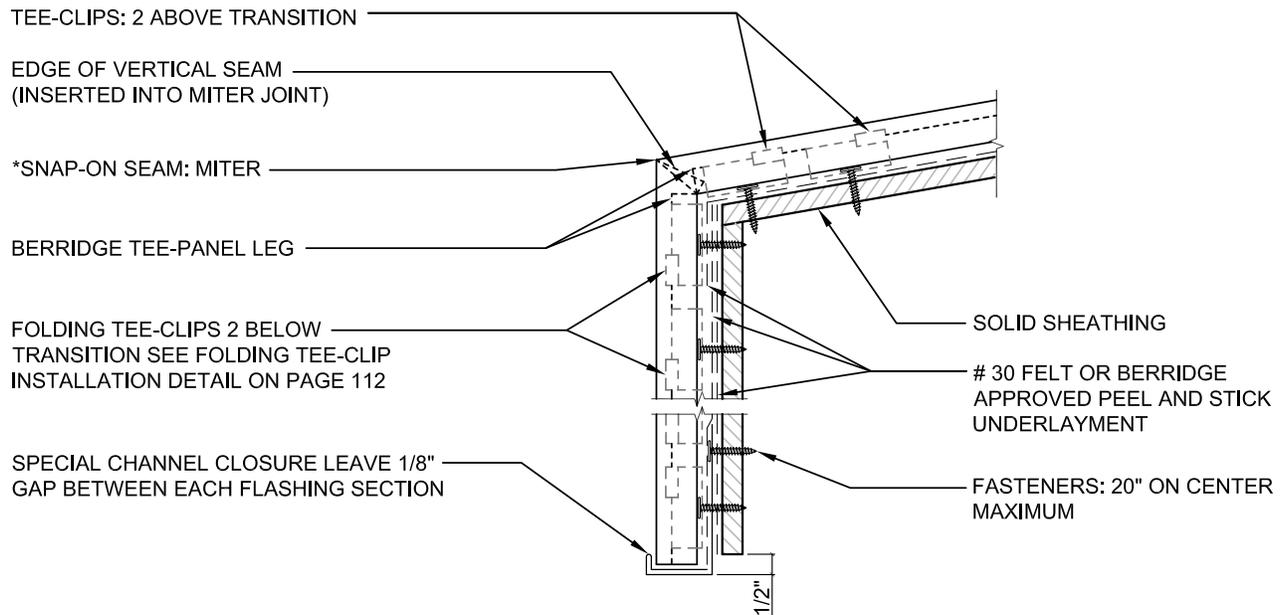
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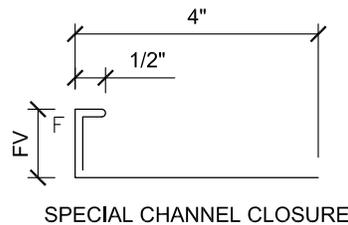
TEE-PANEL & HIGH SEAM TEE-PANEL

SLOPE TRANSITION DETAIL ROOF TO FASCIA



1. FIELD CUT PANEL LEG AND BEND PANEL AS REQUIRED FOR CHANGE IN SLOPE FROM ROOF TO FASCIA.
2. FIELD MITER SNAP-ON SEAM TO SLOPE CHANGE.
3. ONLY ONE SLOPE TRANSITION PER PANEL IS RECOMMENDED.
4. SEE SLOPE TRANSITION ISOMETRIC FOR ROOF TO FASCIA FOR CAULK AND SNAP-ON SEAM MITER DETAIL. (DETAIL T-62 ON BERRIDGE WEBSITE)
5. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
6. REFERENCE BERRIDGE'S WEBSITE: BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

F = FINISH SIDE
FV = FIELD VERIFY



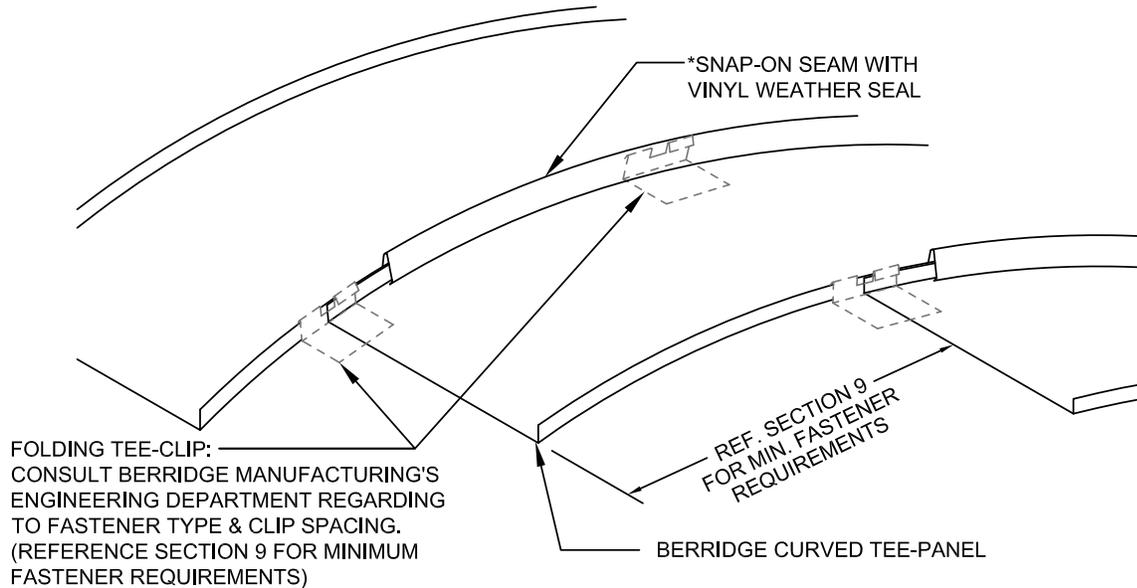
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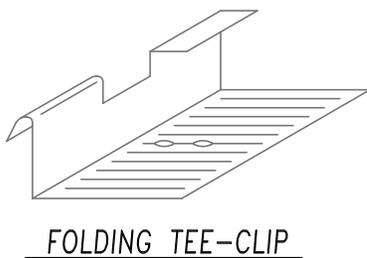
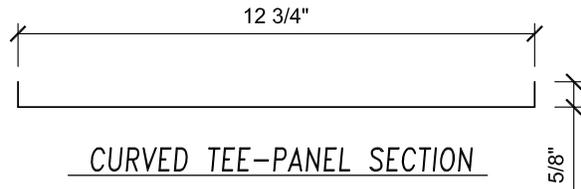
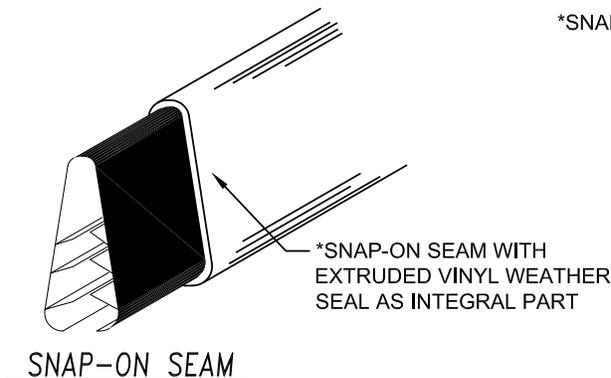
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CURVED TEE-PANEL

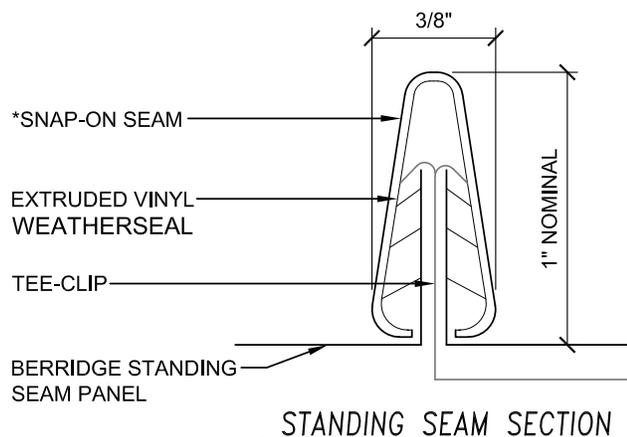
CURVED TEE-PANEL OVERVIEW



*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.



AFTER FOLDING TEE CLIP AND EACH CURVED TEE-PANEL IS INSTALLED, FIELD BEND THE HORIZONTAL TAB OF THE FOLDING TEE-CLIP SO THAT IT IS APPROXIMATELY 3/32" FROM THE CLIP LEG. DO NOT BEND TAB TIGHT AGAINST PANEL LEG AS VINYL INSERT IN SEAM WILL THEN NOT GRIP THE EDGE OF THE TAB.



NOTE:
UNDERLAYMENT REQUIRED FOR CURVED TEE-PANEL, REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

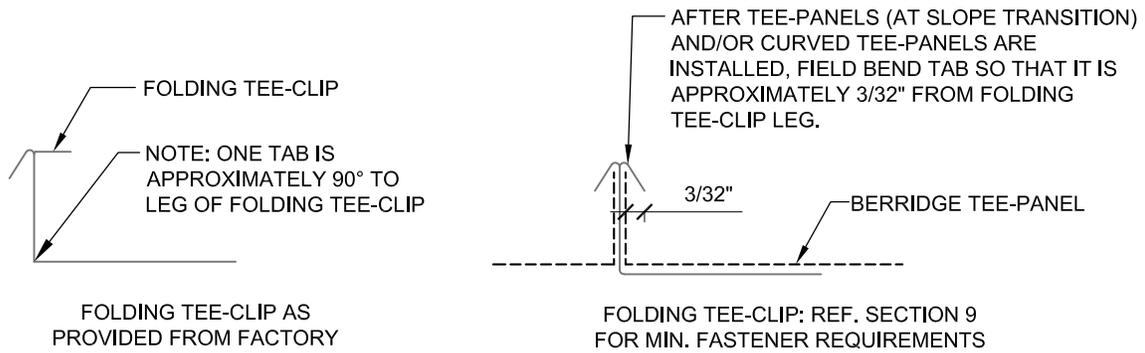
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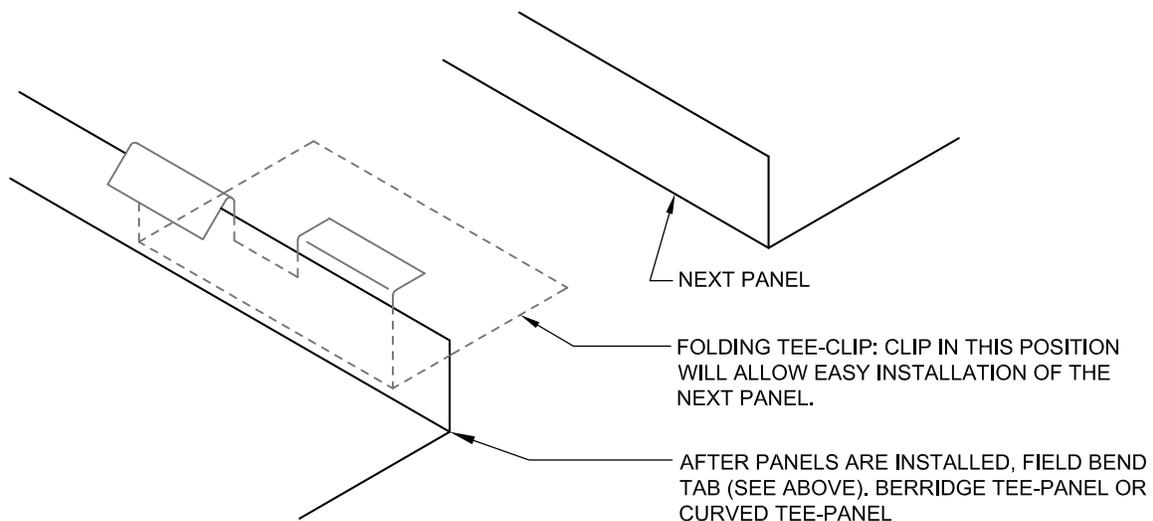
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CURVED TEE-PANEL

FOLDING TEE-CLIP INSTALLATION DETAIL



1. AFTER FOLDING TEE-CLIPS AND TEE-PANELS OR CURVED TEE-PANELS ARE INSTALLED, FIELD BEND FOLDING TEE-CLIP TAB SO THAT IT IS APPROXIMATELY 3/32" FROM CLIP LEG. DO NOT BEND TAB TIGHT AGAINST PANEL LEG AS VINYL INSERT IN SEAM WILL THEN NOT GRIP THE EDGE OF THE TAB.
2. USE FOLDING TEE-CLIP THROUGHOUT CURVED TEE-PANEL SYSTEM
3. USE FOLDING TEE-CLIP AT SLOPE TRANSITION (ROOF TO FASCIA) FOR STANDARD TEE-PANEL. USE STANDARD TEE-CLIP THROUGHOUT REST OF STANDARD TEE PANEL SYSTEM.



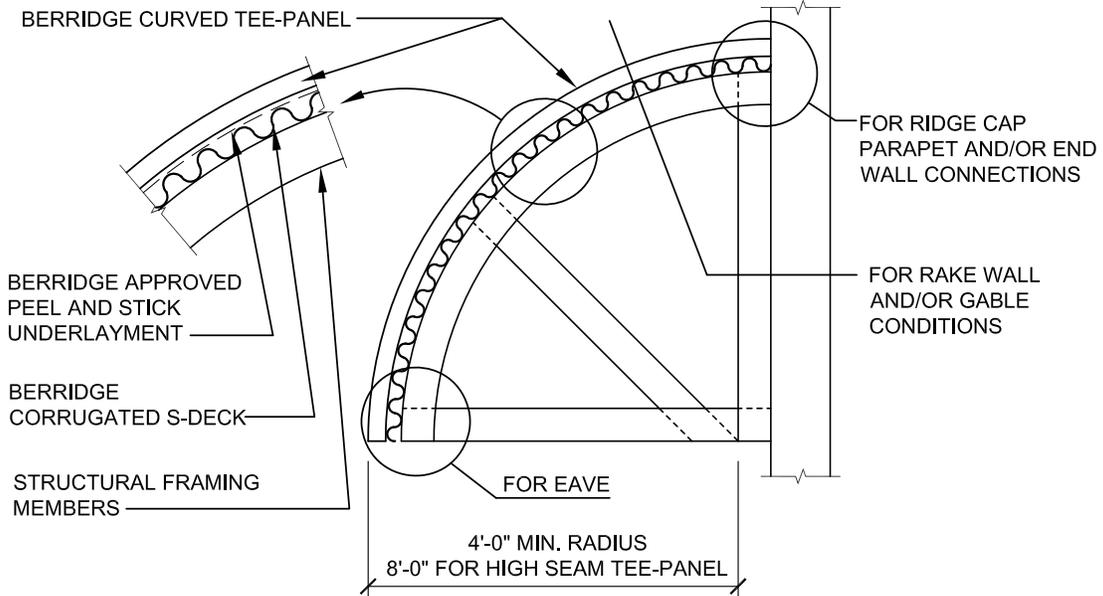
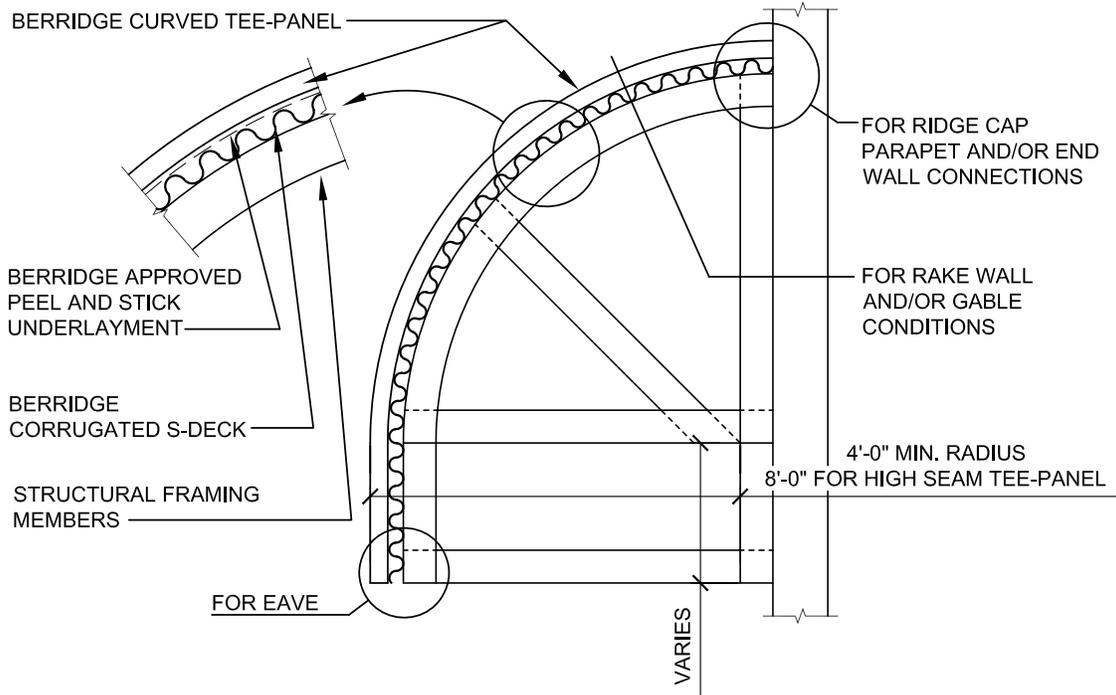
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CURVED TEE-PANEL

CONVEX CANOPY SECTION DETAILS



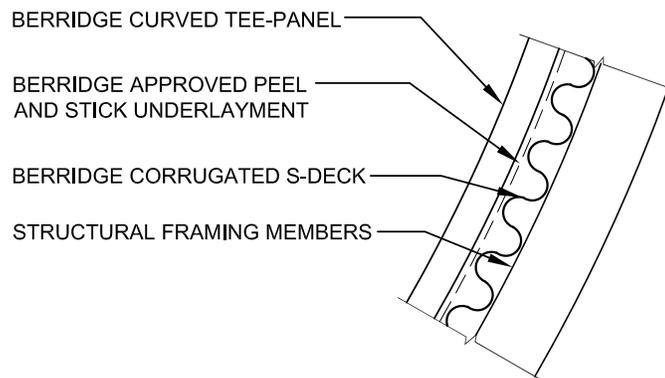
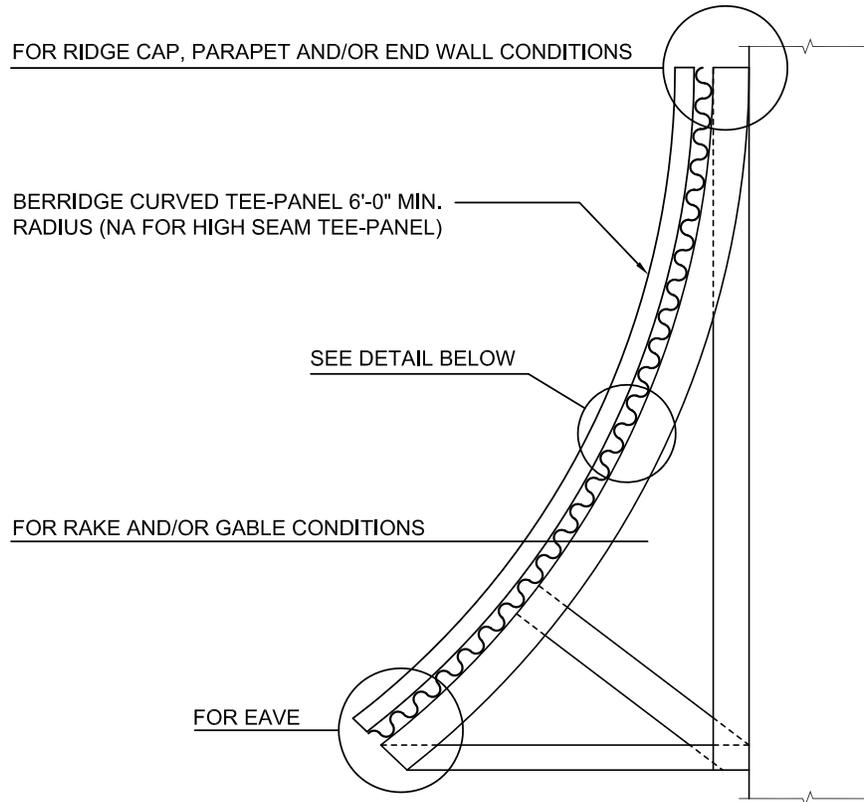
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CURVED TEE-PANEL

CONCAVE CANOPY SECTION DETAILS



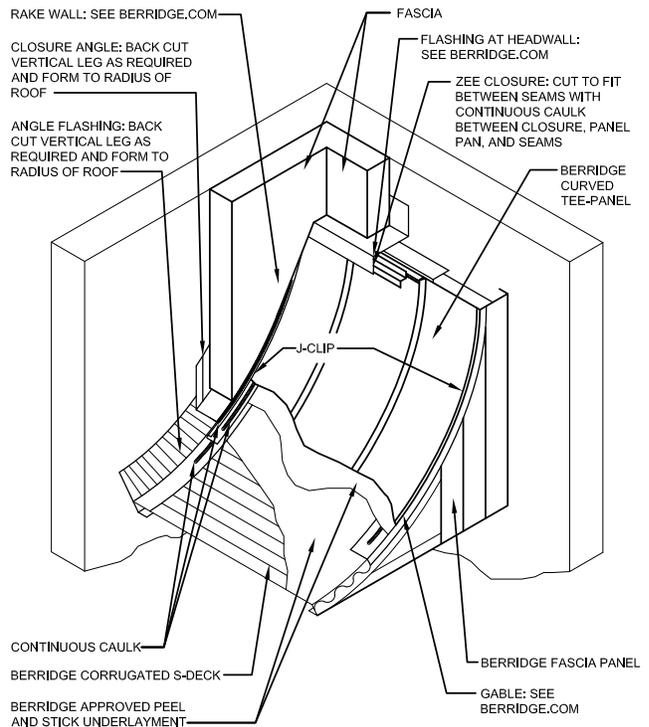
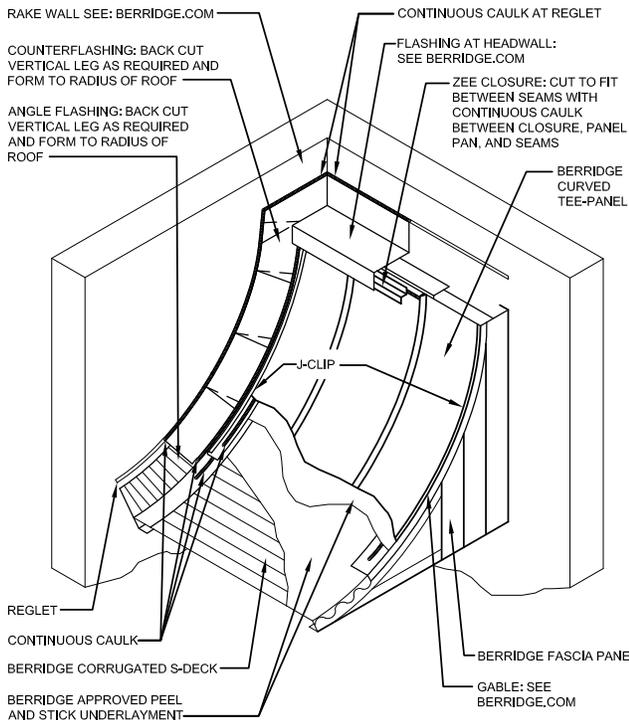
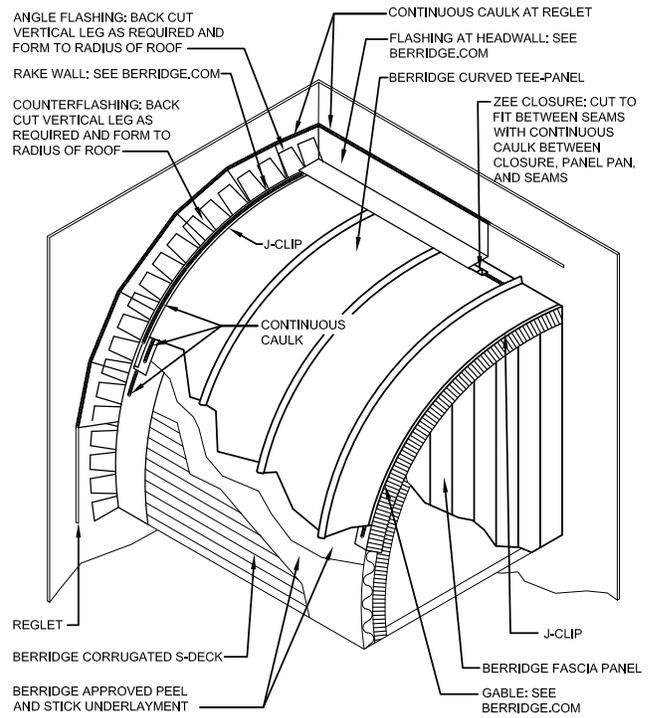
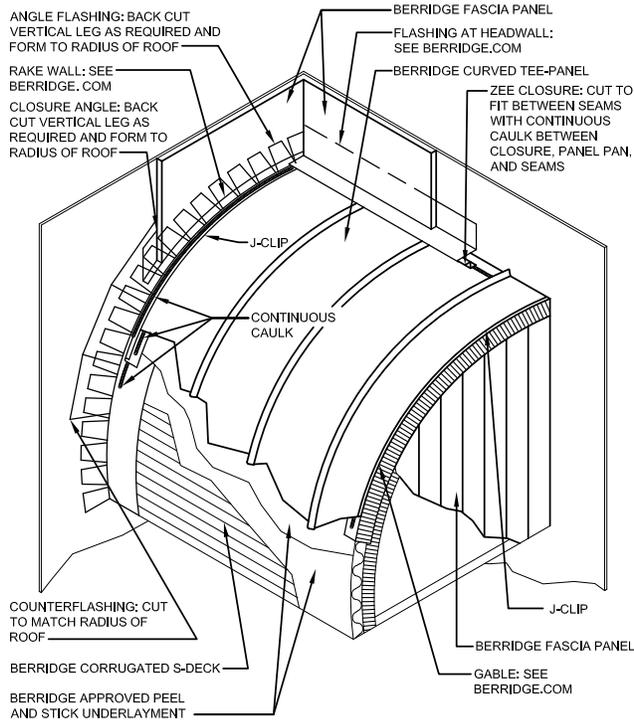
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CURVED TEE-PANEL

CONVEX & CONCAVE CANOPY ISOMETRIC DETAILS



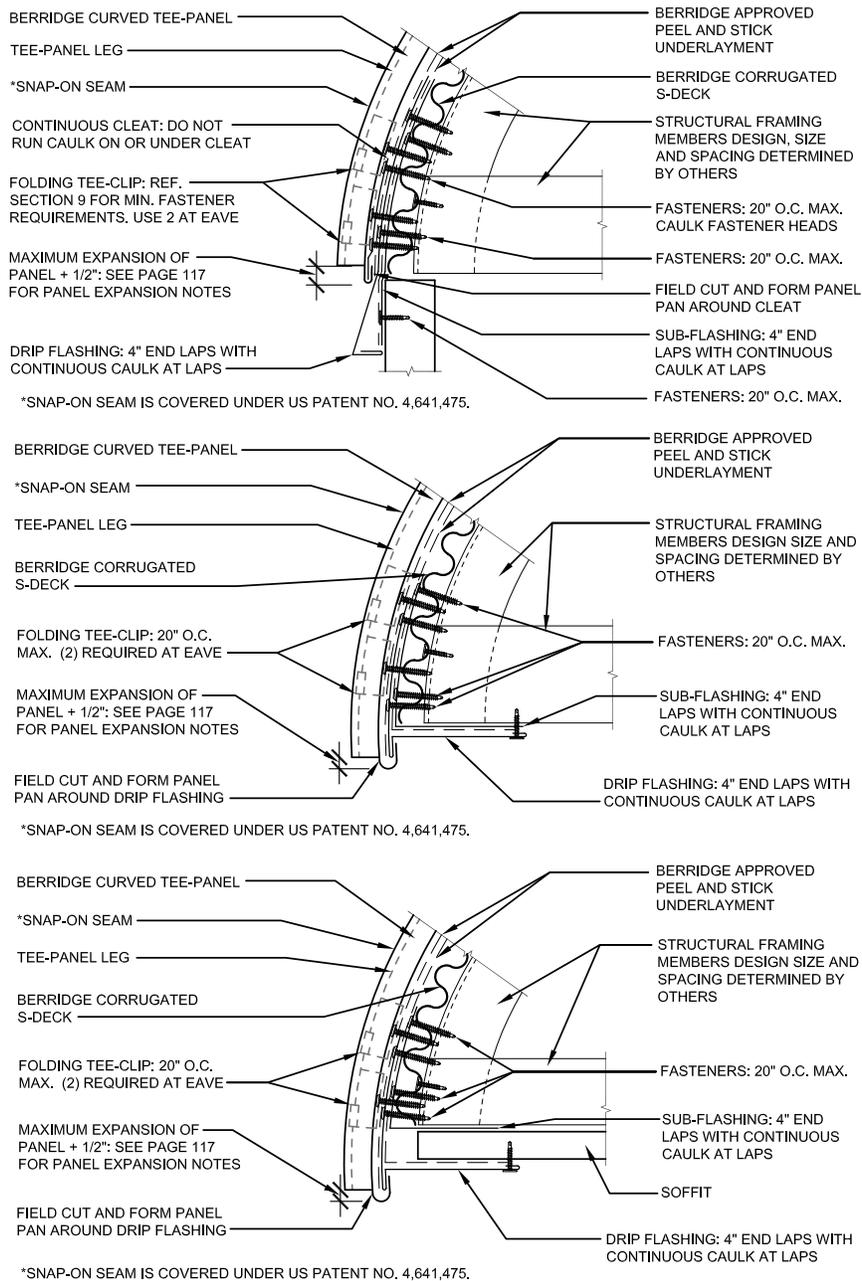
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CURVED TEE-PANEL

CONVEX EAVE SECTION DETAILS



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS
2. BERRIDGE 16 GA 1-1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.
3. THE DESIGN, SIZING AND SPACING OF FRAMING MEMBER TO BE DETERMINED BY OTHERS.
4. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

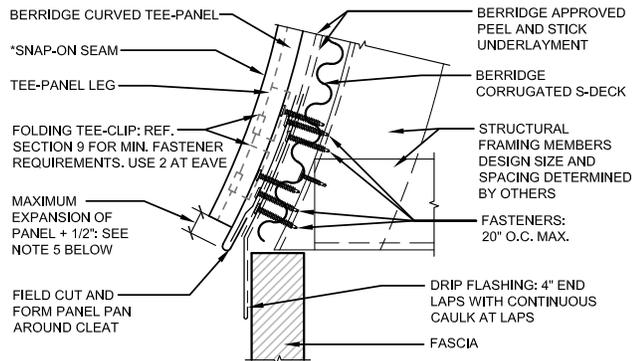
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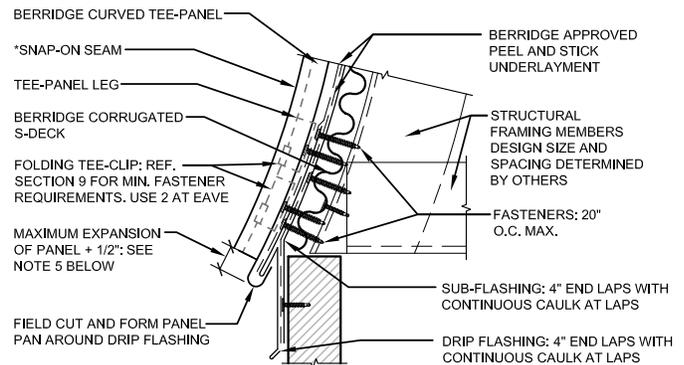
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CURVED TEE-PANEL

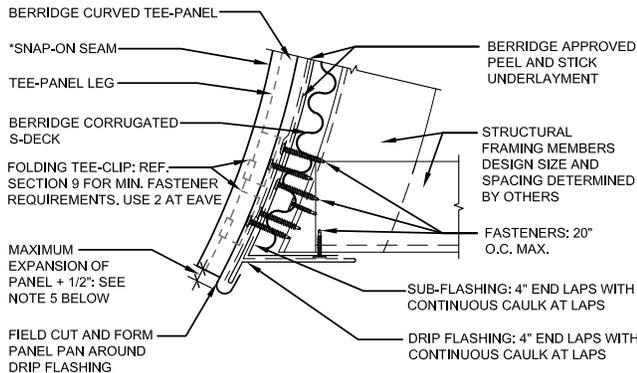
CONCAVE EAVE SECTION DETAILS



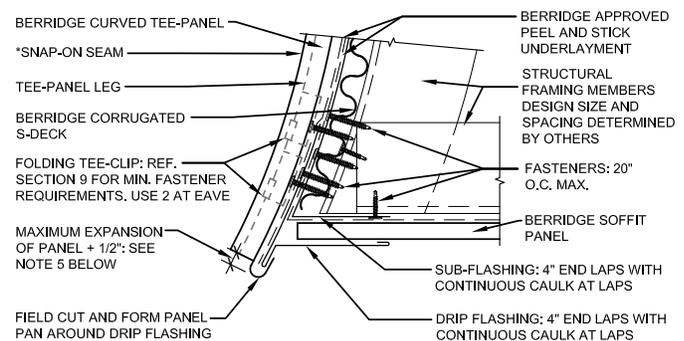
*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.



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1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS
2. BERRIDGE 16 GA 1-1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.
3. THE DESIGN, SIZING AND SPACING OF FRAMING MEMBER TO BE DETERMINED BY OTHERS.
4. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
5. THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH, REFER TO NOMINAL LINEAR EXPANSION CHART FOR EXPANSION PANEL GUIDANCE.
6. THE GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION

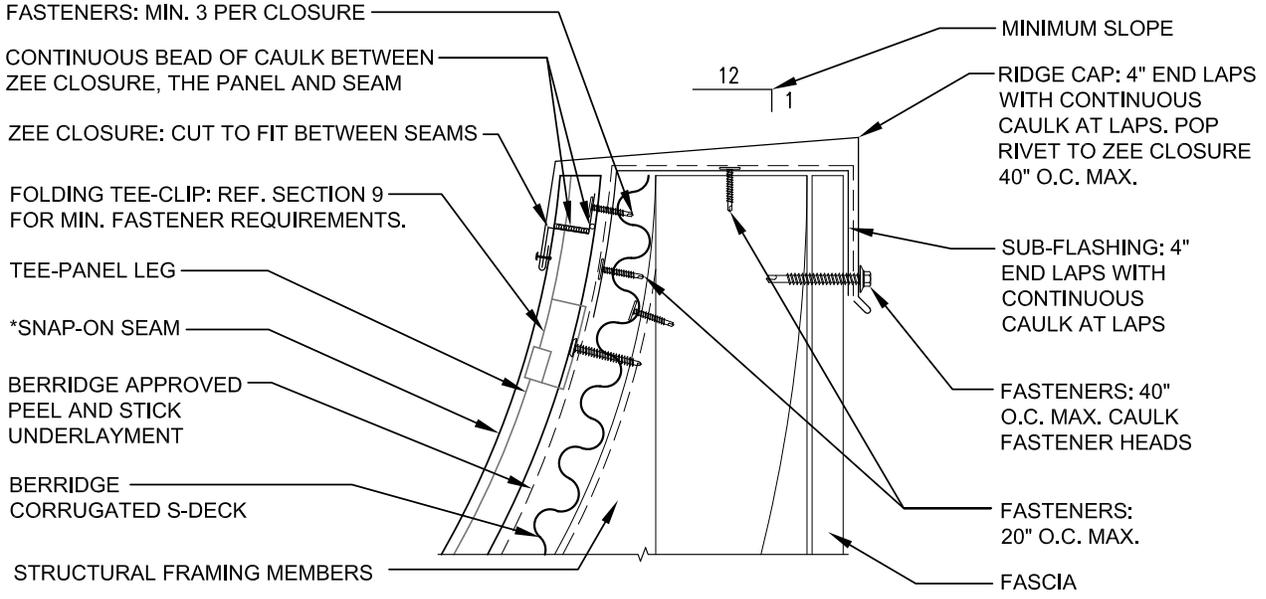
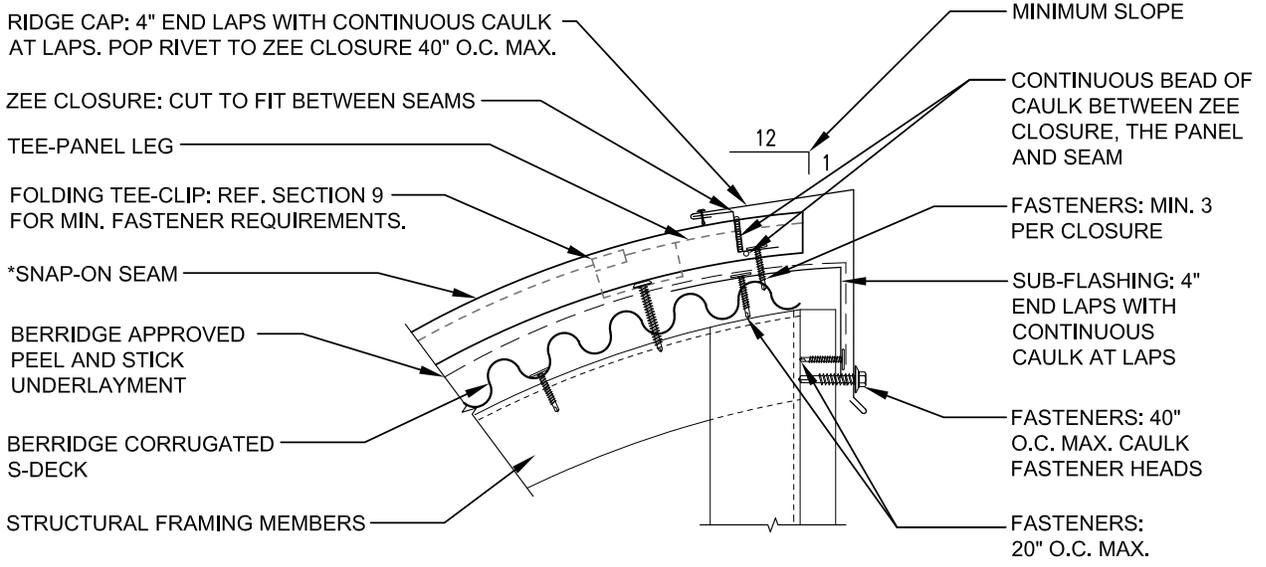
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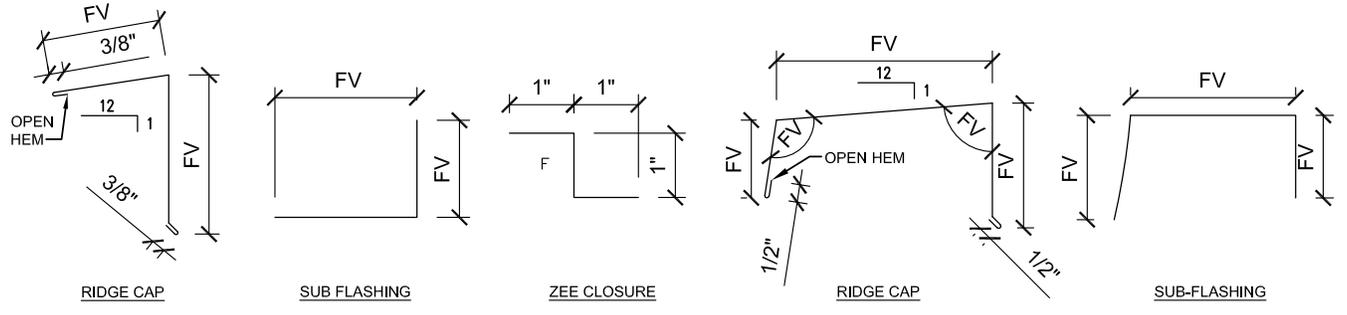
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CURVED TEE-PANEL

RIDGE CAP DETAILS - CONVEX & CONCAVE



*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.



BERRIDGE MANUFACTURING COMPANY

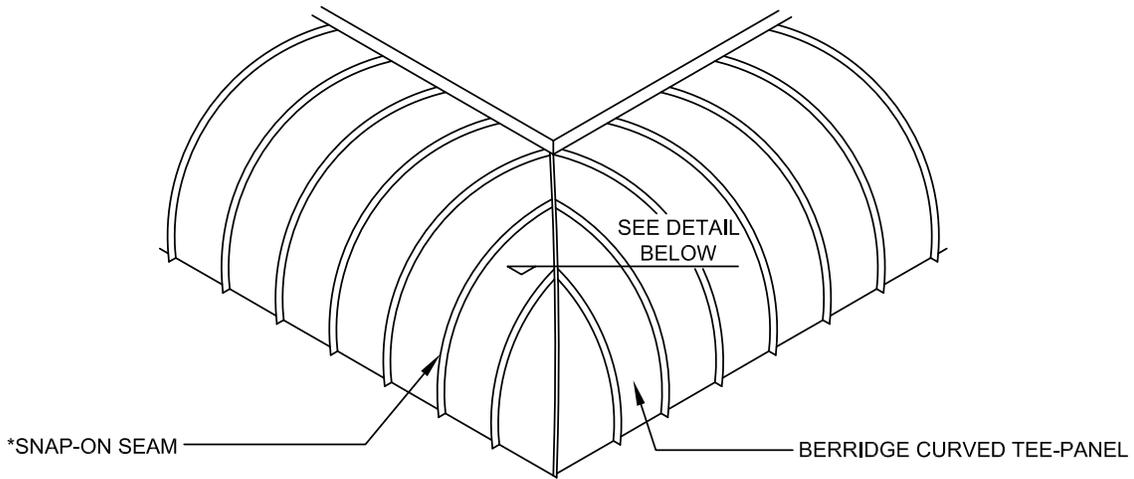
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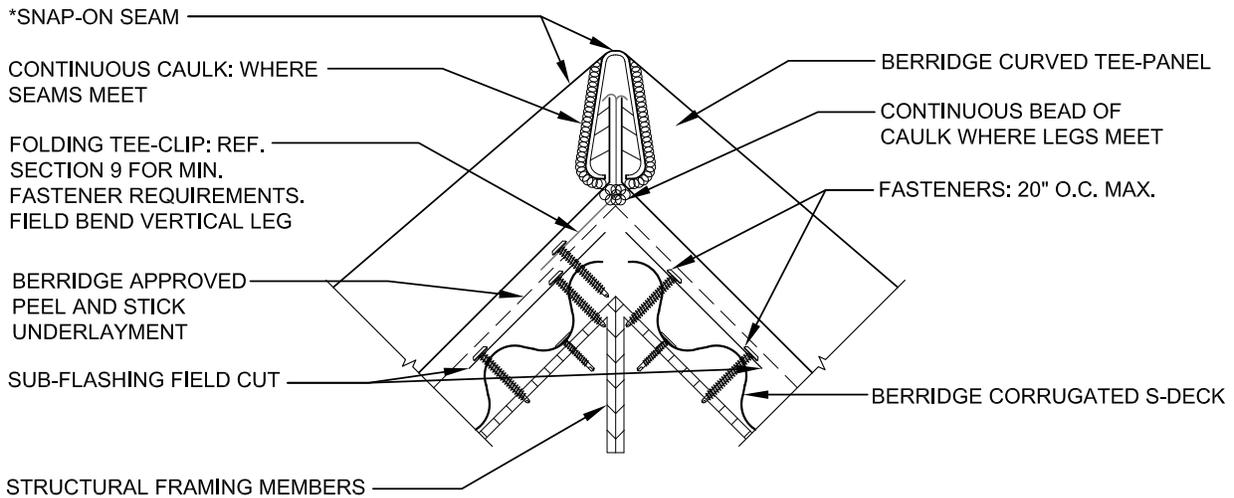
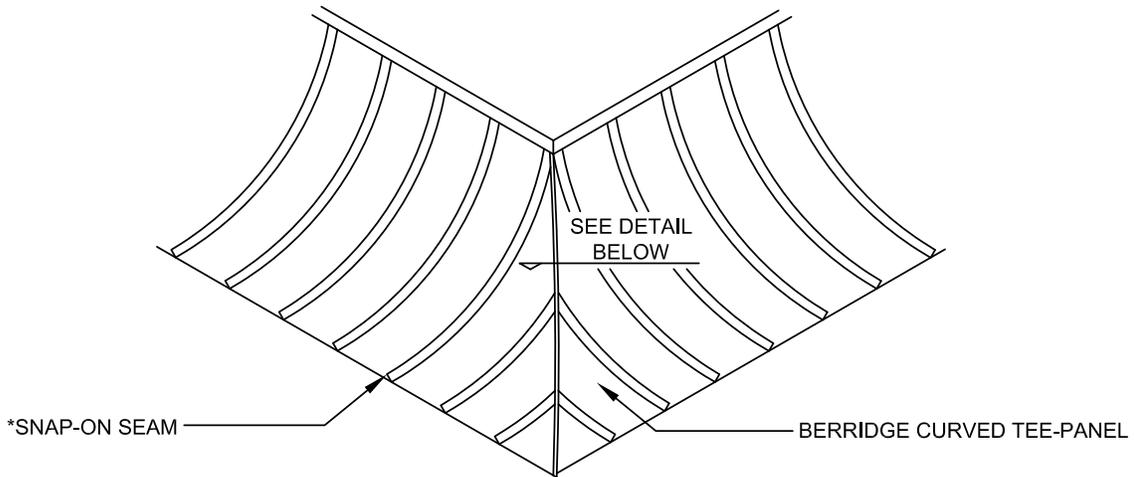
Standing Seam

CURVED TEE-PANEL

CONVEX & CONCAVE HIP DETAIL



*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.



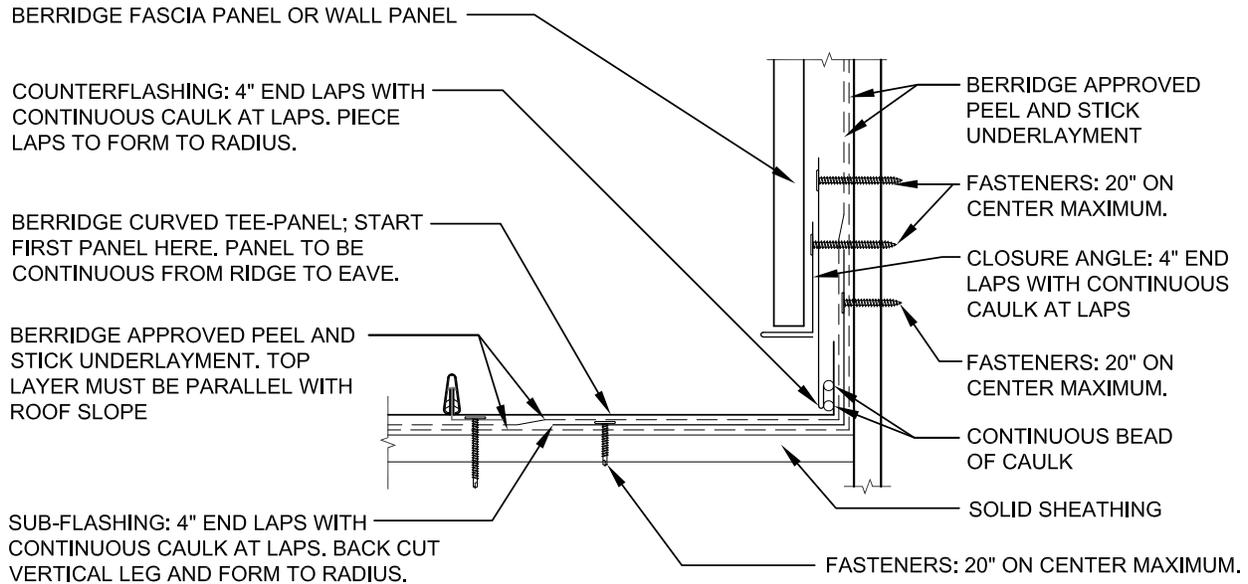
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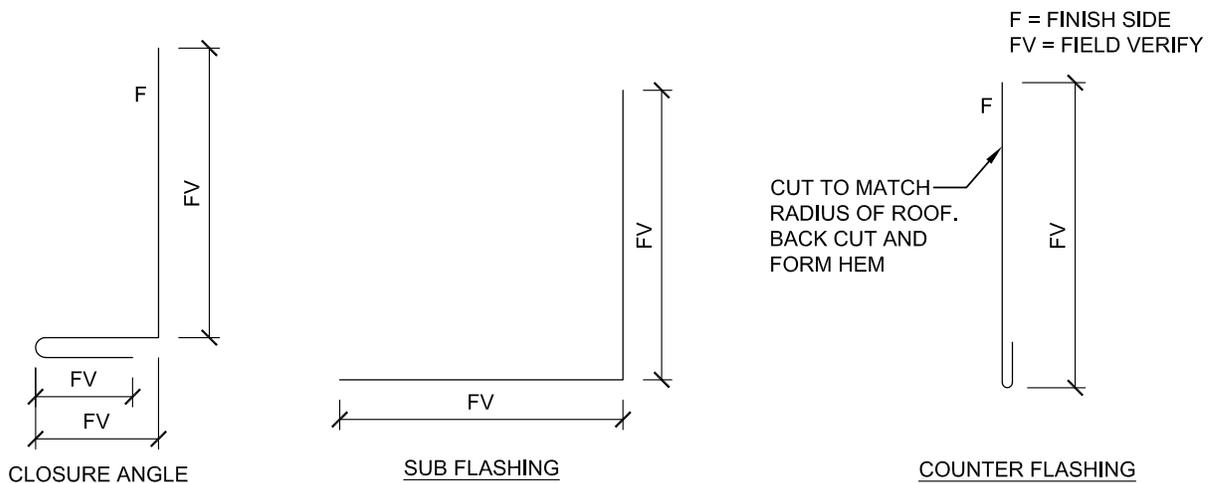
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CURVED TEE-PANEL

CONVEX RAKE WALL DETAILS



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



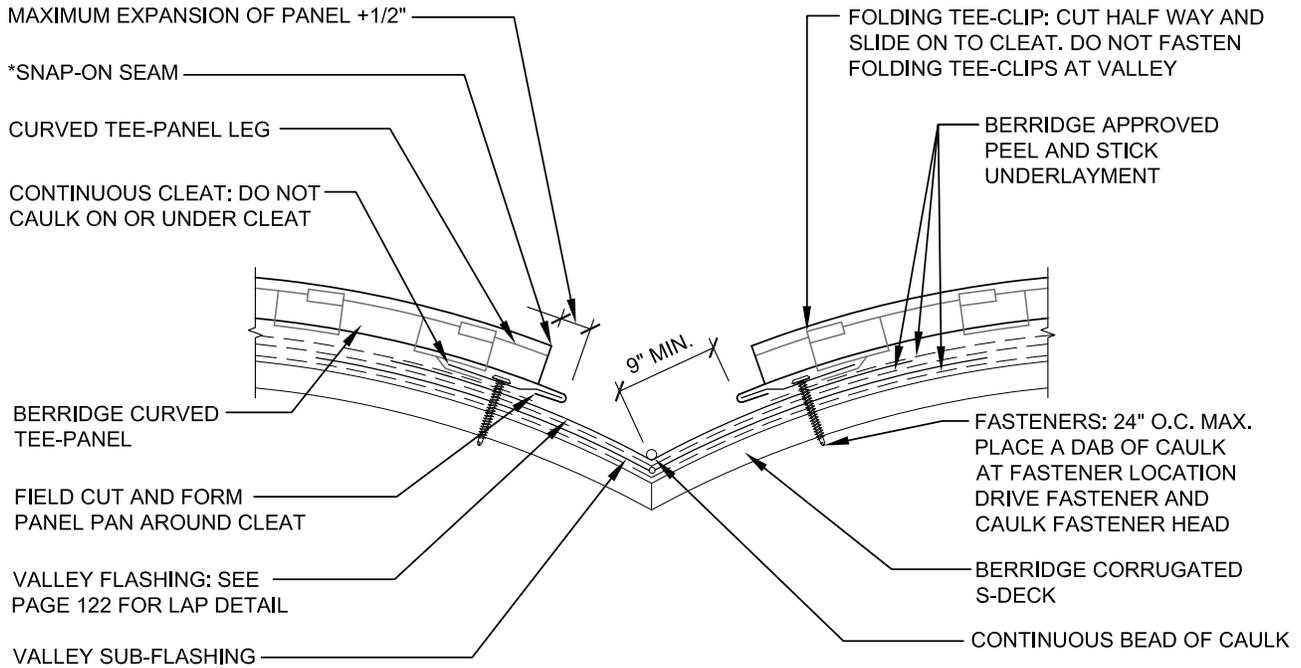
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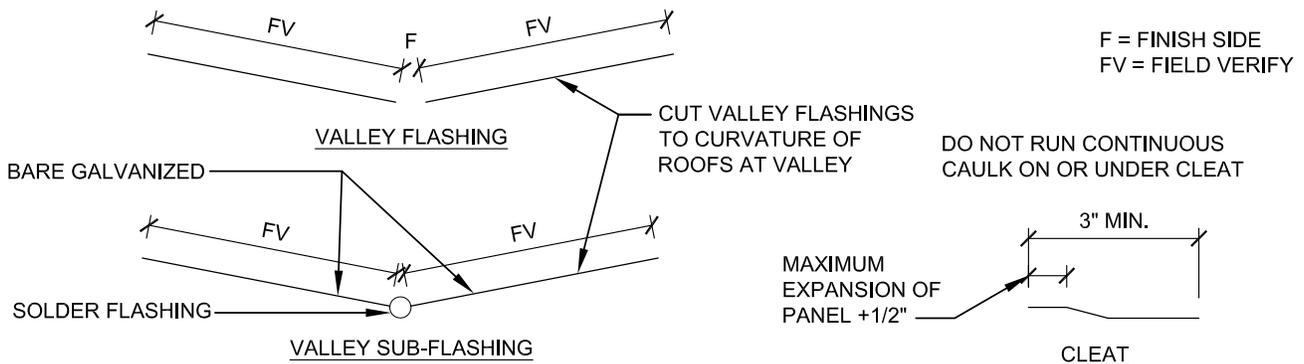
CURVED TEE-PANEL

CONVEX VALLEY FLASHING DETAILS



*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

1. THE "GAP" BETWEEN CLEAT AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PANEL PAN MUST BE ENGAGED WITH CLEAT WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. SEE PAGE 117 FOR EXPANSION NOTES.
2. GAP BETWEEN CLEAT AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.
3. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS
4. BERRIDGE 16 GA. 1 1/2" x 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GA. FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.
5. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



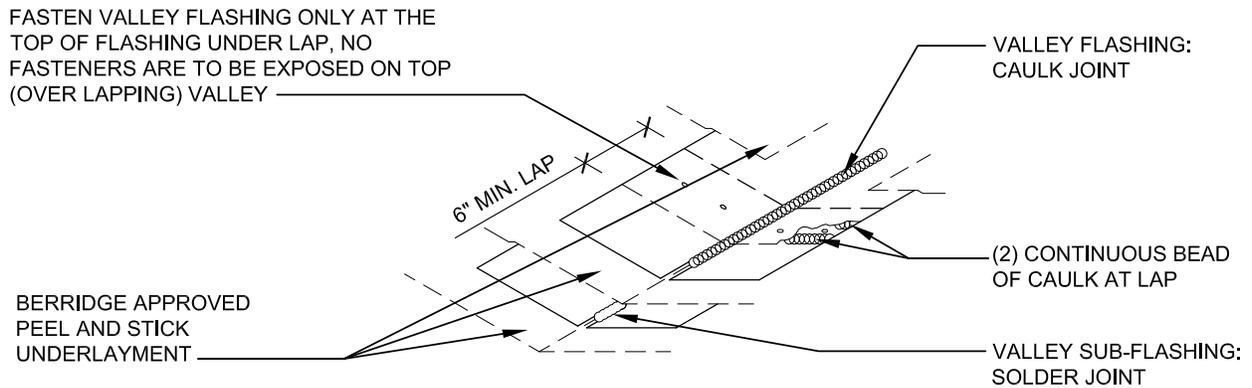
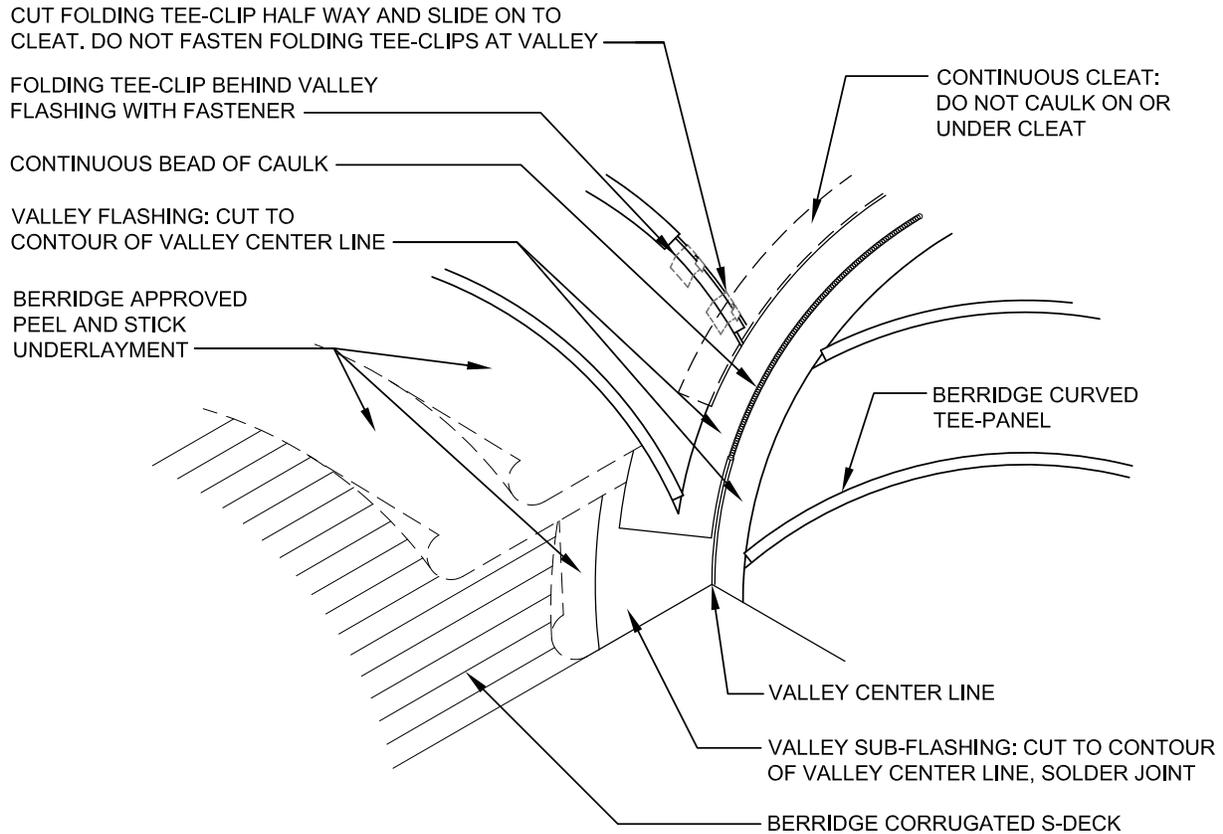
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CURVED TEE-PANEL

CONVEX VALLEY FLASHING DETAILS - ISOMETRIC



NOTE: DO NOT LAP VALLEY FLASHING AND VALLEY SUB-FLASHING AT SAME LOCATION

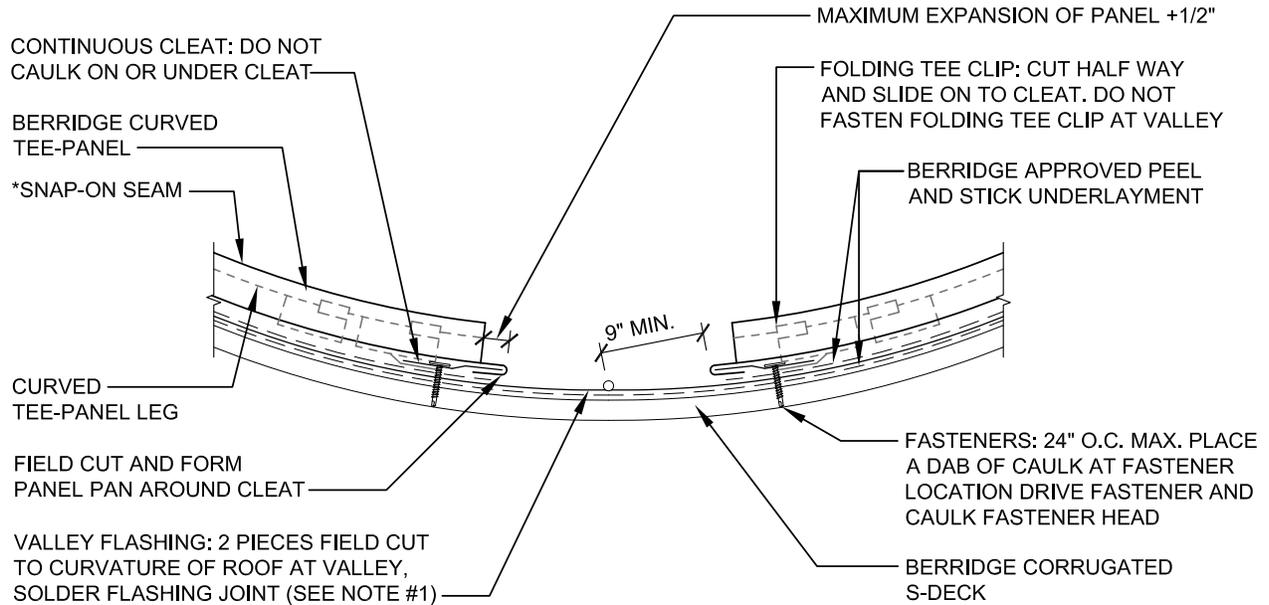
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CURVED TEE-PANEL

VALLEY FLASHING - CONVEX & CONCAVE

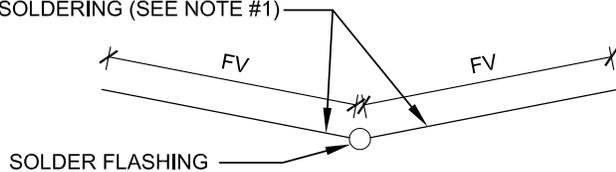


*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

1. VALLEY FLASHING TO BE 24 GAUGE BARE HOT DIPPED GALVANIZED FLAT SHEET METAL. FIELD PAINT PER THE FOLLOWING INSTRUCTION. STEP 1: CLEAN ALL OIL, GREASE AND HAND PRINTS OFF OF SURFACES TO BE PAINTED WITH SOLVENTS. STEP 2: PRIME COAT, .2 MIL OF ZINC CHROMATE PRIMER (YELLOW), STEP 3: TOP COAT, .8 MIL AIR DRY KYNAR 500 TO MATCH CURVED TEE-PANEL FINISH.
2. THE "GAP" BETWEEN CLEAT AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PANEL PAN MUST BE ENGAGED WITH CLEAT WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. SEE PAGE 117 FOR EXPANSION NOTES.
3. GAP BETWEEN CLEAT AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.
4. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER OF FASTENERS
5. BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.
6. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

Standing Seam

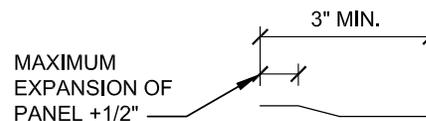
BARE GALVANIZED: FIELD PAINT AFTER INSTALLATION AND SOLDERING (SEE NOTE #1)



VALLEY FLASHING

DO NOT RUN CONTINUOUS CAULK ON OR UNDER CLEAT

F = FINISH SIDE
FV = FIELD VERIFY



CLEAT

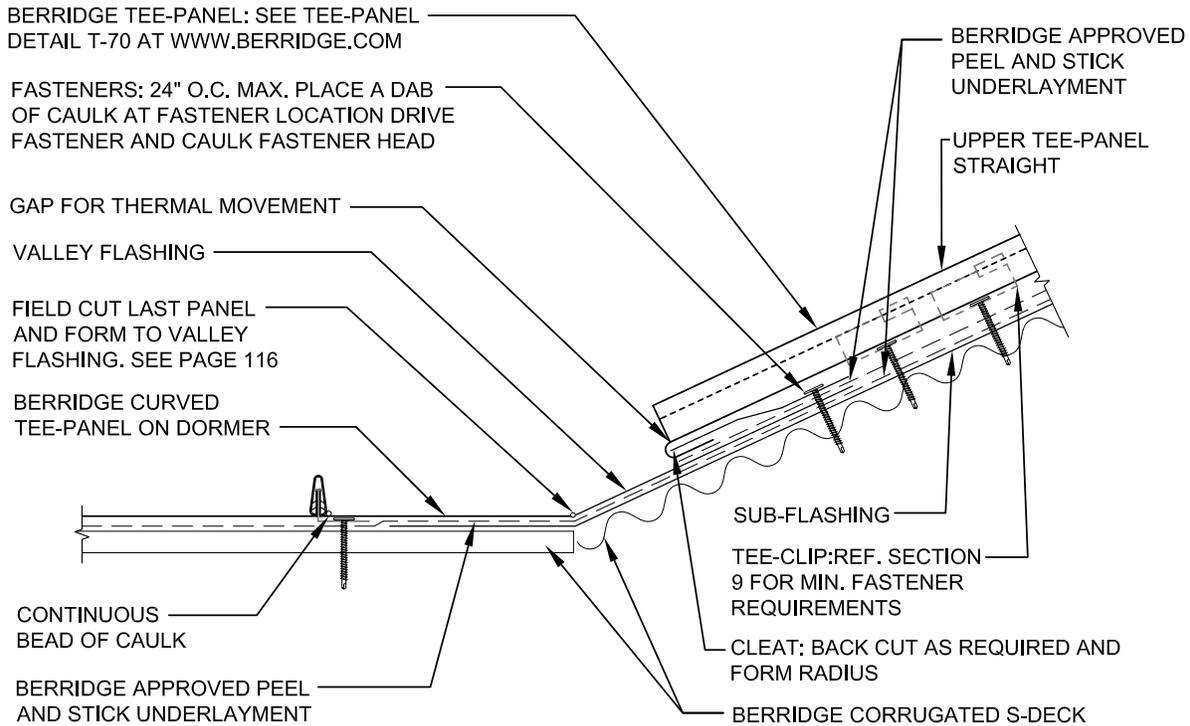
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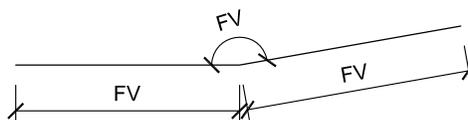
CURVED TEE-PANEL

VAULTED DORMER VALLEY DETAIL



1. SHEATHING TO BE MINIMUM 24 GA. CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MIN. THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

F = FINISH SIDE
FV = FIELD VERIFY



SUB-FLASHING

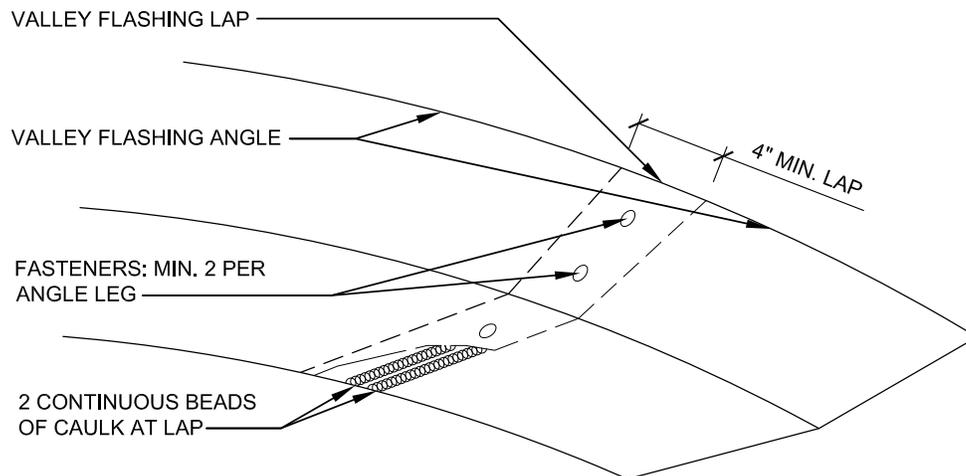
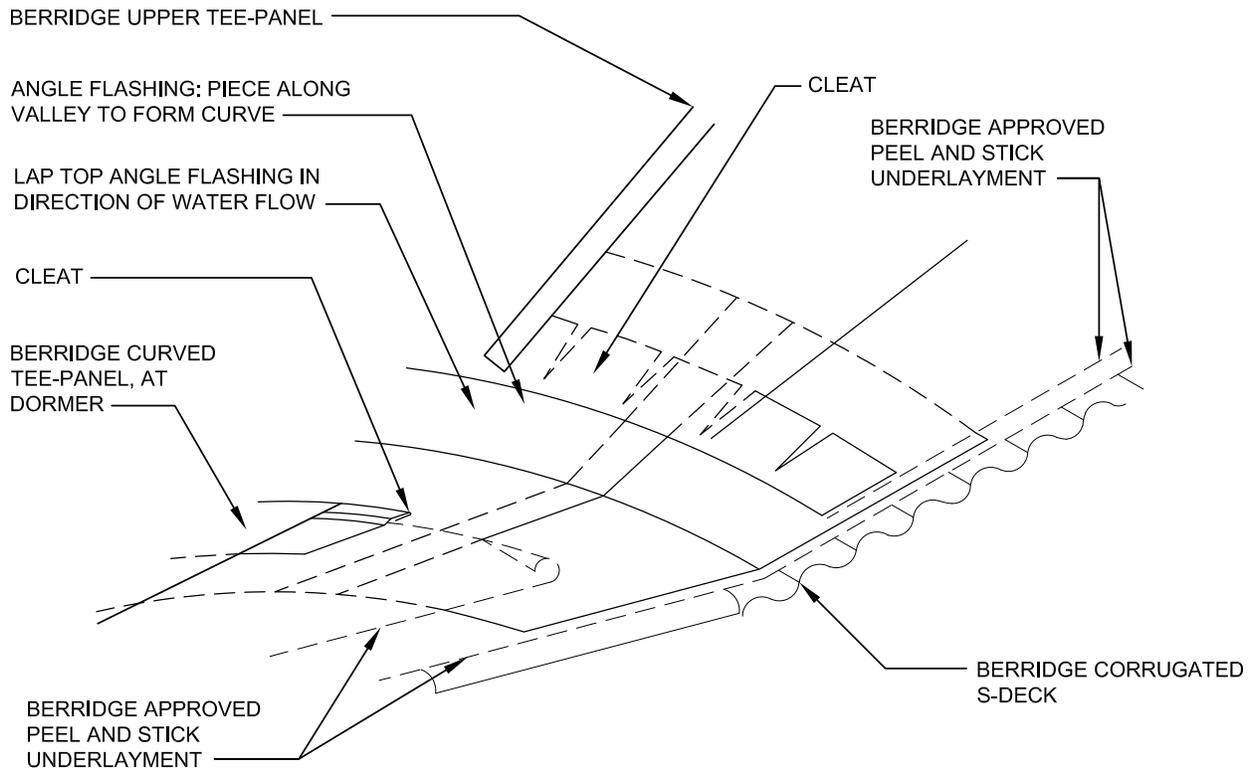
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CURVED TEE-PANEL

VAULTED DORMER VALLEY DETAIL - ISOMETRIC



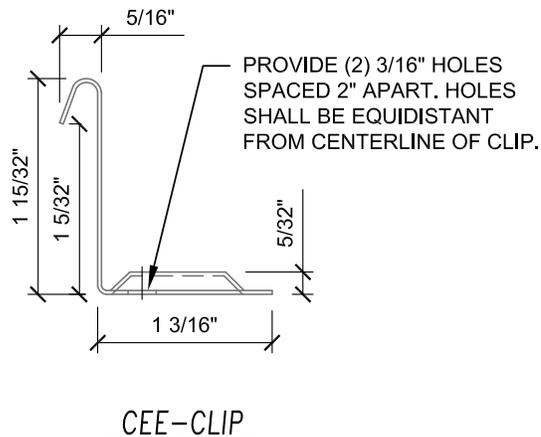
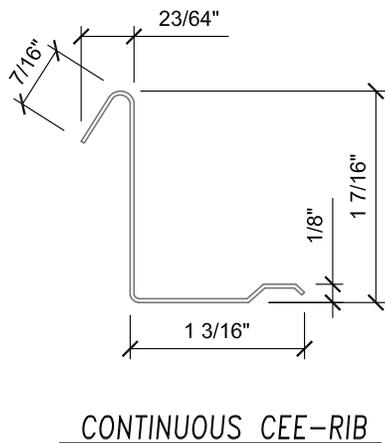
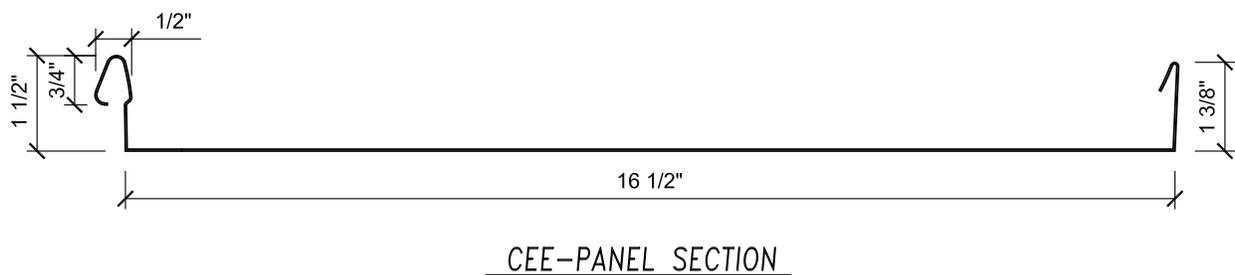
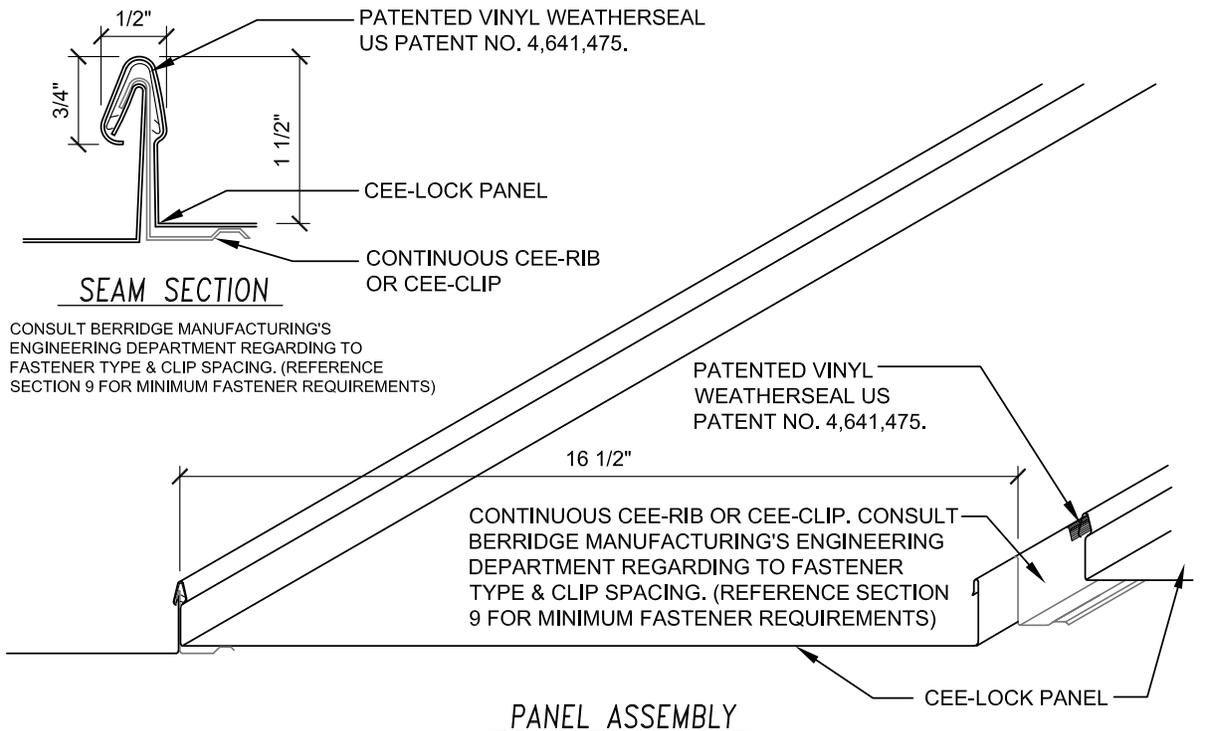
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CEE-LOCK PANEL

CEE-LOCK PANEL OVERVIEW



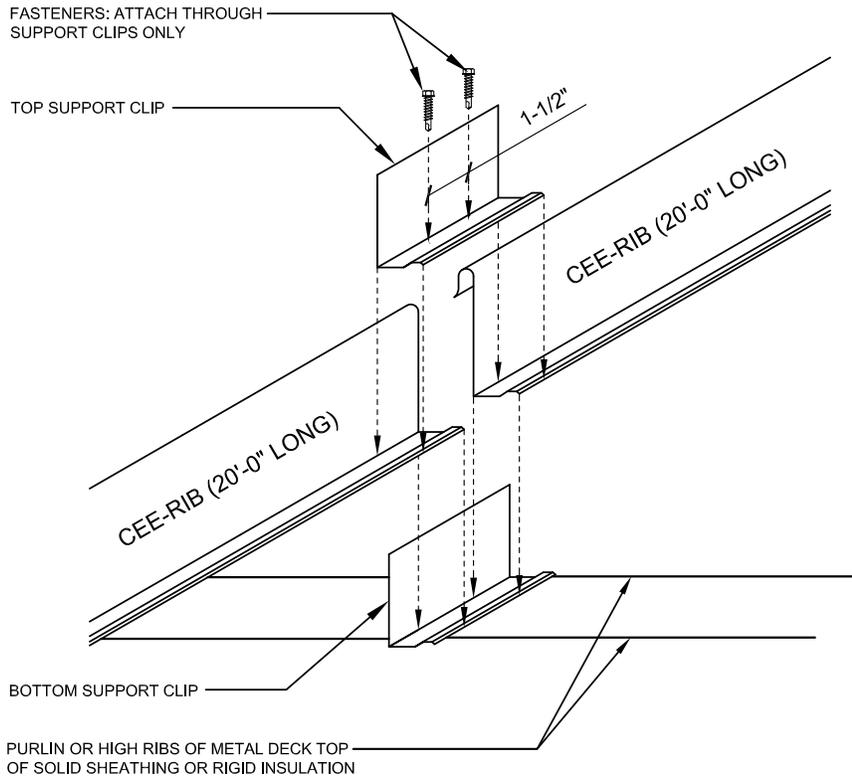
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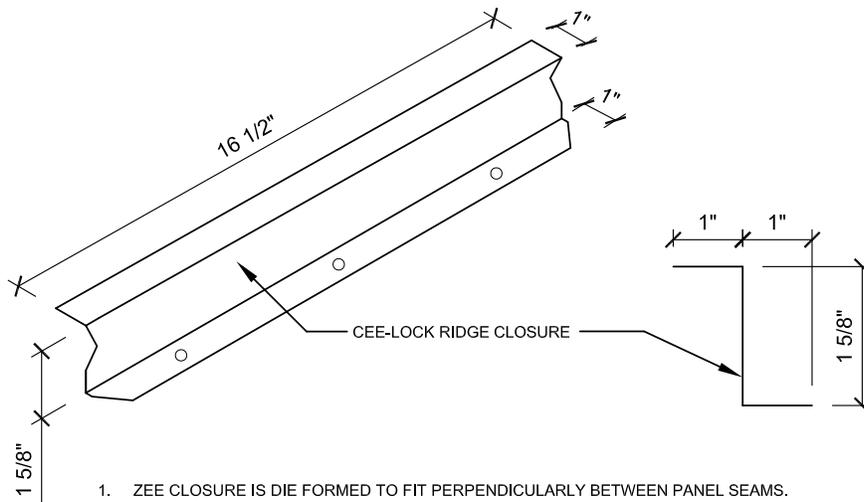
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CEE-LOCK PANEL

CEE-RIB EXPANSION JOINT DETAIL



CEE-LOCK RIDGE CLOSURE DETAIL



Note:
See Page 86 for general Zee-Closure Detail

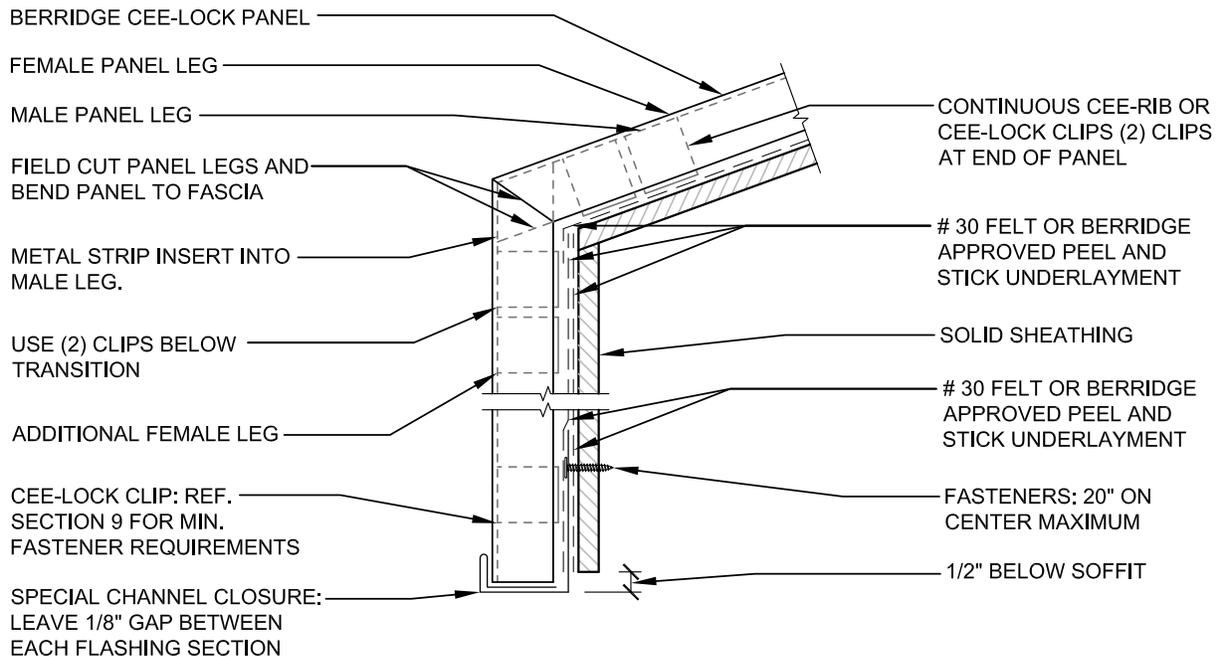
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CEE-LOCK PANEL

SLOPE TRANSITION DETAIL ROOF TO FASCIA



SEE BERRIDGE WEB SITE DETAILS CL-63 AND CL-64 FOR ADDITIONAL INFORMATION

1. FIELD CUT LEGS AND BEND PANEL AS REQUIRED FOR CHANGE IN SLOPE FROM ROOF TO FASCIA.
2. ONLY ONE SLOPE TRANSITION PER PANEL IS RECOMMENDED.
3. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
4. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

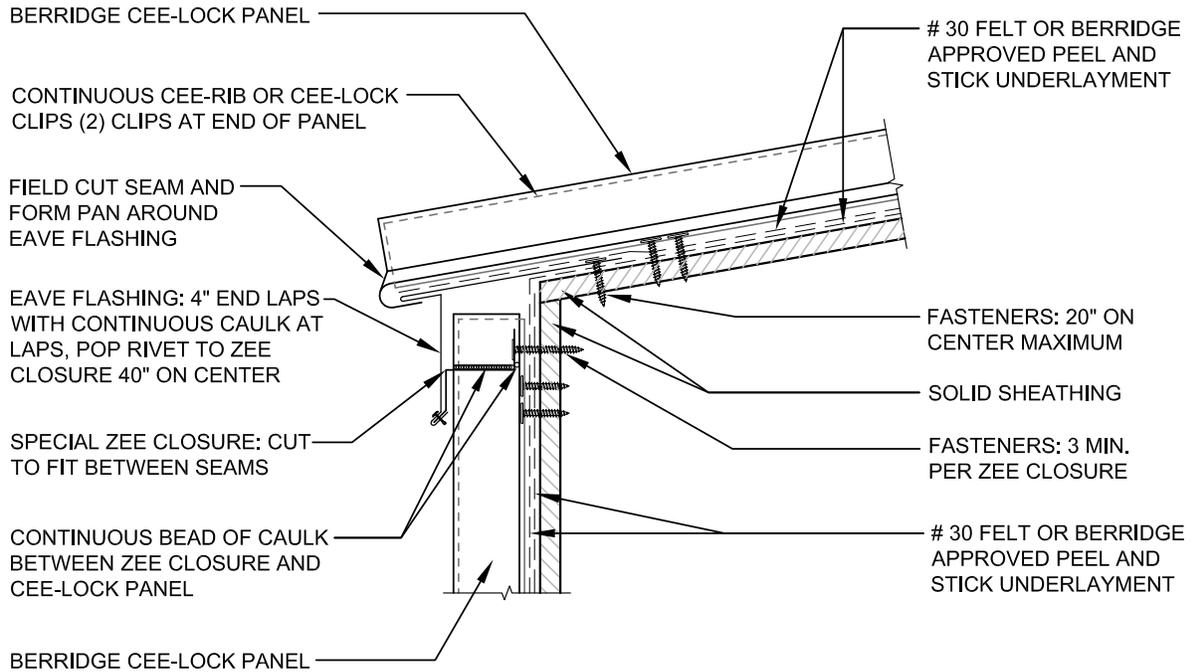
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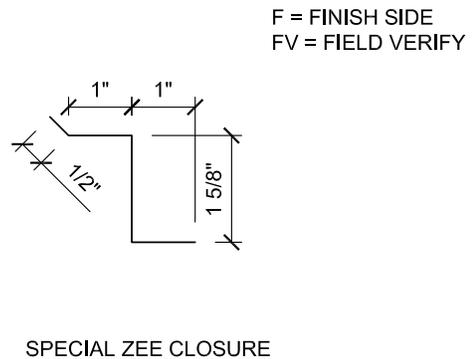
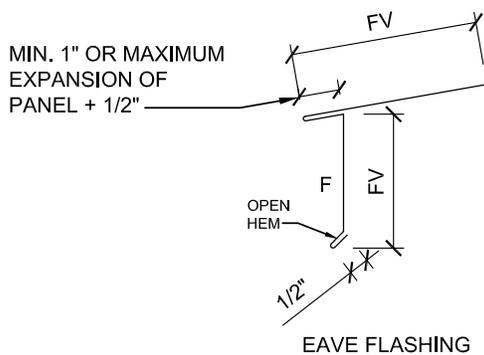
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CEE-LOCK PANEL

SLOPE TRANSITION DETAIL ROOF TO FASCIA COUNTER FLASHING



1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS OF WALL PANELS.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



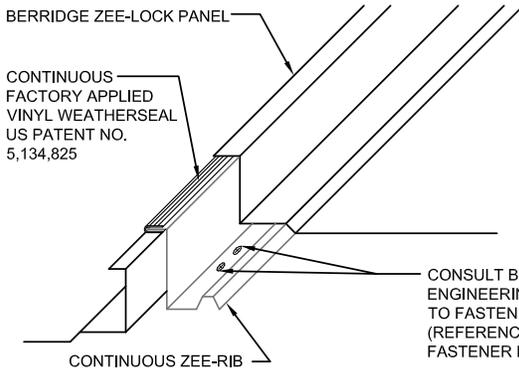
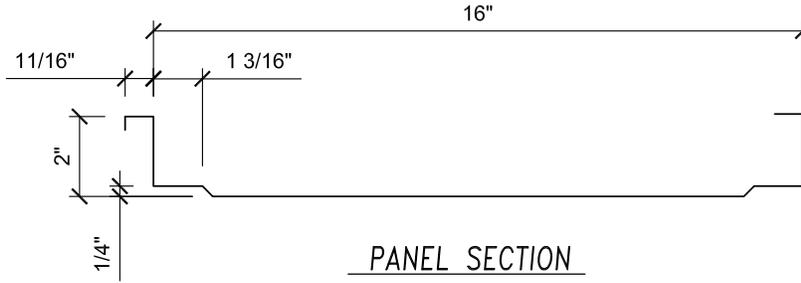
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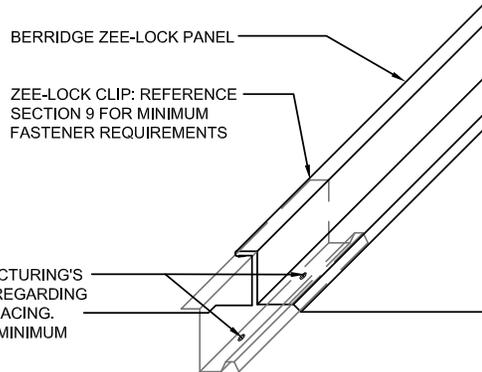
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ZEE-LOCK PANEL

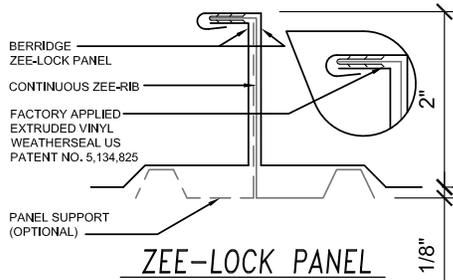
ZEE-LOCK PANEL OVERVIEW WITH CONTINUOUS RIB



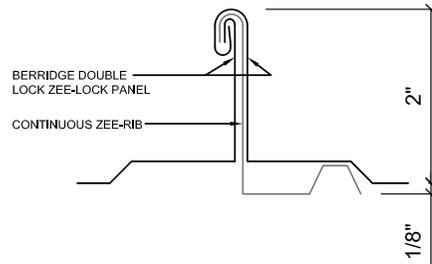
ZEE-LOCK WITH CONTINUOUS ZEE-RIB



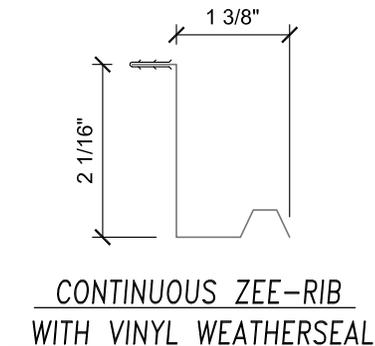
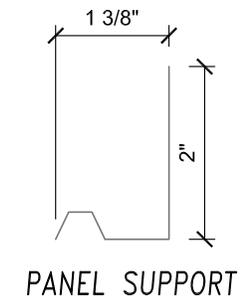
ZEE-LOCK WITH INDIVIDUAL ZEE-CLIPS



ZEE-LOCK PANEL
CURVED ZEE-LOCK PANEL MIN. RADIUS 20'-0" VINYL WEATHERSEAL REQUIRED



DOUBLE LOCK ZEE-LOCK SEAM SECTION



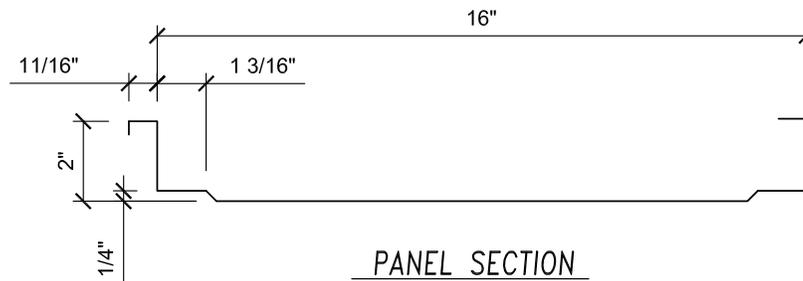
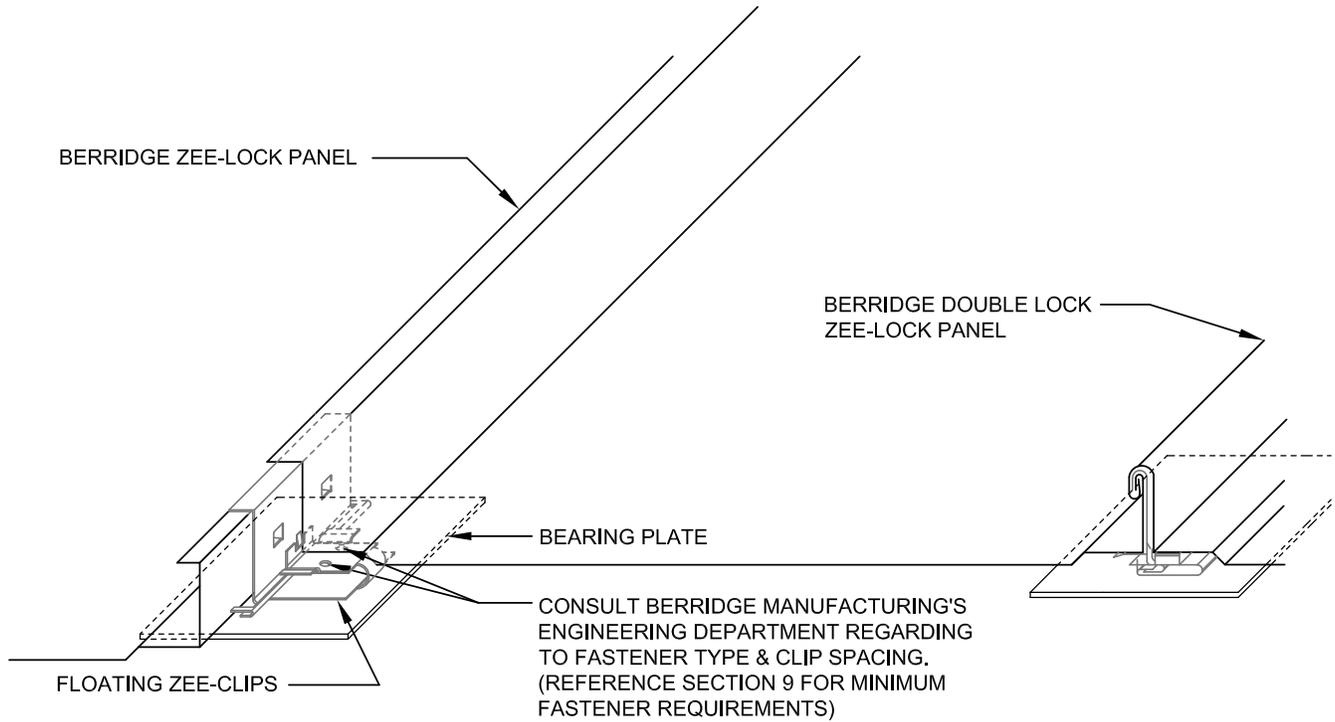
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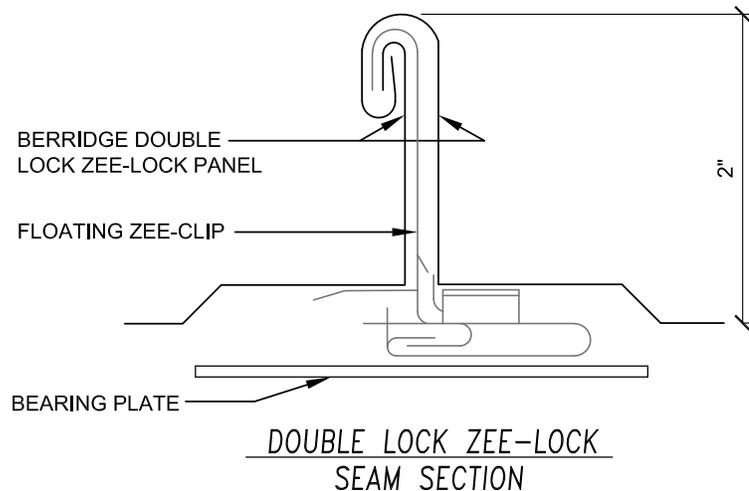
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DOUBLE-LOCK ZEE-LOCK PANEL

DOUBLE-LOCK ZEE-LOCK PANEL OVERVIEW WITH FLOATING CLIP



NOTE: THIS PANEL DOES NOT USE VINYL WEATHERSEAL



Standing Seam

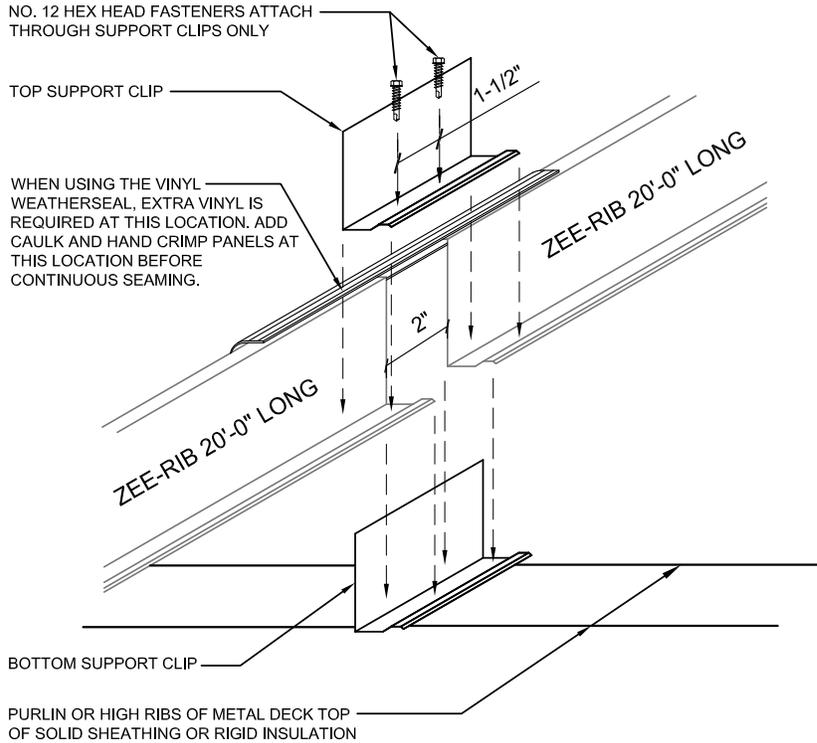
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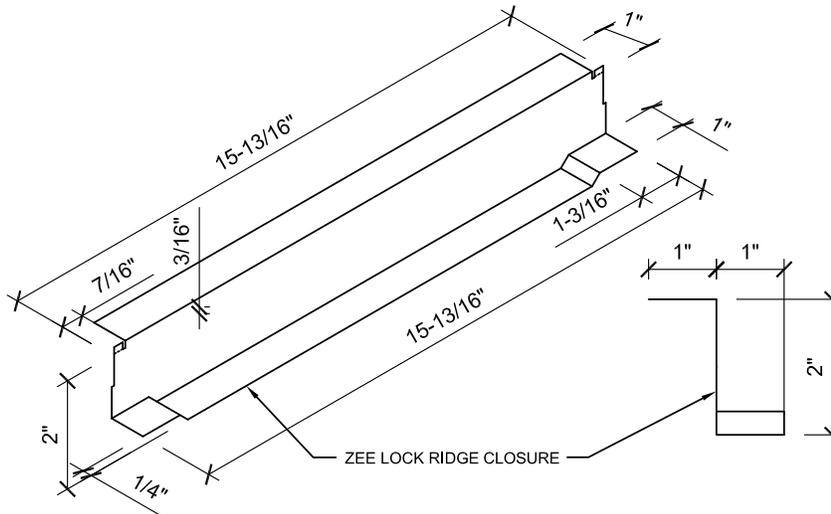
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ZEE-LOCK PANELS

EXPANSION JOINT DETAIL



ZEE-LOCK RIDGE CLOSURE DETAIL



1. ZEE CLOSURE IS DIE FORMED TO FIT PERPENDICULARLY BETWEEN PANEL SEAMS.

Note:

See Page 86 for general Zee-Closure Detail

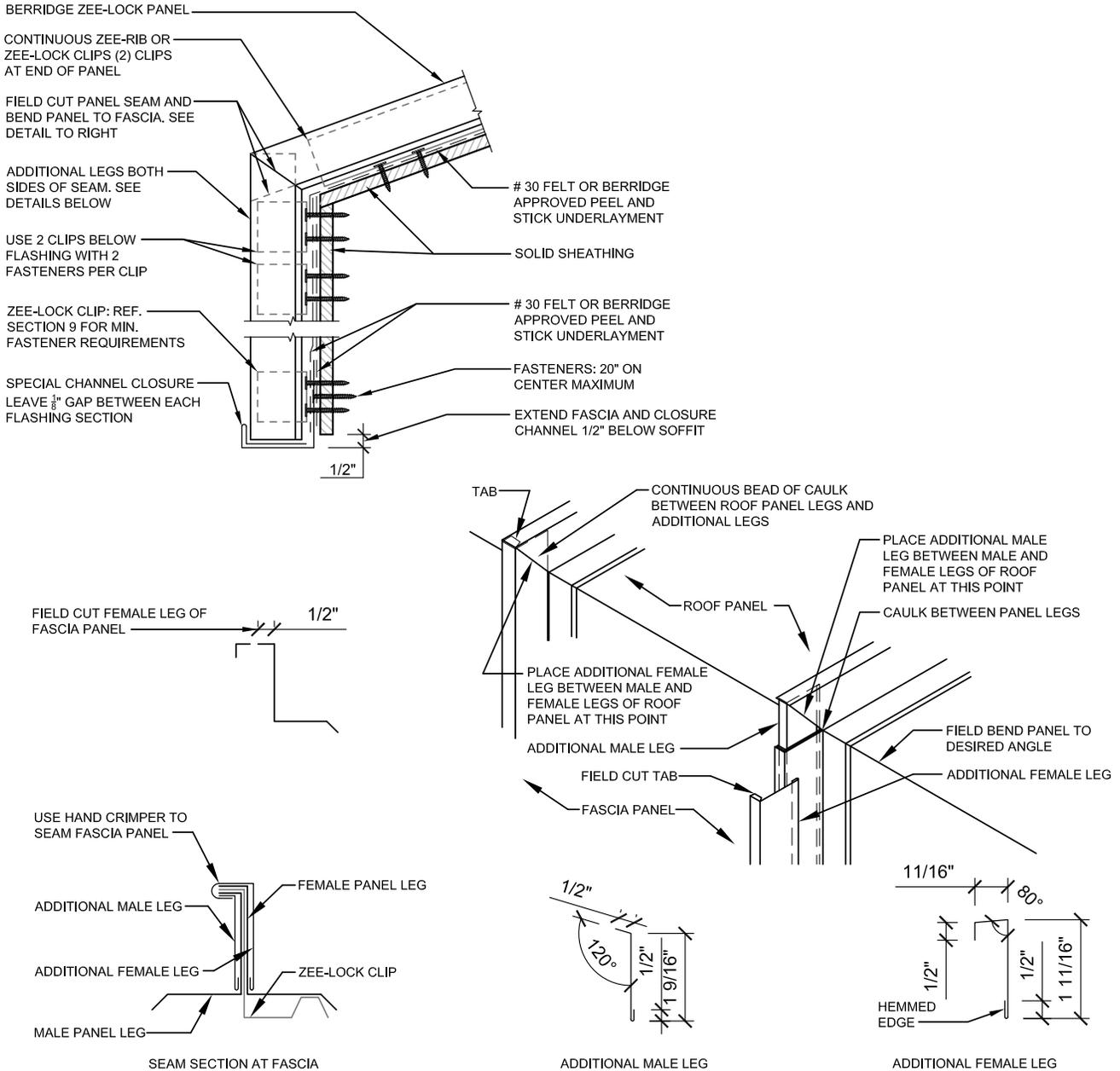
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ZEE-LOCK PANEL

SLOPE TRANSITION DETAIL ROOF TO FASCIA



1. FIELD CUT SEAM AND BREAK PANEL TO DESIRED ANGLE OF ROOF TO FASCIA.
2. PLACE PANELS ON ROOF, USE THE CONTINUOUS ZEE-RIB OR ZEE-LOCK CLIP ON ROOF. USE ONLY ZEE-LOCK CLIPS ON FASCIA.
3. ONLY ONE SLOPE TRANSITION PER PANEL IS RECOMMENDED. MAXIMUM FASCIA SPAN FOR OPEN FRAMING IS 3'-0".
4. USE HAND SEAM CRIMPER ON ROOF PANELS AS REQUIRED TO KEEP PANELS IN PLACE.
5. CAULK JOINT BETWEEN PANEL LEGS.
6. INSTALL ADDITIONAL MALE AND FEMALE LEGS AS SHOWN ABOVE ON "SEAM SECTION AT FASCIA" DETAIL. (THE ADDITIONAL LEGS CAN BE FIELD FABRICATED OR PURCHASED FROM THE FACTORY).
7. USE HAND SEAM CRIMPER TO SEAM PANEL ON FASCIA THEN MACHINE SEAM ROOF PANELS.
8. CAULK BETWEEN ROOF PANEL LEGS AND ADDITIONAL LEGS. SEE DETAIL ABOVE.

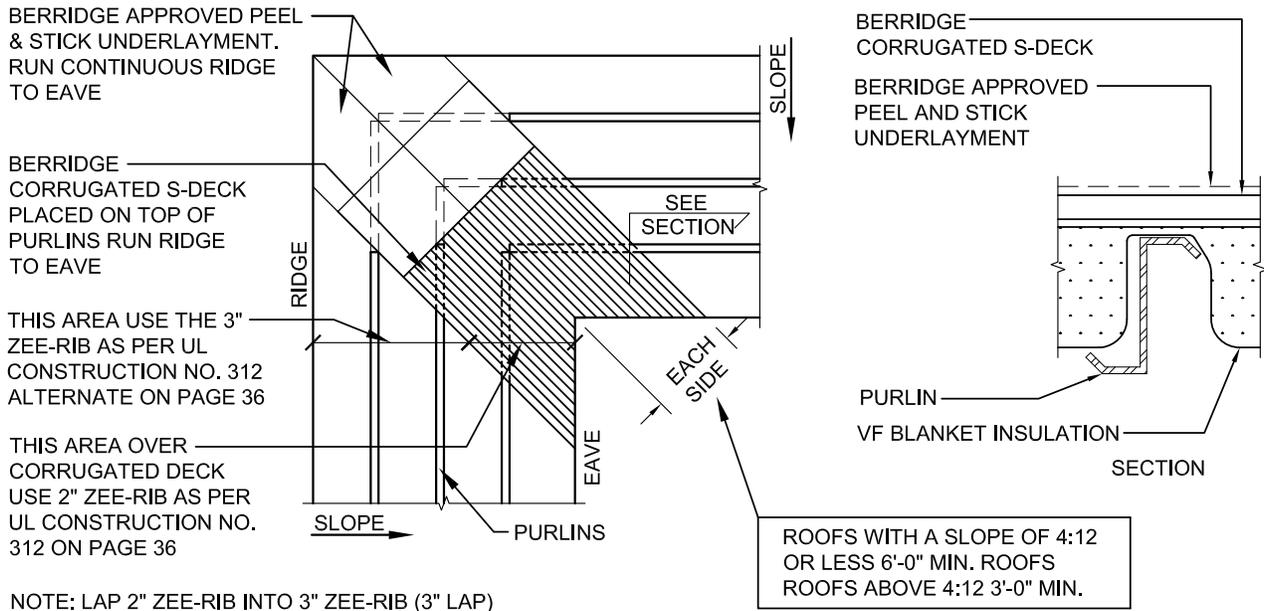
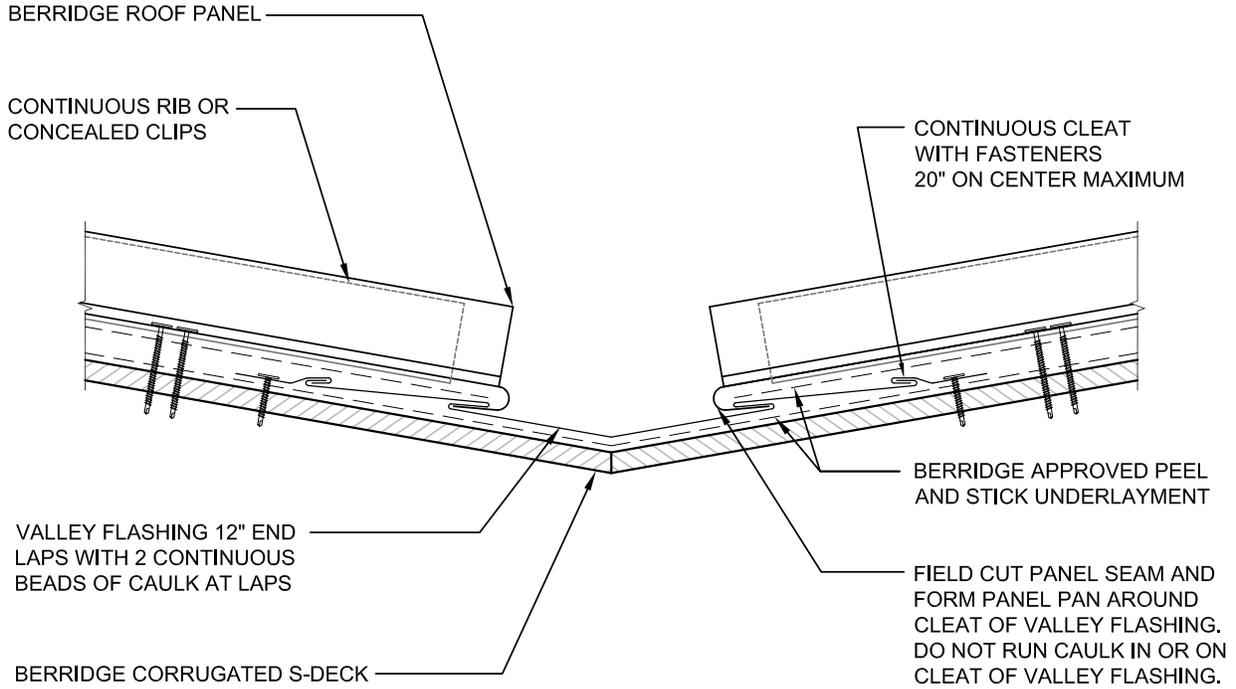
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ZEE-LOCK PANEL

VALLEY DETAIL FOR 3" RIB OPEN FRAMING



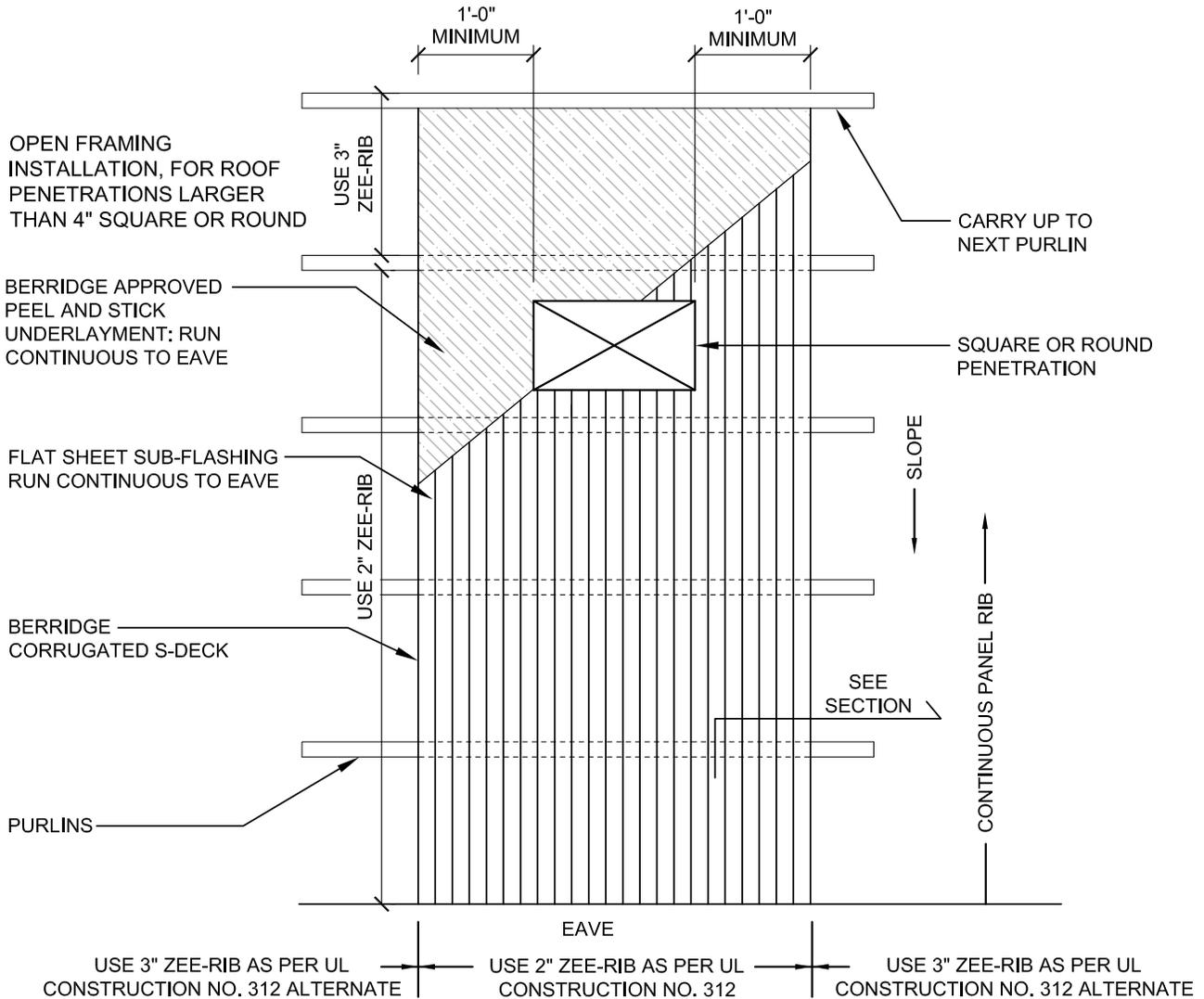
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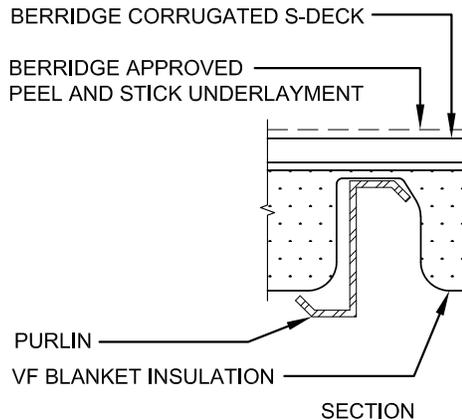
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ZEE-LOCK PANEL

ROOF PENETRATION DETAIL FOR 3" RIB OPEN FRAMING



*USE SHIMS TO KEEP THE ZEE-RIB FROM FALLING INTO THE VALLEYS OF THE CORRUGATED DECK.



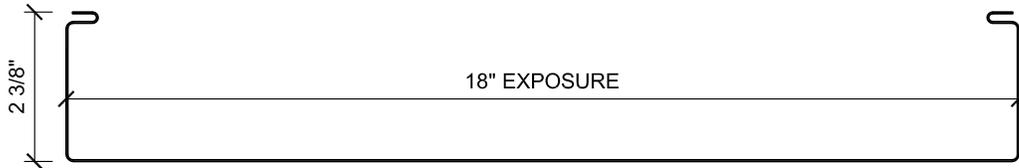
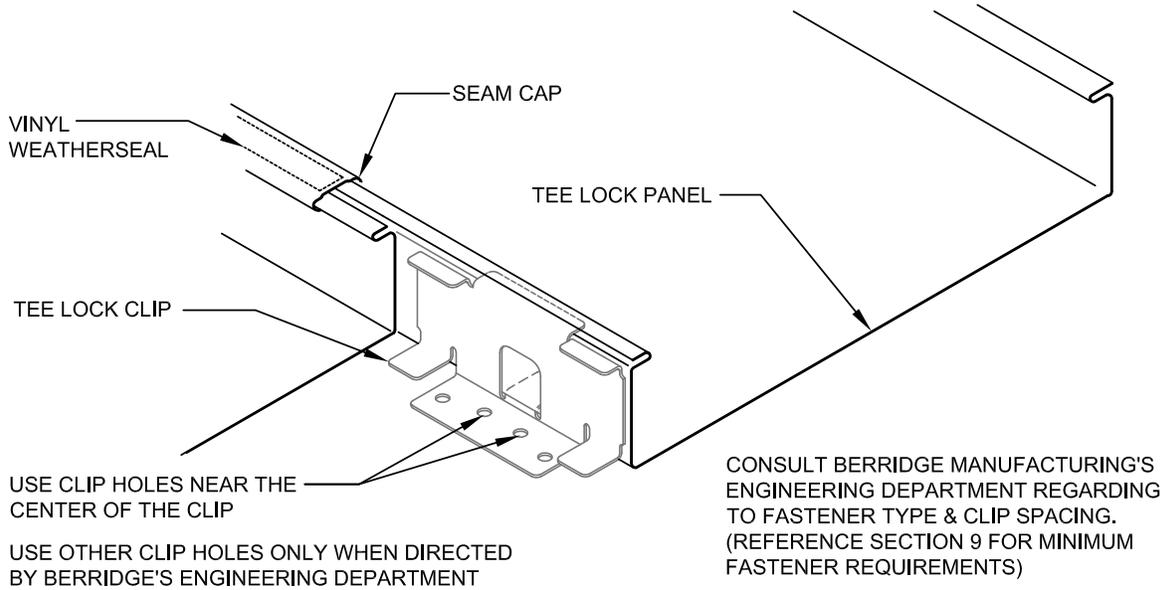
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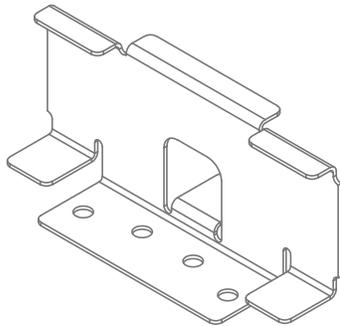
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TEE-LOCK PANEL

TEE-LOCK PANEL OVERVIEW WITH TEE-LOCK CLIPS

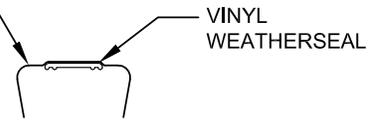


PANEL SECTION

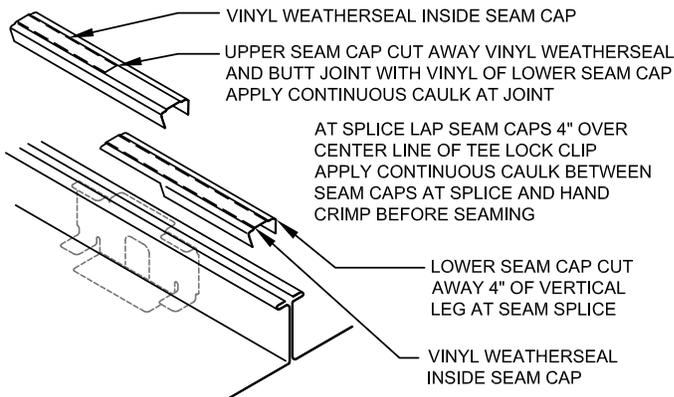


TEE LOCK CLIP

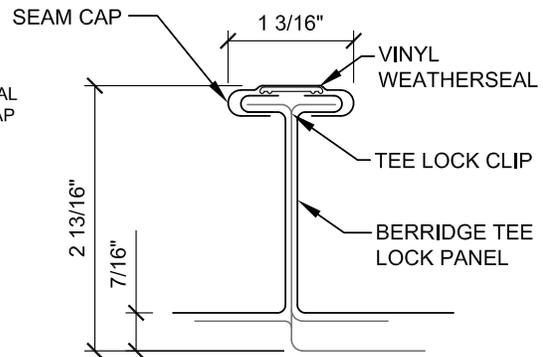
IF REQUIRED, SPLICE SEAM CAP 4" APPLY CONTINUOUS CAULK AT SPLICE AND HAND CRIMP BEFORE SEAMING



SEAM CAP



SEAM CAP SPLICE



TEE LOCK SEAM SECTION

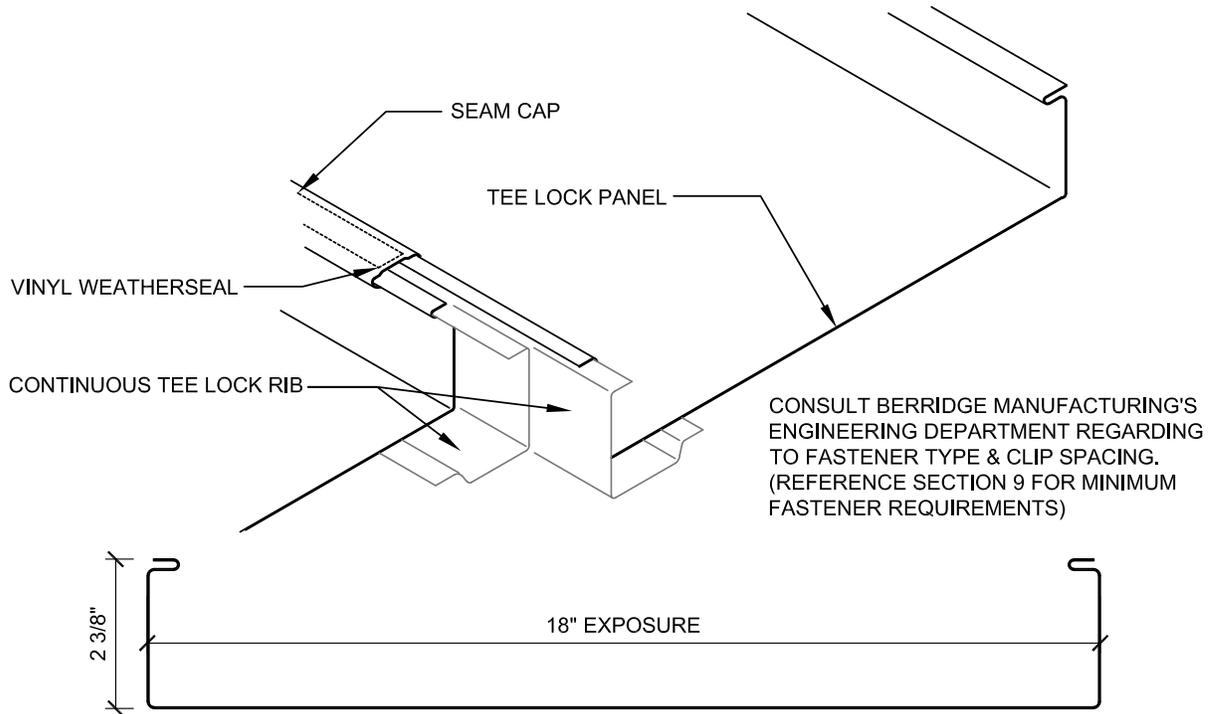
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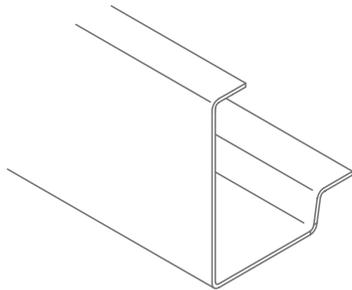
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TEE-LOCK PANEL

TEE-LOCK PANEL OVERVIEW WITH TEE-LOCK RIB

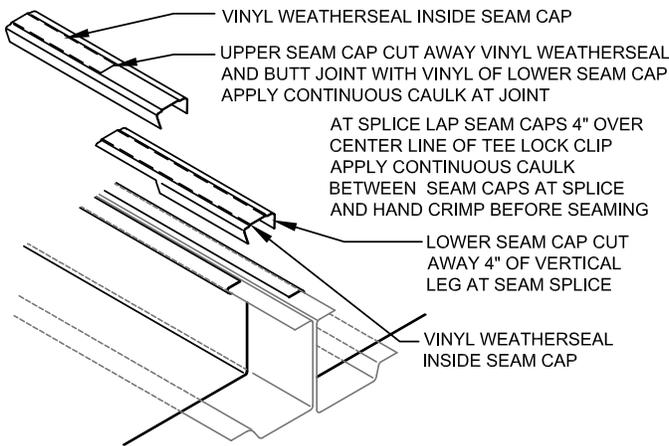
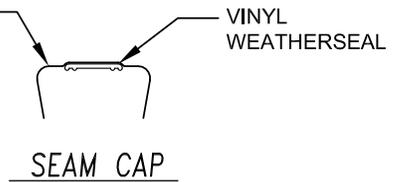


PANEL SECTION

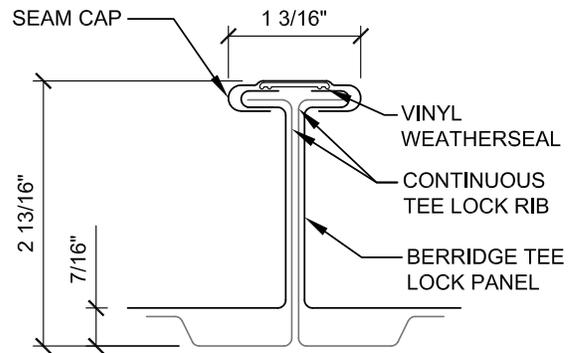


CONTINUOUS TEE LOCK RIB

IF REQUIRED, SPLICE SEAM CAP 4" APPLY CONTINUOUS CAULK AT SPLICE AND HAND CRIMP BEFORE SEAMING



SEAM CAP SPLICE



TEE LOCK SEAM SECTION

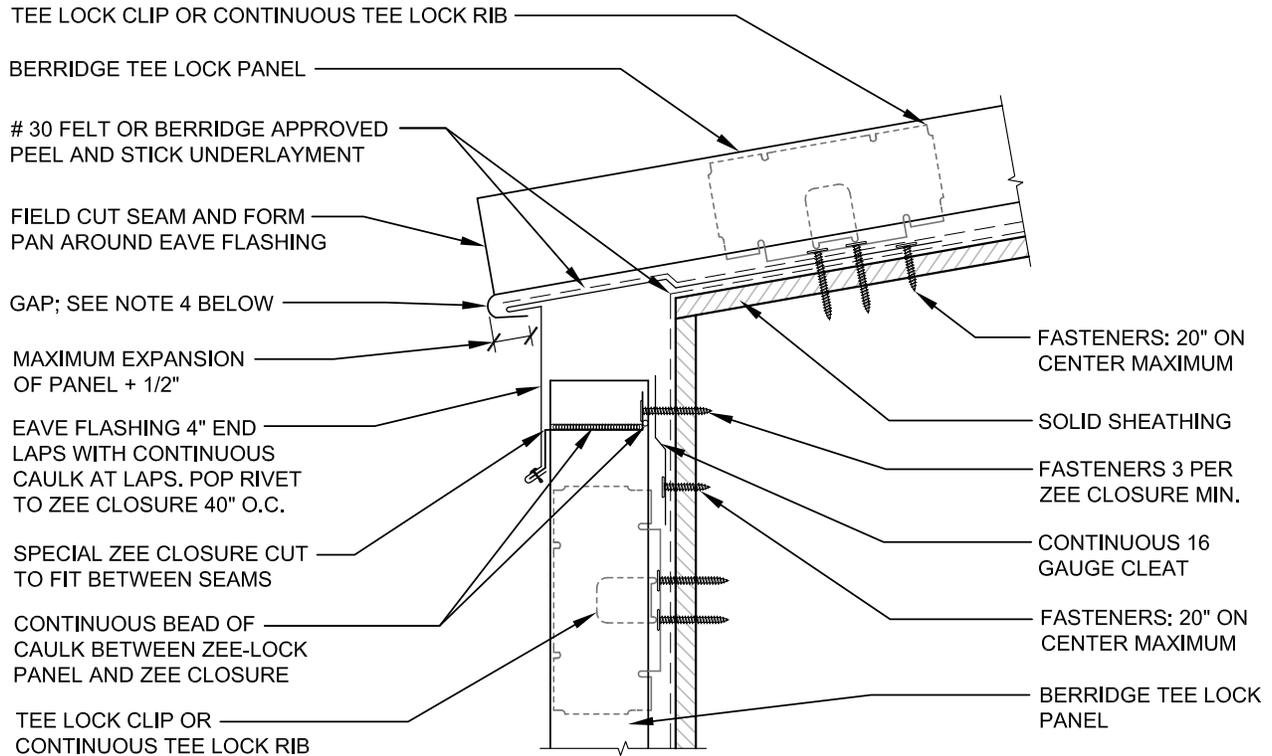
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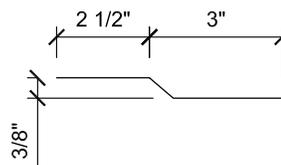
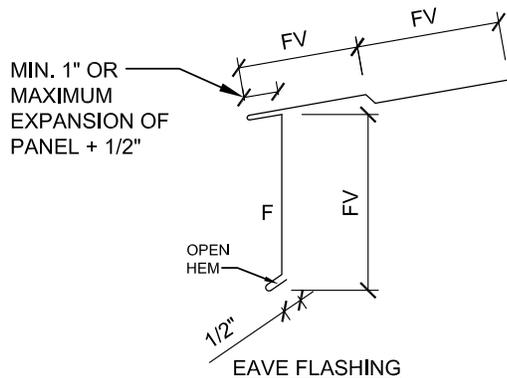
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TEE-LOCK PANEL

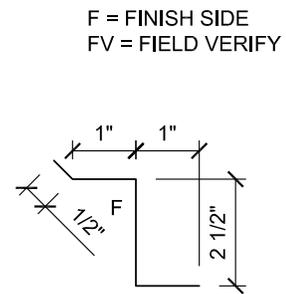
SLOPE TRANSITION DETAIL ROOF TO FASCIA



1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM OF 24 GAUGE CORRUGATED METAL OR 1/2" PLYWOOD TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
3. REFERENCE BERRIDGE'S WEB SITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & CLIP SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
4. THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PANEL PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. REFER TO NOMINAL EXPANSION CHART FOR EXPANSION PANEL GUIDANCE.
5. THE GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.



CONTINUOUS 16 GAUGE CLEAT



SPECIAL ZEE CLOSURE

F = FINISH SIDE
FV = FIELD VERIFY

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SECTION 4

TILE & SHINGLES

& OTHER ROOF SYSTEMS

- **BATTEN SEAM PANEL**
- **BERMUDA PANEL**
- **SPANISH TILE**
- **S-TILE**
- **VICTORIAN & CLASSIC SHINGLES**
- **CURVED FLAT SEAM**

For the most up-to-date information visit www.berridge.com

SECTION 4 TILE, SHINGLES & OTHER ROOF SYSTEMS

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Notes: Please review Common Details Section 2 for eave, ridge, hip, gable, parapet, etc. details. Consult Design Guide Section 1 for additional information on UL Fire Assemblies. You may also visit www.berridge.com for complete information.

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SECTION 4 TILE, SHINGLES & OTHER ROOF SYSTEMS

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NOTE:

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions.

Berridge Manufacturing Company shall be held harmless from any and all claims arising from lack of watertightness as a result of following these recommended details. Ensuring watertightness on any given project is the function of the installer. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements and assure adequate watertightness.

The installer can virtually assure watertightness if these details have been properly adapted, adequate laps have been provided, correct type of underlayment and sealant used, all joints adequately caulked and professional workmanship employed.

Should a watertightness warranty be required on a specific project, please refer to the procedures outlined in the “Design Guide” section of this manual. These procedures must be adhered to in order for Berridge to issue any type of watertightness warranty.

NOTES

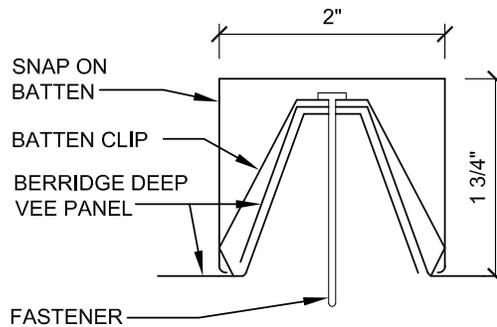
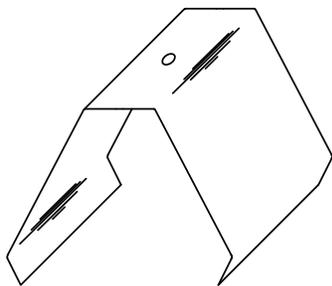
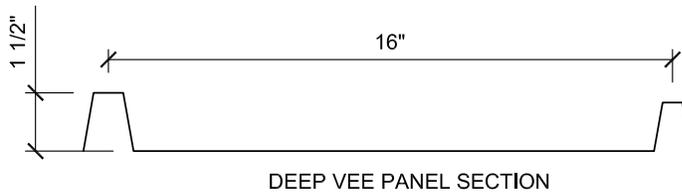
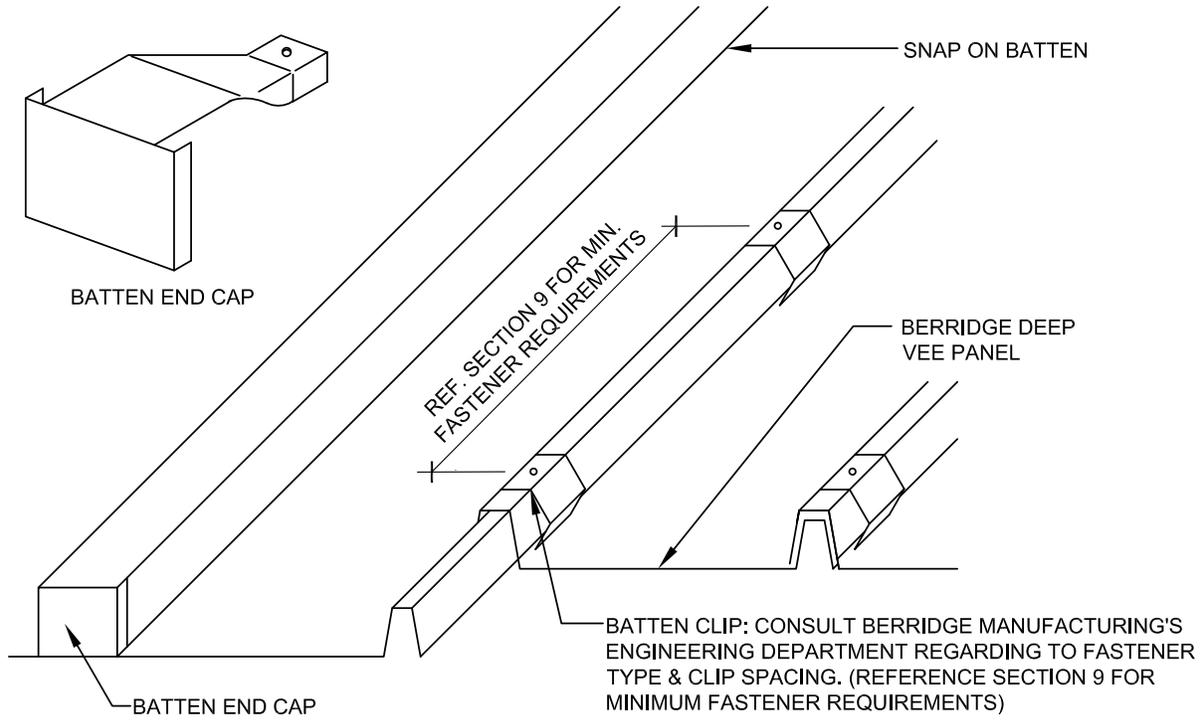
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BATTEN SEAM PANEL

BATTEN SEAM PANEL OVERVIEW



BATTEN CLIP

BATTEN SEAM SYSTEM

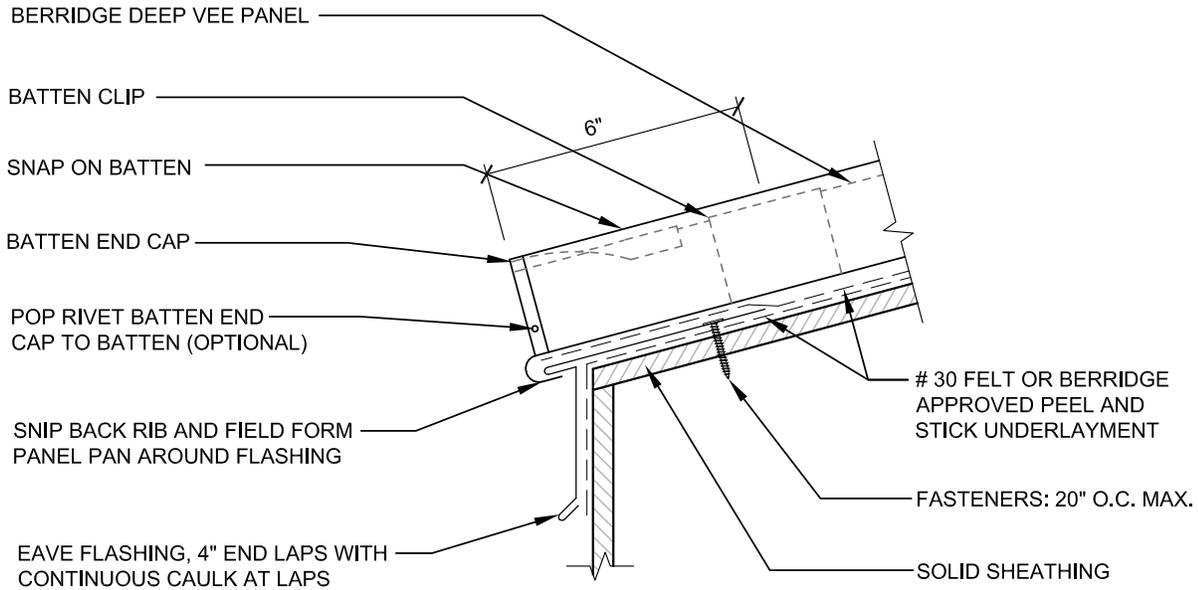
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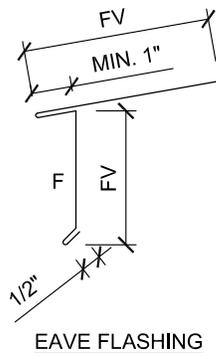
BATTEN SEAM PANEL

EAVE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

F = FINISH SIDE
FV = FIELD VERIFY



EAVE FLASHING

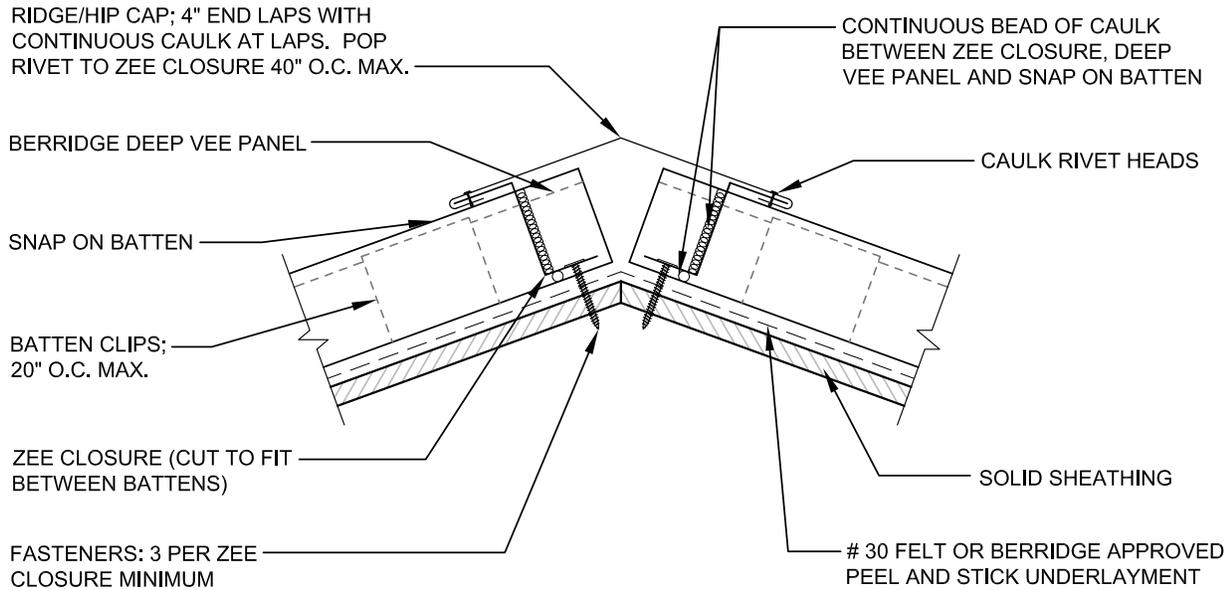
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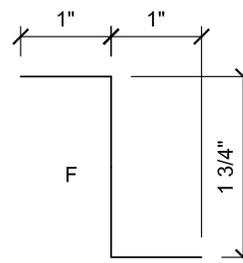
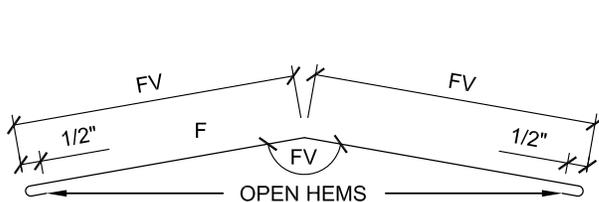
BATTEN SEAM PANEL

RIDGE DETAIL



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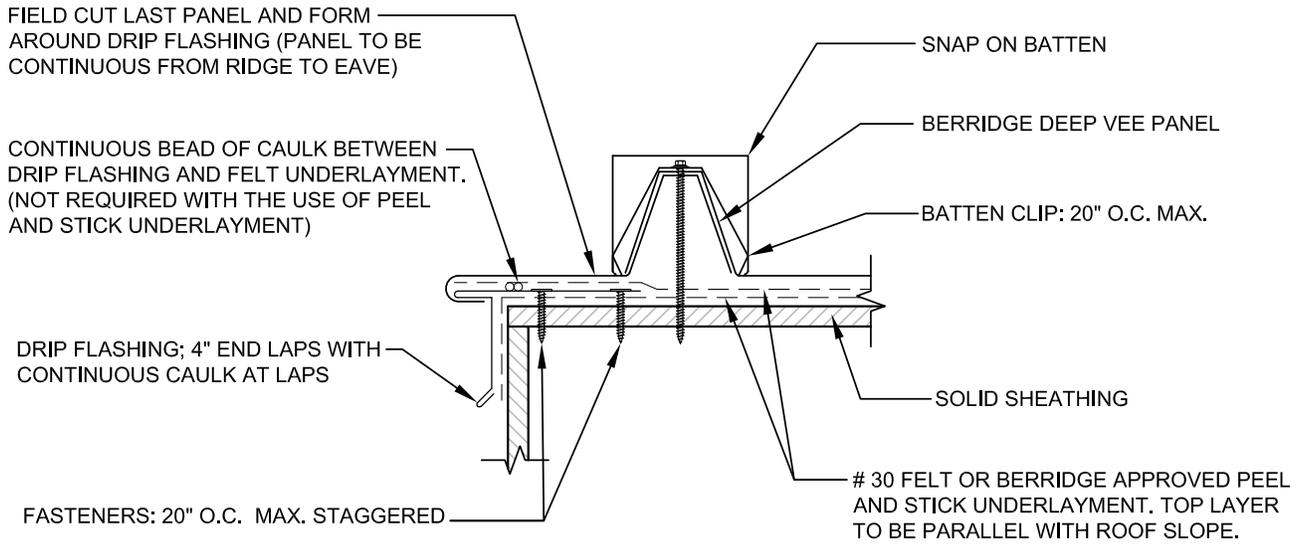
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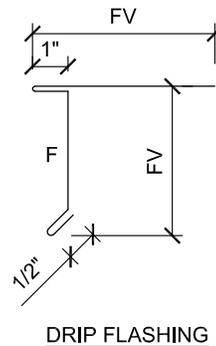
BATTEN SEAM PANEL

GABLE DETAIL



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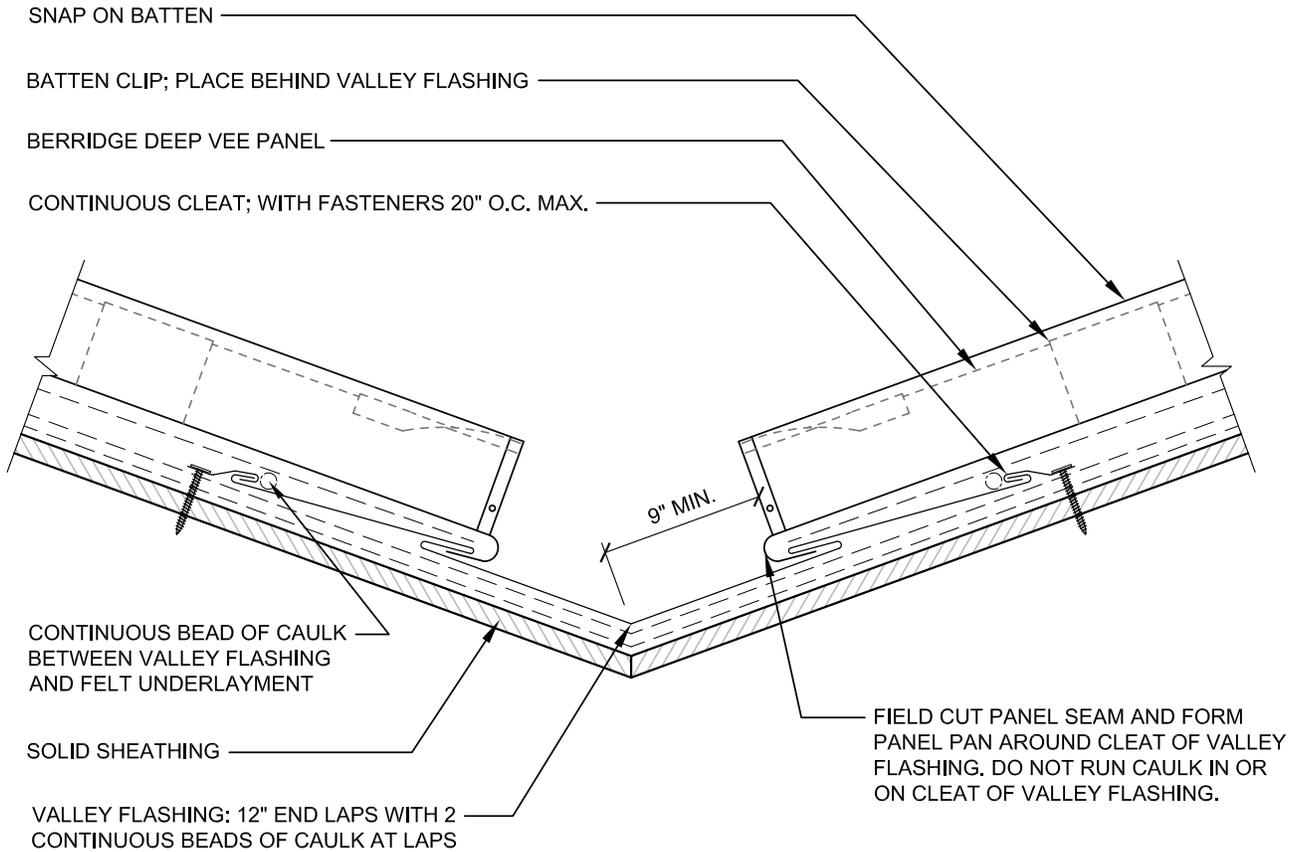
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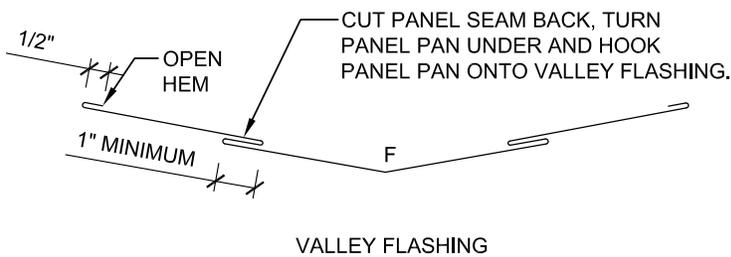
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BATTEN SEAM PANEL

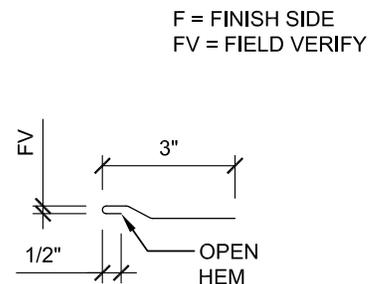
VALLEY DETAIL



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FORM VALLEY FLASHING FROM A FULL 42" OR 48" WIDE FLAT SHEET SEE TAPERED VALLEY DETAIL ON PAGE 80



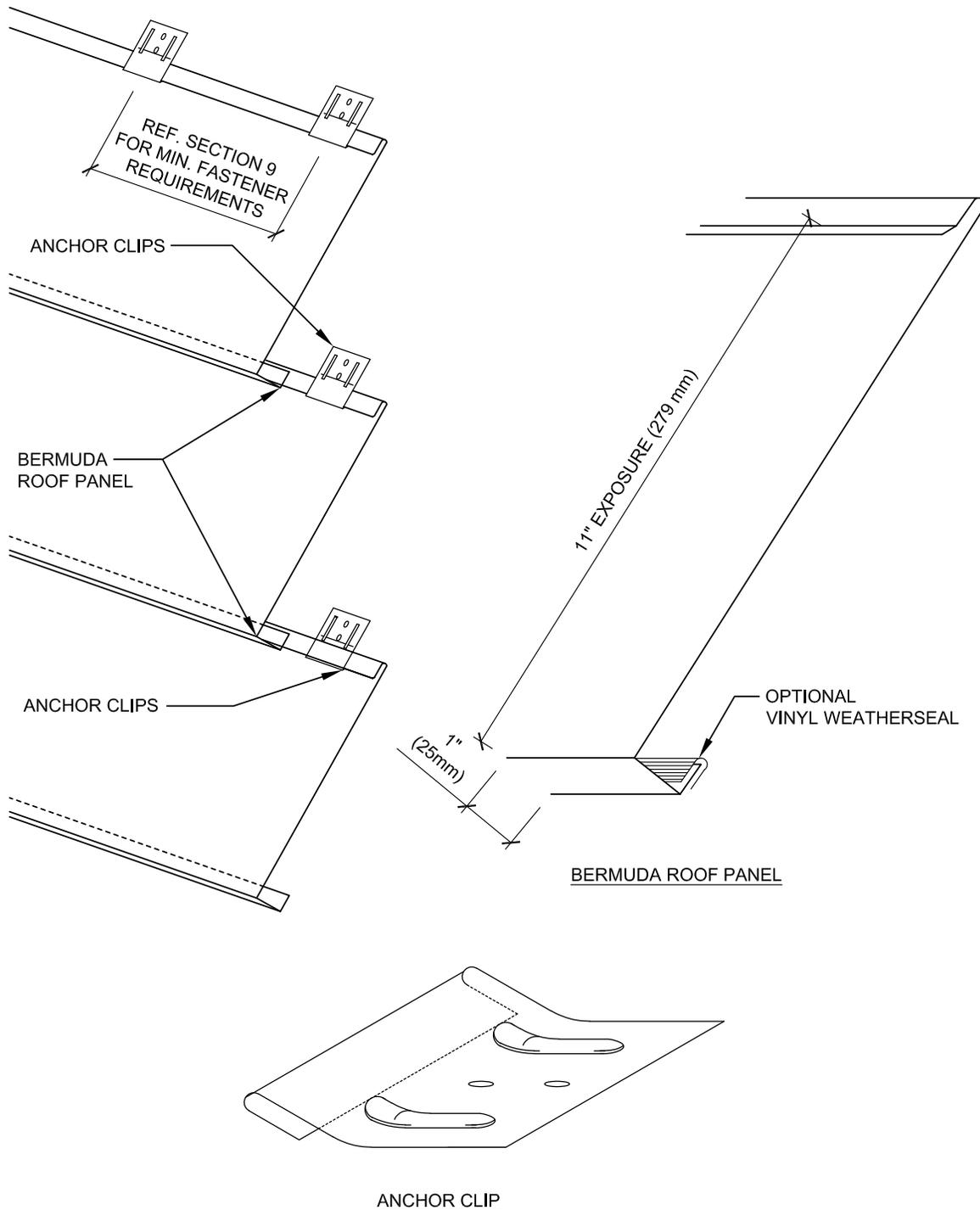
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BERMUDA PANEL

BERMUDA PANEL OVERVIEW



Other Roof Systems

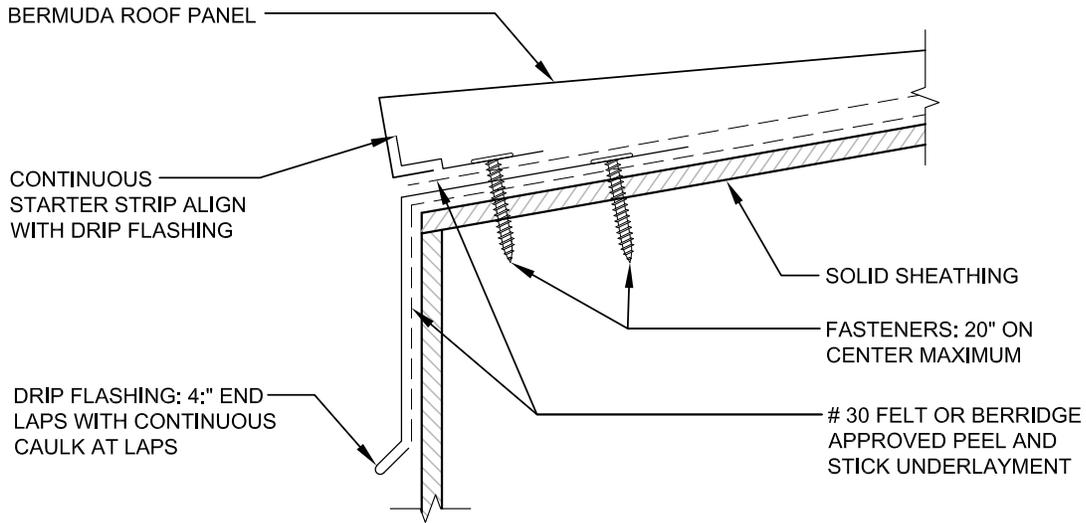
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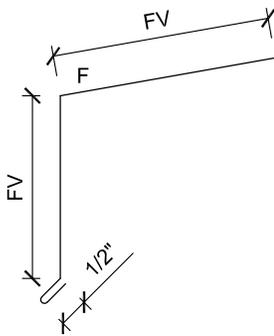
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BERMUDA PANEL

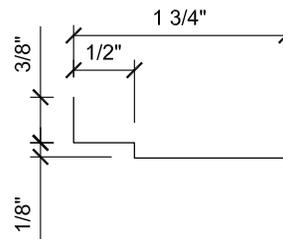
EAVE DETAIL



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DRIP FLASHING



STARTER STRIP

F = FINISH SIDE
FV = FIELD VERIFY

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BERMUDA PANEL

RIDGE DETAILS

RIDGE FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ZEE CLOSURE 40" O.C. & AT LAPS CAULK RIVET HEADS

ZEE CLOSURE: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

BERMUDA ROOF PANEL

CONTINUOUS BEAD OF CAULK

SOLID SHEATHING

FASTENERS: 20" ON CENTER MAXIMUM

30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT

RIDGE FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ROOF PANEL 40" O.C. & AT LAPS CAULK RIVET HEADS

CONTINUOUS BEAD OF CAULK

BERMUDA ROOF PANEL

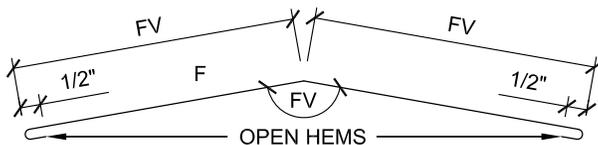
SOLID SHEATHING

30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT

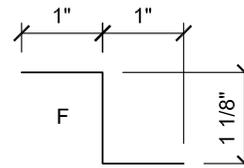
FASTENERS: 20" ON CENTER MAXIMUM

1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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RIDGE FLASHING



ZEE CLOSURE

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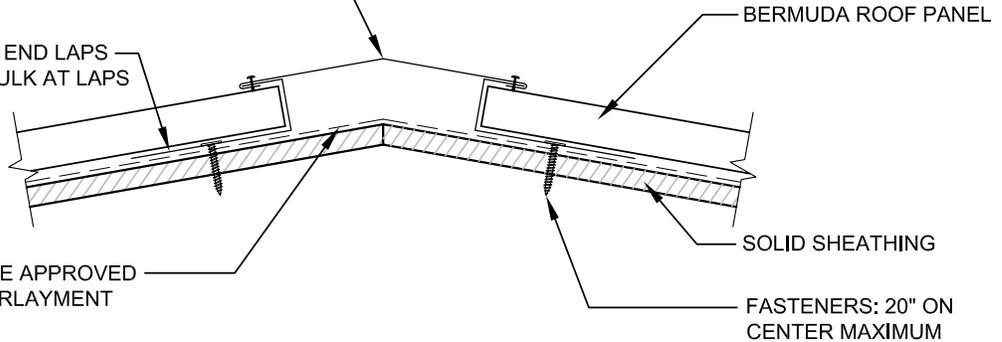
BERMUDA PANEL

HIP DETAILS

HIP FLASHING: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO CHANNEL CLOSURE 40" O.C. & AT LAPS CAULK RIVET HEADS

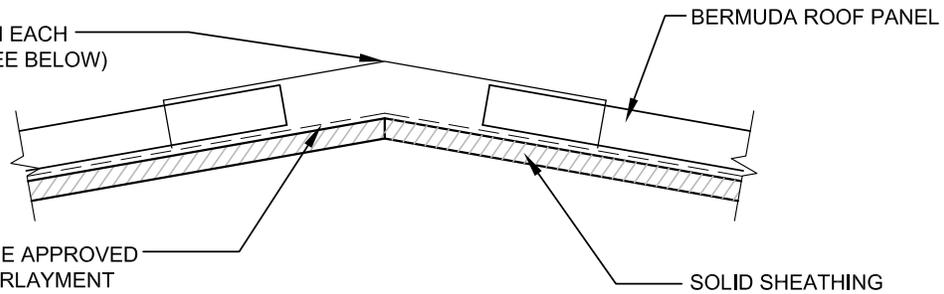
CHANNEL CLOSURE: 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT



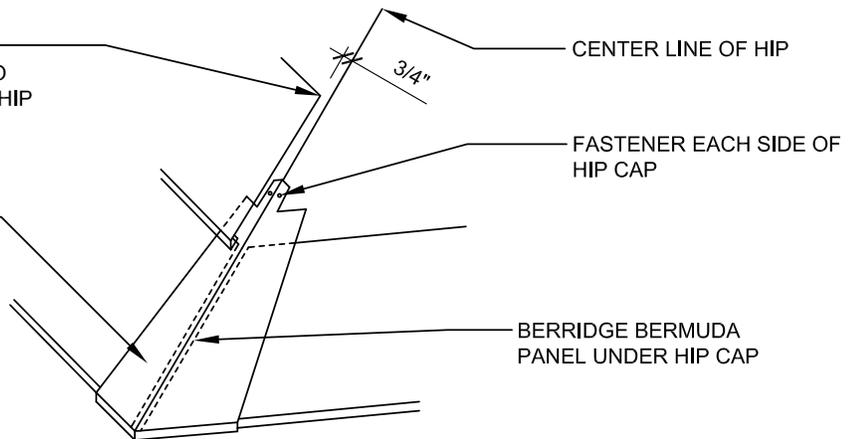
HIP CAP: INSTALL WITH EACH COURSE OF PANEL (SEE BELOW)

30 FELT OR BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT

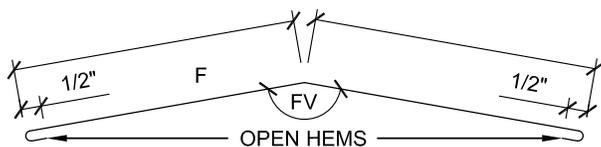


BERRIDGE BERMUDA PANEL ABOVE HIP CAP, FIELD CUT TO ALIGN WITH CENTER LINE OF HIP

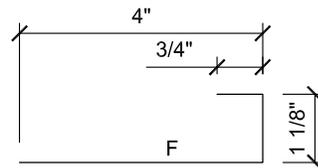
HIP CAP: INSTALL WITH EACH COURSE OF PANEL. HIP CAP HAS SLIGHT LINEAL EMBOSSED LINES



F = FINISH SIDE
FV = FIELD VERIFY



HIP FLASHING



CHANNEL CLOSURE

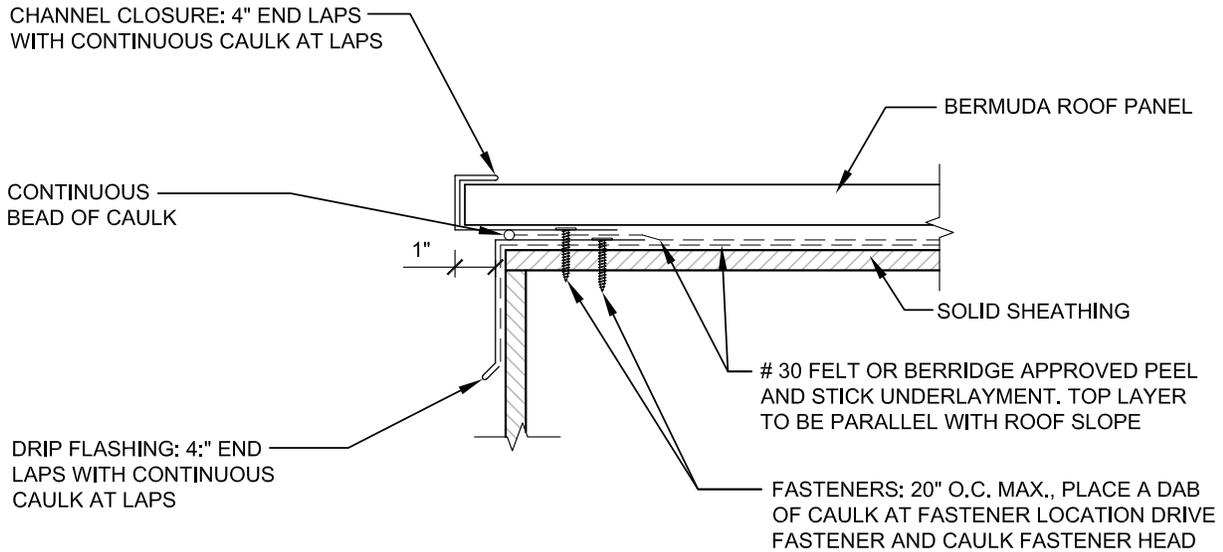
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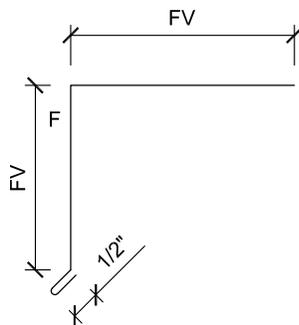
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BERMUDA PANEL

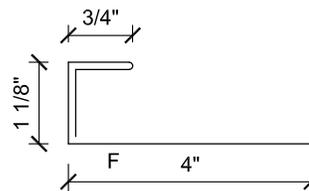
GABLE DETAIL



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DRIP FLASHING



CHANNEL CLOSURE

F = FINISH SIDE
FV = FIELD VERIFY

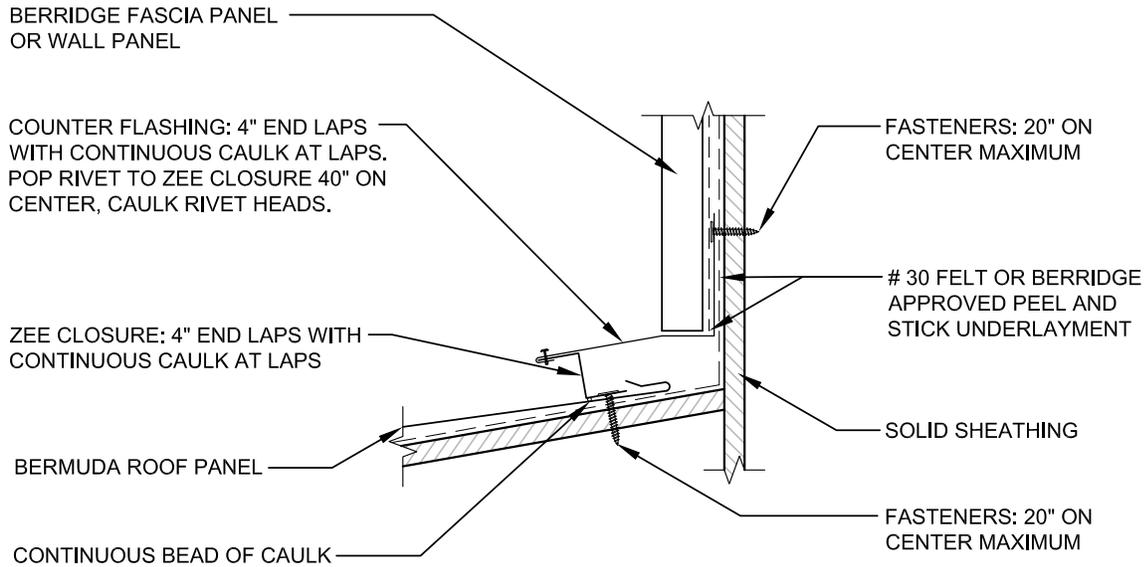
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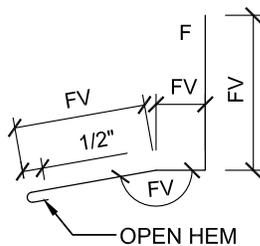
BERMUDA PANEL

HEAD WALL DETAIL

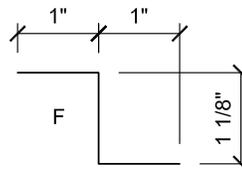


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F = FINISH SIDE
FV = FIELD VERIFY



COUNTER FLASHING



ZEE CLOSURE

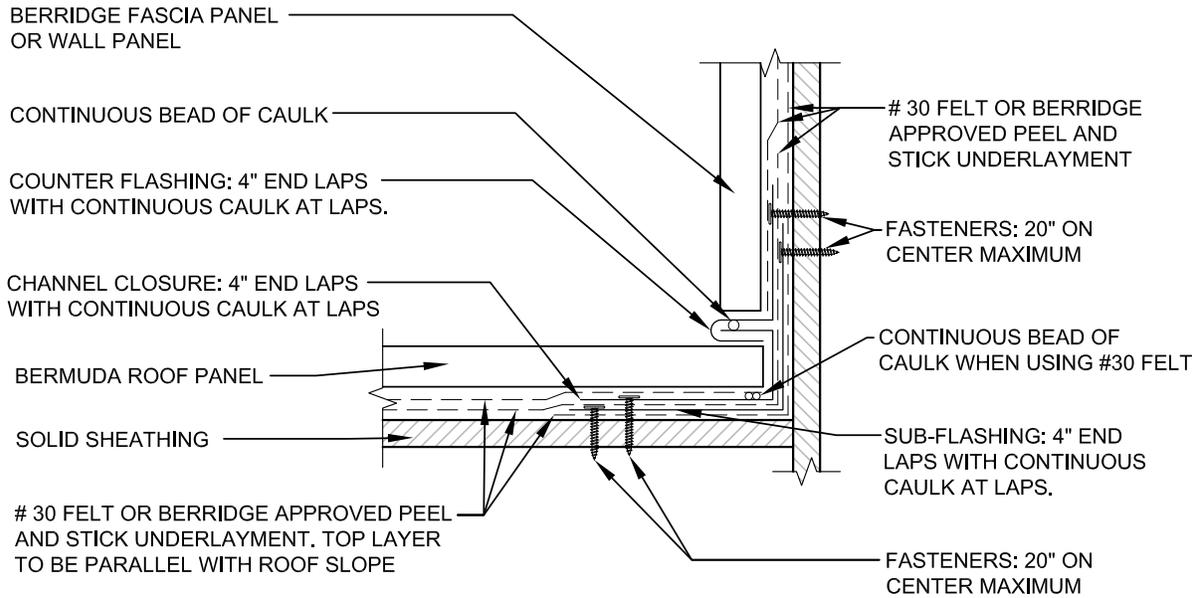
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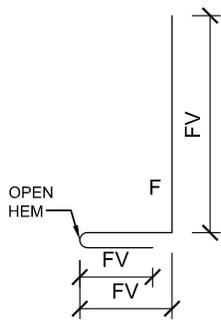
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BERMUDA PANEL

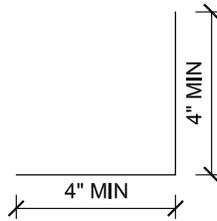
RAKE WALL DETAIL



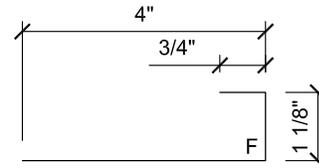
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COUNTER FLASHING



SUB FLASHING



CLOSURE CHANNEL

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FV = FIELD VERIFY

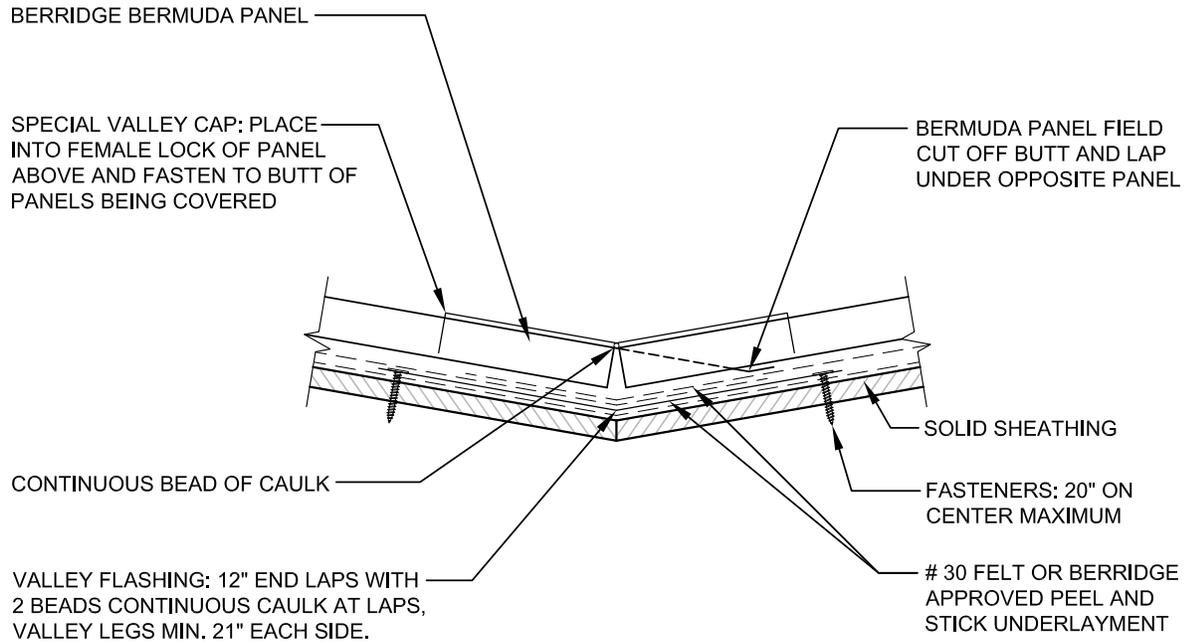
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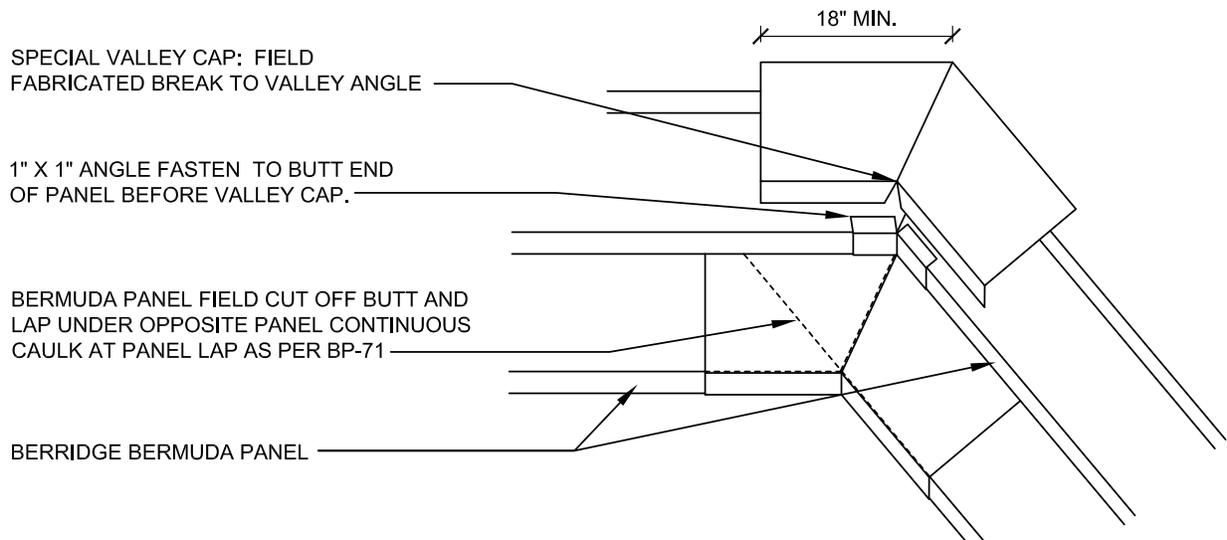
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BERMUDA PANEL

VALLEY DETAILS



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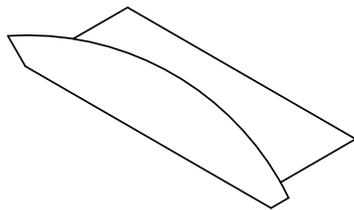
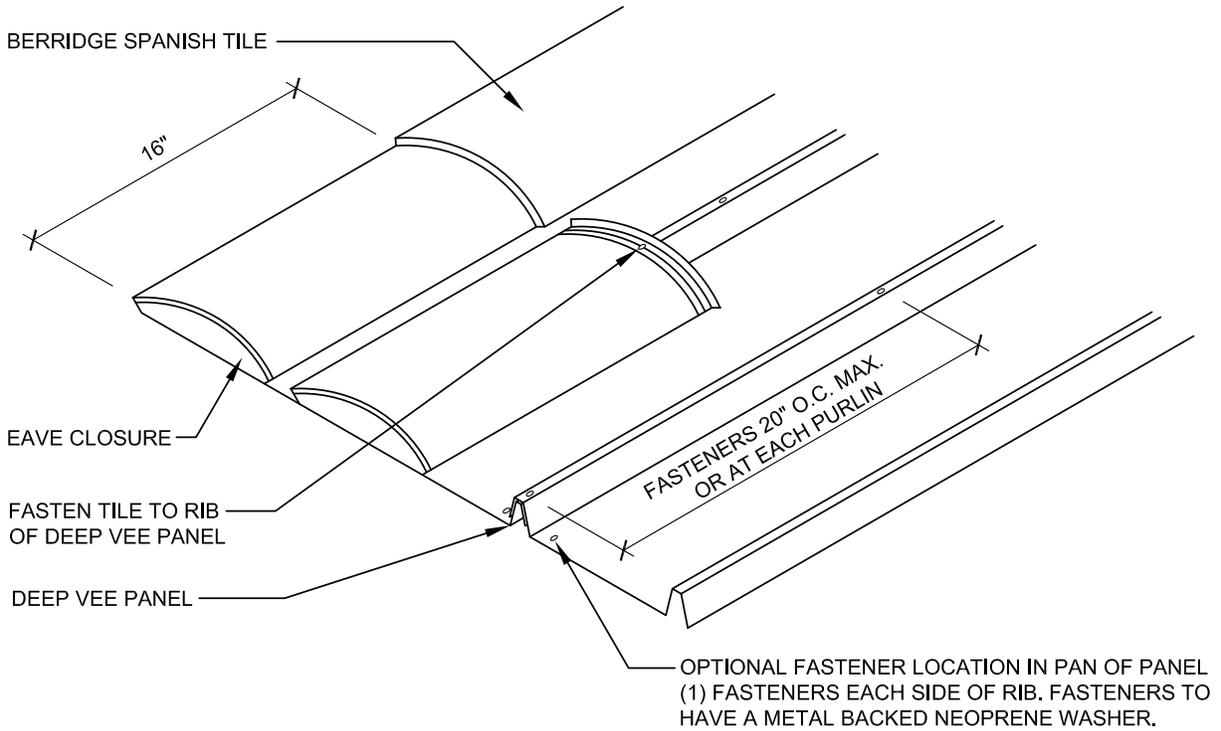
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SPANISH TILE

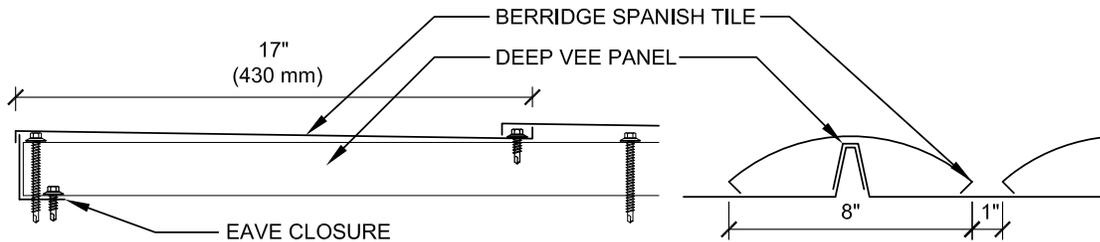
SPANISH TILE OVERVIEW



EAVE CLOSURE



DEEP VEE PANEL SECTION



PANEL ASSEMBLY SECTION

SPANISH TILE SECTION

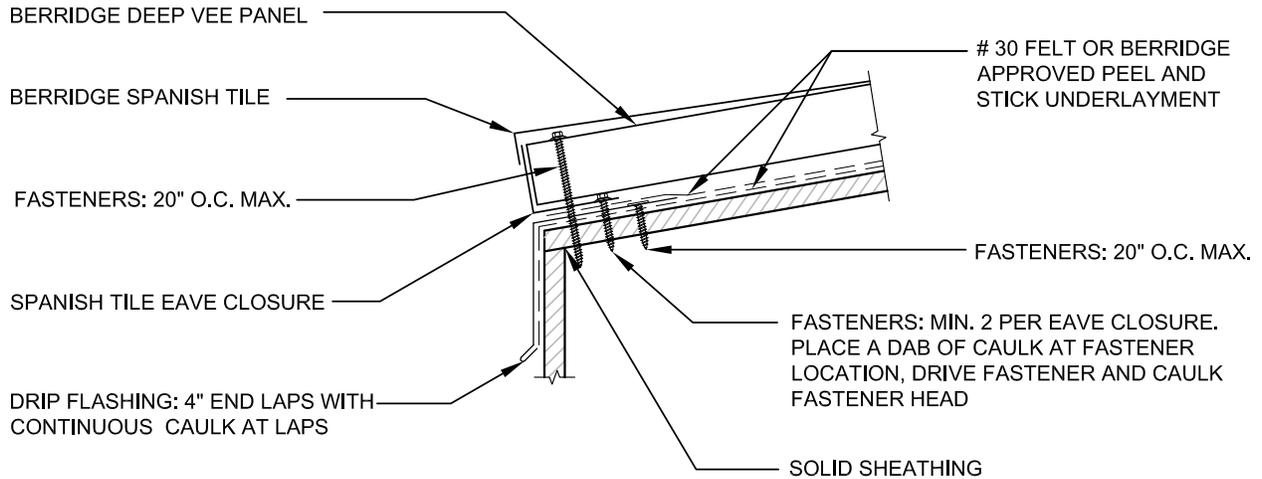
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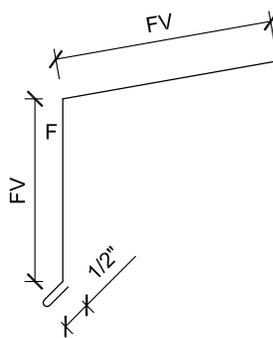
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DRIP FLASHING

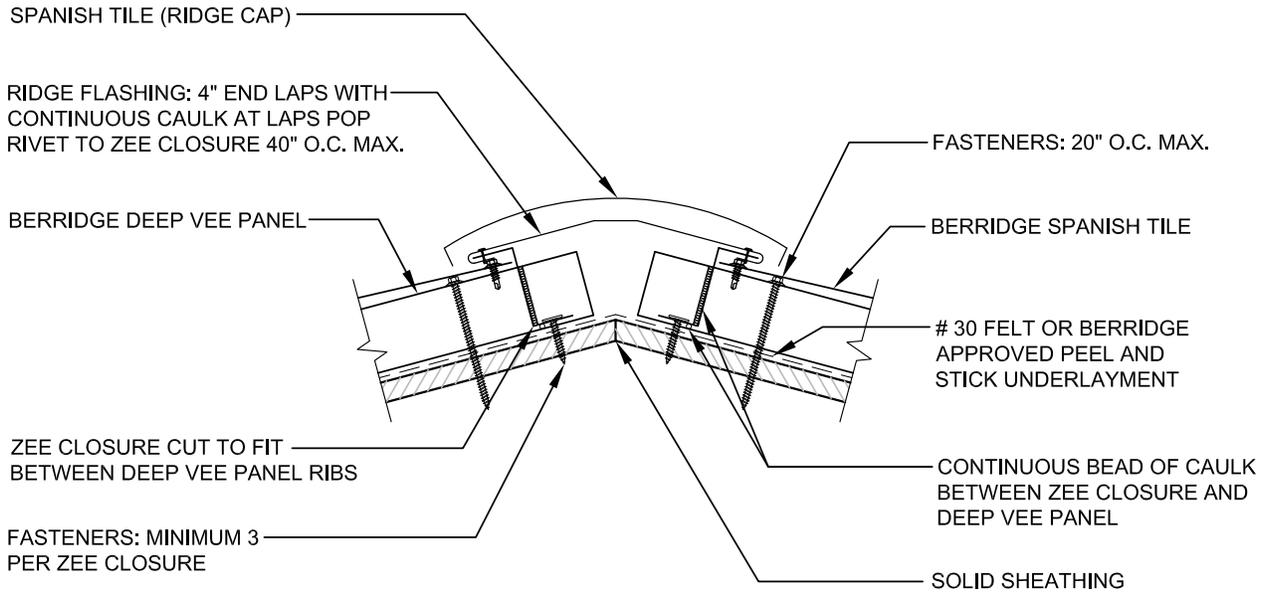
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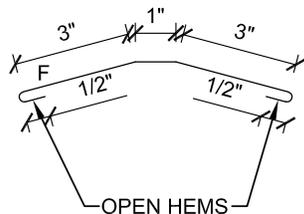
SPANISH TILE

RIDGE/HIP DETAIL

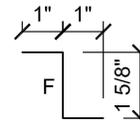


1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

F = FINISH SIDE
FV = FIELD VERIFY



RIDGE FLASHING



ZEE CLOSURE

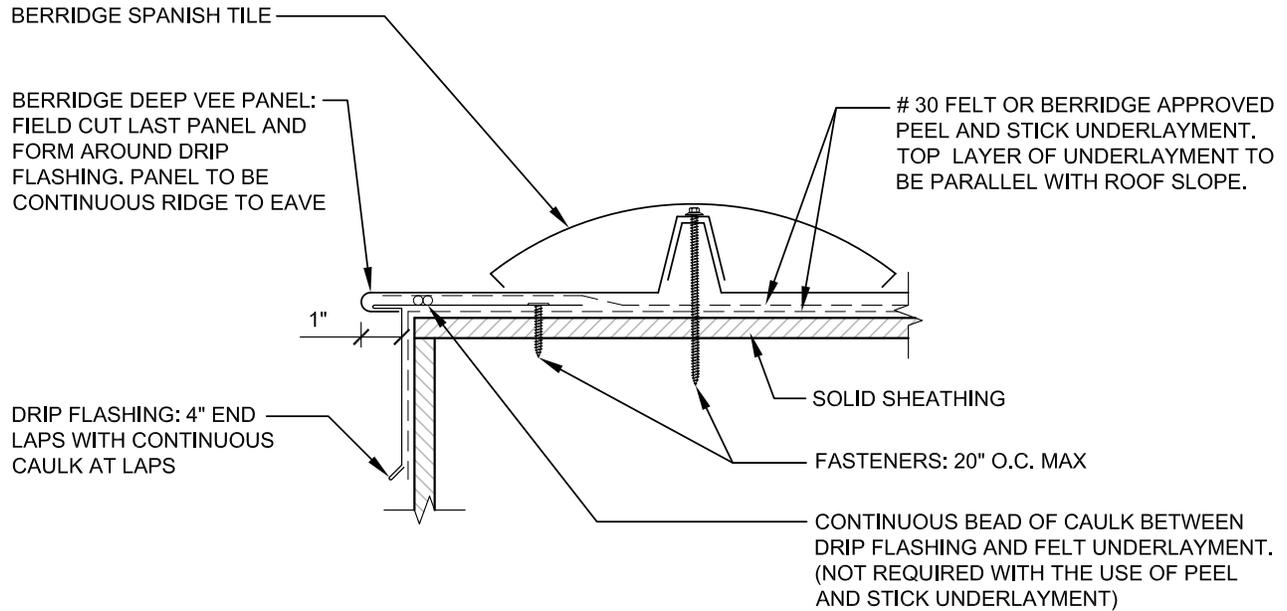
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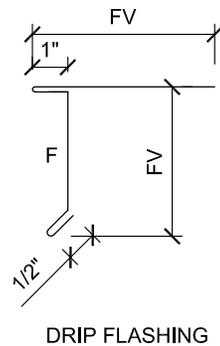
SPANISH TILE

GABLE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

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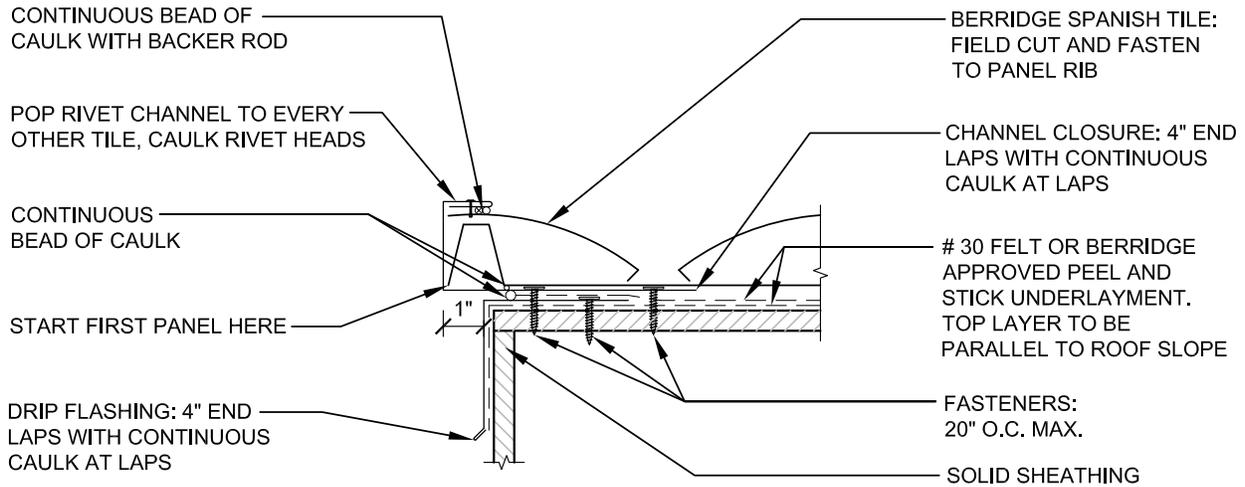
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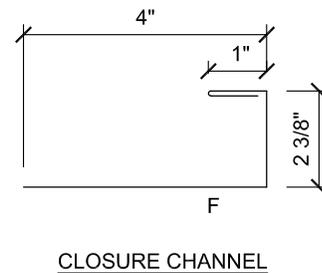
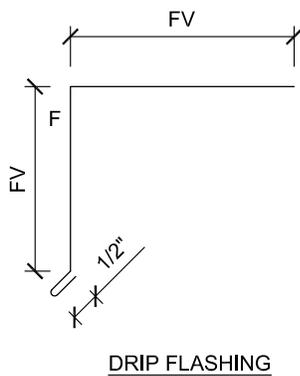
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SPANISH TILE

GABLE AT RIDGE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



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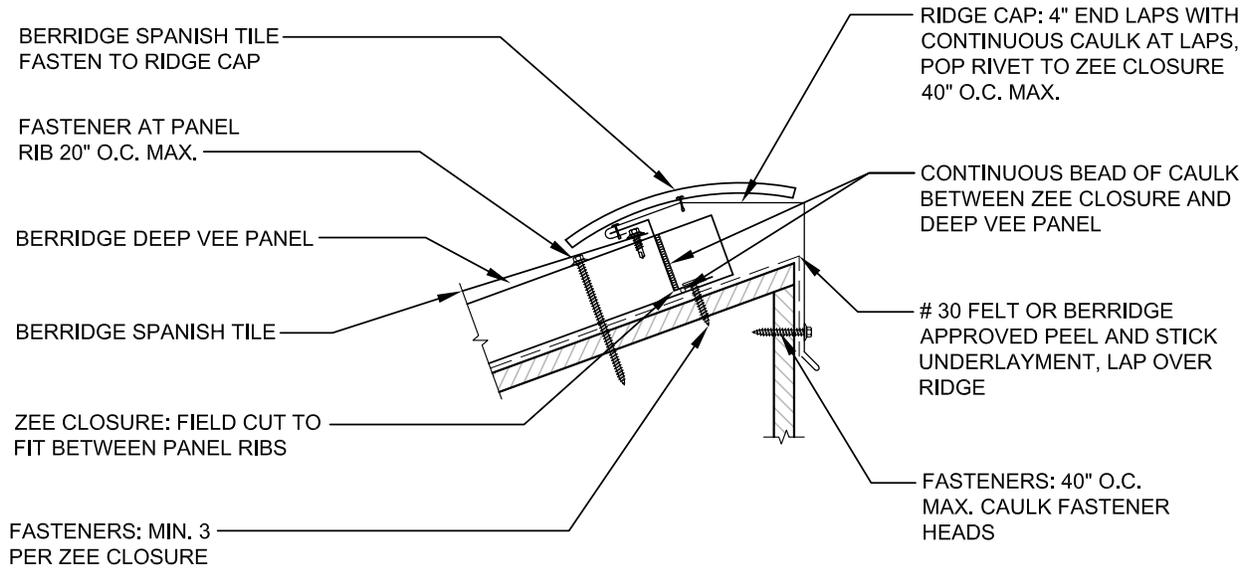
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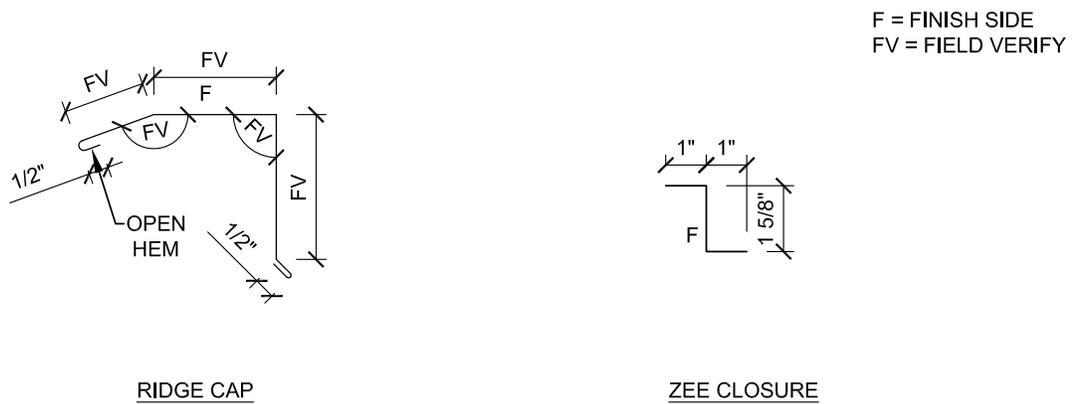
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SPANISH TILE

SHED ROOF RIDGE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



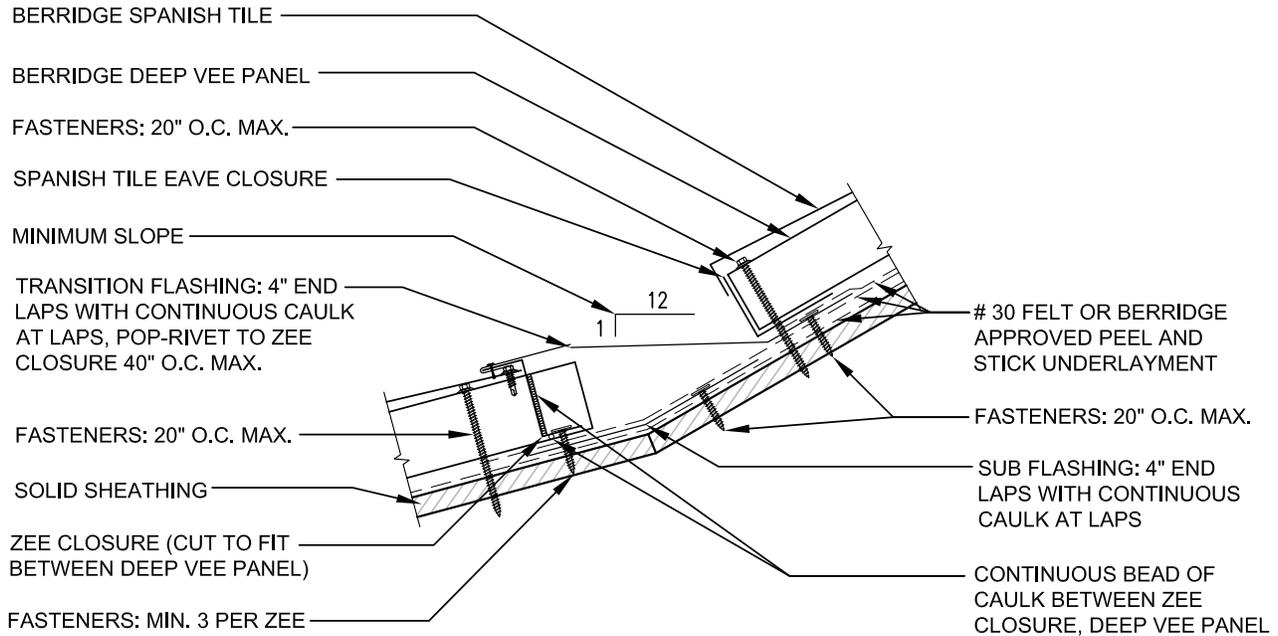
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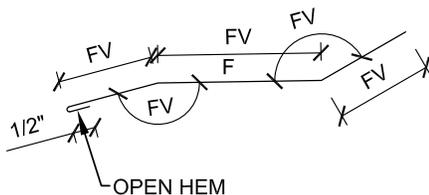
SPANISH TILE

SLOPE TRANSITION DETAIL

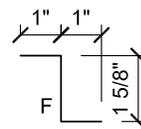


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FV = FIELD VERIFY



TRANSITION FLASHING



ZEE CLOSURE

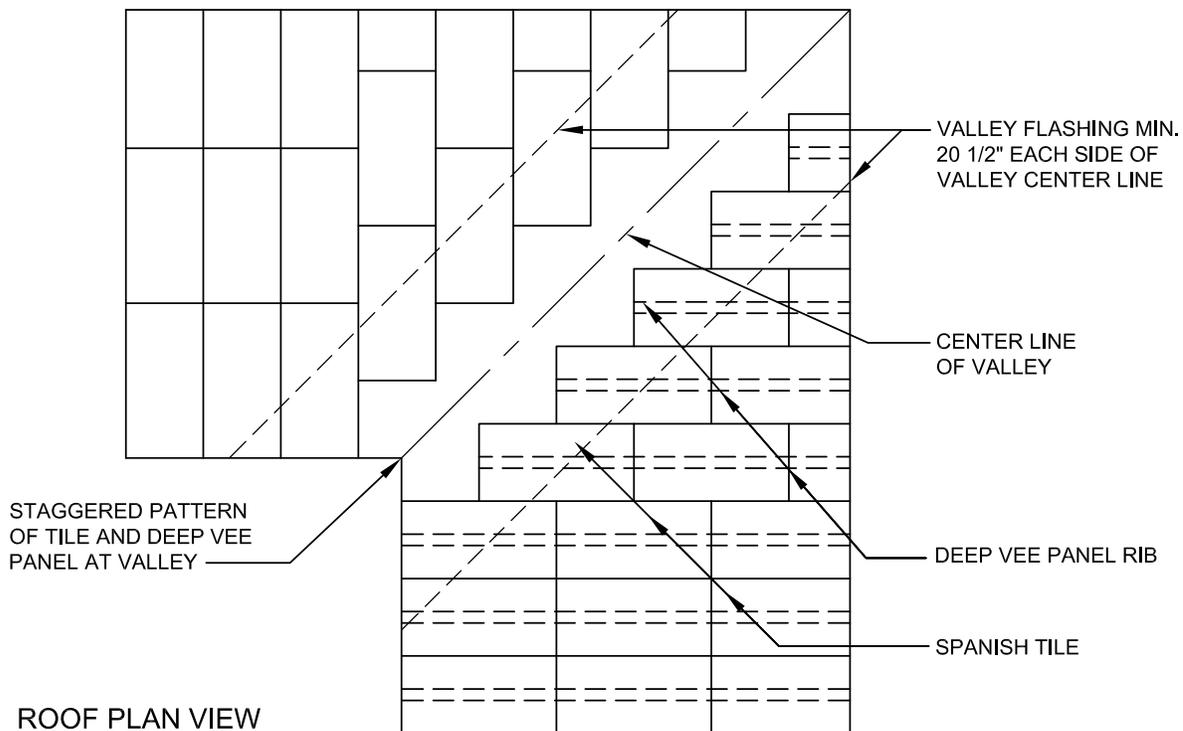
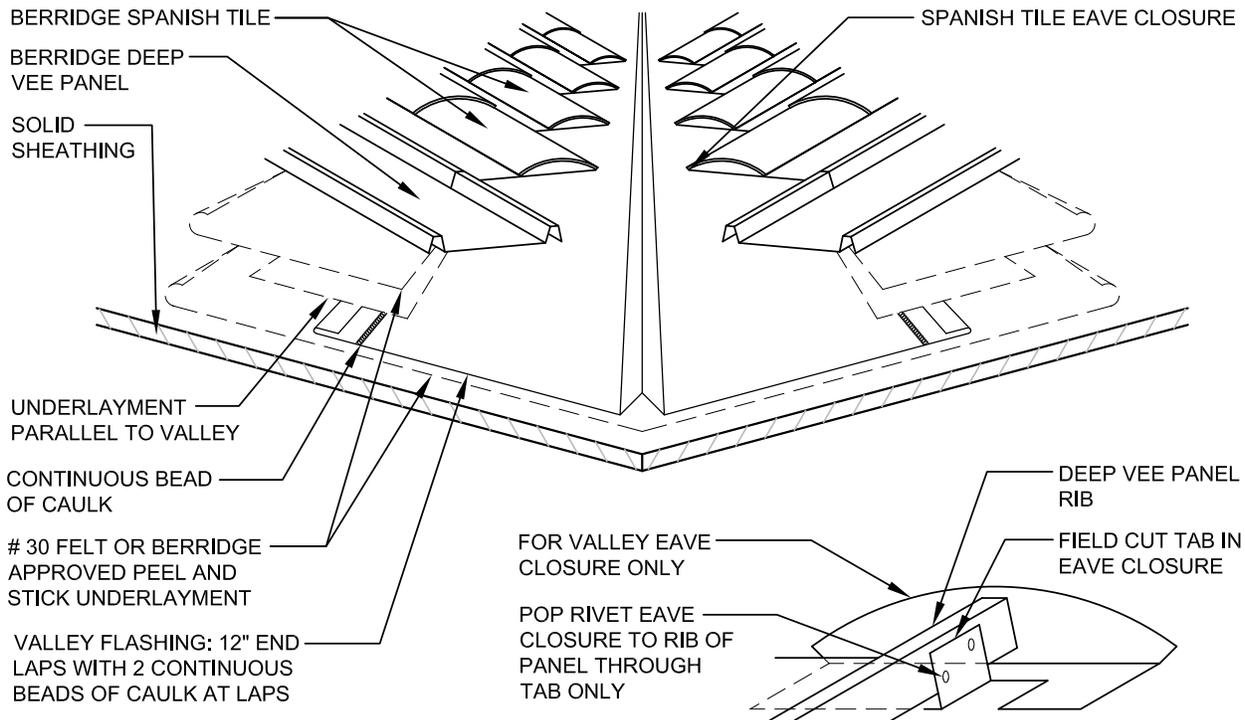
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SPANISH TILE

VALLEY ISOMETRIC DETAIL



Other Roof Systems

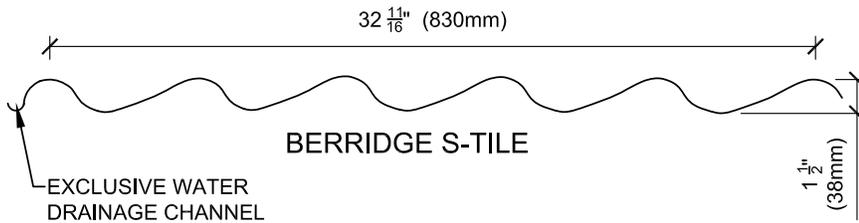
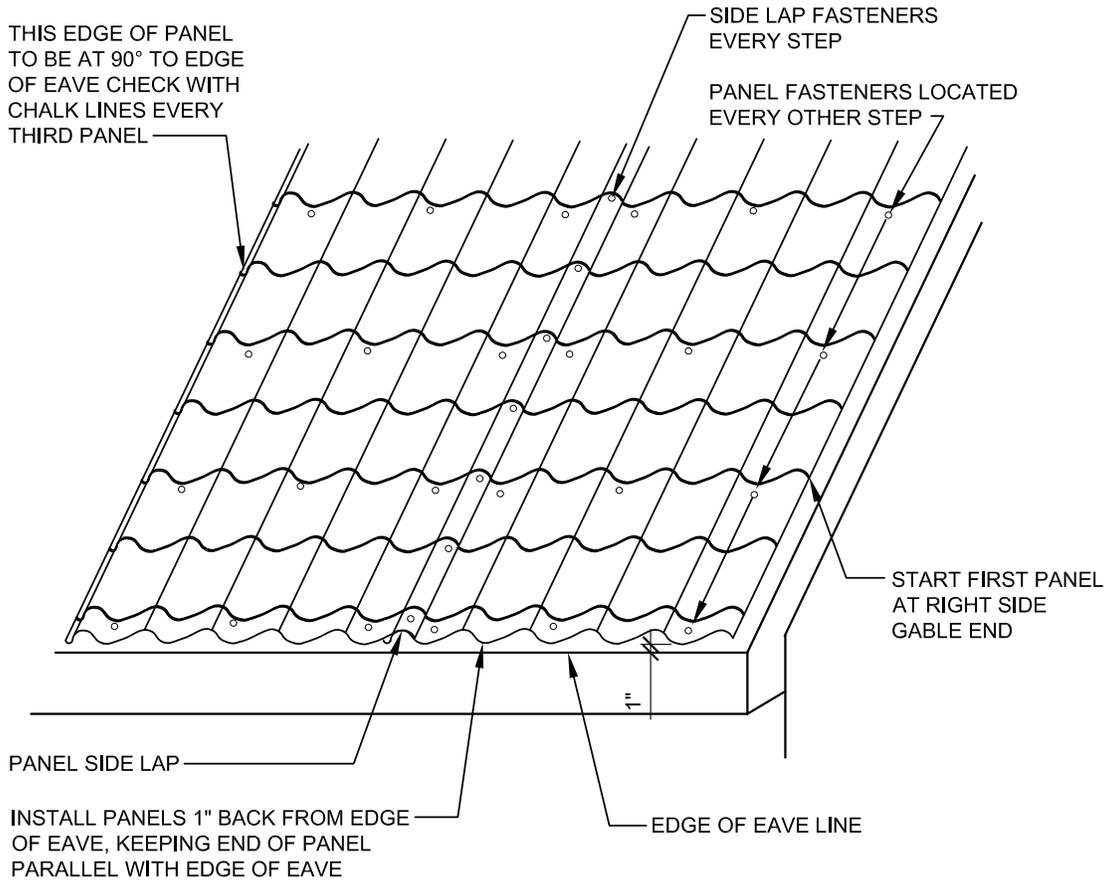
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S-TILE

S-TILE OVERVIEW



PANEL INSTALLATION IS TO BE FROM RIGHT TO LEFT

BERRIDGE S-TILE PANEL SIDE LAP

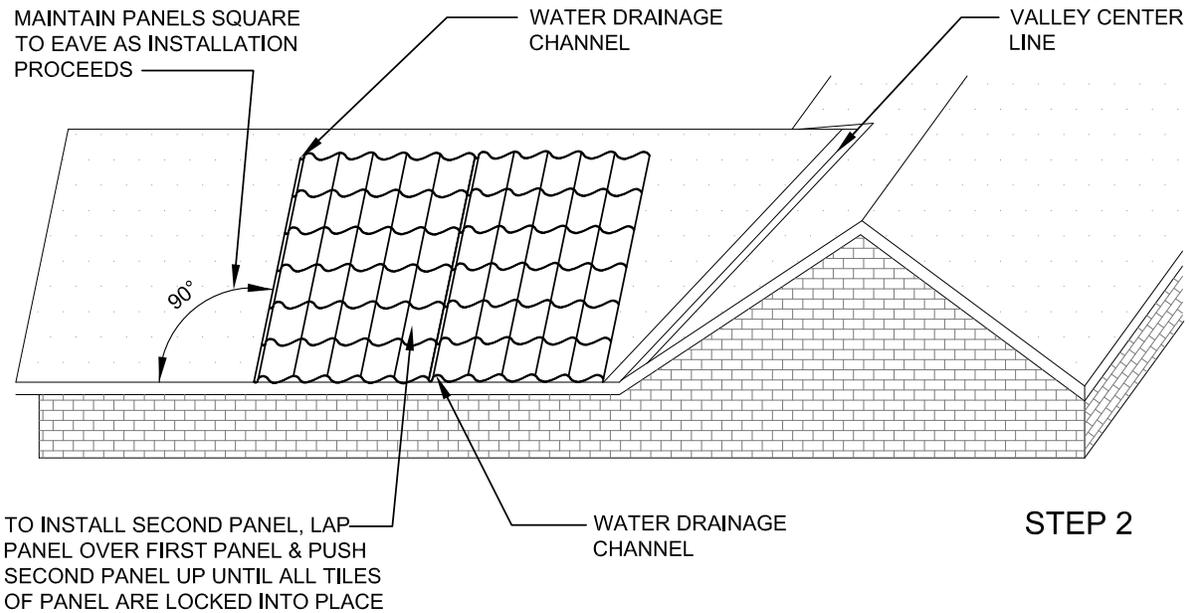
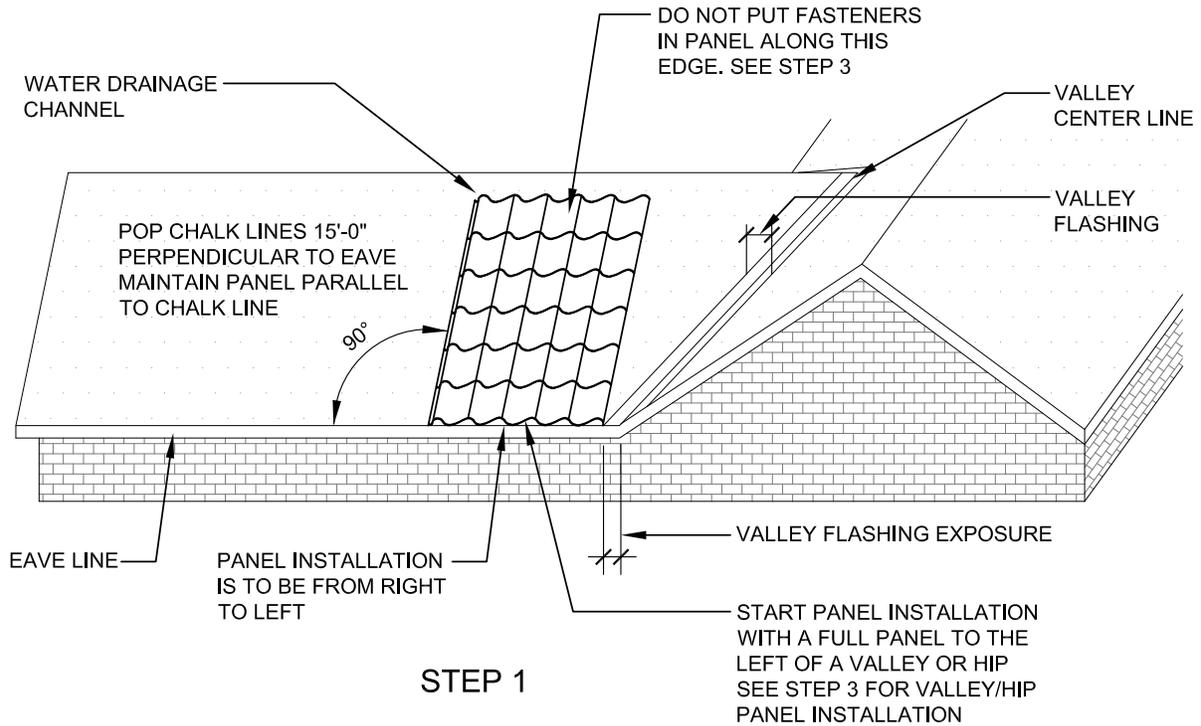
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S-TILE

INSTALLATION OVERVIEW DETAILS



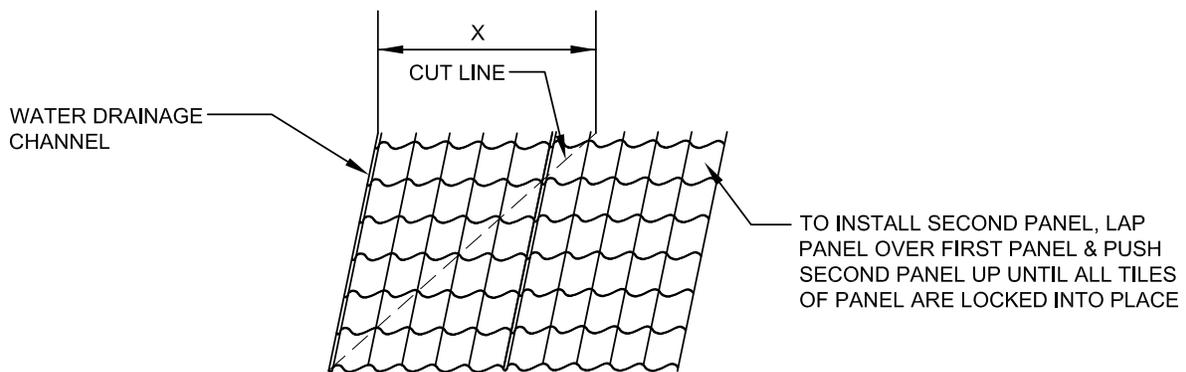
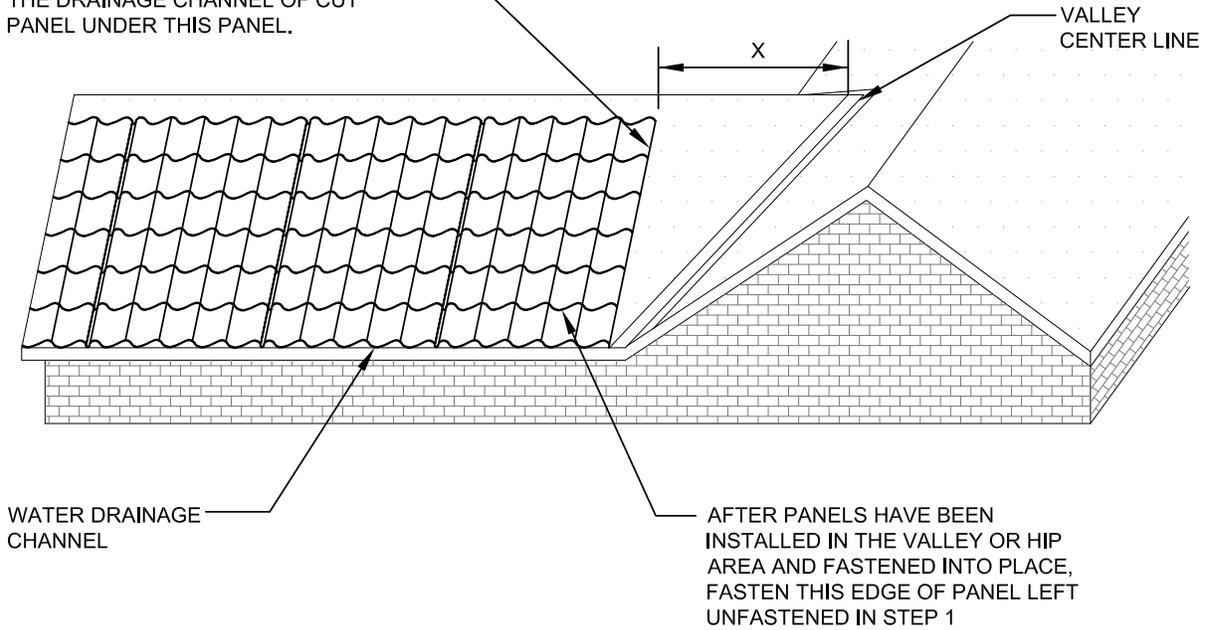
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INSTALLATION OVERVIEW DETAILS

AFTER PANEL HAVE BEEN FIELD CUT TO FIT VALLEY OR HIP LIFT EDGE OF THIS PANEL AND PLACE THE DRAINAGE CHANNEL OF CUT PANEL UNDER THIS PANEL.



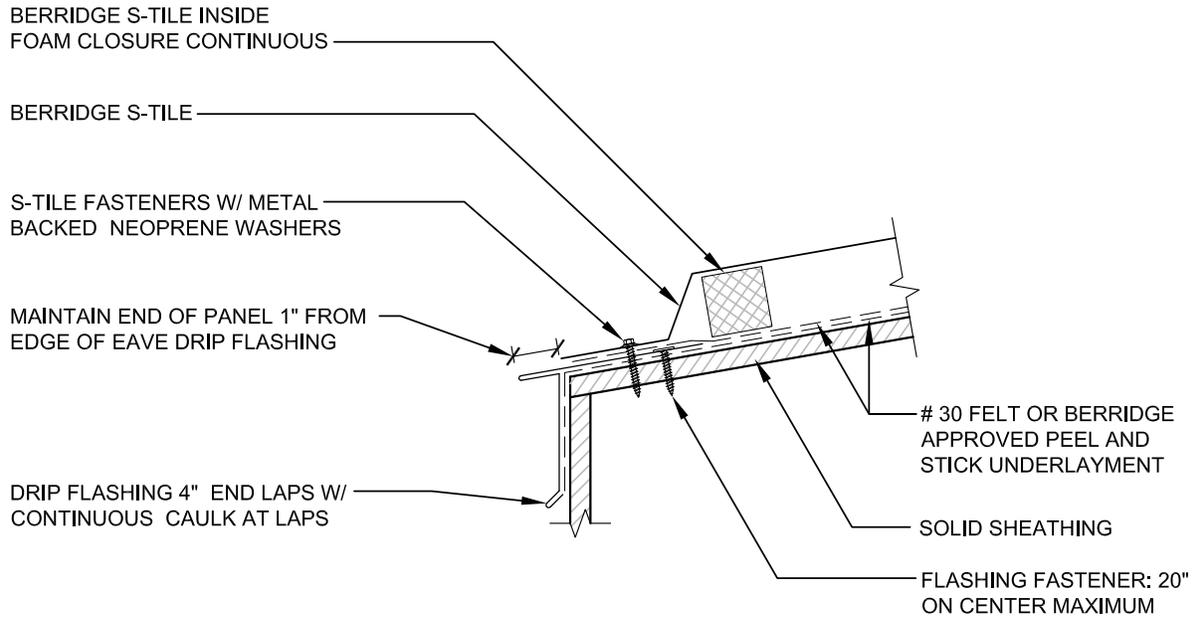
STEP 3

BERRIDGE MANUFACTURING COMPANY

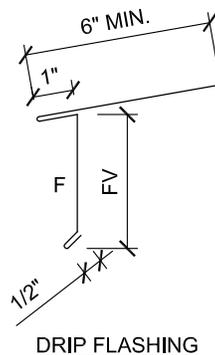
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EAVE DETAILS



1. SEE PAGE 164 FOR LAYOUT OF S-TILE FASTENERS.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



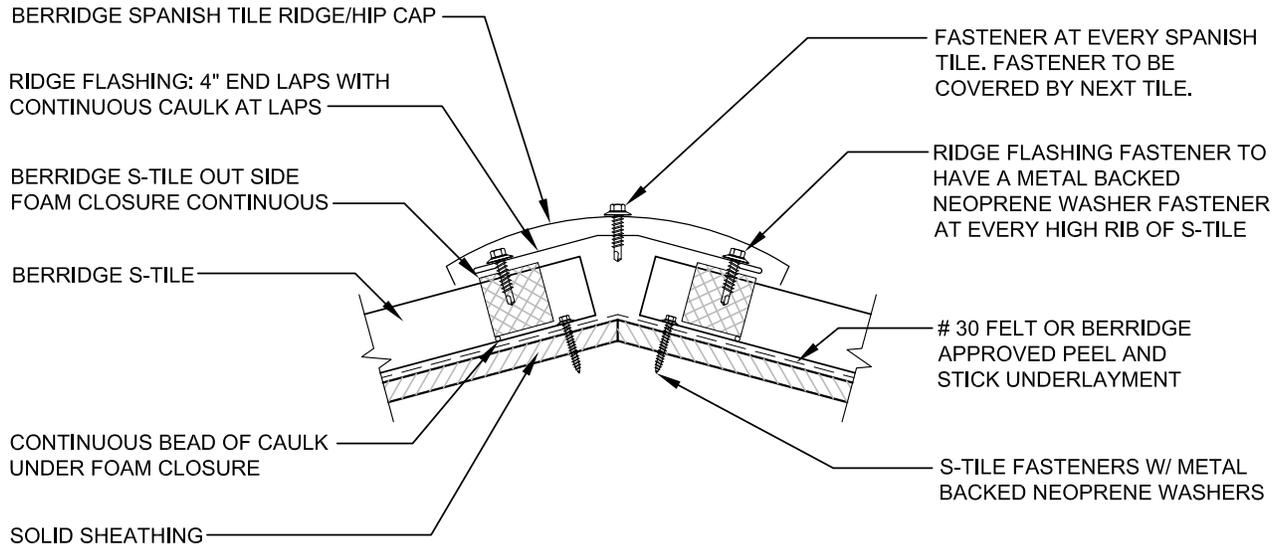
F = FINISH SIDE
FV = FIELD VERIFY

BERRIDGE MANUFACTURING COMPANY

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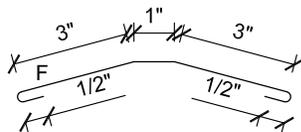
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RIDGE/HIP DETAIL



1. SEE PAGE 164 FOR LAYOUT OF S-TILE FASTENERS.
2. AT THE HIP AN OUT SIDE 45° LEFT HAND AND RIGHT HAND FOAM CLOSURES WILL BE REQUIRED.
3. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
4. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

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RIDGE FLASHING



BERRIDGE SPANISH
TILE RIDGE/HIP CAP

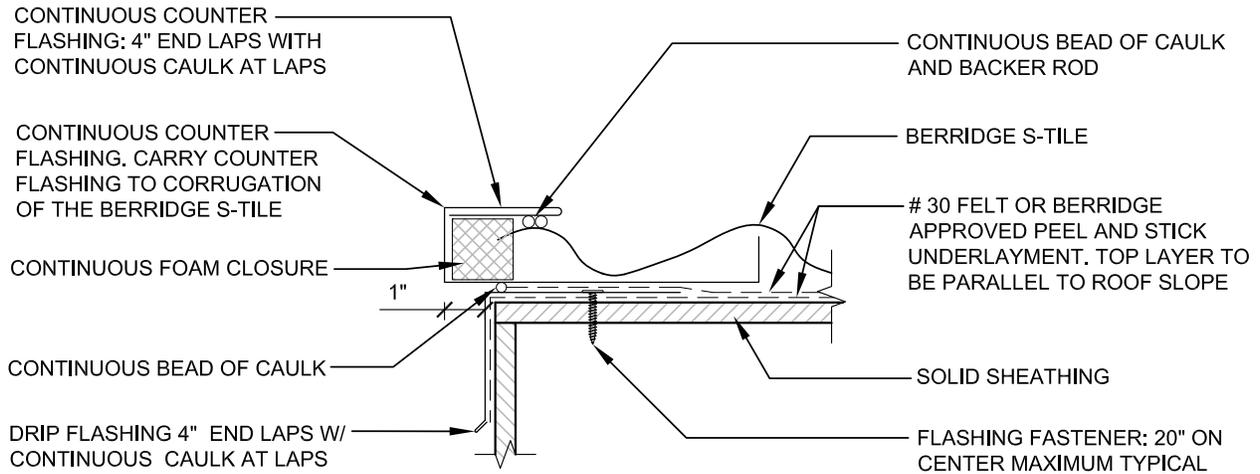
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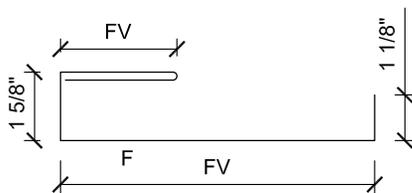
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S-TILE

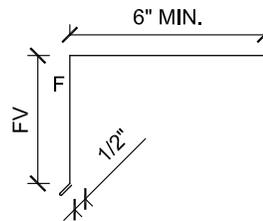
GABLE DETAIL



1. SEE PAGE 164 FOR LAYOUT OF S-TILE FASTENERS.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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DRIP FLASHING



COUNTER FLASHING

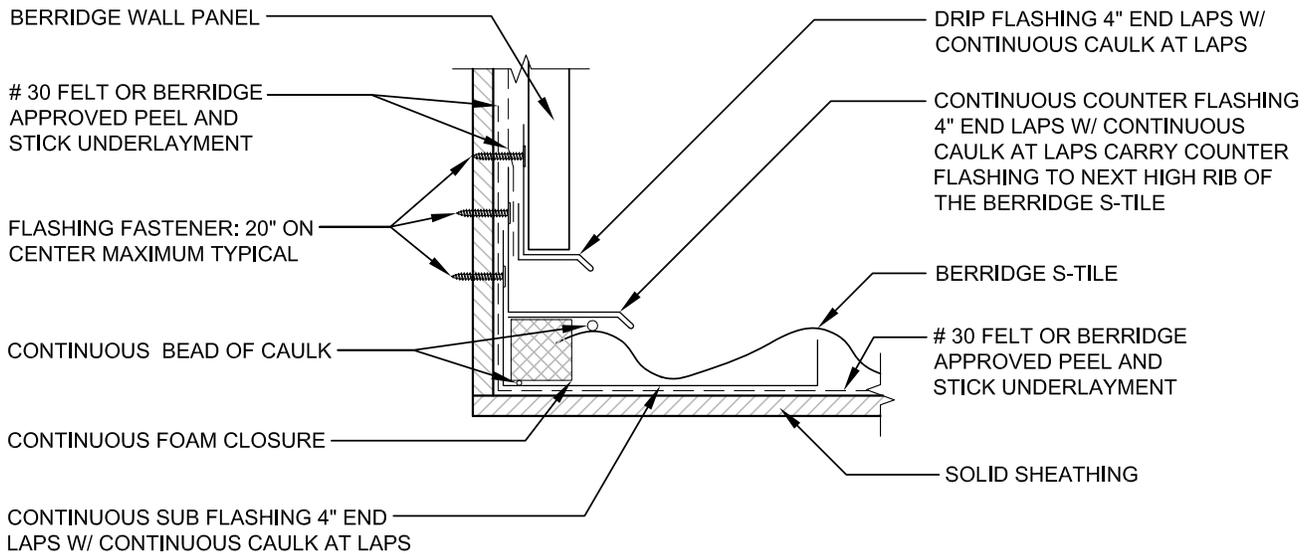
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FV = FIELD VERIFY

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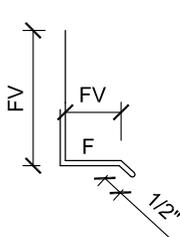
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RAKE WALL DETAIL

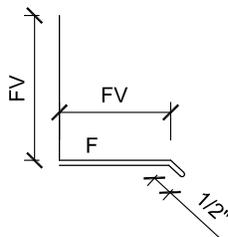


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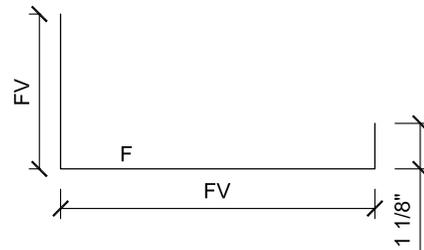
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DRIP FLASHING



COUNTER FLASHING



SUB FLASHING

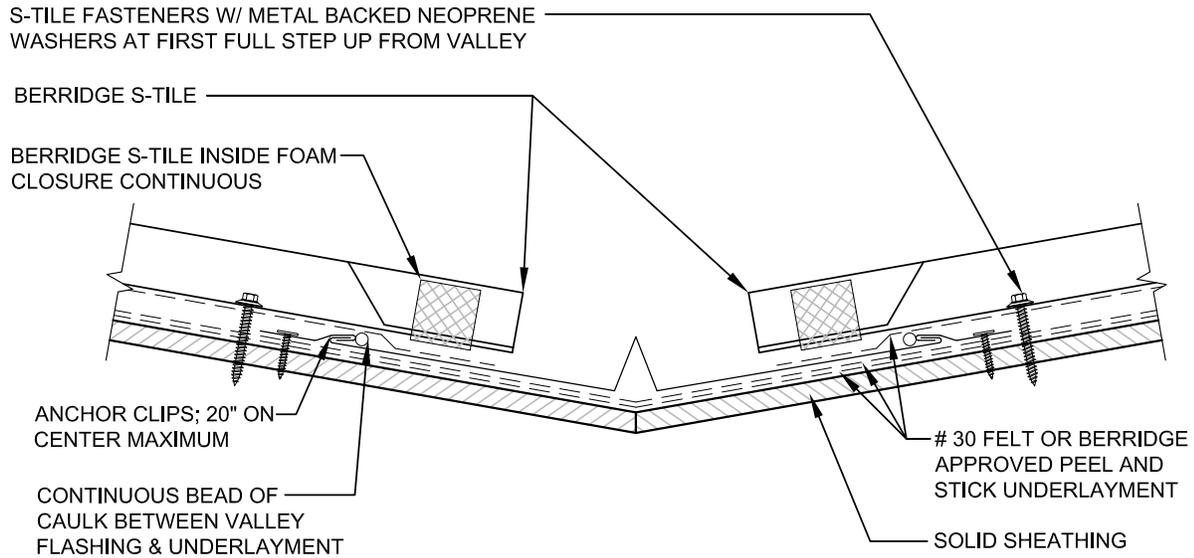
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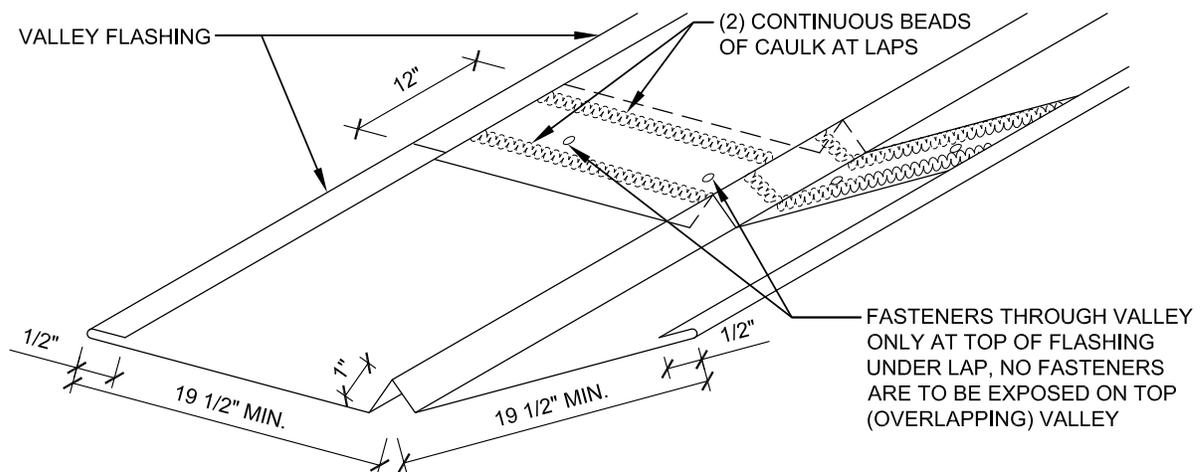
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S-TILE

VALLEY DETAIL



1. SEE PAGE 164 FOR LAYOUT OF S-TILE FASTENERS.
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3. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

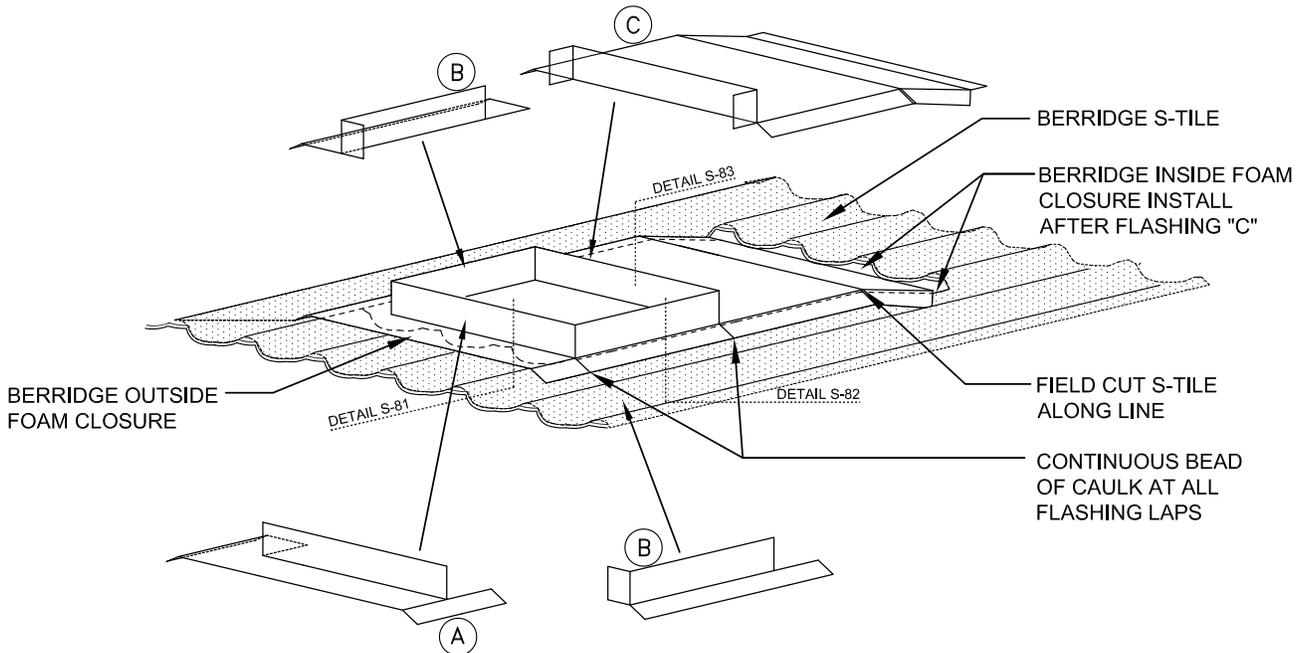


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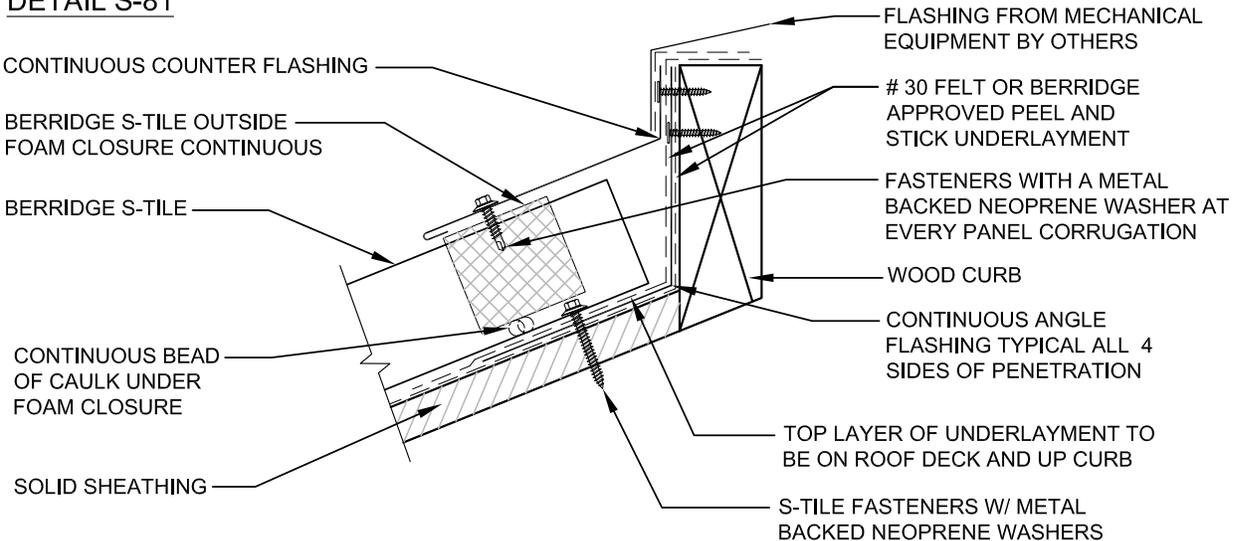
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ROOF PENETRATION DETAILS



FIELD CUT PANEL ALONG DOTTED LINE & INSTALL PANEL. INSTALL FLASHING "A" FIRST ALONG WITH FOAM CLOSURE. INSTALL FLASHING "B" SECOND, CAULK ALL FLASHING LAPS. INSTALL FLASHING "C" LAST, THIS FLASHING IS TO BE SLIPPED UNDER THE S-TILE & UNDERLAYMENT AS SHOWN IN DETAIL S-83 BEFORE THE FOAM CLOSURE OR FASTENERS ARE INSTALLED. SEE ALSO DETAILS S-81 & S-82 FOR UNDERLAYMENT AND SUBFLASHING.

DETAIL S-81



1. SEE PAGE 164 FOR LAYOUT OF S-TILE FASTENERS.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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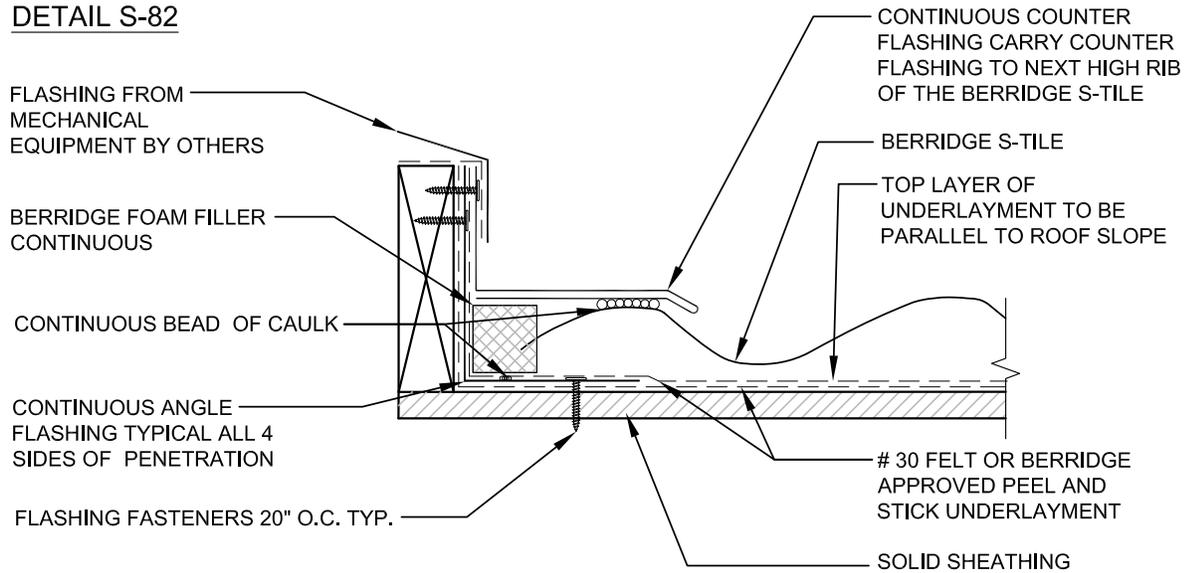
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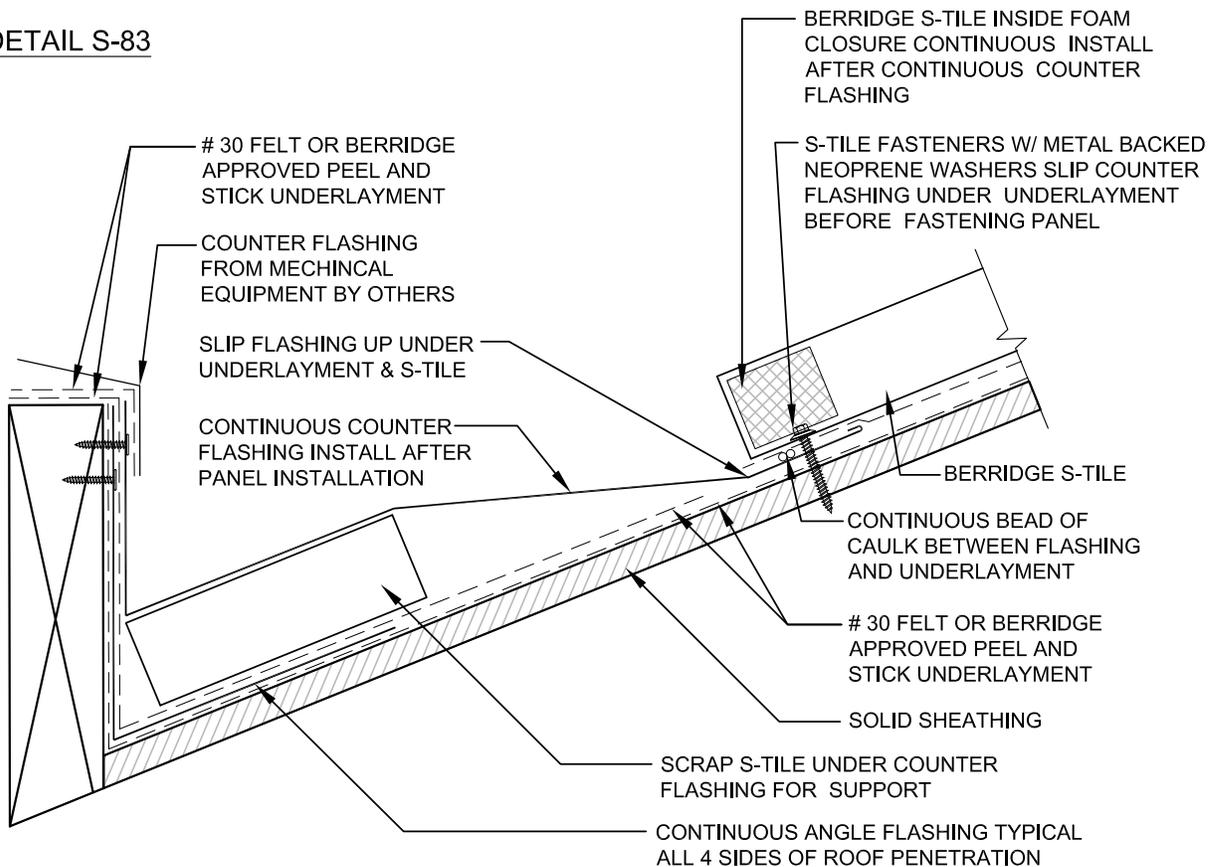
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ROOF PENETRATION DETAILS

DETAIL S-82



DETAIL S-83



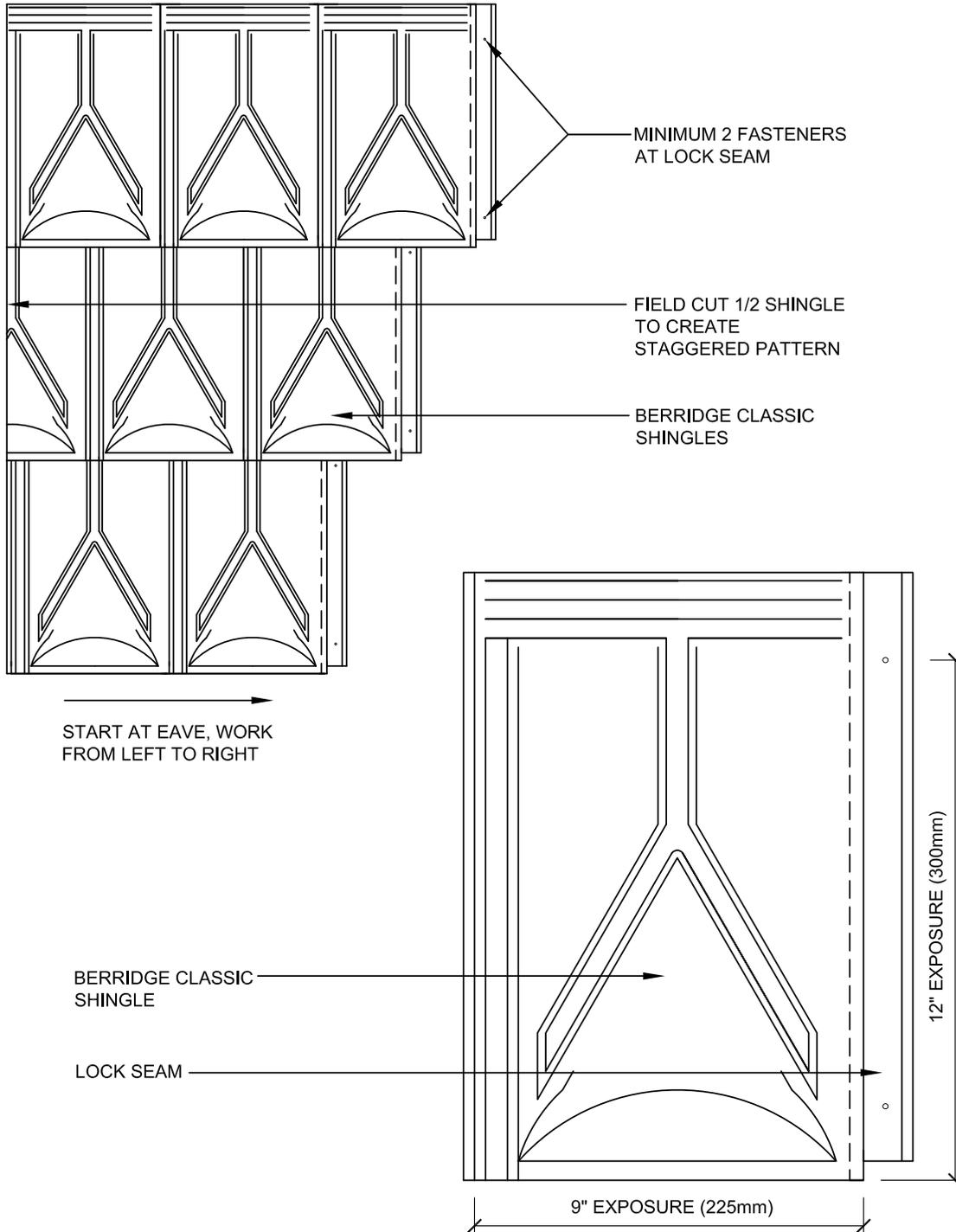
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VICTORIAN & CLASSIC SHINGLES

CLASSIC SHINGLE OVERVIEW



Other Roof Systems

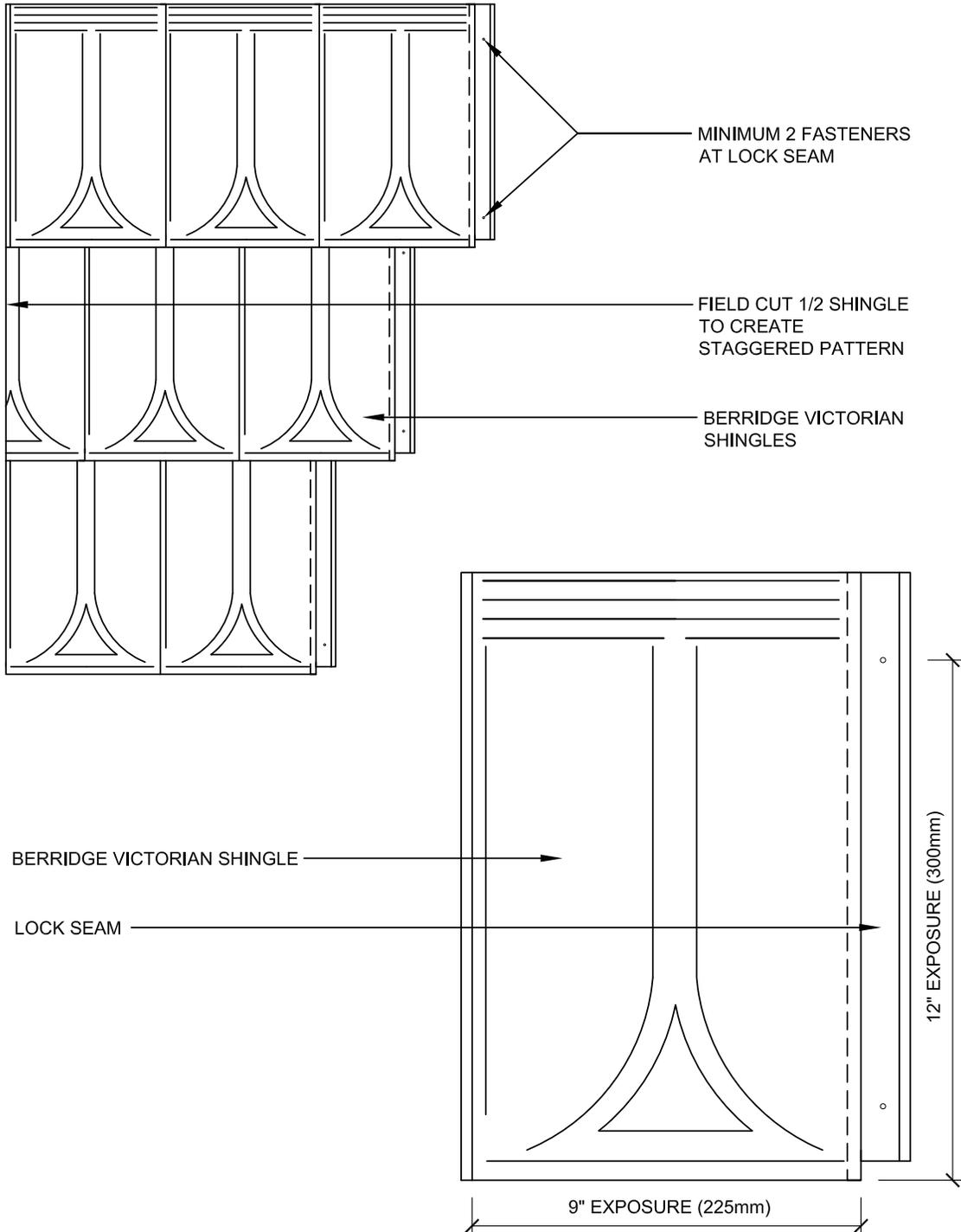
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VICTORIAN & CLASSIC SHINGLES

VICTORIAN SHINGLE OVERVIEW



BERRIDGE MANUFACTURING COMPANY

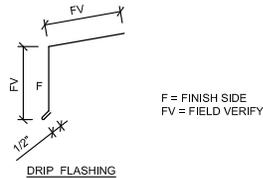
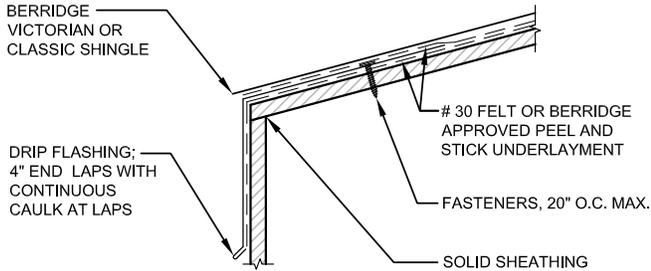
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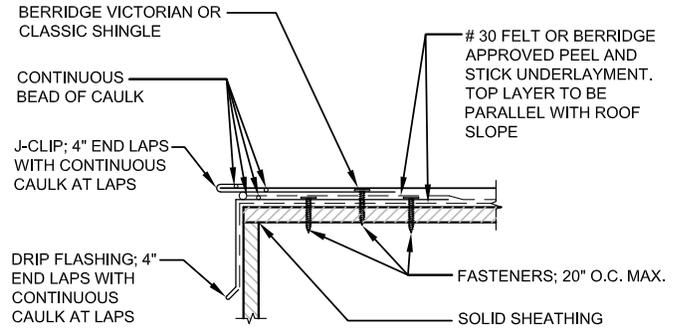
VICTORIAN & CLASSIC SHINGLES

EAVE, GABLE, RIDGE/HIP & VALLEY DETAILS

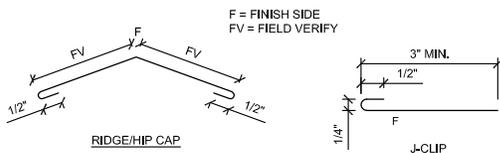
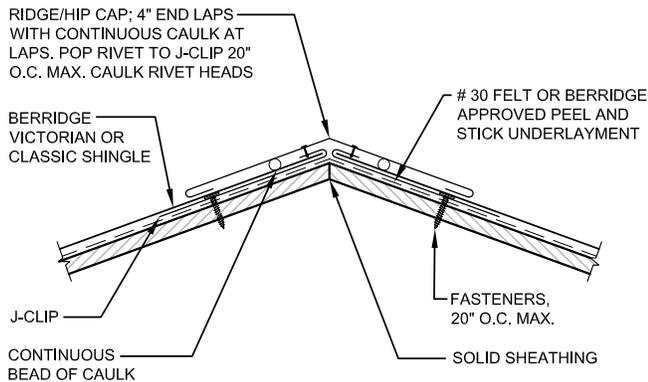
EAVE DETAIL



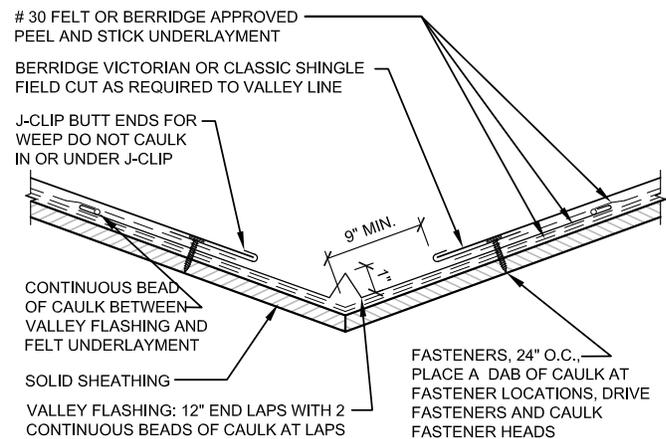
GABLE DETAIL



RIDGE DETAIL

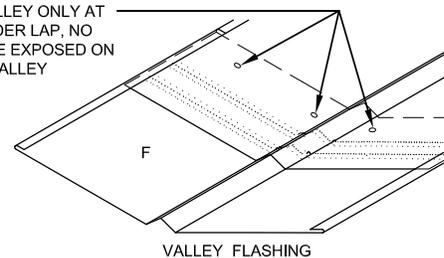


VALLEY DETAIL



FASTEN THROUGH VALLEY ONLY AT TOP OF FLASHING UNDER LAP, NO FASTENERS ARE TO BE EXPOSED ON TOP (OVERLAPPING) VALLEY

2 CONTINUOUS BEADS OF CAULK AT LAPS



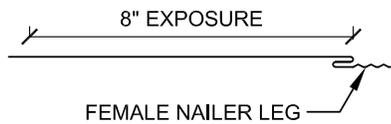
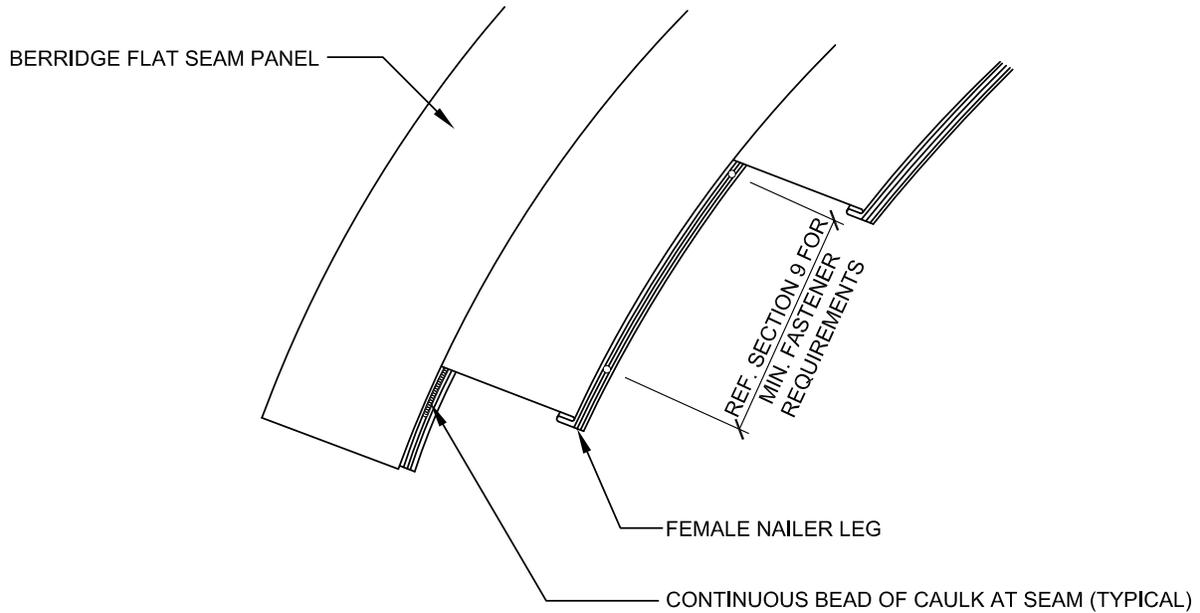
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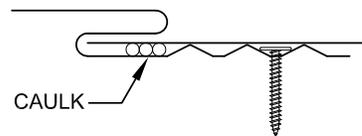
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CURVED FLAT SEAM

CURVED FLAT SEAM OVERVIEW



FLAT SEAM PANEL



SEAM CAULK DETAIL

NOTE: FLAT SEAM PANELS ARE RECOMMENDED FOR CURVED APPLICATIONS ONLY.

NOTE: UNDERLAYMENT REQUIRED FOR CURVED FLAT SEAM, USE A 40 MIL MINIMUM THICKNESS, SELF-ADHERING MEMBRANE. REFER TO BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR LIST OF APPROVED PRODUCTS

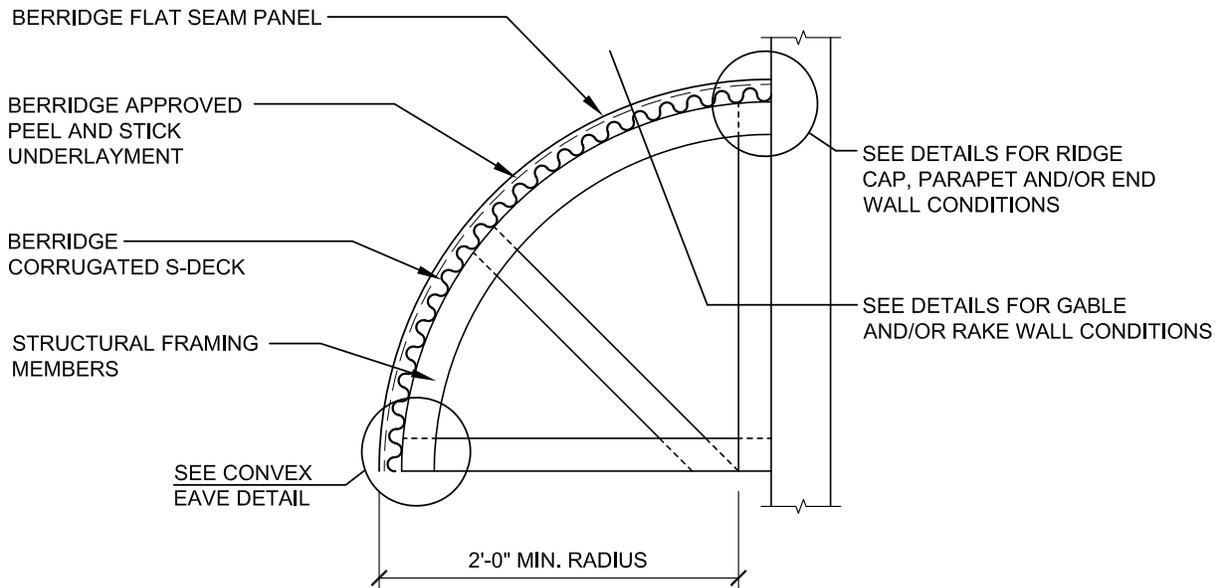
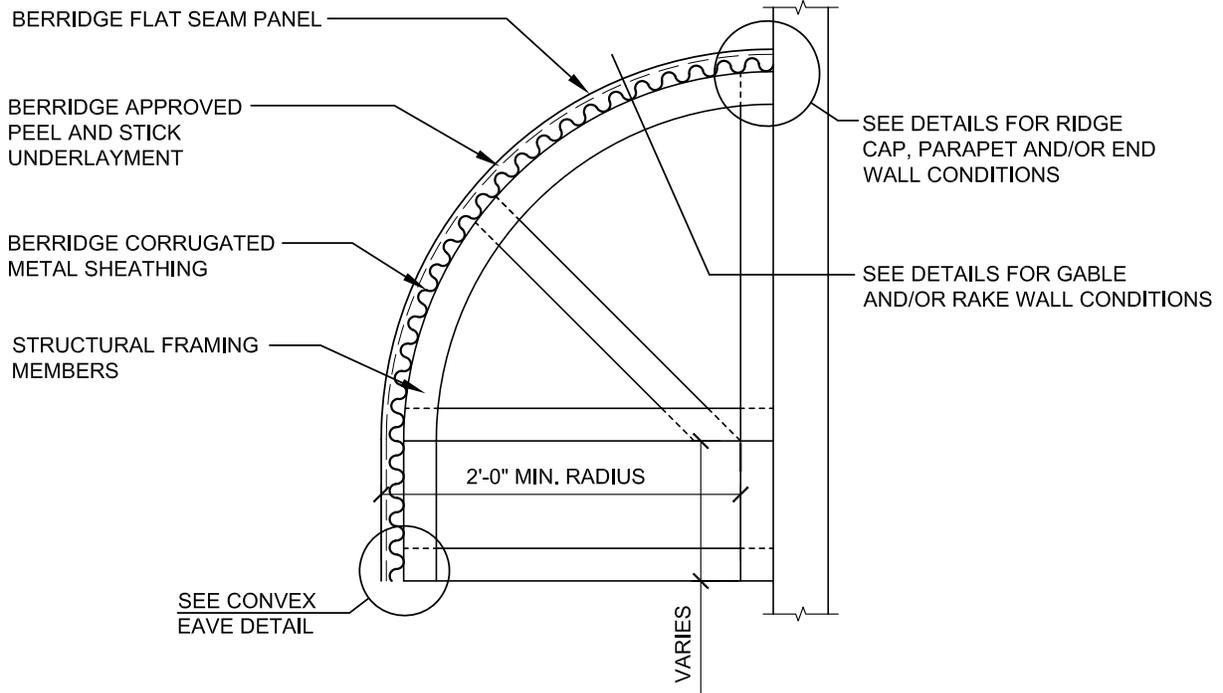
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CURVED FLAT SEAM

CONVEX CANOPY DETAILS



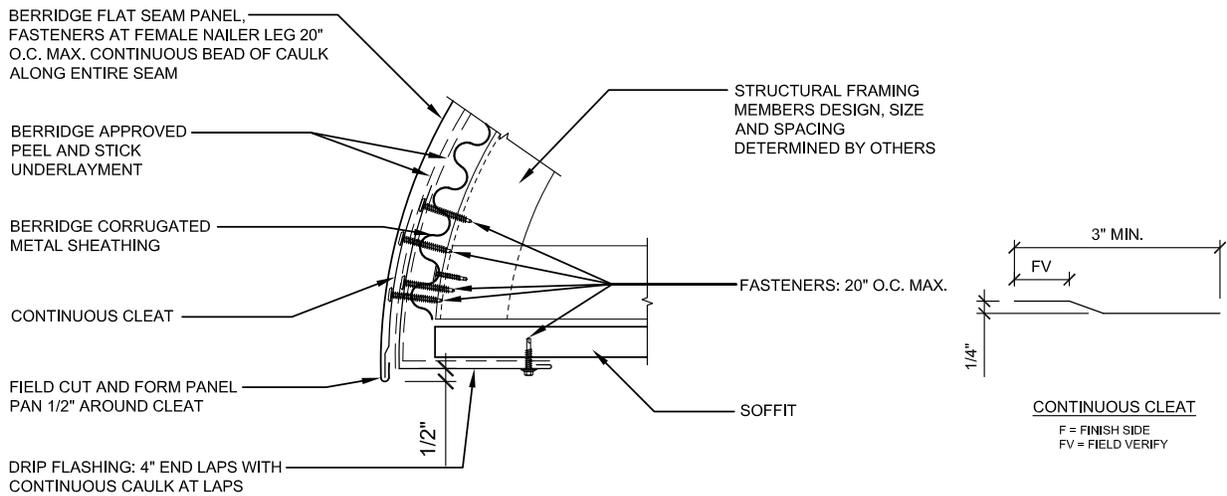
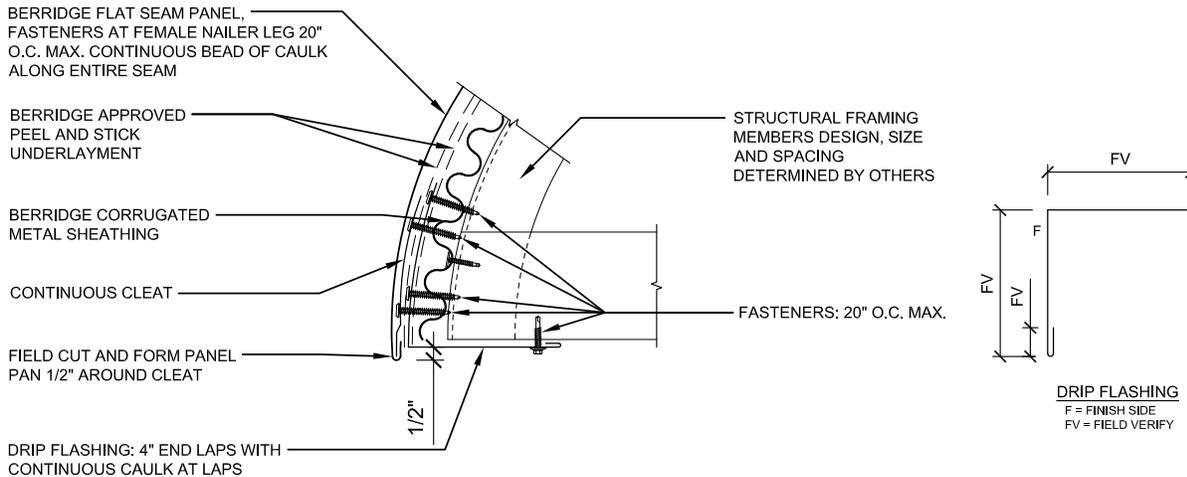
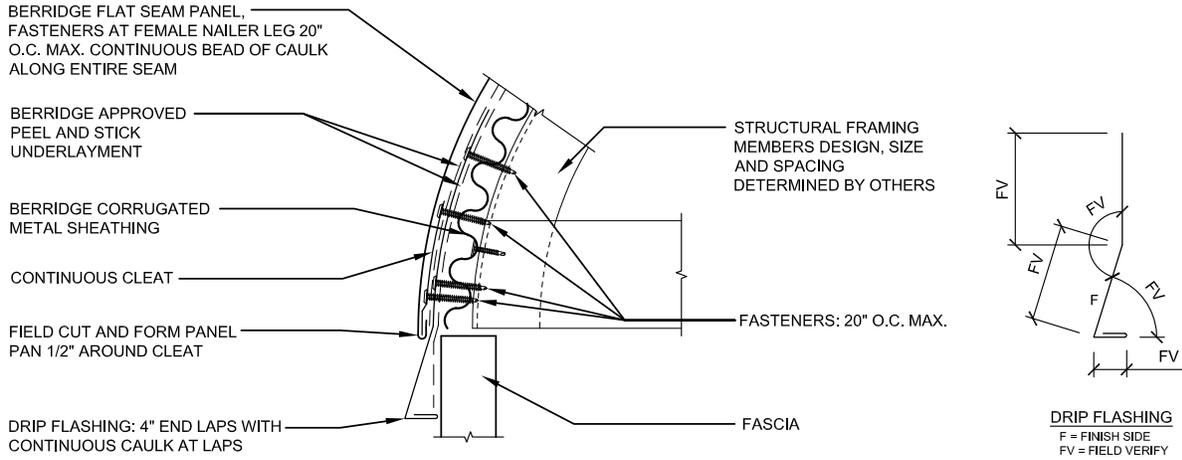
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CURVED FLAT SEAM

CONVEX EAVE DETAILS



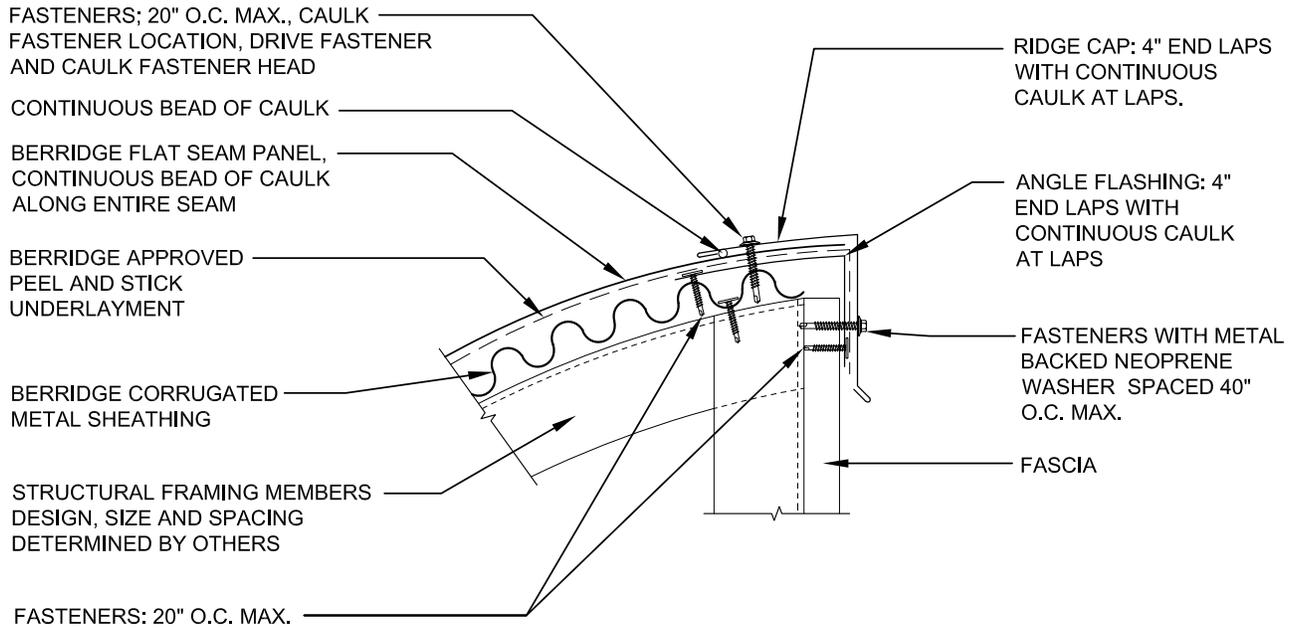
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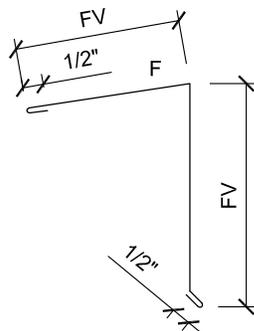
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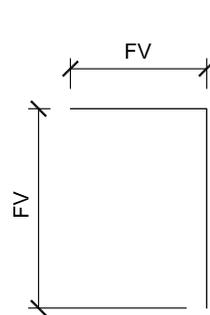
CONVEX RIDGE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. BERRIDGE 16 GA 1-1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.
3. THE DESIGN, SIZING AND SPACING OF FRAMING MEMBER TO BE DETERMINED BY OTHERS.
4. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



RIDGE CAP



ANGLE FLASHING

F = FINISH SIDE
FV = FIELD VERIFY

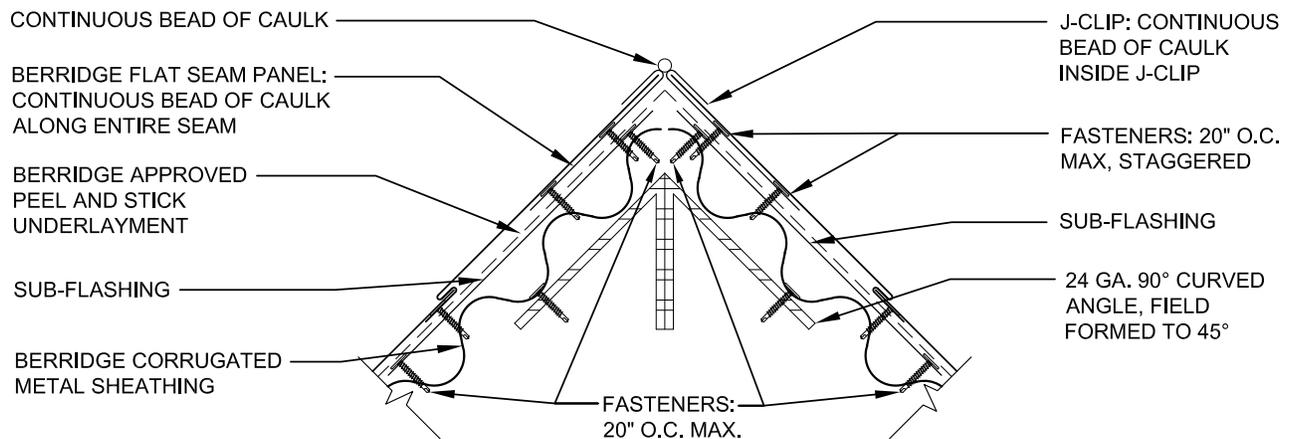
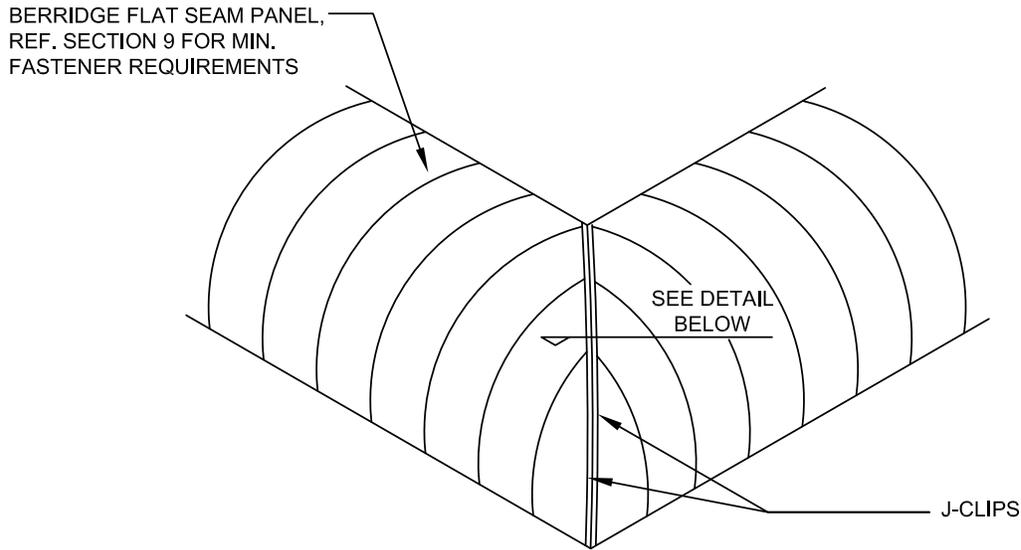
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CURVED FLAT SEAM

CONVEX HIP DETAIL



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THE DESIGN, SIZING, AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.

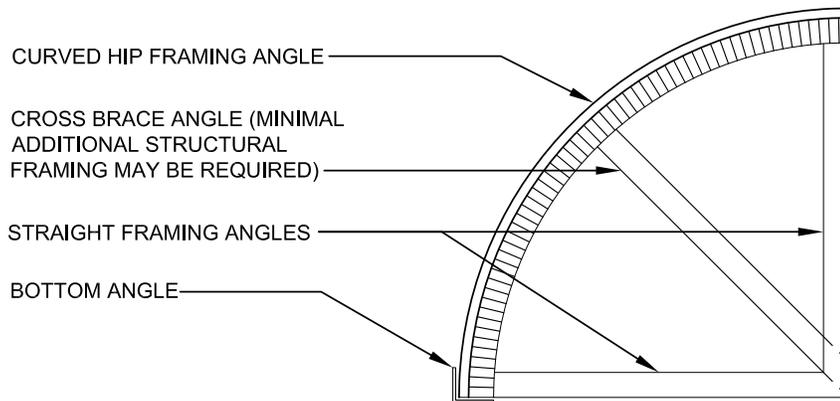
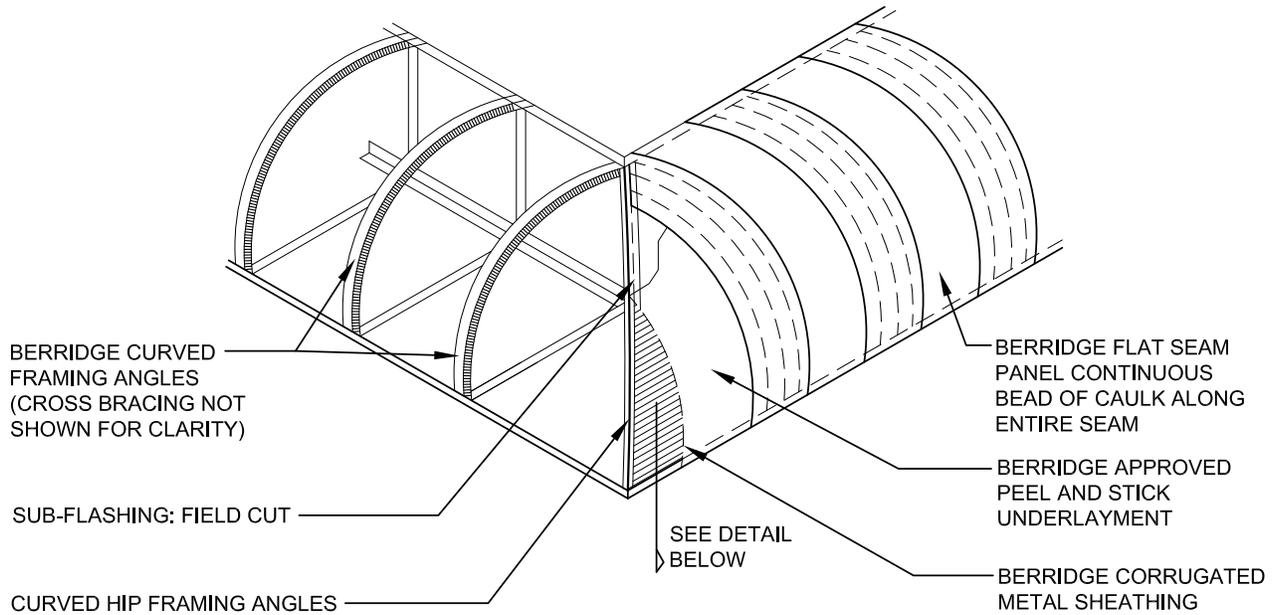
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CURVED FLAT SEAM

CONVEX HIP ISOMETRIC & SECTION DETAIL



BERRIDGE 16 GAUGE 1 1/2" x 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.

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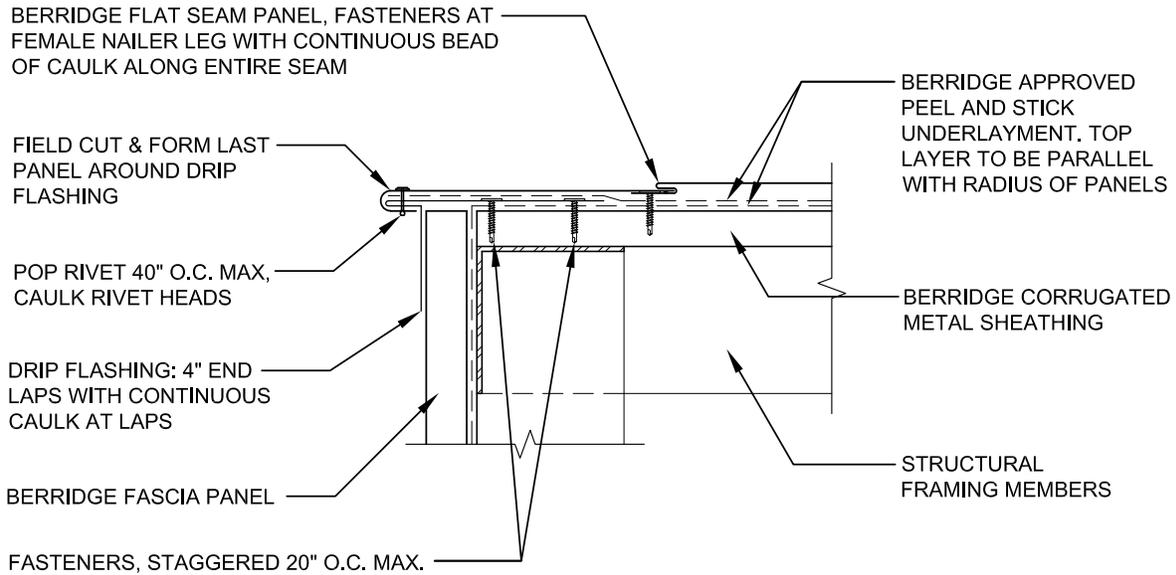
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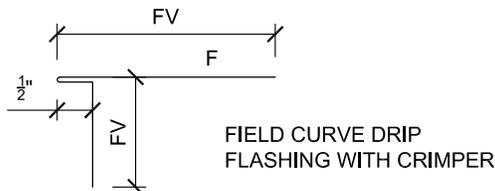
CURVED FLAT SEAM

CONVEX GABLE DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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F = FINISH SIDE
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DRIP FLASHING

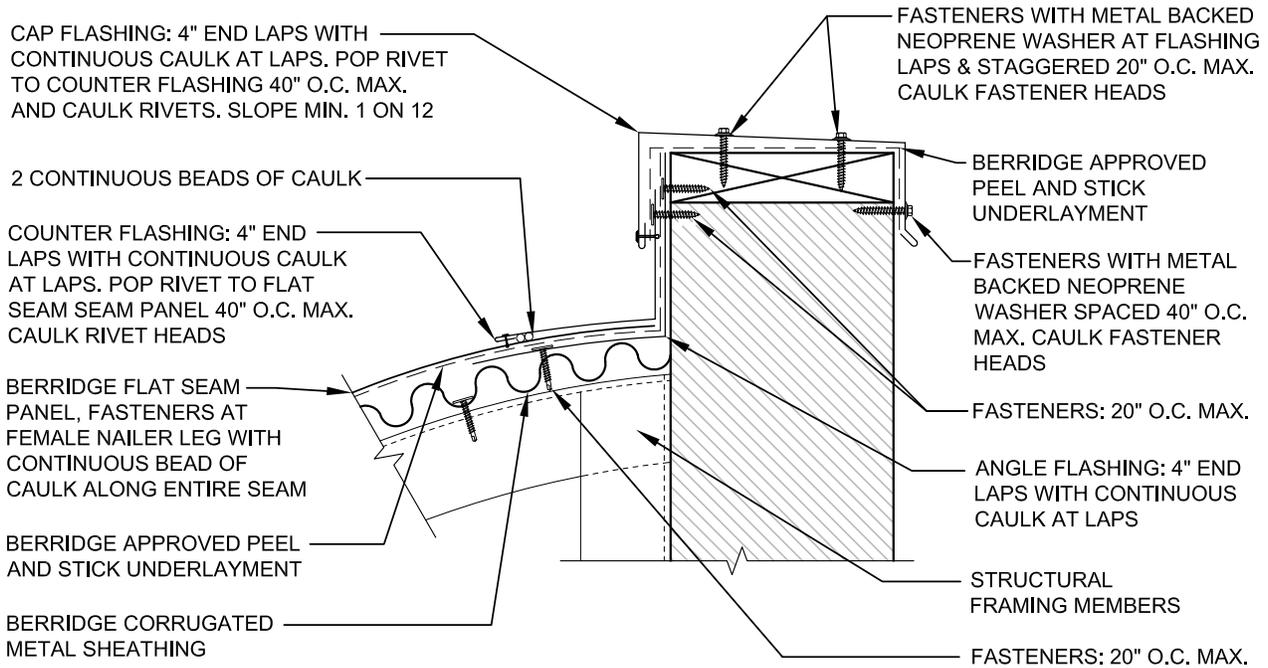
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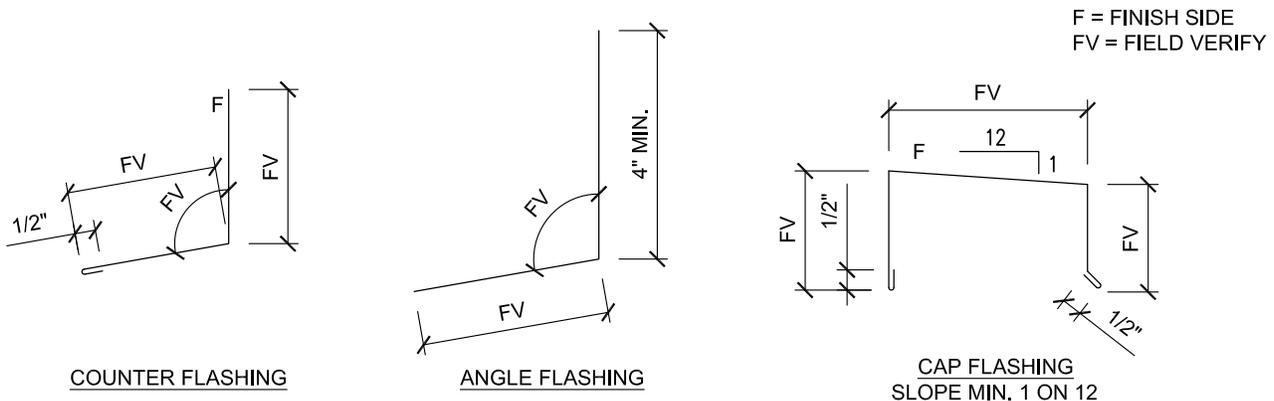
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CURVED FLAT SEAM

CONVEX PARAPET DETAIL



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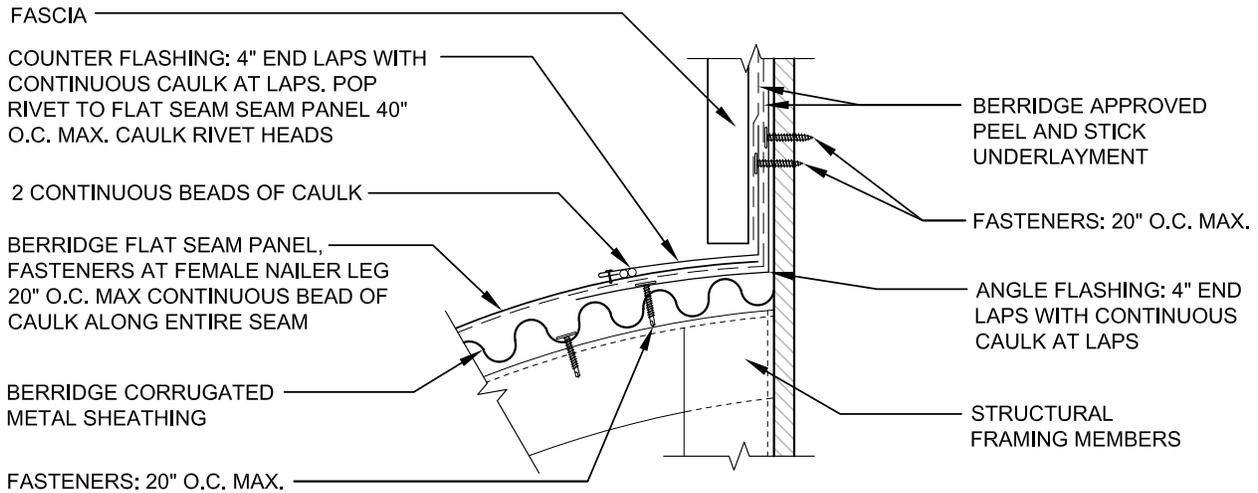
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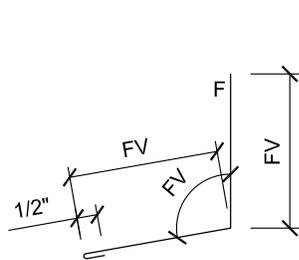
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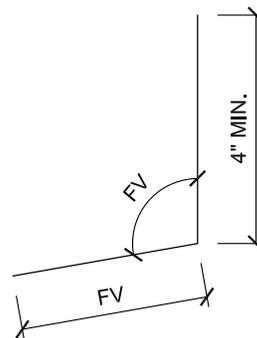
CONVEX HEAD WALL DETAIL WITH FASCIA PANEL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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COUNTER FLASHING



ANGLE FLASHING

F = FINISH SIDE
FV = FIELD VERIFY

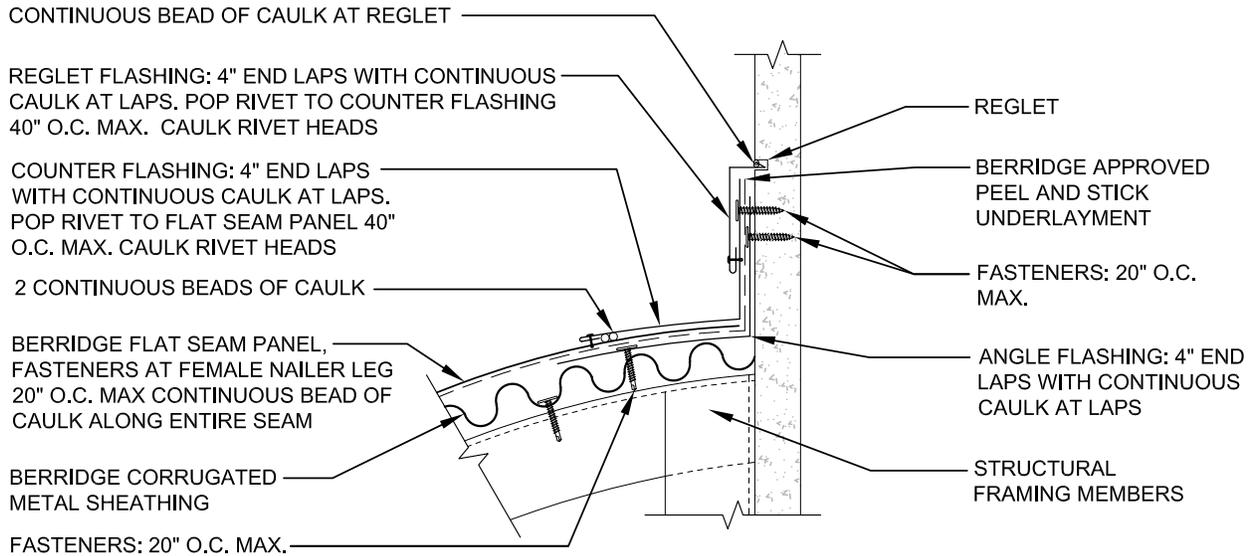
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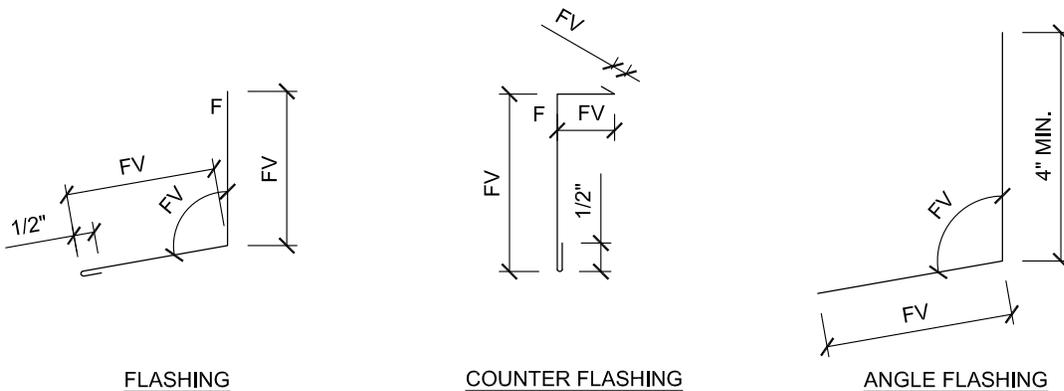
CURVED FLAT SEAM

CONVEX HEAD WALL DETAIL WITH REGLET



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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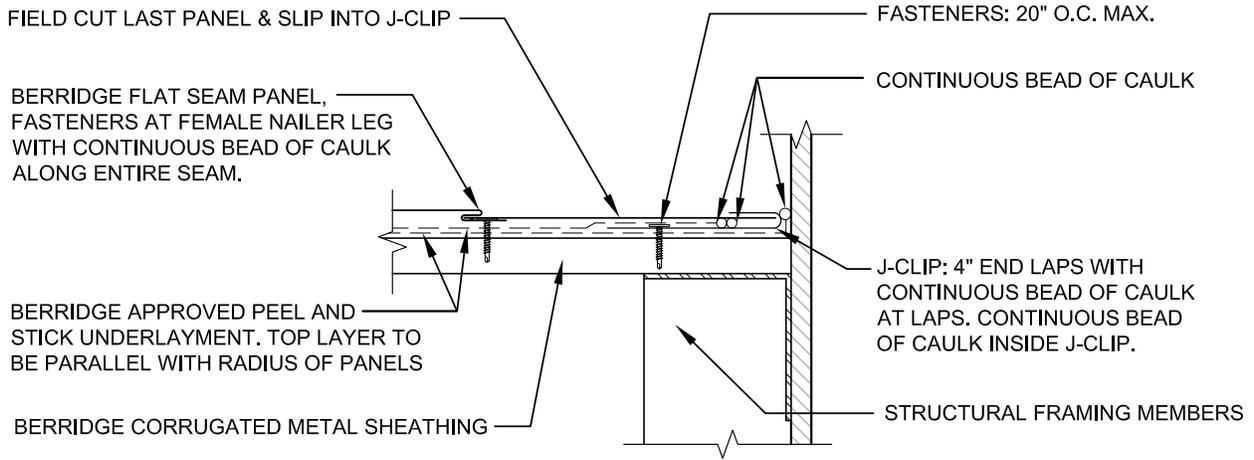
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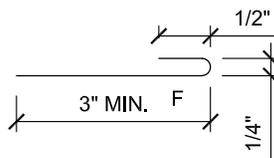
CURVED FLAT SEAM

CONVEX RAKE WALL DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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J-CLIP

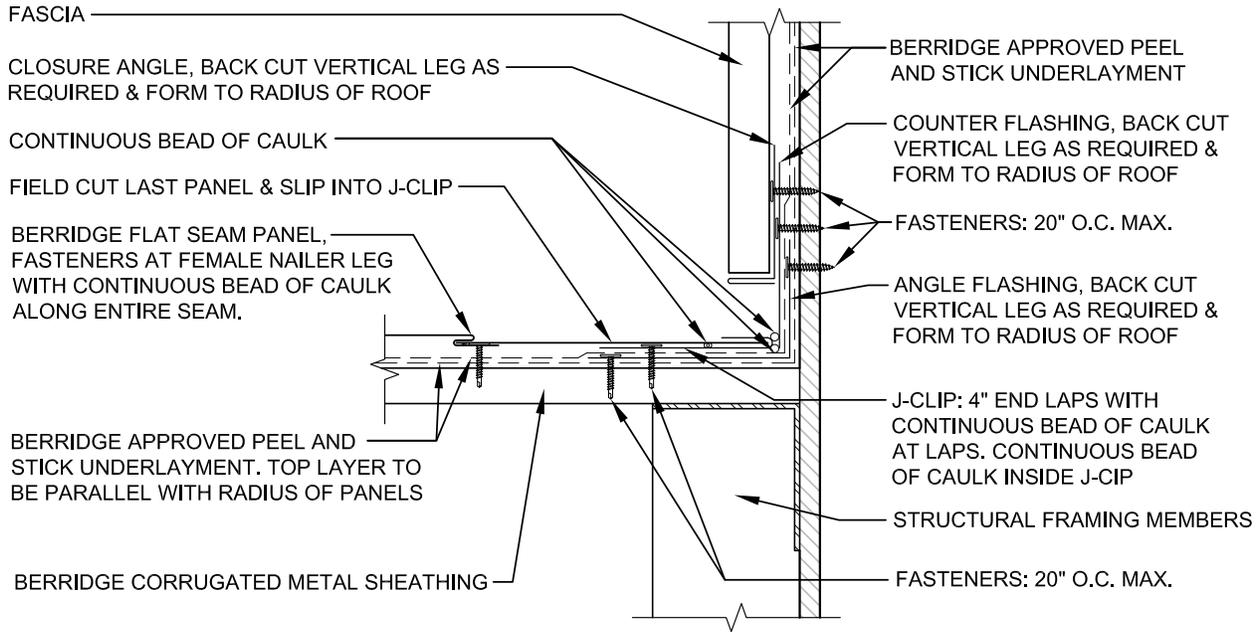
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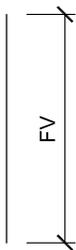
CURVED FLAT SEAM

CONVEX RAKE WALL DETAIL WITH FASCIA PANEL

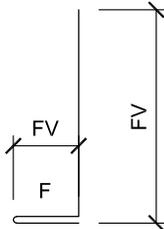


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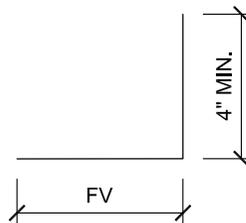
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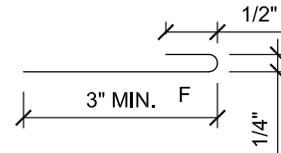
COUNTER FLASHING



CLOSURE ANGLE



ANGLE FLASHING



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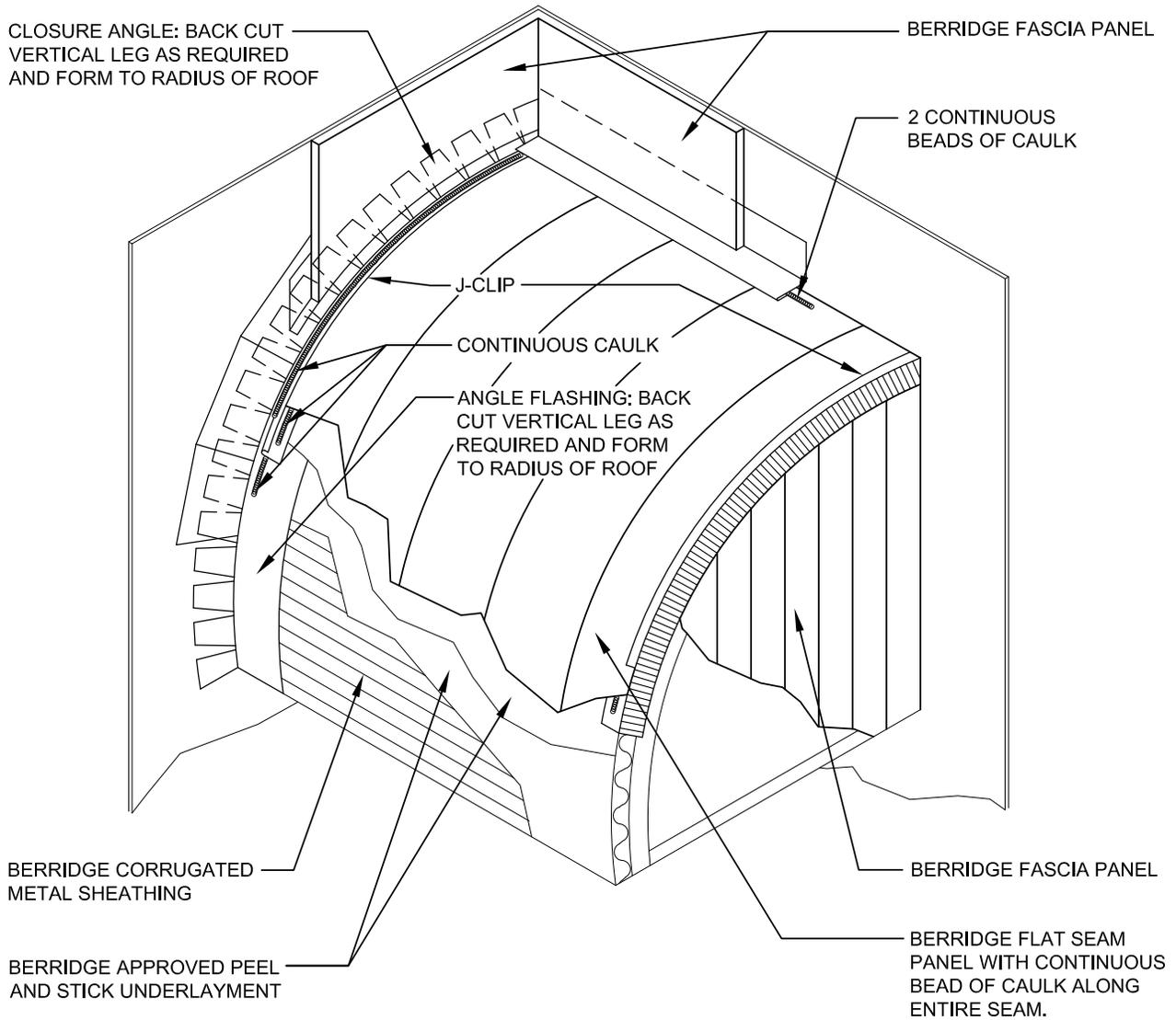
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CURVED FLAT SEAM

CONVEX CANOPY ISOMETRIC DETAIL



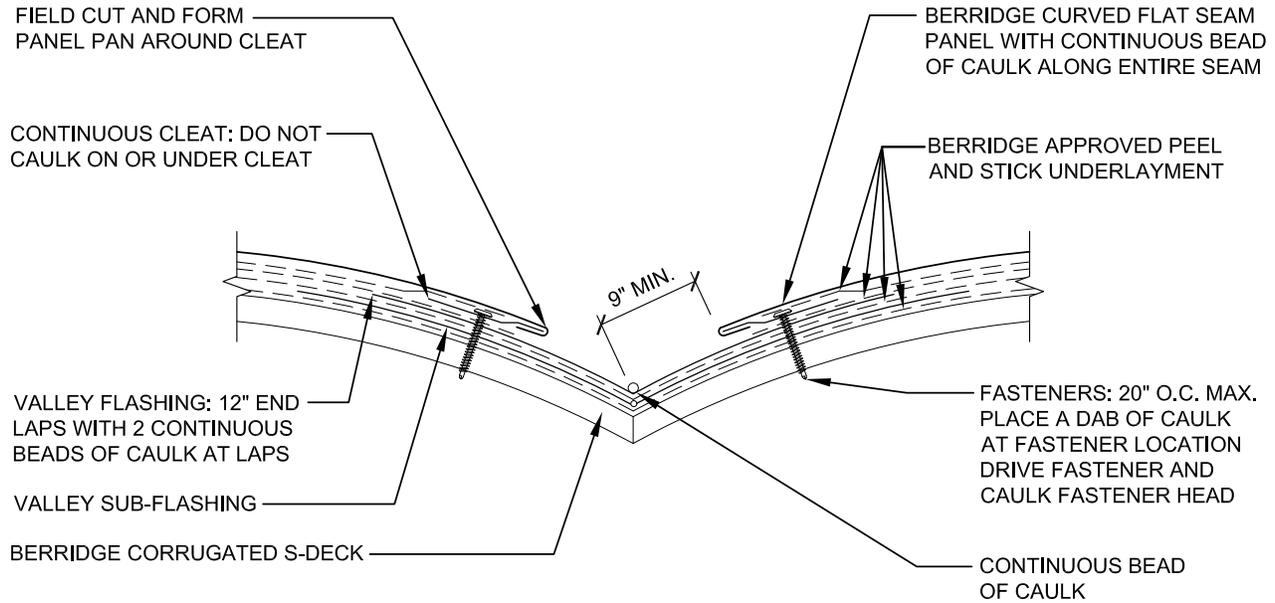
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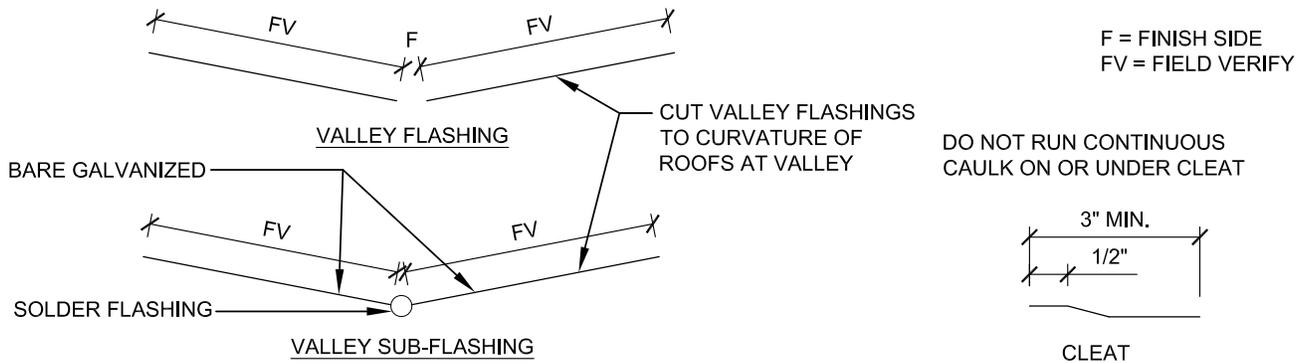
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CURVED FLAT SEAM

CONVEX VALLEY DETAIL



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SECTION 5

FASCIA WALL & SOFFIT SYSTEMS

- HR-16 WALL PANEL
- HC-16 WALL PANEL
- HS-8 & HS-12 WALL PANELS
- FLUSH SEAM PANEL
- B-6 PANEL
- VEE-PANEL & VENTED VEE-PANEL
- FW-10 & FW-12 PANEL
- THIN-LINE PANEL
- L-PANEL
- FASCIA, WALL & SOFFIT DETAILS
- FLUTED FASCIA PANEL
- FISH SCALE SHINGLE

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SECTION 5 FASCIA, WALL & SOFFIT SYSTEMS

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SECTION 5 FASCIA, WALL & SOFFIT SYSTEMS

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions.

Berridge Manufacturing Company shall be held harmless from any and all claims arising from lack of watertightness as a result of following these recommended details. Ensuring watertightness on any given project is the function of the installer. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements and assure adequate watertightness.

The installer can virtually assure watertightness if these details have been properly adapted, adequate laps have been provided, correct type of underlayment and sealant used, all joints adequately caulked and professional workmanship employed.

Should a watertightness warranty be required on a specific project, please refer to the procedures outlined in the “Design Guide” section of this manual. These procedures must be adhered to in order for Berridge to issue any type of watertightness warranty.

NOTES

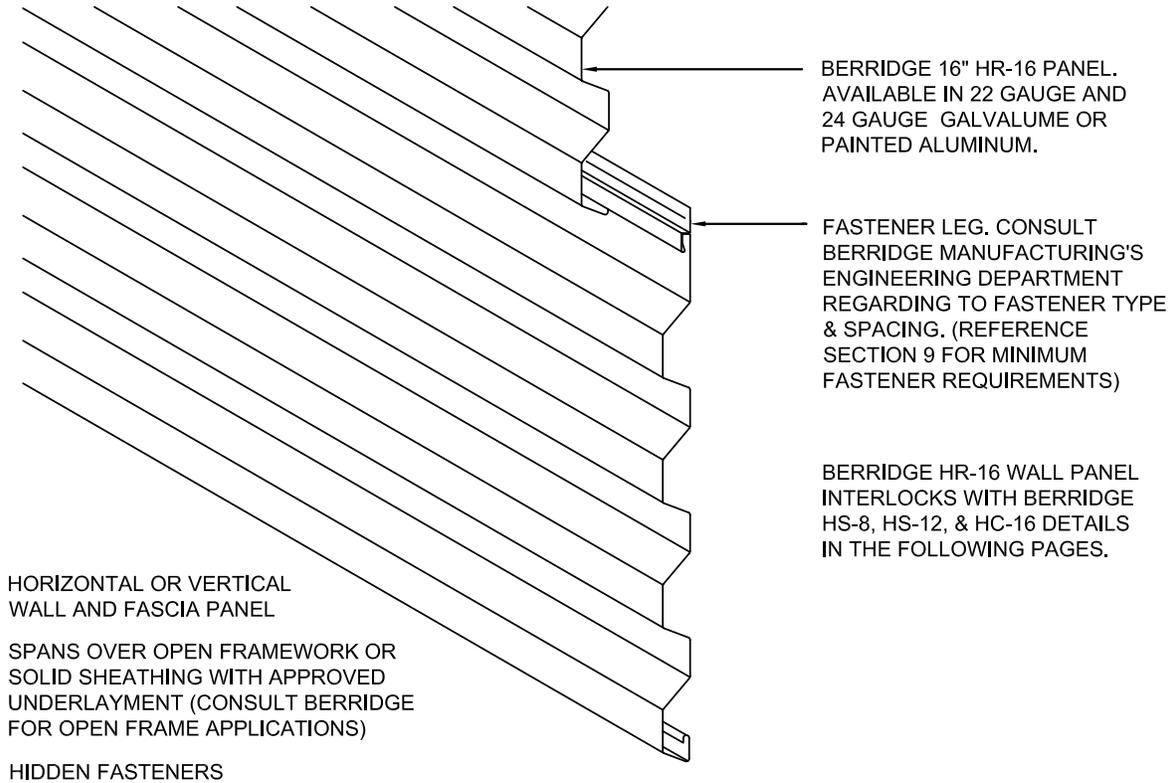
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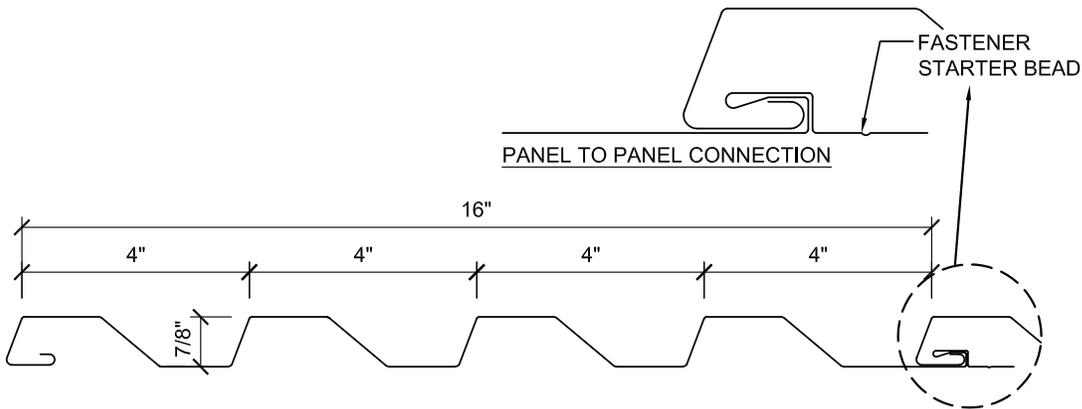
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HR-16 PANEL

HR-16 PANEL OVERVIEW



16" HR-16 PANEL SECTION



16" HR-16 PANEL SYSTEM ASSEMBLY

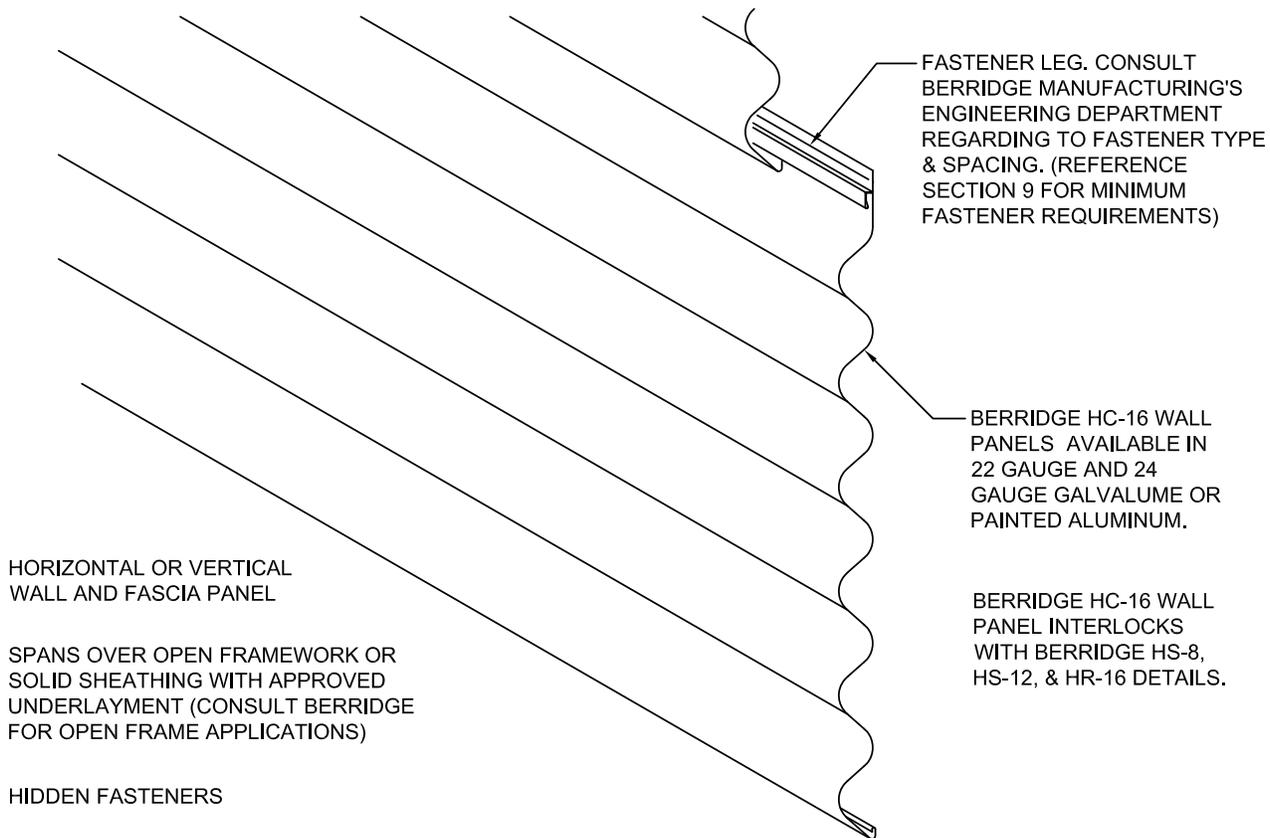
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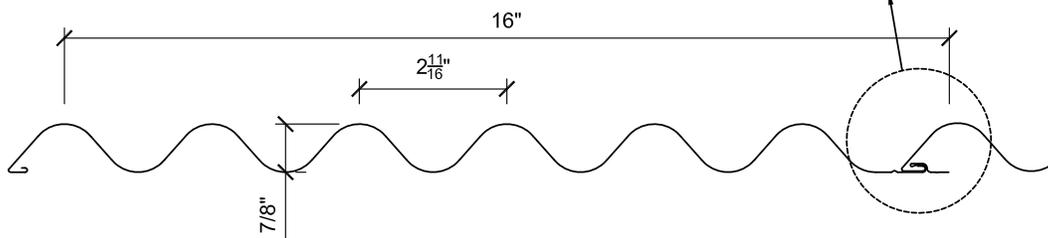
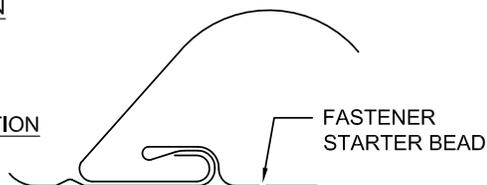
HC-16 PANEL

HC-16 PANEL OVERVIEW



16" HC-16 PANEL SECTION

PANEL TO PANEL CONNECTION



16" HC-16 PANEL SYSTEM ASSEMBLY

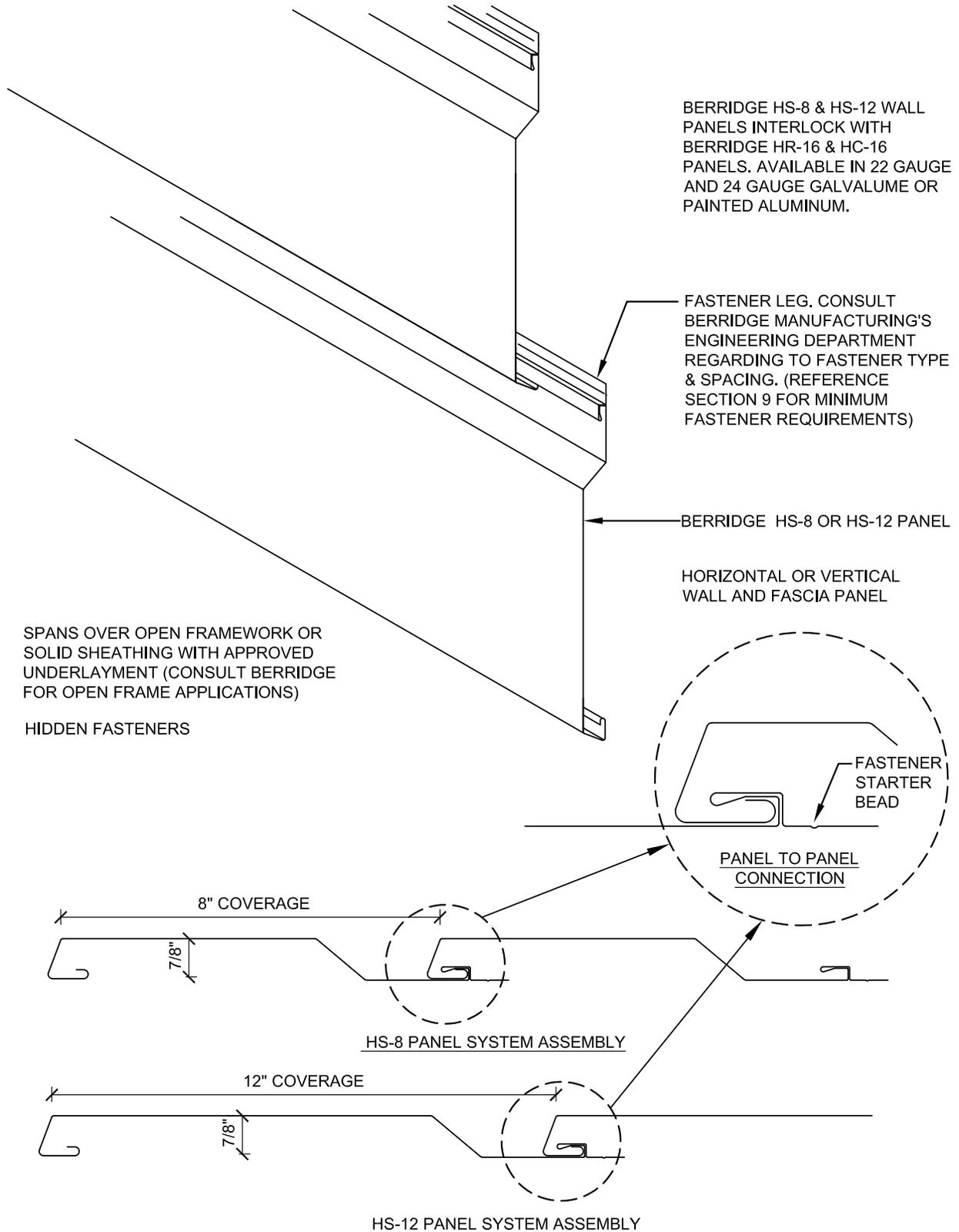
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HS-8 & HS-12 PANEL

HS-8 & HS-12 PANEL OVERVIEW



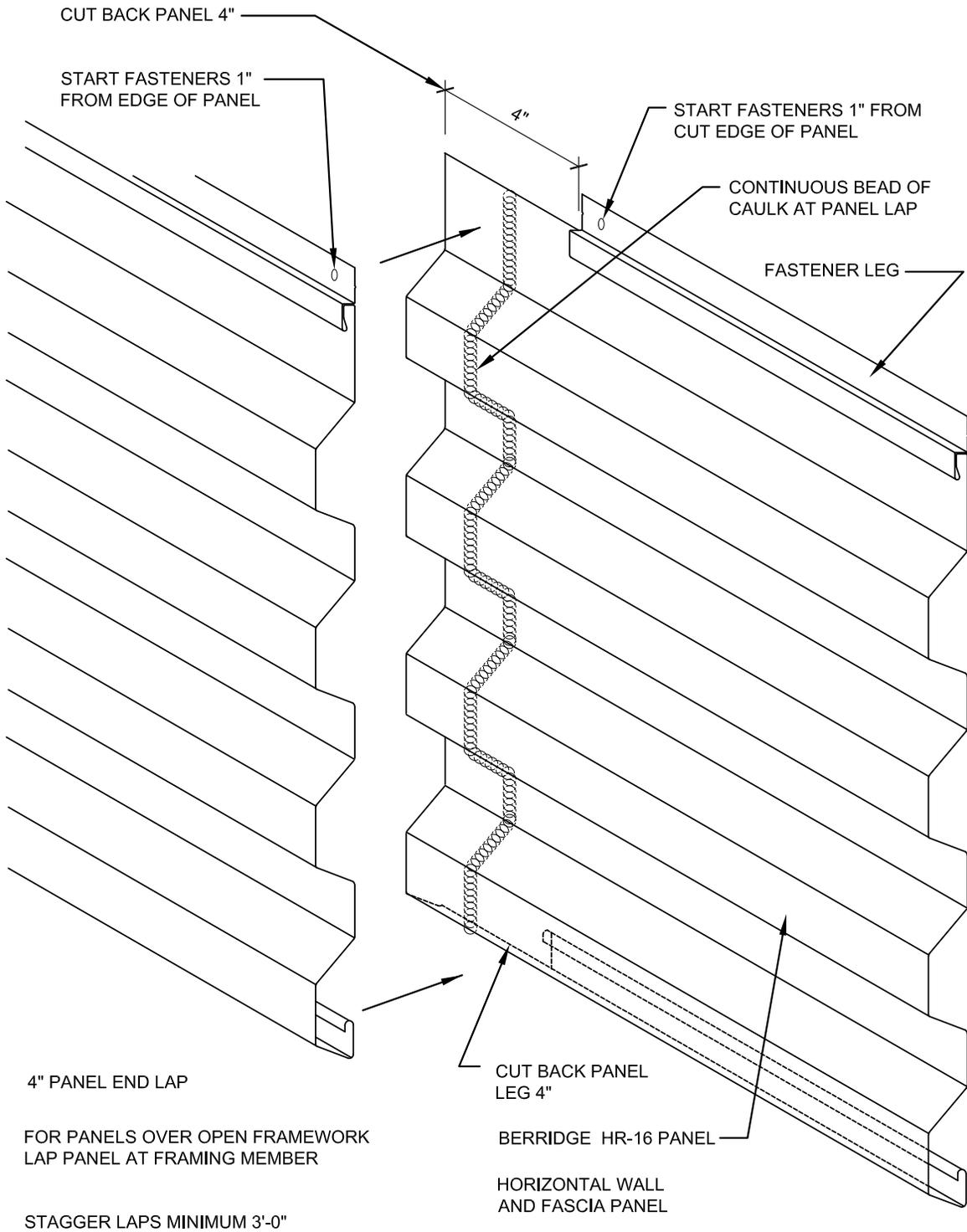
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HR-16, HC-16 & HS PANELS COMMON DETAILS

HR-16 PANEL END LAP DETAIL



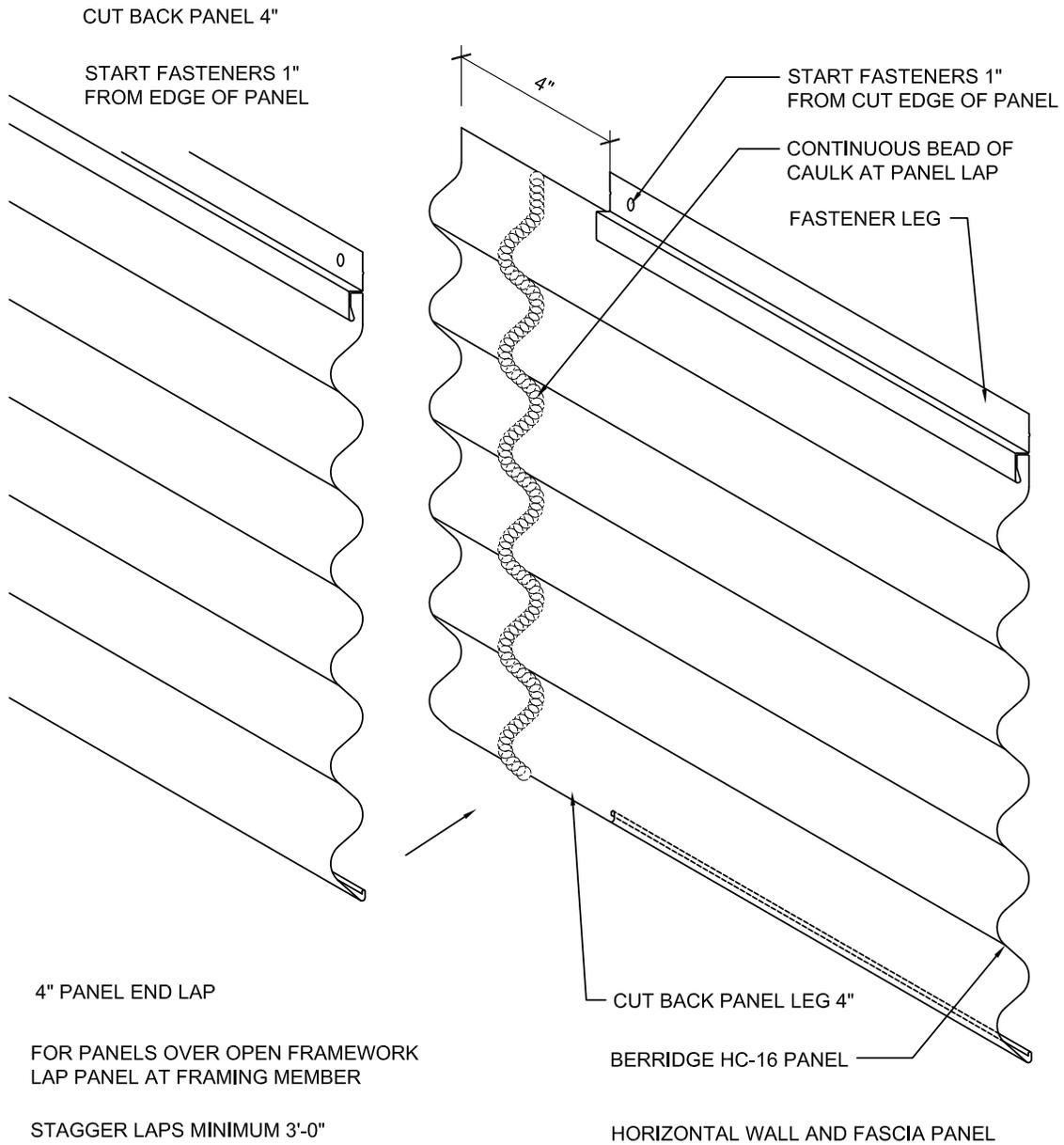
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HC-16 PANEL END LAP DETAIL



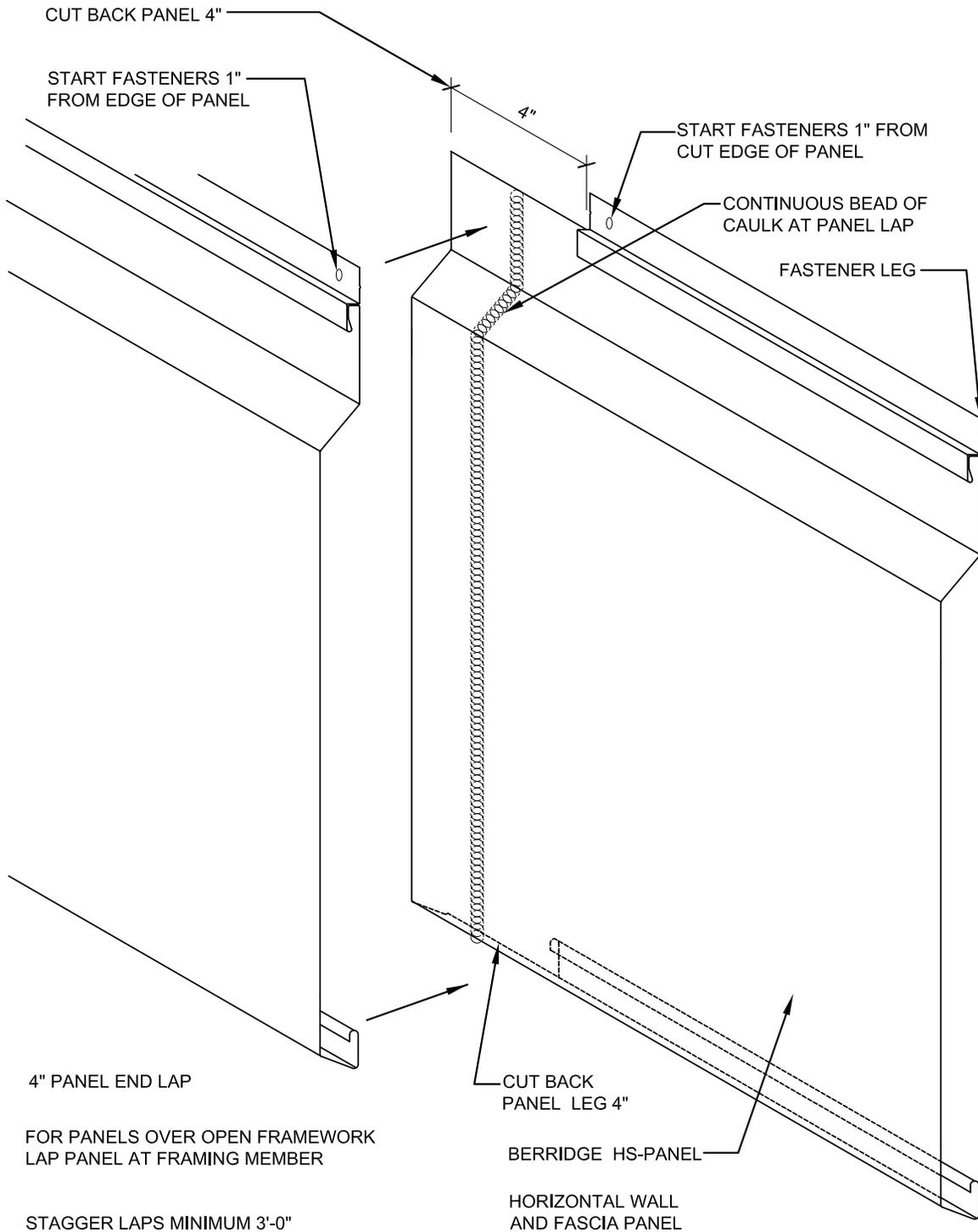
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HR-16, HC-16 & HS PANELS COMMON DETAILS

HS-8 & HS-12 PANEL END LAP DETAIL



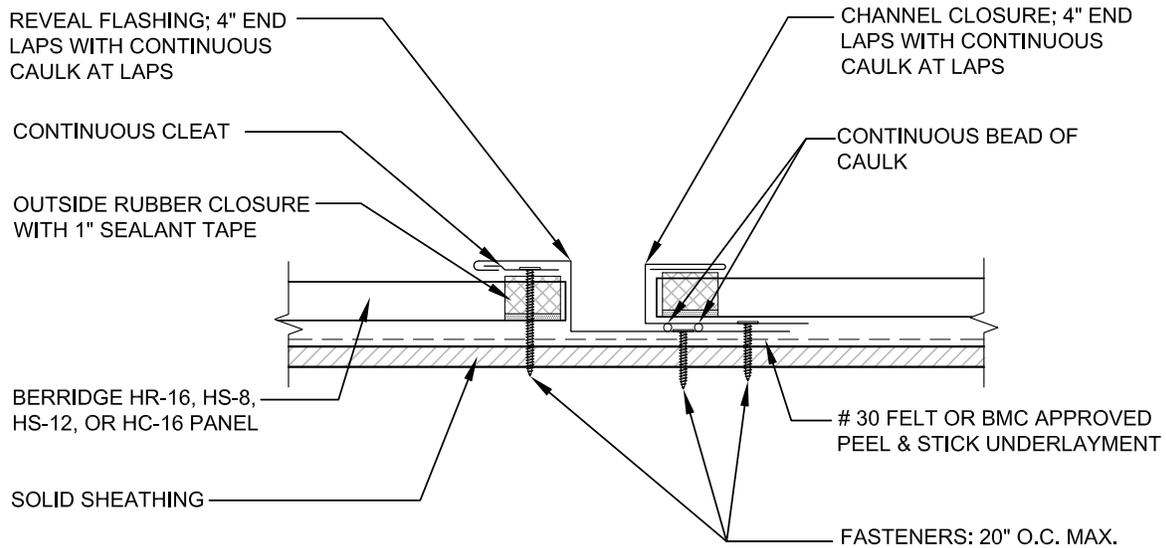
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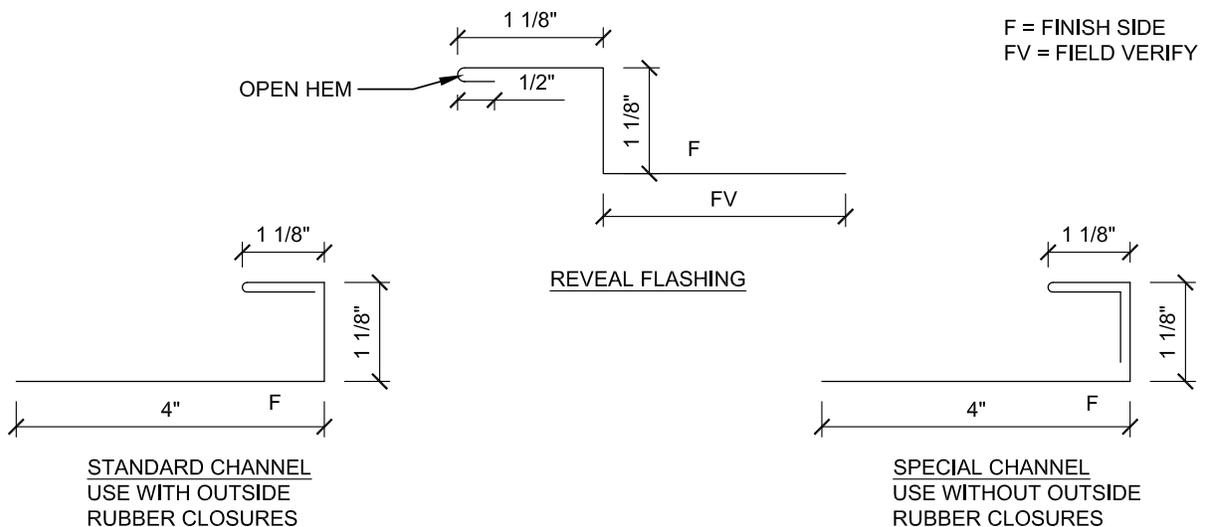
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HR-16, HC-16 & HS PANELS COMMON DETAILS

PANEL REVEAL DETAIL



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)



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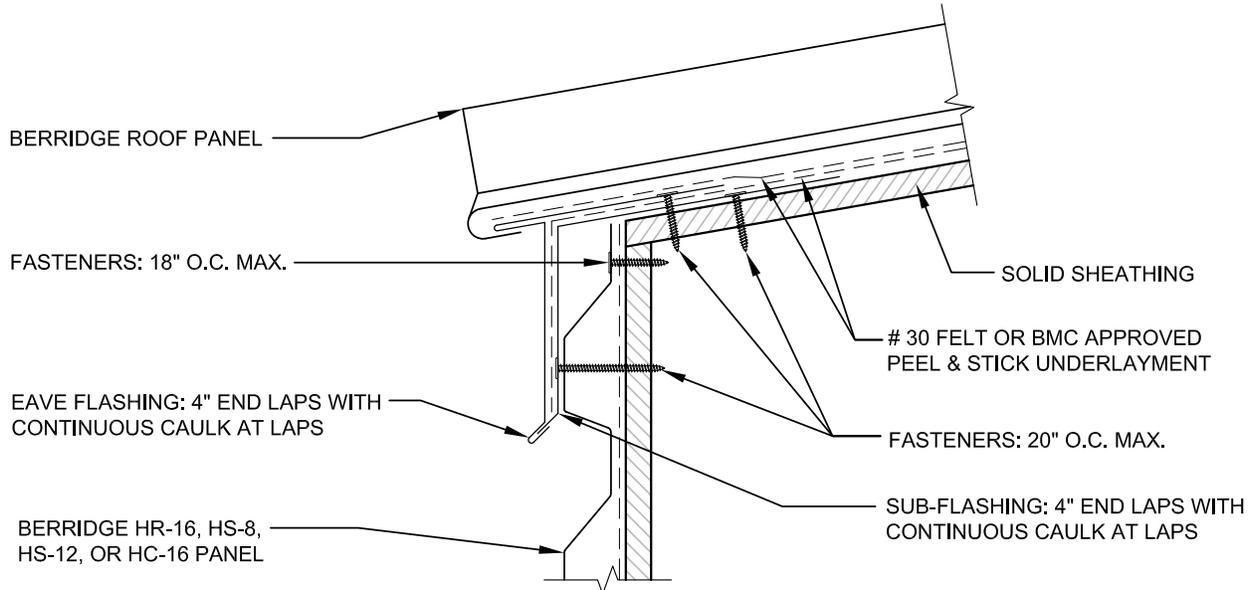
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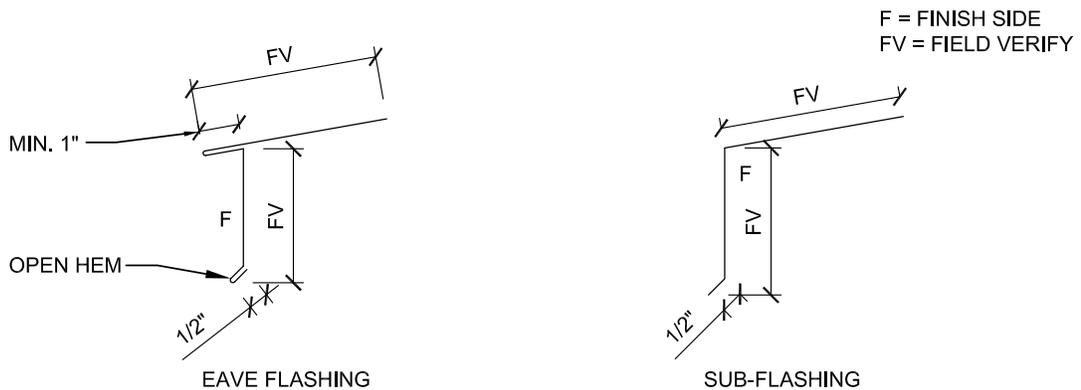
HR-16, HC-16 & HS PANELS COMMON DETAILS

EAVE DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com



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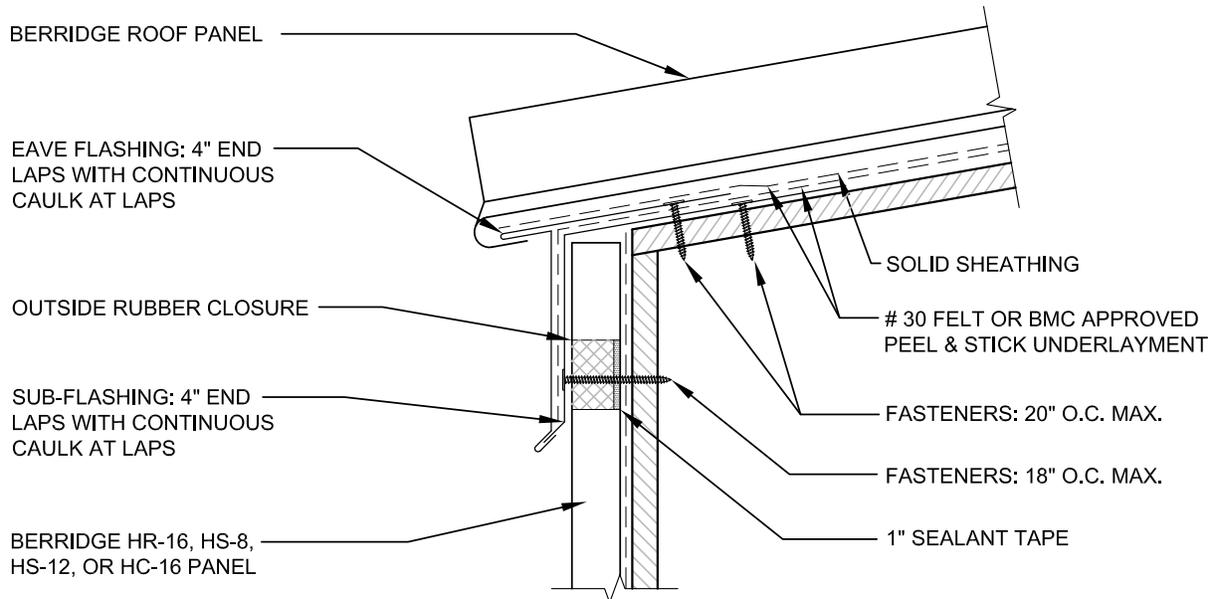


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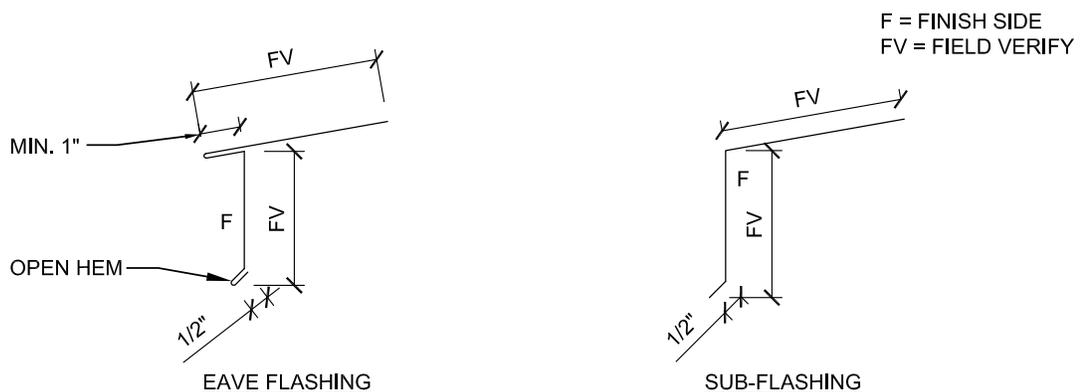
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EAVE DETAIL - VERTICAL PANEL SOLID SHEATHING



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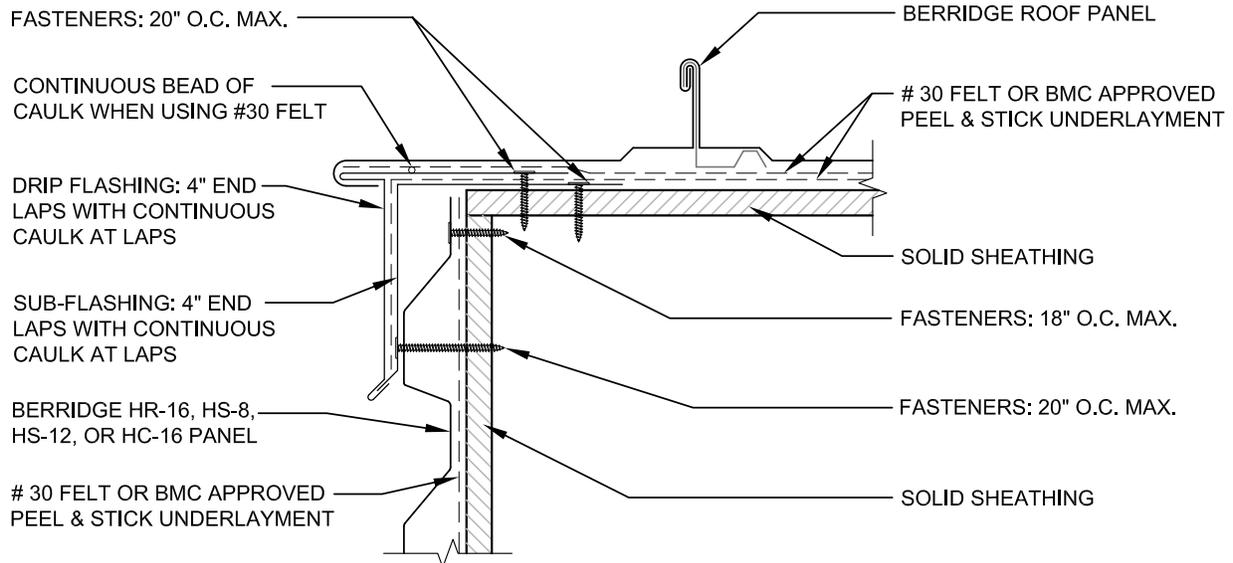
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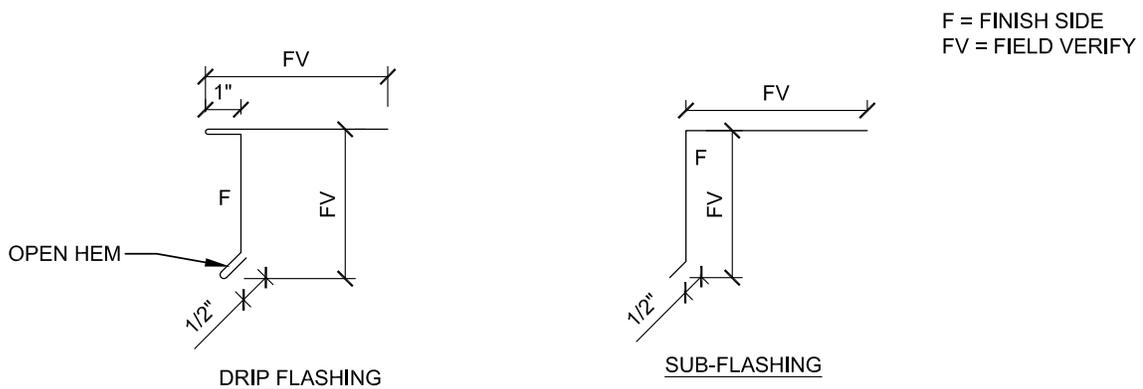
HR-16, HC-16 & HS PANELS COMMON DETAILS

GABLE DETAIL - HORIZONTAL PANEL SOLID SHEATHING

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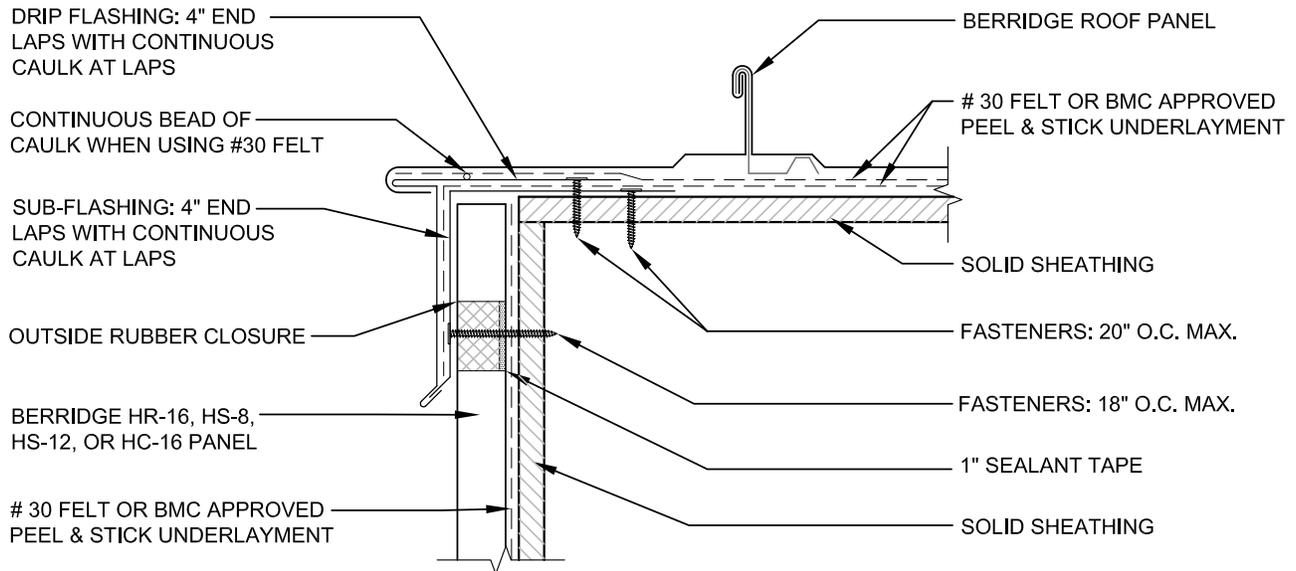
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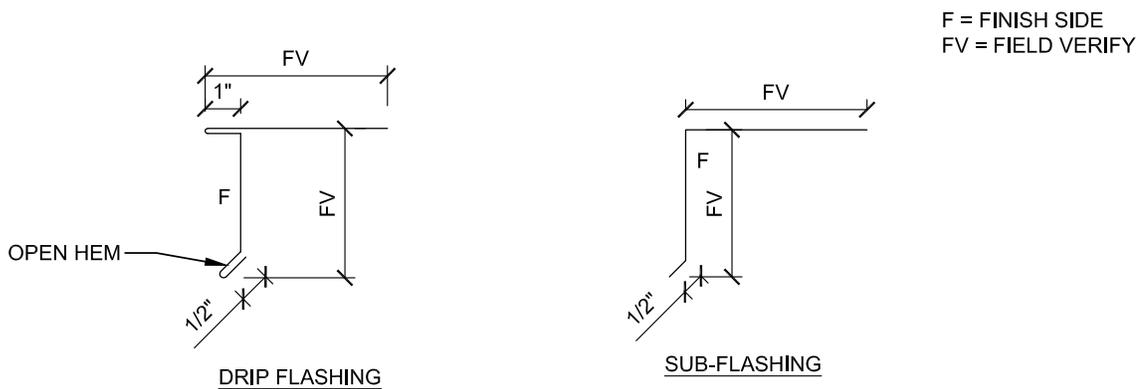
HR-16, HC-16 & HS PANELS COMMON DETAILS

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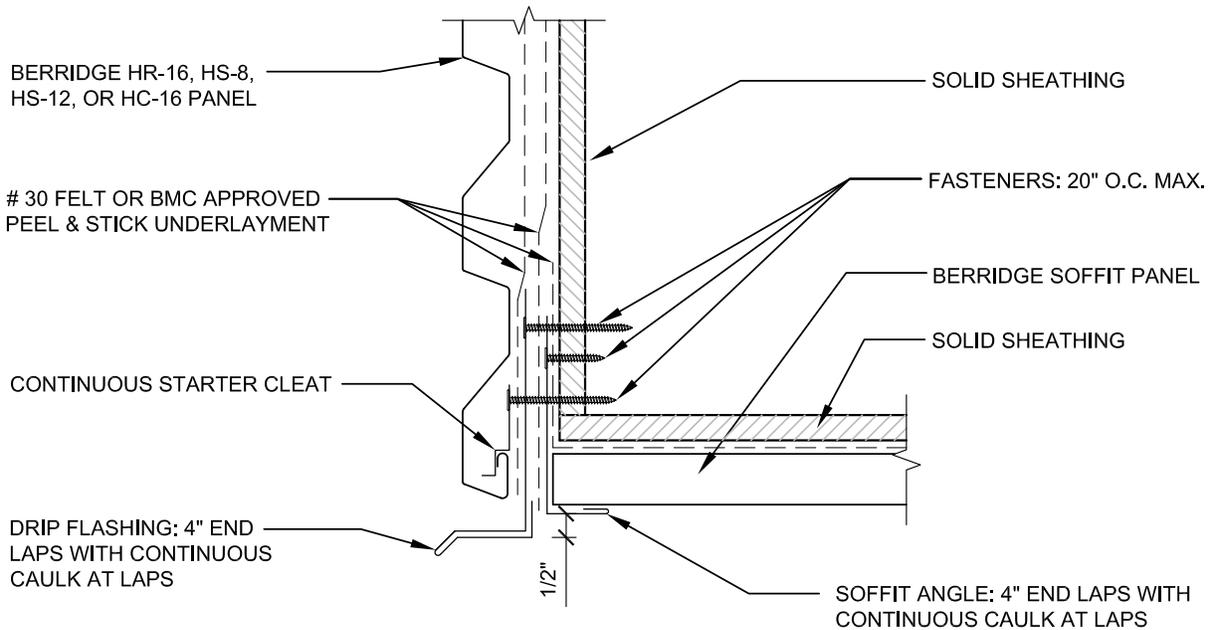
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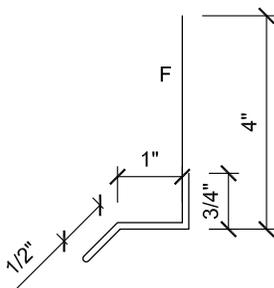
HR-16, HC-16 & HS PANELS COMMON DETAILS

FASCIA TO SOFFIT DETAIL - HORIZONTAL PANEL SOLID SHEATHING

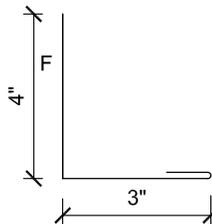
HR-16 shown; for specific product details, visit www.berridge.com



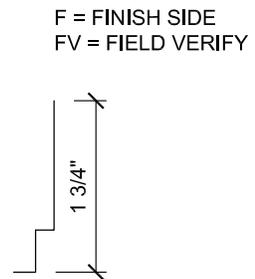
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DRIP FLASHING



SOFFIT ANGLE



STARTER CLEAT

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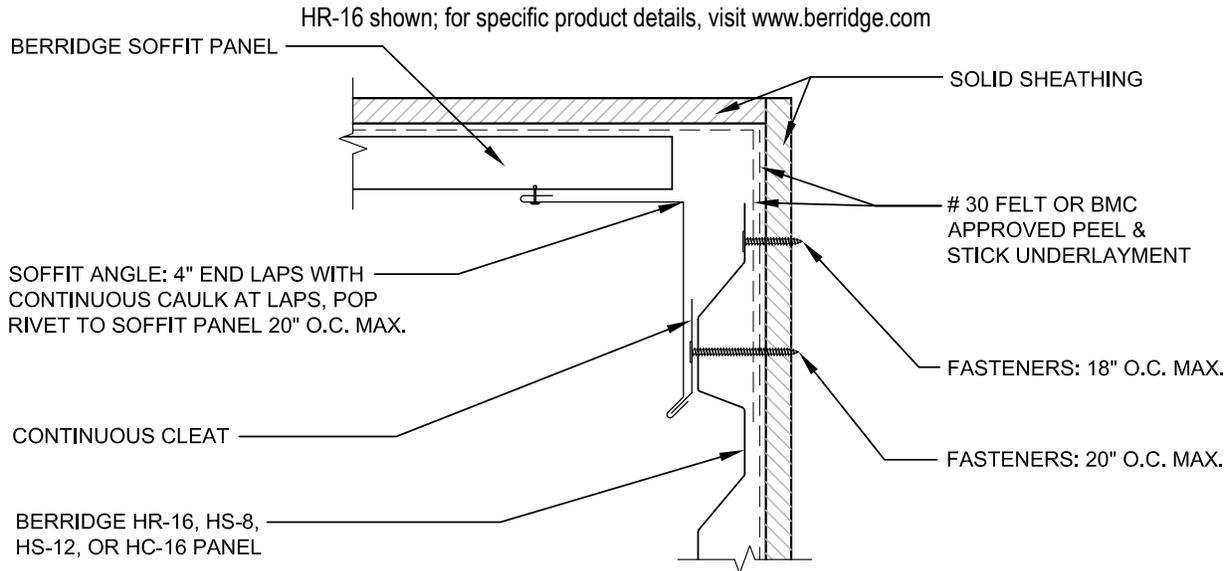
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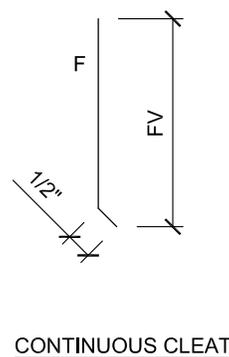
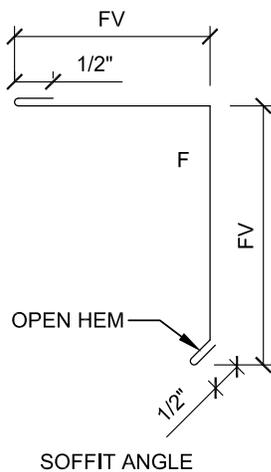
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HR-16, HC-16 & HS PANELS COMMON DETAILS

WALL TO SOFFIT DETAIL - HORIZONTAL PANEL SOLID SHEATHING



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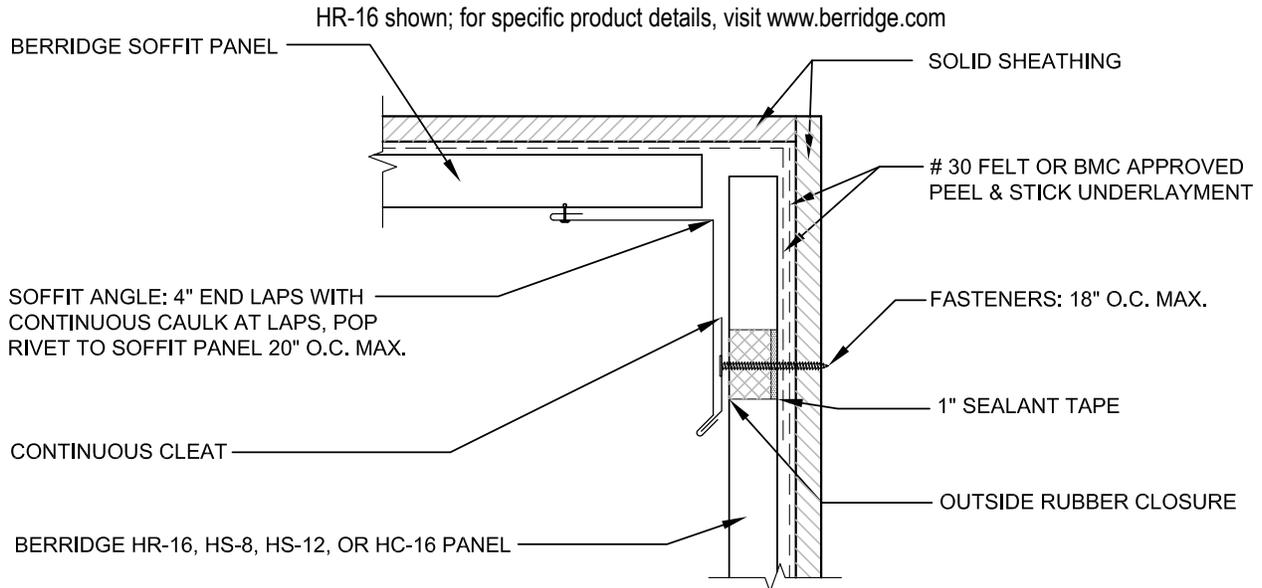
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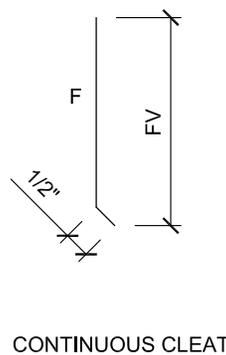
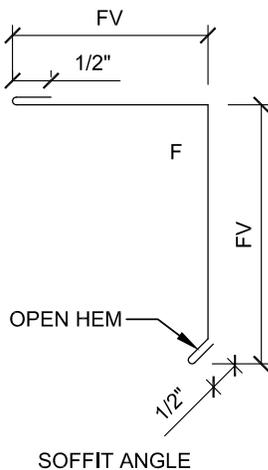
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HR-16, HC-16 & HS PANELS COMMON DETAILS

WALL TO SOFFIT DETAIL - VERTICAL PANEL SOLID SHEATHING



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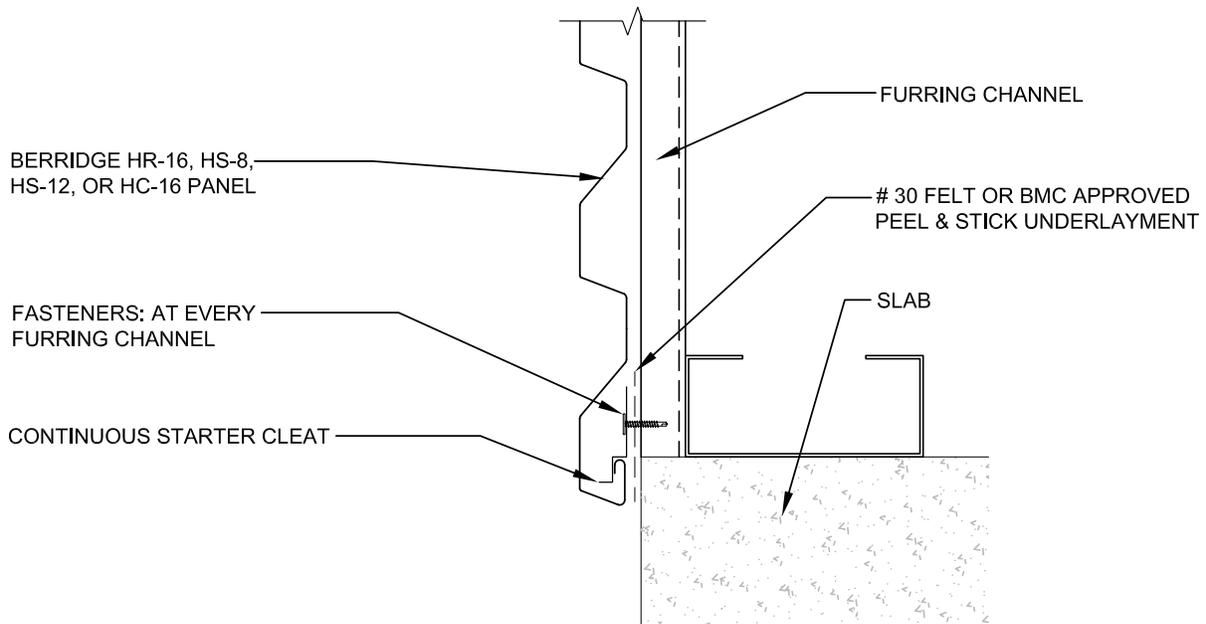
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HR-16, HC-16 & HS PANELS COMMON DETAILS

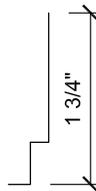
SILL AT SLAB DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com



1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

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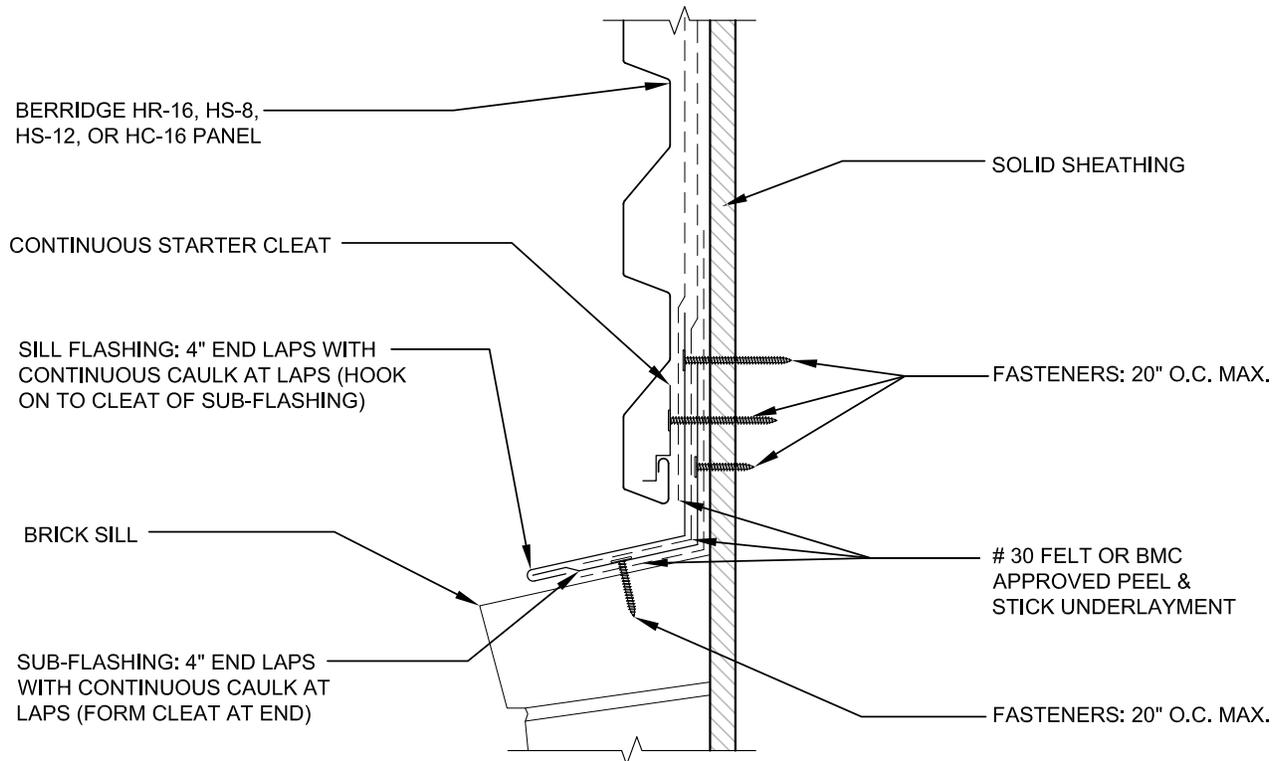
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HR-16, HC-16 & HS PANELS COMMON DETAILS

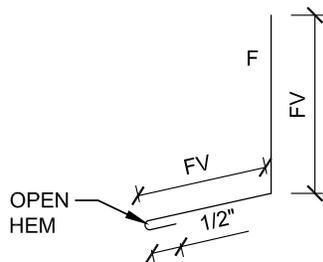
SILL AT BRICK DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com

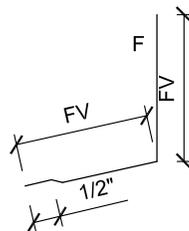


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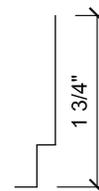
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SILL FLASHING



SUB-FLASHING



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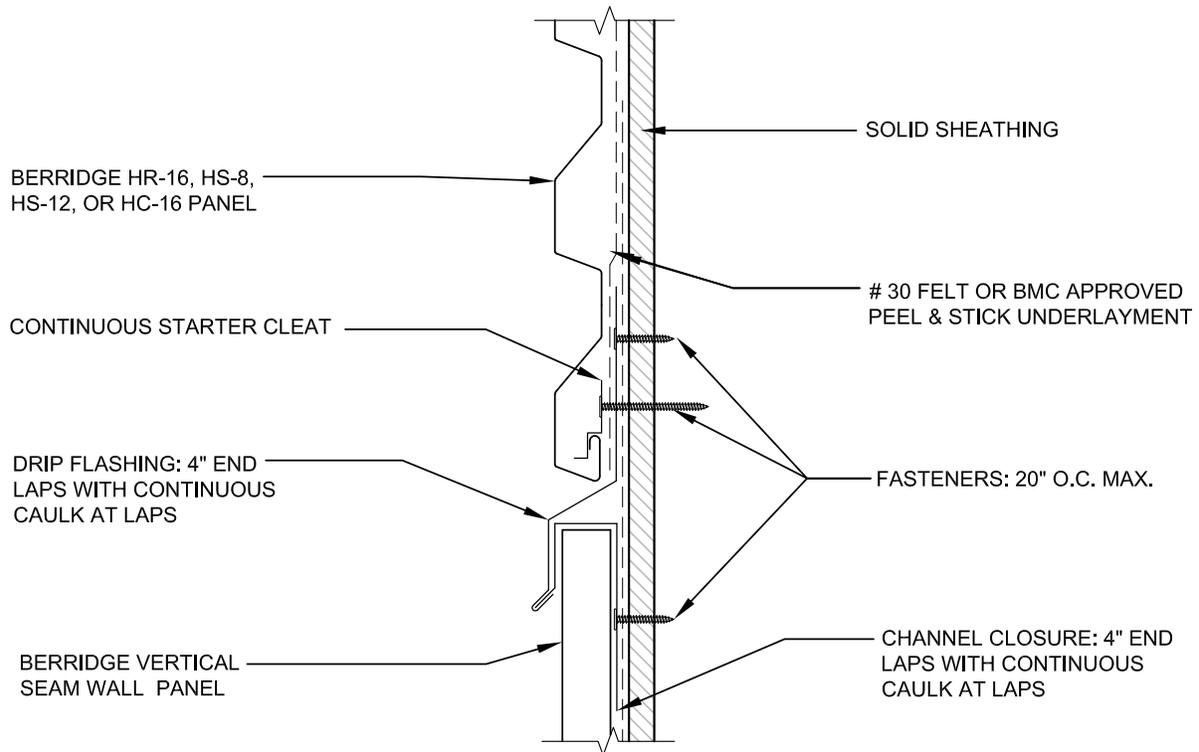
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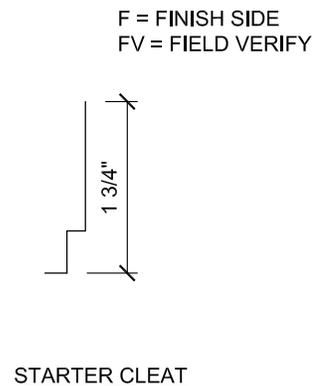
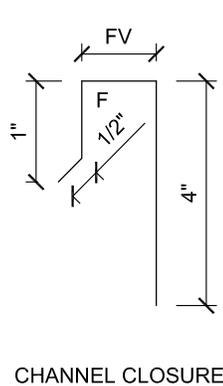
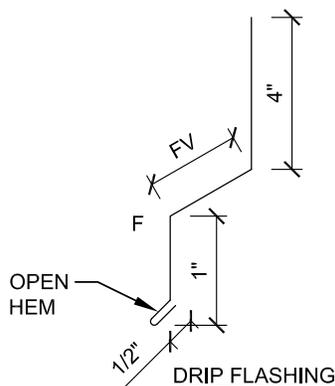
HR-16, HC-16 & HS PANELS COMMON DETAILS

SILL TO VERTICAL PANEL DETAIL - HORIZONTAL PANEL SOLID SHEATHING

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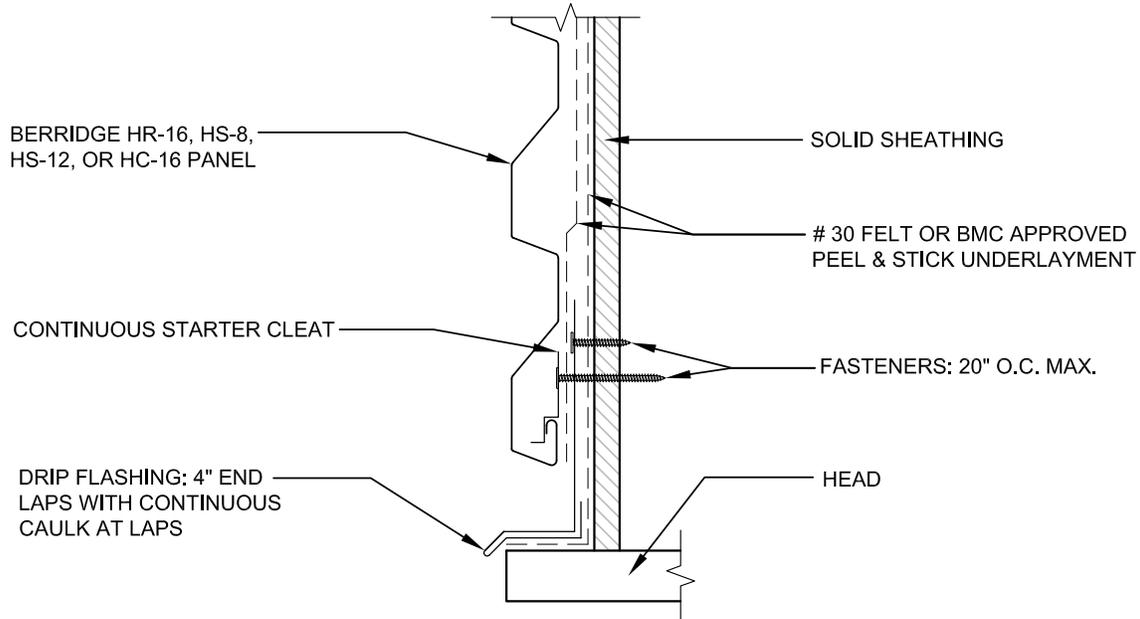
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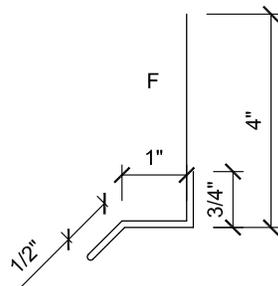
HEADER DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com

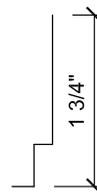


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2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

F = FINISH SIDE
FV = FIELD VERIFY



DRIP FLASHING



STARTER CLEAT

BERRIDGE MANUFACTURING COMPANY

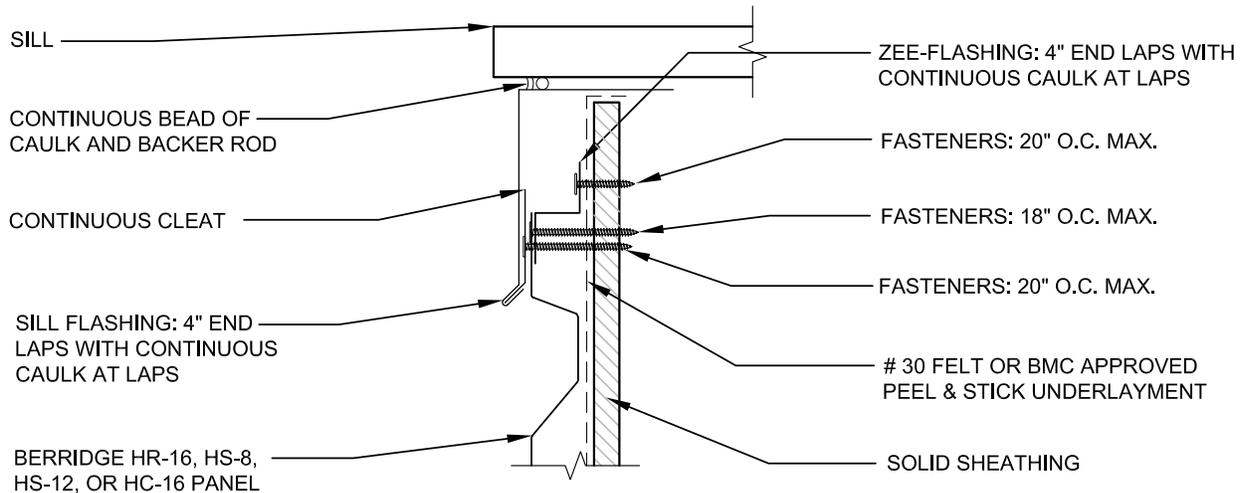
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HR-16, HC-16 & HS PANELS COMMON DETAILS

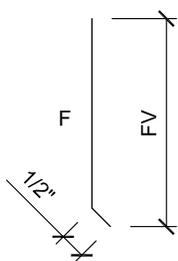
SILL DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com

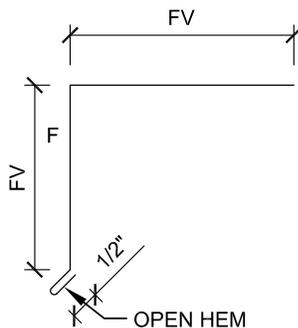


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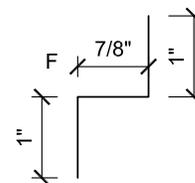
F = FINISH SIDE
FV = FIELD VERIFY



CONTINUOUS CLEAT



SILL FLASHING



ZEE-FLASHING

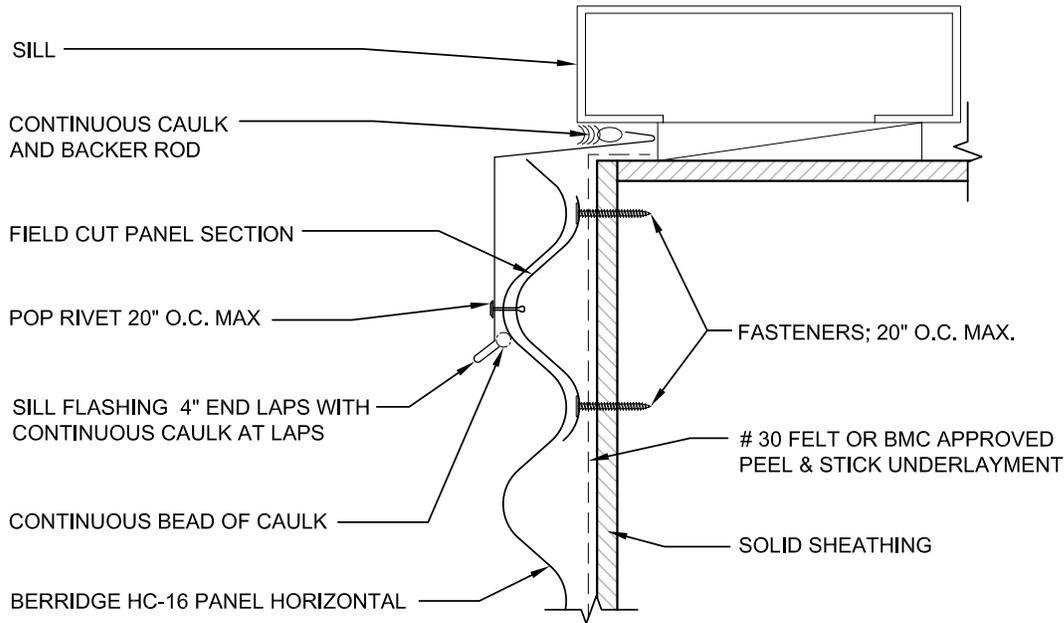
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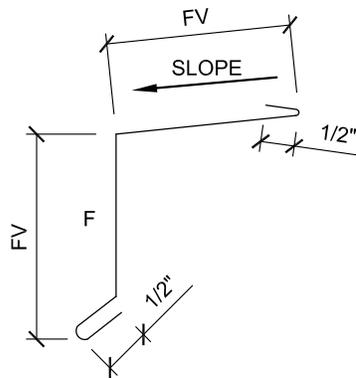
SILL DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HC-16 shown; for specific product details, visit www.berridge.com



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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F = FINISH SIDE
FV = FIELD VERIFY



SILL FLASHING

BERRIDGE MANUFACTURING COMPANY

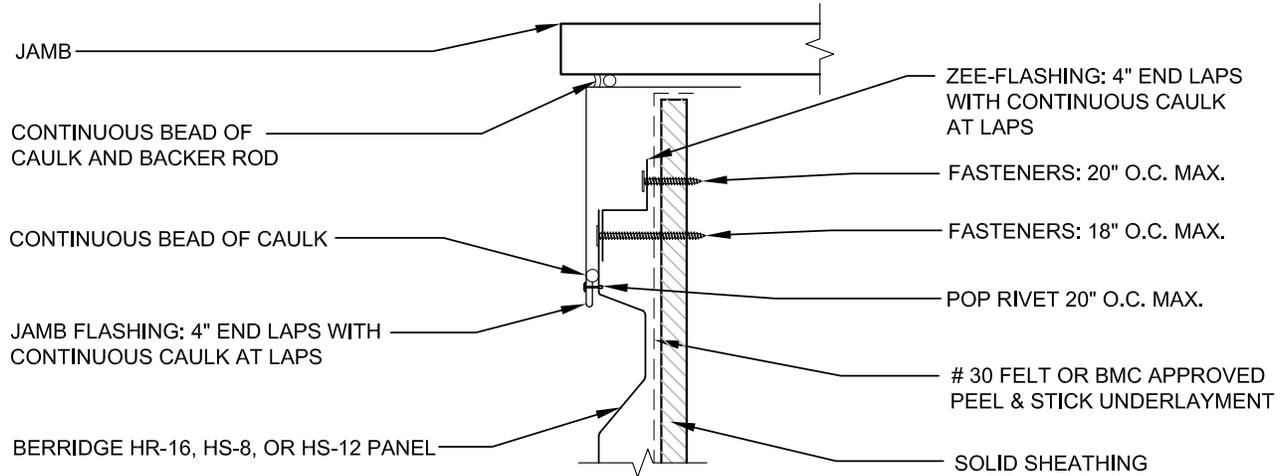
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HR-16, HC-16 & HS PANELS COMMON DETAILS

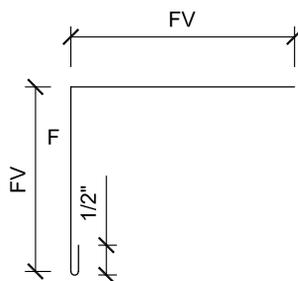
JAMB DETAIL - VERTICAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com

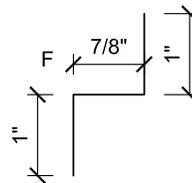


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F = FINISH SIDE
FV = FIELD VERIFY



JAMB FLASHING



ZEE-FLASHING

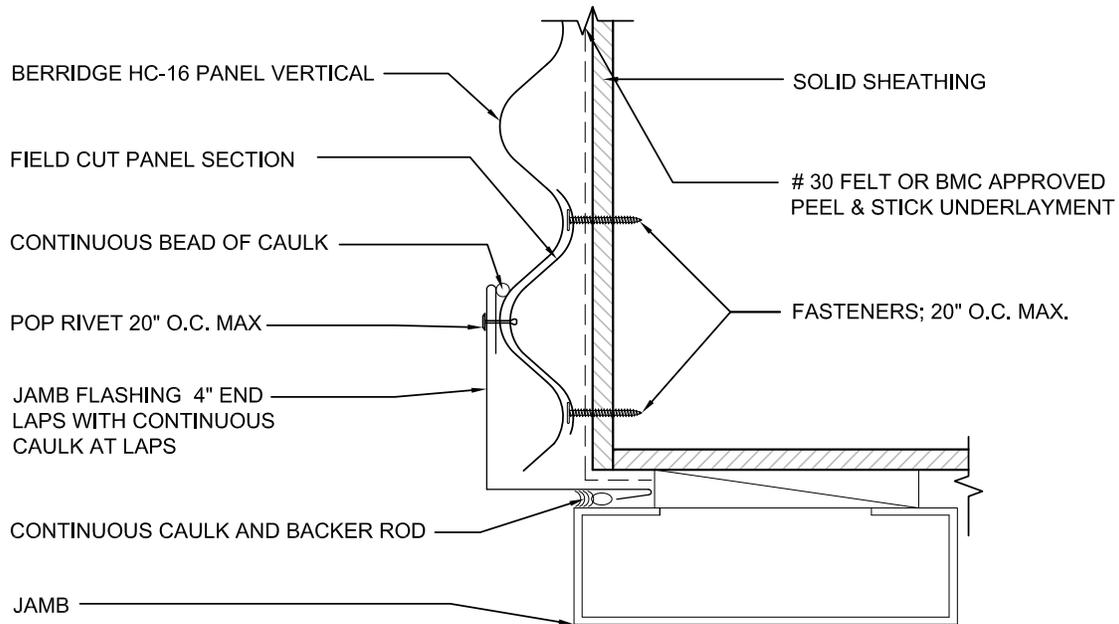
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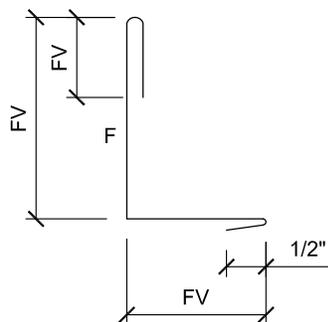
JAMB DETAIL - VERTICAL PANEL SOLID SHEATHING

HC-16 shown; for specific product details, visit www.berridge.com



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JAMB FLASHING

BERRIDGE MANUFACTURING COMPANY

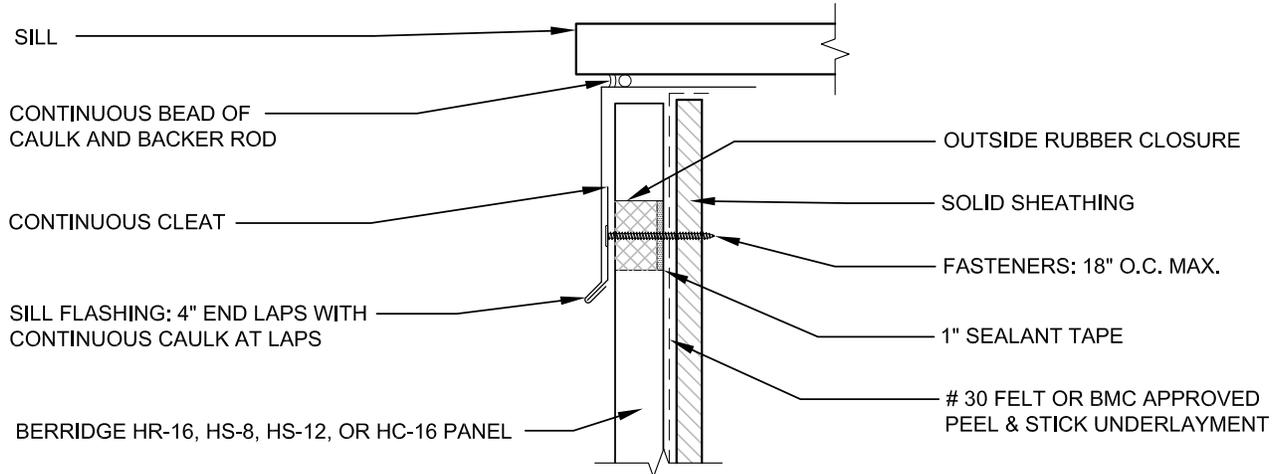
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HR-16, HC-16 & HS PANELS COMMON DETAILS

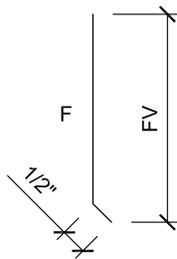
SILL DETAIL - VERTICAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com

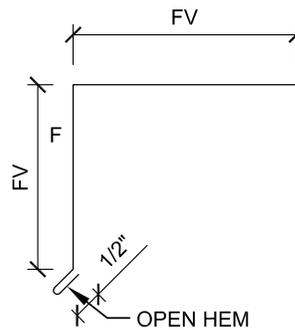


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CONTINUOUS CLEAT



SILL FLASHING

BERRIDGE MANUFACTURING COMPANY

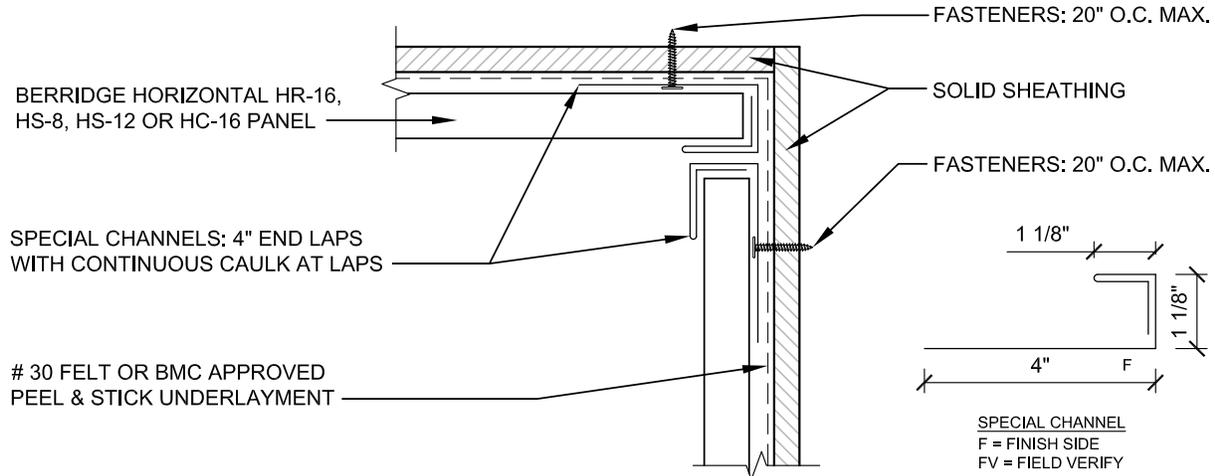
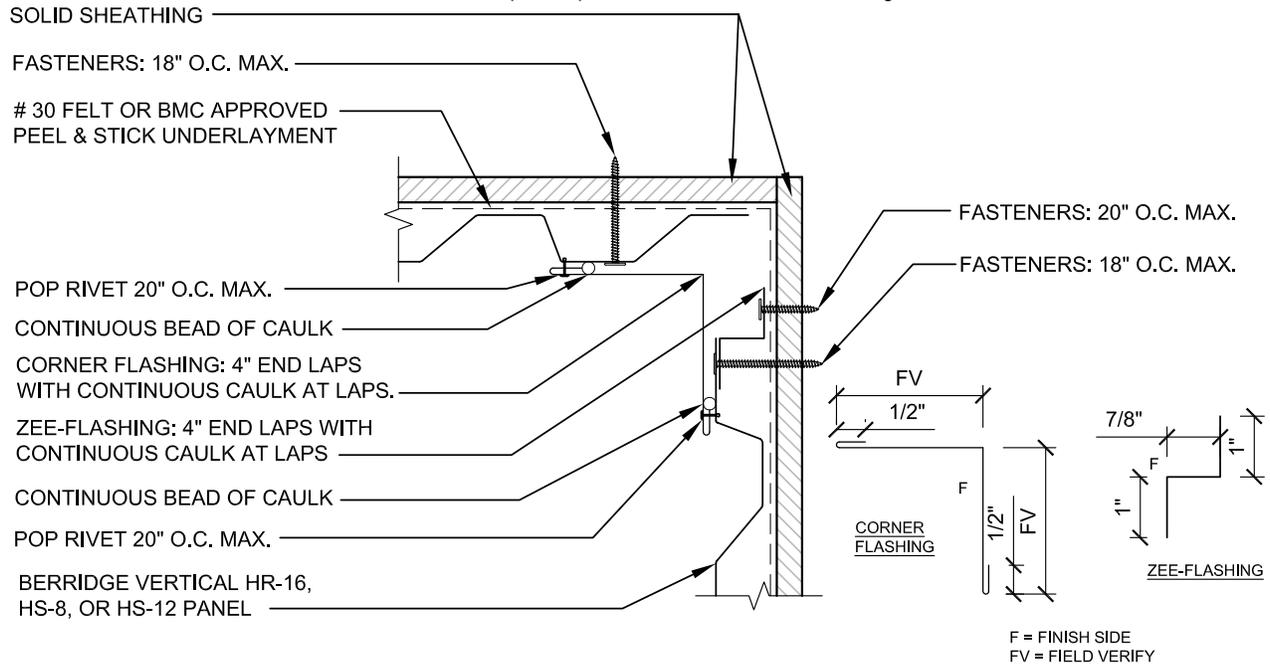
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HR-16, HC-16 & HS PANELS COMMON DETAILS

INSIDE CORNER DETAIL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com



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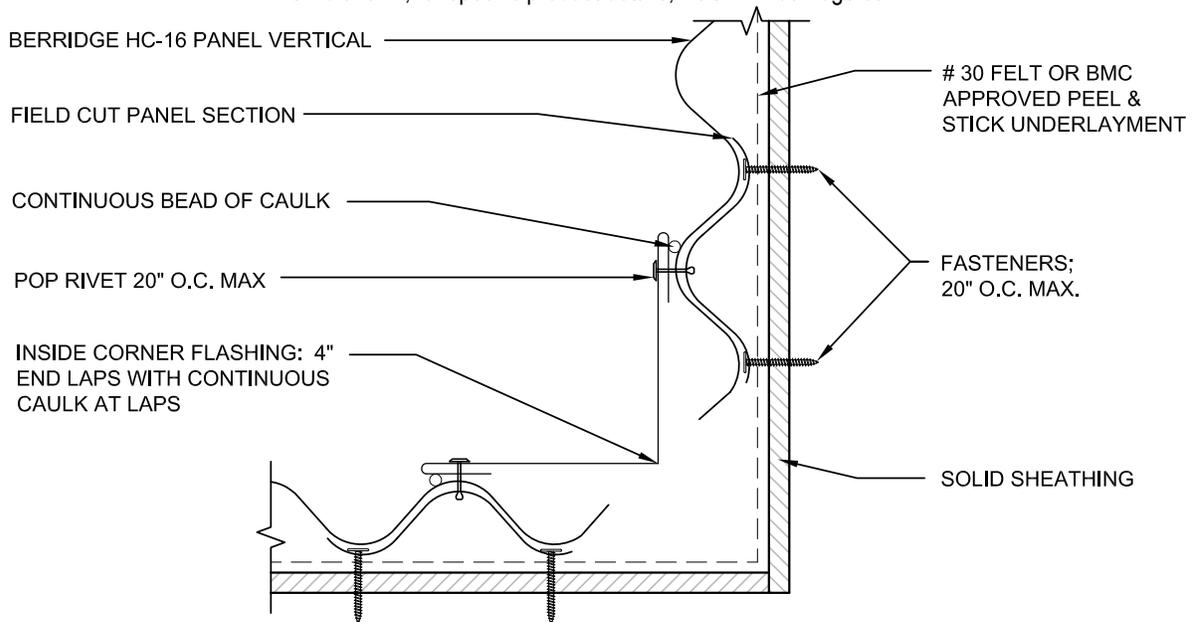
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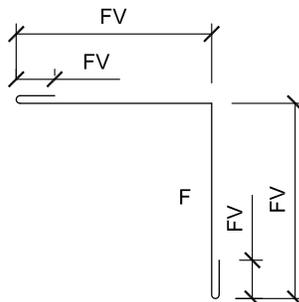
INSIDE CORNER DETAIL - VERTICAL PANEL SOLID SHEATHING

HC-16 shown; for specific product details, visit www.berridge.com



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CORNER FLASHING

BERRIDGE MANUFACTURING COMPANY

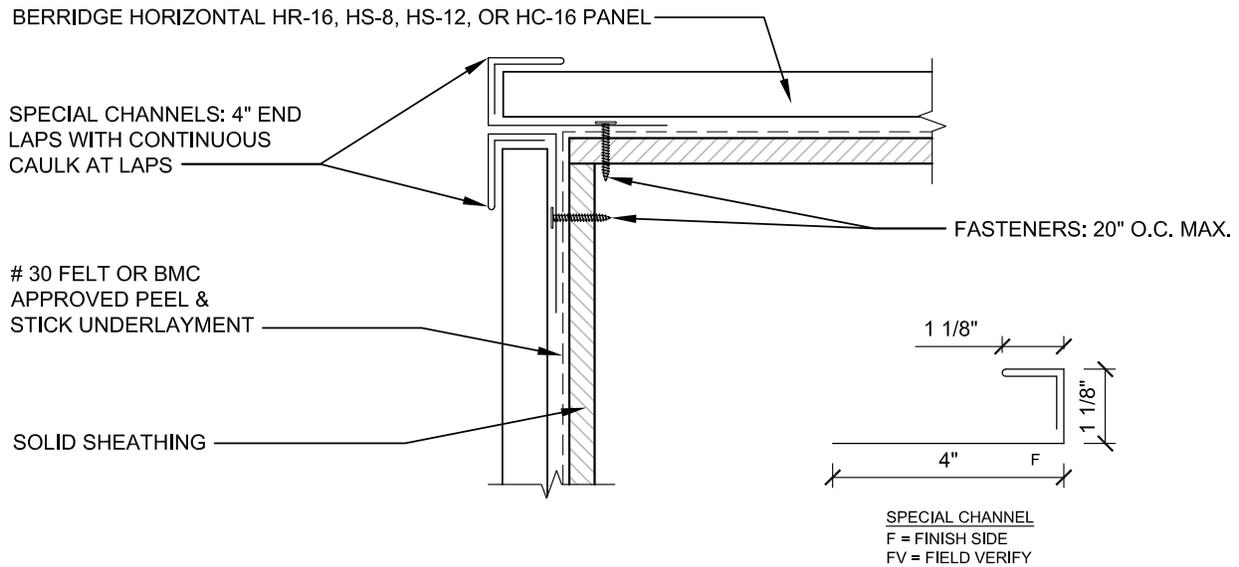
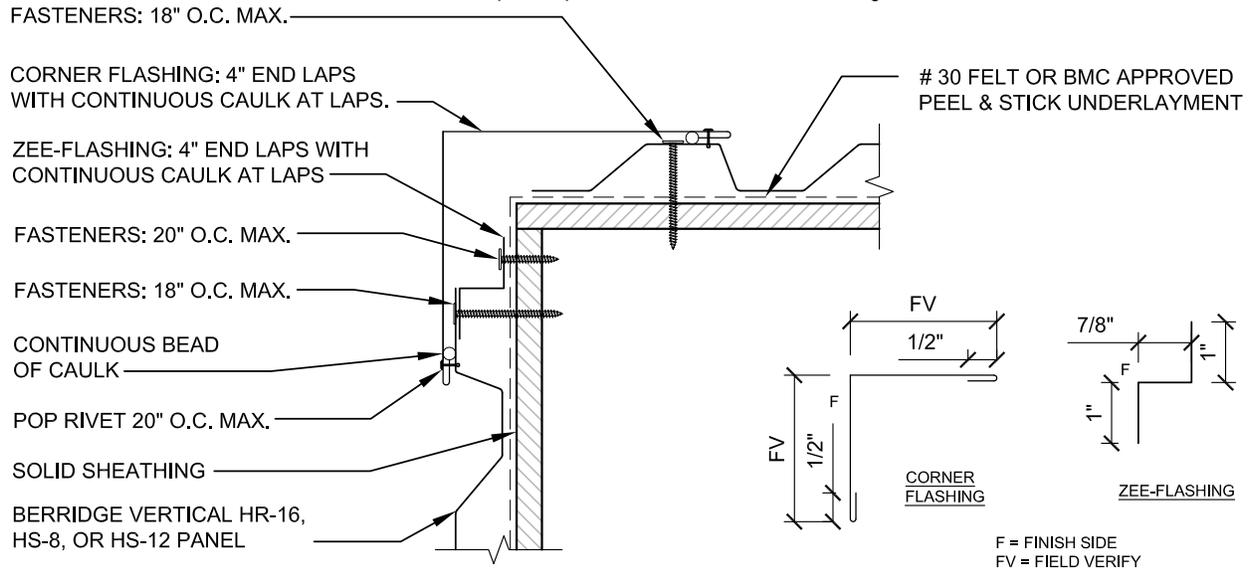
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HR-16, HC-16 & HS PANELS COMMON DETAILS

OUTSIDE CORNER DETAIL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com



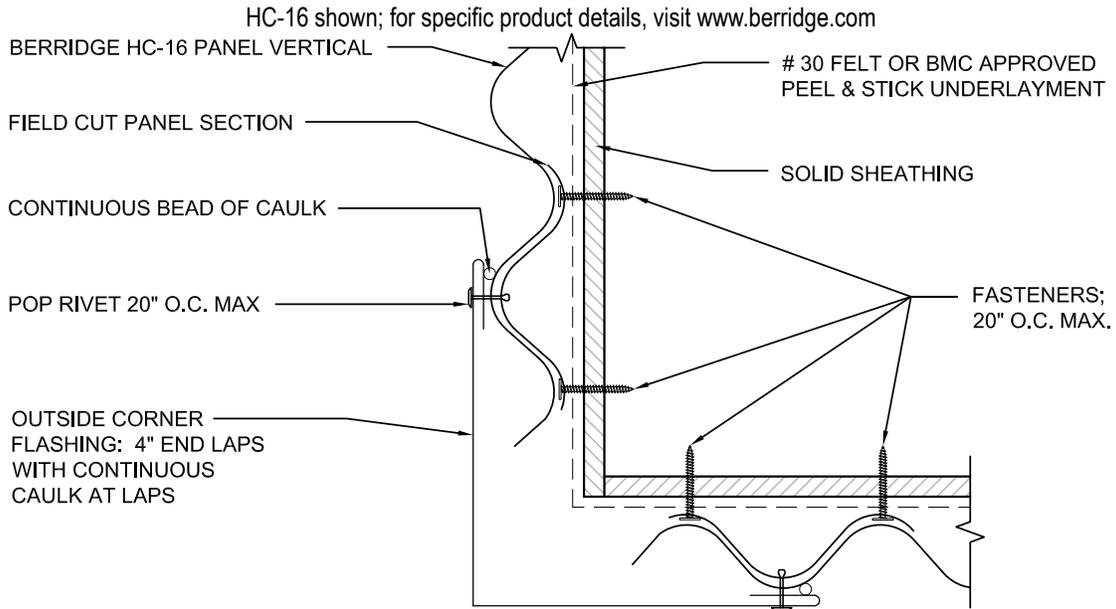
1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

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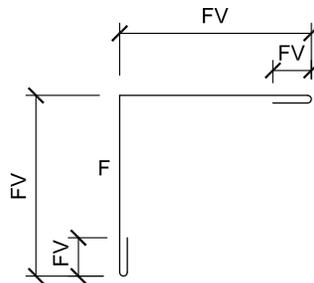
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OUTSIDE CORNER DETAIL - VERTICAL PANEL SOLID SHEATHING



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CORNER FLASHING

BERRIDGE MANUFACTURING COMPANY

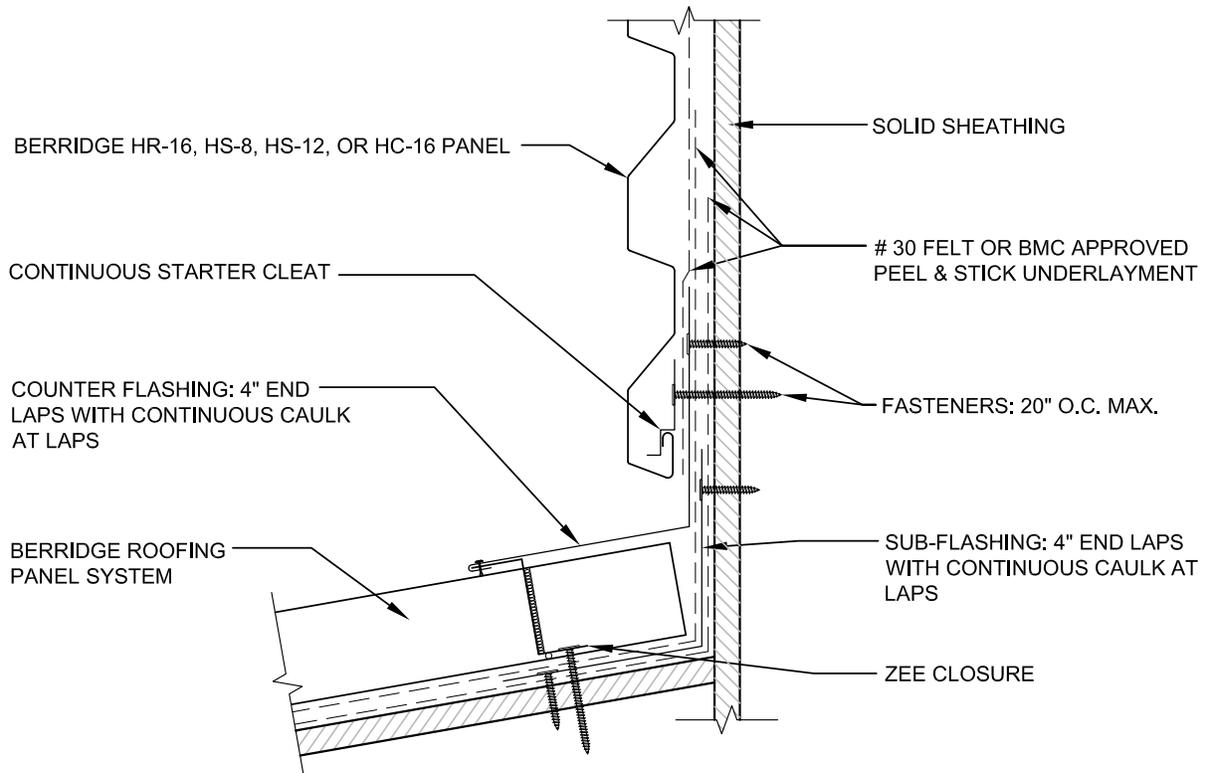
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HR-16, HC-16 & HS PANELS COMMON DETAILS

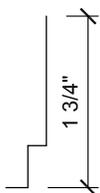
HEAD WALL DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com

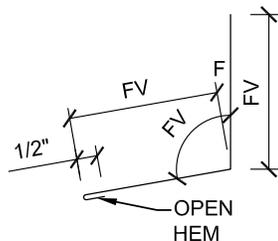


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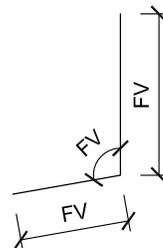
F = FINISH SIDE
FV = FIELD VERIFY



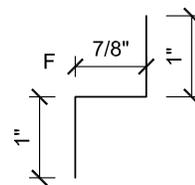
STARTER CLEAT



COUNTER FLASHING



SUB FLASHING



ZEE-FLASHING

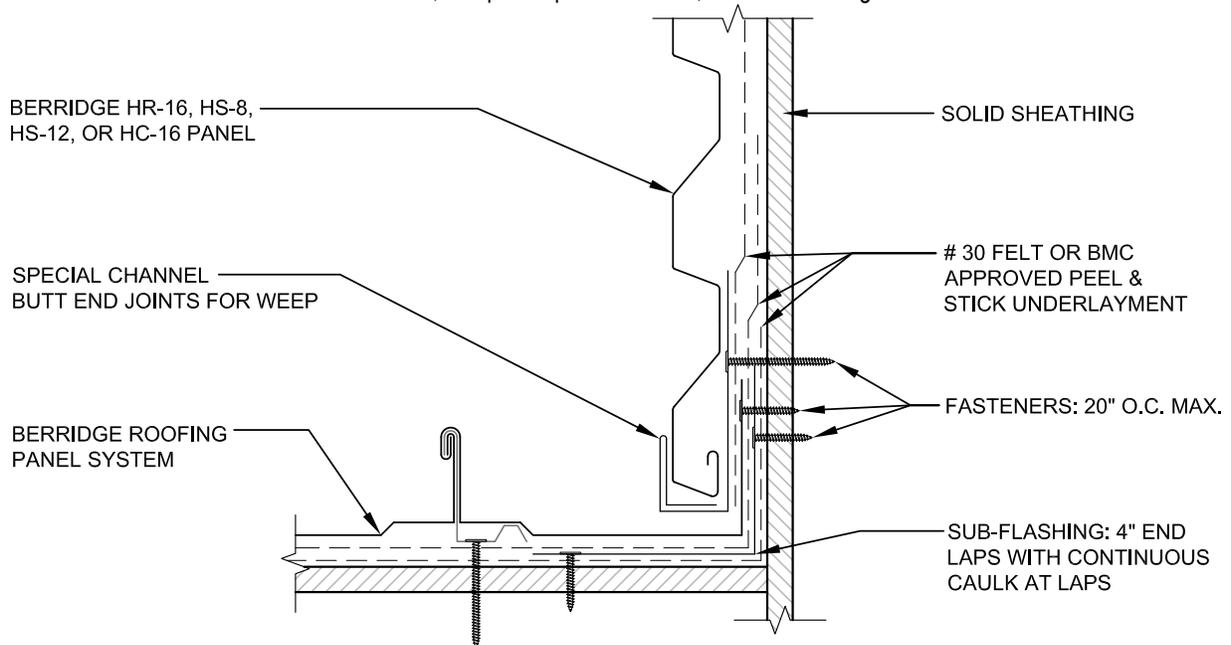
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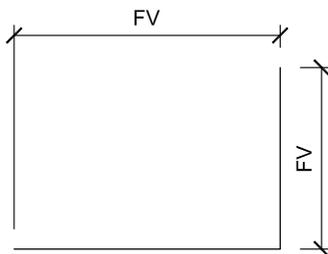
RAKE WALL DETAIL - HORIZONTAL PANEL SOLID SHEATHING

HR-16 shown; for specific product details, visit www.berridge.com

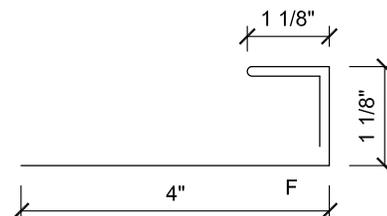


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SUB FLASHING



SPECIAL CHANNEL

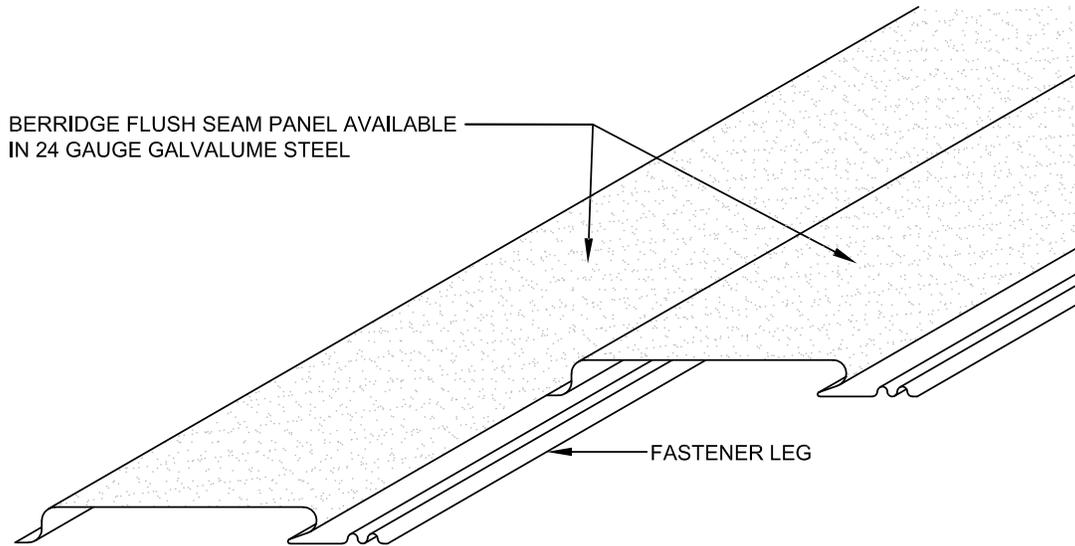
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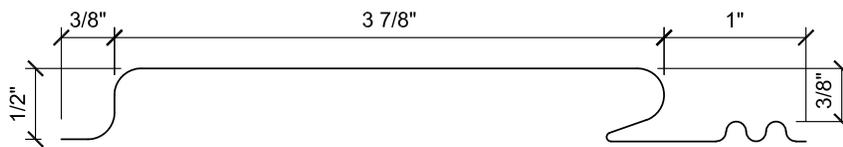
FLUSH SEAM PANEL

FLUSH SEAM PANEL OVERVIEW



SPANS OVER OPEN FRAMEWORK OR SOLID SHEATHING WITH APPROVED UNDERLAYMENT

HIDDEN FASTENERS
STUCCO EMBOSSED STANDARD
OPTIONAL WOOD GRAIN EMBOSSED TEXTURE
SELF VENTING



FLUSH SEAM PANEL SECTION

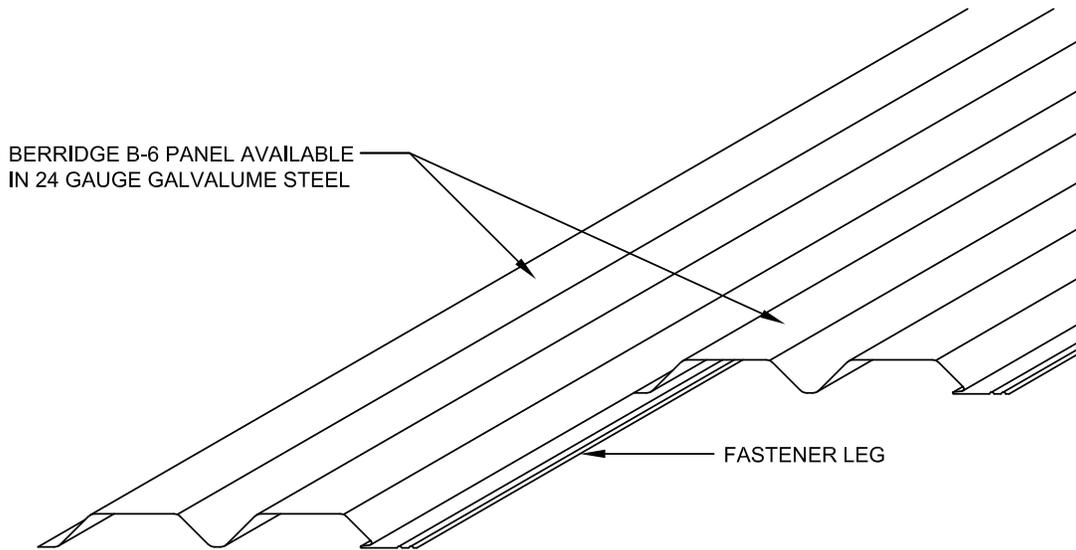
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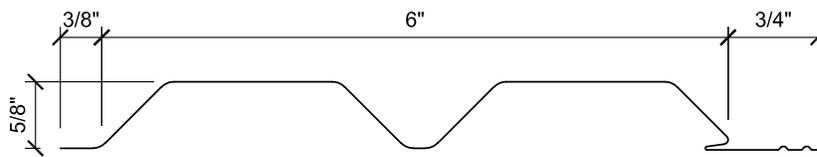
B-6 PANEL

B-6 PANEL OVERVIEW



SPANS OVER OPEN FRAMEWORK OR SOLID SHEATHING WITH APPROVED UNDERLAYMENT

HIDDEN FASTENERS
SELF VENTING



B-6 PANEL SECTION

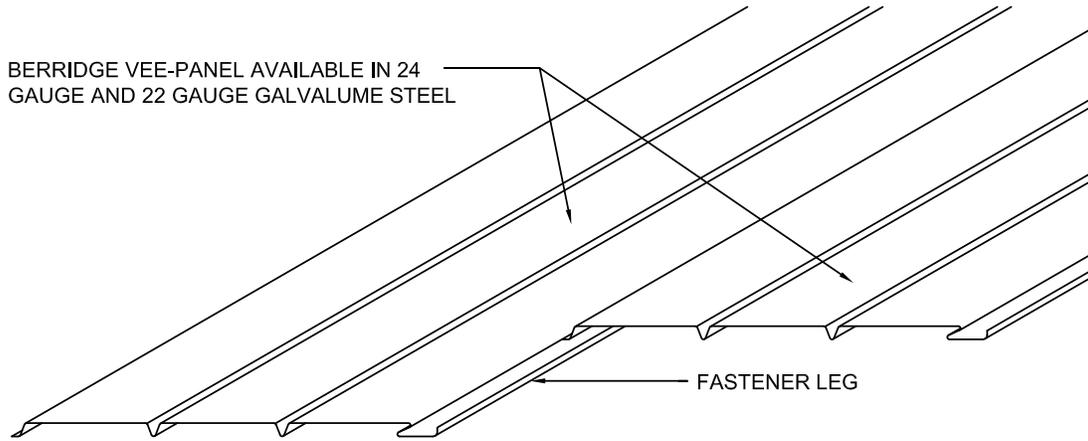
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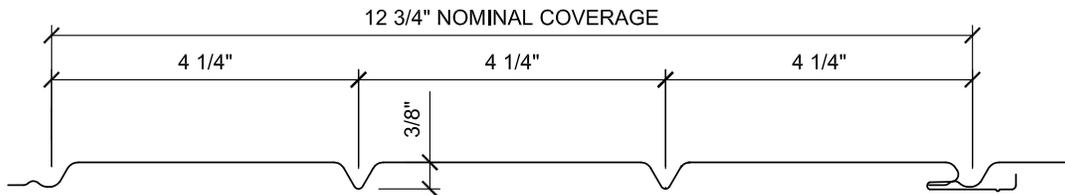
VEE-PANEL

VEE-PANEL OVERVIEW



SPANS OVER OPEN FRAMEWORK OR SOLID SHEATHING WITH APPROVED UNDERLAYMENT

HIDDEN FASTENERS
OPTIONAL WOOD GRAIN EMBOSSED TEXTURE
MAY BE VENTED, REFERENCE PAGE 228



VEE PANEL SECTION

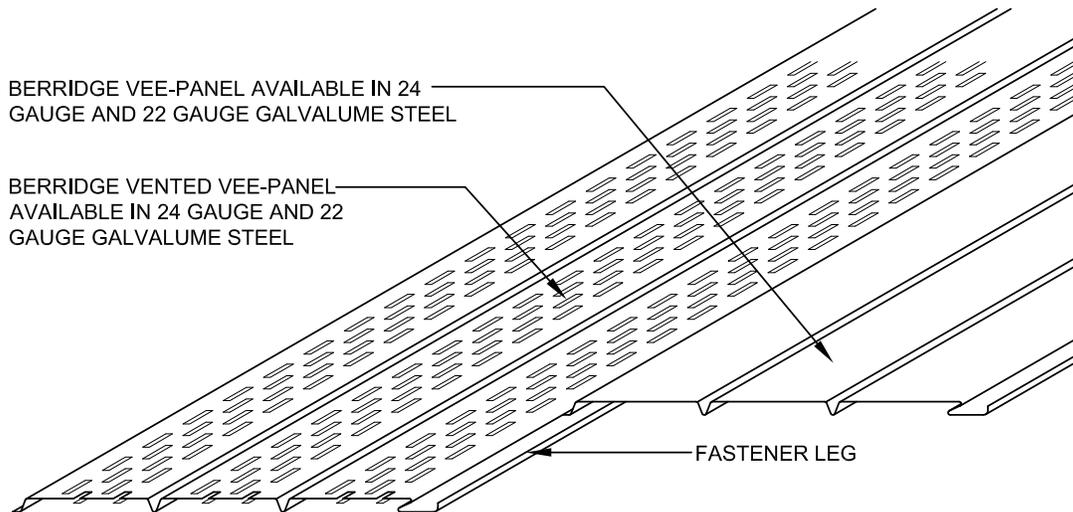
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VENTED VEE-PANEL

VENTED VEE-PANEL OVERVIEW



VENTED VEE-PANEL SOFFIT

BERRIDGE MANUFACTURING COMPANY DOES NOT RECOMMEND THIS PRODUCT IN APPLICATIONS SUBJECT TO AGGRESSIVE ATMOSPHERES, MARINE ENVIRONMENTS OR HIGH HUMIDITY DUE TO THE CORROSIVE NATURE OF THESE ENVIRONMENTS ON RAW EDGES OF STEEL.

NET FREE VENT AREA (NFVA) 12 3/4" PANEL

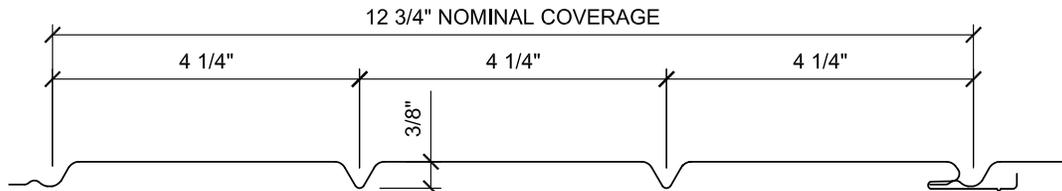
6.46 SQUARE INCHES PER LINEAL FOOT OF PANEL; 6.08 SQUARE INCHES FOR SQUARE FOOT OF PANEL.

NOTE: THE ENTIRE SOFFIT AREA SHOULD NOT BE VENTED; A RATIO OF 1:300 SOFFIT VS ATTIC AREA, AND 60:40 RIDGE VENT VS SOFFIT VENT S.F. IS RECOMMENDED.

NET FREE VENT AREA (NFVA) 10 3/4" PANEL

9.07 SQUARE INCHES PER LINEAL FOOT OF PANEL; 10.01 SQUARE INCHES FOR SQUARE FOOT OF PANEL.

NOTE: THE ENTIRE SOFFIT AREA SHOULD NOT BE VENTED; A RATIO OF 1:300 SOFFIT VS ATTIC AREA, AND 60:40 RIDGE VENT VS SOFFIT VENT S.F. IS RECOMMENDED.



VEE PANEL SECTION

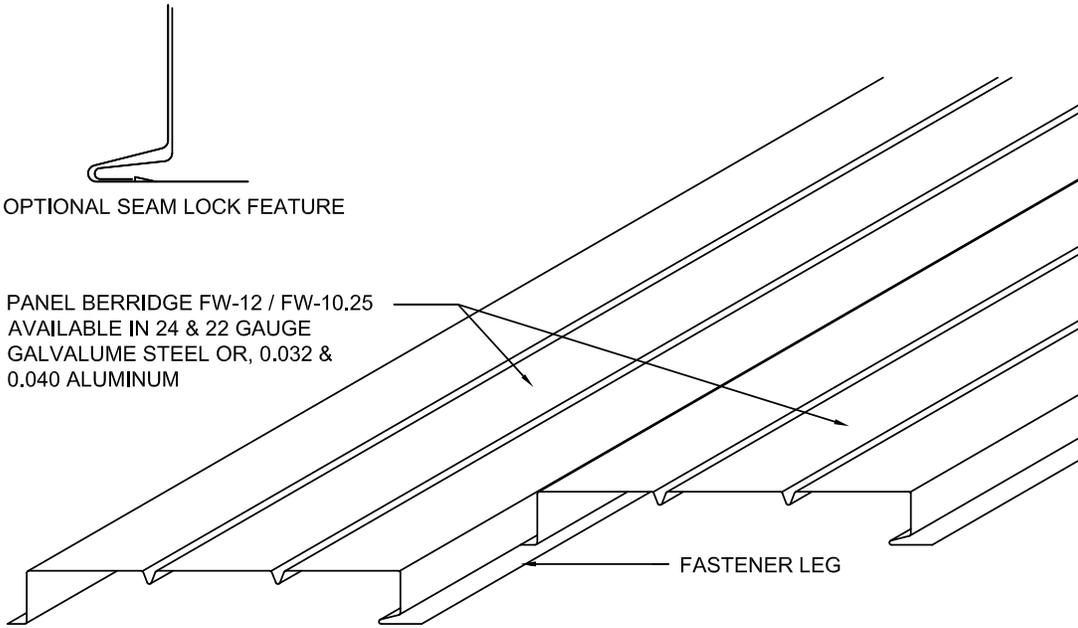
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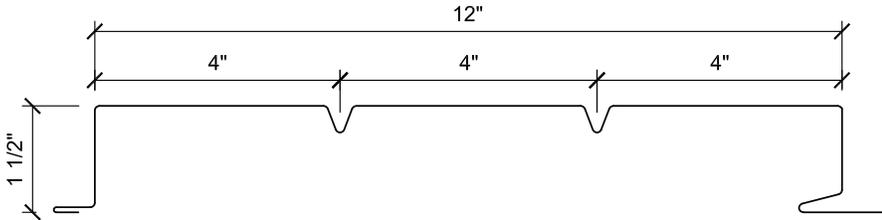
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FW-1025 & FW-12 PANEL

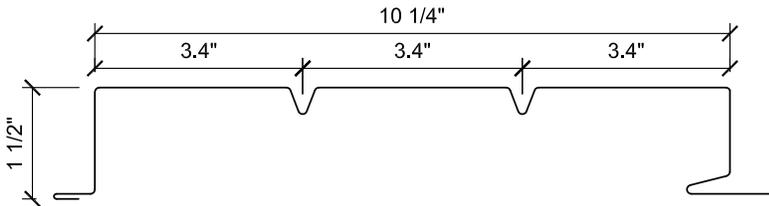
FW-1025 & FW-12 PANEL OVERVIEW



SPANS OVER OPEN FRAMEWORK OR SOLID SHEATHING WITH APPROVED UNDERLAYMENT
HIDDEN FASTENERS
AVAILABLE WITH OUT GROOVES
MAY BE STUCCO EMBOSSED
MAY BE STRIATED
MAY BE VENTED. REFERENCE FWSI-1 ON WWW. BERRIDGE.COM



FW-12 PANEL SECTION



FW-10.25 PANEL SECTION

Fascia, Wall & Soffit Systems

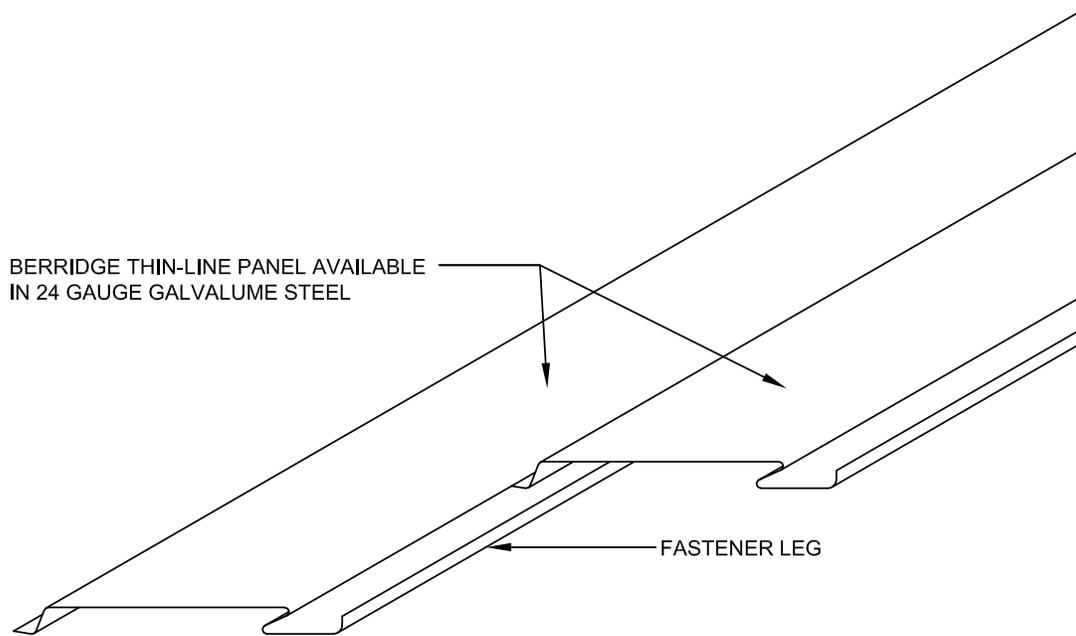
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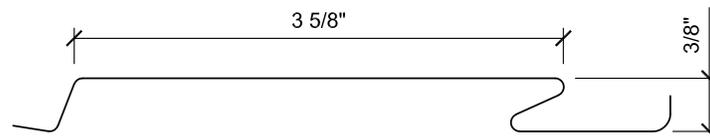
THIN-LINE PANEL

THIN-LINE PANEL OVERVIEW



SPANS OVER OPEN FRAMEWORK OR SOLID
SHEATHING WITH APPROVED UNDERLAYMENT

HIDDEN FASTENERS
OPTIONAL STUCCO EMBOSSED TEXTURE
OPTIONAL WOOD GRAIN EMBOSSED TEXTURE



THIN-LINE PANEL SECTION

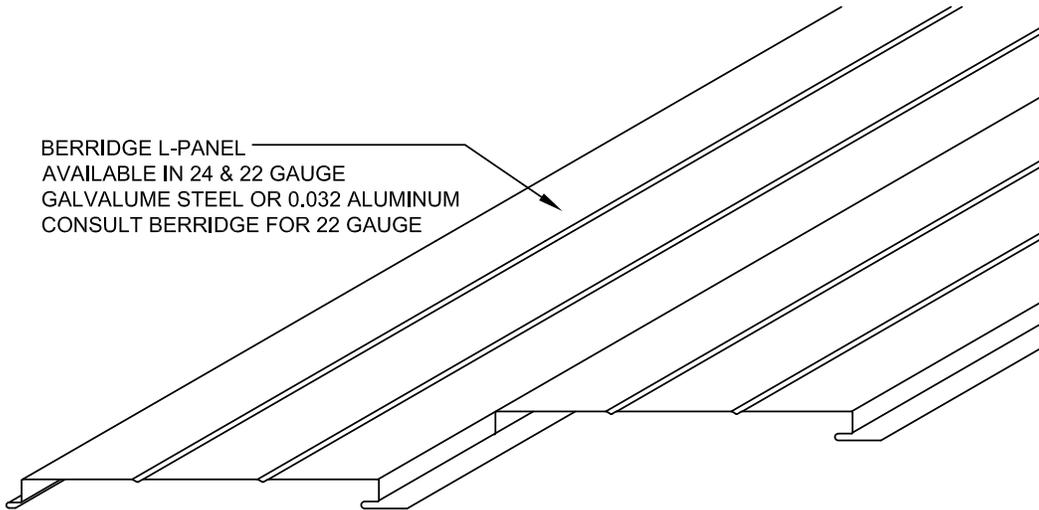
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L-PANEL

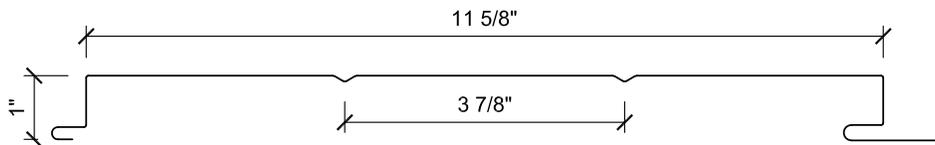
L-PANEL OVERVIEW



BERRIDGE L-PANEL
AVAILABLE IN 24 & 22 GAUGE
GALVALUME STEEL OR 0.032 ALUMINUM
CONSULT BERRIDGE FOR 22 GAUGE

SPANS OVER OPEN FRAMEWORK OR SOLID SHEATHING
WITH APPROVED UNDERLAYMENT

HIDDEN FASTENERS
AVAILABLE WITH ONE GROOVE
AVAILABLE WITH OUT GROOVES
OPTIONAL STUCCO EMBOSSED TEXTURE MAY BE
VENTED. REFERENCE FWSI-1 ON WWW.BERRIDGE.COM



L-PANEL SECTION

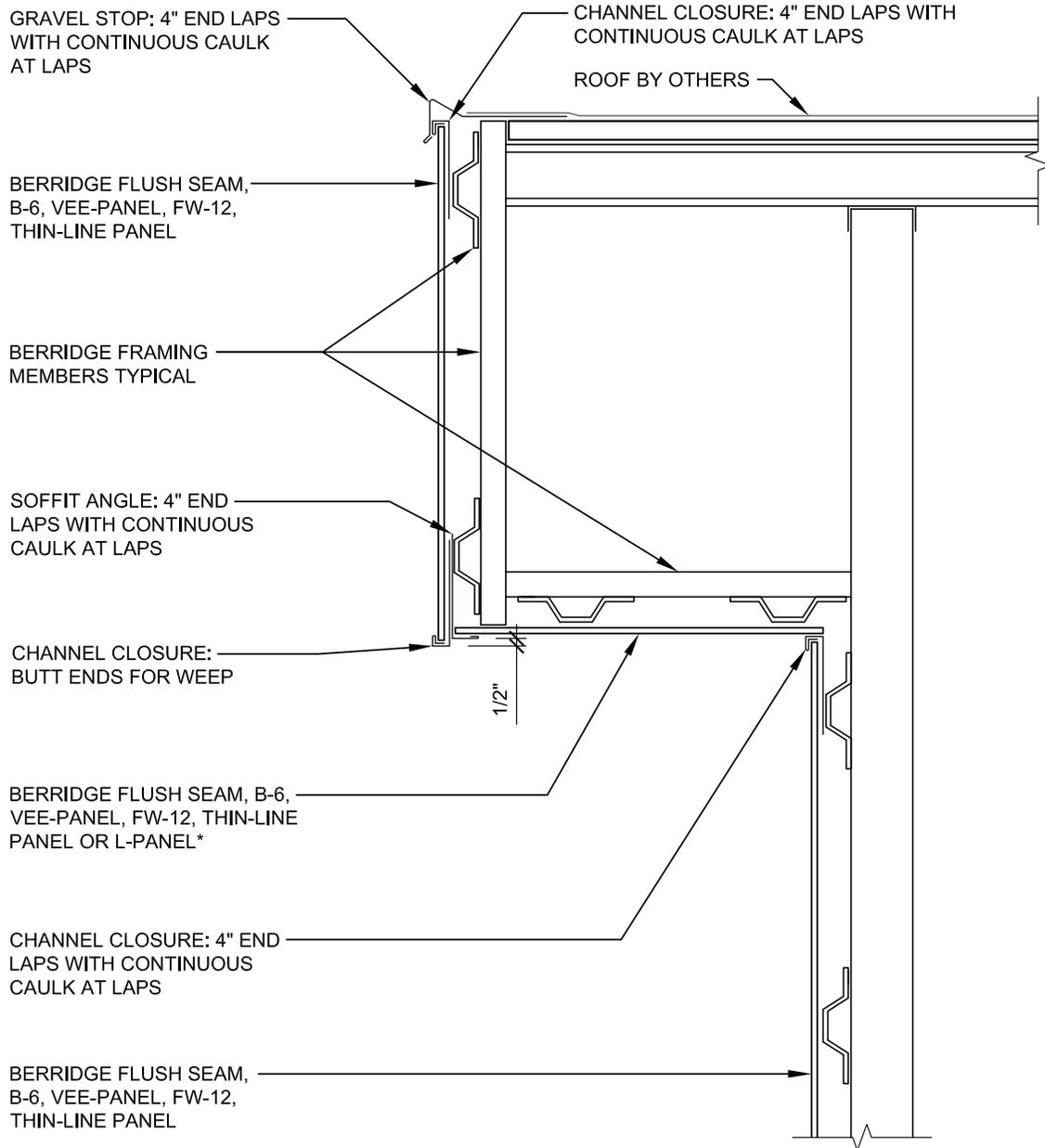
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VERTICAL FASCIA, WALL & SOFFIT PANELS

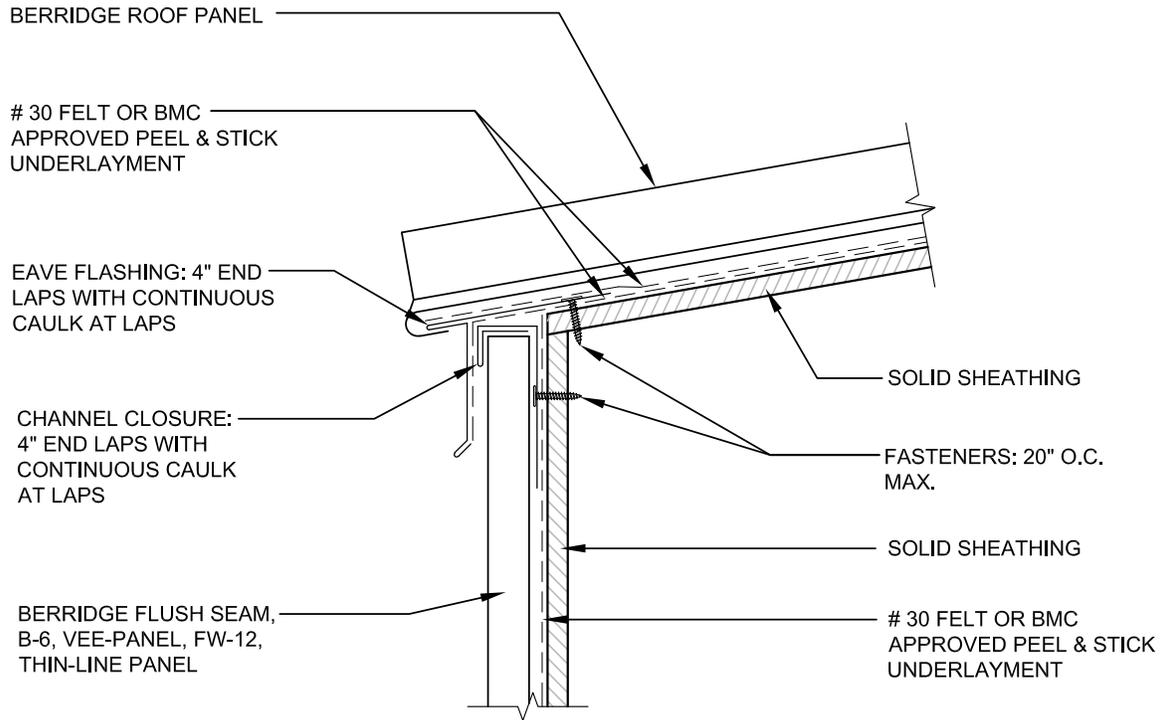
TYPICAL OPEN FRAMING DETAIL



*NOTE: L-PANEL NOT TO BE USED AS WALL PANEL

VERTICAL FASCIA, WALL & SOFFIT PANELS

EAVE DETAIL - SOLID SHEATHING

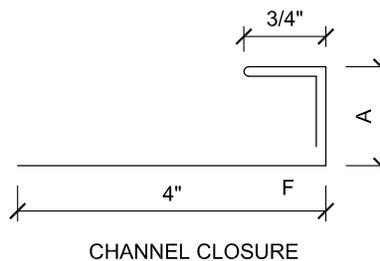


1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

DIMENSION - A

- 5/8" = FLUSH SEAM
- 3/4" = B-6
- 1/2" = VEE-PANEL
- 1 5/8" = FW-12, FW-10.25
- 1/2" = THIN-LINE

F = FINISH SIDE
FV = FIELD VERIFY



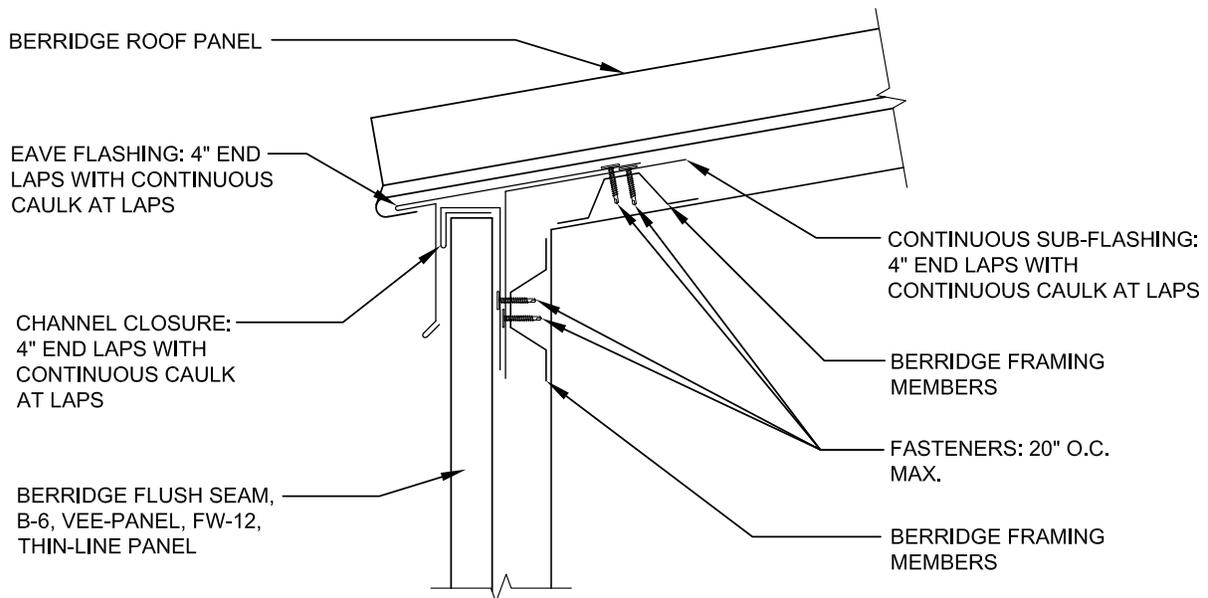
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VERTICAL FASCIA, WALL & SOFFIT PANELS

EAVE DETAIL - OPEN FRAMING

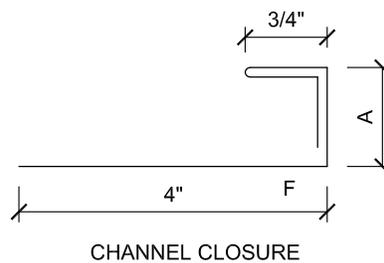


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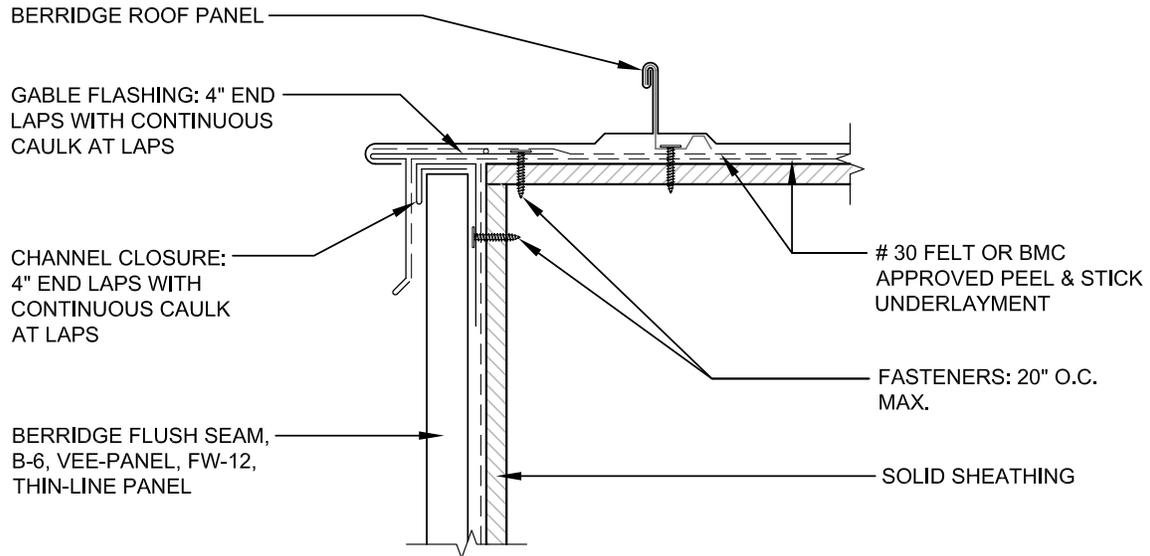
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VERTICAL FASCIA, WALL & SOFFIT PANELS

GABLE DETAIL - SOLID SHEATHING

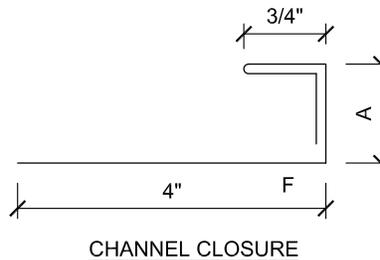


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- 1" = THIN-LINE

F = FINISH SIDE
FV = FIELD VERIFY



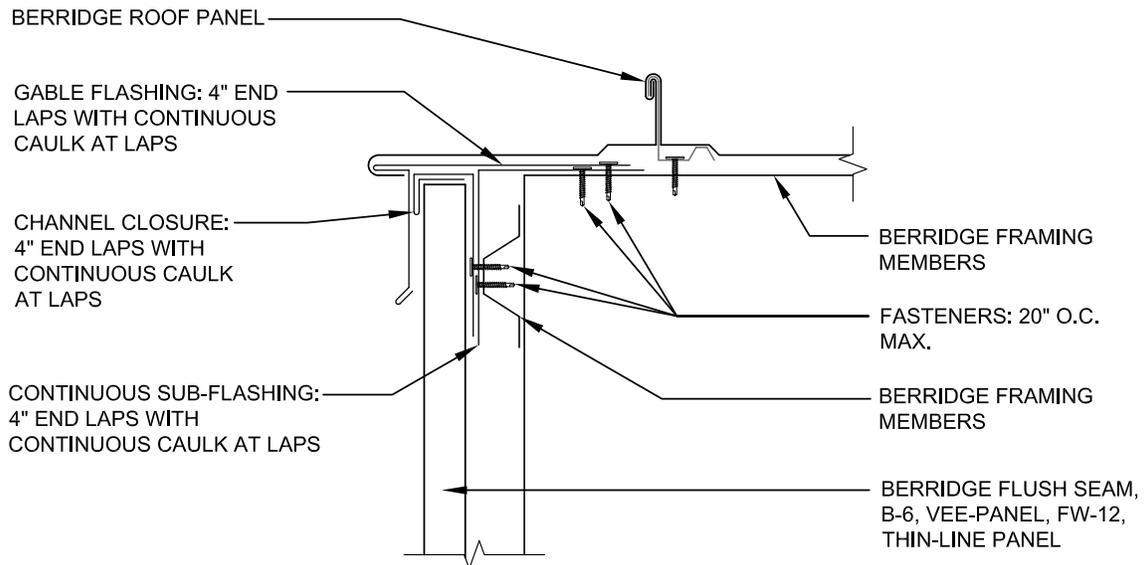
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VERTICAL FASCIA, WALL & SOFFIT PANELS

GABLE DETAIL - OPEN FRAMING

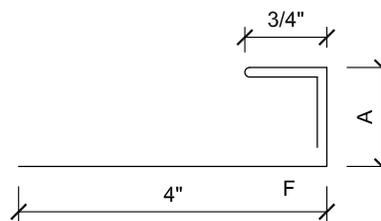


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- $1\frac{5}{8}$ " = FW-12, FW-10.25
- $\frac{1}{2}$ " = THIN-LINE

F = FINISH SIDE
FV = FIELD VERIFY



CHANNEL CLOSURE

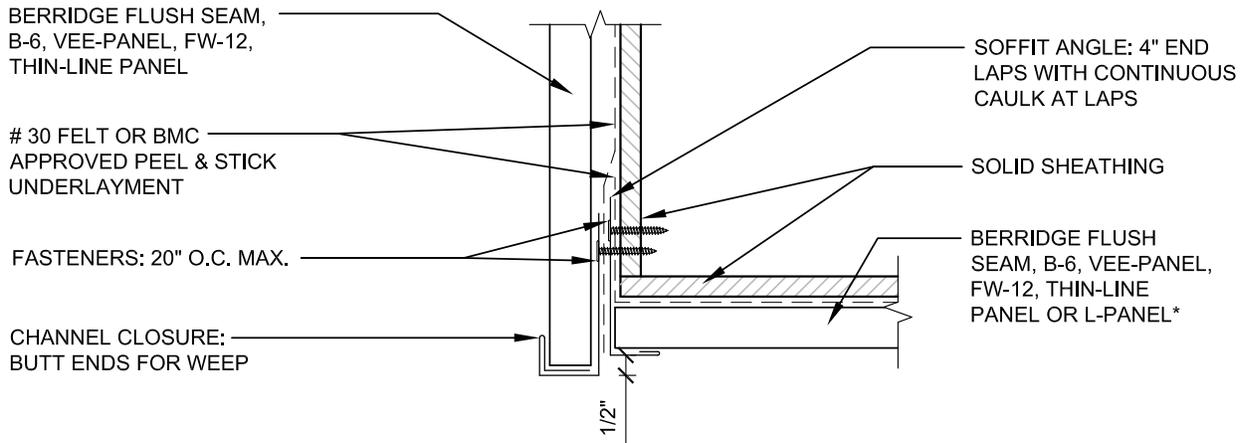
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VERTICAL FASCIA, WALL & SOFFIT PANELS

FASCIA TO SOFFIT DETAIL - SOLID SHEATHING



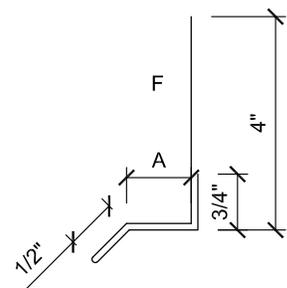
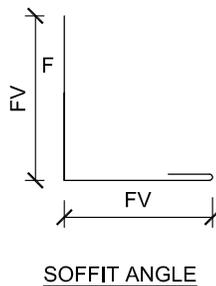
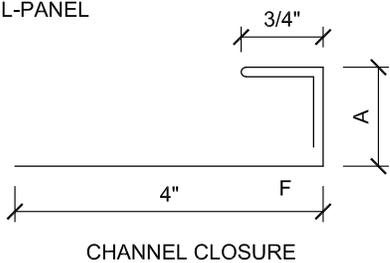
*NOTE: L-PANEL NOT TO BE USED AS WALL PANEL

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- 1/2" = VEE-PANEL
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- 1" = THIN-LINE
- 1 1/8" = L-PANEL

F = FINISH SIDE
FV = FIELD VERIFY



DRIP FLASHING
DRIP FLASHING MAYBE USED IN PLACE OF CHANNEL CLOSURE. FLASHING TO HAVE 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

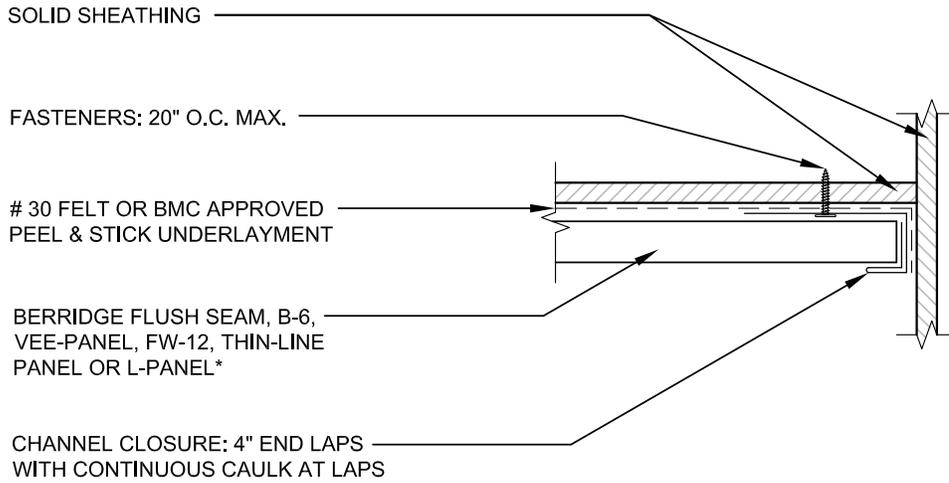
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VERTICAL FASCIA, WALL & SOFFIT PANELS

SOFFIT TO BUILDING DETAIL - SOLID SHEATHING



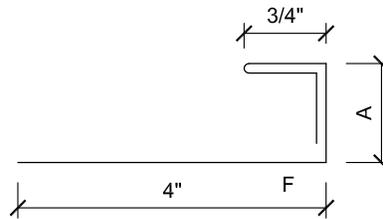
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- $\frac{1}{2}$ " = THIN-LINE
- $1\frac{1}{8}$ " = L-PANEL

F = FINISH SIDE
FV = FIELD VERIFY



CHANNEL CLOSURE

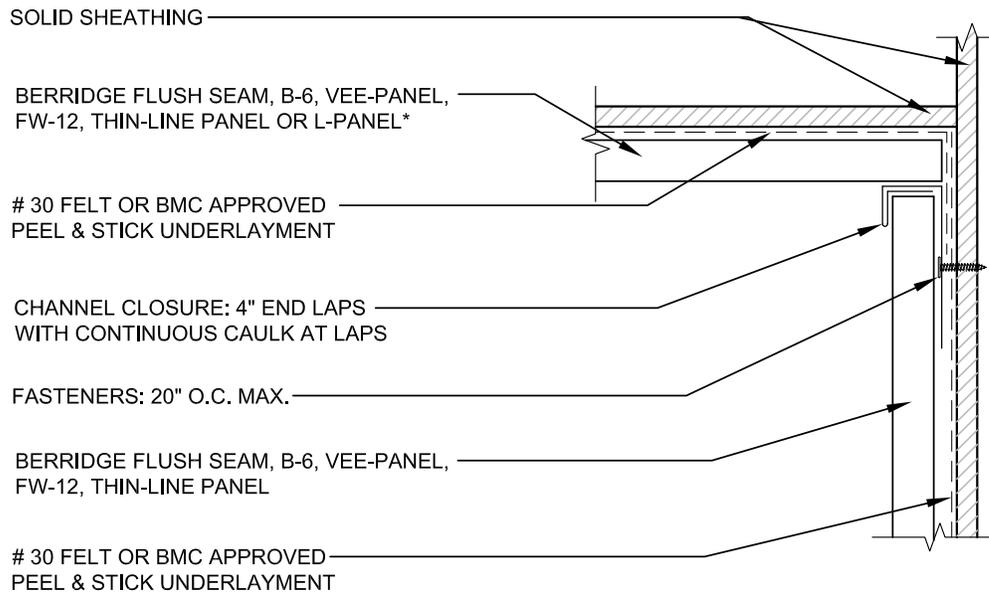
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VERTICAL FASCIA, WALL & SOFFIT PANELS

SOFFIT TO WALL PANEL DETAIL - SOLID SHEATHING

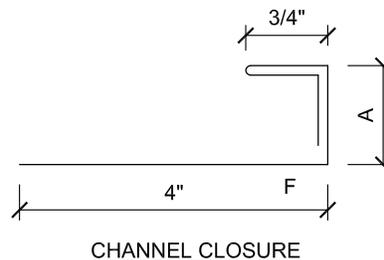


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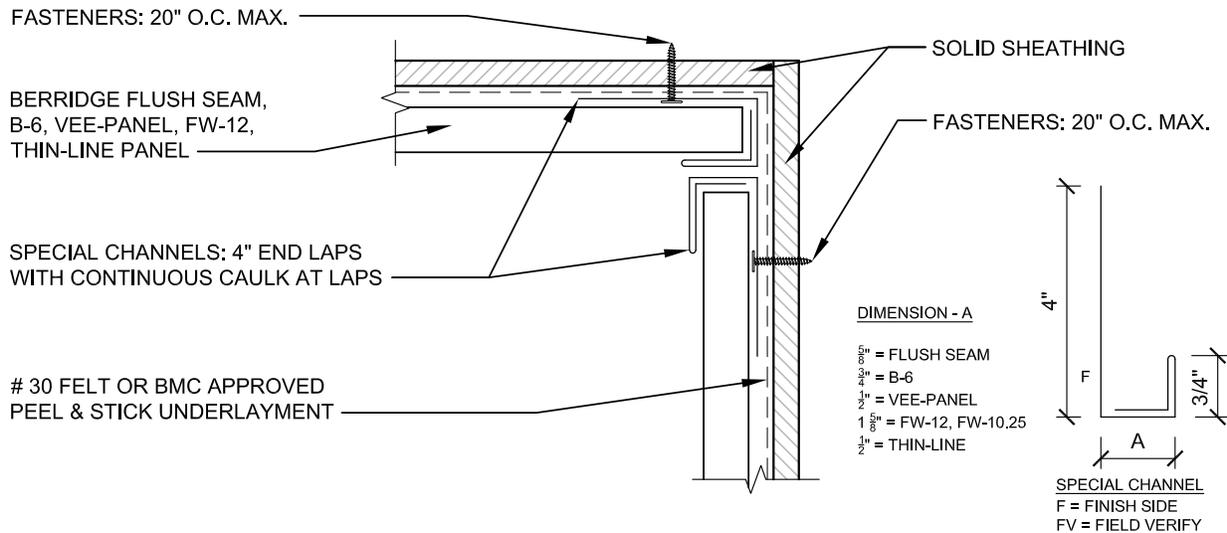
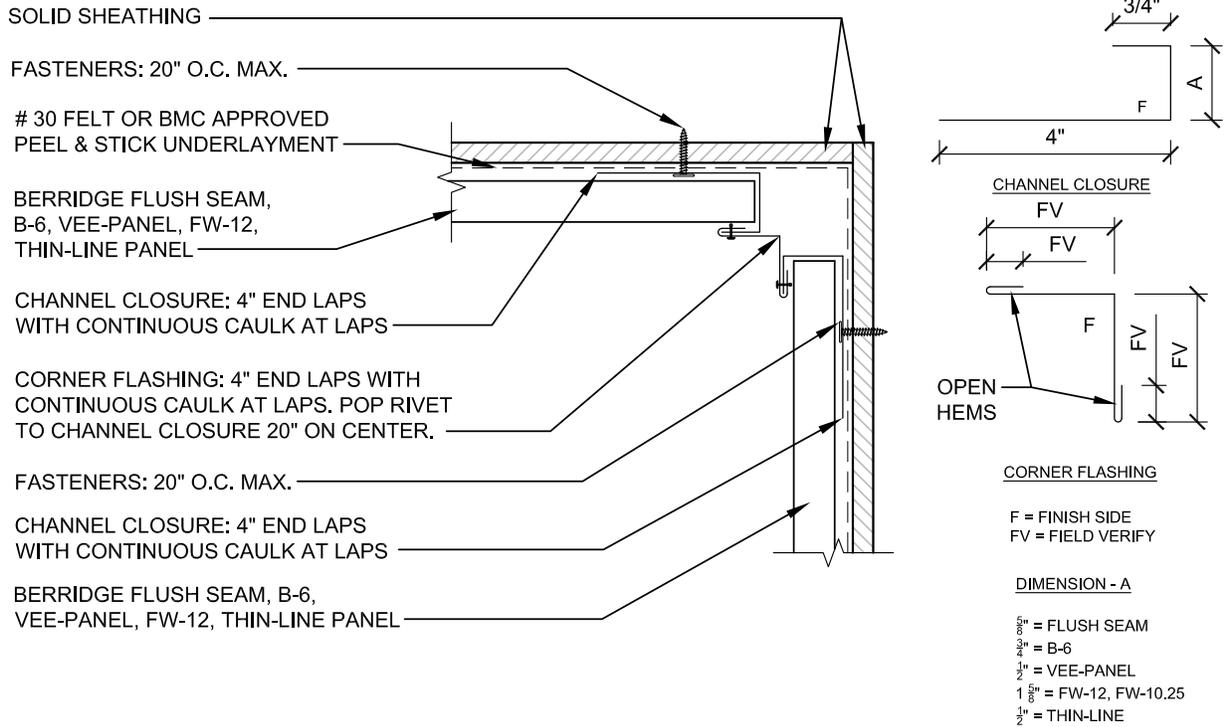
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VERTICAL FASCIA, WALL & SOFFIT PANELS

INSIDE CORNER DETAIL - SOLID SHEATHING



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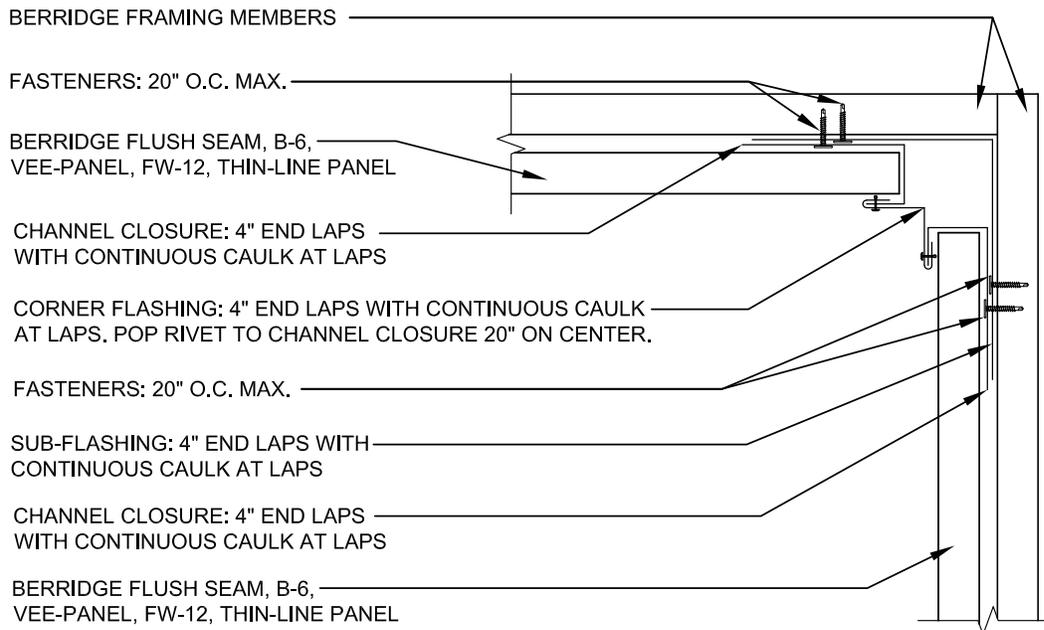
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VERTICAL FASCIA, WALL & SOFFIT PANELS

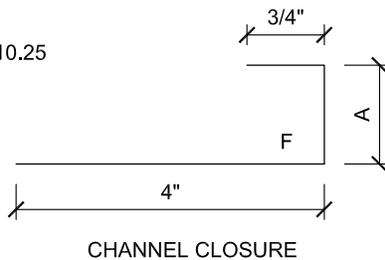
INSIDE CORNER DETAIL - OPEN FRAMING



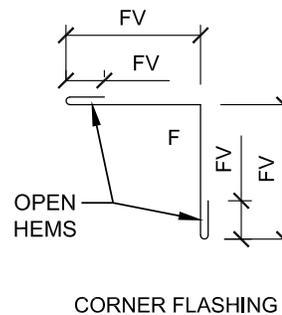
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F = FINISH SIDE
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VERTICAL FASCIA, WALL & SOFFIT PANELS

OUTSIDE CORNER DETAIL - SOLID SHEATHING

BERRIDGE FLUSH SEAM, B-6,
VEE-PANEL, FW-12, THIN-LINE PANEL

FASTENERS: 20" O.C. MAX.

CHANNEL CLOSURE: 4" END LAPS
WITH CONTINUOUS CAULK AT LAPS

CORNER FLASHING: 4" END LAPS WITH
CONTINUOUS CAULK AT LAPS. POP RIVET
TO CHANNEL CLOSURE 20" ON CENTER.

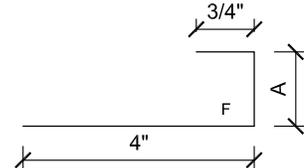
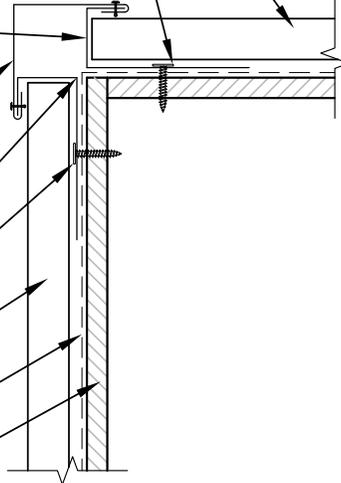
CHANNEL CLOSURE: 4" END LAPS
WITH CONTINUOUS CAULK AT LAPS

FASTENERS: 20" O.C. MAX.

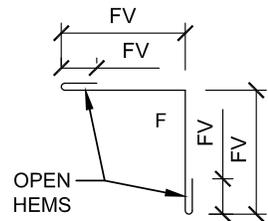
BERRIDGE FLUSH SEAM, B-6,
VEE-PANEL, FW-12, THIN-LINE PANEL

30 FELT OR BMC APPROVED
PEEL & STICK UNDERLAYMENT

SOLID SHEATHING



CHANNEL CLOSURE



CORNER FLASHING

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FV = FIELD VERIFY

DIMENSION - A

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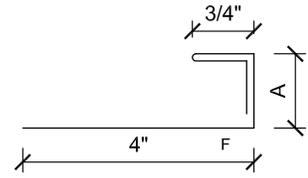
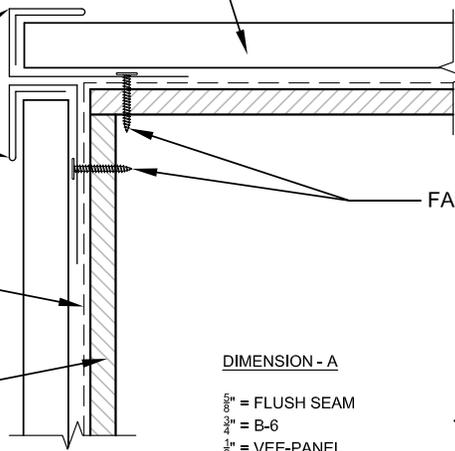
BERRIDGE FLUSH SEAM, B-6,
VEE-PANEL, FW-12, THIN-LINE PANEL

SPECIAL CHANNELS: 4" END
LAPS WITH CONTINUOUS
CAULK AT LAPS

30 FELT OR BMC
APPROVED PEEL &
STICK UNDERLAYMENT

SOLID SHEATHING

FASTENERS: 20" O.C. MAX.



SPECIAL CHANNEL

F = FINISH SIDE
FV = FIELD VERIFY

DIMENSION - A

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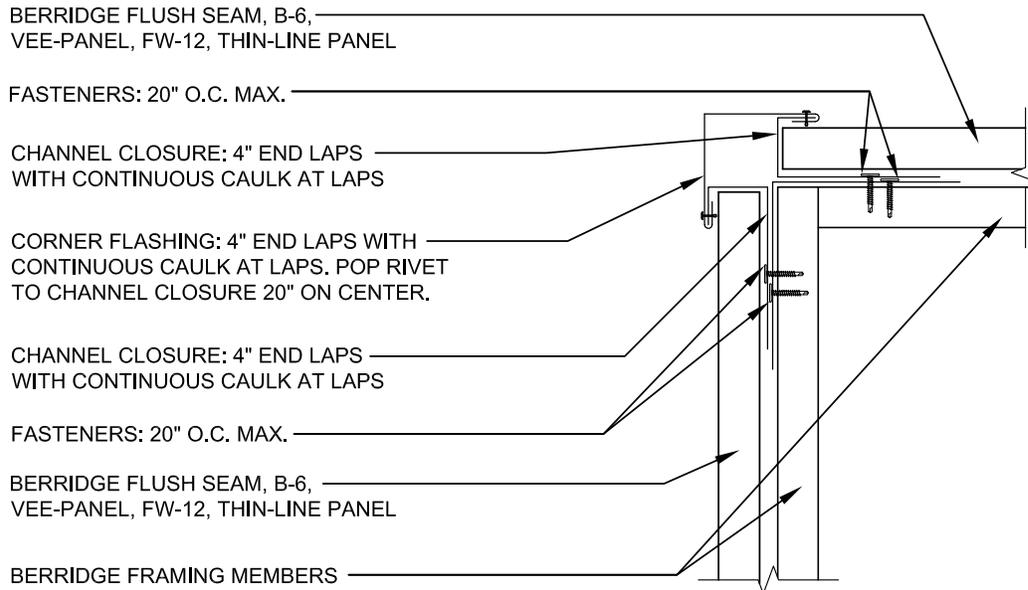
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VERTICAL FASCIA, WALL & SOFFIT PANELS

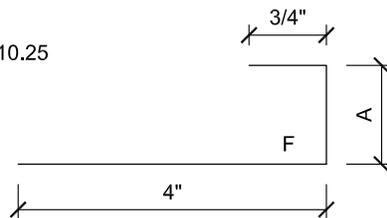
OUTSIDE CORNER DETAIL - OPEN FRAMING



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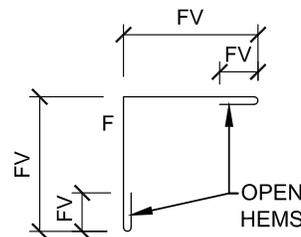
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- $1\frac{5}{8}$ " = FW-12, FW-10.25
- $\frac{1}{2}$ " = THIN-LINE



CHANNEL CLOSURE

F = FINISH SIDE
FV = FIELD VERIFY



CORNER FLASHING

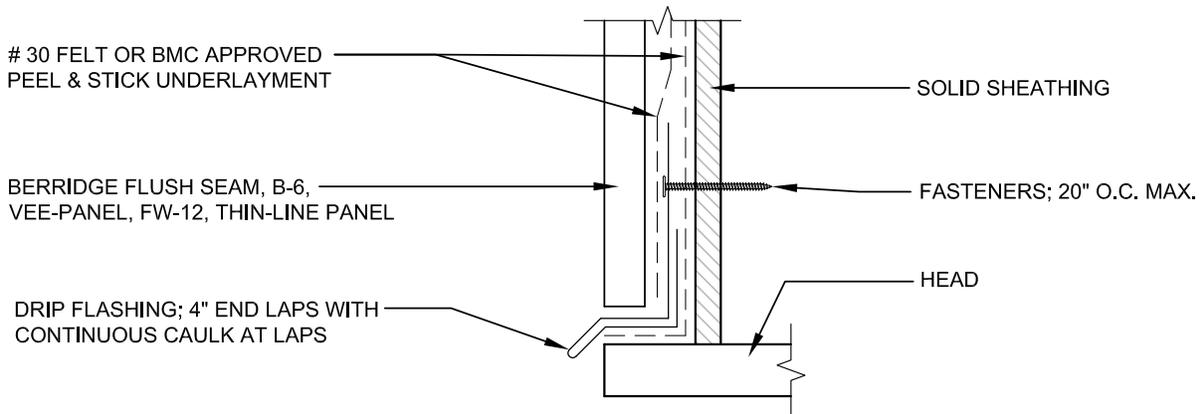
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VERTICAL FASCIA, WALL & SOFFIT PANELS

HEADER DETAIL - SOLID SHEATHING

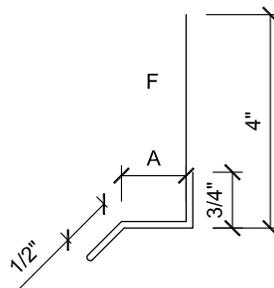


1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

DIMENSION - A

- $\frac{5}{8}$ " = FLUSH SEAM
- $\frac{3}{4}$ " = B-6
- $\frac{1}{2}$ " = VEE-PANEL
- $\frac{1}{8}$ " = FW-12, FW-10.25
- $\frac{1}{2}$ " = THIN-LINE

F = FINISH SIDE
FV = FIELD VERIFY



DRIP FLASHING

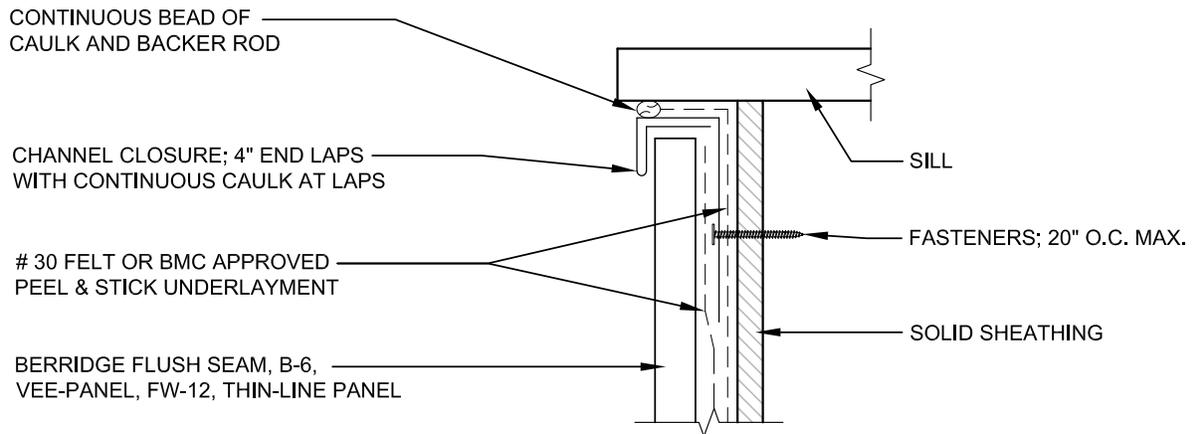
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VERTICAL FASCIA, WALL & SOFFIT PANELS

SILL DETAIL - SOLID SHEATHING

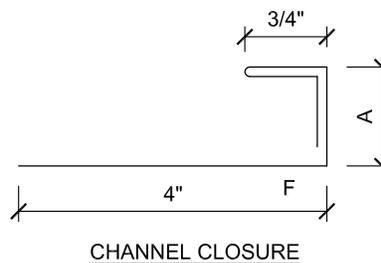


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 $\frac{1}{2}$ " = THIN-LINE

F = FINISH SIDE
 FV = FIELD VERIFY



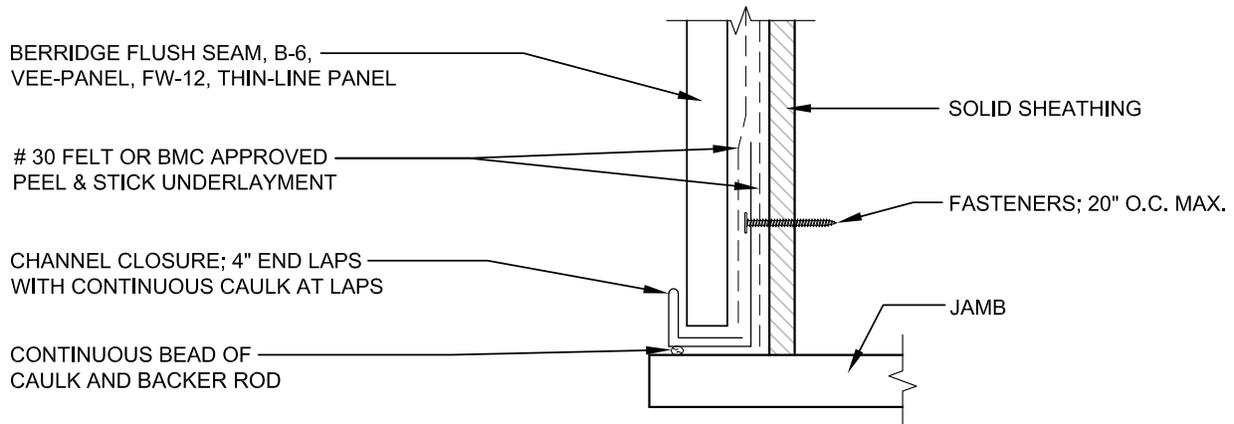
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JAMB DETAIL - SOLID SHEATHING

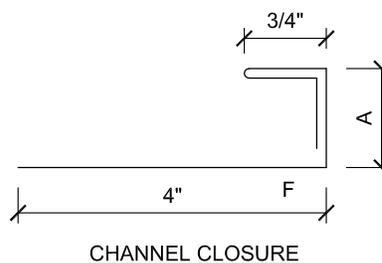


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DIMENSION - A

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- 3/4" = B-6
- 1/2" = VEE-PANEL
- 1 5/8" = FW-12, FW-10.25
- 1/2" = THIN-LINE

F = FINISH SIDE
FV = FIELD VERIFY



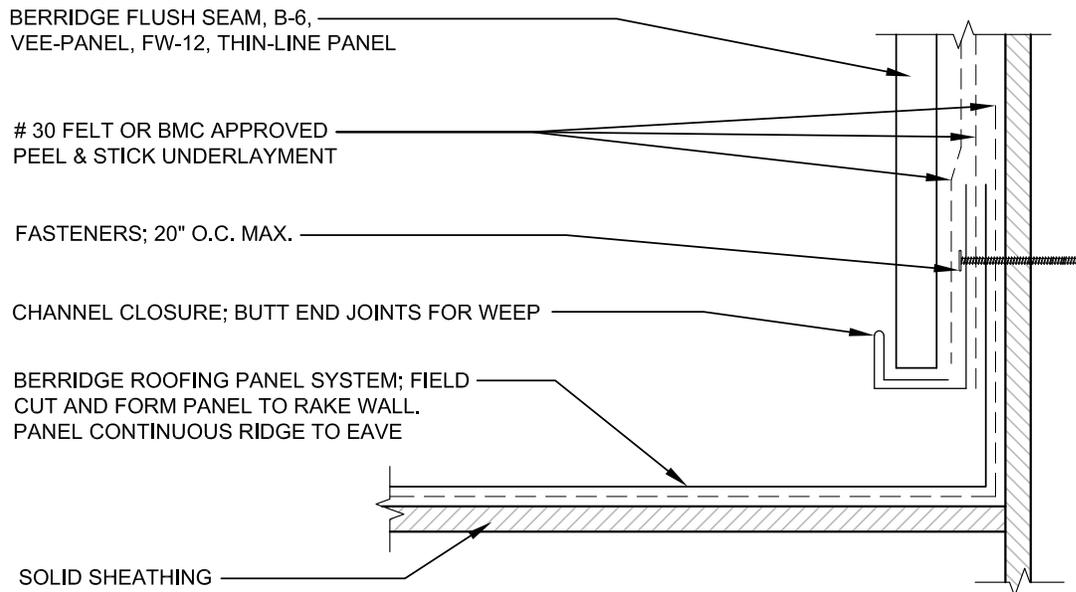
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VERTICAL FASCIA, WALL & SOFFIT PANELS

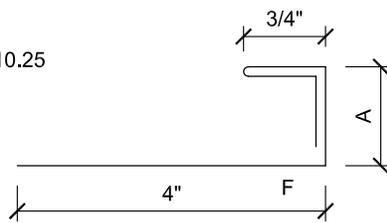
RAKE WALL DETAIL - SOLID SHEATHING



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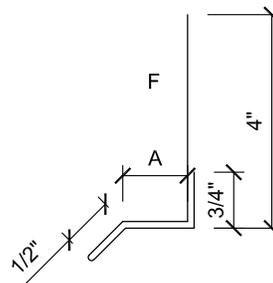
DIMENSION - A

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- 1/2" = VEE-PANEL
- 1 5/8" = FW-12, FW-10.25
- 1" = THIN-LINE



CHANNEL CLOSURE

F = FINISH SIDE
FV = FIELD VERIFY



DRIP FLASHING
DRIP FLASHING MAYBE USED IN PLACE OF CHANNEL CLOSURE. FLASHING TO HAVE 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

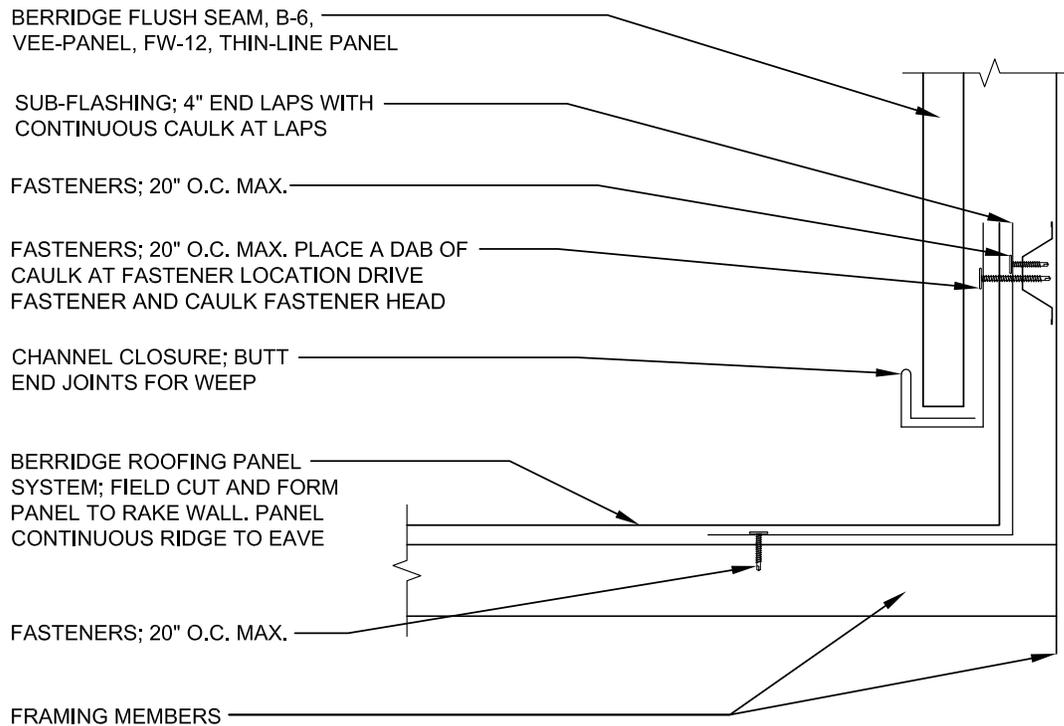
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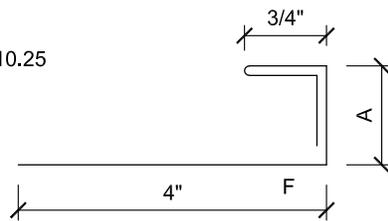
RAKE WALL DETAIL - OPEN FRAMING



1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)

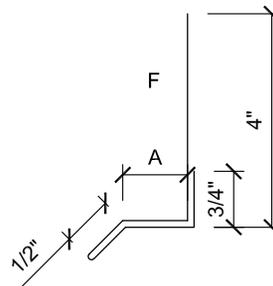
DIMENSION - A

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- $\frac{1}{2}$ " = THIN-LINE



CHANNEL CLOSURE

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PLACE OF CHANNEL CLOSURE.
FLASHING TO HAVE 4" END LAPS
WITH CONTINUOUS CAULK AT LAPS

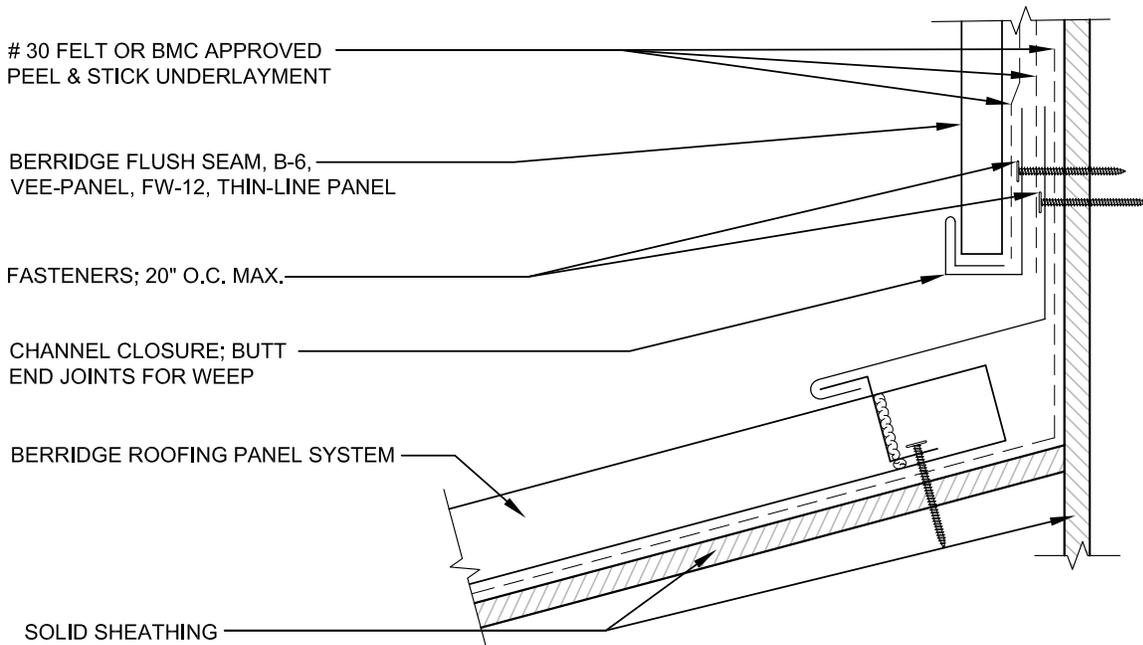
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VERTICAL FASCIA, WALL & SOFFIT PANELS

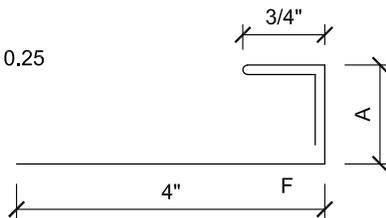
HEAD WALL DETAIL - SOLID SHEATHING



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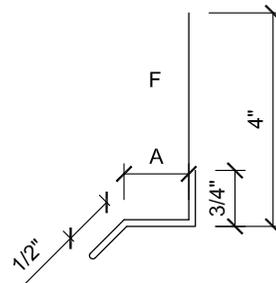
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CHANNEL CLOSURE

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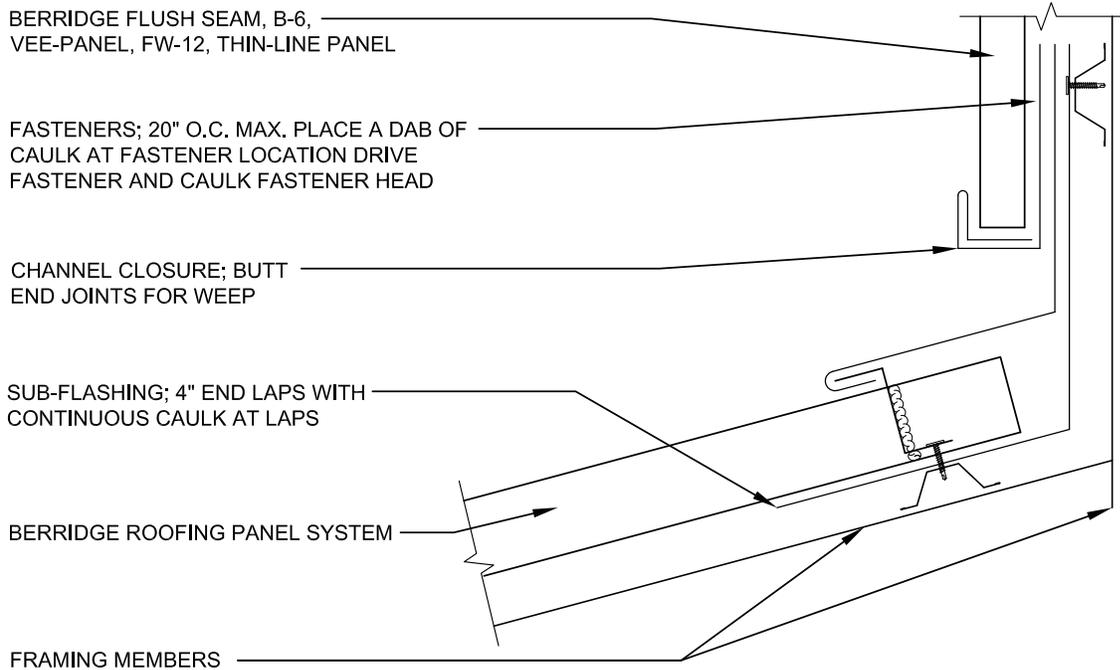
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VERTICAL FASCIA, WALL & SOFFIT PANELS

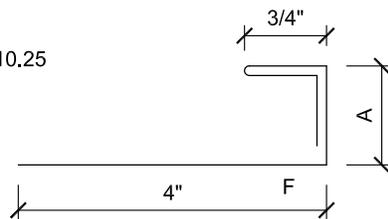
HEAD WALL DETAIL - OPEN FRAMING



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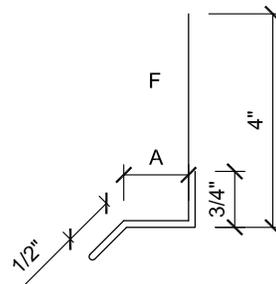
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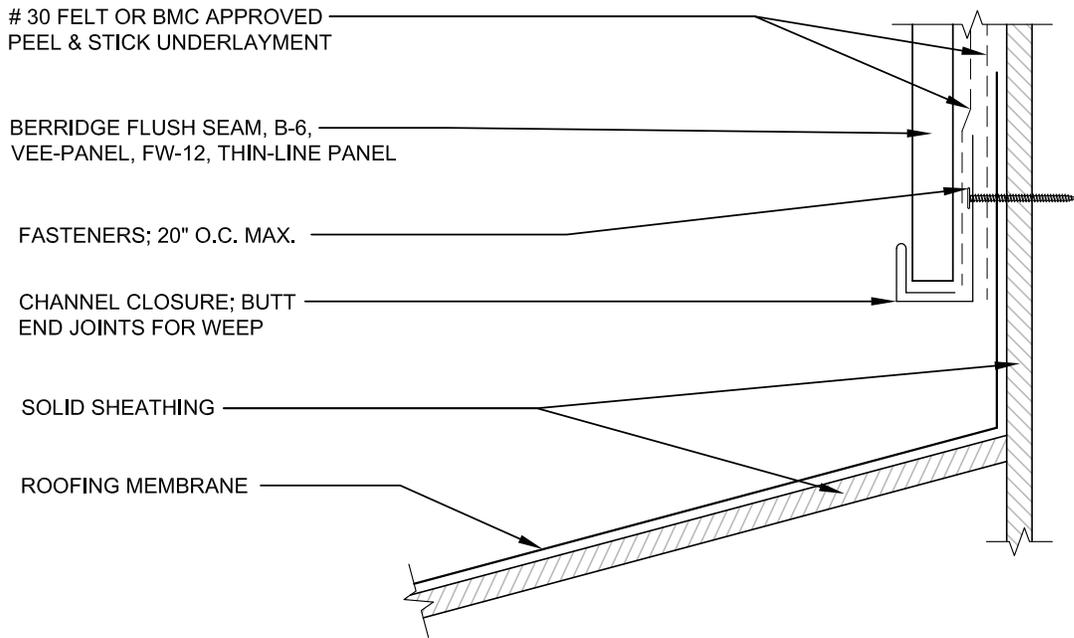
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VERTICAL FASCIA, WALL & SOFFIT PANELS

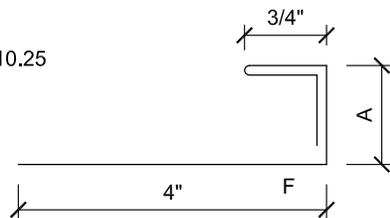
BASE DETAIL - SOLID SHEATHING



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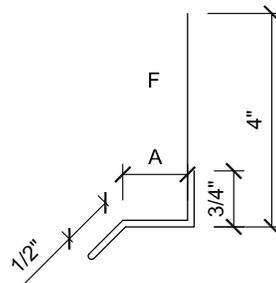
DIMENSION - A

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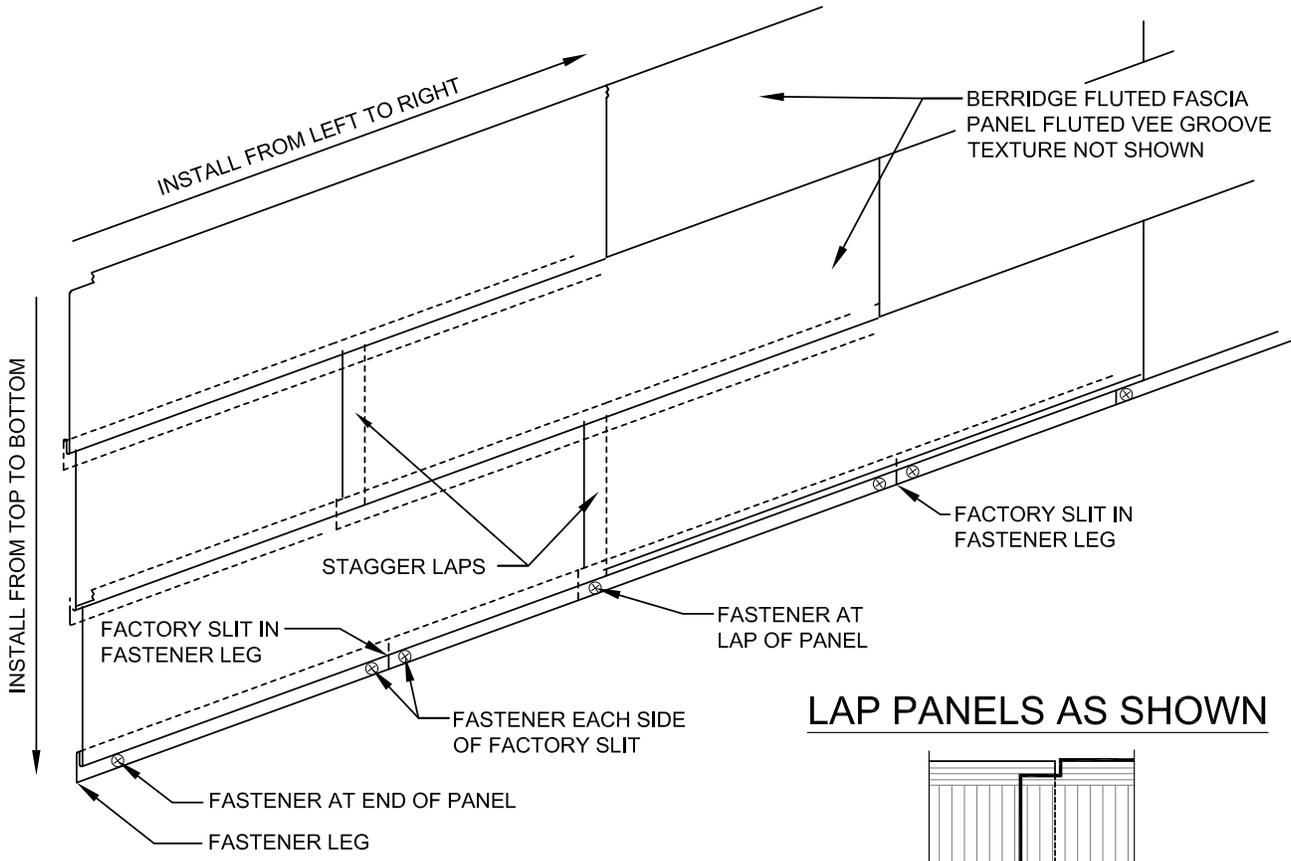
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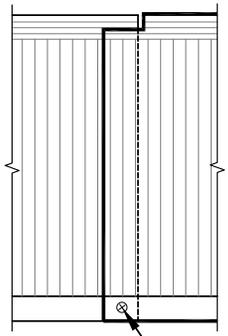
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FLUTED FASCIA PANEL

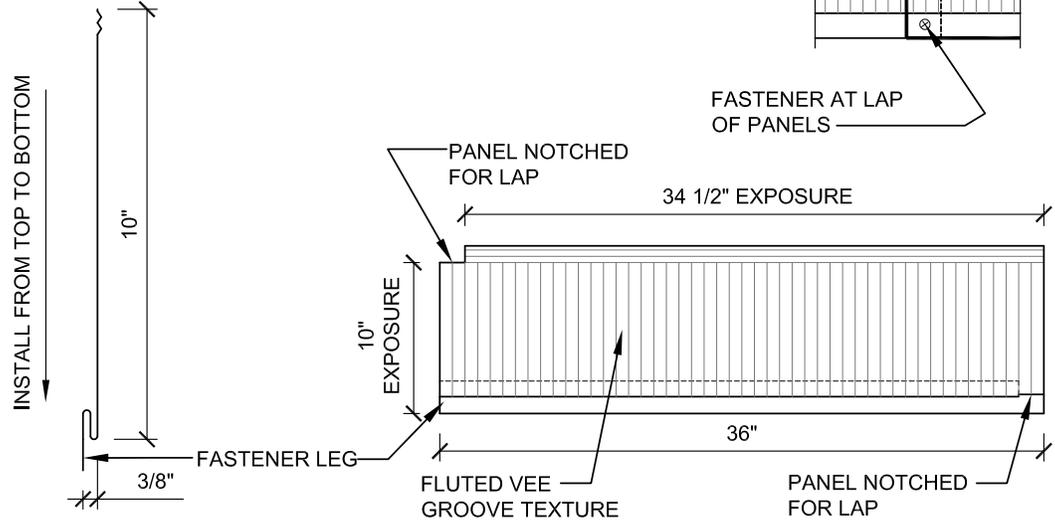
FLUTED FASCIA PANEL OVERVIEW



LAP PANELS AS SHOWN



34-1/2" X 10" (NOMINAL) EXPOSURE PANEL
INTERLOCK FOR WIND RESISTANCE
HIDDEN FASTENERS



PANEL SECTION

FLUTED FASCIA PANEL

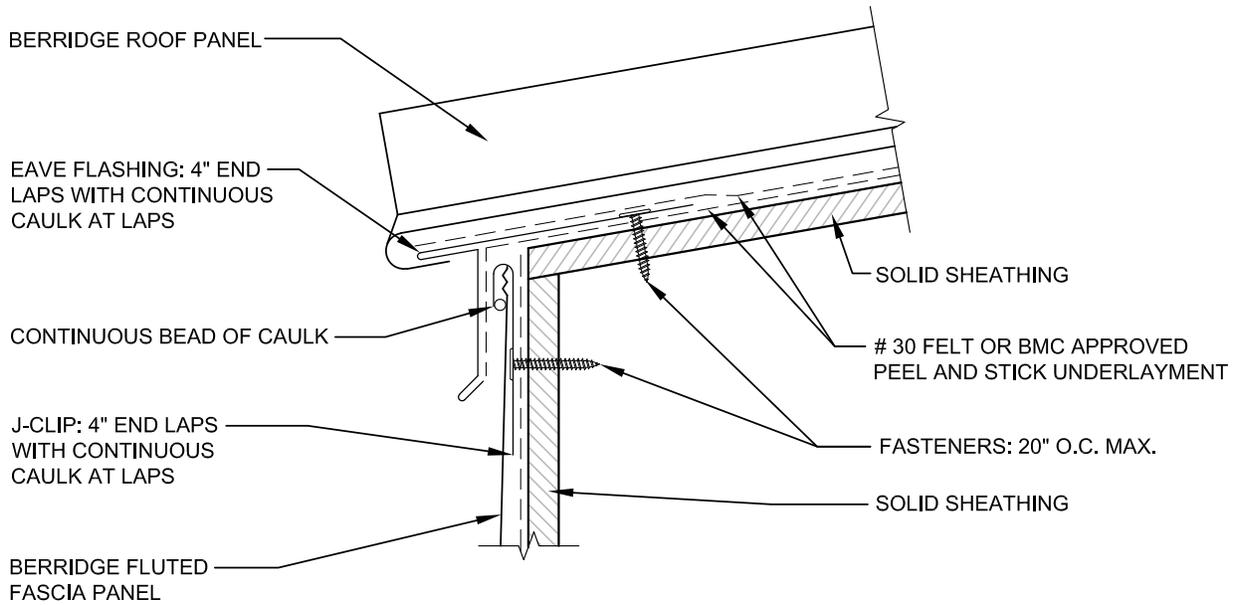
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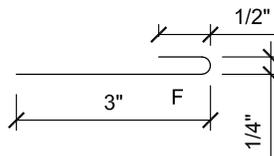
FLUTED FASCIA PANEL

EAVE DETAIL



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J-CLIP

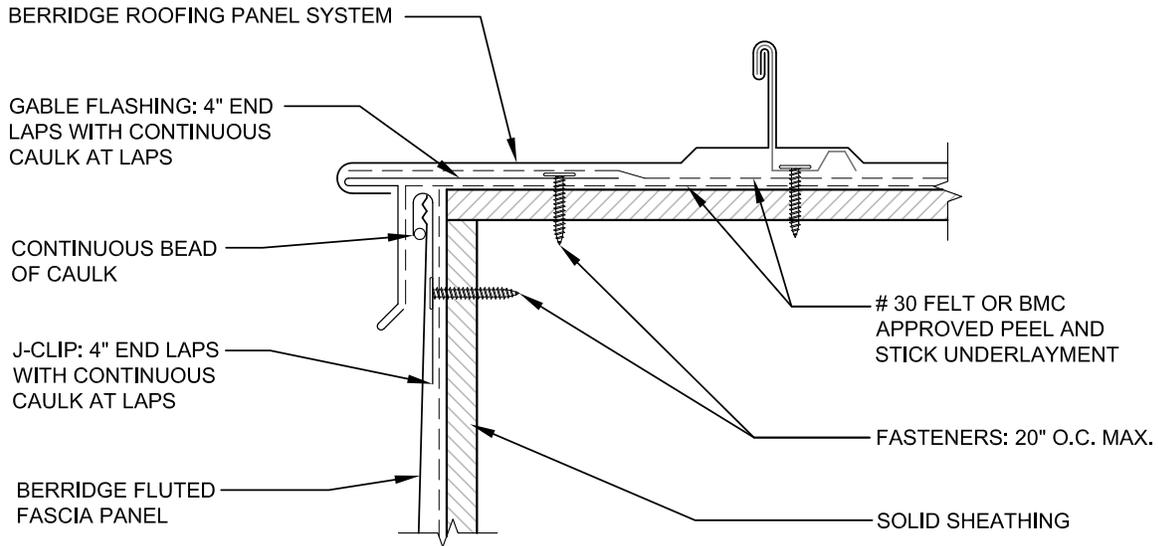
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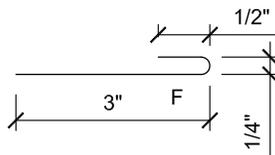
FLUTED FASCIA PANEL

GABLE DETAIL



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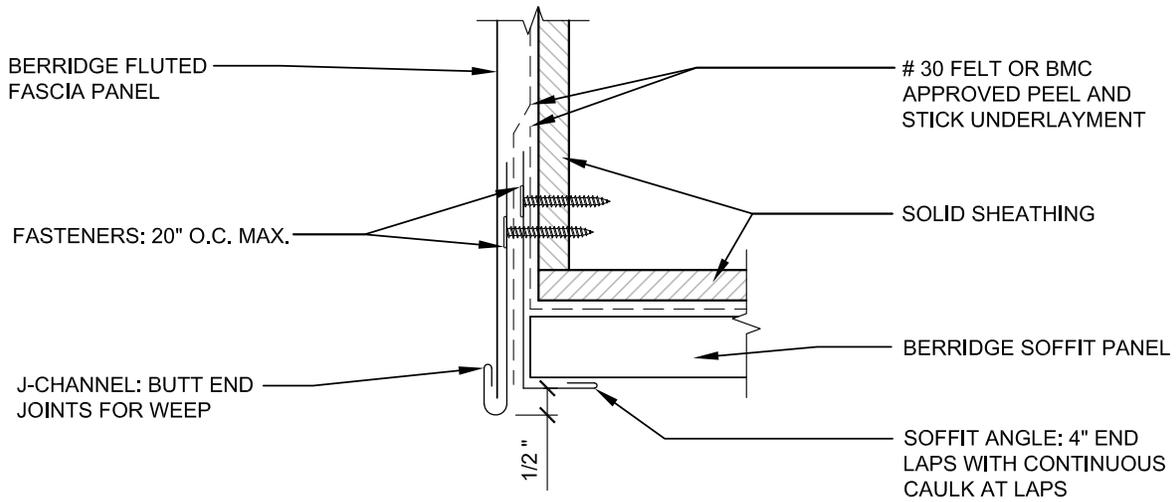
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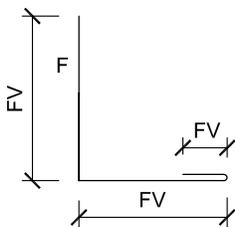
FLUTED FASCIA PANEL

FASCIA TO SOFFIT DETAIL

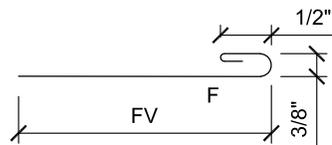


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SOFFIT ANGLE



J-CHANNEL

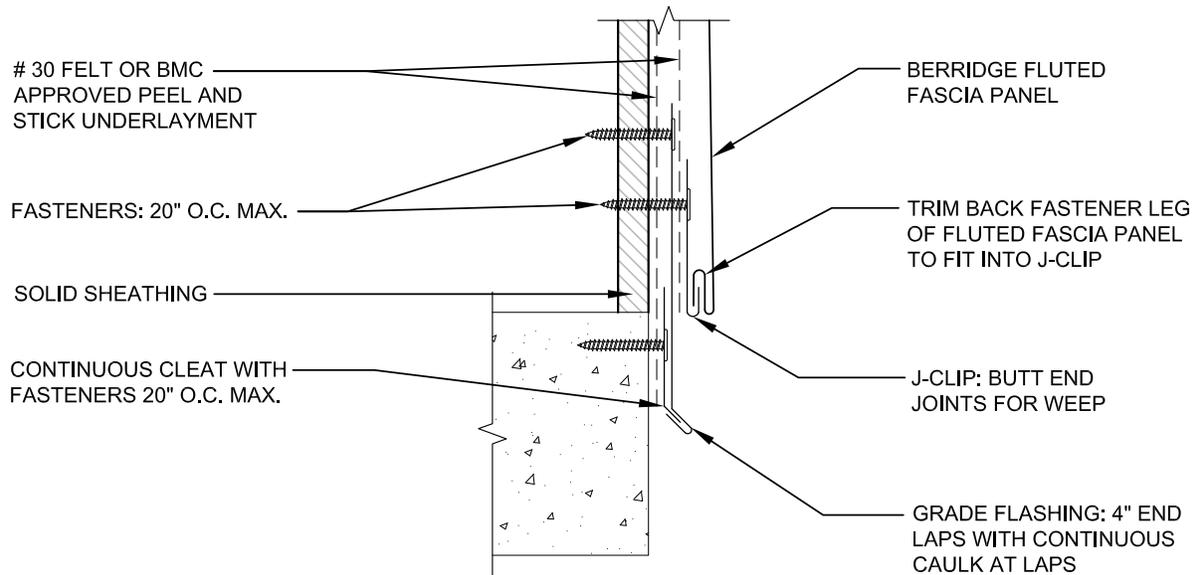
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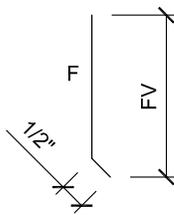
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FLUTED FASCIA PANEL

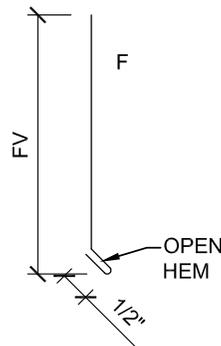
SILL AT SLAB DETAIL



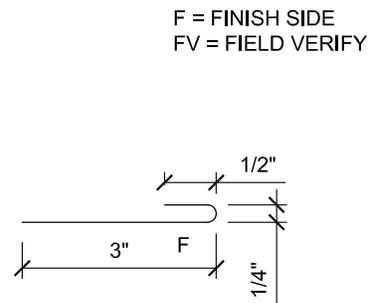
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CONTINUOUS CLEAT



GRADE FLASHING



J-CLIP

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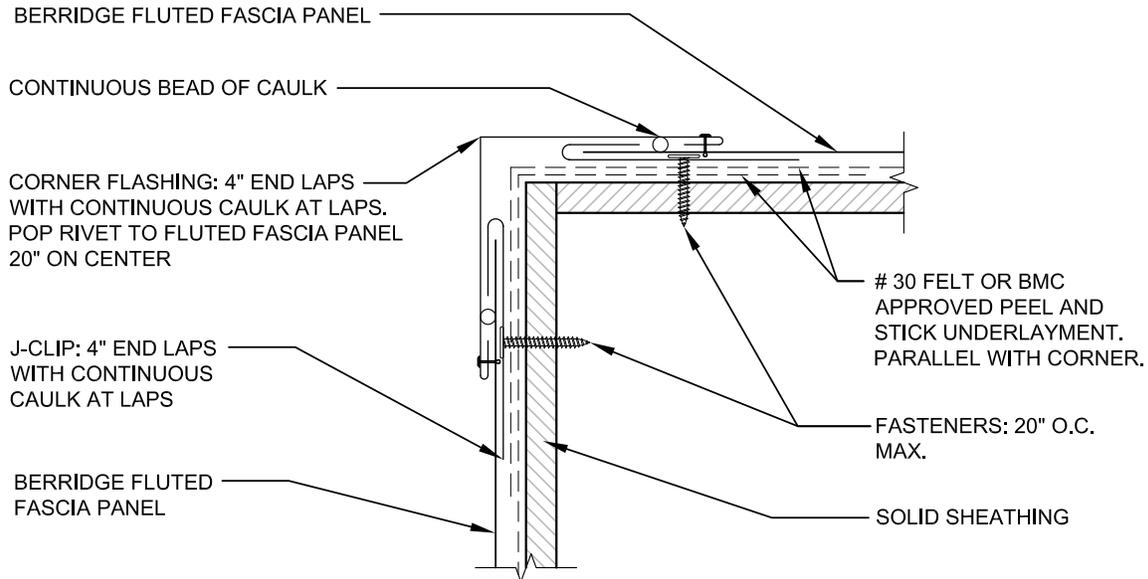
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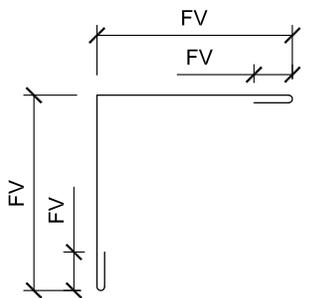
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FLUTED FASCIA PANEL

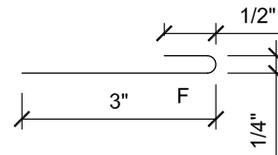
OUTSIDE CORNER DETAIL



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CORNER FLASHING



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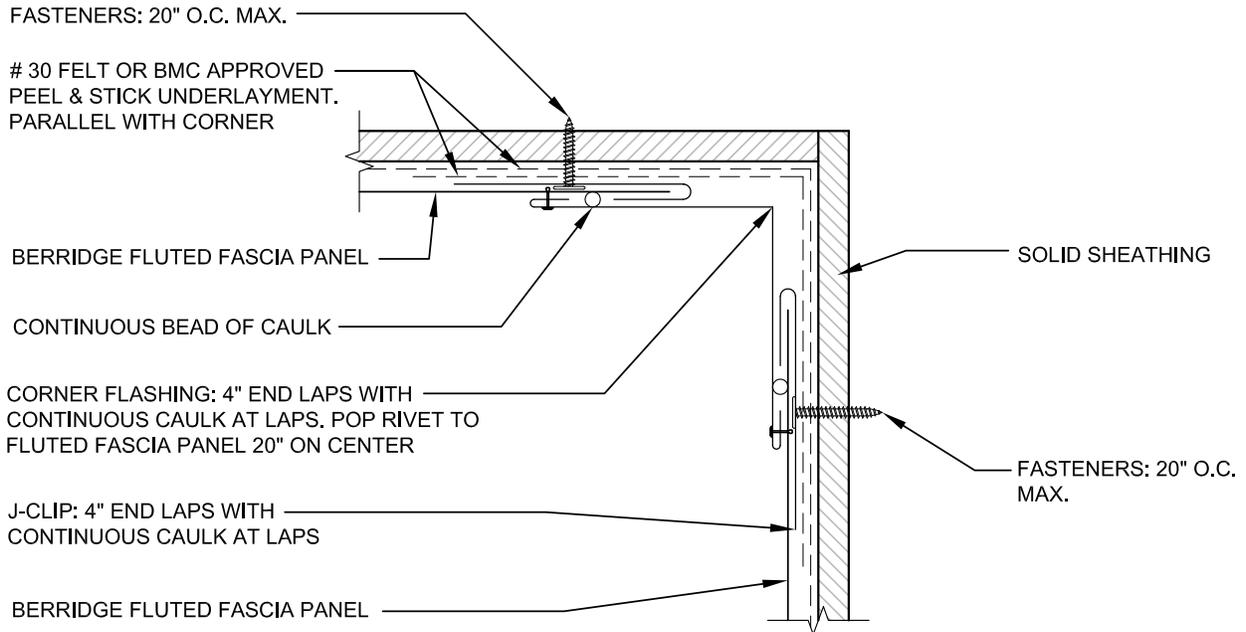
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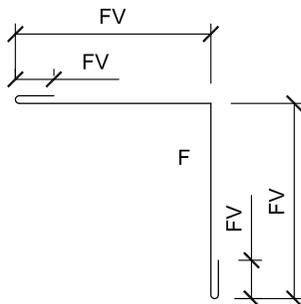
FLUTED FASCIA PANEL

INSIDE CORNER DETAIL

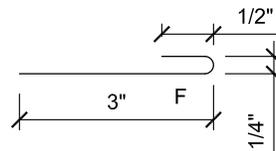


1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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F = FINISH SIDE
FV = FIELD VERIFY



CORNER FLASHING



J-CLIP

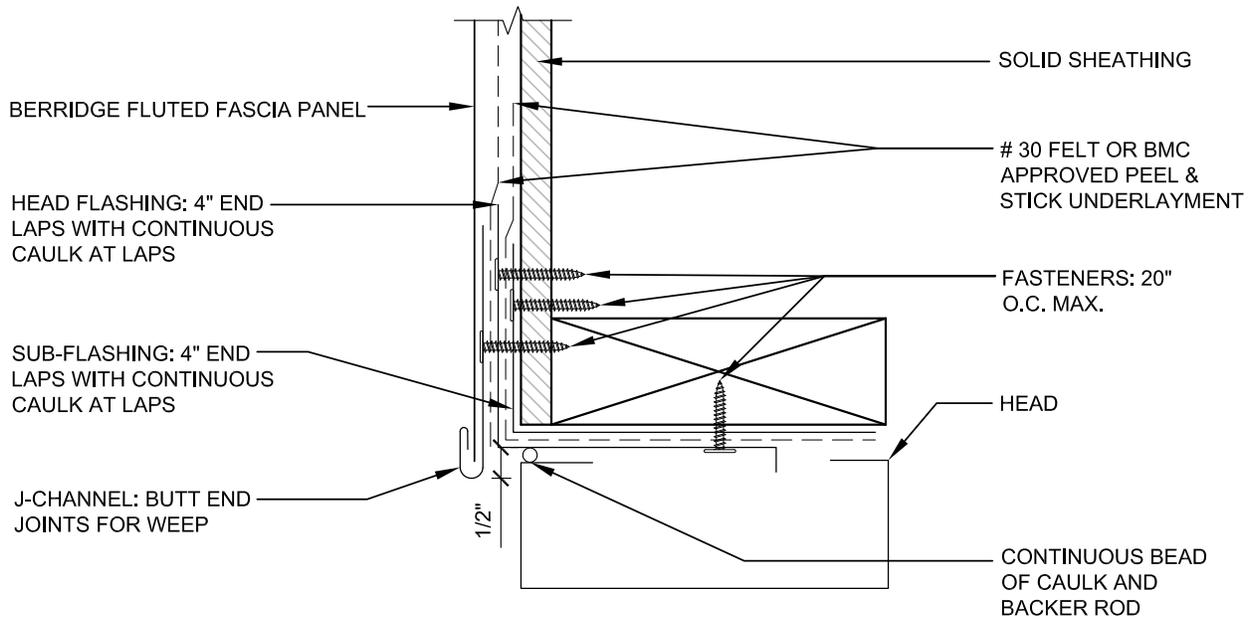
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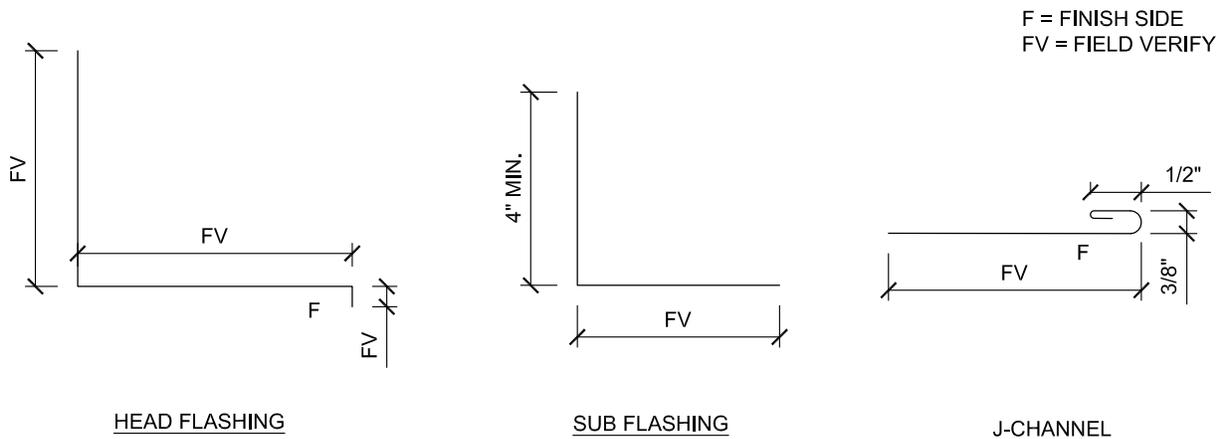
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FLUTED FASCIA PANEL

HEADER DETAIL



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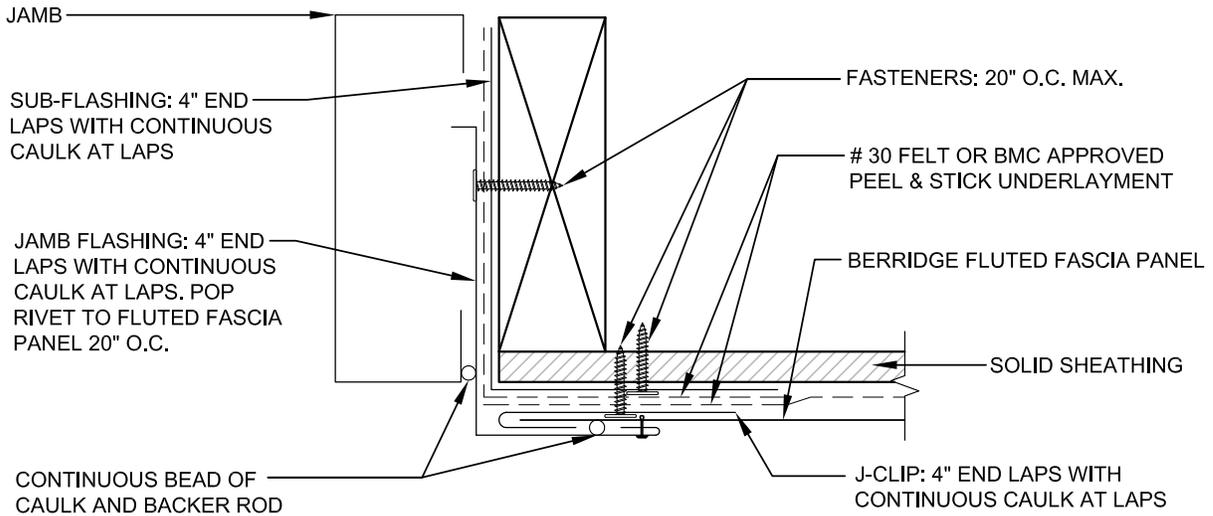
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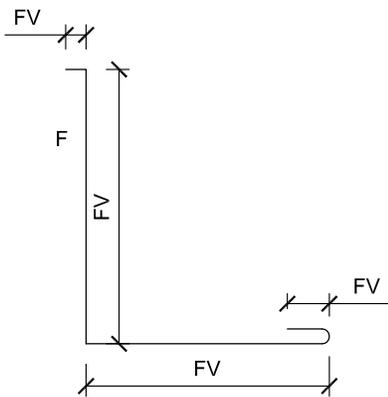
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FLUTED FASCIA PANEL

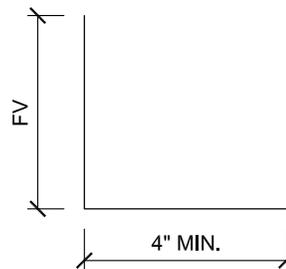
JAMB DETAIL



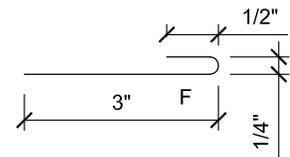
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JAMB FLASHING



SUB FLASHING

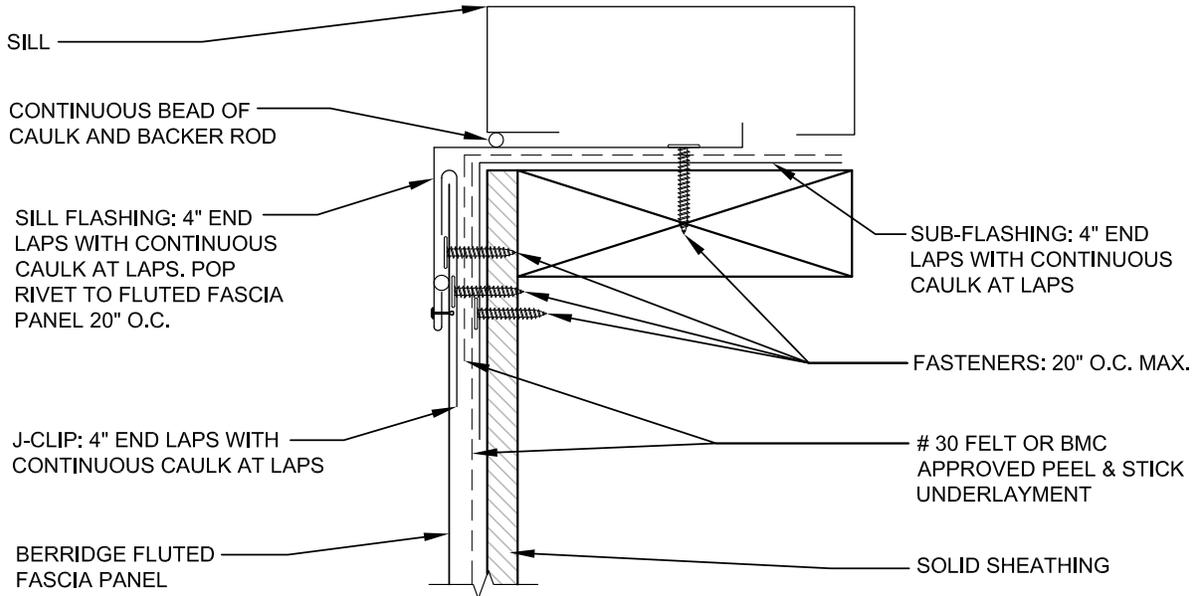


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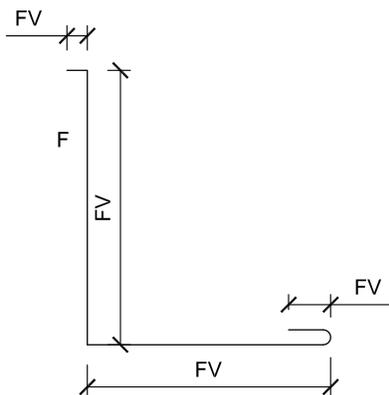
F = FINISH SIDE
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FLUTED FASCIA PANEL

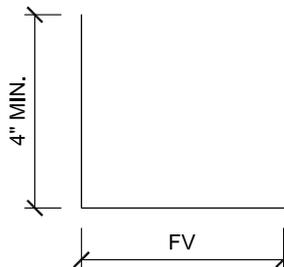
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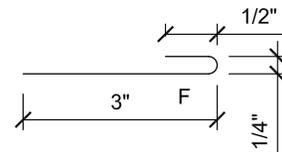
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SILL FLASHING



SUB FLASHING



J-CLIP

F = FINISH SIDE
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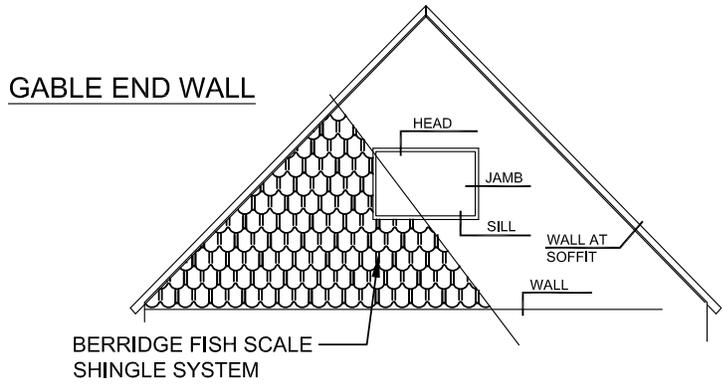
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FISH SCALE SHINGLE

FISH SCALE SHINGLE OVERVIEW

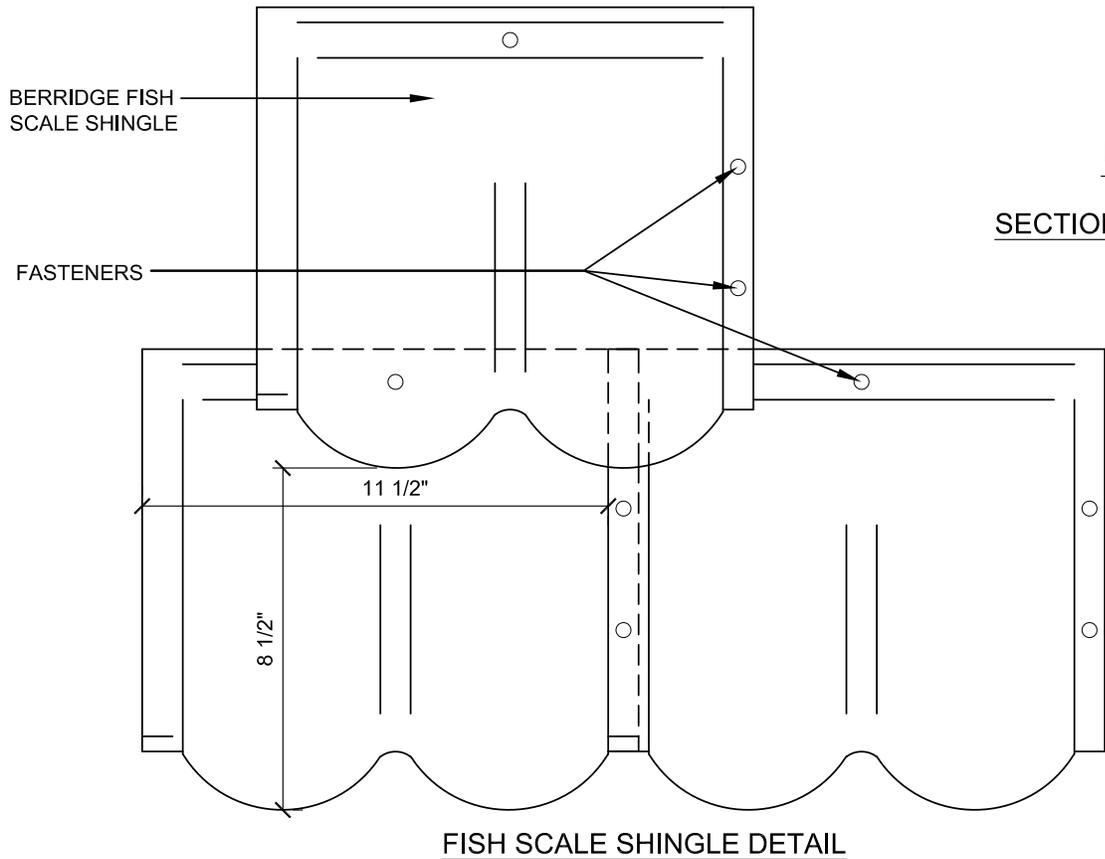
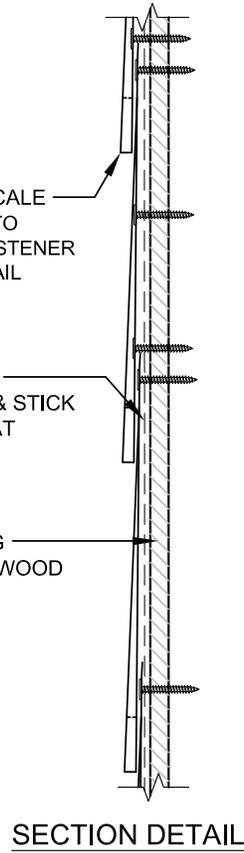
BERRIDGE FISH SCALE SHINGLE	
HISTORICAL PRODUCT INSTALLED OVER SOLID SHEATHING; FOR GABLE, SIDEWALL, FASCIA OR MANSARD (80 DEGREE + SLOPE)	EACH SHINGLE IS STAMPED WITH TWO SCALE MODULES PER SHINGLE. THE EXPOSURE TO THE WEATHER SHALL BE 8-1/2" BY 11-1/2" PER SHINGLE.



BERRIDGE FISH SCALE SHINGLE FASTEN TO PLYWOOD, FOR FASTENER PATTERN SEE DETAIL BELOW

30 FELT OR BMC APPROVED PEEL & STICK UNDERLAYMENT AT MANSARD

SOLID SHEATHING MINIMUM 1/2" PLYWOOD



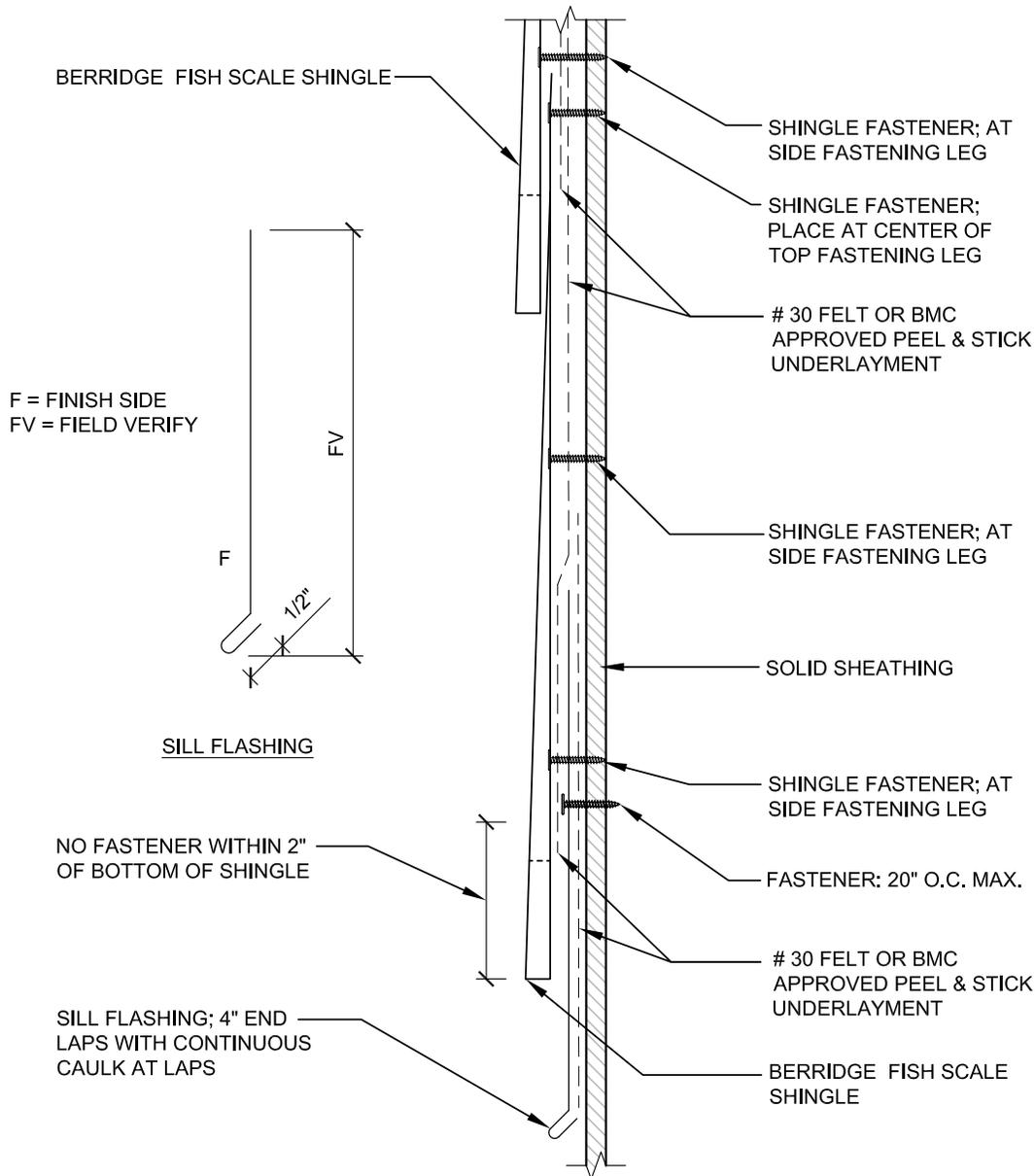
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FISH SCALE SHINGLE

FASCIA SILL DETAIL



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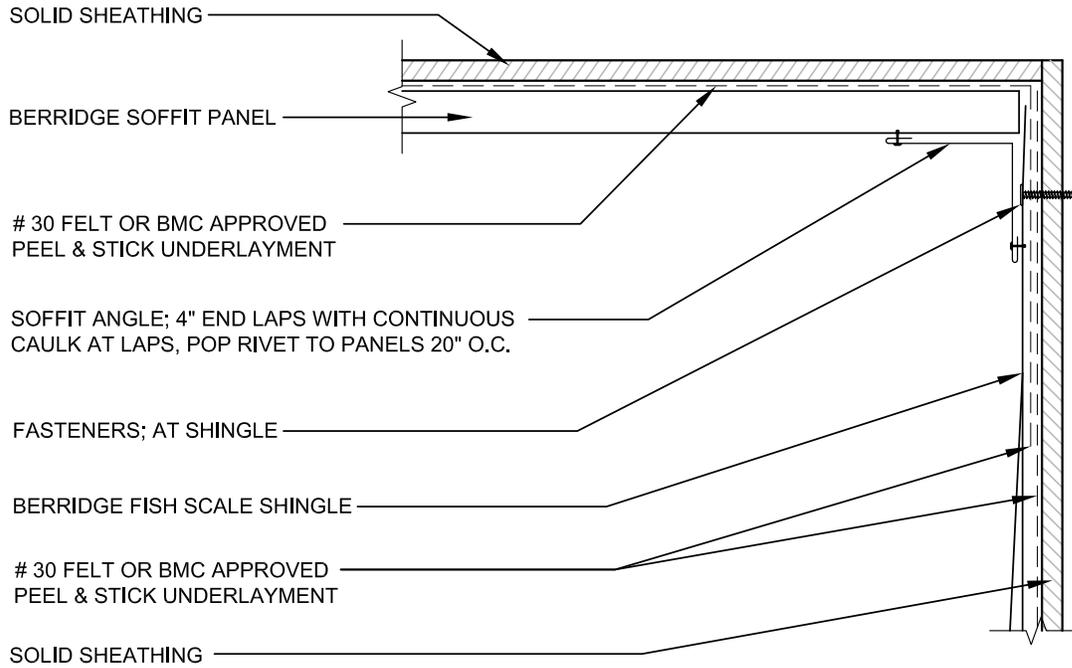
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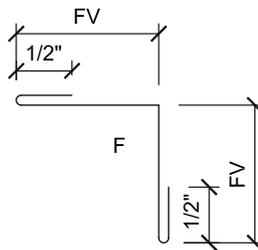
FISH SCALE SHINGLE

WALL TO SOFFIT DETAIL



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SOFFIT ANGLE

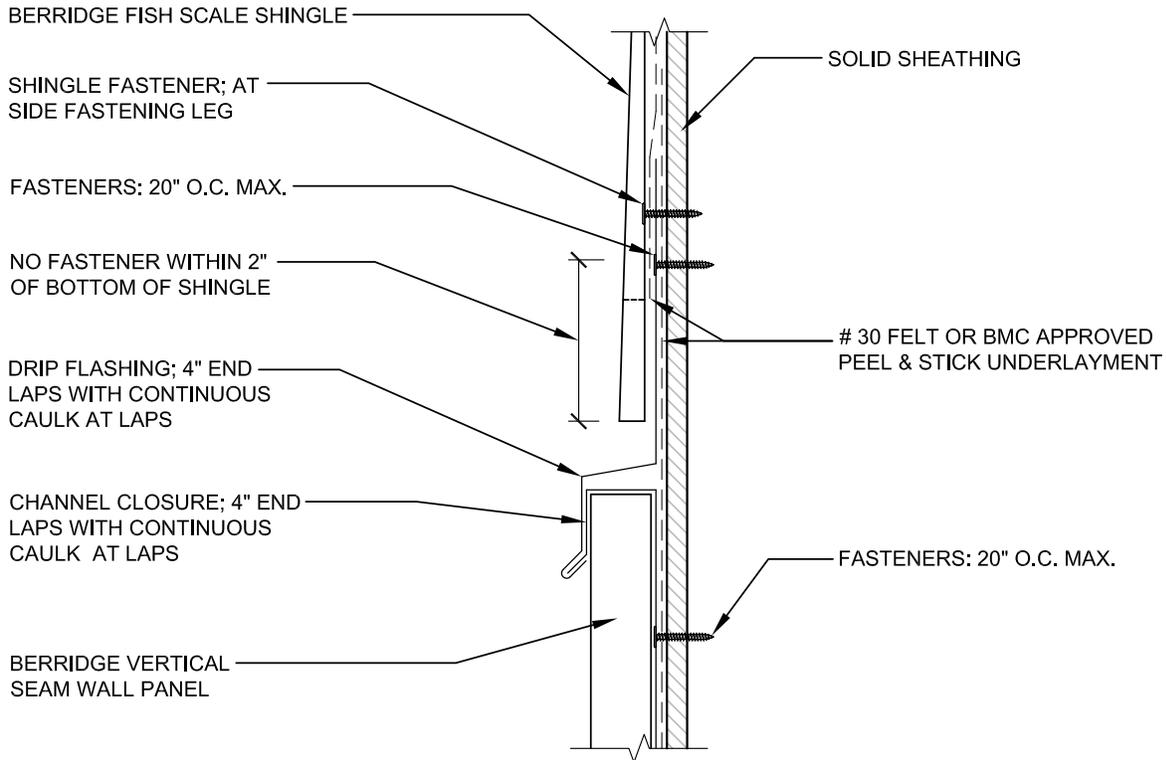
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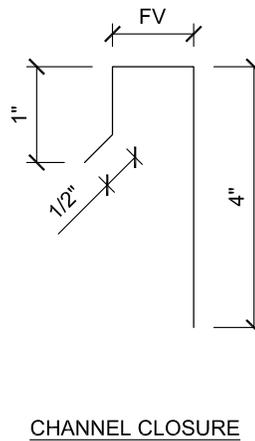
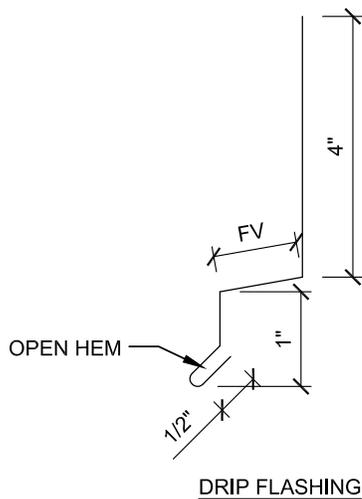
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FISH SCALE SHINGLE

SILL AT VERTICAL PANEL DETAIL



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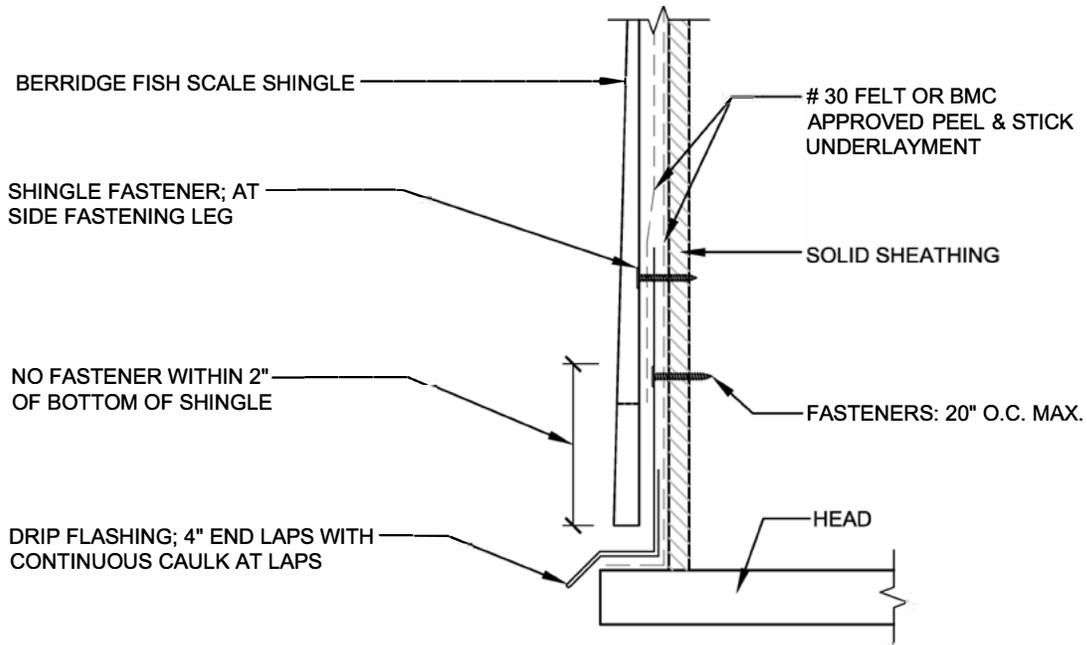
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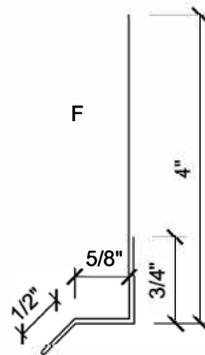
FISH SCALE SHINGLE

HEADER DETAIL



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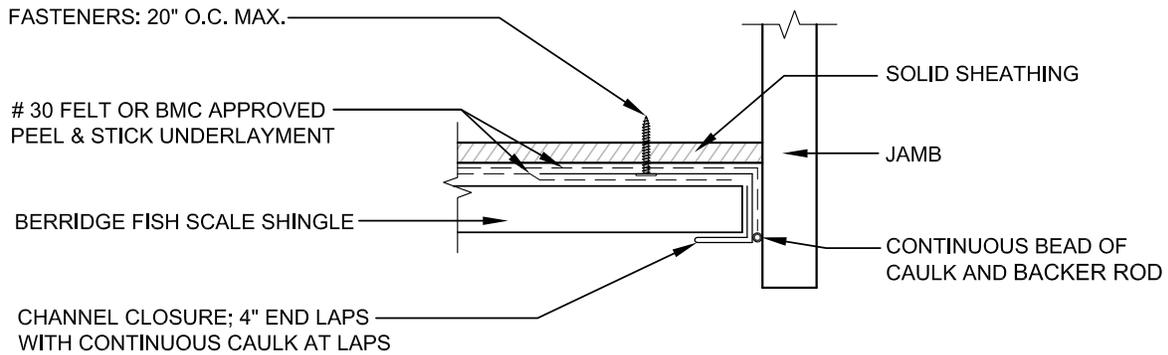
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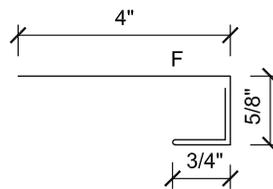
FISH SCALE SHINGLE

JAMB DETAIL



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CHANNEL CLOSURE

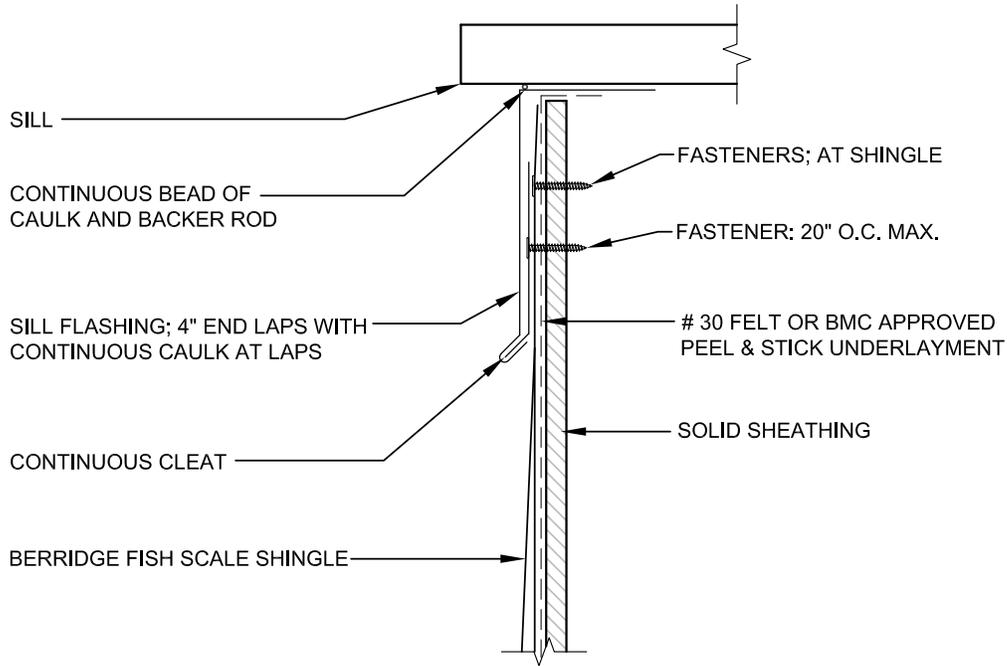
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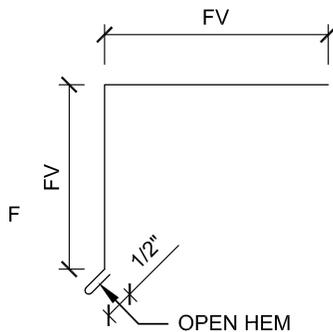
FISH SCALE SHINGLE

SILL DETAIL

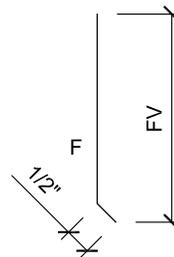


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SILL FLASHING



CONTINUOUS CLEAT

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SECTION 6

EXPOSED FASTENER

ROOF & WALL SYSTEMS

- R-PANEL
- M-PANEL
- DEEP-DECK
- DOUBLE-RIB
- S-DECK
- EXPOSED FASTENER PANELS

For the most up-to-date information visit www.berridge.com

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Notes: Details listed above are for Berridge S-Deck. Actual details for other exposed fastener products may vary slightly. Consult installation details on www.berridge.com for complete details on all Berridge products. Consult Design Guide Section 1 for additional information on UL Fire Assemblies.

NOTE:

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions.

Berridge Manufacturing Company shall be held harmless from any and all claims arising from lack of watertightness as a result of following these recommended details. Ensuring watertightness on any given project is the function of the installer. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements and assure adequate watertightness.

The installer can virtually assure watertightness if these details have been properly adapted, adequate laps have been provided, correct type of underlayment and sealant used, all joints adequately caulked and professional workmanship employed.

Should a watertightness warranty be required on a specific project, please refer to the procedures outlined in the "Design Guide" section of this manual. These procedures must be adhered to in order for Berridge to issue any type of watertightness warranty.

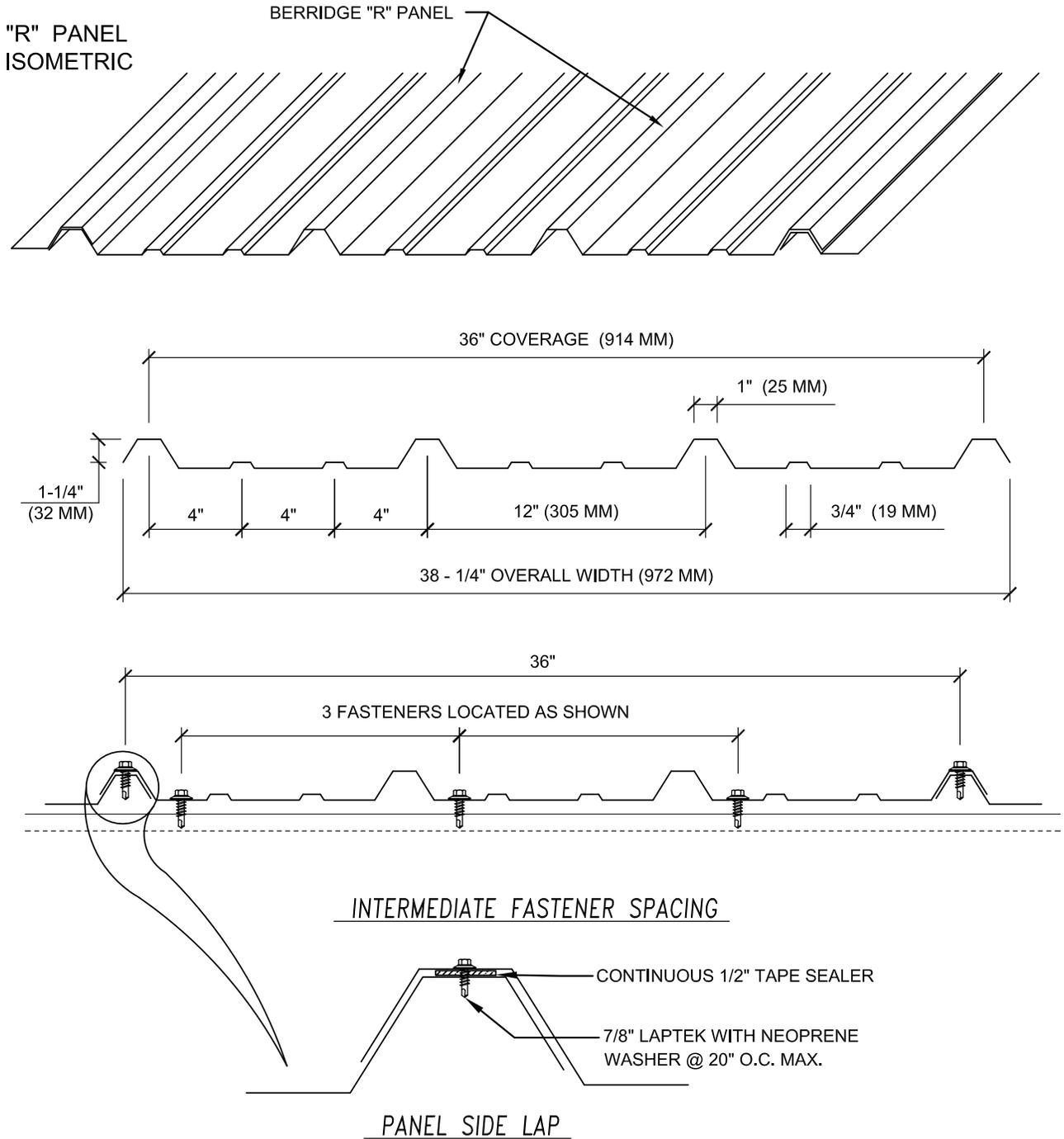
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R-PANEL

R-PANEL OVERVIEW



FOR ENDLAP AND EAVE FASTENER SPACINGS REFERENCE "R PANEL" INSTALLATION INSTRUCTIONS ON BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM

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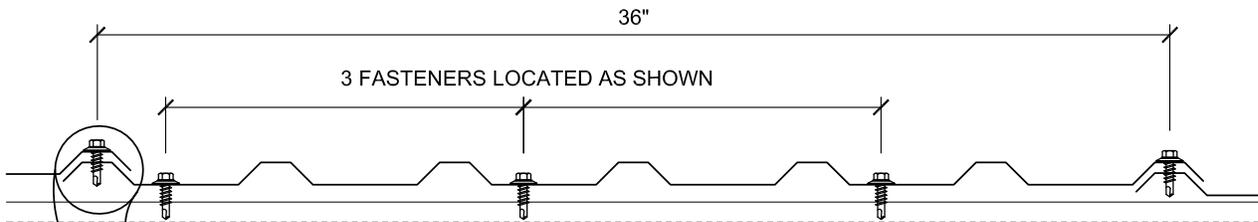
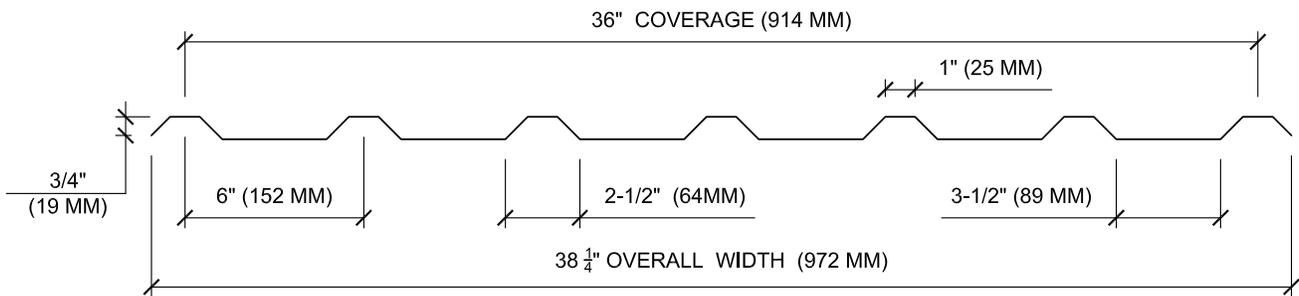
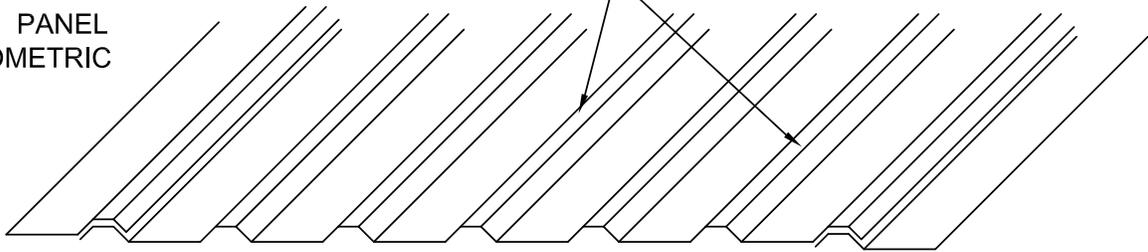
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M-PANEL

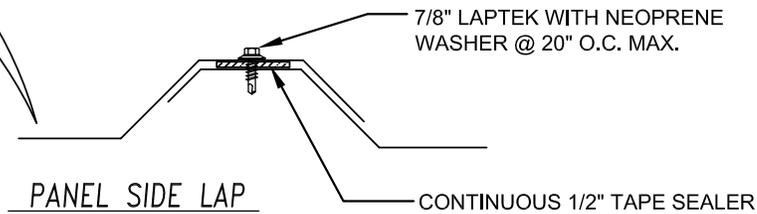
M-PANEL OVERVIEW

"M" PANEL
ISOMETRIC

BERRIDGE "M" PANEL



INTERMEDIATE FASTENER SPACING



FOR ENDLAP AND EAVE FASTENER SPACINGS REFERENCE "M PANEL" INSTALLATION INSTRUCTIONS ON BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM

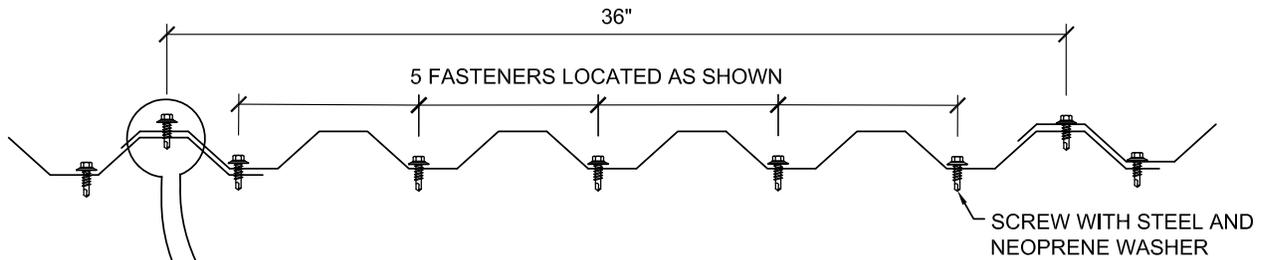
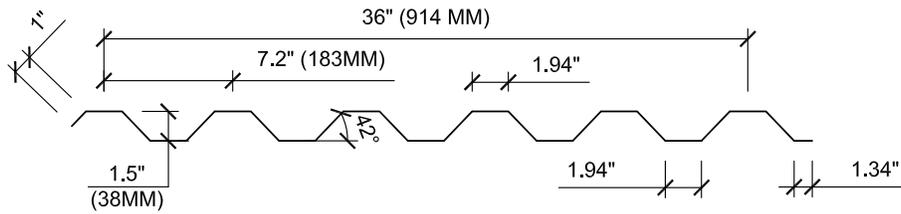
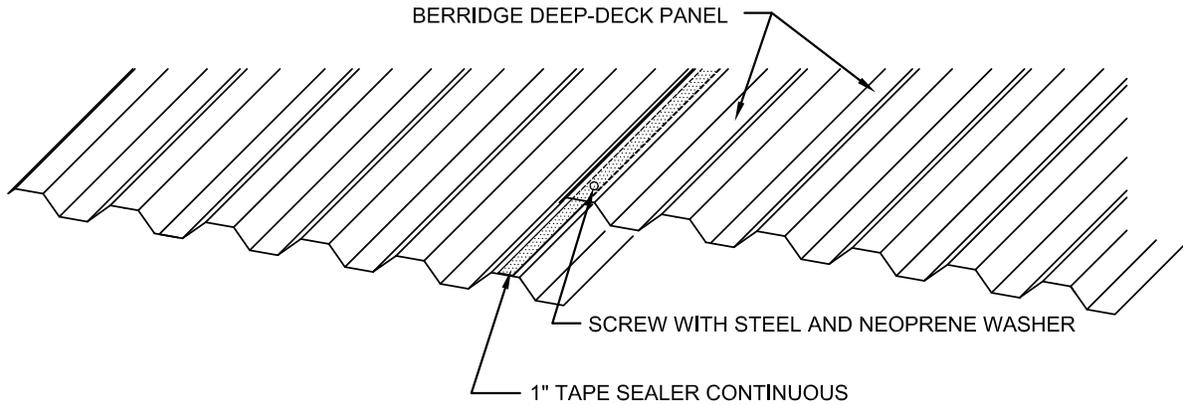
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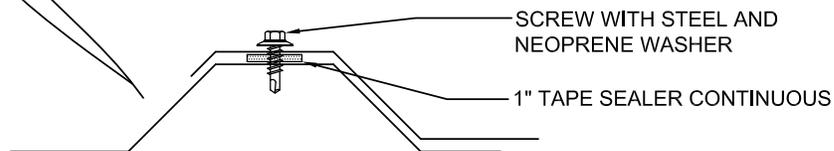
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DEEP-DECK

DEEP-DECK OVERVIEW



INTERMEDIATE FASTENER SPACING DEEP DECK PANEL



PANEL SIDE LAP

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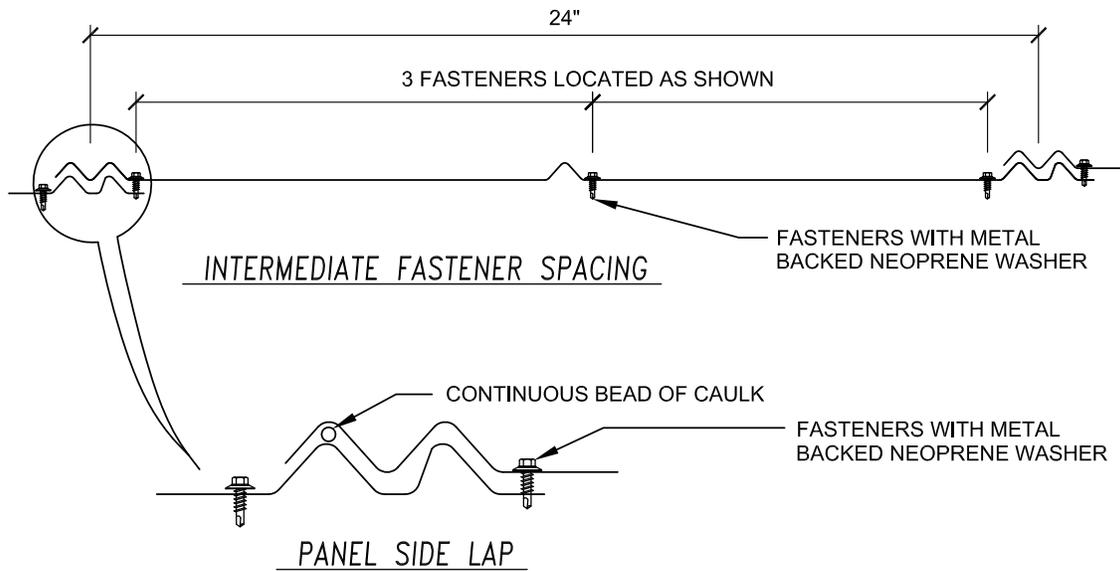
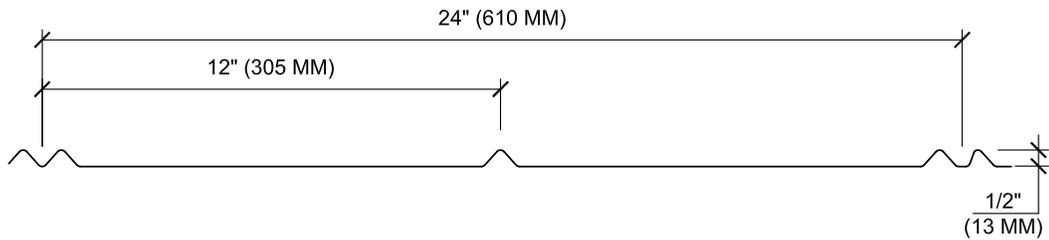
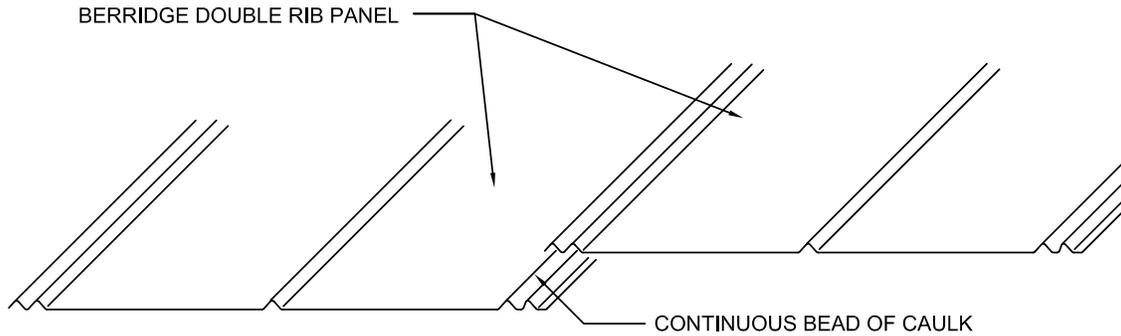
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DOUBLE-RIB

DOUBLE-RIB OVERVIEW



FOR ENDLAP AND EAVE FASTENER SPACINGS REFERENCE "DOUBLE RIB PANEL" INSTALLATION INSTRUCTIONS ON BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM

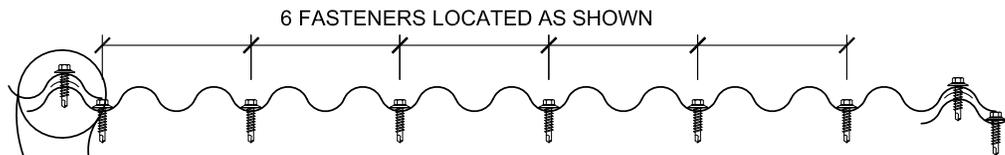
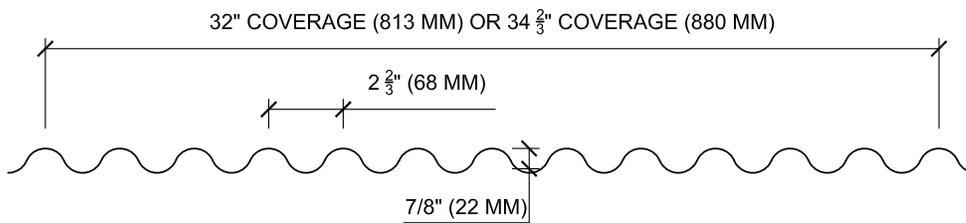
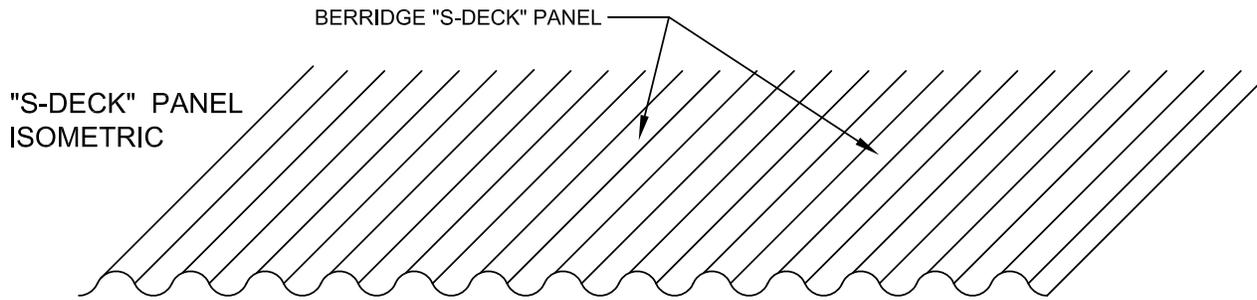
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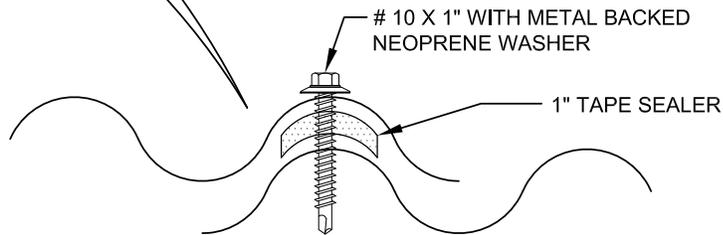
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S-DECK

S-DECK OVERVIEW



INTERMEDIATE FASTENER SPACING

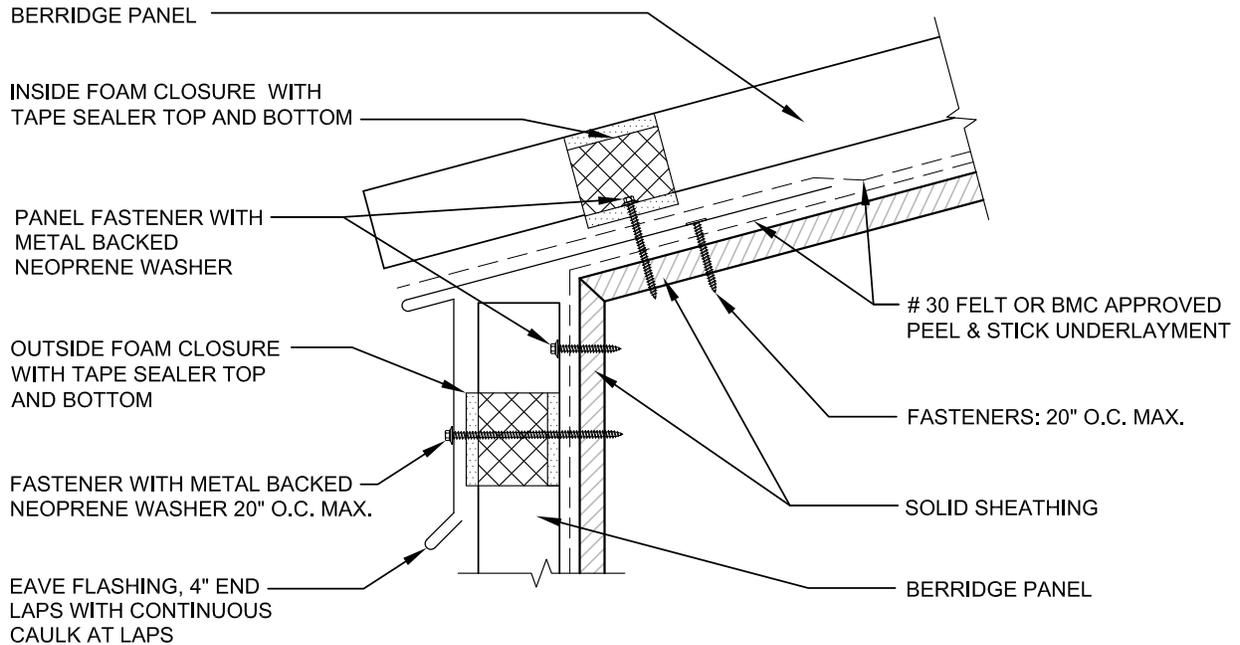


PANEL SIDE LAP

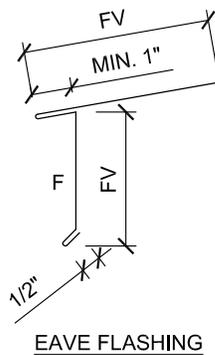
FOR ENDLAP AND EAVE FASTENER SPACINGS REFERENCE "S-DECK PANEL" INSTALLATION INSTRUCTIONS ON BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM

EXPOSED FASTENER PANELS

EAVE DETAIL - SOLID SHEATHING



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
3. USE BMC APPROVED PEEL & STICK AS UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



F = FINISH SIDE
FV = FIELD VERIFY

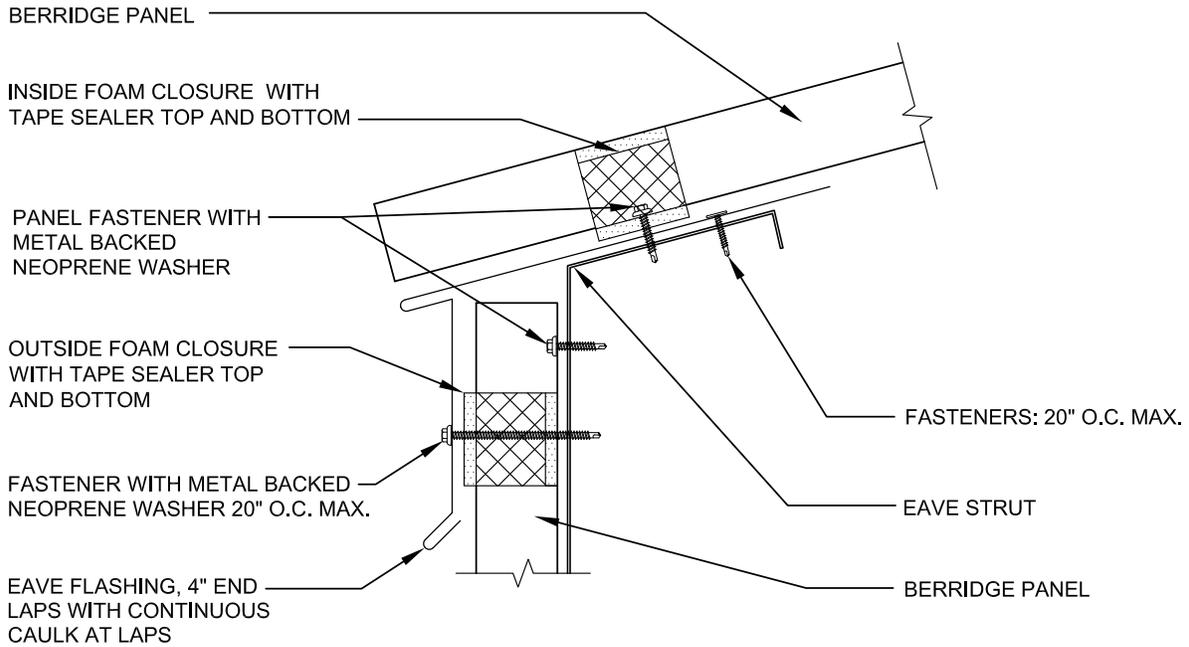
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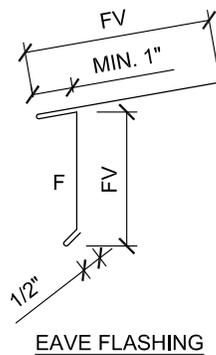
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EXPOSED FASTENER PANELS

EAVE DETAIL - OPEN FRAMING



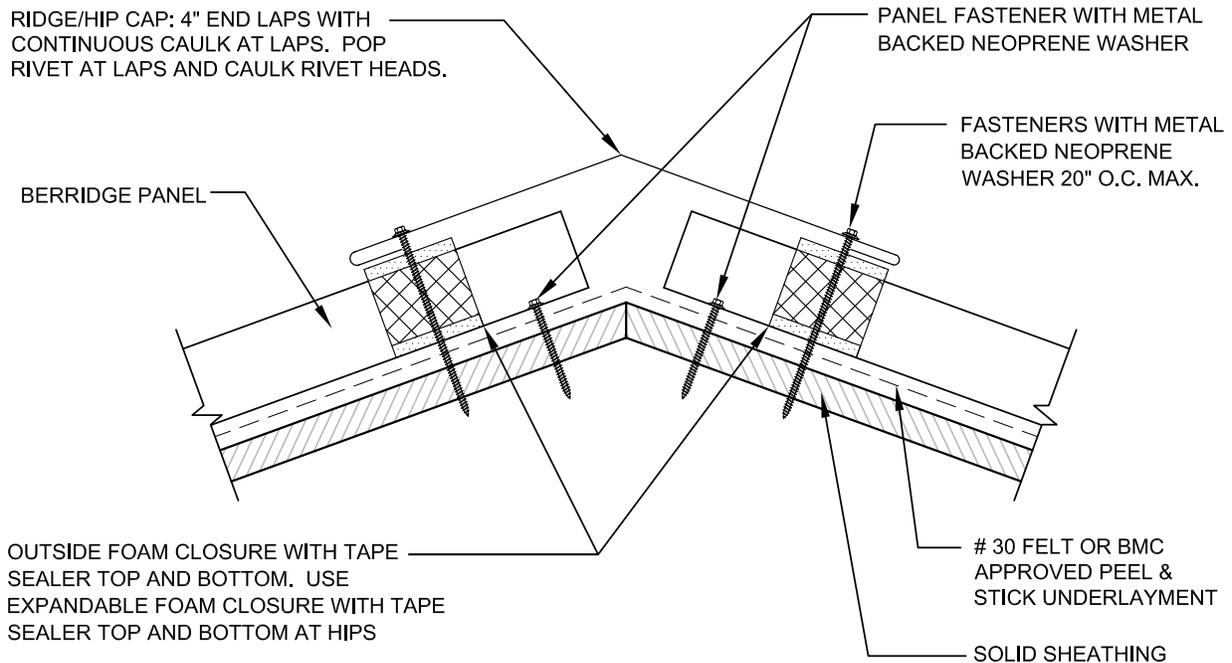
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2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



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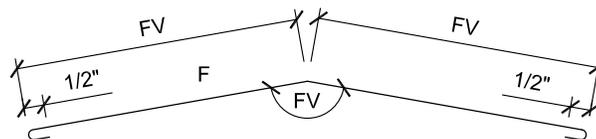
EXPOSED FASTENER PANELS

RIDGE & HIP DETAIL - SOLID SHEATHING



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
3. USE BMC APPROVED PEEL & STICK AS UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

F = FINISH SIDE
FV = FIELD VERIFY



RIDGE/HIP CAP

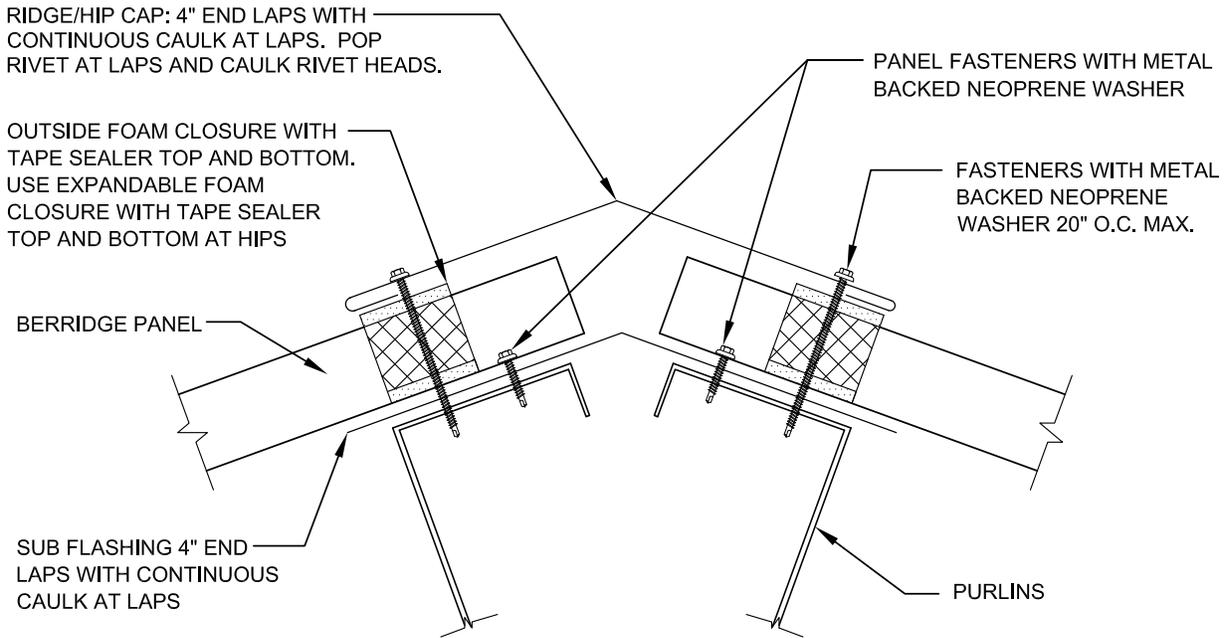
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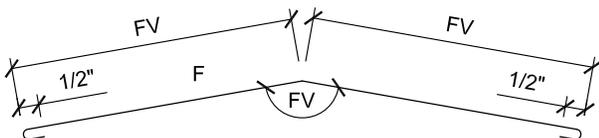
EXPOSED FASTENER PANELS

RIDGE & HIP DETAIL - OPEN FRAMING

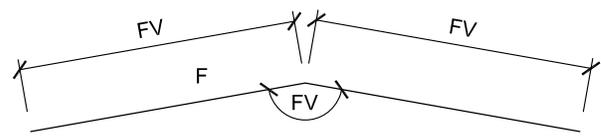


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2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

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RIDGE/HIP CAP



SUB FLASHING

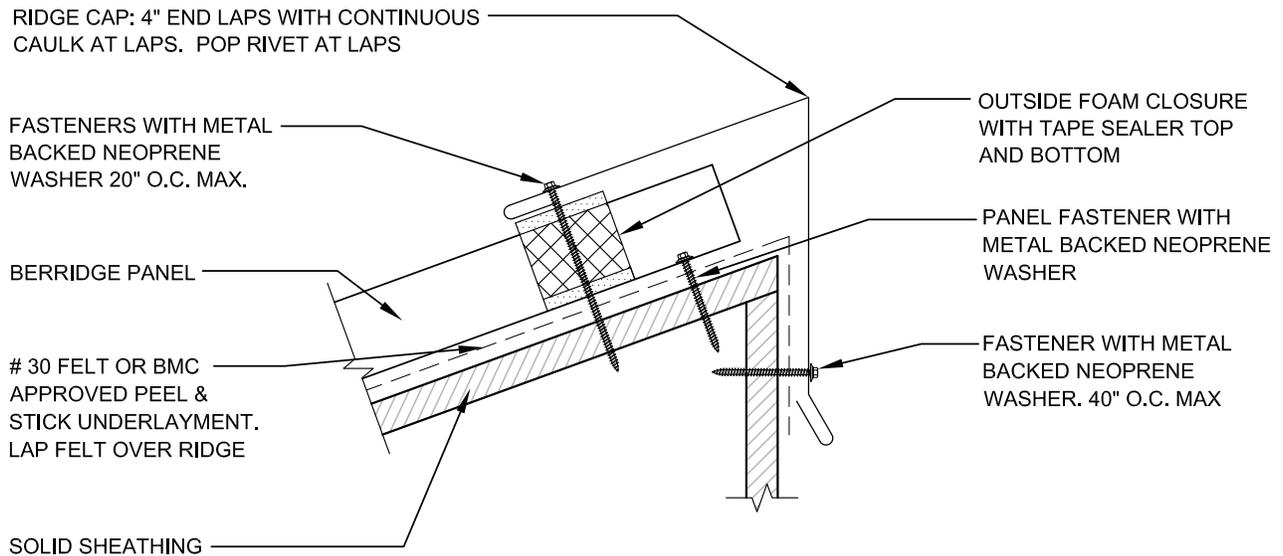
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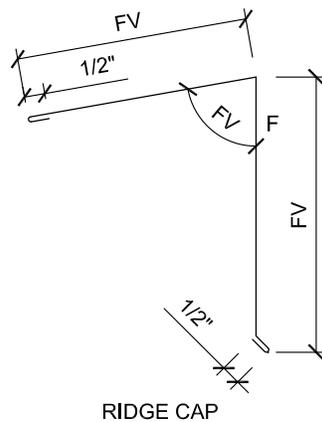
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EXPOSED FASTENER PANELS

SHED ROOF DETAIL - SOLID SHEATHING



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
3. USE BMC APPROVED PEEL & STICK AS UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



F = FINISH SIDE
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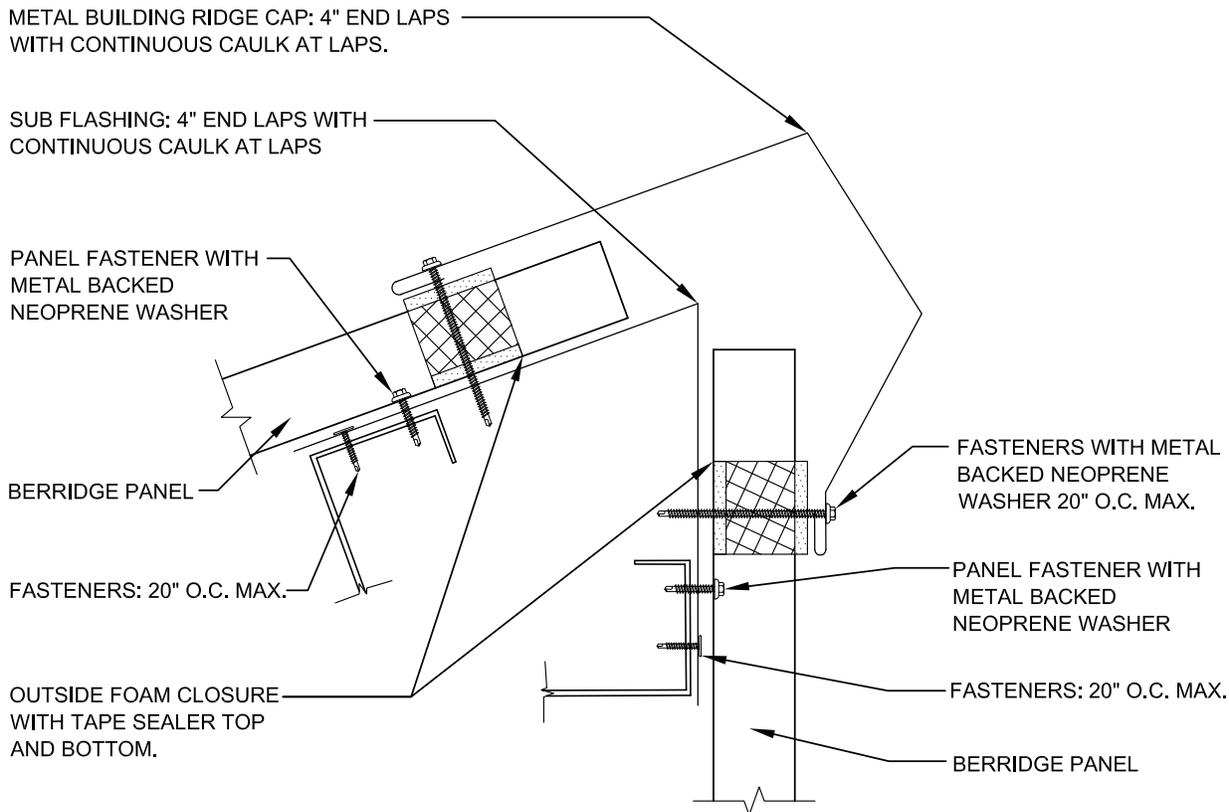
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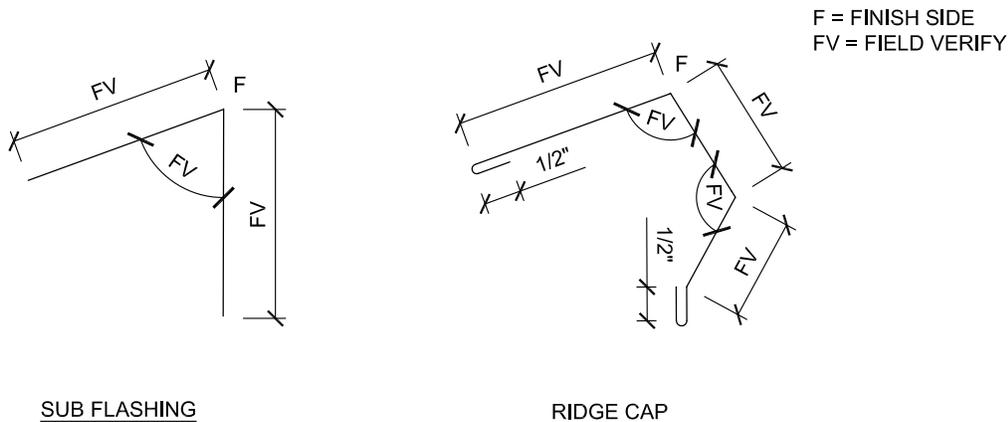
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EXPOSED FASTENER PANELS

SHED ROOF DETAIL - OPEN FRAMING



1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



BERRIDGE MANUFACTURING COMPANY

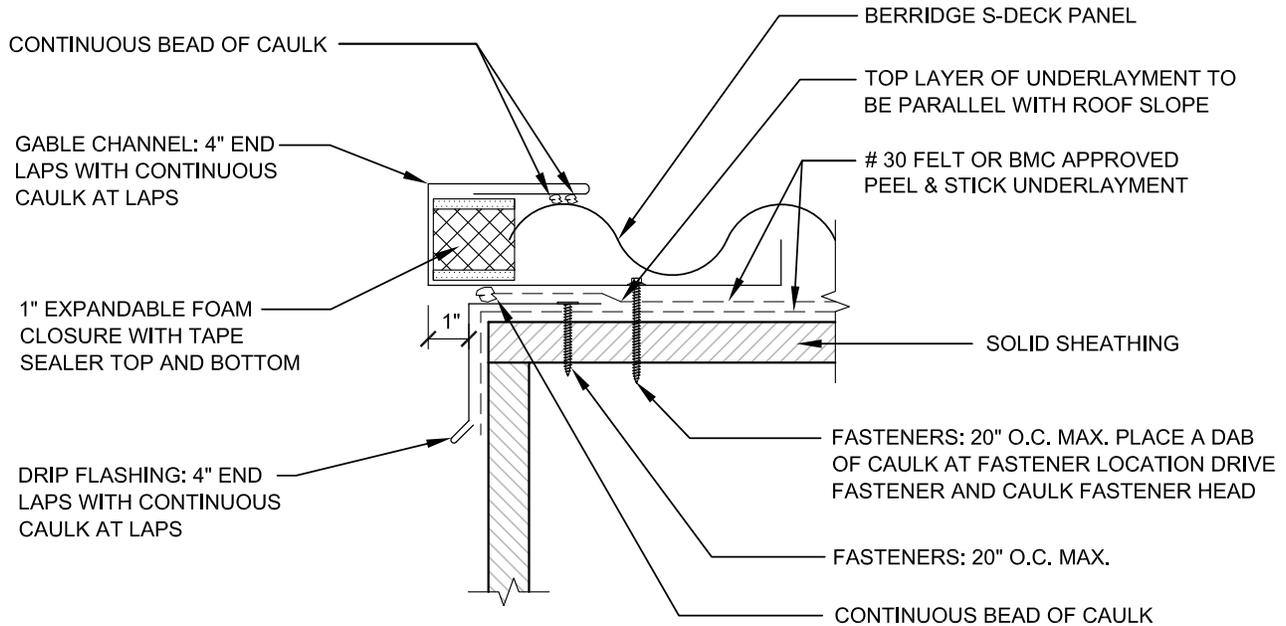
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EXPOSED FASTENER PANELS

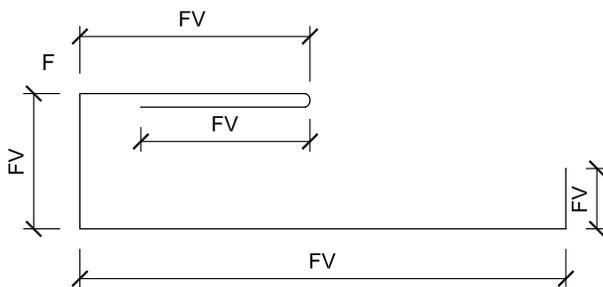
GABLE DETAIL - SOLID SHEATHING

S-Deck shown; for specific product details, visit www.berridge.com

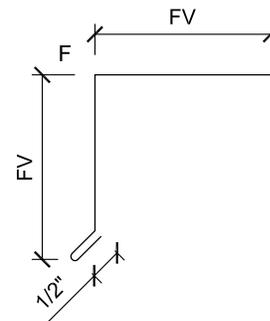


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2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
3. USE BMC APPROVED PEEL & STICK AS UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

F = FINISH SIDE
FV = FIELD VERIFY



GABLE CHANNEL



DRIP FLASHING

BERRIDGE MANUFACTURING COMPANY

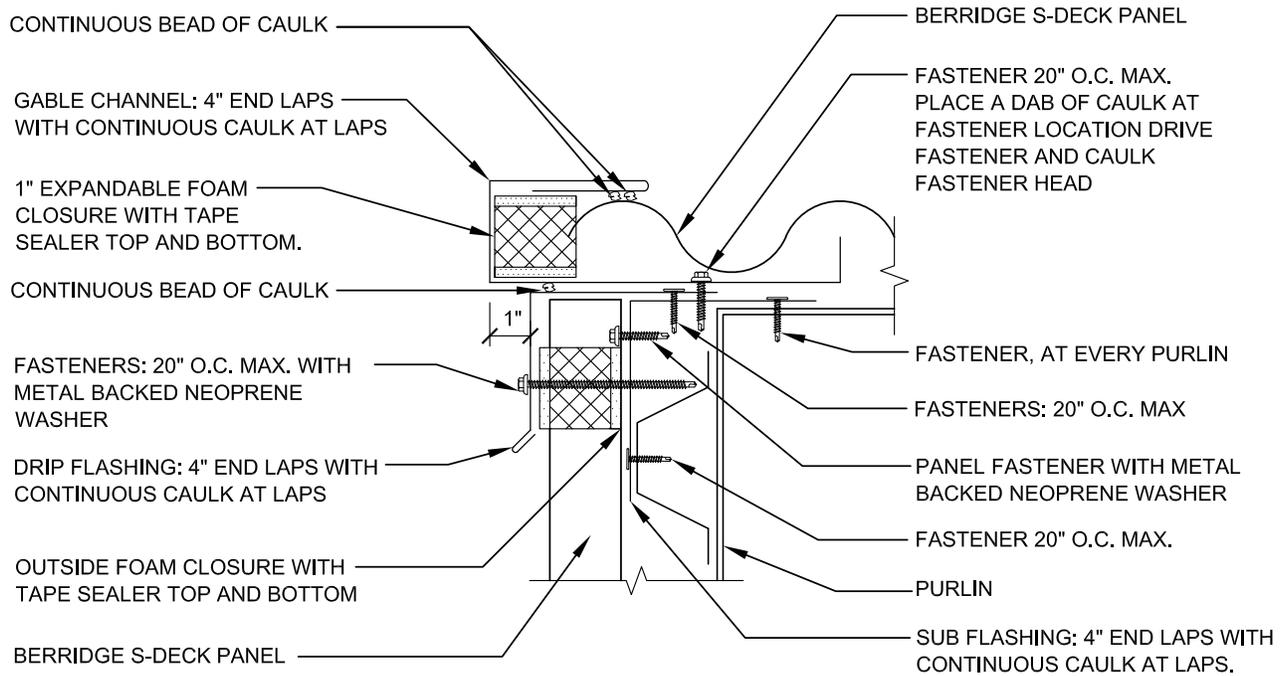
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EXPOSED FASTENER PANELS

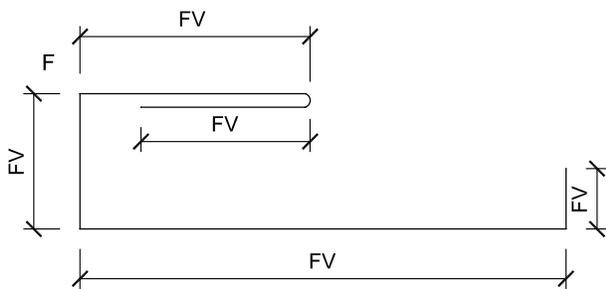
GABLE DETAIL - OPEN FRAMING

S-Deck shown; for specific product details, visit www.berridge.com

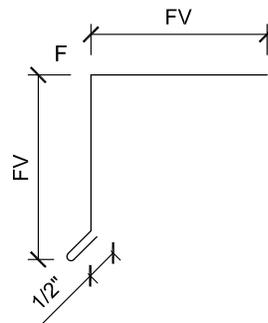


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2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

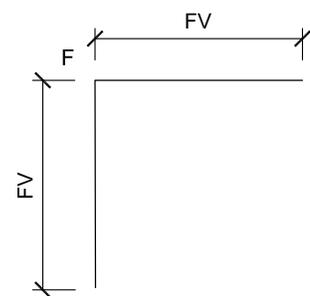
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FV = FIELD VERIFY



GABLE CHANNEL



DRIP FLASHING



SUB FLASHING

BERRIDGE MANUFACTURING COMPANY

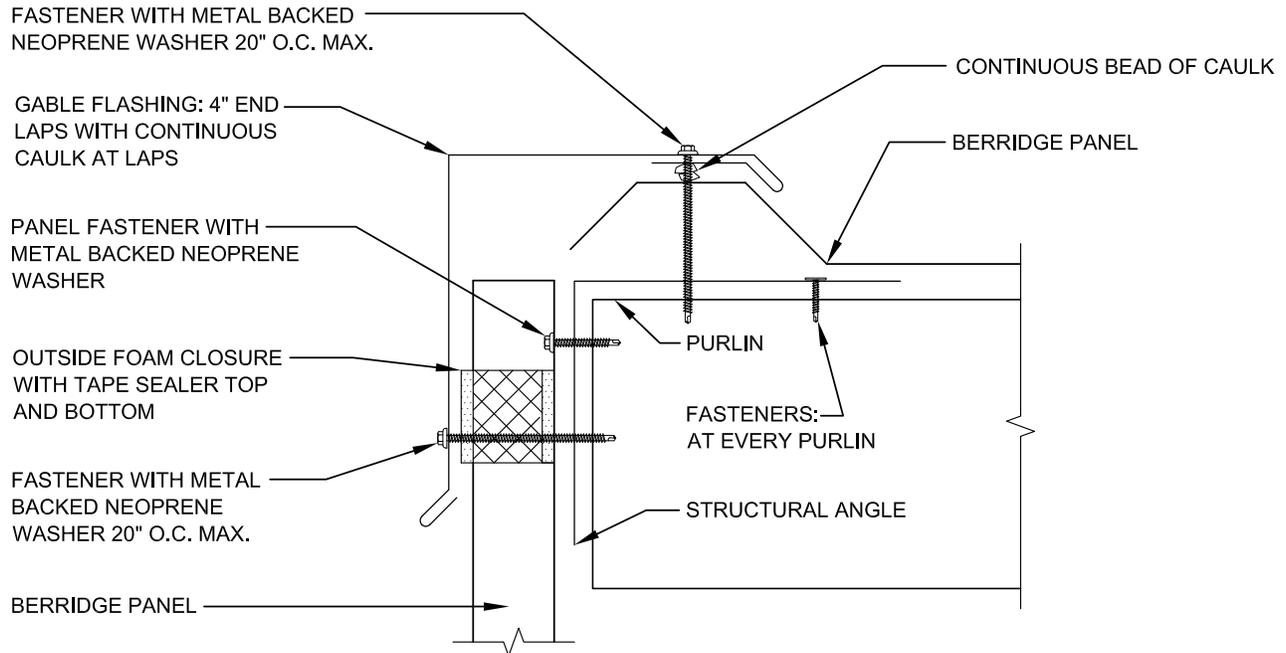
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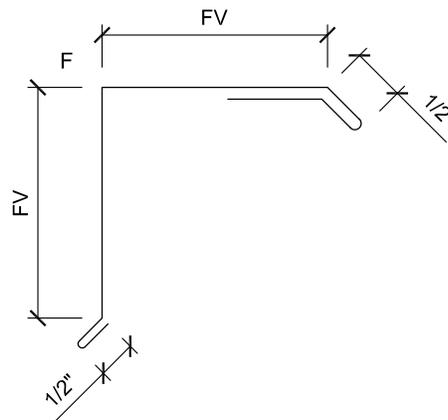
EXPOSED FASTENER PANELS

GABLE DETAIL - OPEN FRAMING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com



1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



F = FINISH SIDE
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GABLE FLASHING

BERRIDGE MANUFACTURING COMPANY

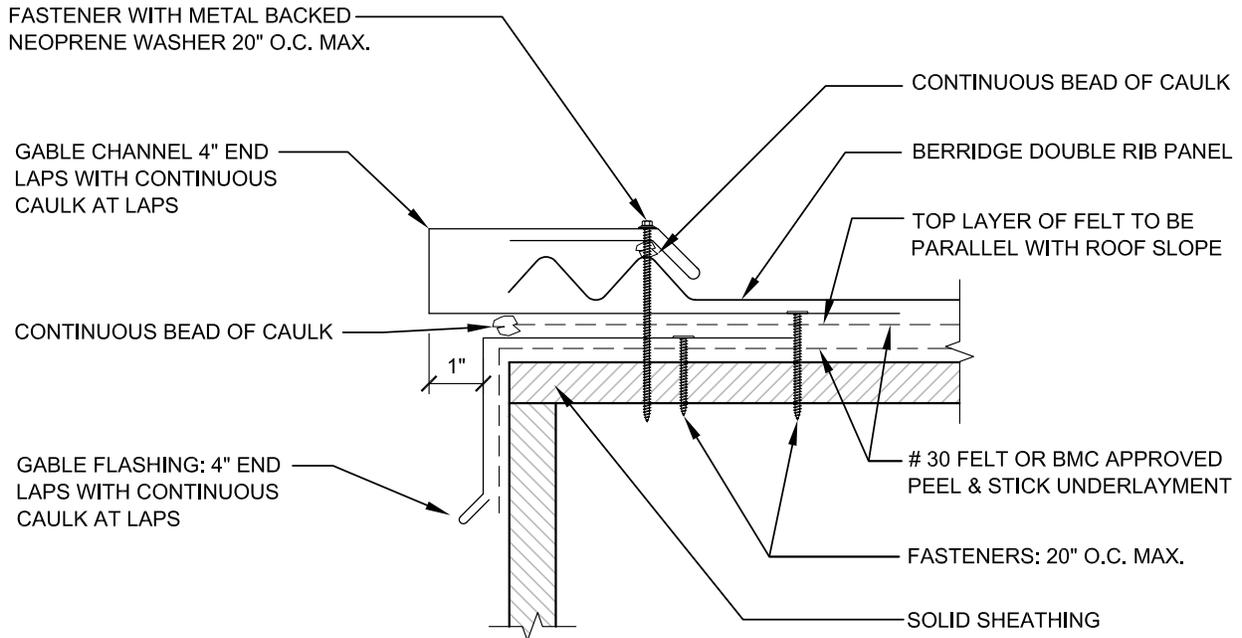
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EXPOSED FASTENER PANELS

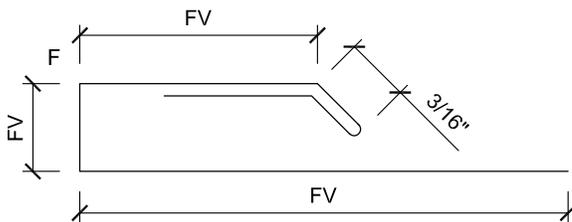
GABLE DETAIL - SOLID SHEATHING

Double-Rib shown; for specific product details, visit www.berridge.com

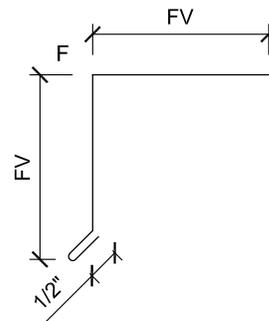


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3. USE BMC APPROVED PEEL & STICK AS UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

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FV = FIELD VERIFY



GABLE CHANNEL



DRIP FLASHING

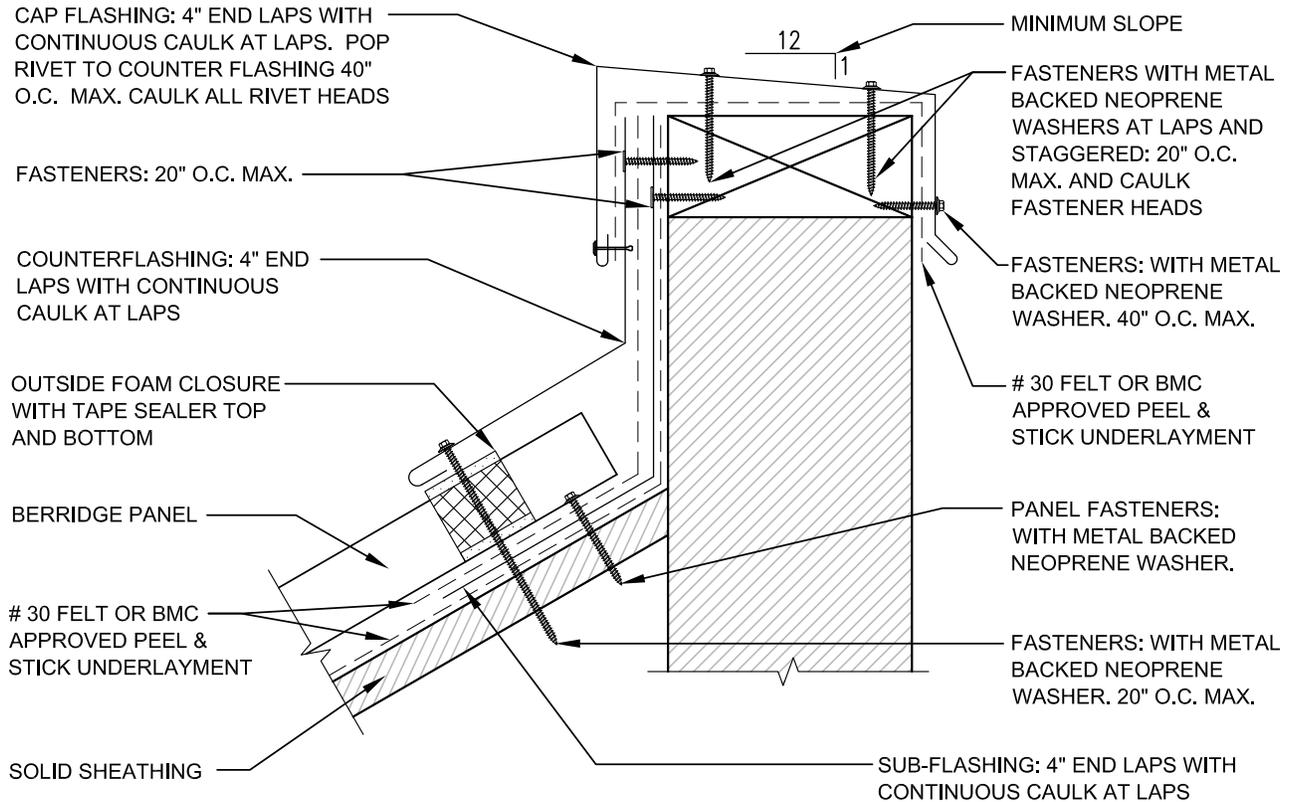
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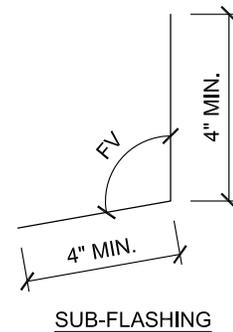
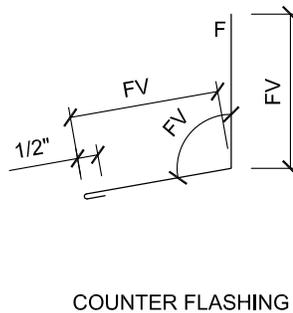
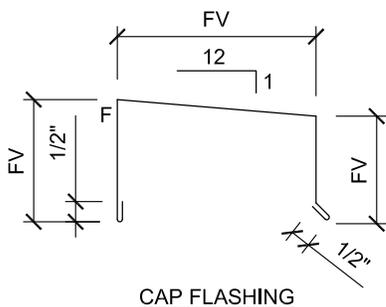
EXPOSED FASTENER PANELS

HEAD WALL AT PARAPET DETAIL - SOLID SHEATHING



1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
3. USE BMC APPROVED PEEL & STICK UNDERLAYMENT FOR CURVED S-DECK.
4. THIS DETAIL TO BE UTILIZED IF PARAPET DOES NOT EXTEND MORE THAN 12" ABOVE ROOF PANEL.
5. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

F = FINISH SIDE
FV = FIELD VERIFY



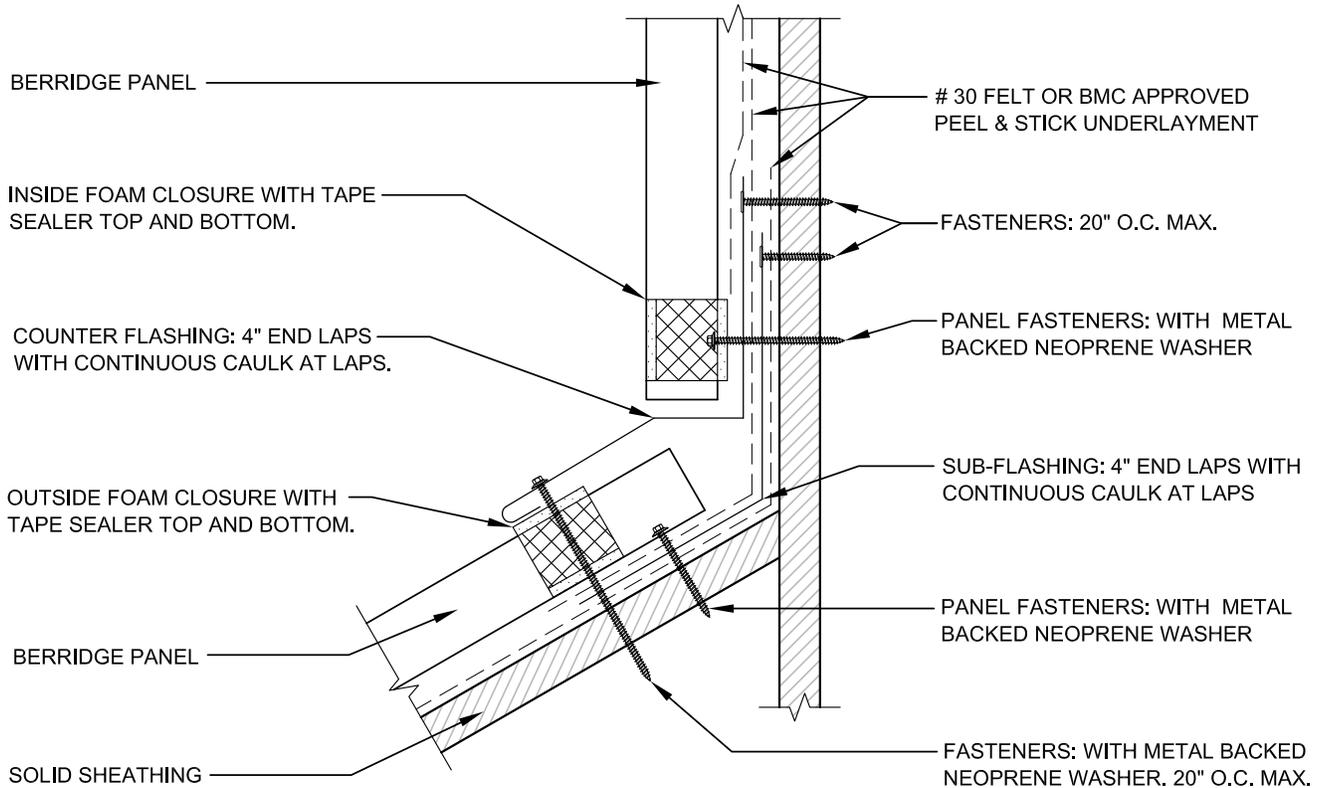
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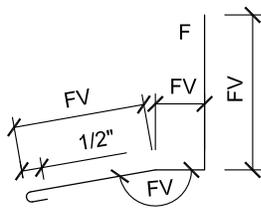
EXPOSED FASTENER PANELS

HEAD WALL WITH WALL PANEL DETAIL - SOLID SHEATHING

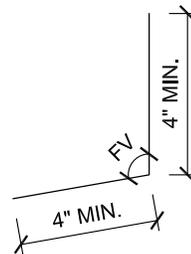


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3. USE BMC APPROVED PEEL & STICK UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

F = FINISH SIDE
FV = FIELD VERIFY



COUNTER FLASHING



SUB FLASHING

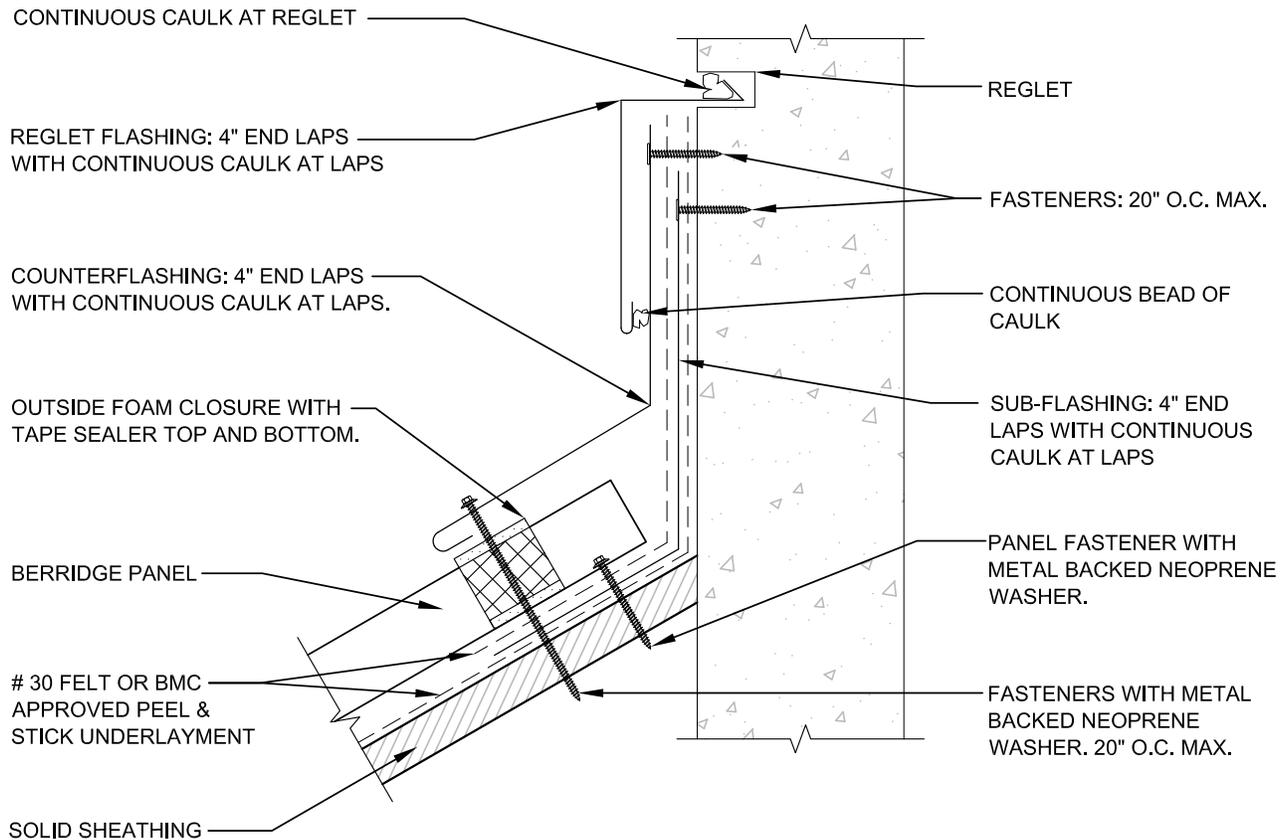
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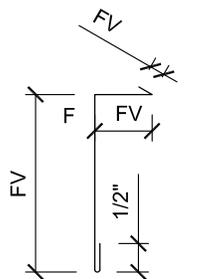
EXPOSED FASTENER PANELS

HEAD WALL WITH REGLET DETAIL - SOLID SHEATHING

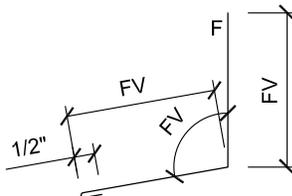


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3. USE BMC APPROVED PEEL & STICK AS UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

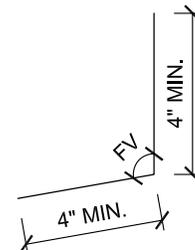
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FV = FIELD VERIFY



REGLET FLASHING



COUNTER FLASHING



SUB FLASHING

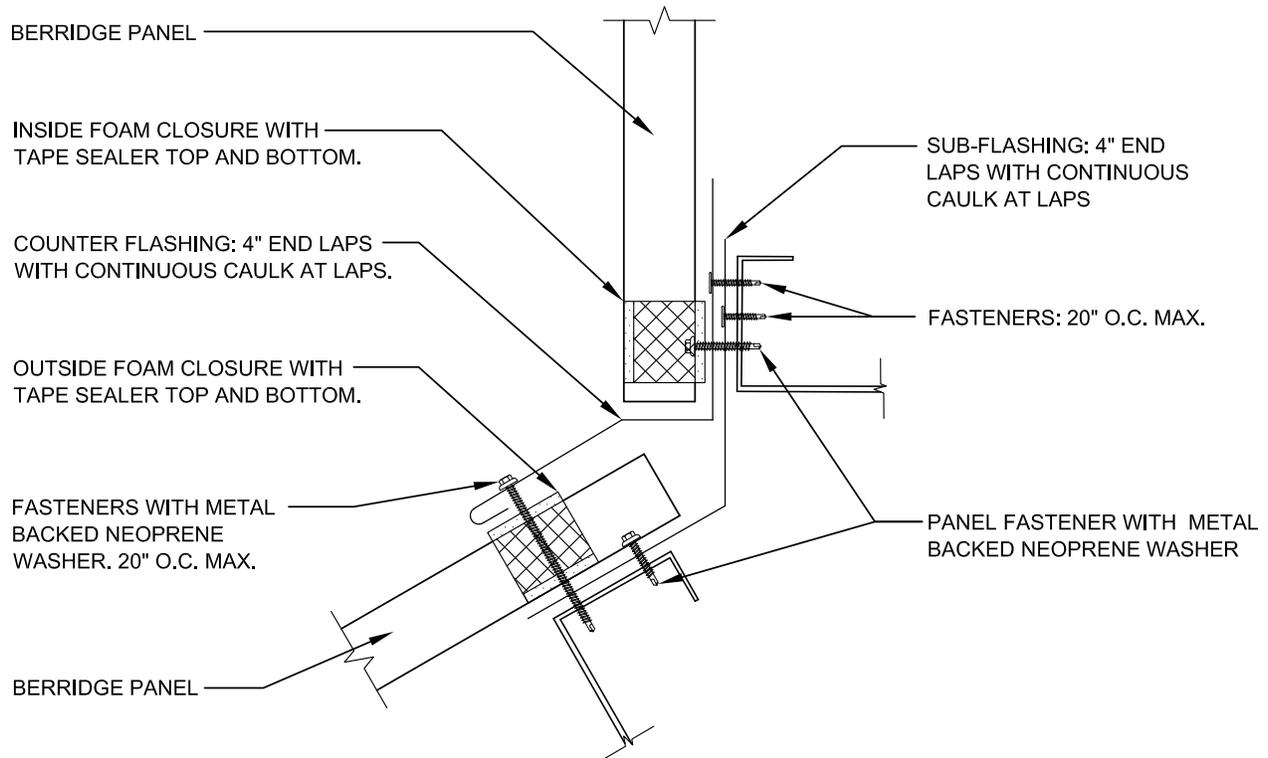
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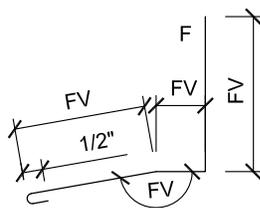
EXPOSED FASTENER PANELS

HEAD WALL WITH WALL PANEL DETAIL - OPEN FRAMING

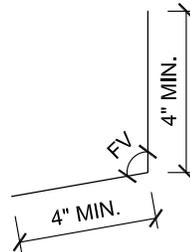


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2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

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COUNTER FLASHING



SUB FLASHING

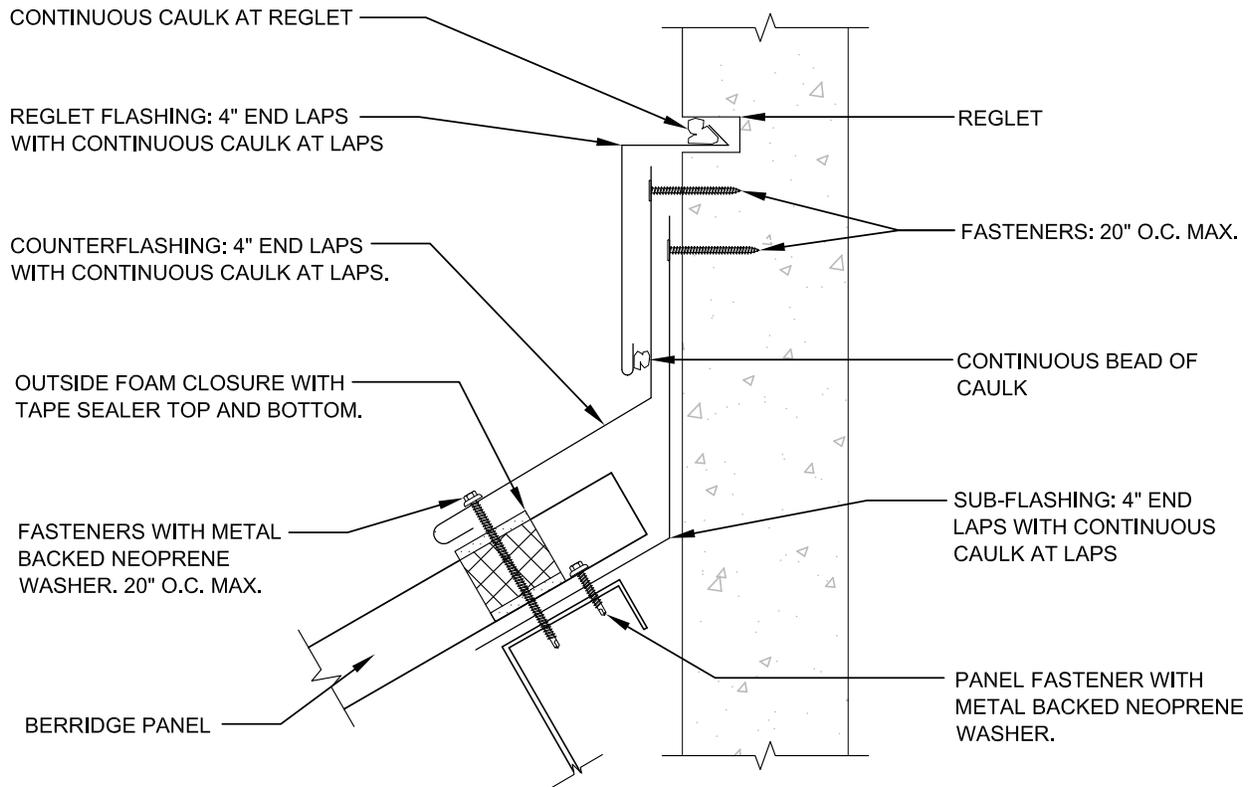
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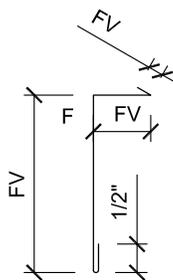
EXPOSED FASTENER PANELS

HEAD WALL WITH REGLET DETAIL - OPEN FRAMING

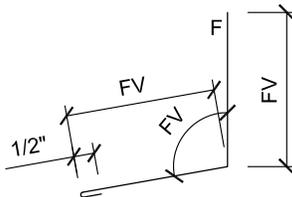


1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

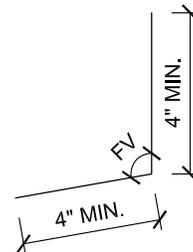
F = FINISH SIDE
FV = FIELD VERIFY



REGLET FLASHING



COUNTER FLASHING



SUB FLASHING

BERRIDGE MANUFACTURING COMPANY

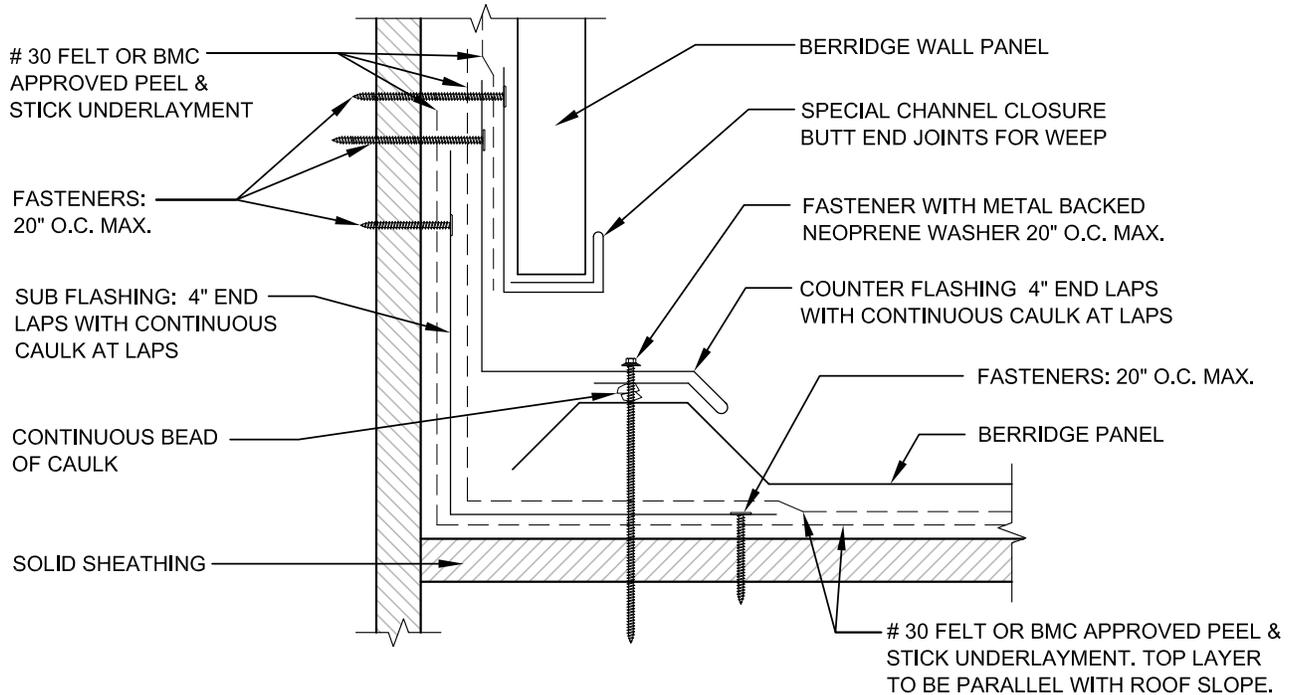
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EXPOSED FASTENER PANELS

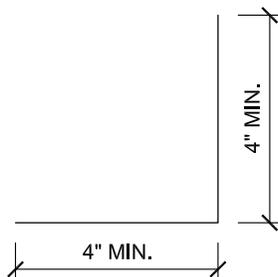
RAKE WALL WITH WALL PANEL DETAIL - SOLID SHEATHING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com

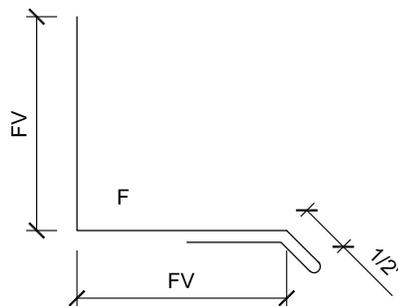


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3. USE BMC APPROVED PEEL & STICK UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

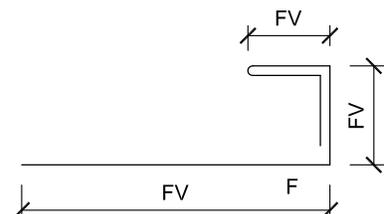
F = FINISH SIDE
FV = FIELD VERIFY



SUB FLASHING



COUNTER FLASHING



SPECIAL CHANNEL

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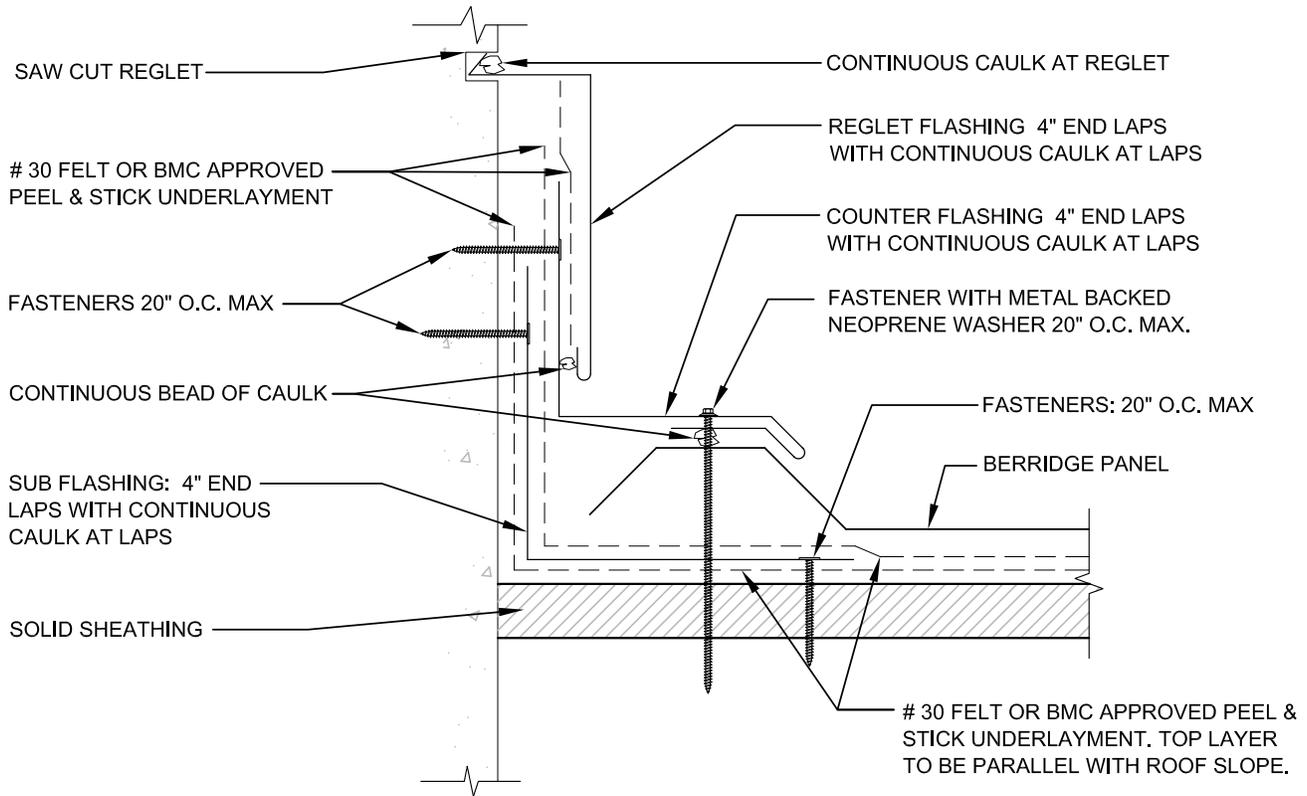
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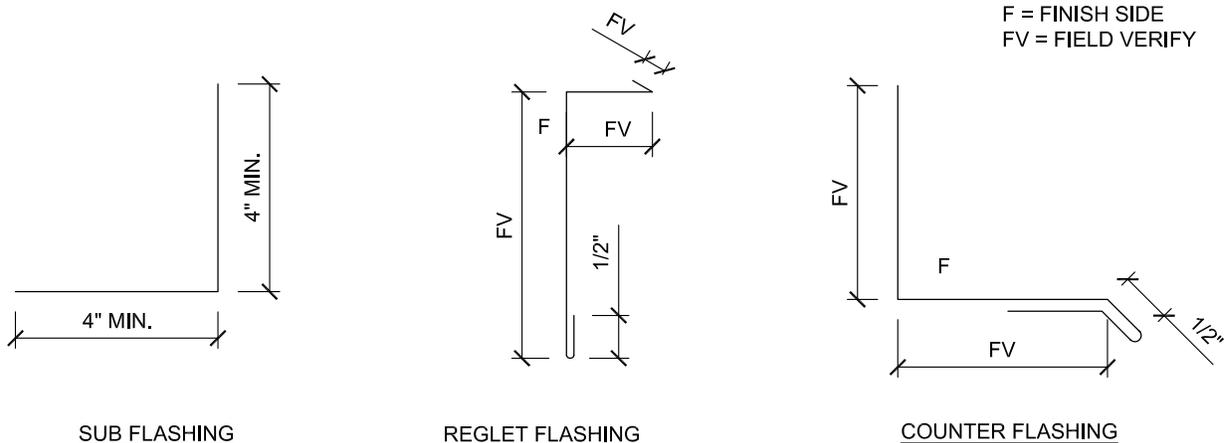
EXPOSED FASTENER PANELS

RAKE WALL WITH REGLET DETAIL - SOLID SHEATHING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com



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4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



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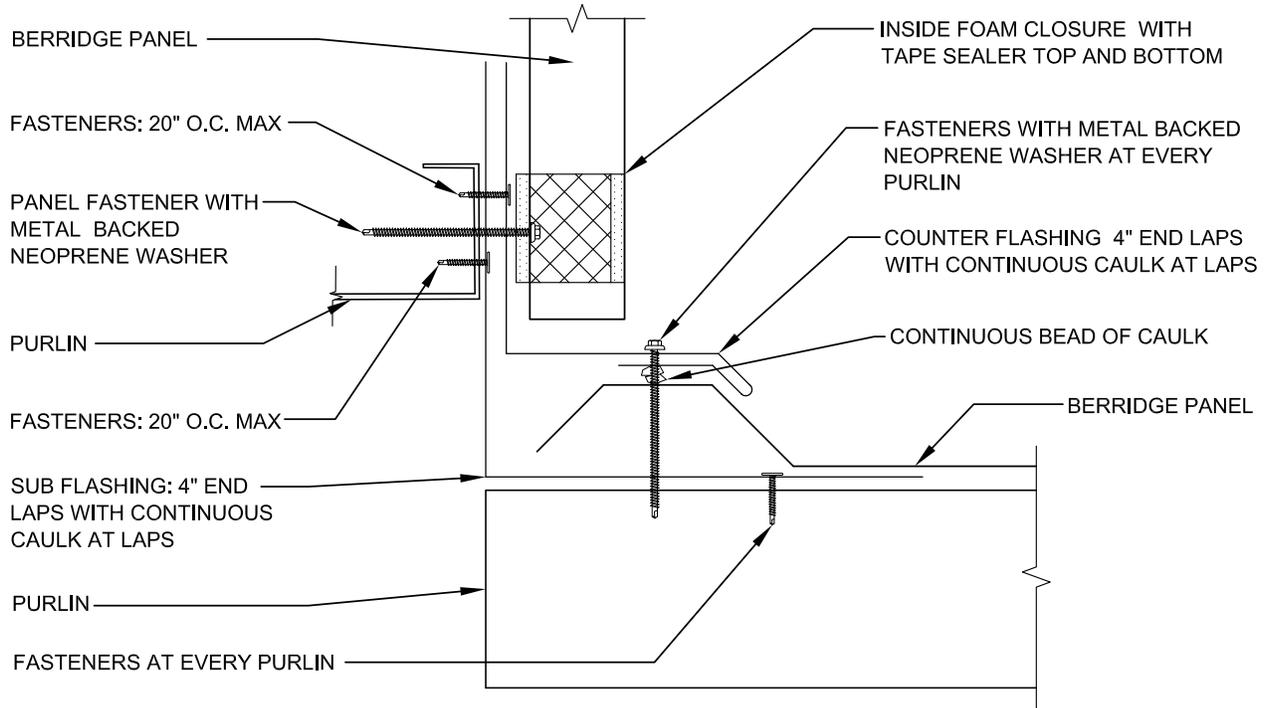
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EXPOSED FASTENER PANELS

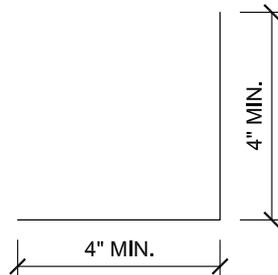
RAKE WALL WITH WALL PANEL DETAIL - OPEN FRAMING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com

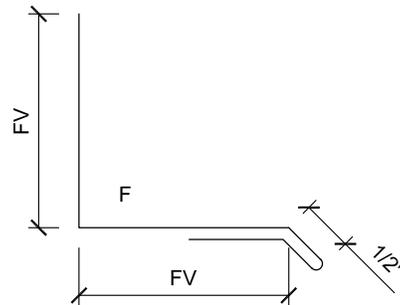


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2. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

F = FINISH SIDE
FV = FIELD VERIFY



SUB FLASHING



COUNTER FLASHING

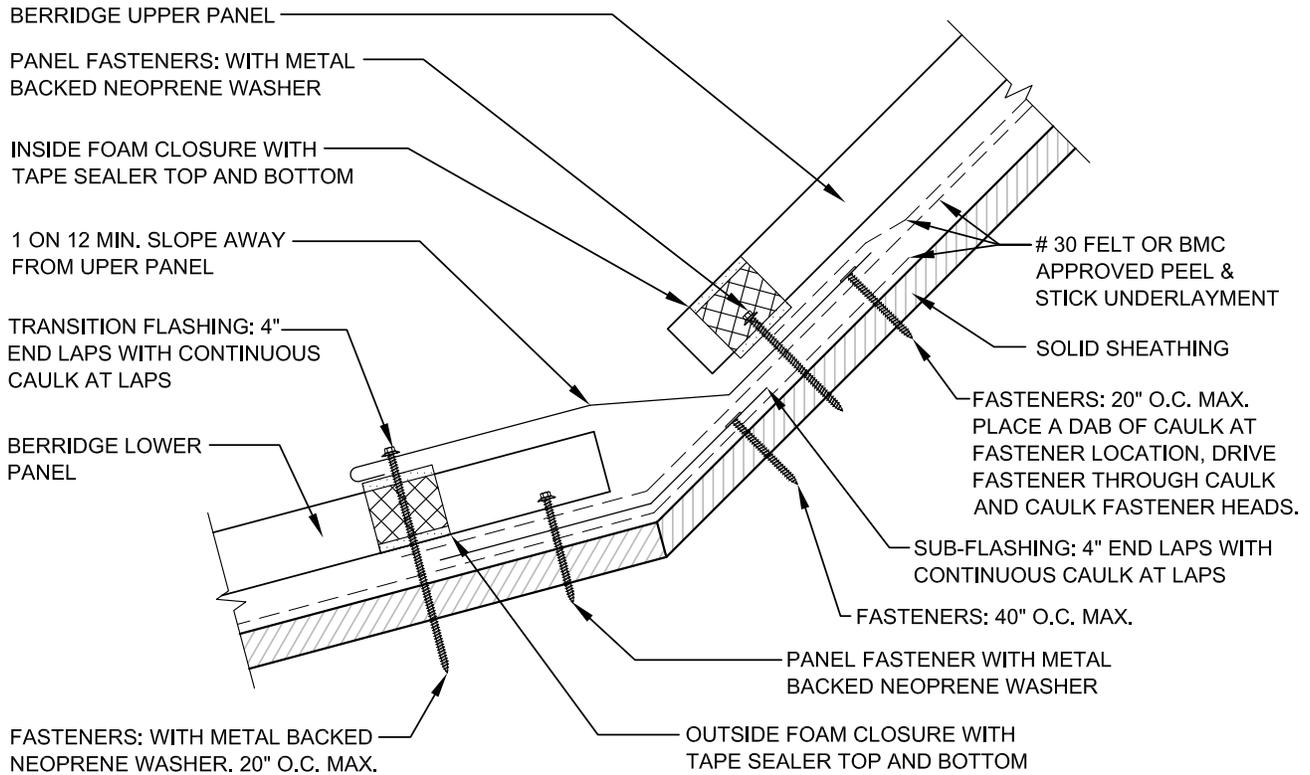
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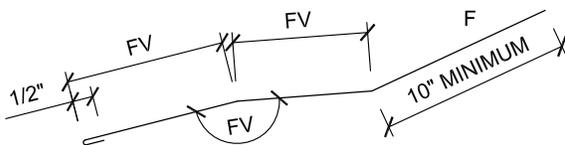
EXPOSED FASTENER PANELS

SLOPE TRANSITION DETAIL

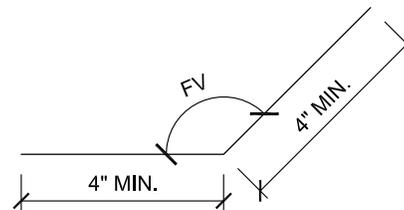


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TRANSITION FLASHING



SUB FLASHING

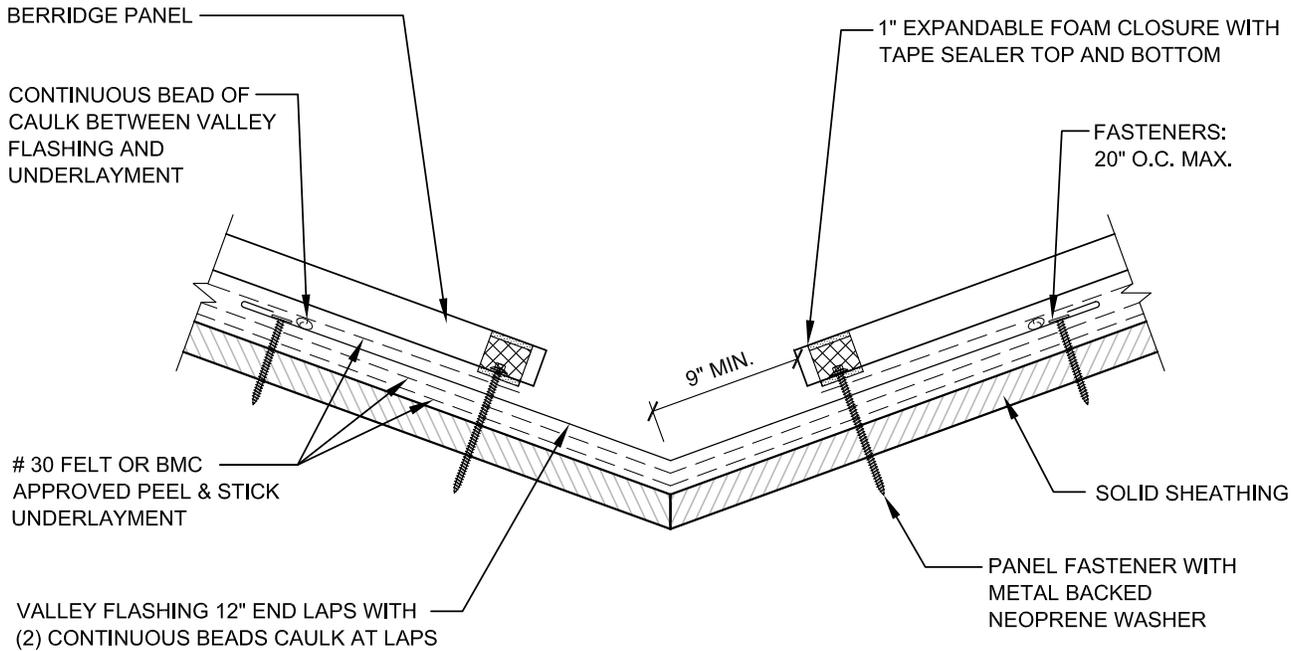
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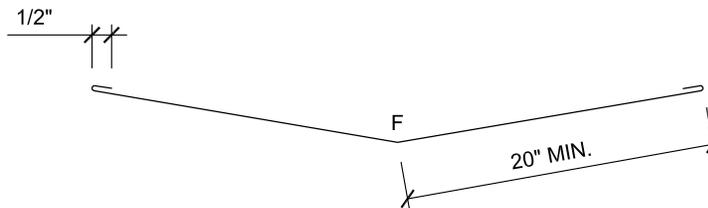
EXPOSED FASTENER PANELS

VALLEY DETAIL - SOLID SHEATHING



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VALLEY FLASHING

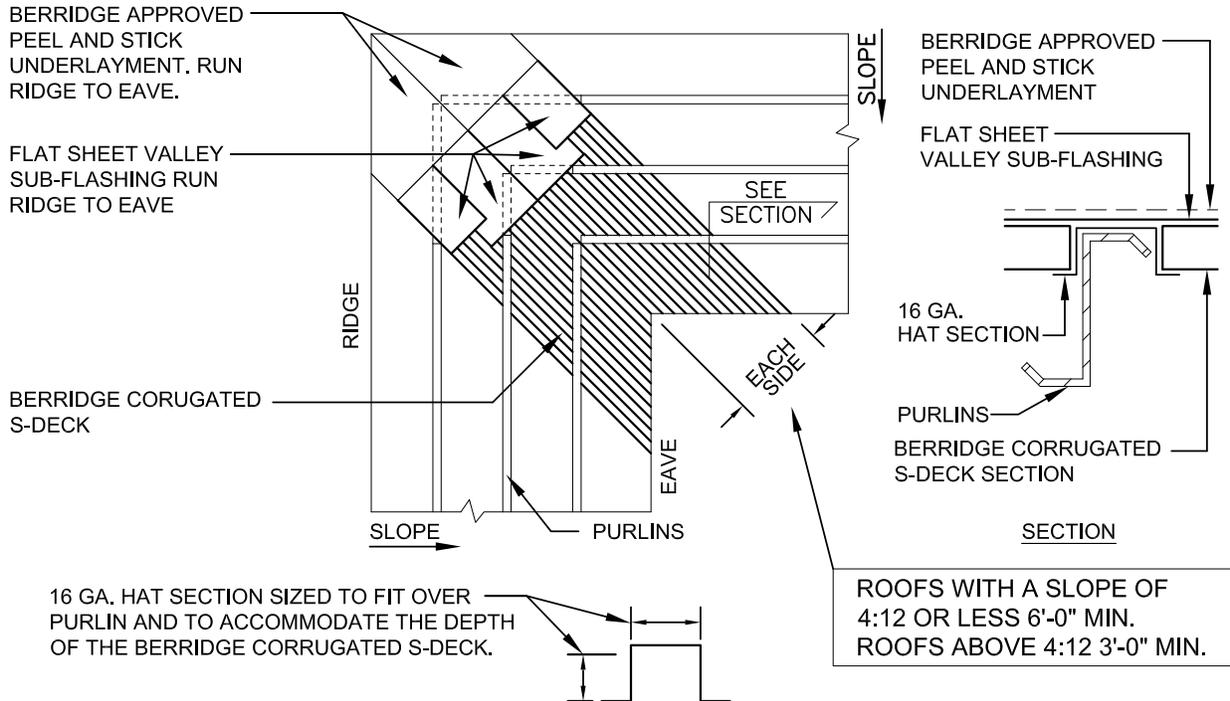
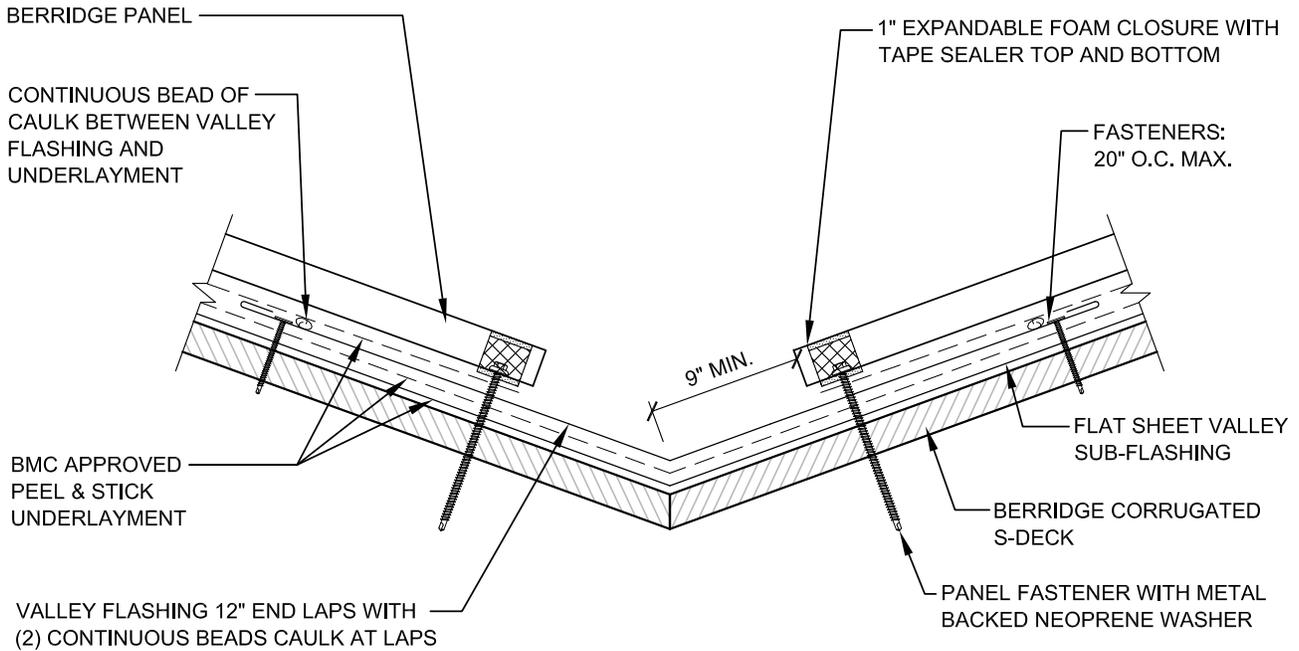
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EXPOSED FASTENER PANELS

VALLEY DETAIL - OPEN FRAMING



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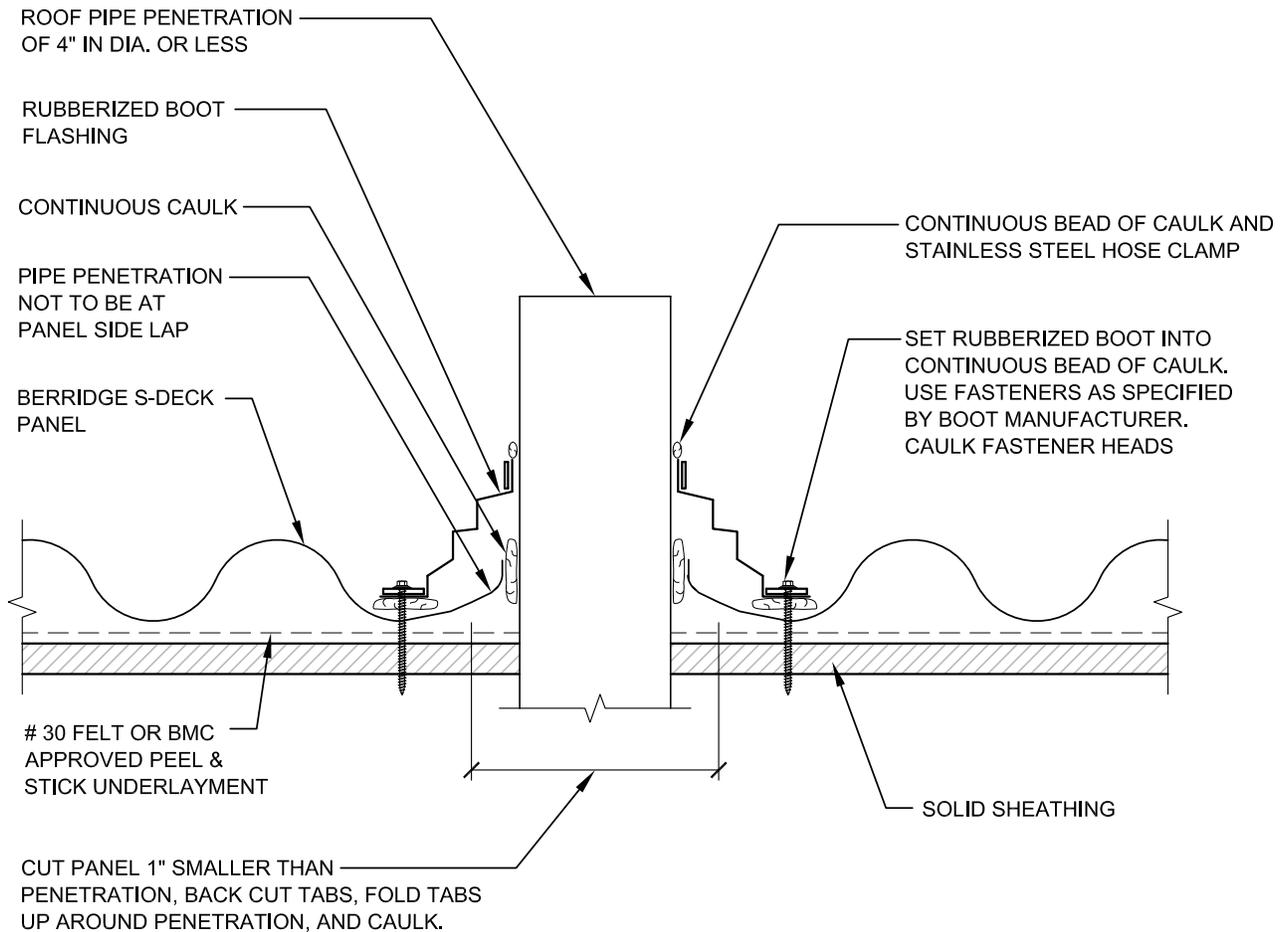
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EXPOSED FASTENER PANELS

ROUND PENETRATION DETAIL (4" DIAMETER OR LESS)

S-Deck shown; for specific product details, visit www.berridge.com



NOTE: IF PIPE IS MADE OF METAL, IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS.

NOTE: POSITION SQUARE BASED BOOTS IN A DIAMOND ORIENTATION WHERE POSSIBLE TO AID IN DIVERTING WATER.

BERRIDGE MANUFACTURING COMPANY

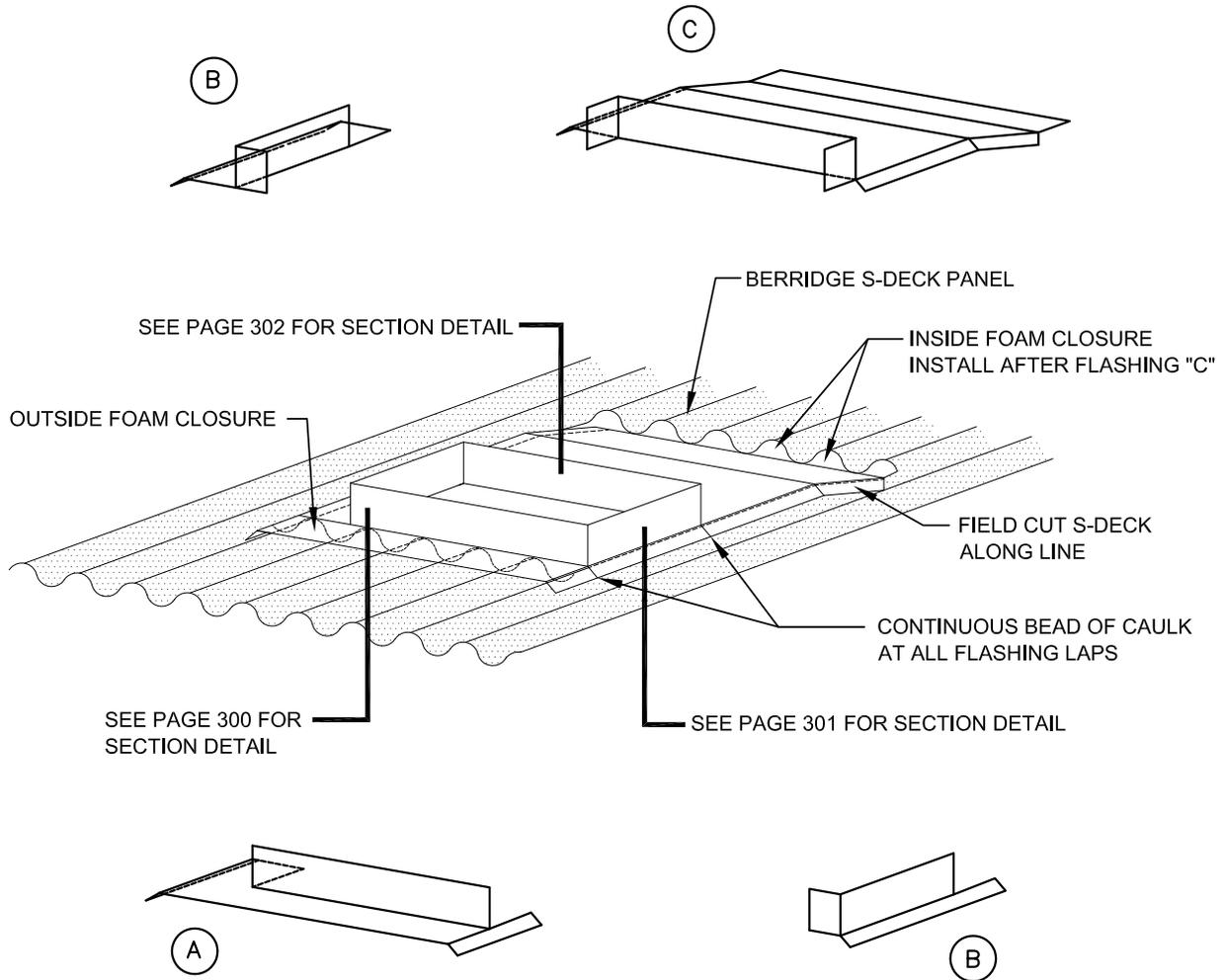
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EXPOSED FASTENER PANELS

SQUARE PENETRATION DETAIL

S-Deck shown; for specific product details, visit www.berridge.com



FIELD CUT PANEL ALONG DOTTED LINE AND INSTALL PANEL. INSTALL FLASHING "A" FIRST ALONG WITH FOAM CLOSURE. INSTALL FLASHING "B" SECOND. CAULK ALL FLASHING LAPS. INSTALL FLASHING SPACE "C" LAST. THIS FLASHING IS TO BE SLIPPED UNDER THE S-DECK PANEL AND UNDERLAYMENT AS SHOWN ON PAGE 302 BEFORE THE FOAM CLOSURE OR FASTENERS ARE INSTALLED. SEE ALSO PAGE 300 AND 301 FOR UNDERLAYMENT AND SUB FLASHING.

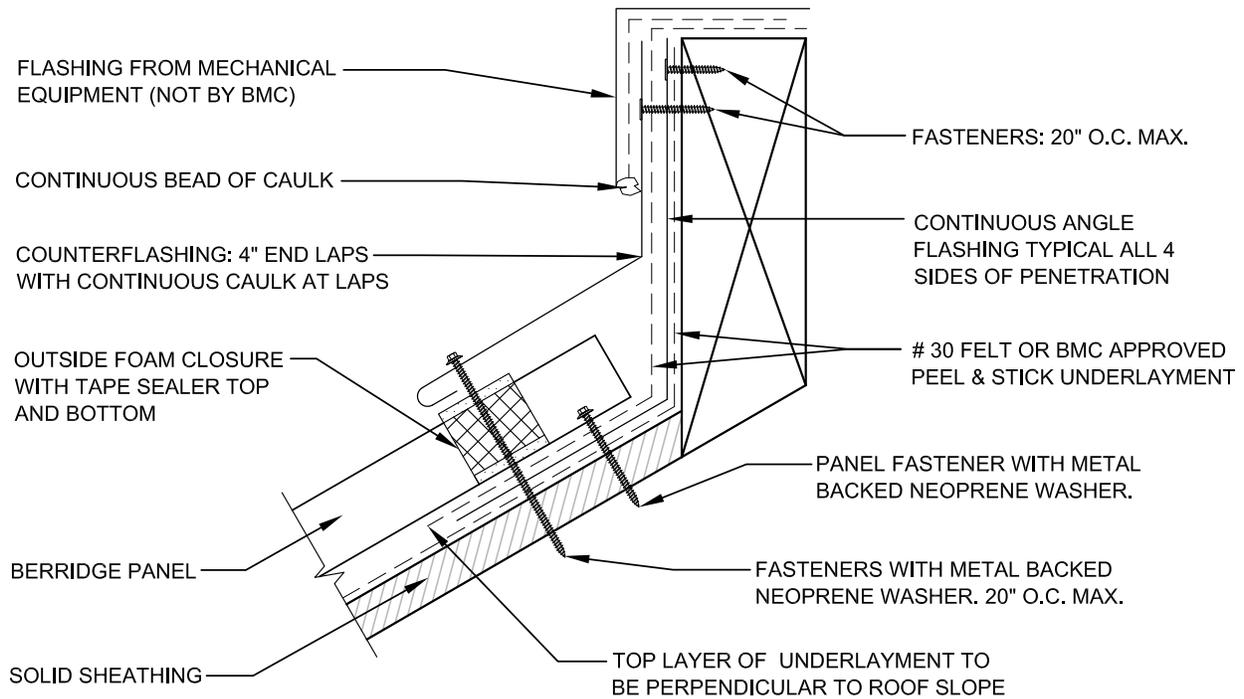
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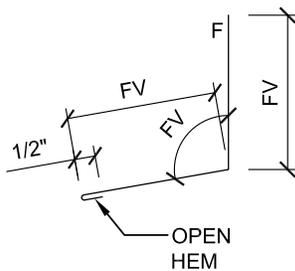
EXPOSED FASTENER PANELS

SQUARE PENETRATION DETAIL - SIDE A

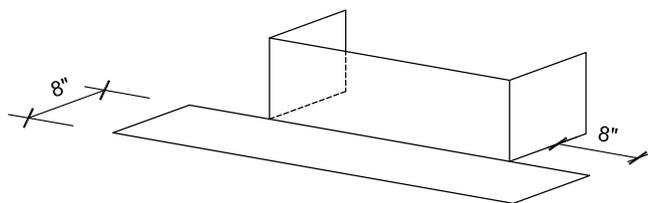


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4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.

F = FINISH SIDE
FV = FIELD VERIFY



COUNTER FLASHING
SIDE A



ANGLE FLASHING

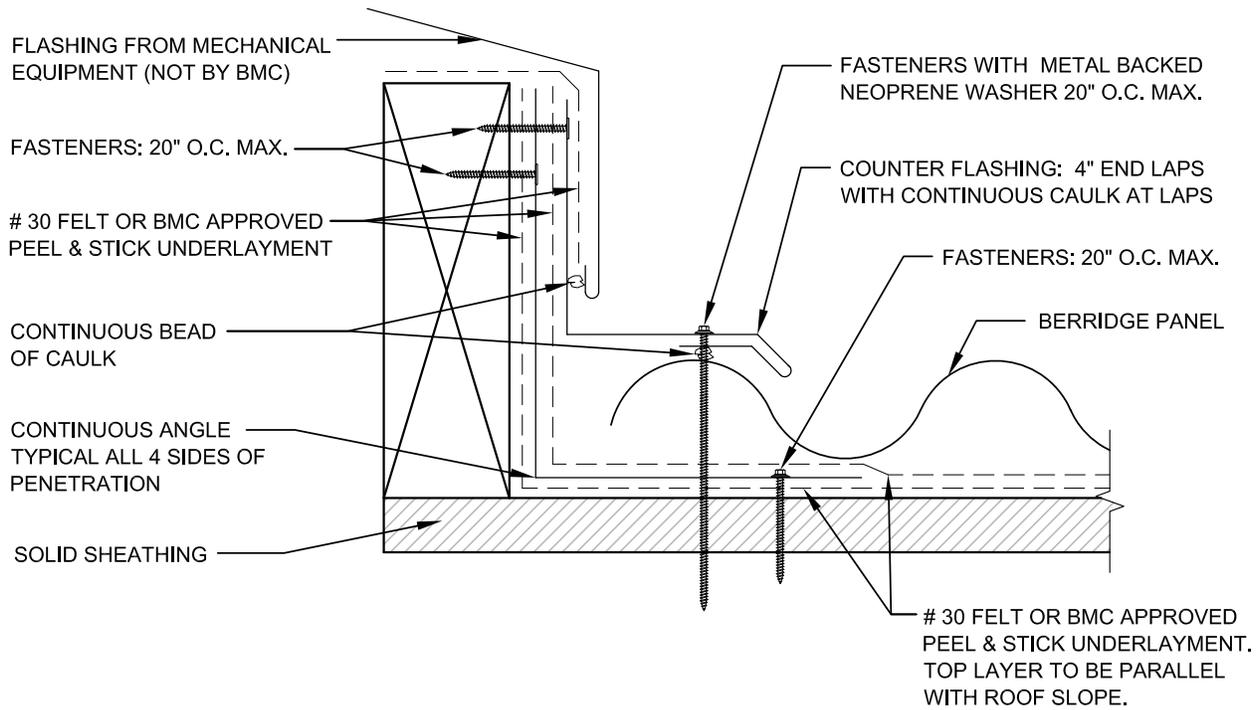
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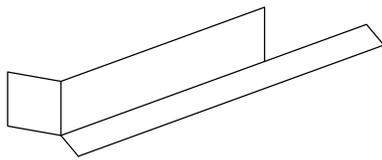
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EXPOSED FASTENER PANELS

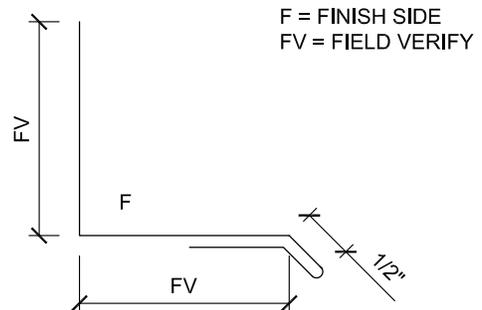
SQUARE PENETRATION DETAIL - SIDE B



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4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



ANGLE FLASHING
SIDE B



COUNTER FLASHING

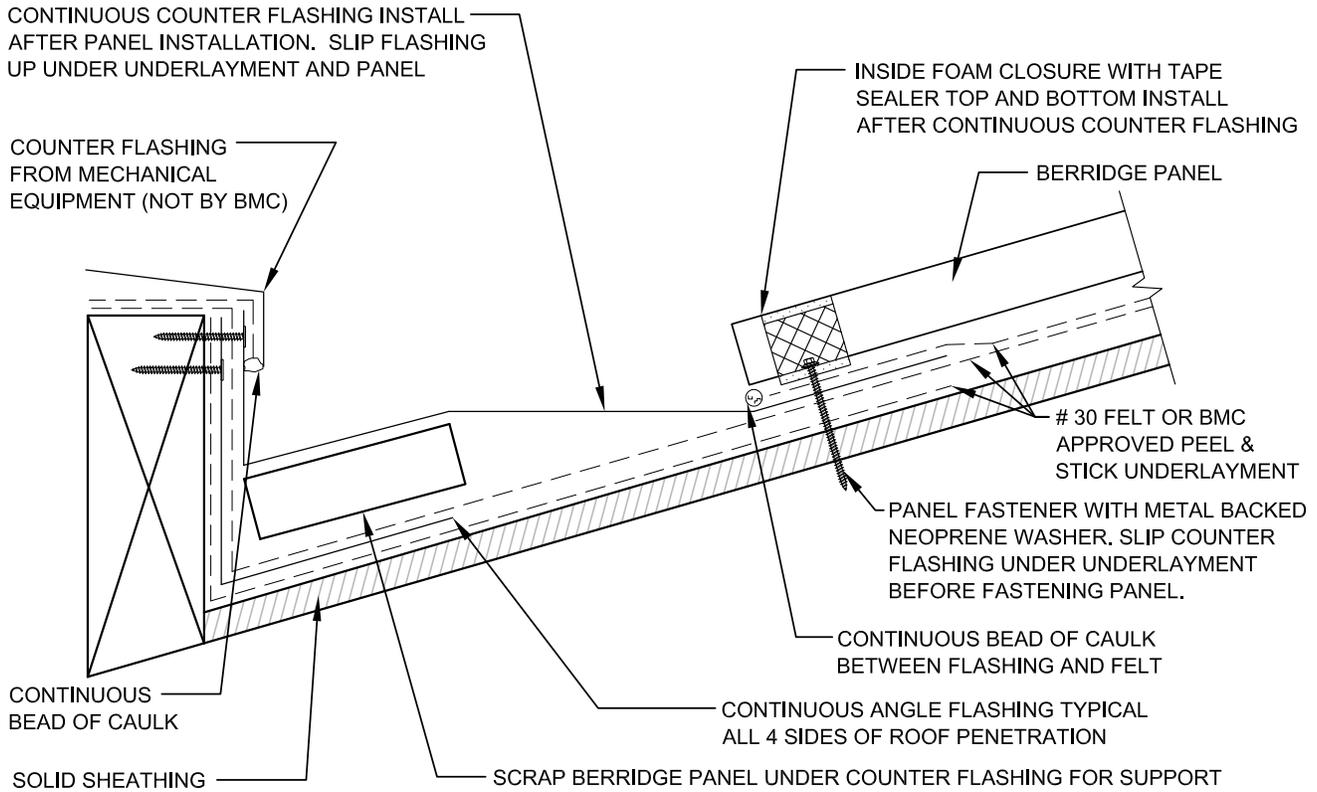
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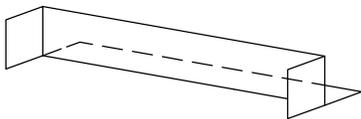
EXPOSED FASTENER PANELS

SQUARE PENETRATION DETAIL - SIDE C

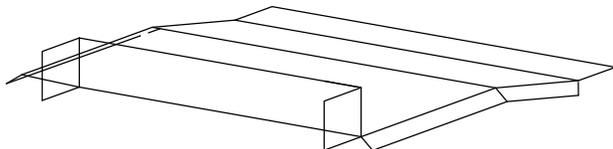


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ANGLE FLASHING



COUNTER FLASHING
SIDE C

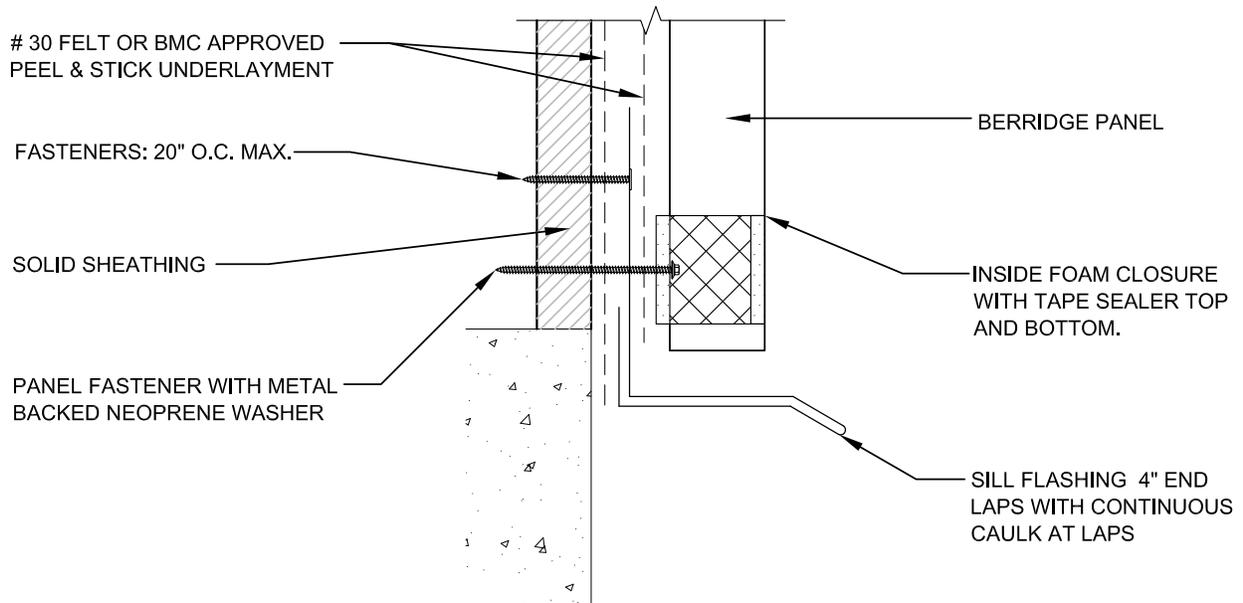
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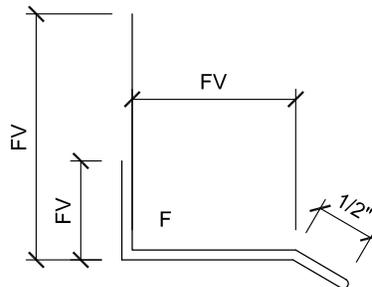
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EXPOSED FASTENER PANELS

SILL AT SLAB DETAIL - SOLID SHEATHING



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SILL FLASHING

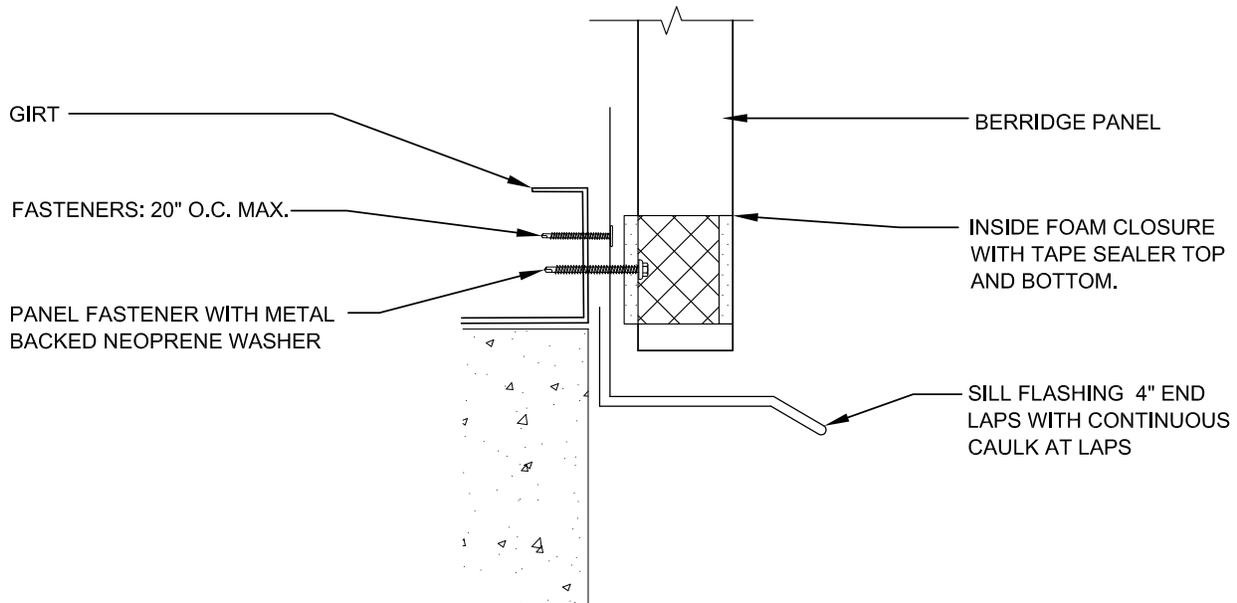
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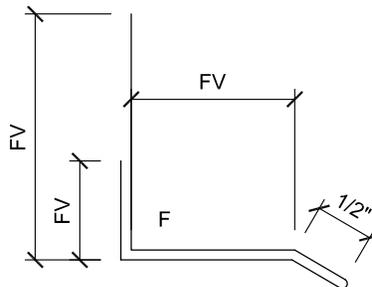
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EXPOSED FASTENER PANELS

SILL AT SLAB DETAIL - OPEN FRAMING



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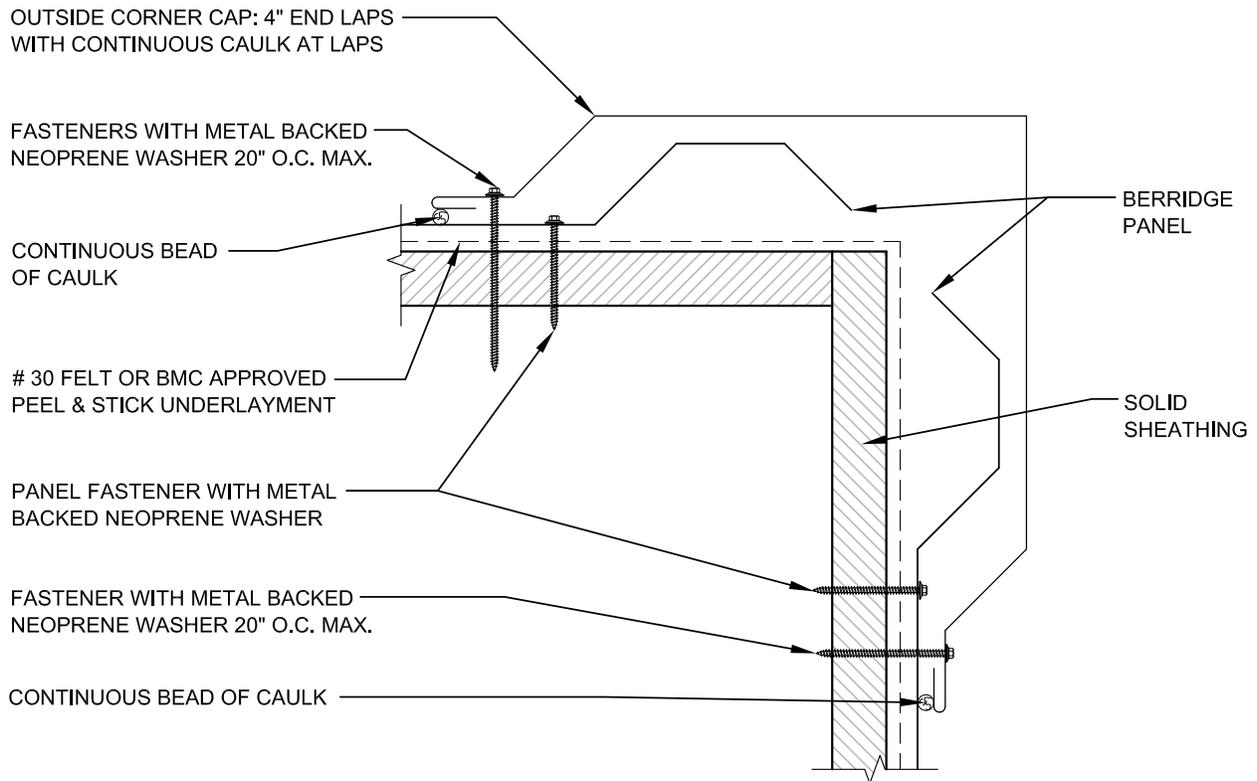
F = FINISH SIDE
FV = FIELD VERIFY

SILL FLASHING

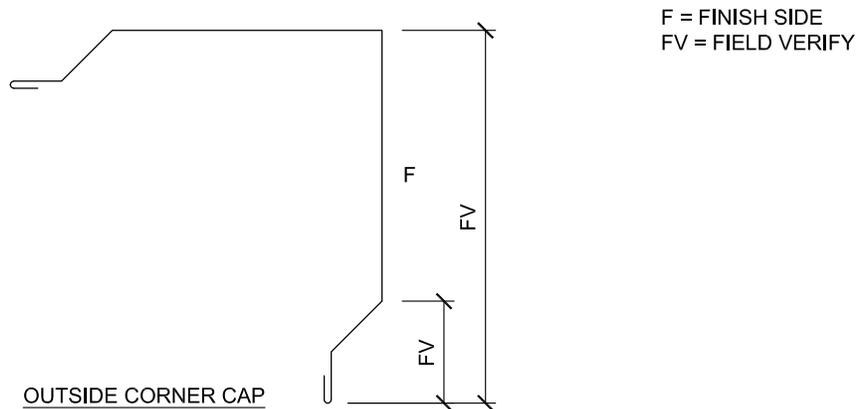
EXPOSED FASTENER PANELS

OUTSIDE CORNER - SOLID SHEATHING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com



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BERRIDGE MANUFACTURING COMPANY

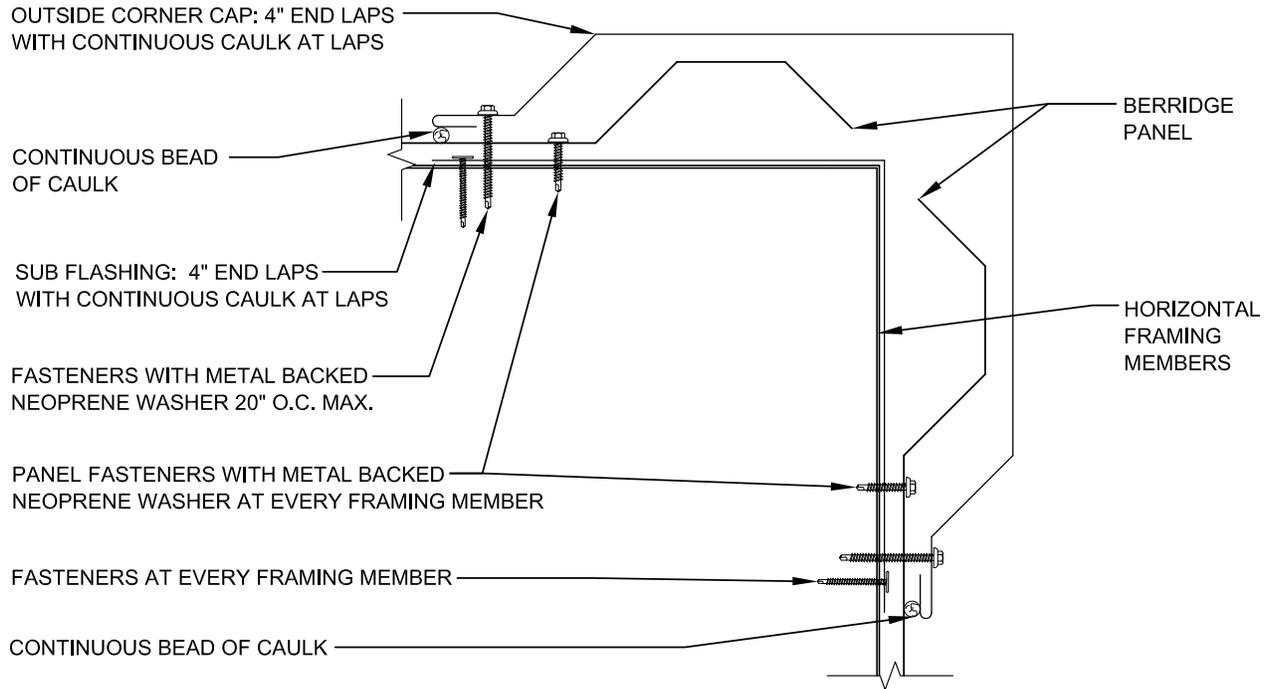
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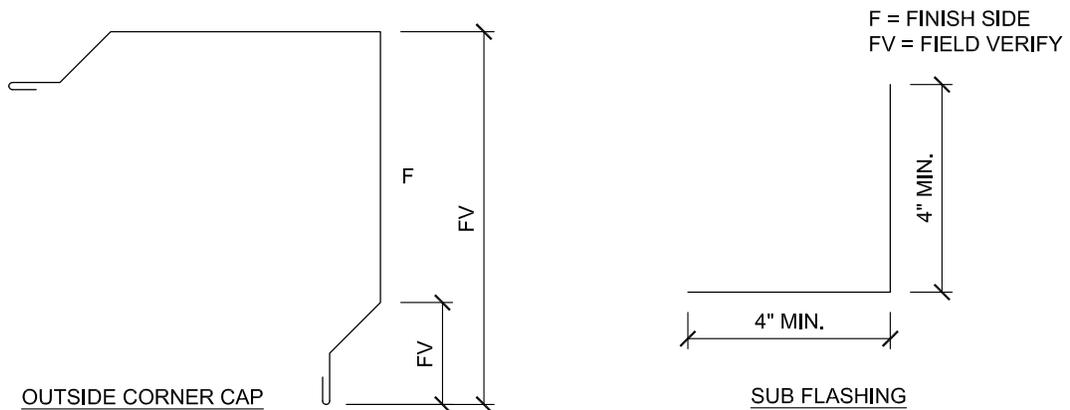
EXPOSED FASTENER PANELS

OUTSIDE CORNER - OPEN FRAMING

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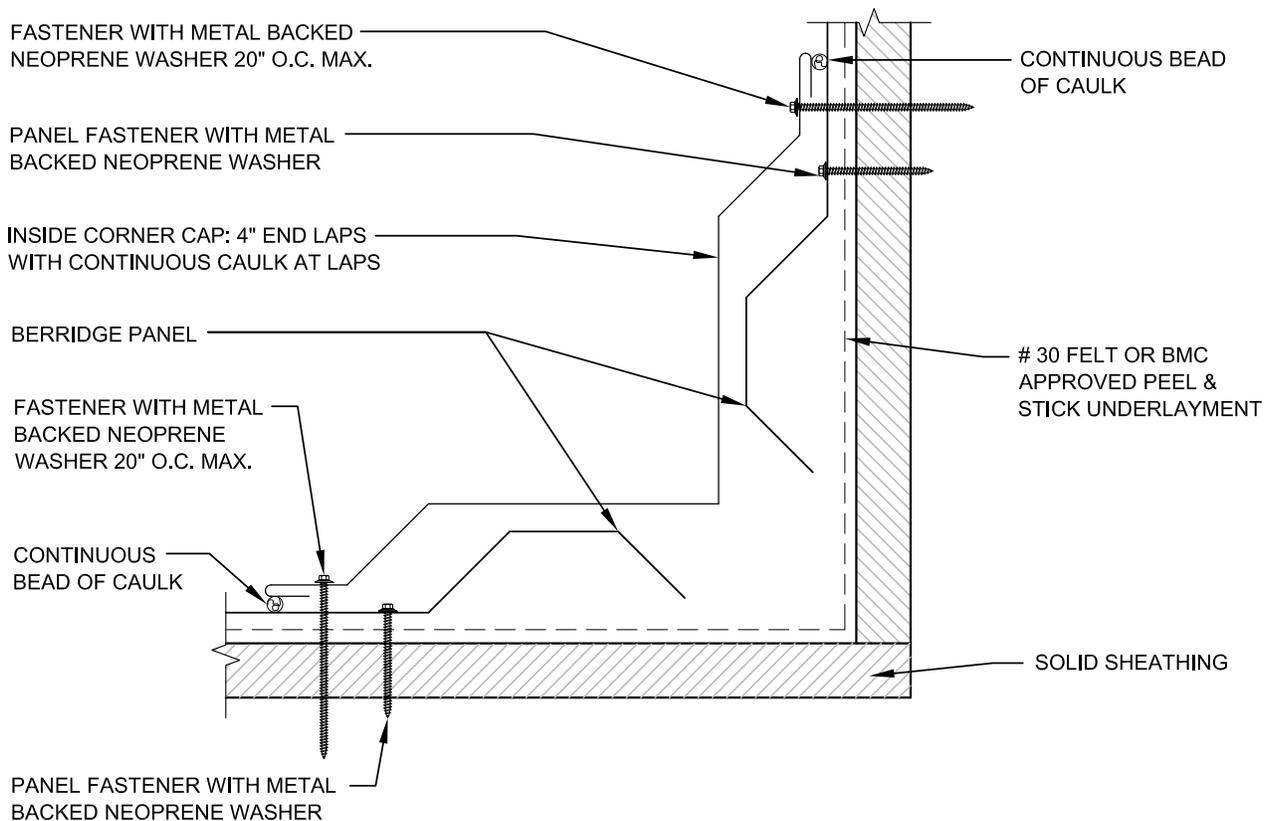
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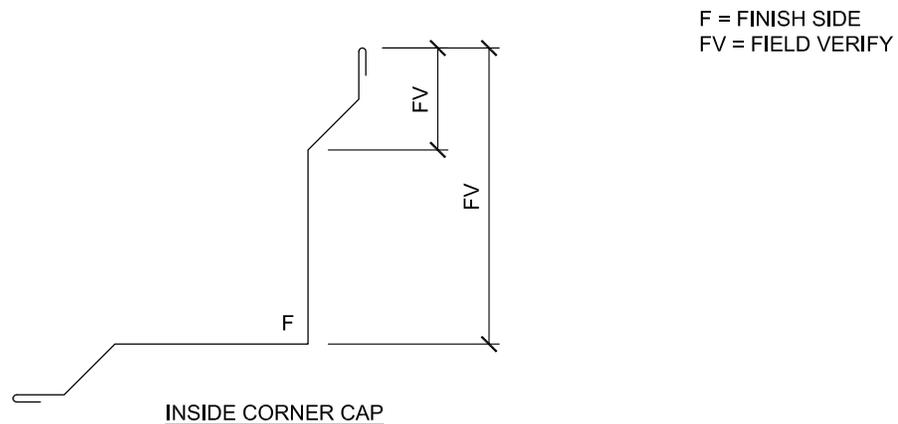
EXPOSED FASTENER PANELS

INSIDE CORNER - SOLID SHEATHING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com



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3. USE BMC APPROVED PEEL & STICK UNDERLAYMENT FOR CURVED S-DECK.
4. DOUBLE RIB TO BE OVER SOLID SHEATHING ONLY.



BERRIDGE MANUFACTURING COMPANY

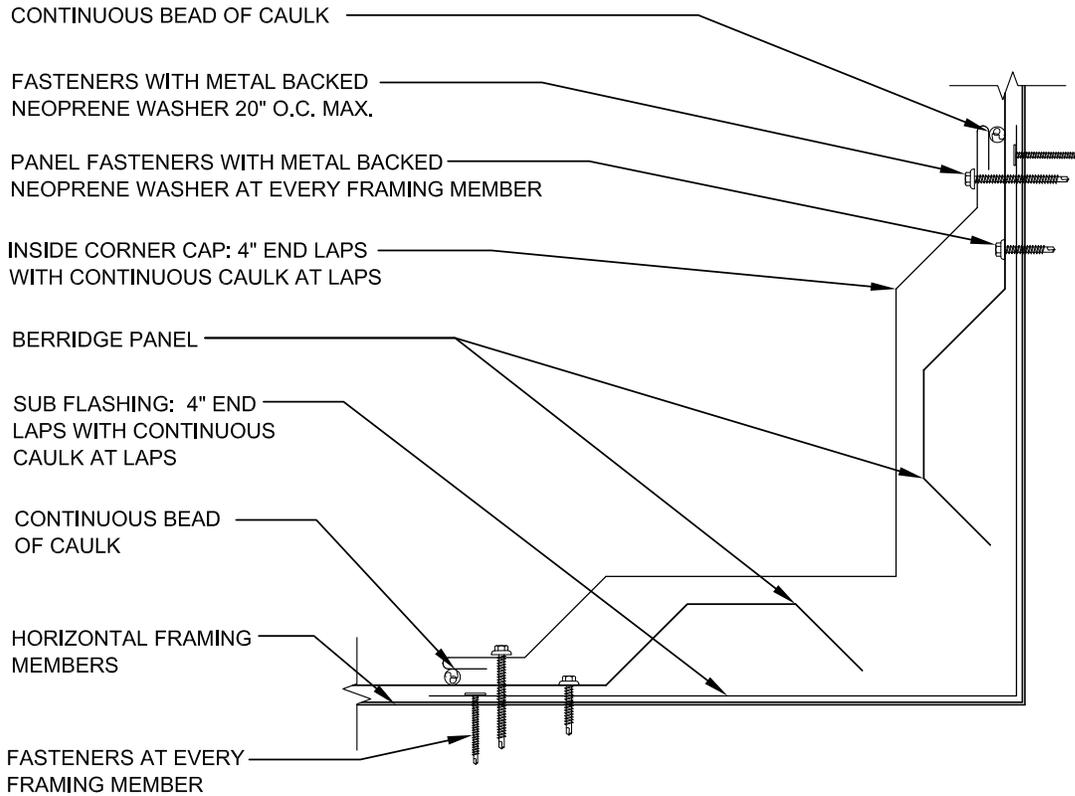
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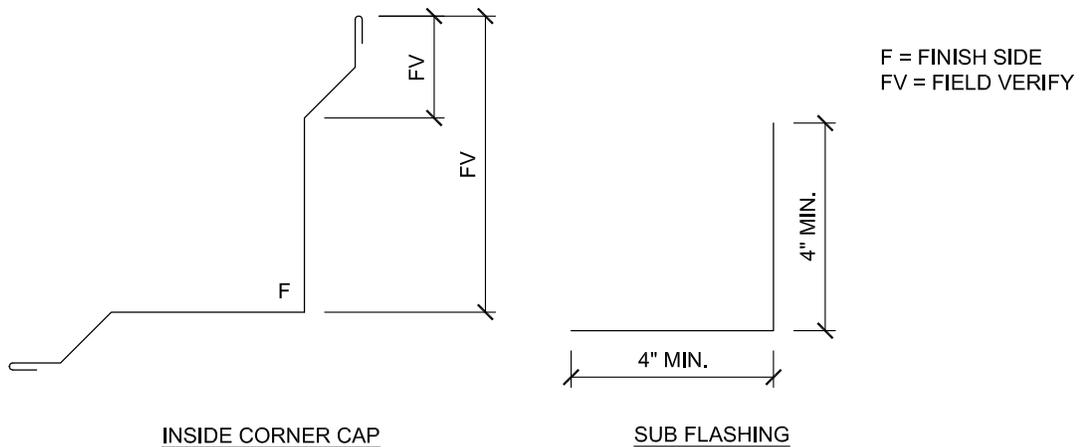
EXPOSED FASTENER PANELS

INSIDE CORNER - OPEN FRAMING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com



1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
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F = FINISH SIDE
FV = FIELD VERIFY

INSIDE CORNER CAP

SUB FLASHING

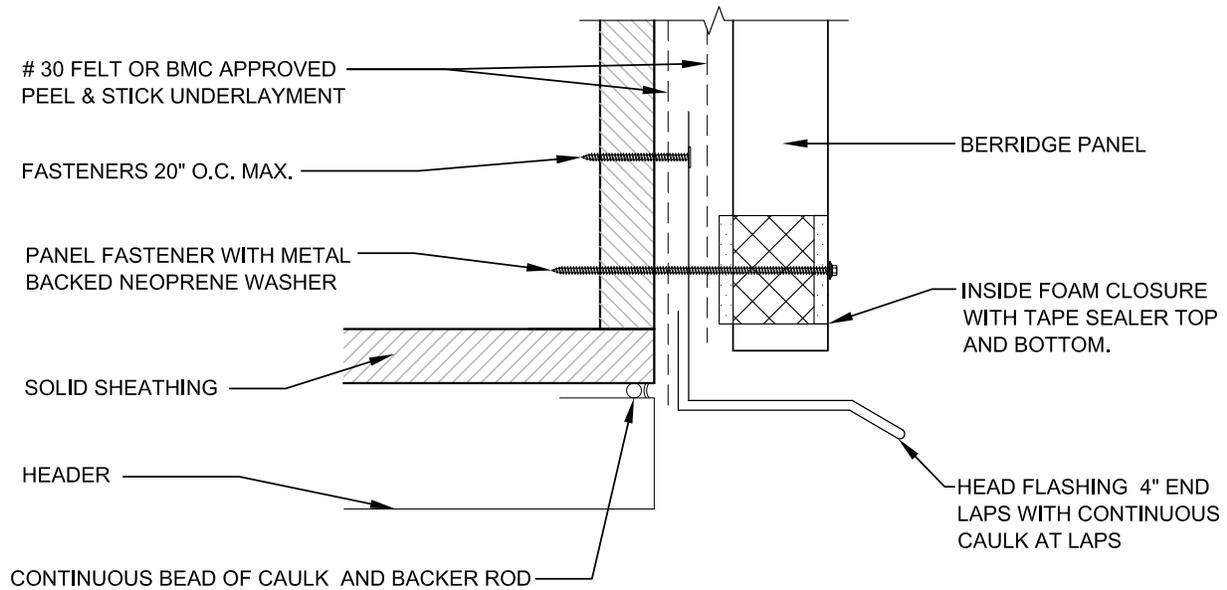
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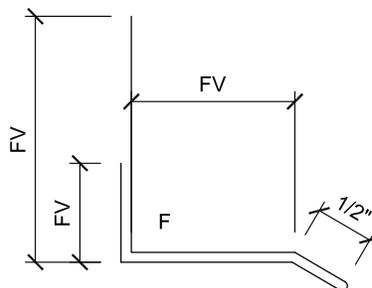
EXPOSED FASTENER PANELS

HEADER DETAIL - SOLID SHEATHING



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HEAD FLASHING

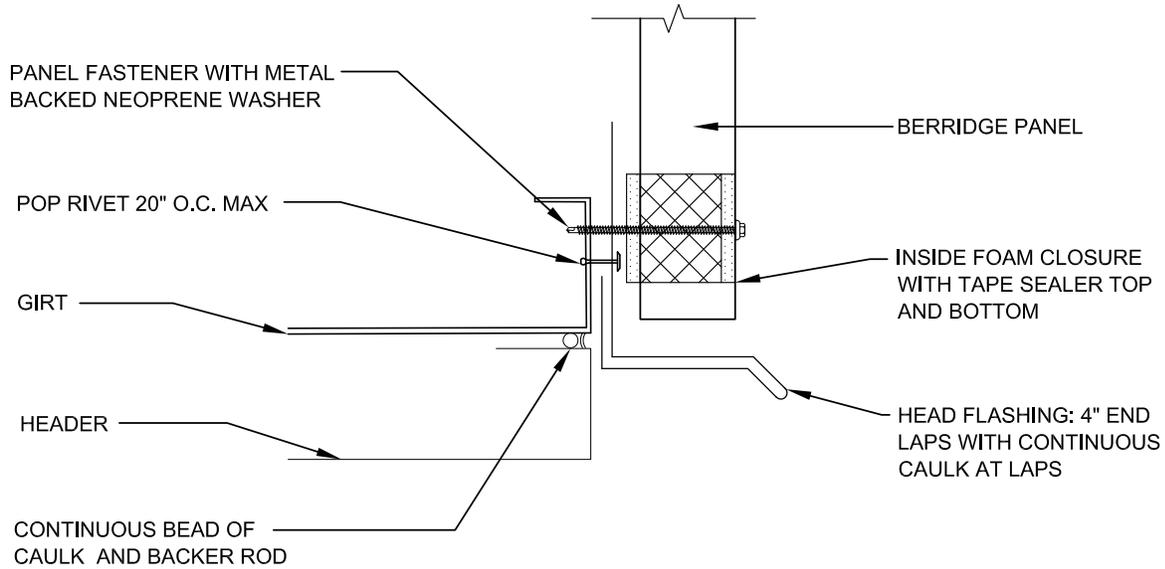
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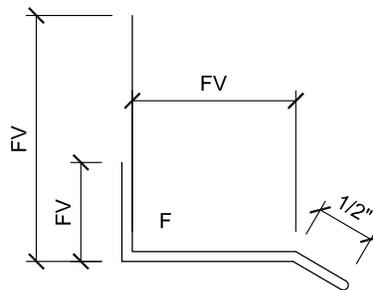
EXPOSED FASTENER PANELS

HEADER DETAIL - OPEN FRAMING



1. REFERENCE BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE SECTION 9 FOR MINIMUM FASTENER REQUIREMENTS)
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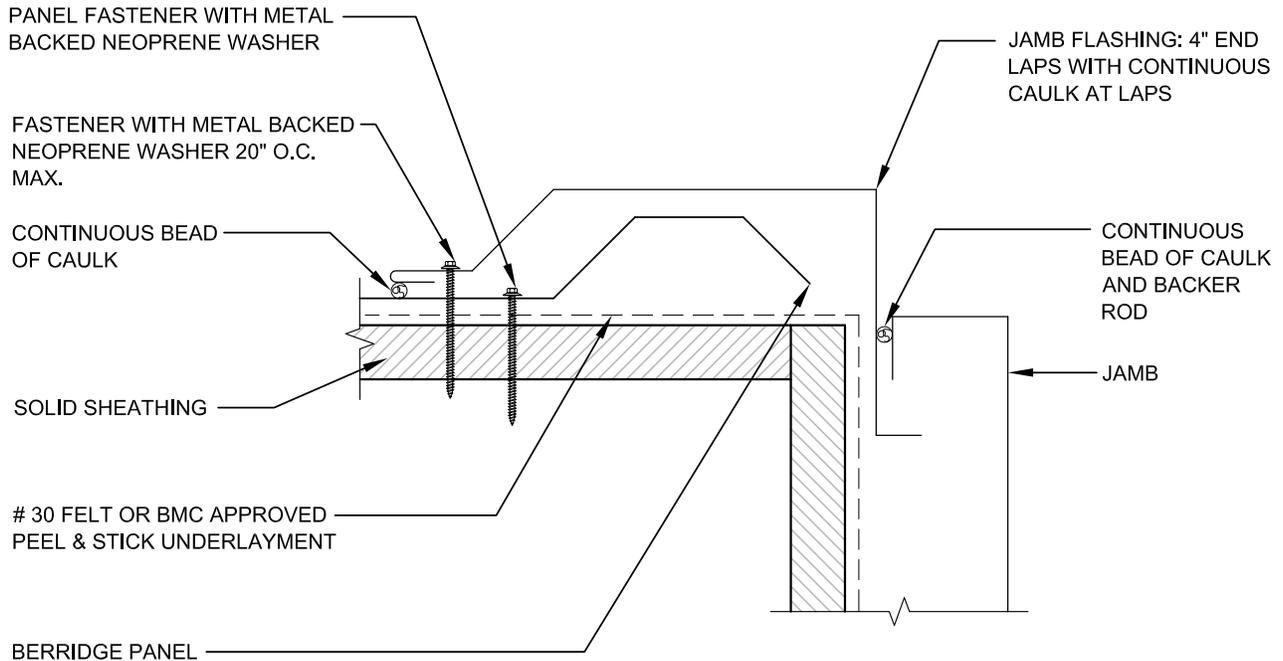


HEAD FLASHING

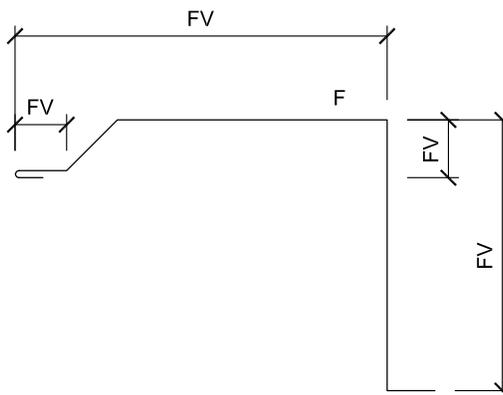
EXPOSED FASTENER PANELS

JAMB DETAIL - SOLID SHEATHING

Deep-Deck, M-Panel & R-Panel shown; for specific product details, visit www.berridge.com



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JAMB FLASHING

BERRIDGE MANUFACTURING COMPANY

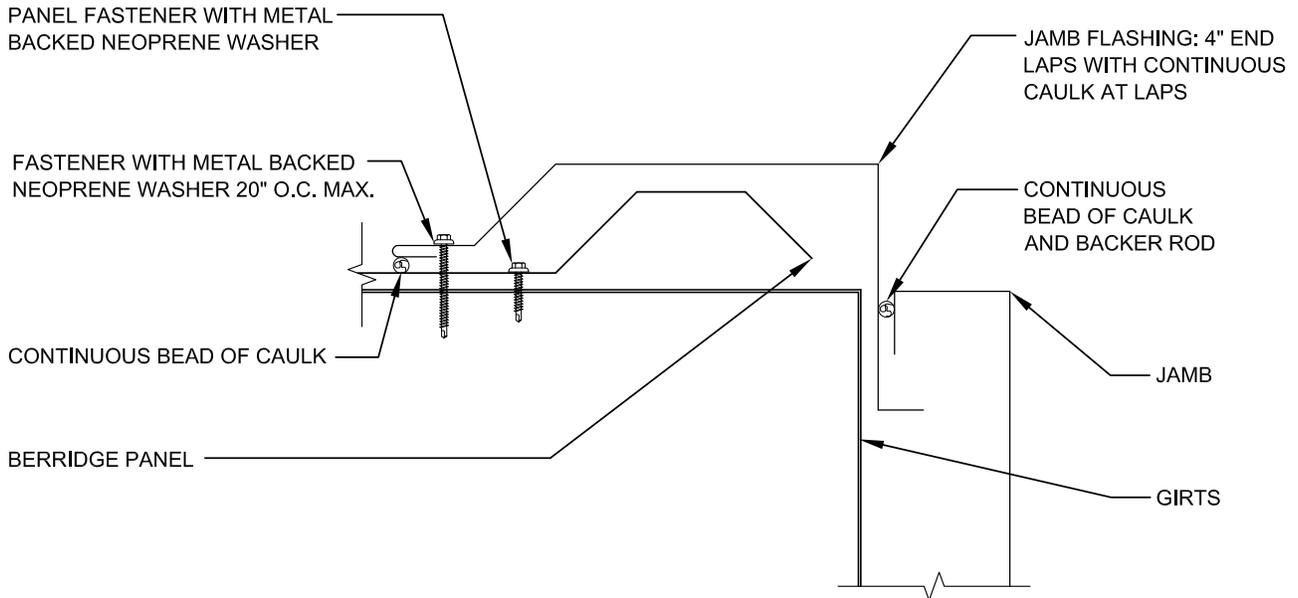
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EXPOSED FASTENER PANELS

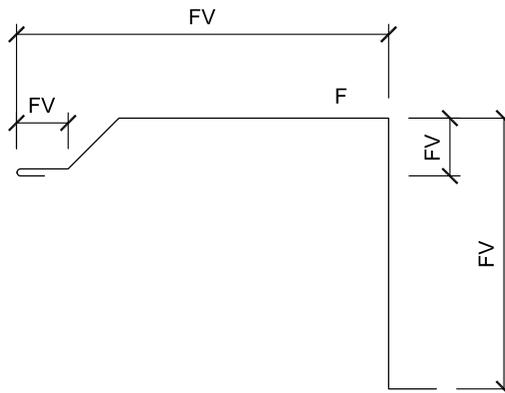
JAMB DETAIL - OPEN FRAMING

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JAMB FLASHING

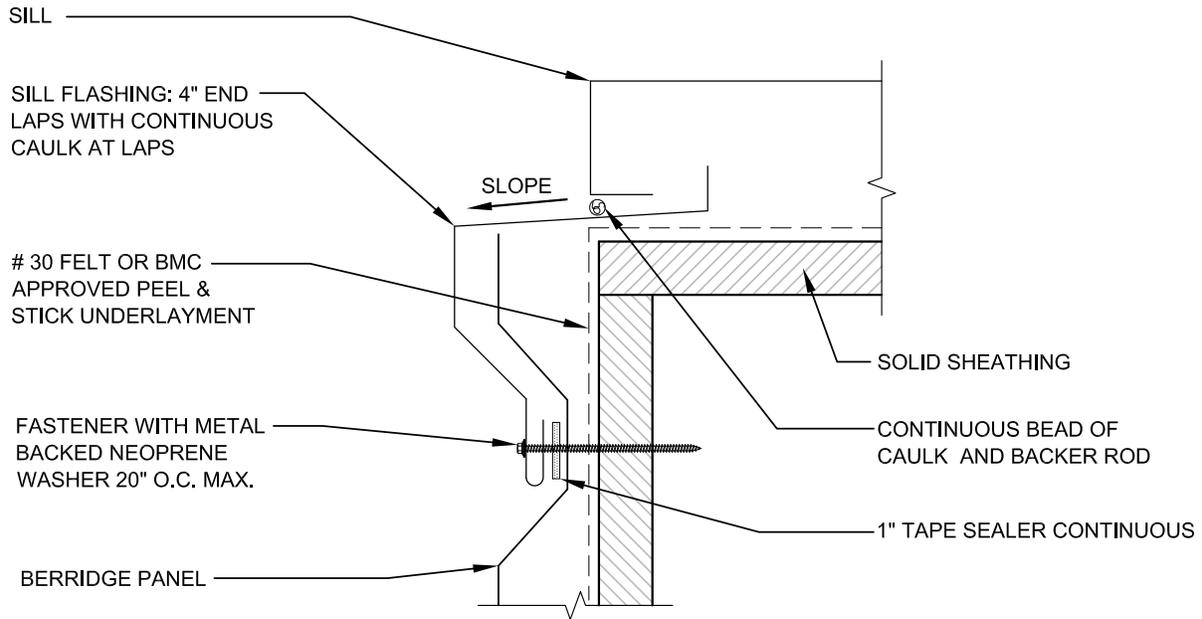
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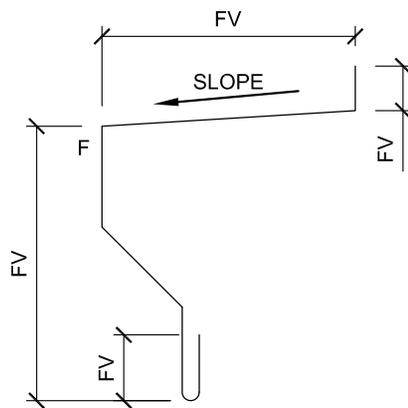
EXPOSED FASTENER PANELS

SILL DETAIL - SOLID SHEATHING



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SILL FLASHING

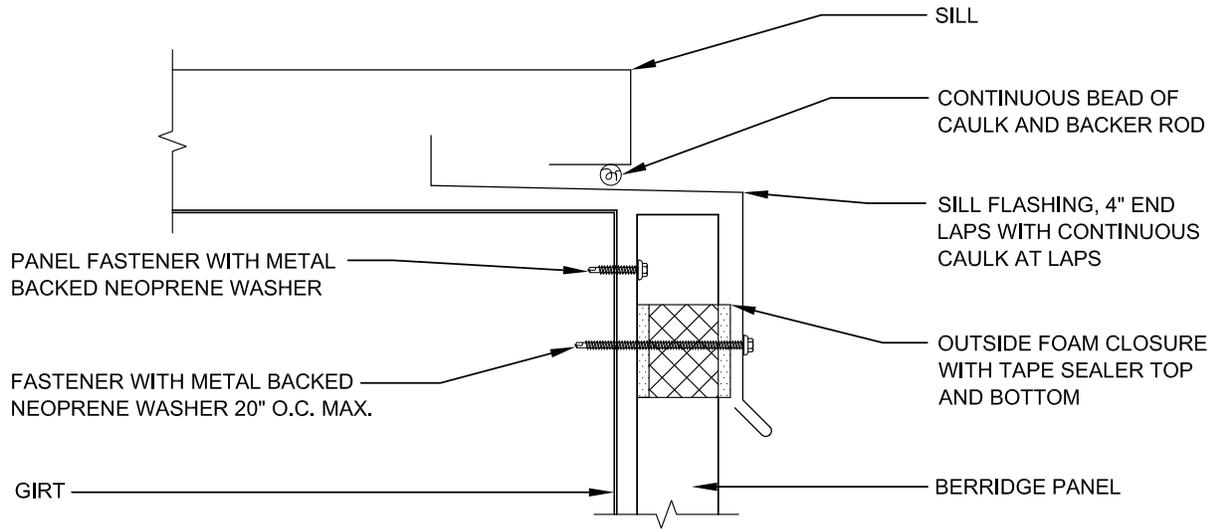
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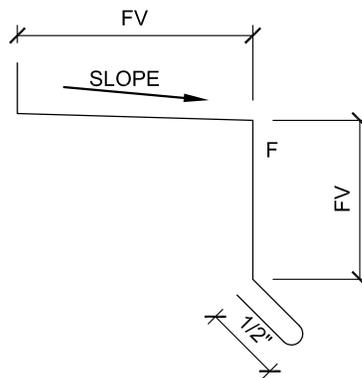
EXPOSED FASTENER PANELS

SILL DETAIL - OPEN FRAMING



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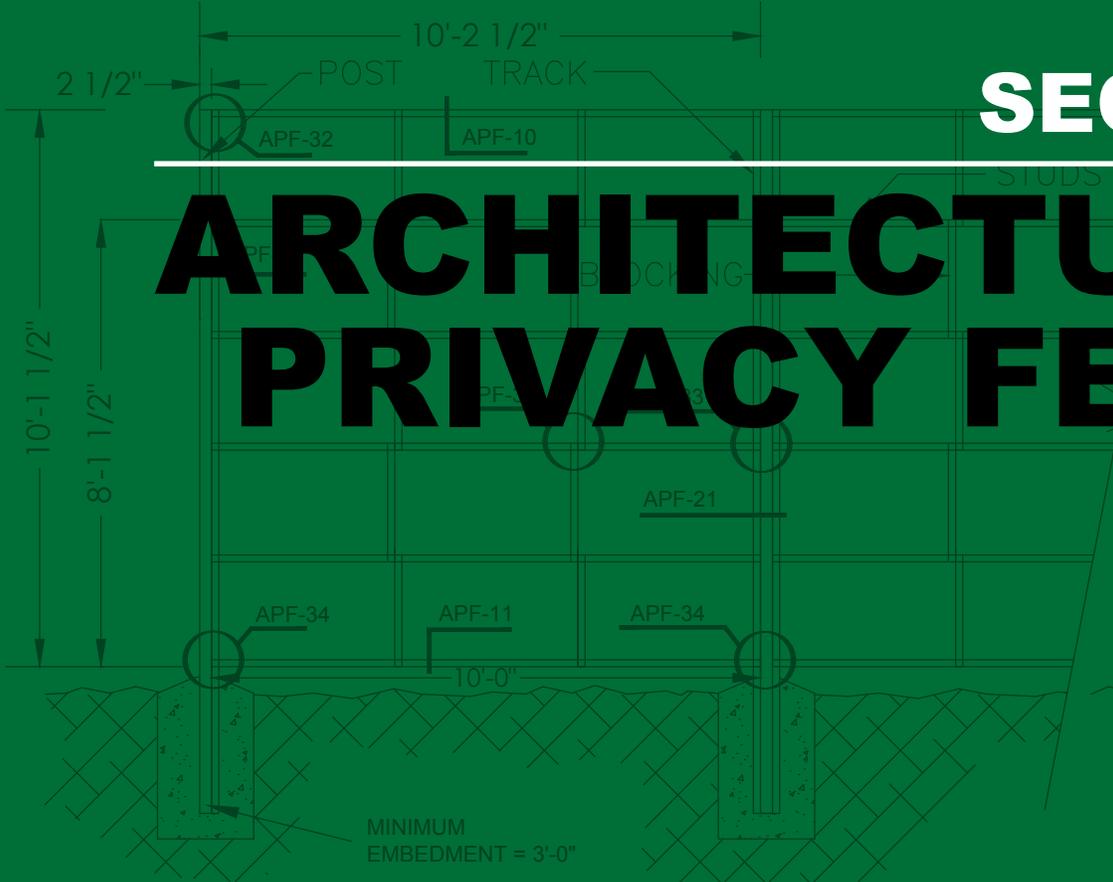
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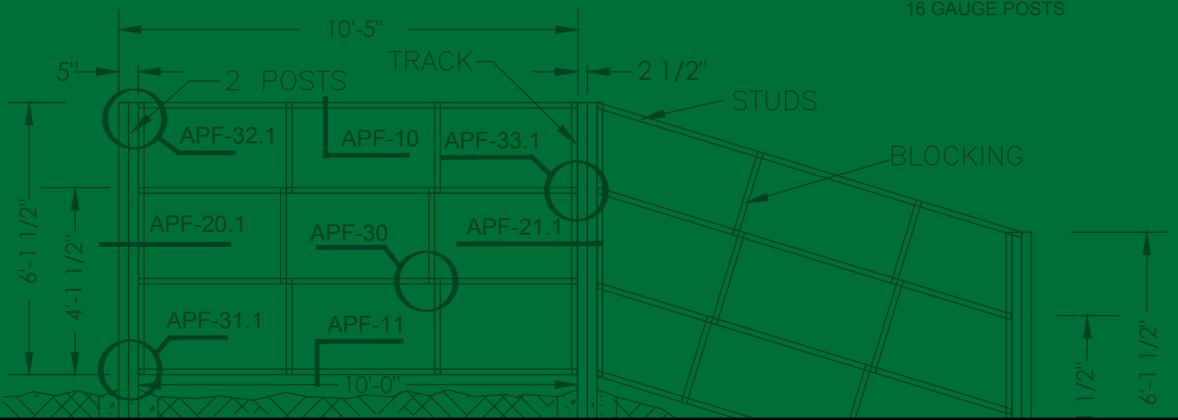
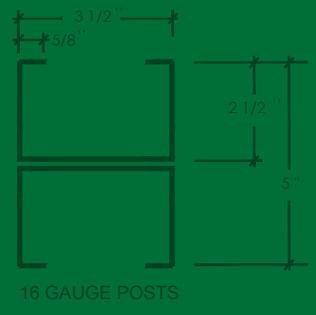
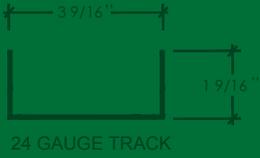
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SECTION 7

ARCHITECTURAL PRIVACY FENCE



- PRIVACY FENCE OVERVIEW
- TYPICAL DETAILS



For the most up-to-date information visit www.berridge.com

4" Z FENCE X 10'-2 1/2" = 42.6 3/4"

SLOPED



SECTION 7 PRIVACY FENCE SYSTEM

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NOTE:

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements.

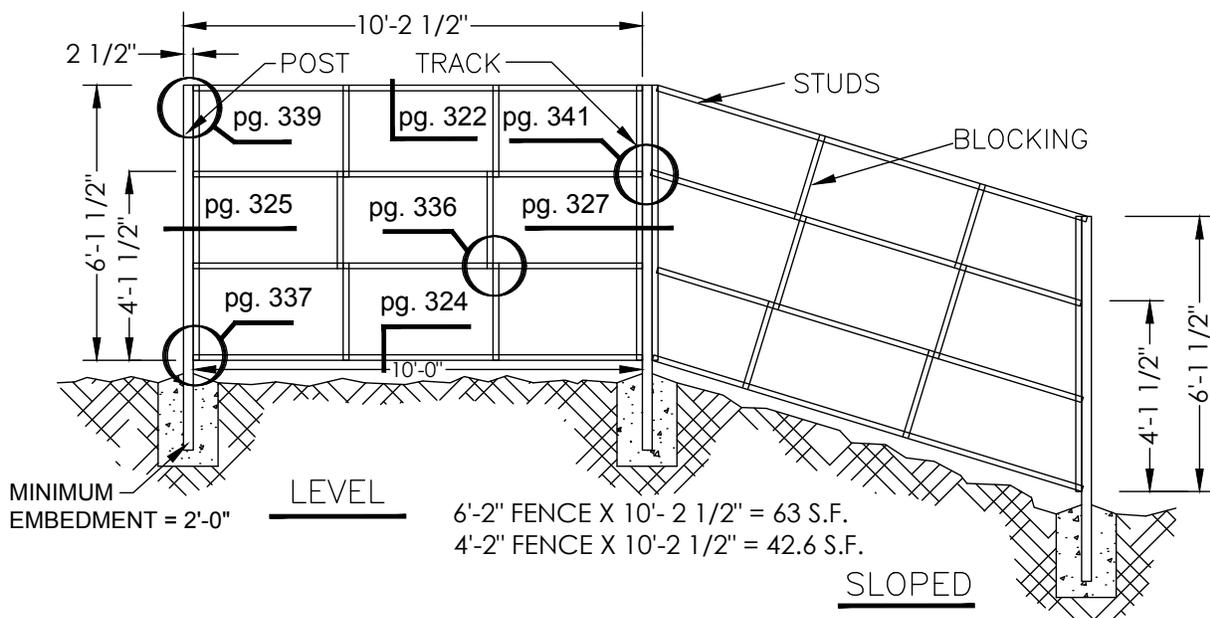
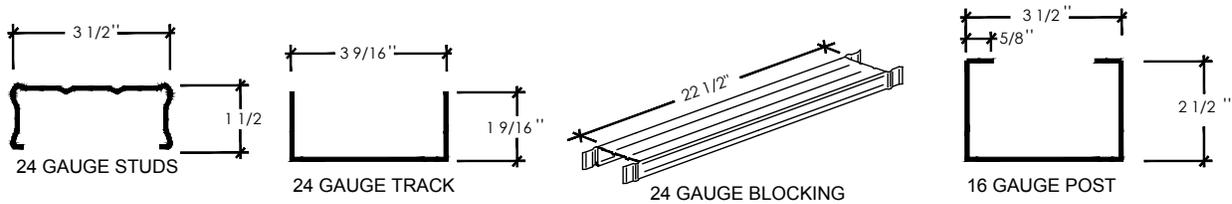
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PRIVACY FENCE

PRIVACY FENCE OVERVIEW 4'-2" & 6'-2" - ONE POST



STANDARD FENCE HEIGHTS ARE 6'-2" OR 4'-2".

BERRIDGE 16 GAUGE 2 1/2" x 3 1/2" GALVANIZED STEEL CHANNEL POSTS ARE SPACED PLUMB 10'-0" APART OR 10'-2 1/2" ON CENTER.

BERRIDGE 24 GAUGE SPACEFRAME STUDS RUN HORIZONTALLY SPACED 24" O.C.; VERTICAL BLOCKING ARE SPACED AT 40" FROM EACH END OF METAL STUDS.

BERRIDGE 24 TRACK, 6'-1 1/2" OR 4'-1 1/2" LONG IS ATTACHED TO EACH SIDE OF THE POST.

BERRIDGE PREFINISHED ARCHITECTURAL PANELS 6'-2" OR 4'-2" LONG ARE APPLIED TO BOTH SIDES OF THE FENCE.

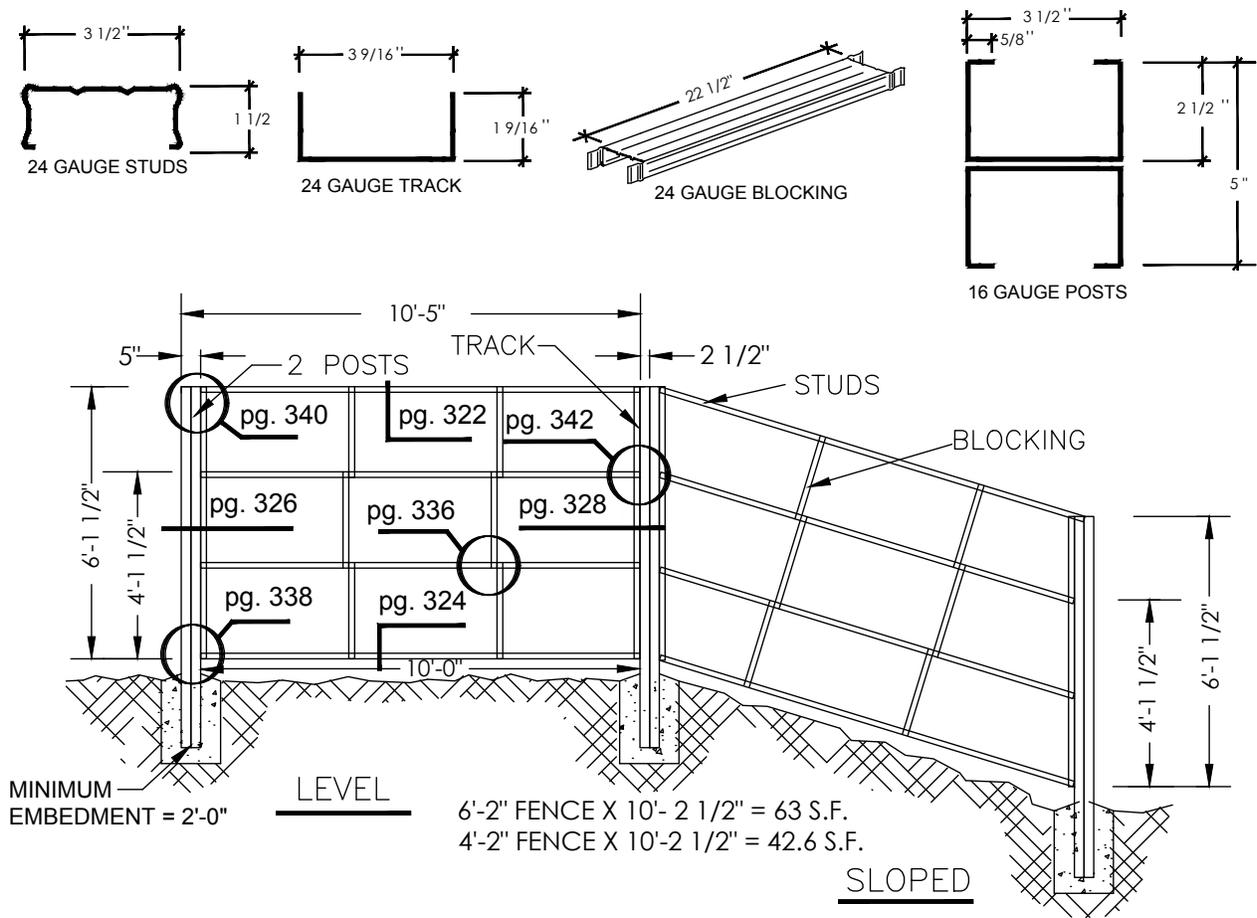
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PRIVACY FENCE

PRIVACY FENCE OVERVIEW 4'-2" & 6'-2" - TWO POST



STANDARD FENCE HEIGHTS ARE 6'-2" OR 4'-2".

BERRIDGE 16 GAUGE 2 1/2" x 3 1/2" GALVANIZED STEEL CHANNEL POSTS ARE SPACED PLUMB 10'-0" APART OR 10'-5" ON CENTER.

BERRIDGE 24 GAUGE SPACEFRAME STUDS RUN HORIZONTALLY SPACED 24" O.C.; VERTICAL BLOCKING ARE SPACED AT 40" FROM EACH END OF METAL STUDS.

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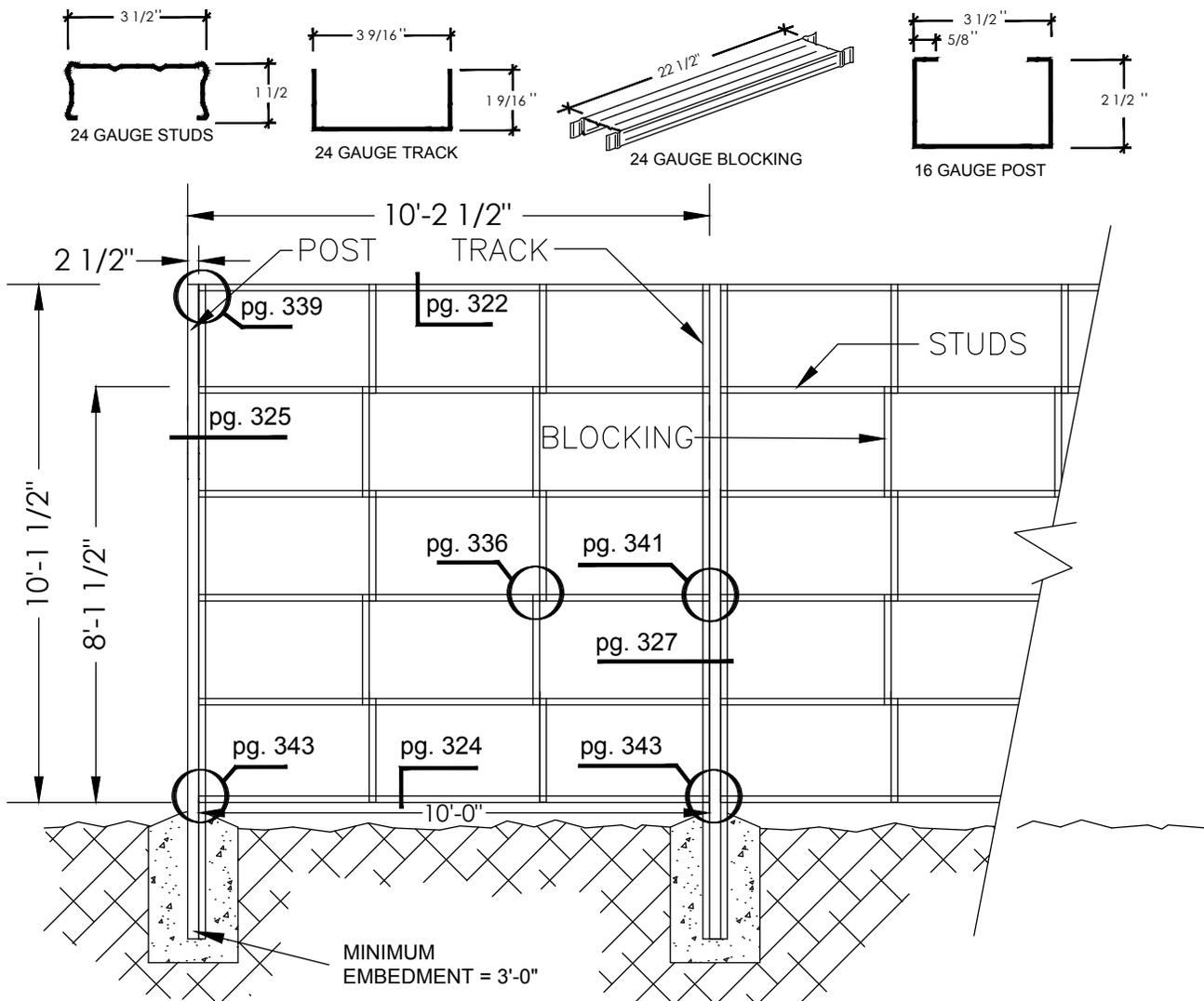
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PRIVACY FENCE

PRIVACY FENCE OVERVIEW 8'-2" & 10'-2" - ONE POST



8'-2" FENCE X 10'- 2 1/2" = 83.4 S.F.

10'-2" FENCE X 10'-2 1/2" = 104 S.F.

COMMERCIAL APPLICATIONS; FENCE HEIGHTS OF 8'-2" OR 10'-2".

BERRIDGE 16 GAUGE 2 1/2" x 3 1/2" GALVANIZED STEEL CHANNEL POSTS ARE SPACED PLUMB 10'-0" APART OR 10'-2 1/2" ON CENTER.

BERRIDGE 24 GAUGE SPACEFRAME STUDS RUN HORIZONTALLY SPACED 24" O.C.; VERTICAL BLOCKING ARE SPACED AT 40" FROM EACH END OF METAL STUDS.

BERRIDGE 24 TRACK, IS ATTACHED TO EACH SIDE OF THE POST, AND CONTINUOUS INTO CONCRETE FOUNDATION. TRACK TO START AT BOTTOM OF POST, DO NOT SPLICE TRACK IN CONCRETE FOUNDATION

BERRIDGE PREFINISHED ARCHITECTURAL PANELS 8'-2" OR 10'-2" LONG ARE APPLIED TO BOTH SIDES OF THE FENCE.

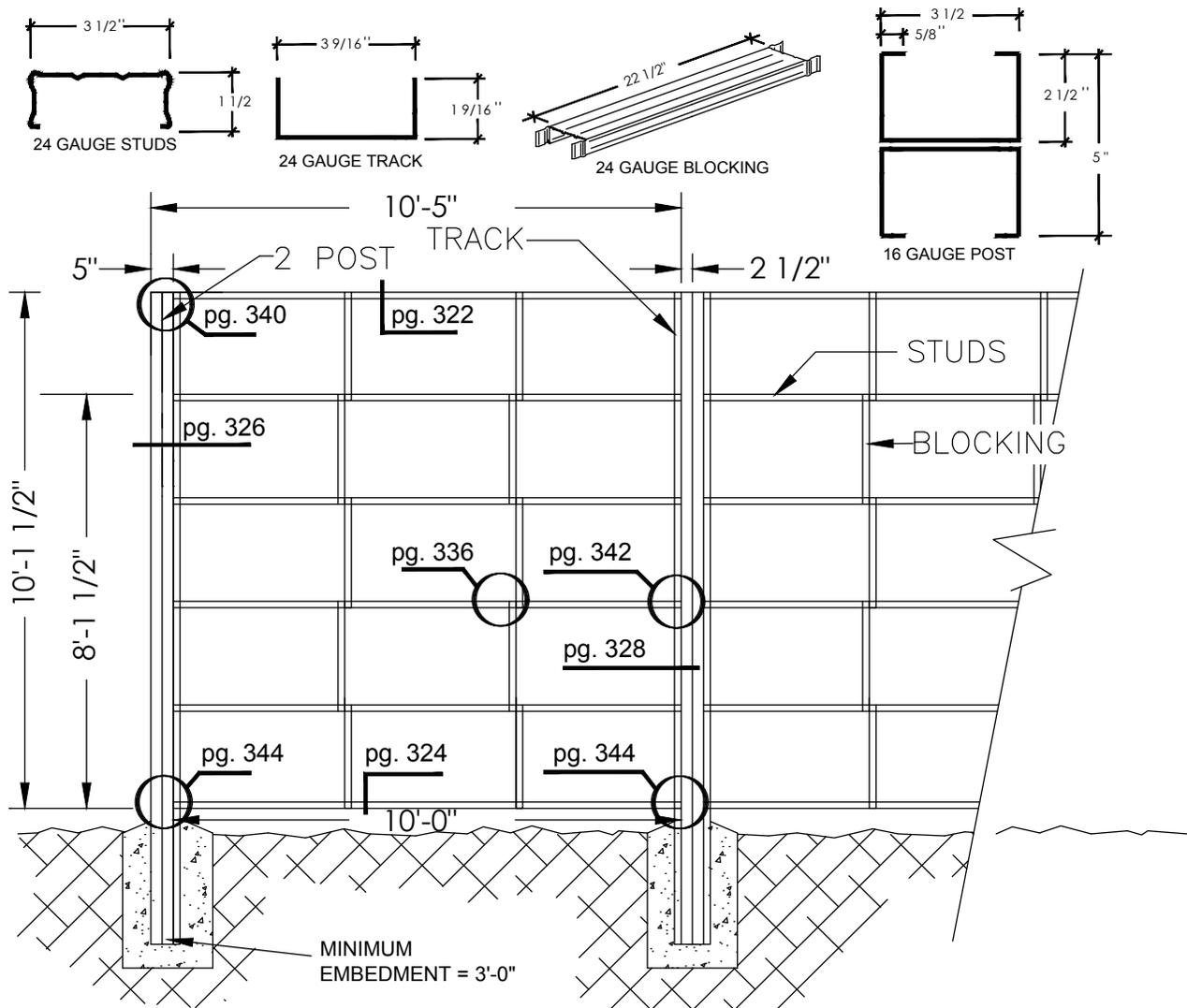
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PRIVACY FENCE

PRIVACY FENCE OVERVIEW 8'-2" & 10'-2" - TWO POST



$$8\text{'-}2\text{' FENCE} \times 10\text{'-}2\frac{1}{2}\text{'} = 83.4 \text{ S.F.}$$

$$10\text{'-}2\text{' FENCE} \times 10\text{'-}2\frac{1}{2}\text{'} = 104 \text{ S.F.}$$

COMMERCIAL APPLICATIONS; FENCE HEIGHTS OF 8'-2" OR 10'-2".

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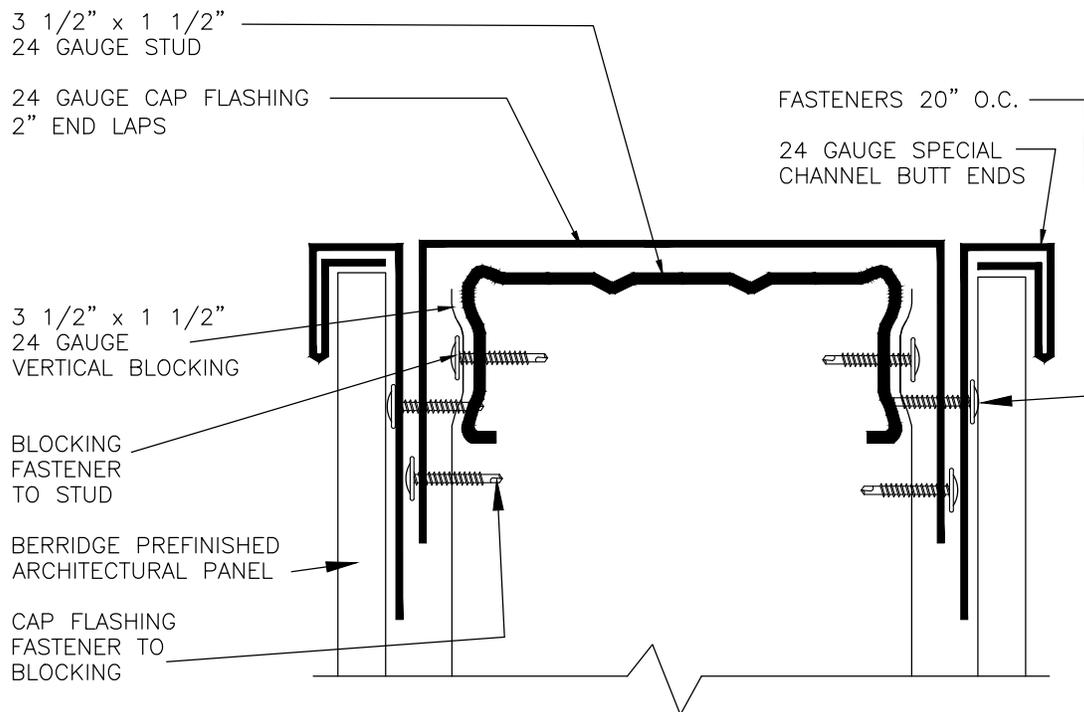
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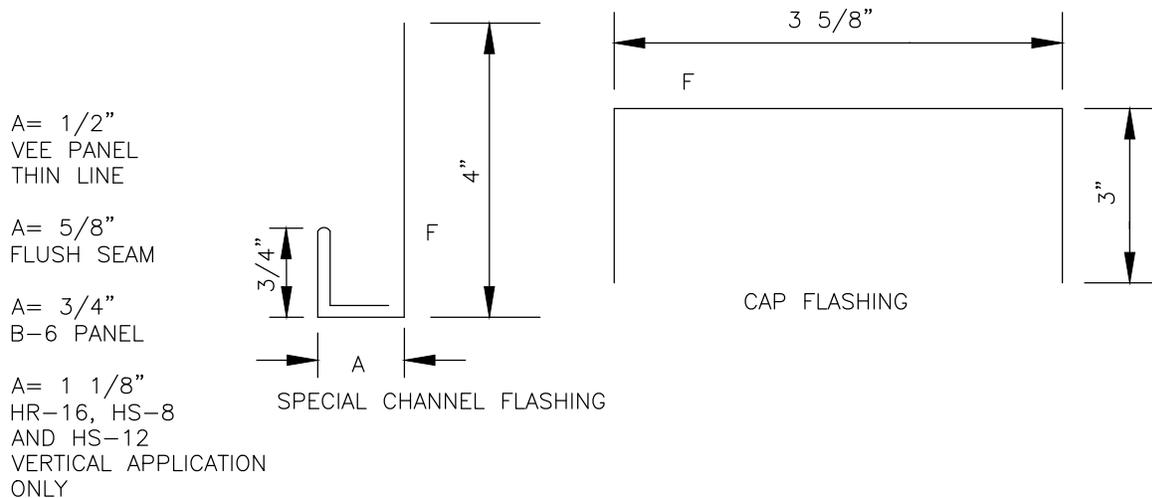
PRIVACY FENCE

FENCE TOP CAP



#8-18 x 3/4 DP2 W/ MODIFIED
TRUSS HEAD BY TRIANGLE
FASTENER CO. OR EQUAL
TYPICAL ALL FASTENERS

F = FINISH SIDE

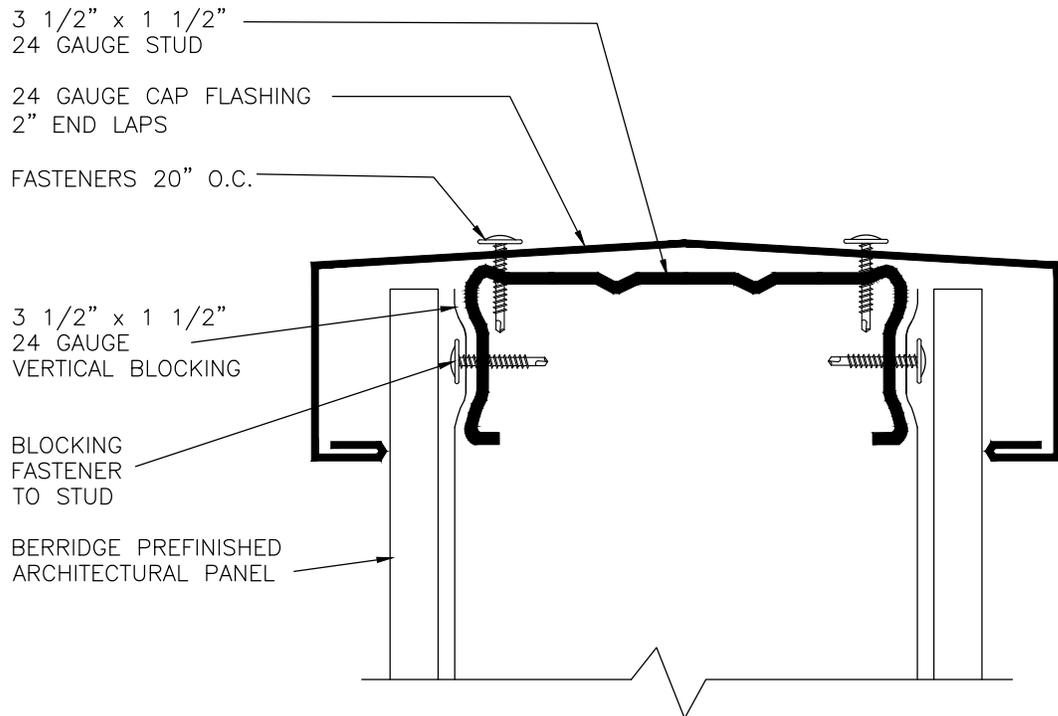


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FENCE TOP CAP ALTERNATE



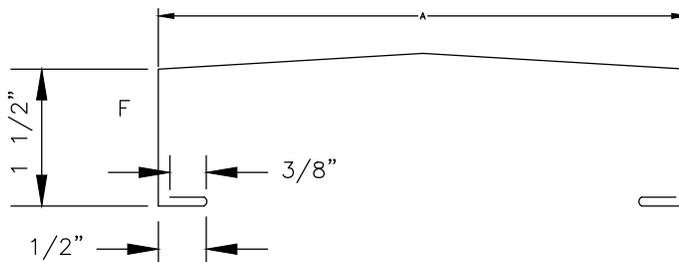
#8-18 x 3/4 DP2 W/ MODIFIED TRUSS HEAD BY TRIANGLE FASTENER CO. OR EQUAL
TYPICAL ALL FASTENERS

F = FINISH SIDE

A= 5 1/2"
VEE PANEL
THIN LINE
FLUSH SEAM

A= 6"
B-6 PANEL

A= 6 1/2"
HR-16, HS-8
AND HS-12
VERTICAL APPLICATION
ONLY



CAP FLASHING

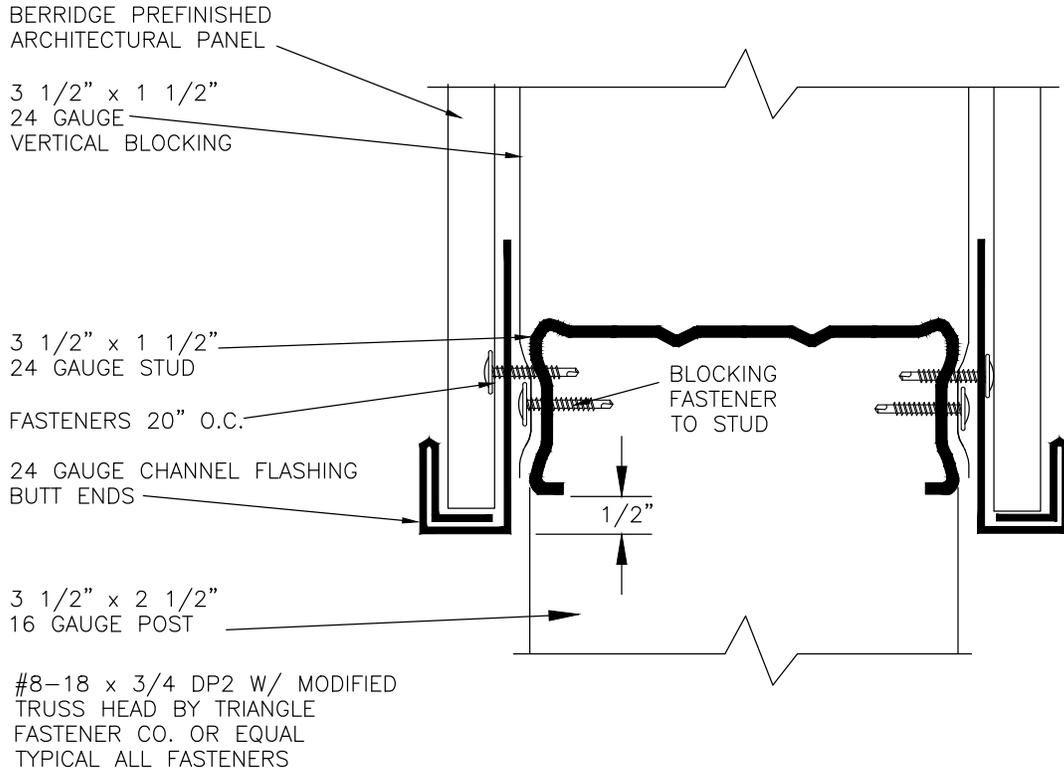
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PRIVACY FENCE

FENCE SILL



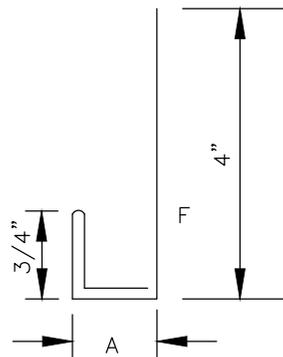
F = FINISH SIDE

A = 1/2"
 VEE PANEL
 THIN LINE

A = 5/8"
 FLUSH SEAM

A = 3/4"
 B-6 PANEL

A = 1 1/8"
 HR-16, HS-8
 AND HS-12
 VERTICAL APPLICATION
 ONLY



CHANNEL FLASHING

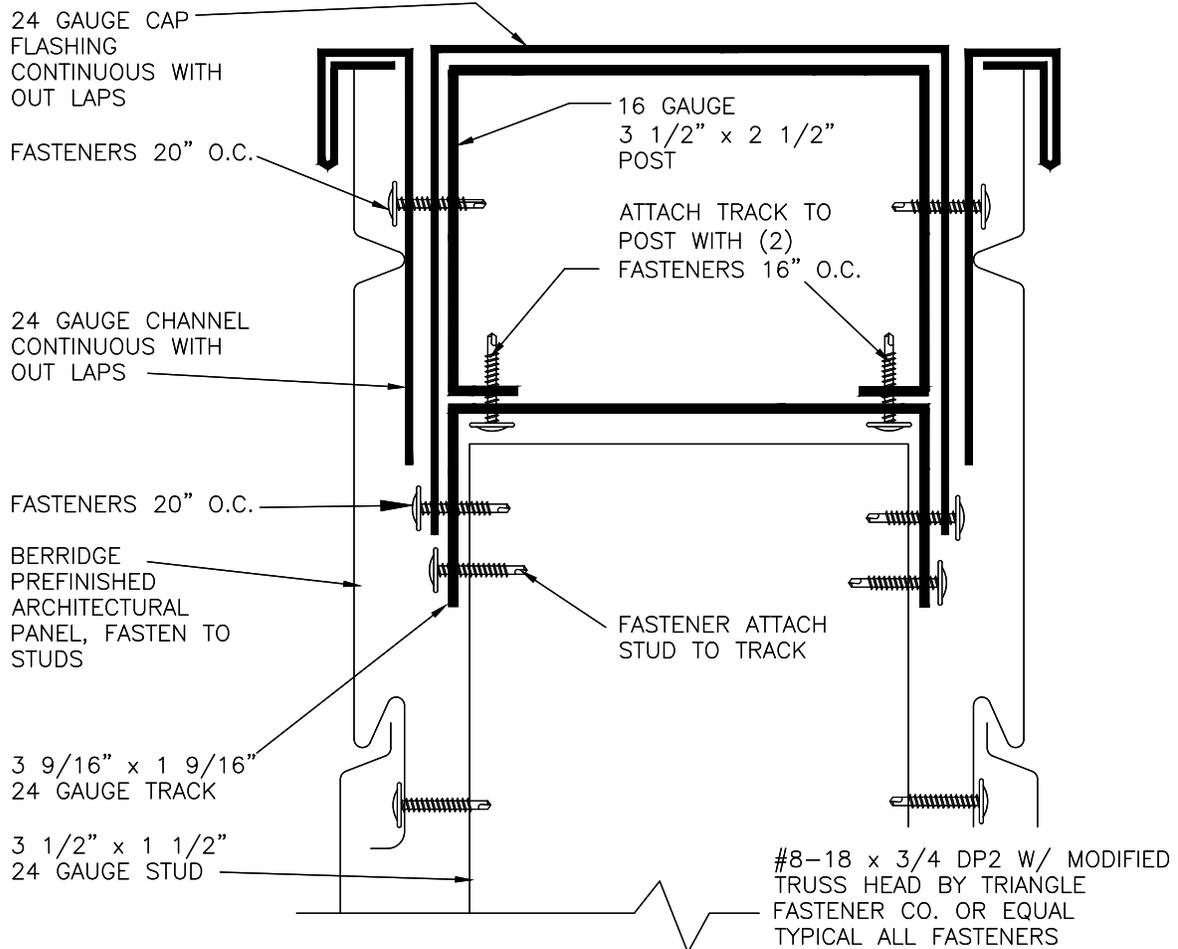
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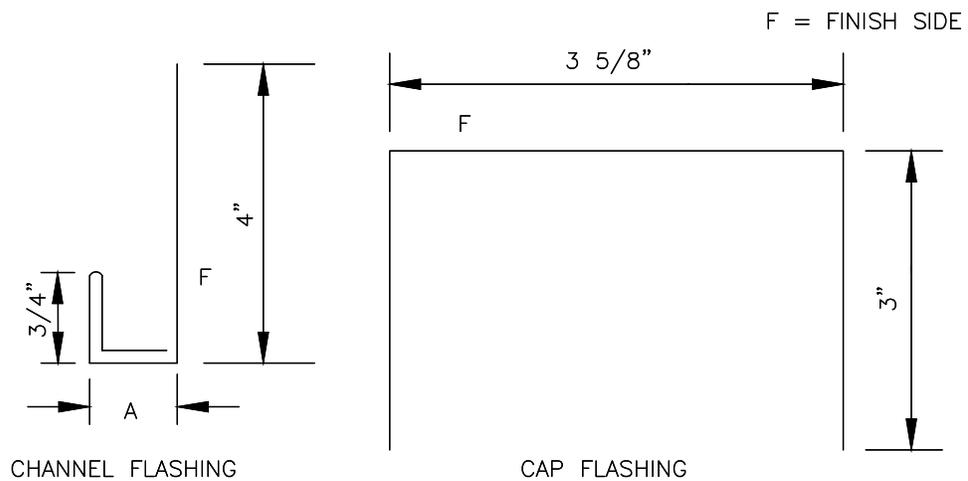
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PRIVACY FENCE

FENCE END CAP - ONE POST



- A= 1/2" VEE PANEL THIN LINE
- A= 5/8" FLUSH SEAM
- A= 3/4" B-6 PANEL
- A= 1 1/8" HR-16, HS-8 AND HS-12 VERTICAL APPLICATION ONLY



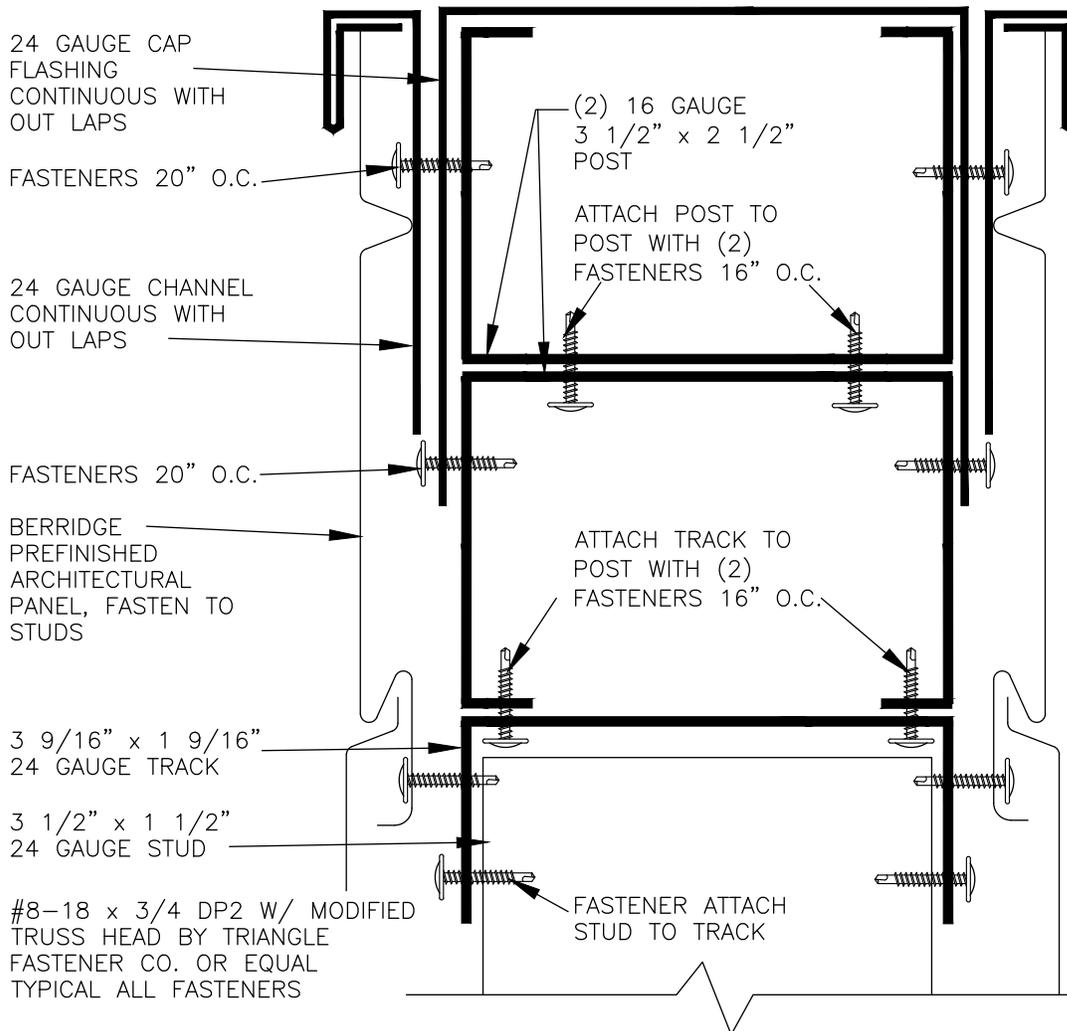
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PRIVACY FENCE

FENCE END CAP - TWO POST

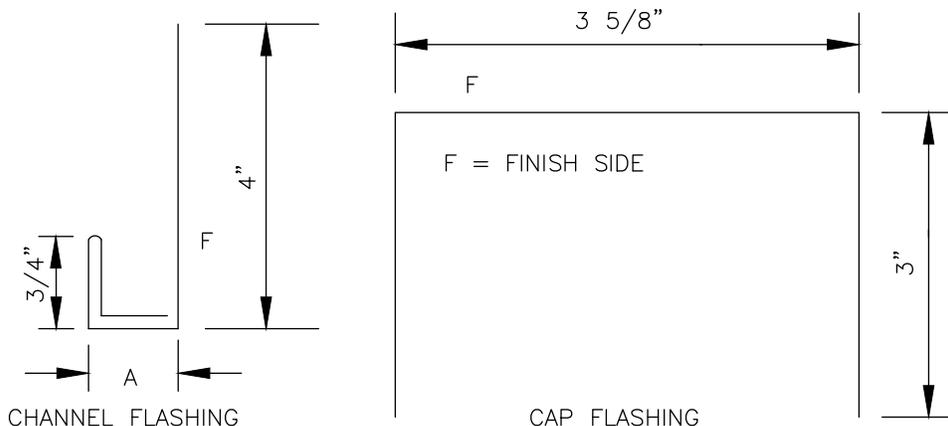


A= 1/2"
VEE PANEL
THIN LINE

A= 5/8"
FLUSH SEAM

A= 3/4"
B-6 PANEL

A= 1 1/8"
HR-16, HS-8
AND HS-12
VERTICAL
APPLICATION
ONLY

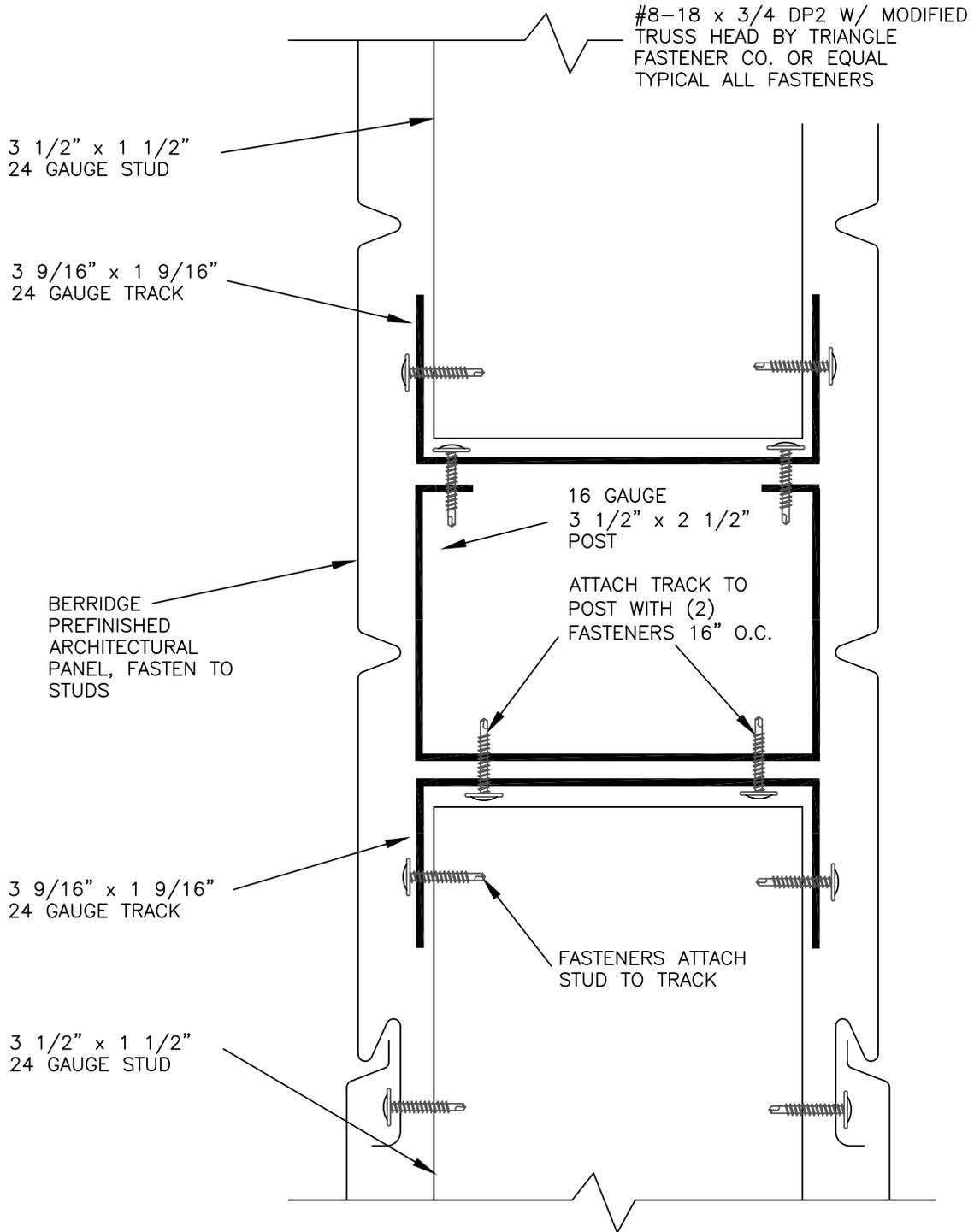


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FENCE CENTER POST - ONE POST



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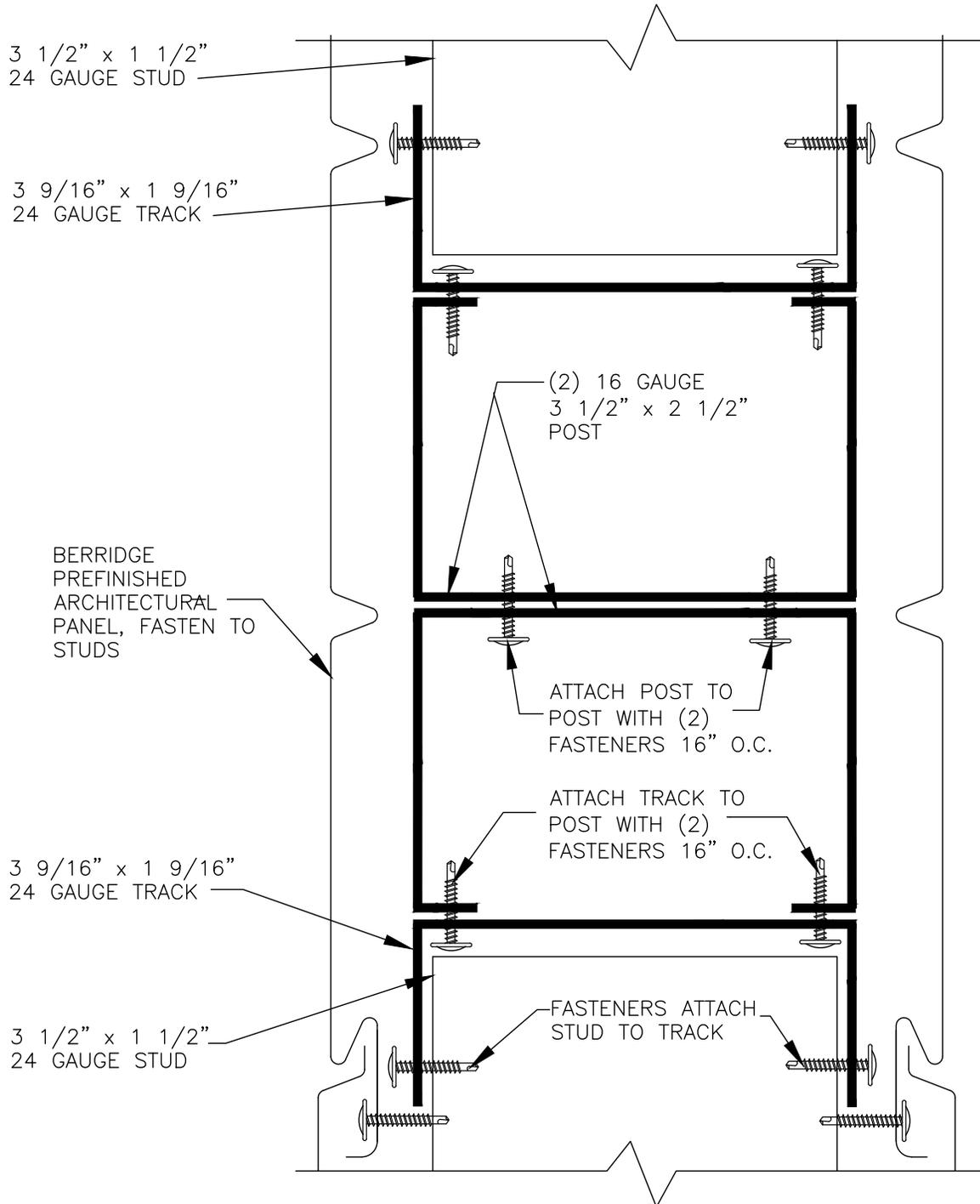
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PRIVACY FENCE

FENCE CENTER POST - TWO POST

#8-18 x 3/4 DP2 W/ MODIFIED TRUSS HEAD BY TRIANGLE FASTENER CO. OR EQUAL TYPICAL ALL FASTENERS



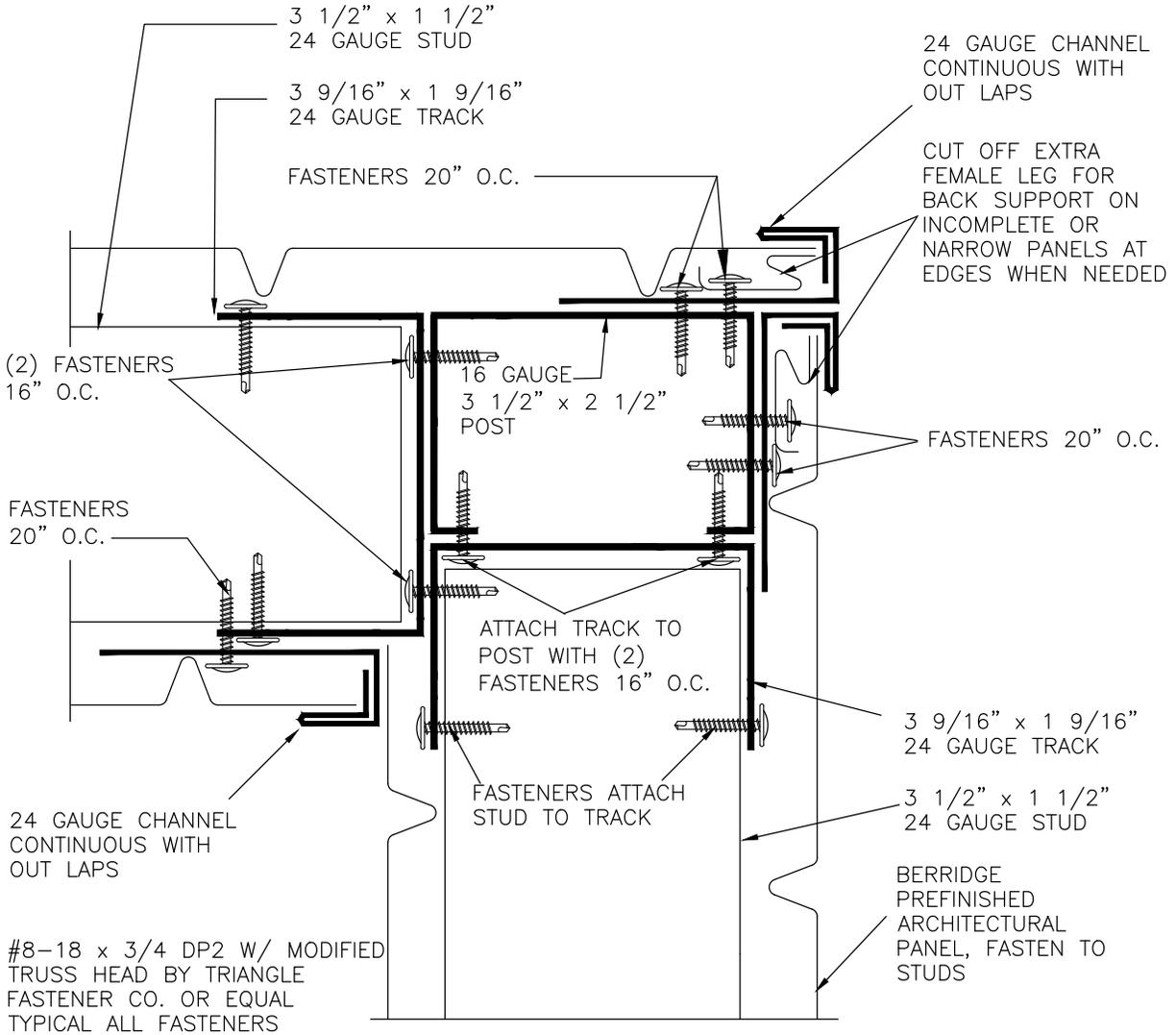
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PRIVACY FENCE

INSIDE/OUTSIDE CORNER - ONE POST

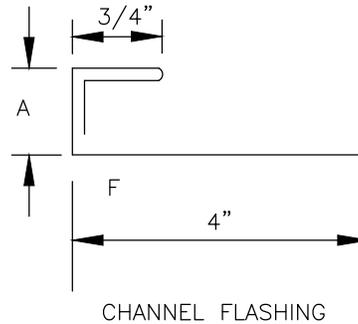


A = 1/2"
VEE PANEL
THIN LINE

A = 5/8"
FLUSH SEAM

A = 3/4"
B-6 PANEL

A = 1 1/8"
HR-16, HS-8
AND HS-12
VERTICAL APPLICATION
ONLY



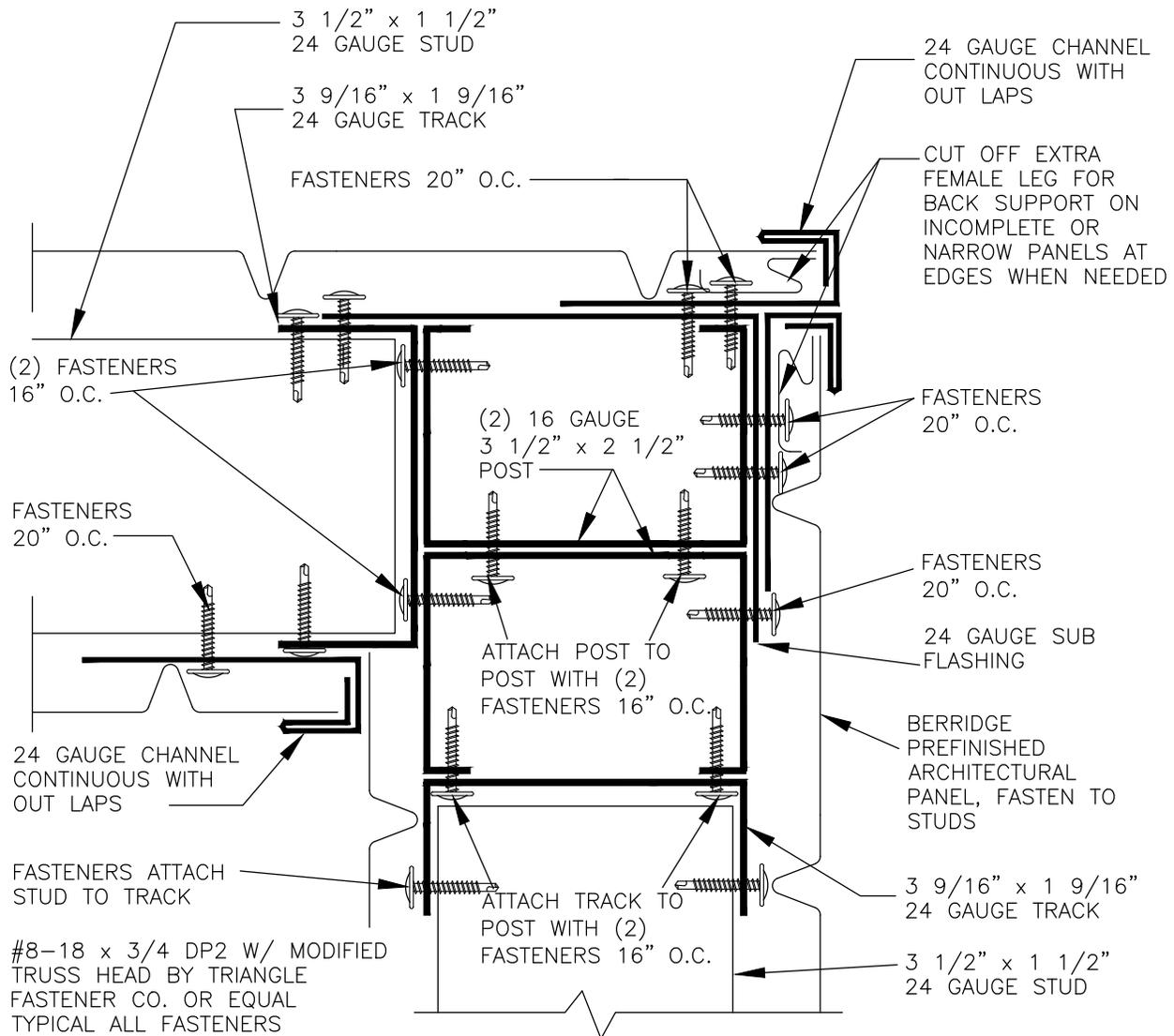
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PRIVACY FENCE

INSIDE/OUTSIDE CORNER - TWO POST

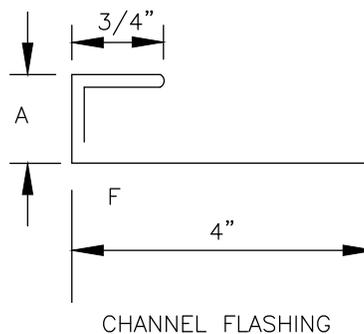


A= 1/2"
VEE PANEL
THIN LINE

A= 5/8"
FLUSH SEAM

A= 3/4"
B-6 PANEL

A= 1 1/8"
HR-16, HS-8
AND HS-12
VERTICAL APPLICATION
ONLY



F = FINISH SIDE

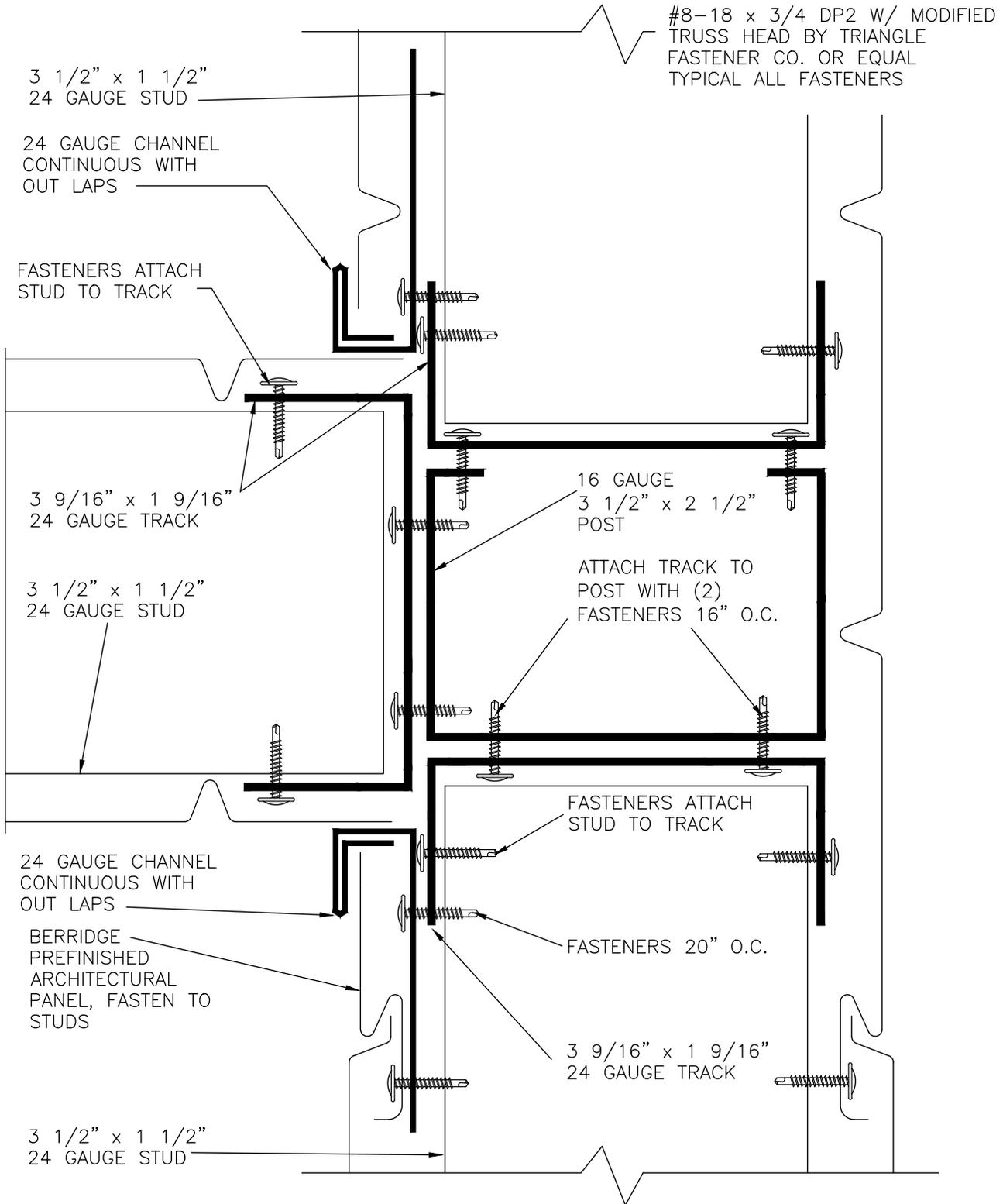
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PRIVACY FENCE

FENCE T-CORNER AT POST - ONE POST



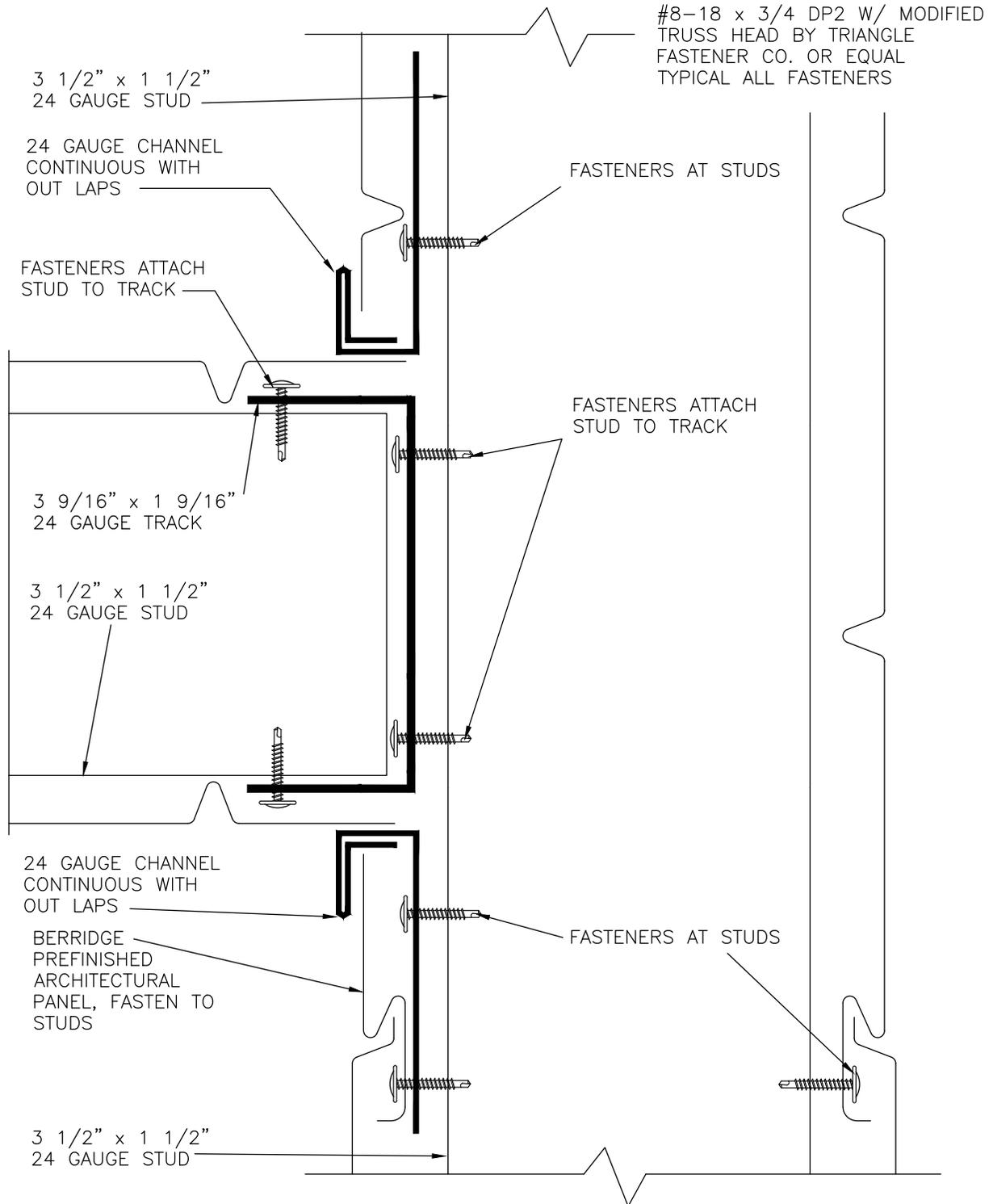
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PRIVACY FENCE

FENCE T-CORNER AT STUD



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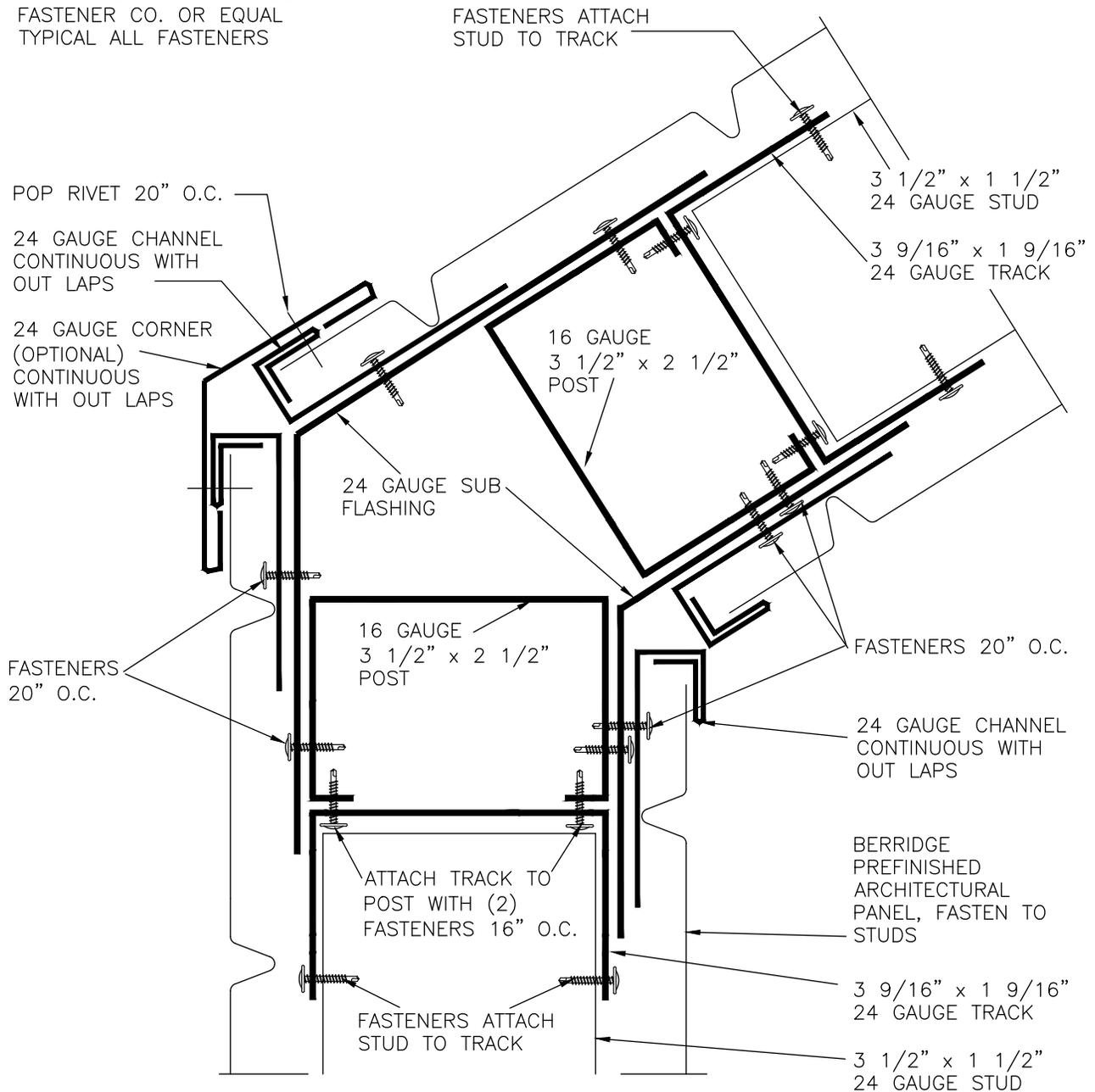
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PRIVACY FENCE

INSIDE/OUTSIDE CORNER NON - 90° CORNER - ONE POST

#8-18 x 3/4 DP2 W/ MODIFIED TRUSS HEAD BY TRIANGLE FASTENER CO. OR EQUAL TYPICAL ALL FASTENERS



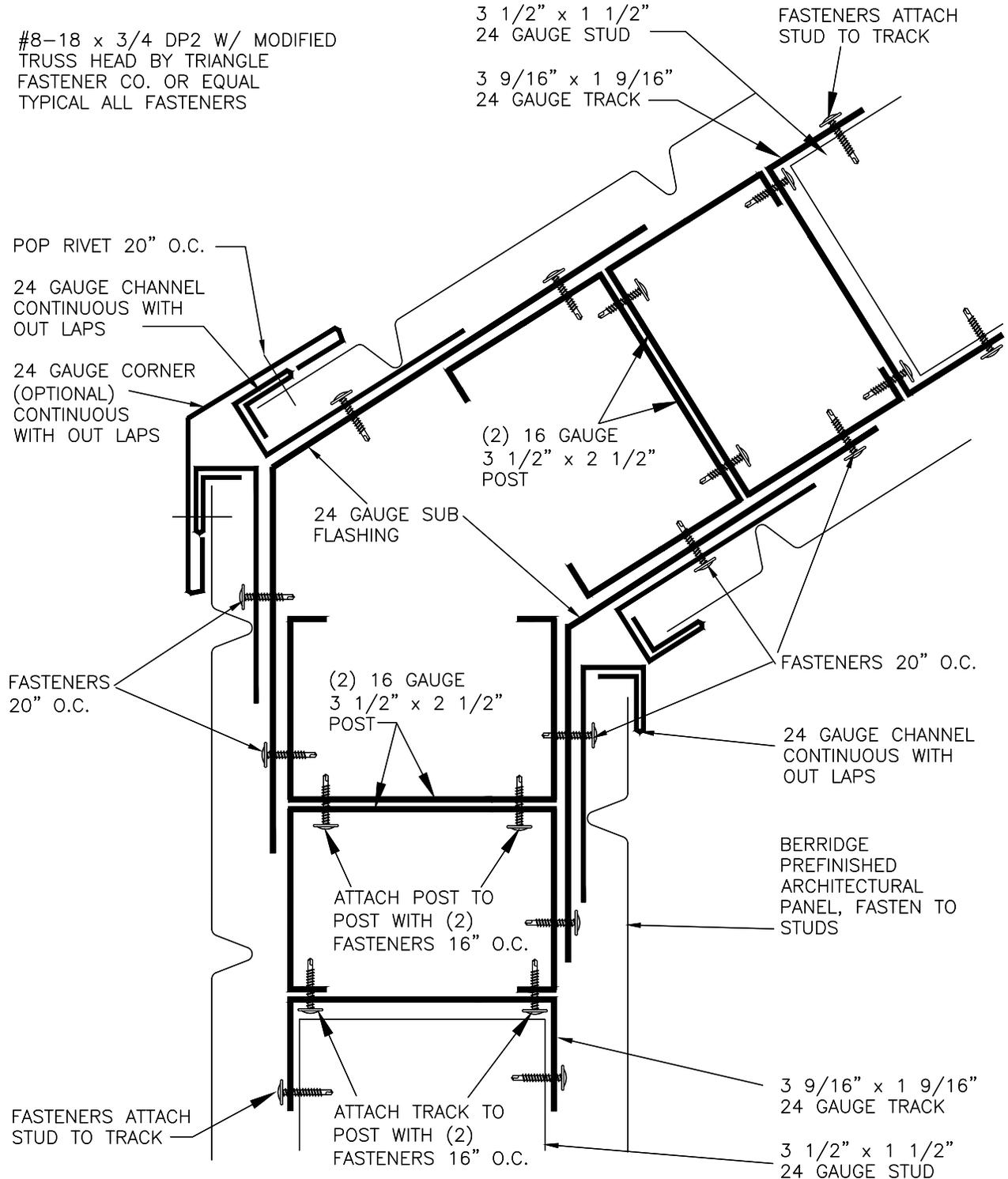
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PRIVACY FENCE

INSIDE/OUTSIDE CORNER NON - 90° CORNER - TWO POST



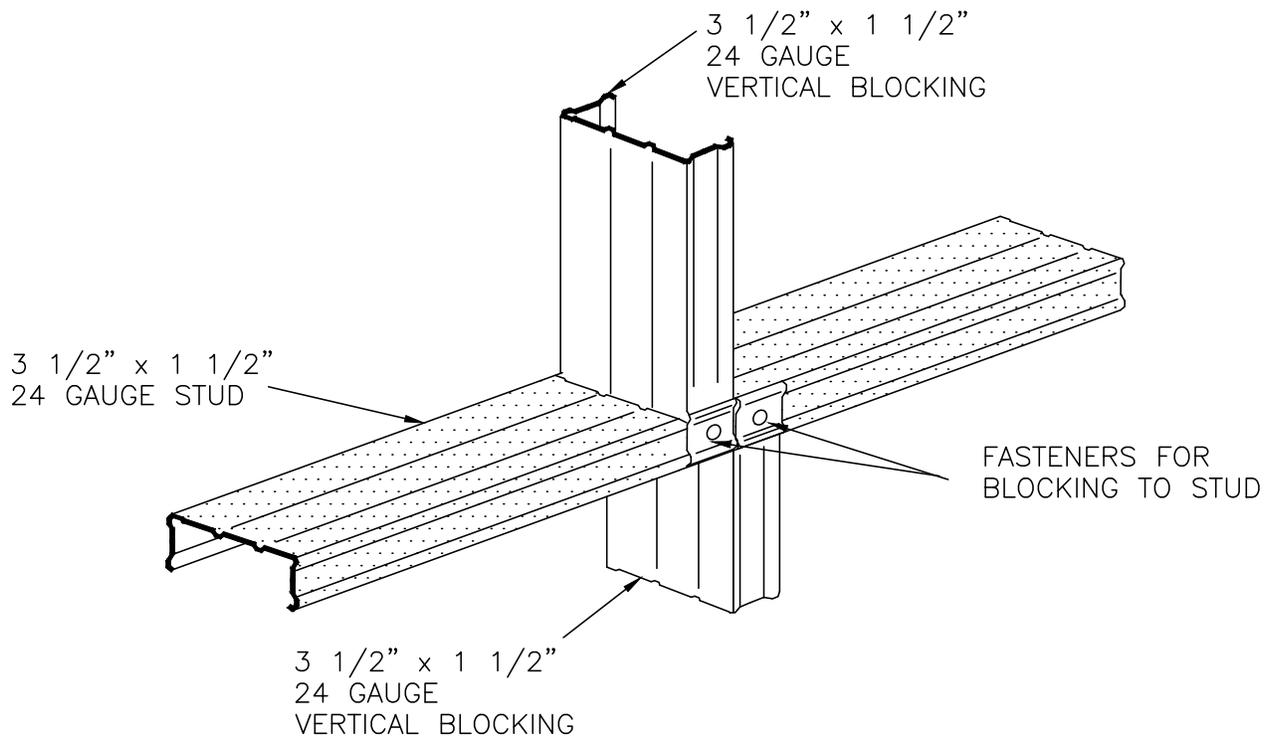
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PRIVACY FENCE

BLOCKING TO STUD DETAIL



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FASTENER CO. OR EQUAL
TYPICAL ALL FASTENERS

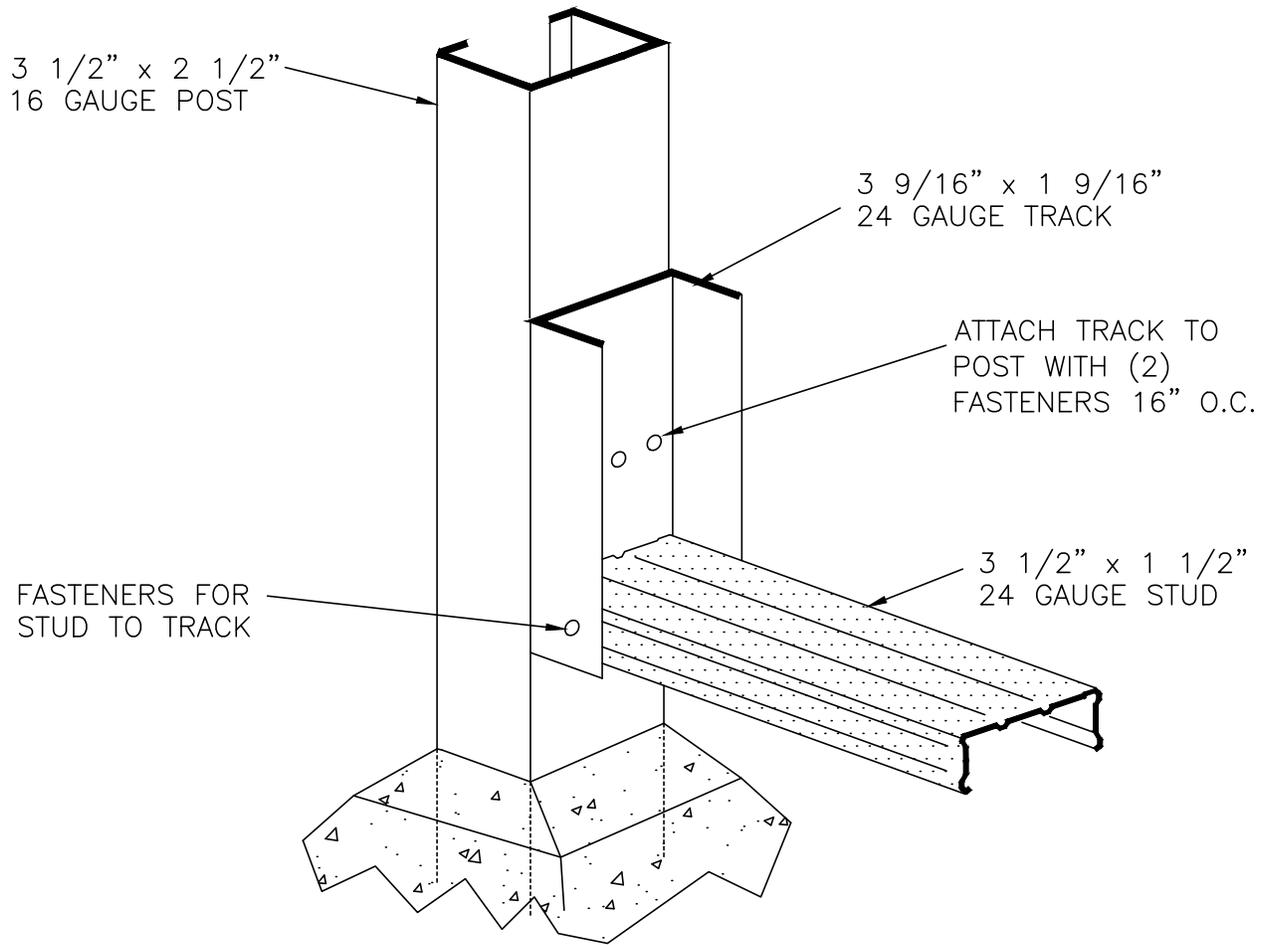
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PRIVACY FENCE

TRACK AND STUD AT LOW POST 4'-2" & 6'-2" - ONE POST



#8-18 x 3/4 DP2 W/ MODIFIED
TRUSS HEAD BY TRIANGLE
FASTENER CO. OR EQUAL
TYPICAL ALL FASTENERS

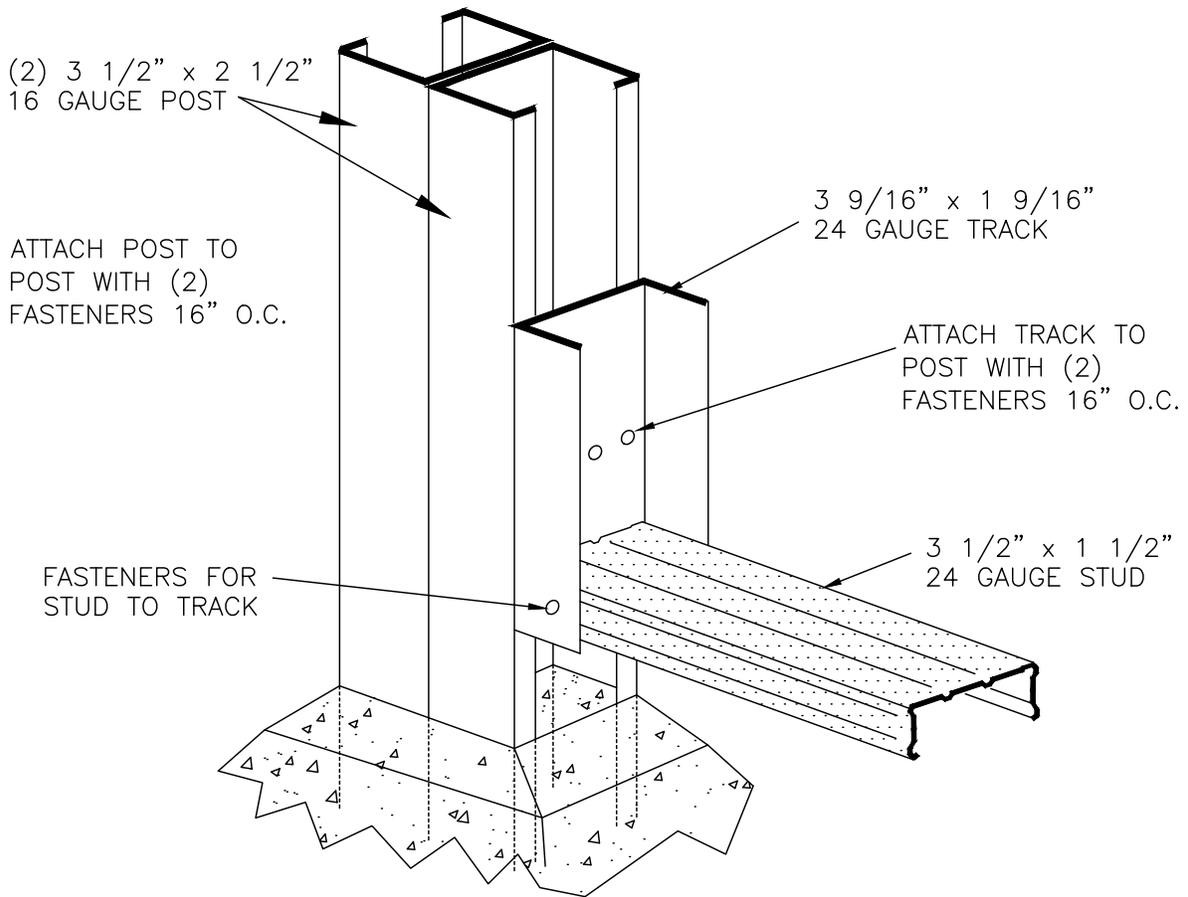
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TRUSS HEAD BY TRIANGLE
FASTENER CO. OR EQUAL
TYPICAL ALL FASTENERS

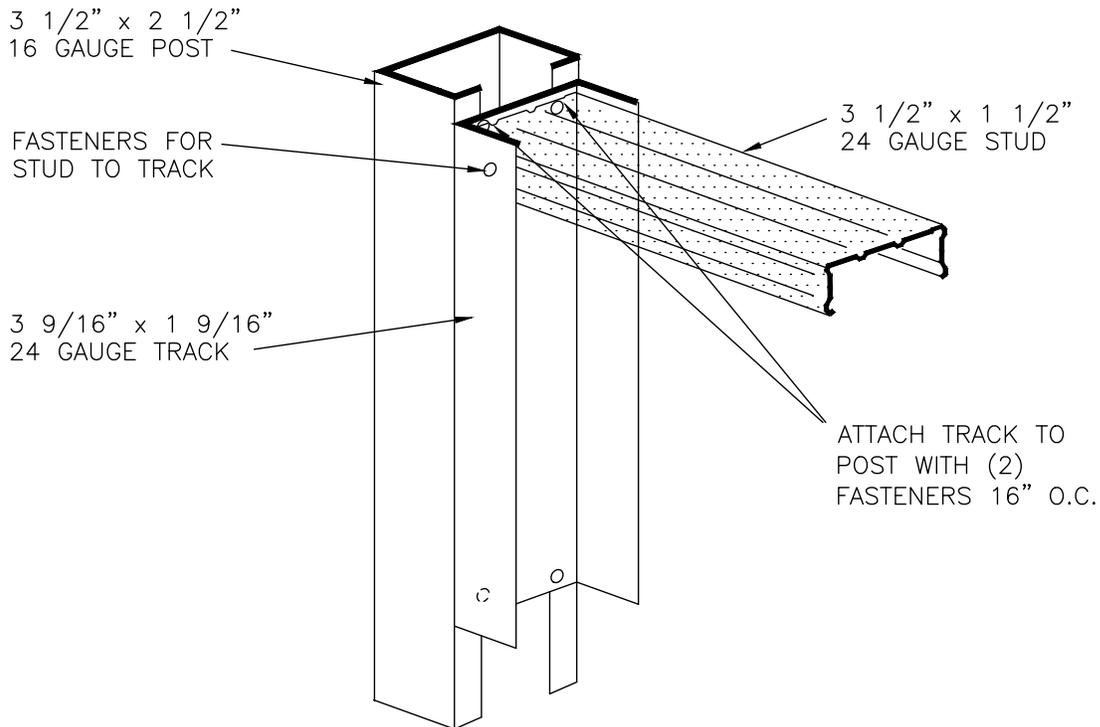
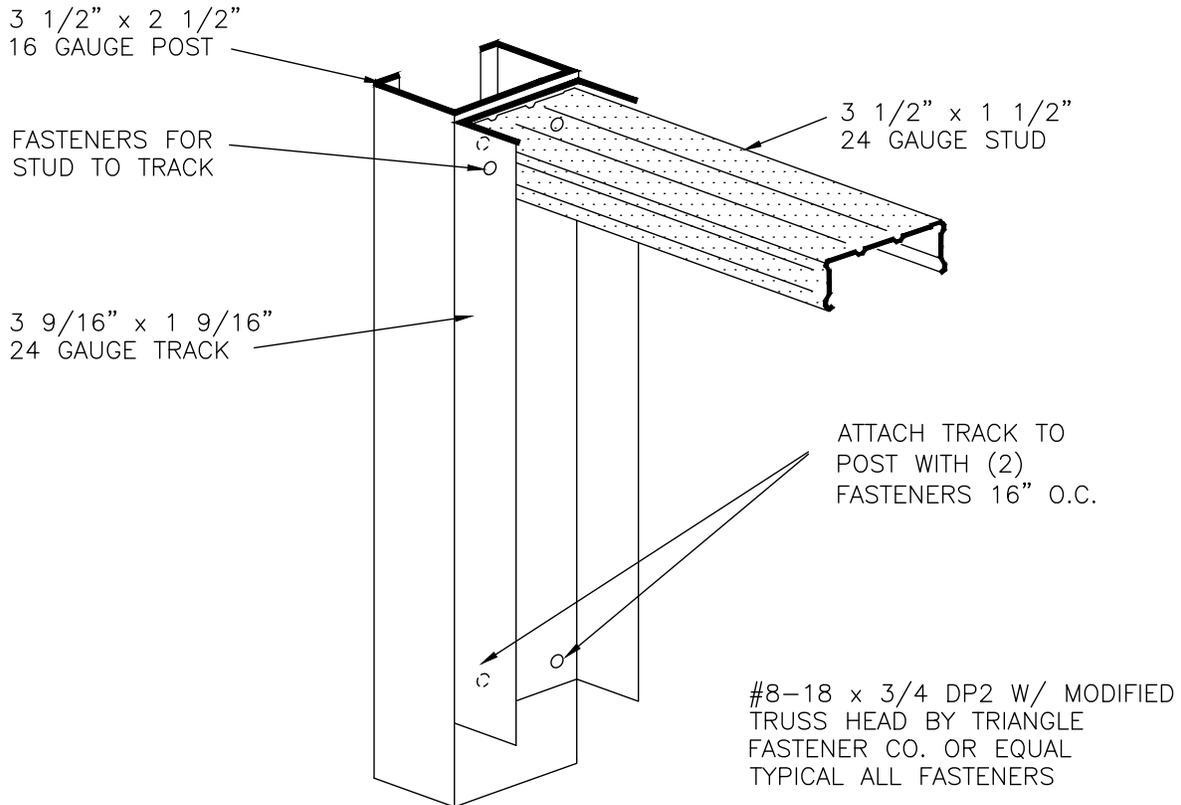
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PRIVACY FENCE

TRACK AND STUD AT HIGH POST - ONE POST



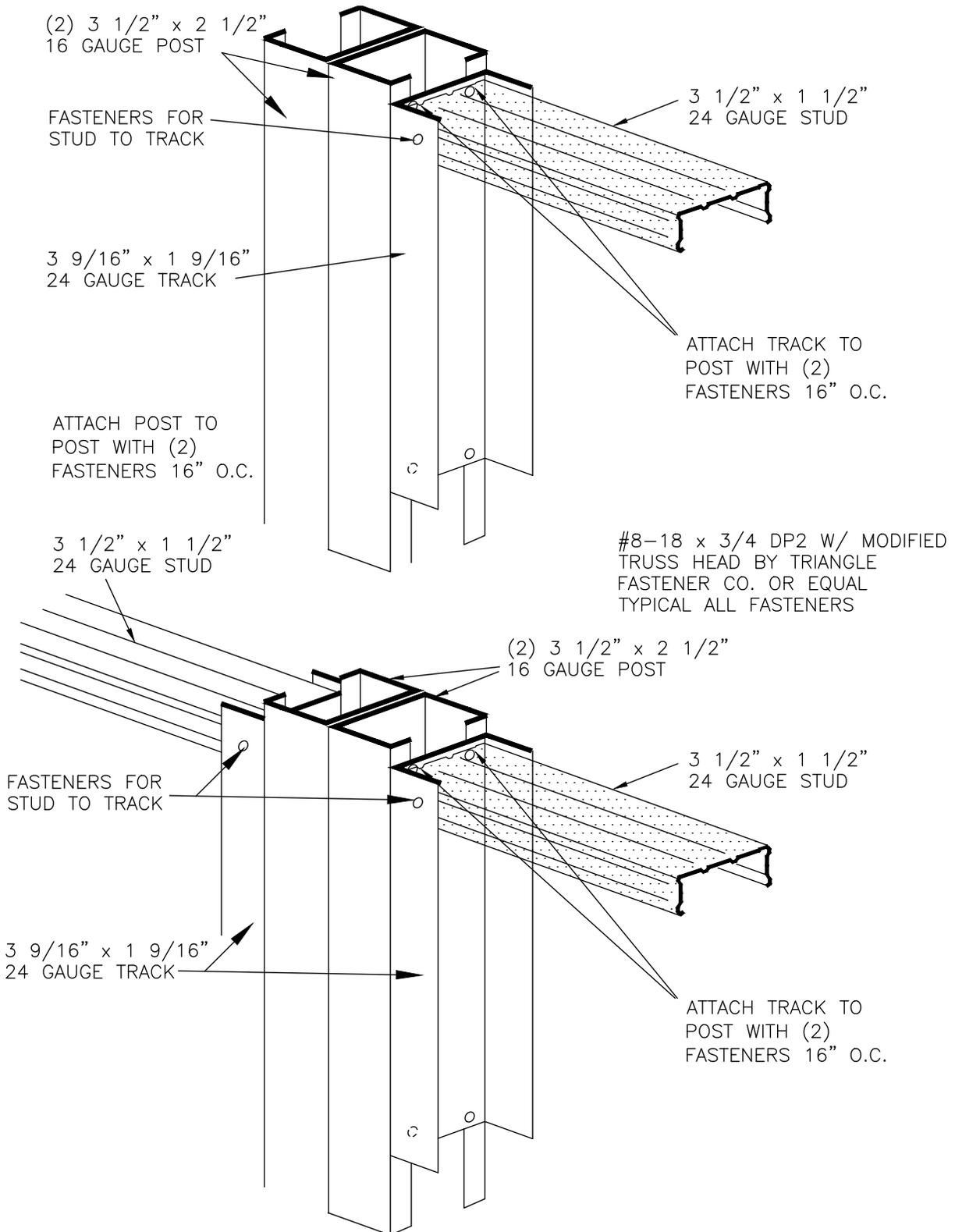
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PRIVACY FENCE

TRACK AND STUD AT HIGH POST - TWO POST

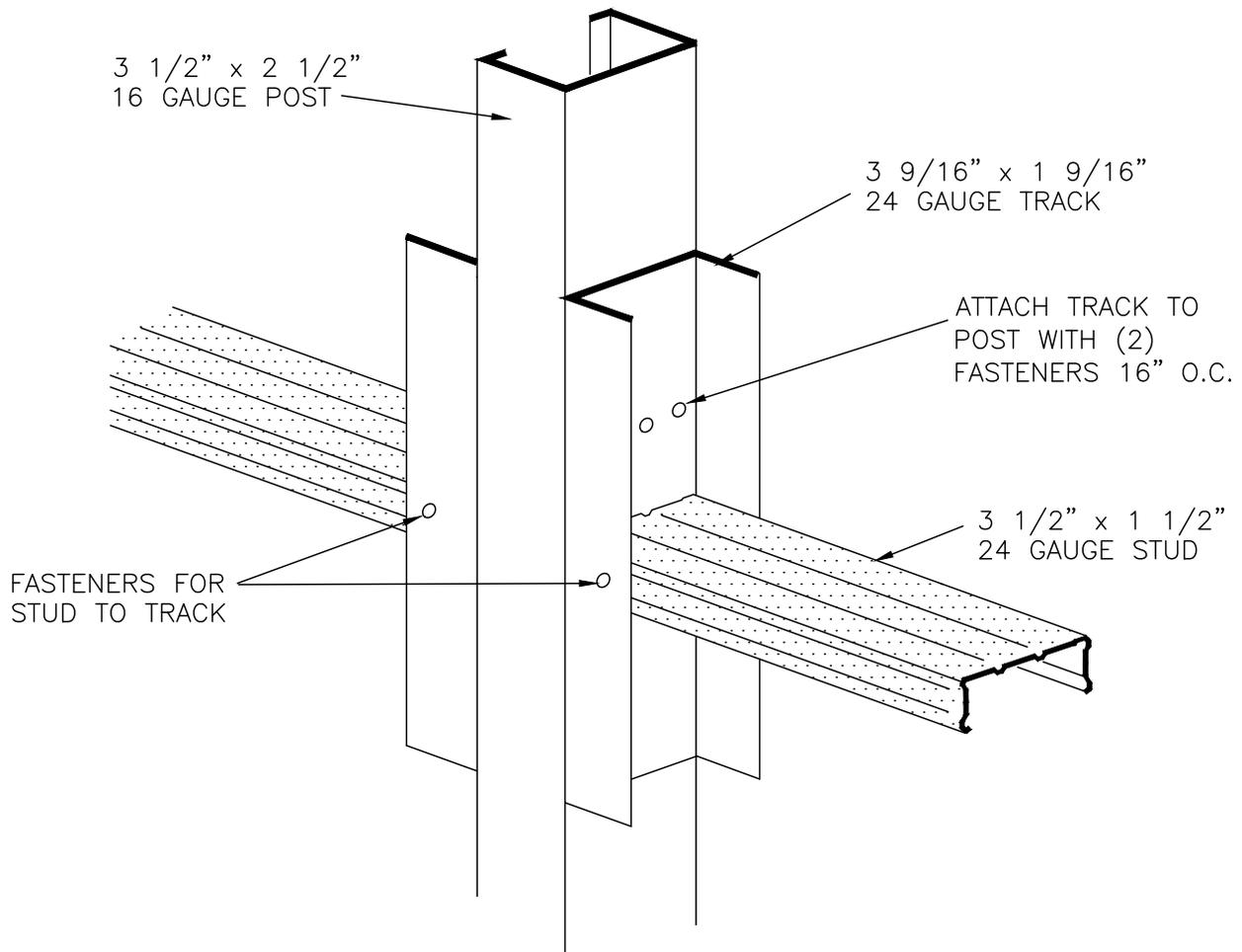


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TRACK AND STUD AT POST MID-SPAN - ONE POST



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TRUSS HEAD BY TRIANGLE
FASTENER CO. OR EQUAL
TYPICAL ALL FASTENERS

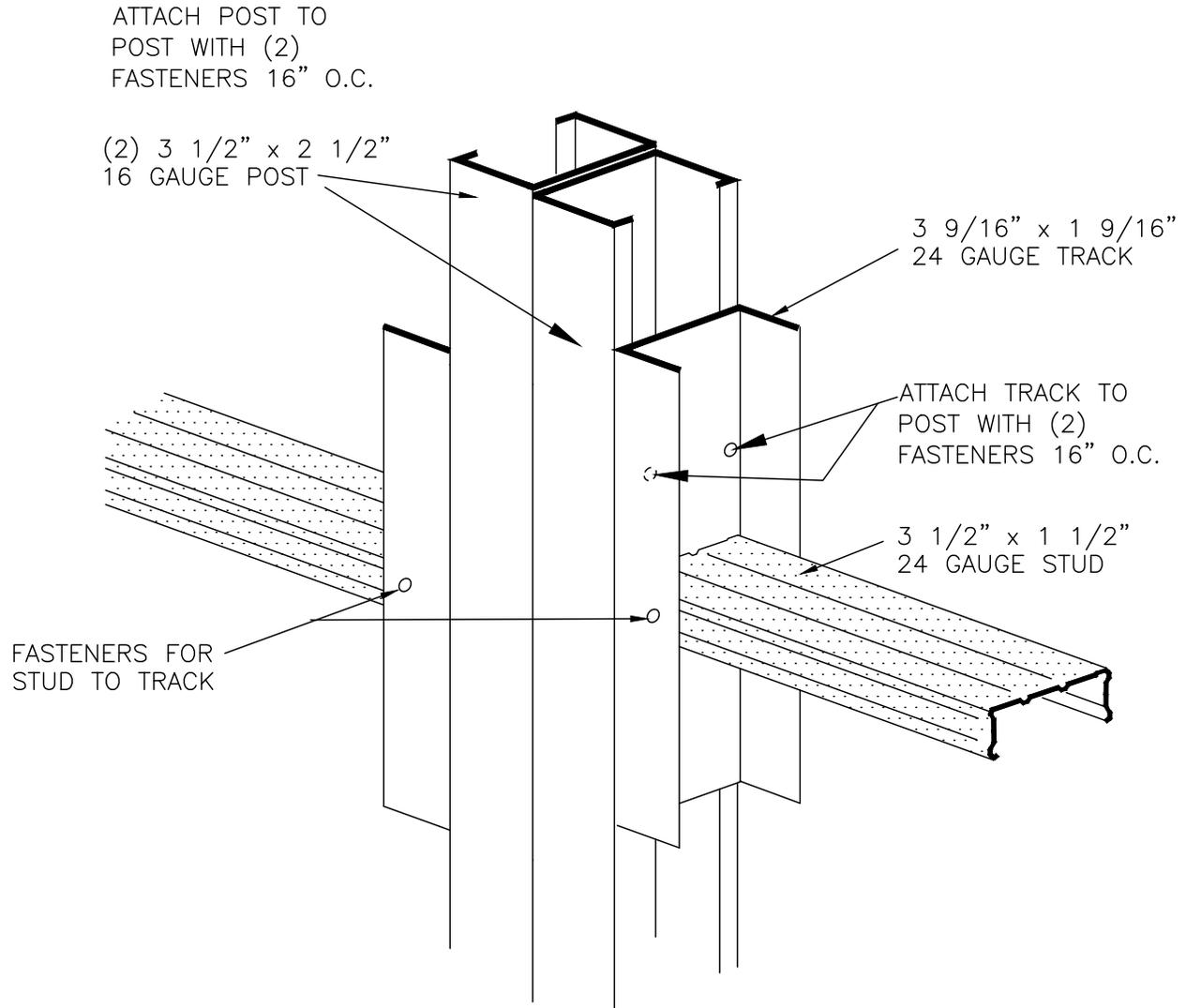
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PRIVACY FENCE

TRACK AND STUD AT POST MID-SPAN - TWO POST



#8-18 x 3/4 DP2 W/ MODIFIED
TRUSS HEAD BY TRIANGLE
FASTENER CO. OR EQUAL
TYPICAL ALL FASTENERS

BERRIDGE MANUFACTURING COMPANY

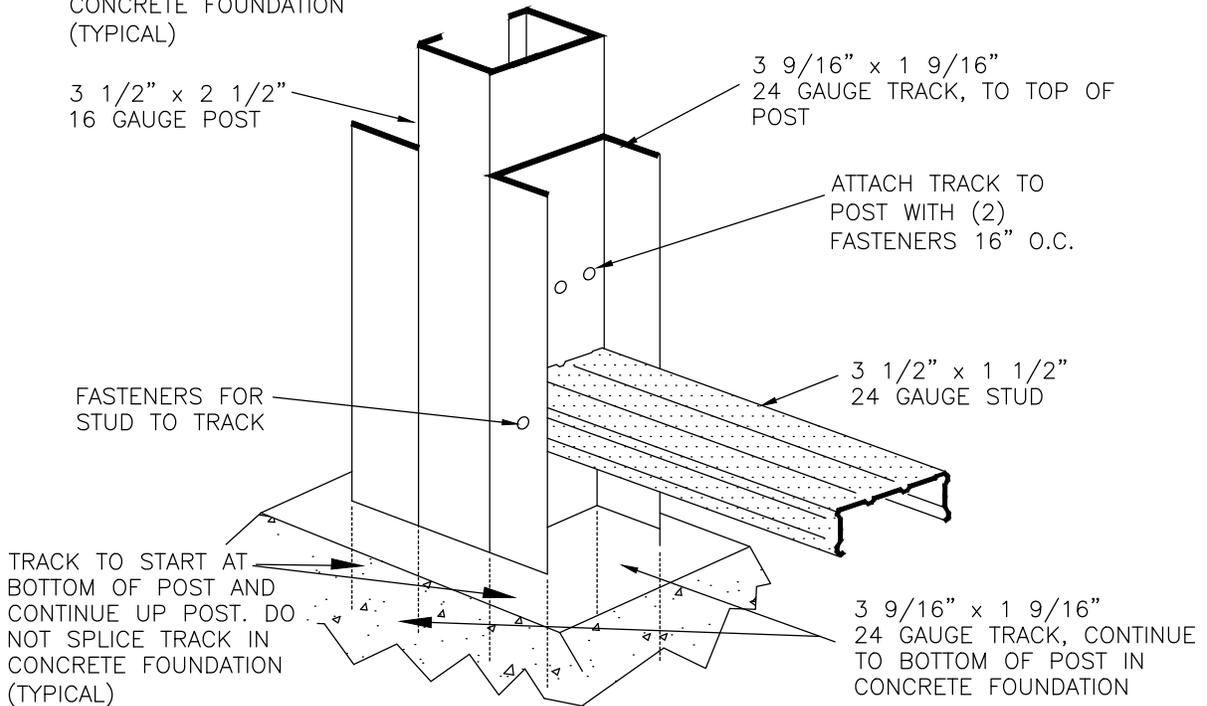
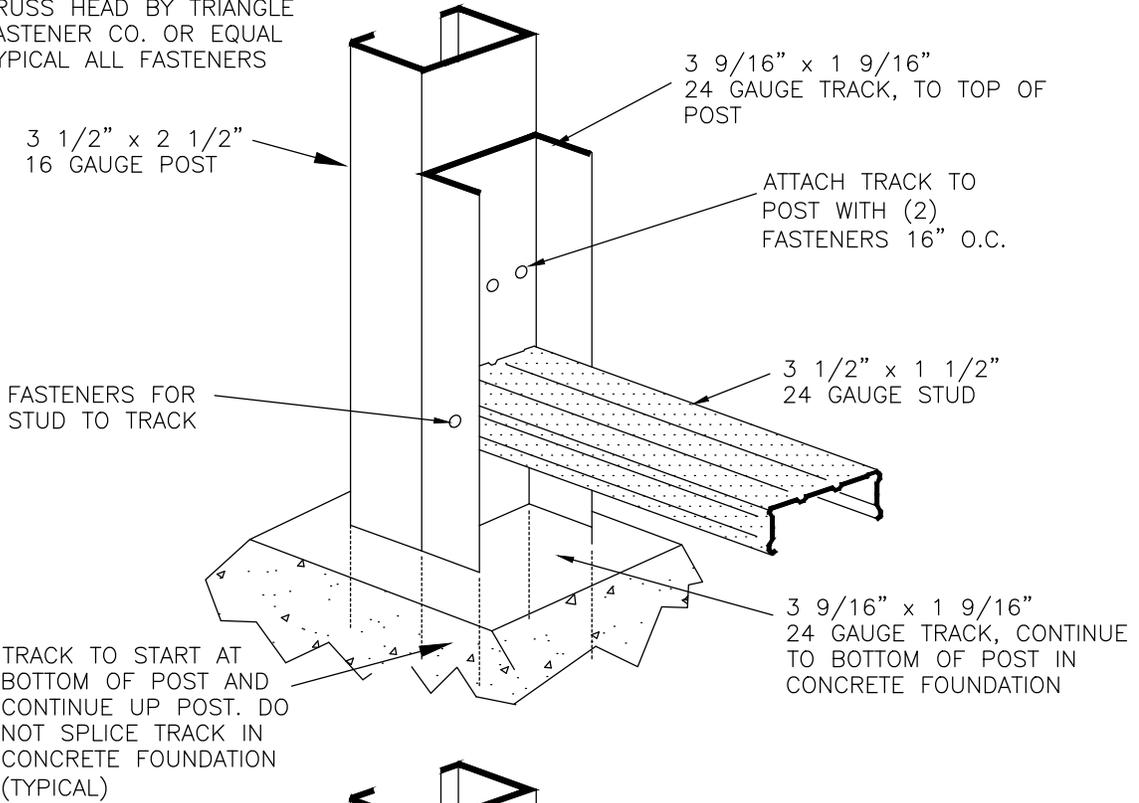
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PRIVACY FENCE

TRACK AND STUD AT POST LOW 8'-2" & 10'-2" - ONE POST

#8-18 x 3/4 DP2 W/ MODIFIED TRUSS HEAD BY TRIANGLE FASTENER CO. OR EQUAL TYPICAL ALL FASTENERS



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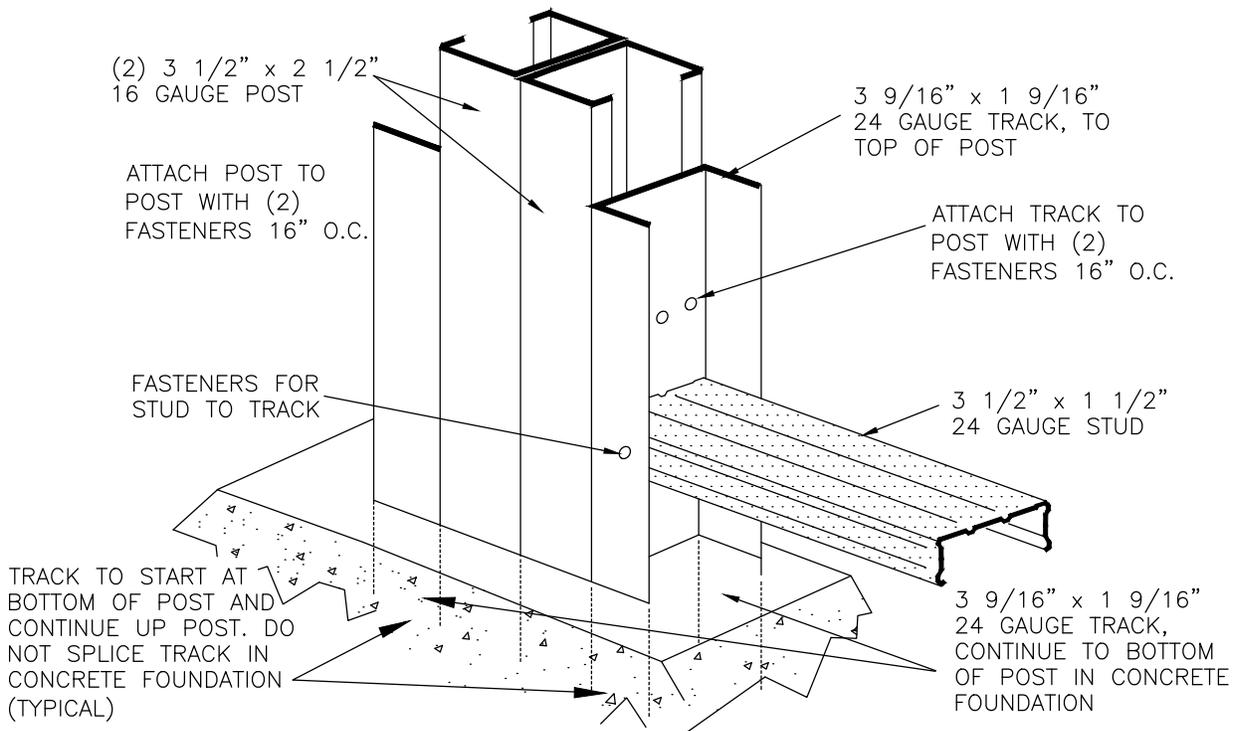
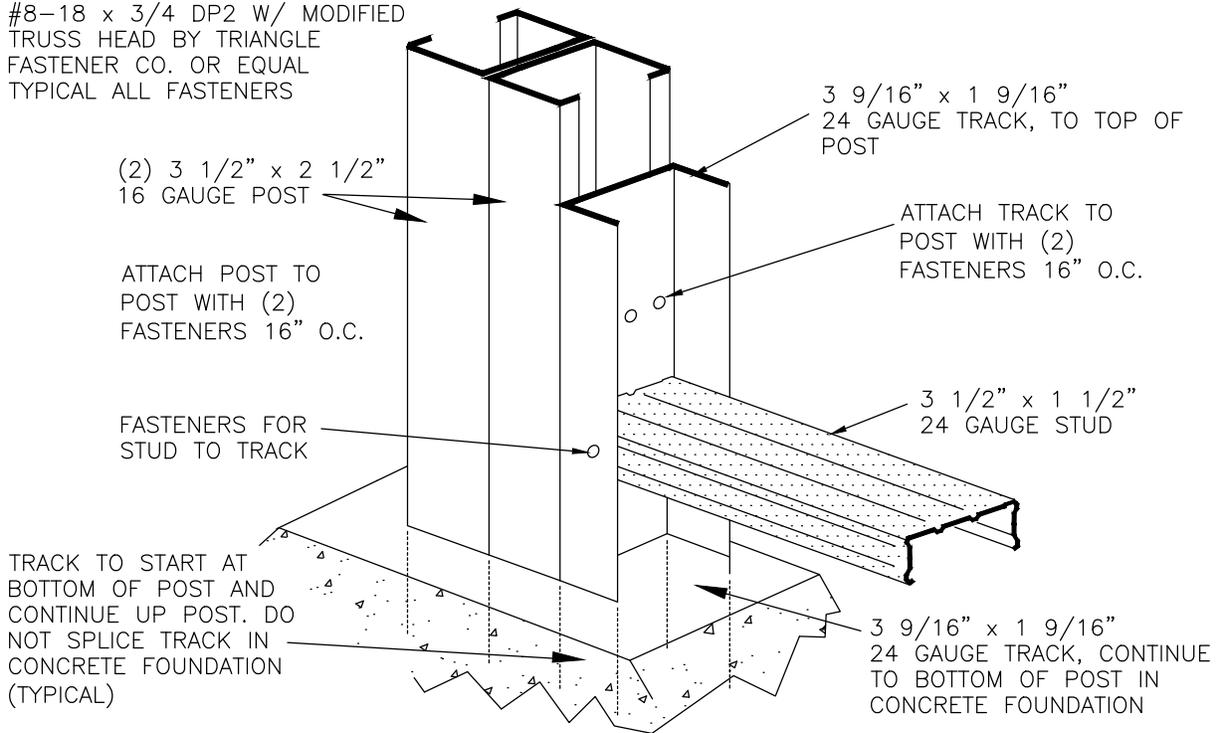
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PRIVACY FENCE

TRACK AND STUD AT POST LOW 8'-2" & 10'-2" - TWO POST

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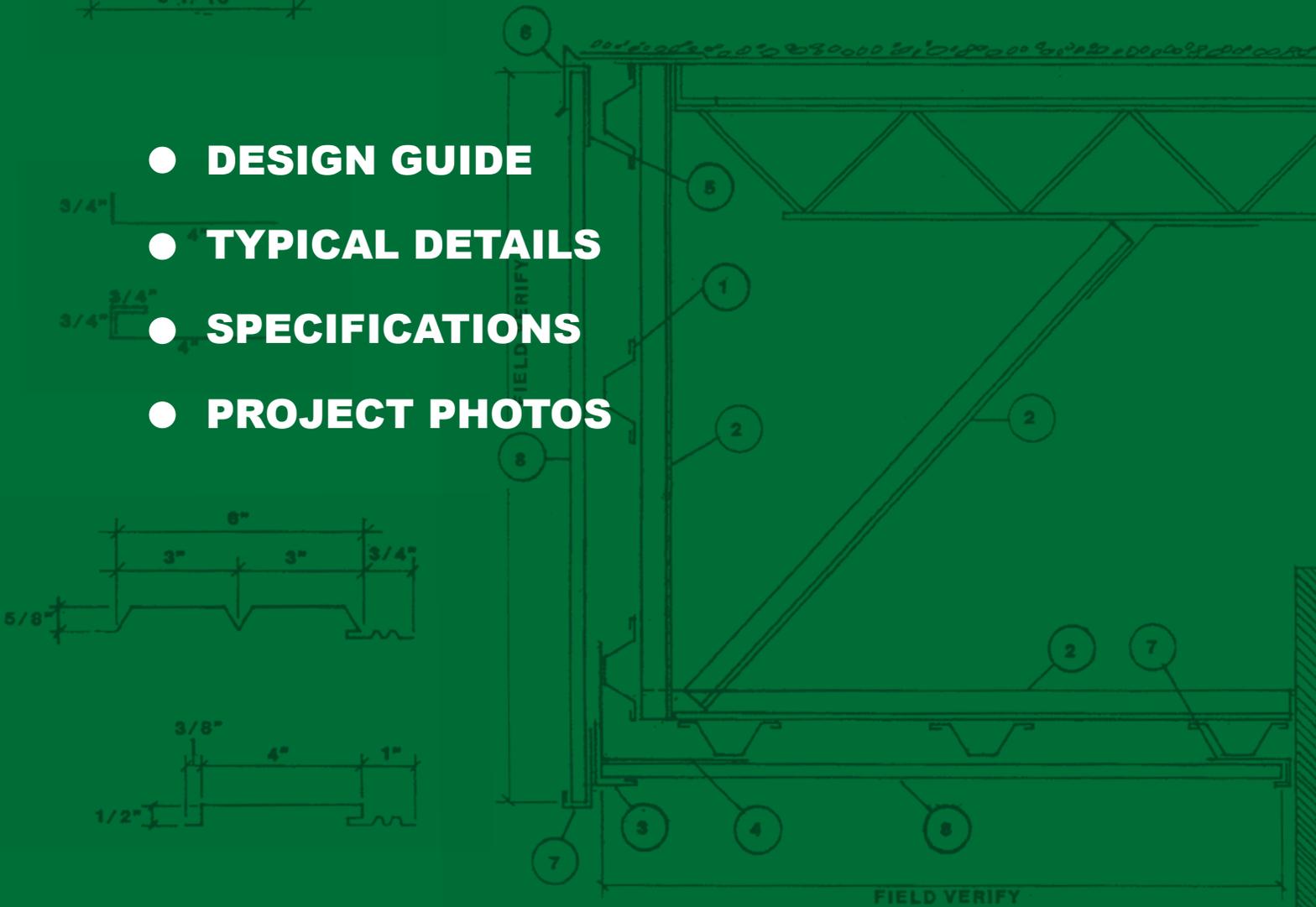
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SECTION 8

VANTAGE POINT

RETROFIT ROOF SYSTEMS

- DESIGN GUIDE
- TYPICAL DETAILS
- SPECIFICATIONS
- PROJECT PHOTOS



For the most up-to-date information visit www.berridge.com

**VANTAGE
POINT** 
RETROFIT ROOF SYSTEM

DESIGN GUIDE 348

TYPICAL DETAILS 350

SPECIFICATIONS..... 353

PROJECT PHOTOS 359

NOTE:

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions.

Berridge Manufacturing Company shall be held harmless from any and all claims arising from lack of watertightness as a result of following these recommended details. Ensuring watertightness on any given project is the function of the installer. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements and assure adequate watertightness.

The installer can virtually assure watertightness if these details have been properly adapted, adequate laps have been provided, correct type of underlayment and sealant used, all joints adequately caulked and professional workmanship employed.

Should a watertightness warranty be required on a specific project, please refer to the procedures outlined in the "Design Guide" section of this manual. These procedures must be adhered to in order for Berridge to issue any type of watertightness warranty.

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VANTAGE POINT DESIGN GUIDE



BERRIDGE VANTAGE POINT SYSTEM:

MORE THAN JUST A NEW ROOF — IT'S A NEW LOOK

Berridge VANTAGE POINT reroofing system combines a new, aesthetic look with simple mechanical attachment over existing flat built-up roofs that will last for years to come. VANTAGE POINT is more than just a patchup or a re-roof solution; it is a permanent, new roof with a new, higher profile which gives your old building a totally new look. The sloped, light weight, self supporting metal panels need no substrate, thus avoiding extra weight and cost. They provide a watertight standing seam that sheds water in contrast to dated, flat built-up roofs which are subject to water ponding and subsequent leakage.

ECONOMICAL INSTALLATION — NO TEAR-OFF REQUIRED

The Berridge VANTAGE POINT Retrofit Roof System completely covers your old roof with its leaks and unneeded, leak-prone roof penetrations to provide a low maintenance, leak-free roof with a 20 year KYNAR 500® paint finish warranty and a life expectancy of years beyond. The system can often be installed directly over the existing roof; because there's no need to remove old roofing, operations need not be interrupted and relocation of contents is unnecessary.

HIGH-QUALITY STRUCTURAL/ARCHITECTURAL PANEL

The ZEE-LOCK Standing Seam Roof system is a cost-efficient, 16" coverage roof panel with a machine seamed, two-inch high seam. It is formed on the job site in continuous lengths to eliminate leak-prone panel endlaps. The Berridge ZEE-LOCK standing seam panel carries the U.L. 90 Wind Uplift Rating. This profile allows for various slopes, heights and configurations in all standard KYNAR 500® colors and natural metal finishes to provide the architect with custom design solutions and the owner with increased building value.

SINGLE SOURCE CONVENIENCE

The ZEE-LOCK panels bear directly on economical Berridge manufactured 16-gauge, light weight, cold rolled framing shapes. The installer orders all necessary coil material & components and all pre-cut retrofit roof system framing members from Berridge. All

these points combine to make VANTAGE POINT the choice for an economical, attractive, value added reroofing system for schools, municipal buildings and other dated facilities.

GUIDELINES FOR DESIGN

Technical input to the architect at the earliest design stage insures successful conversion of existing flat built-up roofs to the sloped, watertight VANTAGE POINT system by Berridge. Because the surface panels are self supporting there is no substrate, therefore watertightness is dependent on simple flashing configurations. The architect must consider both building facade and simplification of flashing conditions together at the earliest design stage to avoid design flaws that are difficult to solve.

A RETROFIT DESIGN CHECKLIST FOR ARCHITECTS & DESIGNERS:

Careful planning in early design stages will save both time and money through prevention of leak-prone designs. Use the following checklist to ensure that your new Berridge VANTAGE POINT Retrofit Roof System will deliver leak-free performance and a lifetime of service:

- Roof slopes may be a minimum of one in twelve to a steep mansard profile.
- Intersecting planes such as hips, dormer and valleys should be kept to a minimum.
- Minimize penetrations such as skylights, curbs for roof-mounted heating or air-conditioning units, roof jacks, or other mechanical systems.

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PROCEDURE

SUBMIT EXISTING ROOF PLAN TO BERRIDGE

In most cases existing structure will support new, lighter VANTAGE POINT Retrofit Roof System, thus avoiding building down time and relocation of contents.

APPROVAL OF SHOP DRAWINGS & DETAILS

Upon request and for a fee, Berridge Manufacturing will lay out the VANTAGE POINT Retrofit Roof System application for acceptance by the architect. Upon acceptance, Berridge will engineer framing design and details, and submit shop drawings for approval by the architect. Erection drawings will be completely dimensioned and numbered for factory fabrication, quality and cost control and uninterrupted installation.

STRUCTURAL DESIGN AND COMPONENTS

Berridge VANTAGE POINT provides the architect with a structural component layout tailored to the individual building configuration using economical, Berridge manufactured, cold rolled, light gauge framing shapes. (See illustrations on Pages 327 - 329). Exact spacing and size of members will vary according to existing structural components. These details are schematic and will be specifically designed on a job by job basis considering most economical use of material and factory and field labor in accordance with standard codes. Budget prices will be quoted upon request.

THERMAL & MECHANICAL CONSIDERATIONS

INSULATION

The space between the old and new roof allows for easily rolled out, low cost, blanket insulation on existing roof deck thus increasing insulation values and greatly reducing heating and cooling costs. This added value helps pay for the cost of the new installation.

VAPOR BARRIER (IF REQUIRED)

A vinyl vapor barrier attached to the underside of the blanket insulation avoids condensation from the building penetrating to the insulation itself and beyond to the new framing system and underside of roof panels.

MECHANICAL EQUIPMENT

Any existing and new mechanical equipment can be located at ground level or grouped and left open by the new roof thus reducing penetrations and the possibility of leaks. Please review equipment height with design considerations to determine configuration.

VENTILATION

The new attic space can be ventilated in several ways. The VANTAGE POINT Retrofit Roof System allows for a self ventilating ridge cap, or louvers may be provided at gables.

THERMAL MOVEMENT

Normal thermal movement is allowed for by floating eave. Where length of panel runs exceed nominal end movement provide inner rib expansion joints.

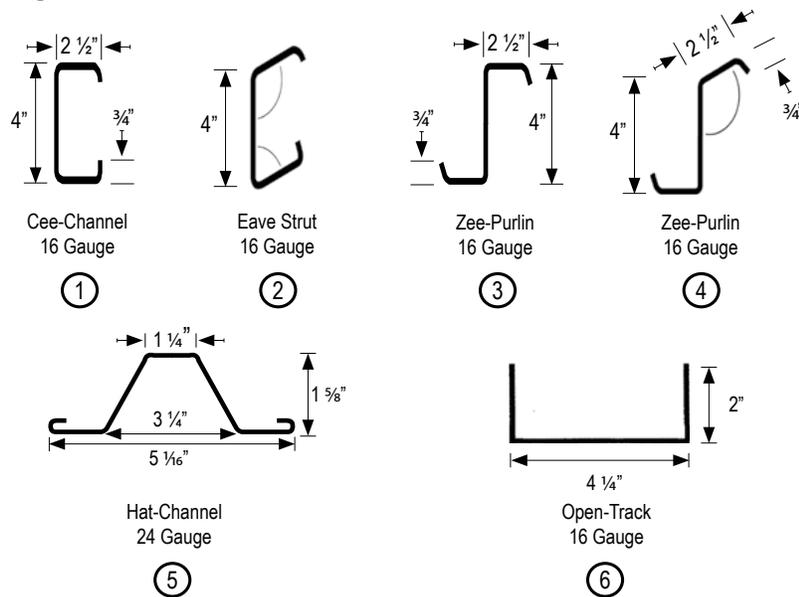
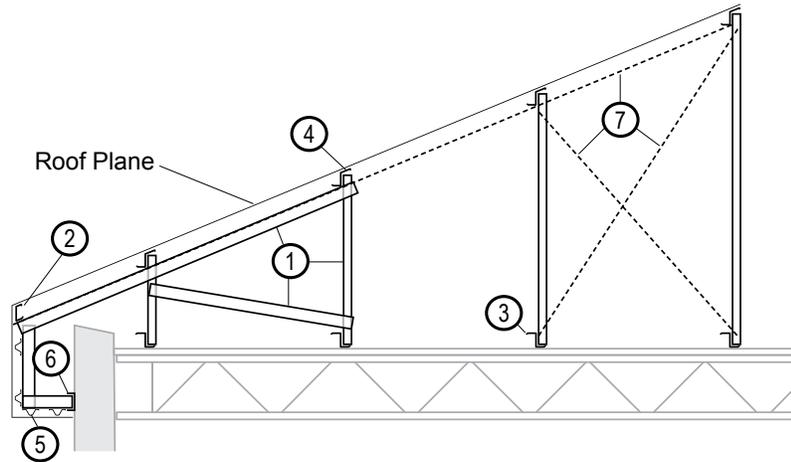
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VANTAGE POINT RETROFIT SYSTEM

BASIC VANTAGE POINT RETROFIT ROOF ASSEMBLY



- ① 16 ga. Cee-Channel. Connect each end w/ (4) #12-14 self-drilling fasteners.
- ② 16 ga. Eave Strut. Connect to beam w/ (2) #12-14 self-drilling fasteners.
- ③ 16 ga. Continuous 4" x 2-1/2" Zee-Purlin Roof Support.
- ④ 16 ga. Continuous 4" x 2-1/2" Retrofit Zee-Purlin.
- ⑤ 24 ga. Hat-Channel. Connect to beam w/ (2) #12-14 self-drilling fasteners each flange.
- ⑥ 16 ga. Open-Track x 1'-0" Long. Anchor into wall. Connect to beam w/ (2) #12-14 self-drilling fasteners each flange.
- ⑦ 24 ga. 2" Bottom Flange Strapping at Purlin mid-span. Connect to purlin w/ (1) #12-14 self-drilling fastener.

Disclaimer: Project specific engineering required. Consult Engineering Dept. for pricing. Suggested detail shown above may not be applicable to every project.

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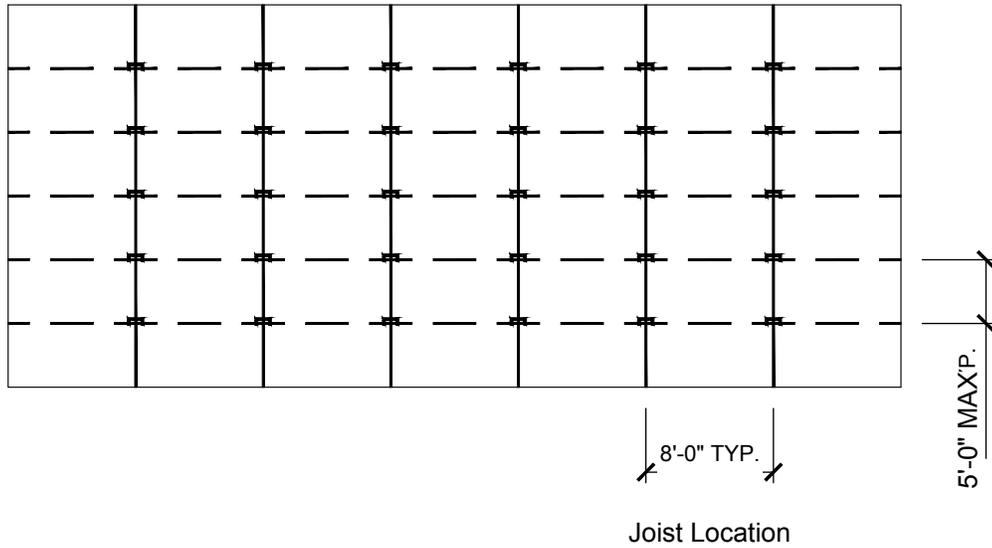
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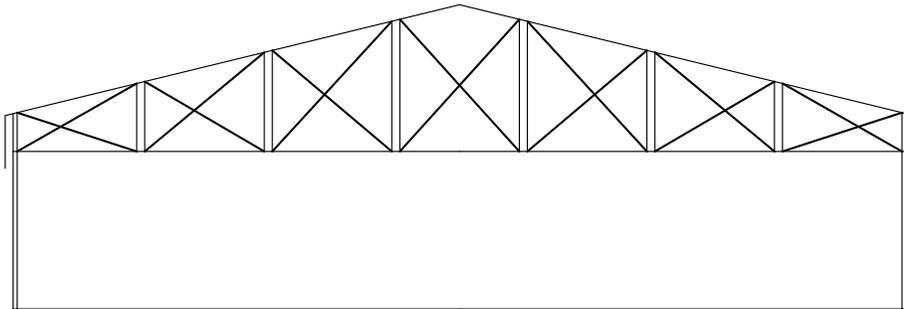
VANTAGE POINT RETROFIT SYSTEM

EXISTING & NEW RETROFIT FRAMING MEMBER LOCATIONS

PLAN VIEW



SECTION VIEW



EXISTING STRUCTURAL FRAMING



VANTAGE POINT RETRO FRAMING
VERTICAL MEMBERS



VANTAGE POINT RETROFIT
FRAMING & BRACING
HORIZONTAL MEMBERS



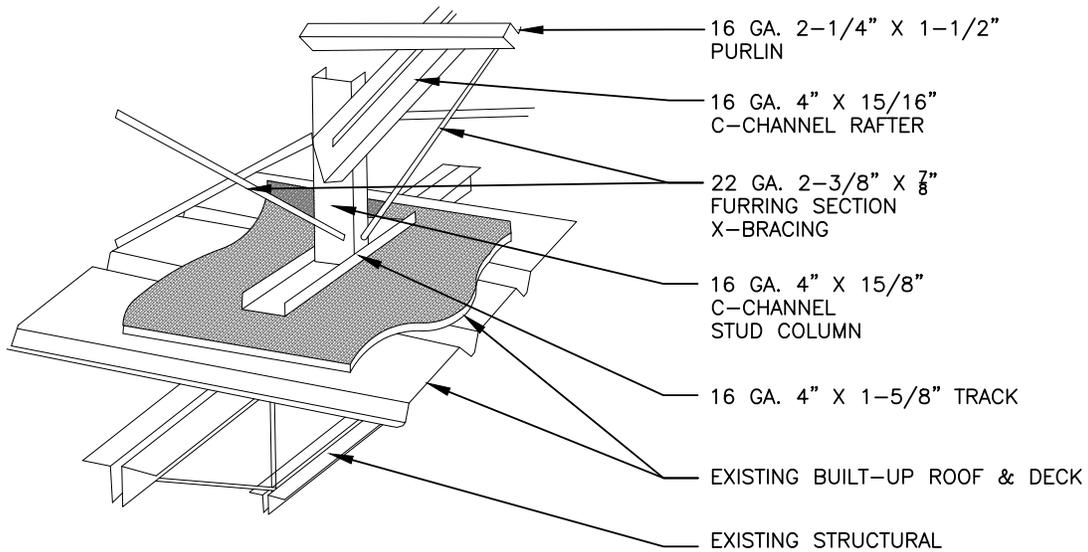
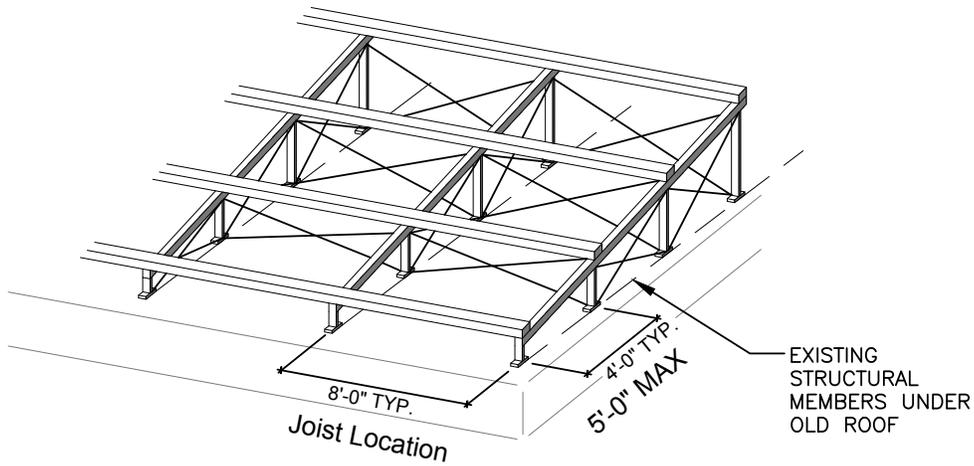
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VANTAGE POINT RETROFIT SYSTEM

ISOMETRIC VIEW SHOWING EXISTING & NEW FRAMING



**ASSEMBLIES MAY VARY DEPENDING ON PROJECT. CONSULT TECHNICAL DEPT. AT (800) 669-0009.
SEE ASSEMBLY ON PAGE 201 FOR MOST COMMON APPLICATION.**

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VANTAGE POINT RETROFIT SYSTEM

SECTION 07610 RETROFIT ROOF SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES:

- A. Section Includes: Preformed and prefinished metal roofing panels, fasteners, clips, perimeter and penetration flashings, closures, insulation, sealant, gutters, seam caps, trim, vapor barriers, expansion joint covers, Retrofit Roof structural subsystem open web framing members, including cold-form track, C-Channel, Framing Sections, Purlins and miscellaneous accessories required to complete the retrofit framing and roofing enclosure as indicated by Contract Documents.

1.02 RELATED SECTIONS

- A. Section 05120: Structural Steel Framing.
B. Section 05500: Miscellaneous metal fabrication.
C. Section 06100: Rough Carpentry.
D. Section 07631: Flashing and Sheet Metal Gutters.
E. Section 07900: Sealants.

1.03 REFERENCES

- A. American Iron and Steel Institute (AISI), Specification for the Design of Cold-Formed Steel Structural Members (August 1986).
B. American Institute of Steel Construction (AISC) Manual of Steel Construction (Current Edition).
C. American Society for Testing and Materials (ASTM):
1. A446: Specification for Steel Sheet Zinc-Coated (Galvanized) by the Hot Dip Process, structural (physical) property.
 2. A525: Standard Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
 3. A792: Specification for Steel Sheet, Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
 4. E283: Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.
 5. E330: Test Method for Structural Performance of Exterior Window, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
 6. E331: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- D. Sheet Metal and Air Conditioning Contractors National Association (SMACNA):
1. 1987 Architectural Sheet Metal Manual.
- E. Underwriter's Laboratories (UL) Building Materials Directory
1. UL 580: Tests for Wind Uplift Resistance of Roof Materials.

1.04 SYSTEM DESCRIPTION

- A. Design Requirements:
1. Continuous, one-piece, preformed, prefinished, mechanically-seamed, single-length roof pans.
 2. Panels, Cleats and other components required for specific project conditions.
 3. Retrofit Roof Framing Structural Subsystem, composed of cold-formed track, c-channel, purlins, framing members and hat sections, designed in accordance with necessary live, wind, dead and existing structural requirements.
 4. Manufacturer is responsible for providing evidence acceptable to Architect that Manufacturer's specified roof system is capable of meeting thermal, wind uplift, and performance requirements specified.
- B. Thermal Movement:
1. Completed metal roofing and flashing system shall be capable of withstanding expansion and contraction of components caused by changes in temperature without buckling, producing excess stress of structure, anchors or fasteners, or reducing performance ability.
 2. Interface between panel and expansion clip shall provide for applicable thermal movement in each direction along the longitudinal direction.
 3. Location and sizes of metal roofing rigid connectors shall be as indicated on engineer's certification and located on shop drawings.
- C. Design Standards:
1. Design Loads (Panels, Clips, and Purlins): Pressures are normal to roof surface in accordance with ASCE 7-98. Where load tests are required to certify performance, factor of safety shall be 2.5 on panel buckling or on clip-to-panel connections. For Wind Loads, an allowable increase factor of 4/3 may be employed (this results in net factors of safety of 1.875 on panel bending or clip failure from wind loads). Factor of safety for panel capacity for Live Loads shall be 2.0.
 2. Panel Clip Requirements: Connection of panel anchor clips to purlins shall be designed to resist loads developed by pressures with proper regard for prying forces and/or bending due to eccentric loading. Performance shall be evaluated at extreme positions of thermal movement. A 1/3 increase in allowable load is permitted for wind pressures. Allowable stresses for design shall be in accordance with specifications in AISI "Cold Formed Steel Design Manual"; factor of safety on testing of connections shall be 2.5.
 3. Deflection Limits: Installed roof system, including framing and deck, shall carry positive uniform design loads with maximum system deflection of L/240 as measured at rib (web) of panel.

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D. Performance Requirements:

1. Underwriter's Laboratories, Inc. (UL) Wind Uplift Resistance Classification For Roof Assembly shall be Class 90, as installed, pursuant to Construction Number 312, as defined by UL 580. Certified statements from manufacturer without proper UL Classification will not be acceptable.
2. Completed metal roof system, including vapor barrier, shall have maximum static pressure air infiltration of 0.02 cfm/square foot with 6.24 PSF air pressure differential when tested in accordance with ASTM E283.
3. No measurable water penetration (dynamic pressure), other than condensation, when exposed to dynamic rain and at 6.24 PSF air pressure differential for not less than fifteen minutes duration, when tested in accordance with ASTM E331.
4. Calculated pull-out capacities for purlins and fasteners shall be certified by registered professional engineer. Minimum safety factor for anchoring fasteners into metal shall be 2.35. Minimum safety factor for anchoring fasteners into concrete shall be 4.0.
5. Entire roofing system (metal panels, flashings, expansion joints, and retrofit roof structural subsystem), are to be detailed to provide weathertight roof under peak weather conditions.

1.05 SUBMITTALS

A. Shop Drawings: Architectural details show design concept and relationship of retrofit roof to other conditions. It is the responsibility of the Installer to prepare detailed shop drawings that adapt proposed roof system and configuration of roof system to conditions of this Project and specified requirements. Shop drawings shall be reviewed by manufacturer's Technical Department before submittal to Architect. Installer shall recommend and make any detail modifications required to insure a proper and watertight system.

1. Show retrofit roofing system with structural framing, standing seam panels, flashings and accessories in plan, elevation, sections and details.
2. Include metal thicknesses and finishes, panel lengths, joining details, anchorage details, flashings and special fabrication provisions for termination and penetrations. Also indicated purlins and clip locations, cold formed open web framing members, thermal expansion provisions, and special supports. Submittal shall include manufacturer's written comments, all fastener descriptions and spacings, sealant description and locations, bend radii, metal thicknesses, and other pertinent information.
3. Indicate relationships with existing roof structural framing.
4. Distinguish between factory and field assembly work.
5. Submit erection drawings showing proposed sequence of laying panels. Provide manufacturer's instructions for storage, handling, and installation, and their standard construction details for conditions on this Project.
6. Shop drawings must be submitted and returned as acceptable prior to beginning field or factory fabrication.

B. Product Data: Submit manufacturer's detailed material and system description, sealant and closure installation instructions, engineering performance data and specifications

C. Submit a sample of each type of roof panel, complete with factory finish. Submit one (1) sample of each sealant type, indicating location of intended use.

D. Quality Control Submittals:

1. Design Calculations:

- a. Submit design calculations sealed by registered engineer indicating compliance with specified performance criteria and certified fastener pullout calculations. Indicate fastener types, spacings and number required for each clip and purlin. Pullout calculations shall be for both purlins and panel clips.
- b. Empirical calculations for roof panel and clip-to-panel performance will not be accepted.

2. Test Reports:

- a. Submit reports from independent testing laboratory that bears stamp of registered engineer (P.E.) to certify compliance with specified performance criteria.
- b. Each pre qualified manufacturer shall provide complete and current data for specified roof system as follows:

- 1) Thermal cycle testing of metal roof panels and panel clips as specified.
- 2) Uniform ultimate wind uplift load capacity test for metal roof panels as specified.
- 3) Ultimate pull-out capacity for panel clips, tested as specified.
- 4) UL 90 Classification test data as specified.
- 5) Model Load Test per ASTM E-1592
- 6) Static air infiltration resistance test data as specified.
- 7) Water penetration test data as specified.
- 8) Purlin and fastener pull-out calculations as specified.

3. Manufacturer's Field Reports:

- a. Submit complete log of field reports prepared by manufacturer.
- b. Include initial report, progress reports and final report.
- c. Submit letter of certification from manufacturer that roof installation is in accordance with shop drawings and manufacturer's requirements and that entire roof installation will be issued specified Watertightness Warranty.

1.06 QUALITY ASSURANCE

A. Manufacturer: Company specializing in Architectural Sheet Metal Products with fifteen (15) years minimum experience. Being listed as prequalified manufacturer does not release manufacturer from providing complete, current and acceptable test data for each performance, thermal and wind load requirement specified for specific profile proposed.

B. No product substitutions shall be permitted without meeting specifications.

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- C. Substitutions shall be submitted 10 Days prior to Bid Date and acceptance put forth in an addendum.
 - D. No substitutions shall be made after the Bid Date.
 - E. Installer Qualifications:
 - 1. Preformed metal roof system installer must be unconditionally acceptable to roof system manufacturer. Manufacturer will determine initial acceptability of installer qualifications for specified roofing systems.
 - a. Submit with Bid complete AIA Document A305 Qualification Form for proposed roofing system installer.
 - b. Architect will determine acceptability of installer prior to award of Contract.
 - 2. Installer must have minimum of five (5) years experience installing preformed metal roofing systems.
 - 3. Installer must have successfully completed minimum of five (5) significant installations of preformed metal roofing systems, including installation of long, field-formed panels. Submit complete description of each previous project, including name and phone numbers of representatives of the Owner, Architect, Manufacturer and Contractor.
 - 4. Submit name and resume of installer's proposed job superintendent, including list of similar projects completed by superintendent.
 - 5. Architect reserves right to inspect fabrication facilities of installer in determining qualifications.
 - 6. Installer must execute 100% of metal roof system installation with installers own employees.
 - F. Pre-Installation Conference:
 - 1. Conduct pre-installation meeting at Project Site before each construction activity that required coordination with installation of preformed metal roofing system.
 - 2. Other trades involved in or affected by installation of metal roof system shall attend.
 - 3. Advise Architect of scheduled meeting dates minimum of three (3) days in advance.
 - 4. Review progress of other construction activities and preparations for particular activity under construction at each pre-installation conference.
 - 5. Record significant discussions and agreements/disagreements of each conference, along with approved schedule. Distribute record of meeting to everyone concerned, promptly, including Owner and Architect.
 - 6. Do not proceed if conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of Work and reconvene conference at earliest feasible date.
- B. Protect components during shipment, storage, handling, and erection from mechanical abuse, stains, discoloration and corrosion.
 - C. Provide protective interleaving between contact areas of exposed surfaces to prevent abrasion during shipping, storage and handling.
 - D. Store materials off ground, providing for drainage, under cover providing for air circulation, and protected from wind movement, foreign material contamination, mechanical damage, cement, lime or other corrosive substances.
 - E. Provide covered storage off ground on Project Site for storage of prefinished metal coils. Maintain availability of equipment on site to off-load and store metal coils as they are delivered to Project Site.
 - F. Handle materials to prevent damage to surfaces, edges and ends of roofing sheets, sheet metal items and substructural framing members. Damaged material shall be rejected and removed from site.
 - G. Protect field fabricated panels from wind-related damage. Provide on-site storage, or other acceptable protection, for fabricated panels prior to installation.
 - H. Examine materials upon delivery. Reject and remove physically damaged, stained or marred material from project site.
 - I. Panels with strippable film must not be stored in the open exposed to the sun.
 - J. Stack all materials to prevent damage and to allow for adequate ventilation.

1.07 SITE CONDITIONS

- A. Determine that work of other trades will not hamper or conflict with necessary fabrication and storage requirements for preformed metal roofing system.
- B. Protection:
 - 1. Provide protection or avoid traffic on completed roof surfaces.
 - 2. Do not overload roof with stored materials.
 - 3. Support no roof-mounted equipment directly on roofing system.
- C. Determine that work of other trades which penetrate roof or is to be made watertight by roof is in place and accepted prior to installation of roofing system.
- D. Smoking is prohibited on roof areas.

1.08 SCHEDULING

- A. Coordinate staging and setup area required for field fabrication equipment provided by metal roofing manufacturer.
- B. Provide temporary equipment (cranes, hoists, forklifts) in accordance with provisions of Division One.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver prefabricated accessories to Project site in manufacturer's unopened containers.

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1.09 WARRANTIES

- A. Furnish manufacturer's Standard Twenty (20) Year Warranty stating architectural fluorocarbon coating finish will be:
1. Free of fading or color change in excess of 2 NBS units as measured per ASTM D 2244-68;
 2. Will not chalk in excess of numerical rating of 8 when measured in accordance with standard procedures specified in ASTM D 659-74;
 3. Will not peel, crack, chip or exhibit any other mechanical failure of paint to adhere to the substrate.
- B. Provide Watertightness Warranty executed jointly by the roof system manufacturer and installer which warrants the installed system to be free of leaks and free from defects in materials and workmanship for a period of twenty (20) years from date of substantial completion of roofing project.

1.10 SUBSTITUTIONS

- A. Substitution of manufacturer's products for those specified will not be allowed at any time during bidding or construction.

PART 2: PRODUCT

2.01 ACCEPTABLE MANUFACTURERS

- A. Berridge Manufacturing Company, Houston, Texas. 713-223-4971 or 1-800-231-8127
- B. Substitutions shall fully comply with specified requirements.

2.02 SHEET MATERIALS

- A. Unfinished metal shall be ASTM A446-85 Grade C G90 Coating, ASTM 525-86 Hot-Dipped Galvanized, or Galvalume ASTM 792-86.
- B. Prefinished metal shall be Hot-Dipped Galvanized ASTM A446-85 Grade C G90 Coating A525-86 24 Gauge core steel or prefinished Galvalume ASTM 792-86.
- C. Finish shall be 70% Kynar 500 Fluorocarbon coating, applied by the manufacturer on a Continuous Coil Coating Line, with a top side dry film thickness of 0.70 to 0.90 mil over 0.25 to 0.35 mil prime coat, to provide a total dry film thickness of 0.95 to 1.25 mil. Bottom side shall be coated with primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesion, flexibility, and longevity as specified by the Kynar 500 finish supplier.
- D. Strippable film shall be applied to the top side of the painted coil to protect the finish during fabrication, shipping and field handling. This strippable film must be removed before installation.

2.03 STRUCTURAL SUBSYSTEM FRAMING MATERIALS

- A. Framing: Top and Bottom Chords and Open Web Framing Members to be made up from cold-form Track, C-Channel and Framing Members of an optimum size to minimize overall subsystem dead load weight upon existing roof and building structure. Longitudinal Hat Section Purlins which conform to roof slope to be provided for attachment of continuous rib roof cleats.

- B. Material: 24, 22, 16, 14 or 12-Gauge Hot Dipped G-90 Coating Galvanized Steel, Grade C ASTM 525-86.

2.04 ACCESSORY MATERIALS

- A. Fasteners: Stainless Steel with washers where required.
- B. Sealant: As specified in Section 07900 [] Type.

2.04 FABRICATION

- A. All exposed adjacent flashing shall be of the same material and finish as the roof panels.
- B. All flashings, hem exposed edges on underside 1/2 inch.
- C. All retrofit roof structural subsystem framing materials to be pre-cut to required length and piece marked to facilitate assembly.

2.05 PREFORMED METAL ROOFING SYSTEM

- A. Zee-Lock Standing Seam Roof System:
1. 2" high vertical legs shall be spaced at 16" on-center.
 2. Panels shall be site-formed with the Berridge Model SP-21-X Portable Roll Former in continuous lengths from ridge to eave or factory-formed in continuous lengths (maximum 40'-0")
 3. Continuous Zee Rib shall be 1-3/8" wide and 2-1/8" in height. Rib shall be connected to purlin with two #12-14 x 1" self-drilling/ tapping fasteners [Zee Clips spaced at 3'-0"].
 4. Optional Vinyl Weatherseal (U.S. Patent 5134825) to be factory-installed over Continuous Zee Rib.
 5. Sidelap to be mechanically seamed with a powered seamer.
 6. When required, panel assembly to bear Underwriters Laboratories Label UL90, pursuant to Construction Number 312 for open framing conditions, either uninsulated or with blanket insulation; 335 or 335 (mod.) with rigid board insulation or 403 over solid substrate and applicable Fire Ratings.
 7. Certification shall be submitted, based on independent testing laboratory, indicating no measurable water penetration or air leakage through the system when tested in accordance with ASTM E-331-86 and E-283-84.
- B. Concealed Continuous Anchor Ribs:
1. Standing seam metal roof shall be fastened to framing members with concealed anchor ribs of minimum G-90 galvanized steel or stainless steel or other properly coated metal of adequate strength and wear resistance to meet or exceed minimum performance requirements of this specification.
 2. Ribs shall accompany panel movement in each direction along longitudinal direction to adequately accommodate temperature differential and panel movement for this Project.
 3. Manufacturer shall design fastener device and spacing of fasteners to maintain required wind uplift resistance at connection.
- C. All exposed adjacent flashing shall be of the same material and finish as the roof panels.

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D. All flashings, hem exposed edges on underside 1/2 inch.

E. Fasteners:

1. Exposed screw fasteners shall be 300 series alloy stainless steel with integrally bonded neoprene stainless steel washers under the heads, painted with urethane finish to match roofing.
2. Exposed rivets shall be self-plugging type minimum 3/16" diameter 300 series alloy stainless steel with stainless steel stems. If located where drainage from possible head leakage does not pass to interior, seal washers are not required, other wise, use EPDM washers under the heads.
3. Concealed fasteners shall be #12 size to meet pullout requirements in specific thickness of support material.
4. There shall be no exposed fasteners except to fasten flashings, at fixing points or as indicated on the drawings.

F. Closures:

1. Ridge and hip closures shall be factory-fabricated from 24 GA sheet metal matching roof panels. Hip closures shall be field cut. Ridge Closures are to be die-formed to match panel configuration.

G. Sealants:

1. Must not contain oil, asbestos or asphalt.
2. Factory-applied sidelap sealant: Non-drying non-skinning, synthetic polymer-based, designed for metal-to-metal concealed joints. Spectrum 1 by Tremco or equal.

2.06 FABRICATION:

A. Panels:

1. Panels shall be fabricated on site in continuous lengths as required. No horizontal overlap joints are permitted in roof panel lengths.
2. Provide pans in full lengths from peak to eave as indicated.
3. Transverse or endlap seams will not be permitted.
4. Design panels to use concealed fasteners. Exposed fasteners in roofing pans will not be permitted.
5. Standing seam must prevent water capillary action, or otherwise prevent water infiltration.
6. Examine panels as they are formed to ensure panels are being formed within acceptable tolerances.

B. Fabricate roofing and related sheet metal work in accordance with accepted shop drawings and applicable standards.

C. Provide linear sheet metal items in minimum 10'-0" sections except as otherwise noted. Form flashing using single pieces for full width. Provide shop fabricated, mitered and joined corners.

PART 3: EXECUTION

3.01 INSPECTION

- A. Examine alignment of roof structure retrofit structural framing subsystem before proceeding with installation of preformed metal roofing.
- B. Examine metal roof deck before starting installation. Deck must be clear, clean and smooth, free of depressions, waves, or projections,

dry and must remain dry and free of ice and snow, after roofing application commences. Deck flutes must be clean and dry.

C. Structural supports shall be in place and sag rods, diagonal bracing, and connections shall be tightened before work can proceed.

D. Field check dimensions and check support alignment with taut string or wire. Support misalignment will cause panel to oil can.

E. Do not proceed with installation until conditions are satisfactory. Notify Architect in writing of unsatisfactory conditions.

F. Felting (for installation over solid substrate):

1. Verify #30 unperforated asphalt saturated roofing felt underlayment (in single layer, weather-lapped head 6", ends 18") has been installed over areas where solid sheathing is required and fastened in place.
2. Ensure felt installed horizontally, starting at eave to ridge with a 6" minimum overlap.
3. Ensure that all fasteners are totally flush with the substrate.

3.02 INSTALLATION

A. General Installation Requirements:

1. Install roofing and flashings in accordance with accepted shop drawings and manufacturer's product data, within specified tolerances.
2. Isolate dissimilar metals and masonry or concrete from metals with bituminous coating. Use gasketed fasteners where required to prevent corrosive action between fastener, substrate and panels.
3. Limit exposed fasteners to extent indicated on shop drawings.
4. Anchorage shall allow for temperature expansion and contraction movement without stress or elongation of panels, clips or anchors. Attach clips to structural substrate using fasteners of size and spacing as determined by manufacturer's design analysis to resist specified uplift and thermal movement forces.
5. Coordinate flashing and sheet metal work to provide weathertight conditions at roof terminations. Fabricate and install in accordance with standards of SMACNA Manual using continuous cleats at all exposed edges.

B. Underlayment:

1. Assemble Retrofit open web framing members with necessary bracing as indicated on manufacturer shop drawings.
2. Install Retrofit Hat Section Purlins, spaced as indicated on plans.

C. Preformed Metal Panels:

1. Fasten clips with fasteners as recommended by manufacturer and at spacings as required for wind uplift.
2. Verify with manufacturer locations of fixed connections and expansion connections.
3. Roll form panels on site with Portable Roll Former in continuous, eave to ridge lengths. Take care to properly support long panels (support at max. 6' intervals).
4. Install starter and edge trim before installing roof panels.
5. Remove protective strippable film prior to installation of roof panels.
6. Install panels to either Continuous Clips per manufacturer's details.
7. Vinyl Weatherseal is factory-installed on Continuous Clip.

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8. Seam Panel sidelaps using power-driven Seamer as recommended by manufacturer to ensure watertightness.
9. Erect metal roofing with lines, planes, rises and angles sharp and true, and plane surfaces free from objectionable wave, warp, dents, buckle or other physical defects with minimum oil canning.
10. Do not allow traffic on completed roof. If required, provide cushioned walk boards.
11. Protect installed roof panels and trim from damage caused by adjacent construction until completion of installation.
12. Remove and replace any panels or components which are damaged beyond successful repair.

D. Flashing:

1. Comply with SMACNA "Architectural Sheet Metal Manual" recommendations for installation of work.
2. Conceal fasteners and expansion provisions wherever possible.
3. Fold back edges of concealed side of exposed edge to form hem.
4. Insert metal flashings into reglets, anchor with fasteners and wedges and seal joints.
5. Set sheet metal items level, true to line and plumb.
6. Secure to wood with screws.
7. Set metal already partly formed in place and fasten to by means of cleats.
8. Use cleats to keep laps closed when face width exceeds 8" for 24 gauge steel.

3.03 FIELD QUALITY CONTROL

A. Tolerances:

1. Applicable erection tolerances: Maximum variation from true planes or lines shall be 1/4" in 20' - 0", 3/8" in 40' - 0" or more.
2. Retrofit Roof Structural Roof Structural Subsystem are designed for minimum roof slope of 1/2:12 (refer to roof plans for areas and slope).

B. Manufacturer's Field Service:

1. Manufacturer's representative shall be present at each pre-installation and pre-roofing conference and during set-up of manufacturer's field forming equipment.
2. Jointly examine roof structure with installer prior to beginning roof installation.
3. Manufacturer's representative shall be present during initial layout and installation of roofing system. Observe minimum of initial one week period of roof panel installation on daily basis, ensuring installer follows manufacturer's installation recommendations and shop drawings. Observe initial forming passes for fabrication within acceptable tolerances.
4. Visit Project site minimum bi-monthly for duration of installation period.
5. Examine completed installation for conformance to shop drawings. Notify installer and Contractor in writing of discrepancies.

3.03 CLEANING

- A. Clean exposed surfaces of work promptly after completion of installation. To prevent rust staining on finished surfaces, immediately remove filings produced by drilling or cutting.
- B. Clean roof in accordance with manufacturer's recommendations.
- C. Clean exposed surfaces of roofing and accessories after completion of installation. Leave in clean condition at Date of Substantial Completion for Project. Touch up minor abrasions and scratches in finish.
- D. Touch up exposed fasteners using paint furnished by roofing panel manufacturer and matching exposed panel surface finish.
- E. Remove all scrap and construction debris from the site.

3.04 FINAL INSPECTION

- A. Final inspection will be performed by a firm appointed and paid for by the owner in accordance with section 01410.

END OF SECTION

VANTAGE POINT RETROFIT SYSTEM

PROJECT PHOTOS



EGLIN AIR FORCE BASE DORM 19 RENOVATION

The addition of central air conditioning and water chiller units to the massive dormitory structures at Eglin Air Force Base meant the addition of exposed ductwork and piping systems to the existing flat roofs. The solution was a new sloped standing seam roof structure to provide both aesthetics and weather protection.

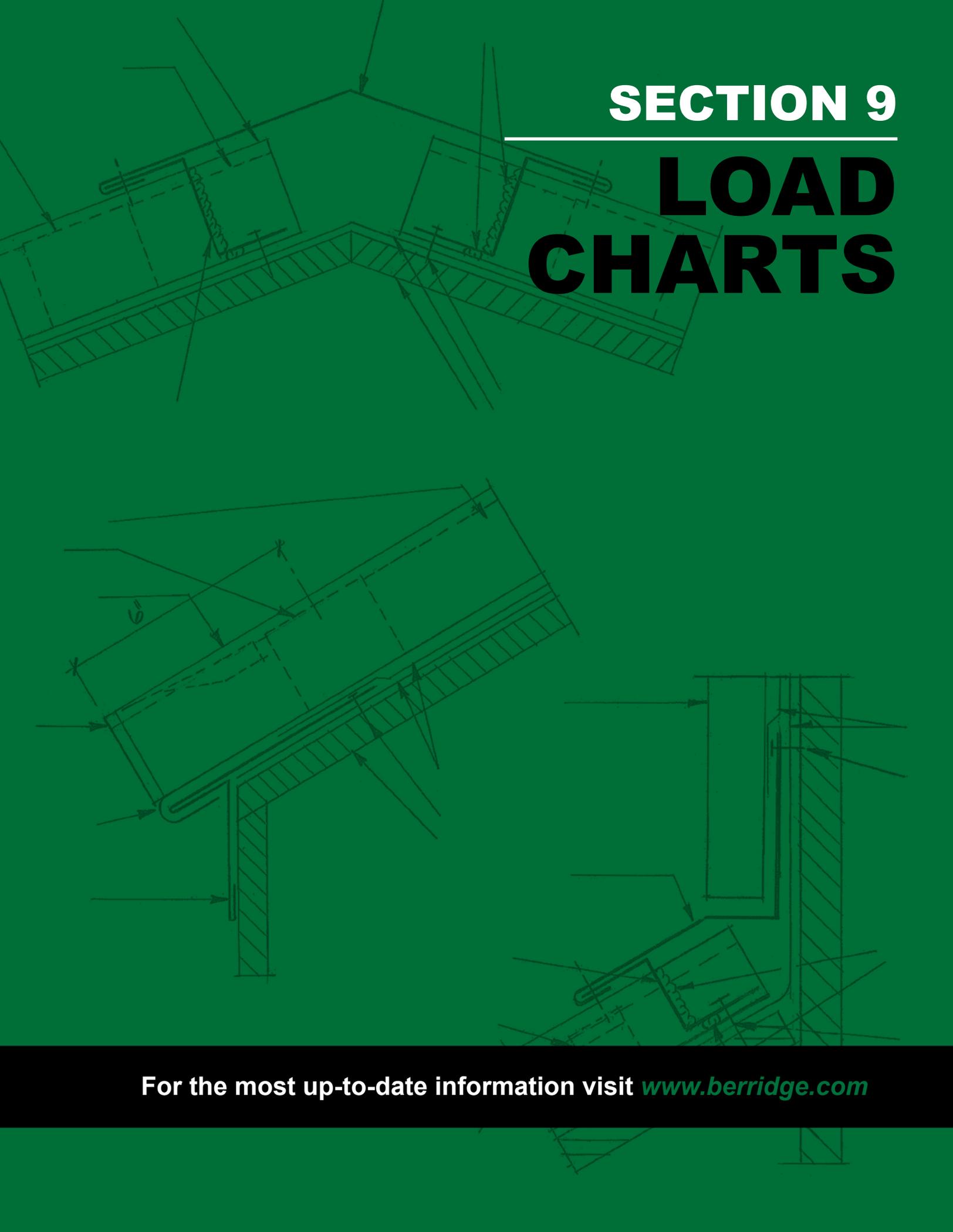
General Contractor: Speegle Construction Co.
Architect: Heffernan Holland Morgan
Installer: Sheet Metal Masters, Inc.
Retrofit System: Berridge Vantage Point Retrofit Framing System
Roof System: Zee-Lock Standing Seam Roof System



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The background of the page is a dark green color with several white architectural line drawings overlaid. These drawings show various details of a roof and wall assembly, including cross-sections of roof gables, eaves, and wall-to-roof connections. The drawings use standard architectural symbols for materials like insulation and concrete, and include dimension lines and arrows indicating specific components and measurements.

SECTION 9

LOAD CHARTS

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NOTE:

The details contained in this manual are merely recommendations as to how Berridge Manufacturing Company materials should be installed. They may require adaptations or modifications for a specific project, as conditions vary in both building design and local climatic conditions.

Berridge Manufacturing Company shall be held harmless from any and all claims arising from lack of watertightness as a result of following these recommended details. Ensuring watertightness on any given project is the function of the installer. The architect, general contractor or installer must accept the responsibility to adapt these details to meet particular building requirements and assure adequate watertightness.

The installer can virtually assure watertightness if these details have been properly adapted, adequate laps have been provided, correct type of underlayment and sealant used, all joints adequately caulked and professional workmanship employed.

Should a watertightness warranty be required on a specific project, please refer to the procedures outlined in the "Design Guide" section of this manual. These procedures must be adhered to in order for Berridge to issue any type of watertightness warranty.

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LOAD CHARTS

TEE-PANEL



Tee-Panel (Galvalume Substrate)							
Gauge of Panel	Sheathing Option	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	1/2" Plywood	24	Tee-Clip	#10	1	52.5	105
24	22 ga. Steel Deck	15	Tee-Clip	#10	1	52.5	105

NOTES:

- 1) Fasteners for **Wood Deck** to be Pancake Head with #2 Phillips head or Hex-Head Wood Screw
- 2) Fasteners for **Steel Deck** to be Pancake Head with #2 Phillips head or Hex-Head Self-Drilling, Self-Tapping Screw

HIGH SEAM TEE-PANEL



High Seam Tee-Panel (Galvalume Substrate)							
Gauge of Panel	Sheathing Option	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	1/2" Plywood	24	Tee-Clip	#10	1	52.5	105
24	22 ga. Steel Deck	24	Tee-Clip	#10	1	52.5	105

NOTES:

- 1) Fasteners for **Wood Deck** to be Pancake Head with #2 Phillips head or Hex-Head Wood Screw
- 2) Fasteners for **Steel Deck** to be Pancake Head with #2 Phillips head or Hex-Head Self-Drilling, Self-Tapping Screw

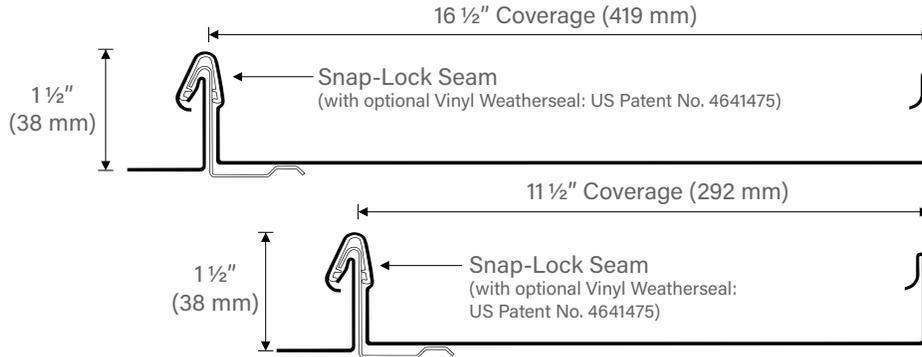
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LOAD CHARTS

CEE-LOCK PANEL



Cee-Lock Section Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)	V_A (lbs/ft)
Positive Bending	0.0567	87.0	610
Negative Bending	0.0286	61.9	610

NOTES:

- 1) Cee-Lock Panel with continuous 24 GA Cee-Rib.
- 2) Values Based on 1996 edition of AISI and good engineering practice.

Open Framing on 16 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
22	24	Continuous Rib	1/4-14 DP3	2	150	300
22	30	Continuous Rib	1/4-14 DP3	2	133.75	267.50
22	36	Continuous Rib	1/4-14 DP3	2	117.50	235
22	42	Continuous Rib	1/4-14 DP3	2	101.25	202.50
22	48	Continuous Rib	1/4-14 DP3	2	85	170

NOTES:

- 1) All test results determined through ASTM E1592 testing standards.

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CEE-LOCK PANEL

22 ga Metal Decking (Galvalume Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	8	Continuous Rib	#14-13 DP1	1	213.35	232
24	10	Continuous Rib	#14-13 DP1	1	190.89	228.25
24	12	Continuous Rib	#14-13 DP1	1	168.43	224.50
24	14	Continuous Rib	#14-13 DP1	1	145.96	220.75
24	16	Continuous Rib	#14-13 DP1	1	123.50	217
22	8	Continuous Rib	#14-13 DP1	1	183.50	367
22	10	Continuous Rib	#14-13 DP1	1	170.38	340.75
22	12	Continuous Rib	#14-13 DP1	1	157.25	314.50
22	14	Continuous Rib	#14-13 DP1	1	144.13	288.25
22	16	Continuous Rib	#14-13 DP1	1	131	262
(Aluminum Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	12	Fixed Clip	#14-13 DP1	2	116	232
0.032	14	Fixed Clip	#14-13 DP1	2	104.75	209.50
0.032	16	Fixed Clip	#14-13 DP1	2	93.50	187
0.032	18	Fixed Clip	#14-13 DP1	2	82.25	164.5
0.032	20	Fixed Clip	#14-13 DP1	2	71	142

NOTES:

- 1) Maximum 6" thick rigid board with minimum compressive strength of 20 psi allowed in assembly.
- 2) All test results determined through UL580/ UL1897 testing standards.
- 3) Bearing plate required for all clip assemblies directly over rigid board.

1/2" Plywood (Galvalume Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	10	Continuous Rib	#10-13 GP	1	108.5	217
24	12	Continuous Rib	#10-13 GP	1	102.5	205
24	14	Continuous Rib	#10-13 GP	1	96.5	193
24	16	Continuous Rib	#10-13 GP	1	90.5	181
24	18	Continuous Rib	#10-13 GP	1	84.5	169
24	20	Continuous Rib	#10-13 GP	1	78.5	157
(Aluminum Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	8	Fixed Clip	#12-11 GP	2	116	232
0.032	10	Fixed Clip	#12-11 GP	2	107.25	214.5
0.032	12	Fixed Clip	#12-11 GP	2	98.5	197
0.032	14	Fixed Clip	#12-11 GP	2	89.75	179.5
0.032	16	Fixed Clip	#12-11 GP	2	81	162
0.032	18	Fixed Clip	#12-11 GP	2	72.25	144.5
0.032	20	Fixed Clip	#12-11 GP	2	63.5	127

NOTES:

- 1) All test results determined through UL580/ UL1897 testing standards.

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SINGLE LOCK ZEE-LOCK PANEL



Zee-Lock Section Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)	V_A (lbs/ft)
Positive Bending	0.1525	184.65	990
Negative Bending	0.1031	161.33	990

NOTES:

- 1) Zee-Lock with Continuous 24 GA Rib.
- 2) Values based on 1996 edition of AISI and good engineering practice.

Open Framing on 16 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	Continuous Rib	#12-14 Self-driller	2	60.00	120.00
24	30	Continuous Rib	#12-14 Self-driller	2	58.23	116.47
24	36	Continuous Rib	#12-14 Self-driller	2	56.47	112.93
24	42	Continuous Rib	#12-14 Self-driller	2	54.70	109.40
24	48	Continuous Rib	#12-14 Self-driller	2	52.94	105.87
24	54	Continuous Rib	#12-14 Self-driller	2	51.17	102.33
24	60	Continuous Rib	#12-14 Self-driller	2	49.40	98.80

22 ga Metal Decking (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	18	Continuous Rib	#12 Self-driller	1	77.50	155
24	16	Continuous Rib	#14-13 DP1	1	101.00	202

NOTES:

- 1) Maximum 4" thick rigid board with minimum compressive strength of 20 psi allowed in assembly when utilizing 18" on center fasteners.
- 2) Maximum 6" thick rigid board with minimum compressive strength of 20 psi allowed in assembly when utilizing 16" on center fasteners.
- 3) All test results determined through UL580/ UL1897 testing standards.

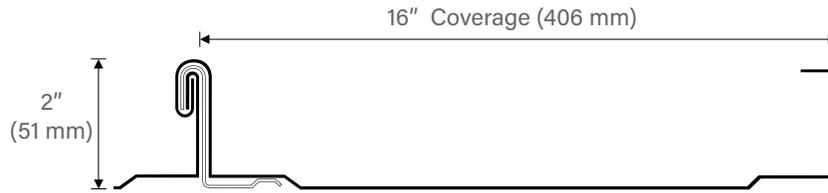
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DOUBLE LOCK ZEE-LOCK PANEL



Zee-Lock Section Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)	V_A (lbs/ft)
Positive Bending	0.1525	184.65	990
Negative Bending	0.1031	161.33	990

NOTES:

- 1) Zee-Lock with Continuous 24 GA Rib.
- 2) Values based on 1996 edition of AISI and good engineering practice.

Open Framing on 16 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	Continuous Rib	1/4-14 DP3	2	120	240
24	30	Continuous Rib	1/4-14 DP3	2	110.42	220.83
24	36	Continuous Rib	1/4-14 DP3	2	100.83	201.67
24	42	Continuous Rib	1/4-14 DP3	2	91.25	182.50
24	48	Continuous Rib	1/4-14 DP3	2	81.67	163.33
24	54	Continuous Rib	1/4-14 DP3	2	72.08	144.17
24	60	Continuous Rib	1/4-14 DP3	2	62.50	125
24	12	2-Piece Floating Clip	1/4-14 HWH	2	135.28	270.55
24	14	2-Piece Floating Clip	1/4-14 HWH	2	126.60	253.21
24	16	2-Piece Floating Clip	1/4-14 HWH	2	117.93	235.86
24	18	2-Piece Floating Clip	1/4-14 HWH	2	109.26	218.52
24	20	2-Piece Floating Clip	1/4-14 HWH	2	100.59	201.18
24	22	2-Piece Floating Clip	1/4-14 HWH	2	91.92	183.83
24	24	2-Piece Floating Clip	1/4-14 HWH	2	83.25	166.49
22	30	Continuous Rib w/ 22 ga backer plate	#12-14 HWH T3 Fenderhead	3	140	280
22	36	Continuous Rib w/ 22 ga backer plate	#12-14 HWH T3 Fenderhead	3	133.50	267
22	42	Continuous Rib w/ 22 ga backer plate	#12-14 HWH T3 Fenderhead	3	127	254
22	48	Continuous Rib w/ 22 ga backer plate	#12-14 HWH T3 Fenderhead	4	120.50	241
22	54	Continuous Rib w/ 22 ga backer plate	#12-14 HWH T3 Fenderhead	4	114	228
22	60	Continuous Rib w/ 22 ga backer plate	#12-14 HWH T3 Fenderhead	4	107.50	215

NOTES:

- 1) All test results determined through ASTM E1592 testing standards.

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DOUBLE LOCK ZEE-LOCK PANEL

22 ga Metal Decking (Galvalume Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	8	Continuous Rib	#14-13 DP1	1	176	352
24	10	Continuous Rib	#14-13 DP1	1	174.13	348.25
24	12	Continuous Rib	#14-13 DP1	1	172.25	344.50
24	14	Continuous Rib	#14-13 DP1	1	170.38	340.75
24	16	Continuous Rib	#14-13 DP1	1	168.50	337
24	12	Fixed Clip	#14-13 DP1	2	138.50	277
24	14	Fixed Clip	#14-13 DP1	2	133.50	267
24	16	Fixed Clip	#14-13 DP1	2	128.50	257
24	18	Fixed Clip	#14-13 DP1	2	123.50	247
24	20	Fixed Clip	#14-13 DP1	2	118.50	237
24	22	Fixed Clip	#14-13 DP1	2	113.50	227
24	24	Fixed Clip	#14-13 DP1	2	108.50	217
24	6	2-Piece Floating Clip	#14-13 DP1	2	200	400
24	8	2-Piece Floating Clip	#14-13 DP1	2	188.17	376.33
24	10	2-Piece Floating Clip	#14-13 DP1	2	176.33	352.67
24	12	2-Piece Floating Clip	#14-13 DP1	2	164.50	329
24	14	2-Piece Floating Clip	#14-13 DP1	2	152.67	305.33
24	16	2-Piece Floating Clip	#14-13 DP1	2	140.83	281.67
24	18	2-Piece Floating Clip	#14-13 DP1	2	129	258
24	20	2-Piece Floating Clip	#14-13 DP1	2	117.17	234.33
24	22	2-Piece Floating Clip	#14-13 DP1	2	105.33	210.67
24	24	2-Piece Floating Clip	#14-13 DP1	2	93.50	187
22	8	Continuous Rib	#14-10 Dekfast	1	213.50	427
22	10	Continuous Rib	#14-10 Dekfast	1	194.75	389.50
22	12	Continuous Rib	#14-10 Dekfast	1	176	352
22	14	Continuous Rib	#14-10 Dekfast	1	157.25	314.50
22	16	Continuous Rib	#14-10 Dekfast	1	138.50	277
(Aluminum Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	6	2-Piece Floating Clip	#14-13 DP1	2	236	472
0.032	8	2-Piece Floating Clip	#14-13 DP1	2	223.50	447
0.032	10	2-Piece Floating Clip	#14-13 DP1	2	211	422
0.032	12	2-Piece Floating Clip	#14-13 DP1	2	198.50	397
0.032	14	2-Piece Floating Clip	#14-13 DP1	2	186	372
0.032	16	2-Piece Floating Clip	#14-13 DP1	2	173.50	347
0.032	18	2-Piece Floating Clip	#14-13 DP1	2	161	322
0.032	20	2-Piece Floating Clip	#14-13 DP1	2	149	297
0.032	22	2-Piece Floating Clip	#14-13 DP1	2	136	272
0.032	24	2-Piece Floating Clip	#14-13 DP1	2	123.50	247

NOTES:

- 1) Maximum 6" thick rigid board with minimum compressive strength of 20 psi allowed in assembly.
- 2) All test results determined through UL580/ UL1897 testing standards.
- 3) Bearing plate required for all clip assemblies directly over rigid board.

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DOUBLE LOCK ZEE-LOCK PANEL

1/2" Plywood (Galvalume Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener*	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	8	Continuous Rib	#12-11 Type A	1	174.25	348.50
24	10	Continuous Rib	#12-11 Type A	1	154.07	308.13
24	12	Continuous Rib	#12-11 Type A	1	133.88	267.75
24	14	Continuous Rib	#12-11 Type A	1	113.69	227.38
24	16	Continuous Rib	#12-11 Type A	1	93.50	187
24	12	Fixed Clip	#12-11 GP	2	138.50	277
24	14	Fixed Clip	#12-11 GP	2	132.25	264.5
24	16	Fixed Clip	#12-11 GP	2	126	252
24	18	Fixed Clip	#12-11 GP	2	119.75	239.5
24	20	Fixed Clip	#12-11 GP	2	113.50	227
24	22	Fixed Clip	#12-11 GP	2	107.25	214.5
24	24	Fixed Clip	#12-11 GP	2	101	202
24	12	2-Piece Floating Clip	#14-10 Panel-Tite	2	131	262
24	14	2-Piece Floating Clip	#14-10 Panel-Tite	2	126	252
24	16	2-Piece Floating Clip	#14-10 Panel-Tite	2	121	242
24	18	2-Piece Floating Clip	#14-10 Panel-Tite	2	116	232
24	20	2-Piece Floating Clip	#14-10 Panel-Tite	2	111	222
24	22	2-Piece Floating Clip	#14-10 Panel-Tite	2	106	212
24	24	2-Piece Floating Clip	#14-10 Panel-Tite	2	101	202
(Aluminum Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener*	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	6	2-Piece Floating Clip	#14-10 Panel-Tite	2	191	382
0.032	8	2-Piece Floating Clip	#14-10 Panel-Tite	2	178.50	357
0.032	10	2-Piece Floating Clip	#14-10 Panel-Tite	2	166	332
0.032	12	2-Piece Floating Clip	#14-10 Panel-Tite	2	153.50	307
0.032	14	2-Piece Floating Clip	#14-10 Panel-Tite	2	141	282
0.032	16	2-Piece Floating Clip	#14-10 Panel-Tite	2	128.50	257
0.032	18	2-Piece Floating Clip	#14-10 Panel-Tite	2	116	232
0.032	20	2-Piece Floating Clip	#14-10 Panel-Tite	2	103.50	207
0.032	22	2-Piece Floating Clip	#14-10 Panel-Tite	2	91	182
0.032	24	2-Piece Floating Clip	#14-10 Panel-Tite	2	78.50	157

*No Washers On Panel-Tite Fasteners

NOTES:

1) All test results determined through UL580/ UL1897 testing standards.

7/16" OSB (Galvalume Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	8	Continuous Rib	#14-10 HWH Type A	1	146	292
24	10	Continuous Rib	#14-10 HWH Type A	1	126	252
24	12	Continuous Rib	#14-10 HWH Type A	1	106	212
24	14	Continuous Rib	#14-10 HWH Type A	1	86	172

NOTES:

1) All test results determined through UL580/ UL1897 testing standards.

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TEE-LOCK PANEL



Tee-Lock Section Properties Based on 24 Gauge 40

K.S.I.

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)	V_A (lbs/ft)
Positive Bending	0.1525	184.65	990
Negative Bending	0.1031	161.33	990

NOTES:

- 1) Tee-Lock Panel with 16 GA Tee-Lock Clip.
- 2) Values based on 1996 edition of AISI and good engineering practice.

Open Framing on 16 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	30	Fixed Clip	#12-14 Fenderhead T-3 SD	2	67.68	135.35
24	36	Fixed Clip	#12-14 Fenderhead T-3 SD	2	60.90	121.80
24	42	Fixed Clip	#12-14 Fenderhead T-3 SD	2	54.13	108.25
24	48	Fixed Clip	#12-14 Fenderhead T-3 SD	2	47.35	94.70
24	54	Fixed Clip	#12-14 Fenderhead T-3 SD	2	40.58	81.15
24	60	Fixed Clip	#12-14 Fenderhead T-3 SD	2	33.80	67.60
24	60	Tee-Rib	#12-14 Fenderhead T-3 SD	2	140.50	281.00

NOTES:

- 1) Fenderhead fasteners to be without washer.
- 2) All test results determined through ASTM E1592 testing standards.

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TEE-LOCK PANEL

22 ga Metal Decking (Galvalume Substrate)						
Gauge of	Spacing	Clip Type	Fastener	Fastener	Allowable	Ultimate (psf)
24	12	Fixed Clip	#14-13 DP1	2	206	412
24	16	Fixed Clip	#14-13 DP1	2	188.50	377
24	20	Fixed Clip	#14-13 DP1	2	171	342
24	24	Fixed Clip	#14-13 DP1	2	153.50	307
24	28	Fixed Clip	#14-13 DP1	2	136	272
24	32	Fixed Clip	#14-13 DP1	2	118.50	237
24	36	Fixed Clip	#14-13 DP1	2	101	202
(Aluminum Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	12	Fixed Clip	#14-13 DP1	2	183.50	367
0.032	16	Fixed Clip	#14-13 DP1	2	166	332
0.032	20	Fixed Clip	#14-13 DP1	2	148.50	297
0.032	24	Fixed Clip	#14-13 DP1	2	131	262
0.032	28	Fixed Clip	#14-13 DP1	2	113.50	227
0.032	32	Fixed Clip	#14-13 DP1	2	96	192
0.032	36	Fixed Clip	#14-13 DP1	2	78.50	157

NOTES:

- 1) Maximum 6" thick rigid board with minimum compressive strength of 20 psi allowed in assembly.
- 2) All test results determined through UL580/ UL1897 testing standards.
- 3) Bearing plate required for all clips assemblies directly over rigid board.

1/2" Plywood (Galvalume Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	12	Fixed Clip	#12-11 GP	2	101	202
24	16	Fixed Clip	#12-11 GP	2	98.50	197
24	20	Fixed Clip	#12-11 GP	2	96	192
24	24	Fixed Clip	#14-10 Panel-Tite	2	93.50	187
24	28	Fixed Clip	#14-10 Panel-Tite	2	91	182
24	32	Fixed Clip	#14-10 Panel-Tite	2	88.50	177
24	36	Fixed Clip	#14-10 Panel-Tite	2	86	172

NOTES:

- 1) No washer on Panel-tite Fasteners.
- 2) All test results determined through UL580/ UL1897 testing standards.

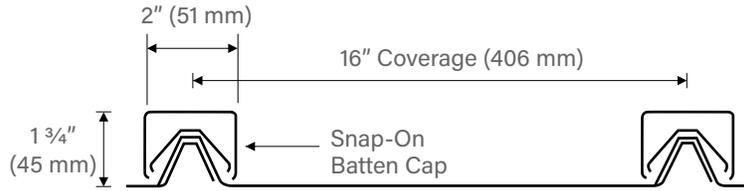
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BATTEN SEAM PANEL



**Batten Seam Section Properties Based on 24 Gauge
40 K.S.I.**

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)	V_A (lbs/ft)
Positive Bending	0.1003	187.3	1320
Negative Bending	0.0615	131.3	1320

NOTES:

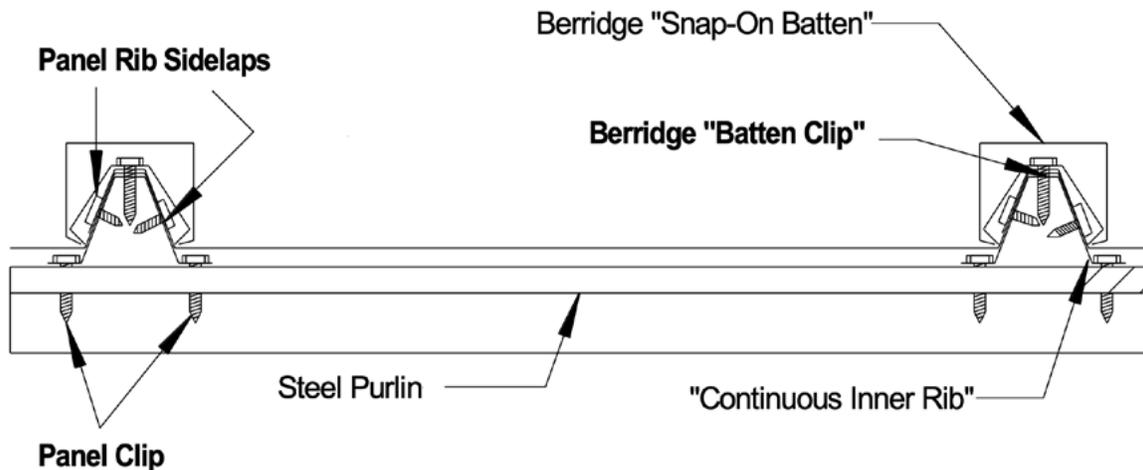
- 1) Batten Seam with Continuous 24 gauge Inner Rib.
- 2) Values based on 1996 Edition of AISI and good engineering practice.

**Open Framing on 16 ga Steel Support
(Galvalume Substrate)**

	Material Gauge	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
Panel to Purlin	24	48	Continuous Inner Rib	#10	2	52.5	105
Panel Side Lap Fasteners	24	12		#10	1 Staggered on either side of Rib		
Batten Clip to Panel	24	20	Batten Clip	#10	1		

NOTES:

- 1) All results determined through UL90 Construction #262 Certification.
- 2) Refer to below diagram for pictorial clarification.



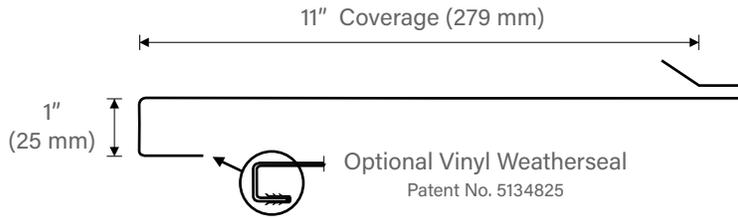
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BERMUDA PANEL



19/32" Plywood (Galvalume Substrate)						
Gauge of Panel	Spacing (in)	Clip Type	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	Berridge Anchor Clip	#10 Pancake	1	52.50	105

NOTES:

1) All results determined through UL90 Construction #405 Certification.

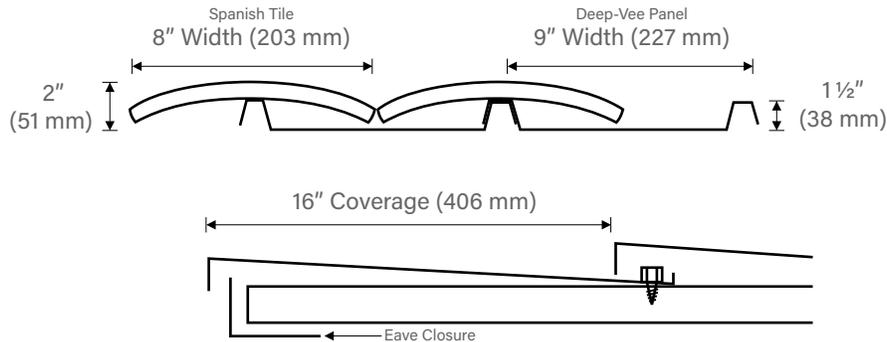
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SPANISH TILE



Spanish Tile Section Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)	V_A (lbs/ft)
Positive Bending	0.1097	217.7	1100
Negative Bending	0.0703	142.9	1100

NOTES:

- 1) Values based on 1996 Edition of AISI and good engineering practice.

Recommended Load (psf) Panel WT = 2.7 psf

Span (ft)	Net Vertical Dead + Live Load			Net Vertical Wind Uplift		
	1-Span	2-Span	3-Span	1-Span	2-Span	3-Span
2'-6"-3'-0"	70	70	70	90	90	90
4'-0"	65	65	70	70	90	90
4'-6"		50	60		90	60
5'-0"		40	50		70	70

NOTES:

- 1) All loads meet L/240 Deflection Criteria.
- 2) Wind Load Allowable Stresses increased by 33%.
- 3) Values based on 1996 edition of AISI and good engineering practice.

15/32" Plywood (Galvalume Substrate)

	Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
Panel Fastener	24	24	#9-15 Hex-head Wood Screw	2	131	262
Tile Head Fastener	24	1/2" from Head through factory formed hole	#8 Hex-head Self-driller	1		
Tile Nose Fastener	24	1" from Nose, centered on tile	#10 Hex-head Self-driller	1		

Notes:

- 1) All test results determined through UL580 testing standards.
- 2) Refer to below diagram for pictorial clarification.

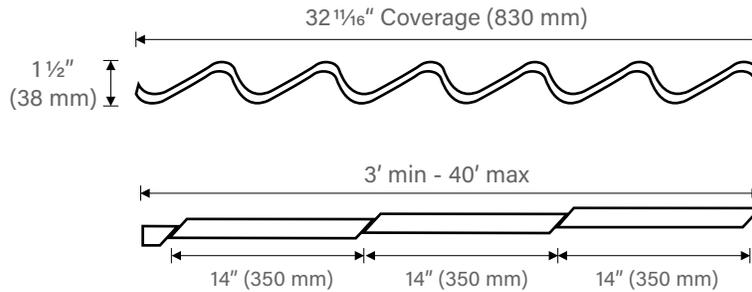
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S-TILE



19/32" Plywood⁴

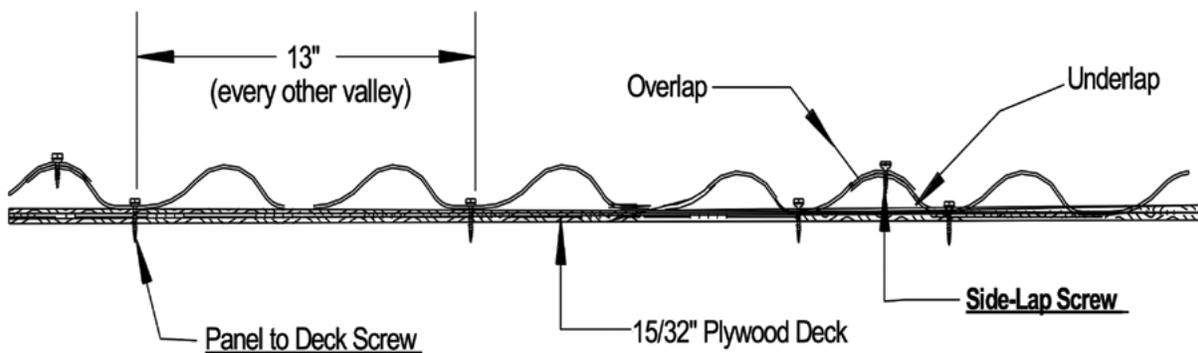
(Galvalume Substrate)

Gauge of Panel	Detail	Spacing (in)	Panel Fastener	Sidelap Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	A	14	#9-15 HWH	#12-14 HWH	1	84.25	168.5
24	B	14	#14-10 HWH	1/4"-14 HWH	1	134.75	269.50
24	C	14	#14-10 HWH	1/4"-14 HWH	1	206.00	412.00

NOTES:

- 1) All test results determined through UL580 testing standards.
- 2) **All** fasteners to be longlife fasteners with neoprene washers.
- 3) Stitch fasten panels together @ 14" on center.
- 4) Detail "A" can be installed over 15/32" or 19/32" plywood.

Detail A



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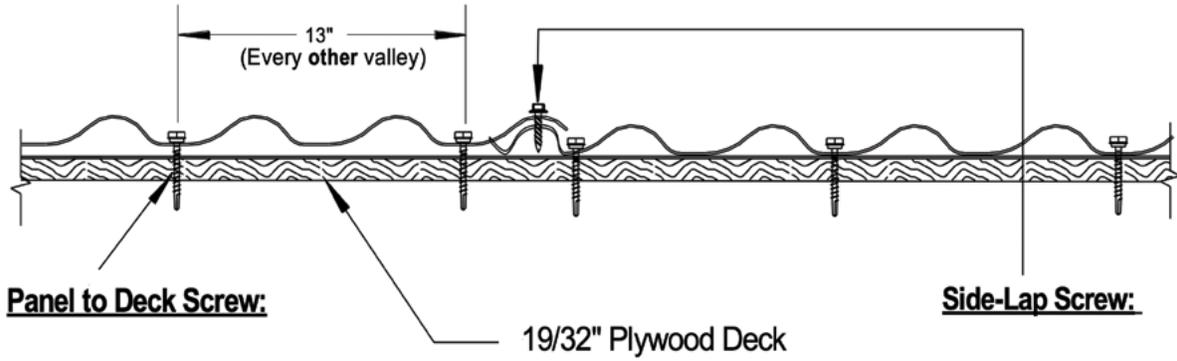
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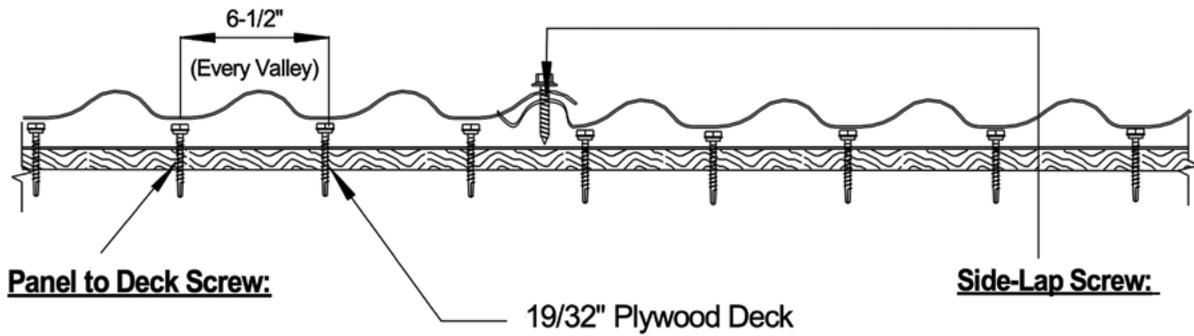
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S-TILE

Detail B



Detail C



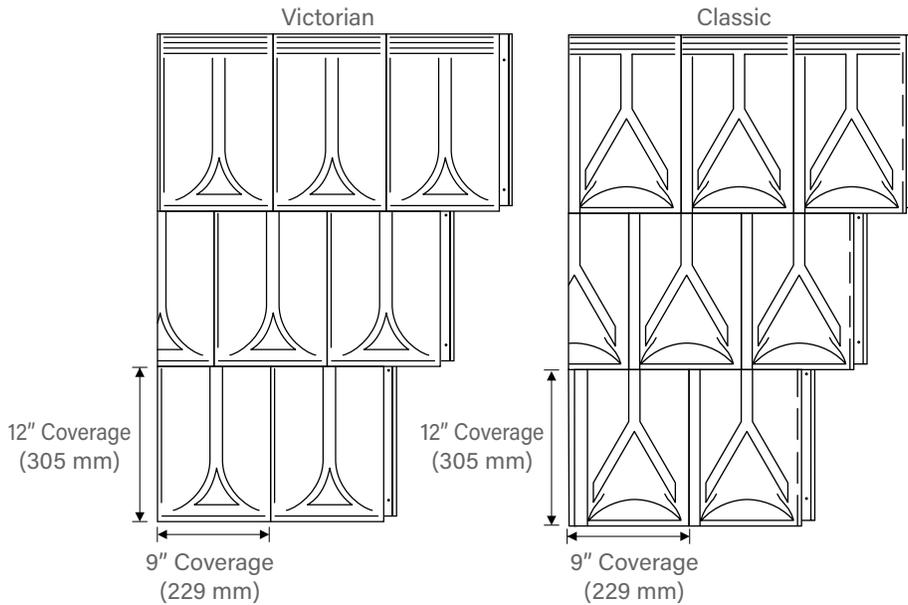
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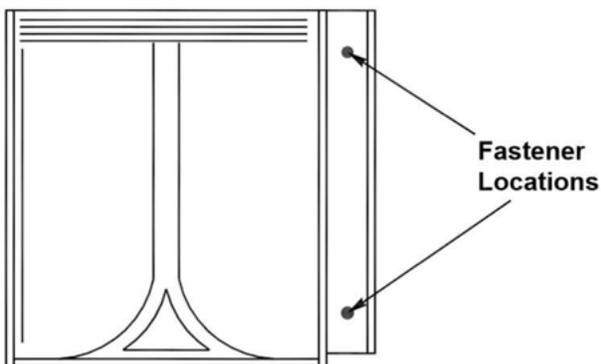


Plywood (Galvalume Substrate)						
Gauge of Panel	Sheathing (in)	Detail	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	15/32	A	#10-9	2	123.50	247
24	19/32	A	#10-9	2	131	262
24	1/2	B	#12 Panhead	2	118.50	237

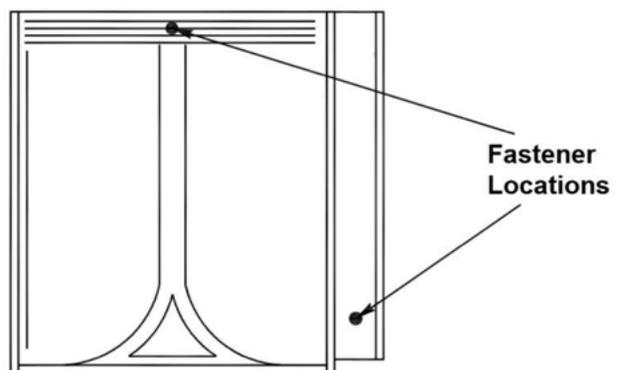
NOTES:

1) All test results determined through UL580/ UL1897 testing standards.

Detail A



Detail B



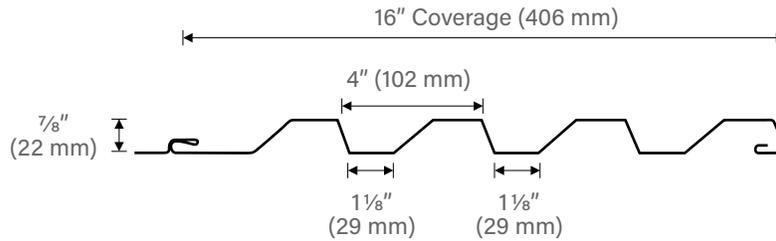
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HR-16 PANEL



Open Framing on 16 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	#10-16 Pancake	2	115	230
24	30	#10-16 Pancake	2	105	210
24	36	#10-16 Pancake	2	95	190
24	42	#10-16 Pancake	2	85	170
24	48	#10-16 Pancake	2	75	150
24	54	#10-16 Pancake	2	65	130
24	60	#10-16 Pancake	2	55	110
22	24	1/4-14 DP3	2	110	220
22	30	1/4-14 DP3	2	102.09	204.17
22	36	1/4-14 DP3	2	94.17	188.33
22	42	1/4-14 DP3	2	86.25	172.50
22	48	1/4-14 DP3	2	78.33	156.67
22	54	1/4-14 DP3	2	70.42	140.83
22	60	1/4-14 DP3	2	62.50	125

(Aluminum Substrate)

Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	24	1/4-14 Pancake DP3	2	78.05	156.09
0.032	30	1/4-14 Pancake DP3	2	68.94	137.88
0.032	36	#12-14 Fenderhead DP3	2	59.84	119.67
0.032	42	#12-14 Fenderhead DP3	2	50.73	101.46
0.032	48	#12-14 Fenderhead DP3	2	41.63	83.25

NOTES:

- 1) All test results determined through ASTM E1592 testing standards.

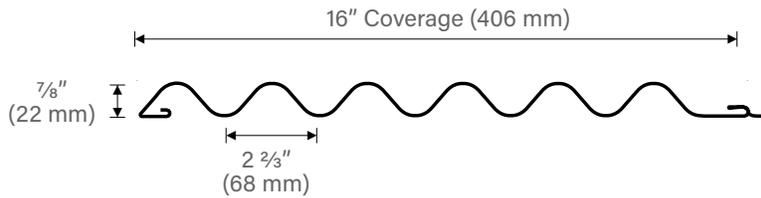
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HC-16 PANEL



Open Framing on 16 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	#12-14 Fenderhead T-3	2	135.3	270.6
24	30	#12-14 Fenderhead T-3	2	119	238.0
24	36	#12-14 Fenderhead T-3	2	102.75	205.5
24	42	#12-14 Fenderhead T-3	2	86.5	173.0
24	48	#12-14 Fenderhead T-3	2	70.25	140.5
24	60	#12-14 Fenderhead T-3	2	46.85	93.7
22	60	#12-14 Fenderhead T-3	2	62.45	124.9

(Aluminum Substrate)

Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	24	#12-14 Fenderhead T-3	2	62.45	124.9
0.032	24	#12-14 Fenderhead T-3	3	67.65	135.3
0.032	30	#12-14 Fenderhead T-3	3	59.20	118.4
0.032	36	#12-14 Fenderhead T-3	3	50.75	101.5
0.032	42	#12-14 Fenderhead T-3	3	42.25	84.5
0.032	48	#12-14 Fenderhead T-3	3	33.80	67.6
0.040	24	#12-14 Fenderhead T-3	3	93.65	187.3
0.040	30	#12-14 Fenderhead T-3	3	84.55	169.1
0.040	36	#12-14 Fenderhead T-3	3	75.45	150.9
0.040	42	#12-14 Fenderhead T-3	3	66.35	132.7
0.040	48	#12-14 Fenderhead T-3	3	57.25	114.5

NOTES:

- 1) All test results determined through ASTM E1592 testing standards.

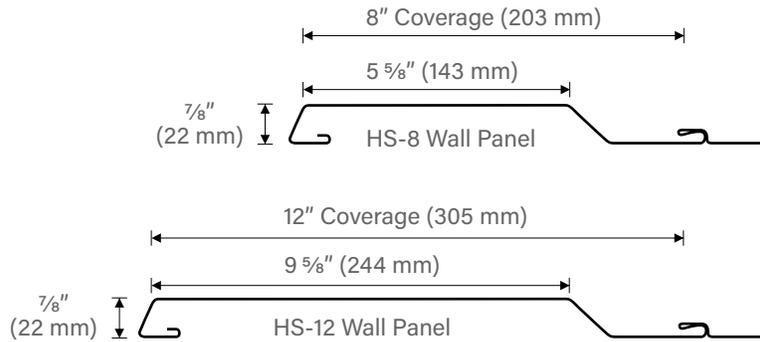
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HS-8 & HS-12 PANEL



Open Framing on 16 ga Steel Support (Galvalume Substrate)					
Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	#10-16 Pancake	2	166.30	332.60
24	30	#10-16 Pancake	2	149.41	298.82
24	36	#10-16 Pancake	2	132.52	265.03
24	42	#10-16 Pancake	2	115.63	231.25
24	48	#10-16 Pancake	2	98.73	197.47
24	54	#10-16 Pancake	2	81.84	163.68
24	60	#10-16 Pancake	2	64.95	129.90
22	60	#10-16 Pancake	2	72.77	145.54
(Aluminum Substrate)					
Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	24	#12-14 Fenderhead DP3	2	78.05	156.09
0.032 ²	24	#12-14 Fenderhead DP3	2	109.26	218.52

NOTES:

- 1) All test results determined through ASTM E1592 testing standards.
- 2) Results are for HS-8 wide panel only.

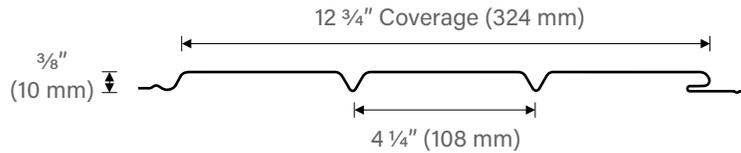
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VEE-PANEL



Vee-Panel Section Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	S_x (in ³ /ft)	M_A (in*K/ft)
Panel Width	12 3/4"	12 3/4"	12 3/4"
Positive Bending	0.00395	0.0166	0.397
Negative Bending	0.00451	0.0156	0.374

Recommended Load in PSF

Panel Weight= 1.4 psf

Span (ft)	Positive Wind Load			Negative Wind Load		
	1-Span	2-Span	3-Span	1-Span	2-Span	3-Span
Panel Width	12 3/4"	12 3/4"	12 3/4"	12 3/4"	12 3/4"	12 3/4"
1.0	265	249	291	249	265	309
1.5	77d	111	129	88d	118	137
2.0	32d	62	65d	37d	66	65d

Notes:

- 1) All loads meet L/240 Deflection Criteria. (d) Deflection governs allowables.
- 2) Values based on 2007 AISI specifications.
- 3) Positive load direction is towards panel face.
- 4) Negative load direction is away from panel face.
- 5) Evaluation of fastener pull-out is required with the use of this chart.

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THIN LINE



Open Framing on 24 ga Steel Support (Galvalume Substrate)					
Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	#10 Pancake SD	1	153	306

NOTES:

- 1) For use with 3 or more spans.
- 2) All test results determined through ASTM E330 testing standards.

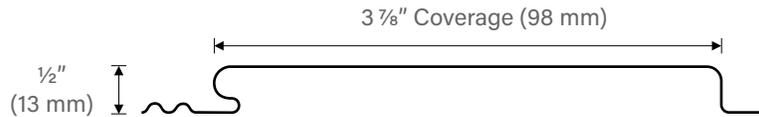
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FLUSH SEAM PANEL



Flush Seam Panel Section Properties Based on 24 Gauge 40 K.S.I.

	DL _x (in ⁴ /ft)	M _A (ft*lbs/ft)	V _A (lbs)
Positive Bending	0.01206	79.8	516
Negative Bending	0.01323	64.8	516

NOTES:

- 1) Values based on 1996 edition of AISI and good engineering practice.

Recommended Load in PSF

Panel Weight = 1.4 psf

Span (ft)	Net Vertical Live Load			Net Vertical Wind Uplift		
	1-Span	2-Span	3-Span	1-Span	2-Span	3-Span
2'-6"	90	90	90	83	90	90
2'-8"	83	90	90	73	90	90
3'-0"	58	75	87	58	90	60
3'-6"	35	55	65	40	68	76d
4'-0"	25	42	47d	27	52	51d
4'-6"	17	34	32d	19	41	36d
5'-0"	12	27d	24d	12	33	26d
5'-6"		22d	18d		25d	20d
6'-0"		17d	14d		19d	15d

Notes:

- 1) All loads meet L/240 Deflection Criteria. (d) Deflection governs allowables.
- 2) Wind Load Allowable Stresses increased by 33%
- 3) Values based on 1996 edition of AISI and good engineering practice.
- 4) Evaluation of fastener pull-out is required with the use of this chart.

Open Framing on 24 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	24	#10 Pancake SD	1	121	242.00

NOTES:

- 1) For use with 3 or more spans.
- 2) All test results determined through ASTM E330 testing standards.

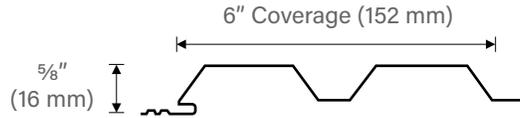
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B-6 PANEL



Recommended Load (PSF)			
Panel Weight = 1.30 psf			
Span (ft)	Positive Wind Load		
	1-Span	2-Span	3-Span
2'-6" to 3'-0"	90	90	90
3'-6"	74d	82	90
4'-0"	50d	63	74
4'-6"	35d	50	58
5'-0"	25d	40	47d
5'-6"	19d	34	35d
6'-0"	15d	28	28d

NOTES:

- 1) All loads meet L/240 Deflection Criteria. (d) Deflection governs allowables.
- 2) Wind Load Allowable Stresses increased by 33%.
- 3) Values based on 1996 edition of AISI and good engineering practices.
- 4) Evaluation of fastener pull-out is required with the use of this chart.

Open Framing on 24 ga Steel Support (Galvalume Substrate)					
Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	36	#10 Pancake SD	1	176.5	353

NOTES:

- 1) All test results determined through ASTM E330 testing standards.

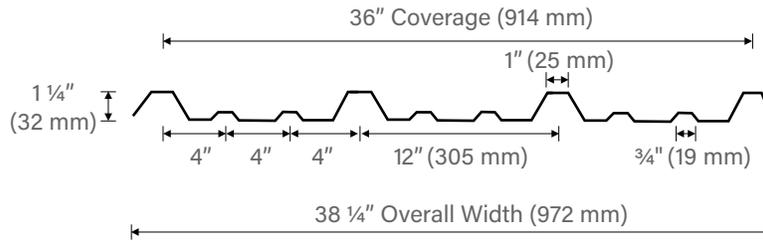
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R-PANEL



R- Panel Section Properties Based on 24 Gauge 40

K.S.I.

	I_x (in ⁴ /ft)	S_x (in ³ /ft)	M_A (in*kip/ft)
Positive Bending	0.0554	0.0575	1.38
Negative Bending	0.0536	0.0567	1.36

NOTES:

- 1) Values based on the 2007 edition of AISI.
- 2) Values shown above are for the panel alone.

Recommended Load (psf)

Panel WT = 1.3 psf

Span (ft)	Net Vertical Dead + Live Load						Net Vertical Wind Uplift					
	1-Span		2-Span		3-Span		1-Span		2-Span		3-Span	
	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)
3.0	101	134	99	319	116	250	102	130	103	319	120	250
4.0	56	57	55	134	65	105	58	55	59	134	68	105
5.0	36	29	35	69	41	54	37	28	38	69	44	54

NOTES:

- 1) The panel weight has been deducted from the allowable stress value.
- 2) The values shown above are for the panel alone.
- 3) Values based on the 2007 edition of AISI.

Open Framing on 16 ga Steel Support

(Galvalume Substrate)

Gauge of Panel	Detail	Construction No.	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	A	30	60	#14 HWH	1	52.50	105
24	B	161	60	#12-14 HWH	1	52.50	105
24	B	79	60	#14 HWH	1	52.50	105

NOTES:

- 1) All results determined through UL90 Construction #30, 79, and 161 Certifications.
- 2) All fasteners to be longlife fasteners with noeprene washers.
- 3) Stitch fasten panels together using (1) 12-14 Hex-head Self-drilling fastener @ 20" on center.

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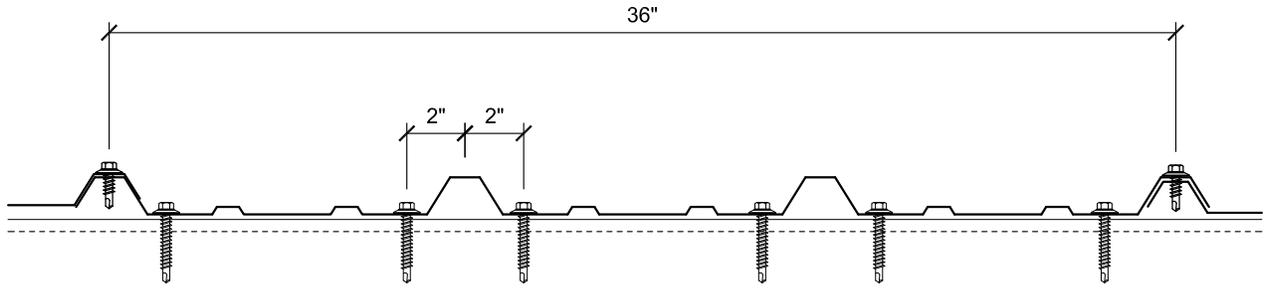
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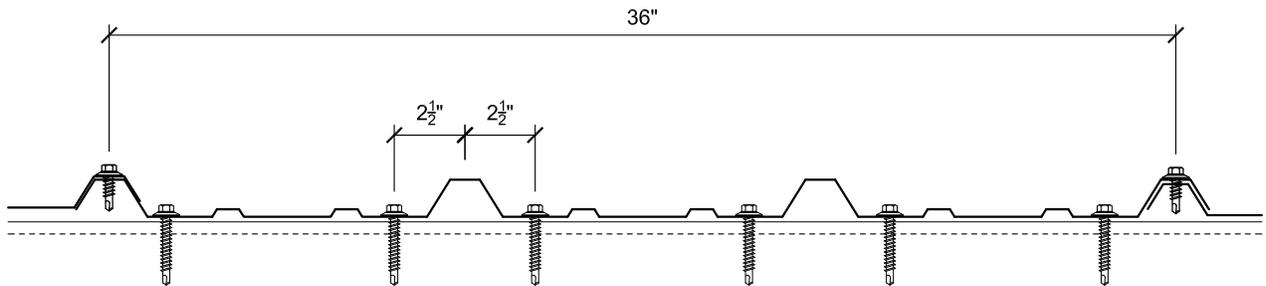
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R-PANEL

Detail A



Detail B



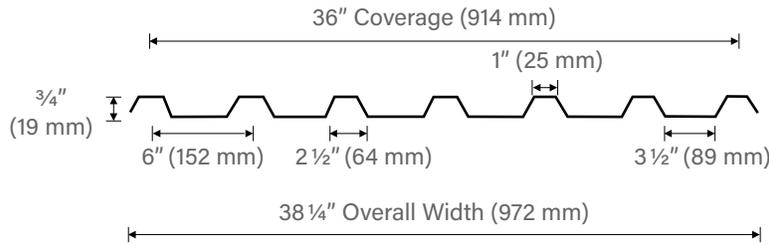
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M-PANEL



M-Panel Section Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	S_x (in ³ /ft)	M_A (in*kip/ft)
Positive Bending	0.0279	0.0537	1.29
Negative Bending	0.0228	0.0494	1.18

NOTES:

- 1) Values based on the 2007 edition of AISI.
- 2) Values shown above are for the panel alone.

Recommended Load (psf)

Panel WT = 1.3 psf

Span (ft)	Net Vertical Dead + Live Load						Net Vertical Wind Uplift					
	1-Span		2-Span		3-Span		1-Span		2-Span		3-Span	
	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)	Stress	Defl (L/240)
3.0	94	68	87	148	101	116	89	55	97	148	113	116
4.0	53	29	48	63	56	49	50	23	55	63	64	46
5.0	33	15	30	32	36	25	33	12	35	32	41	25

NOTES:

- 1) The panel weight has been deducted from the allowable stress value.
- 2) The values shown above are for the panel alone.
- 3) Values based on the 2007 edition of AISI.

Open Framing on 16 ga Steel Support

(Galvalume Substrate)

Gauge of Panel	Detail	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	A	60	#12-14 HWH	1	52.50	105

NOTES:

- 1) All results determined through UL90 Construction #39 Certification.
- 2) All fasteners to be longlife fasteners with noeprene washers.
- 3) Stitch fasten panels together using (1) 12-14 Hex-head Self-drilling fastener @ 12" on center.

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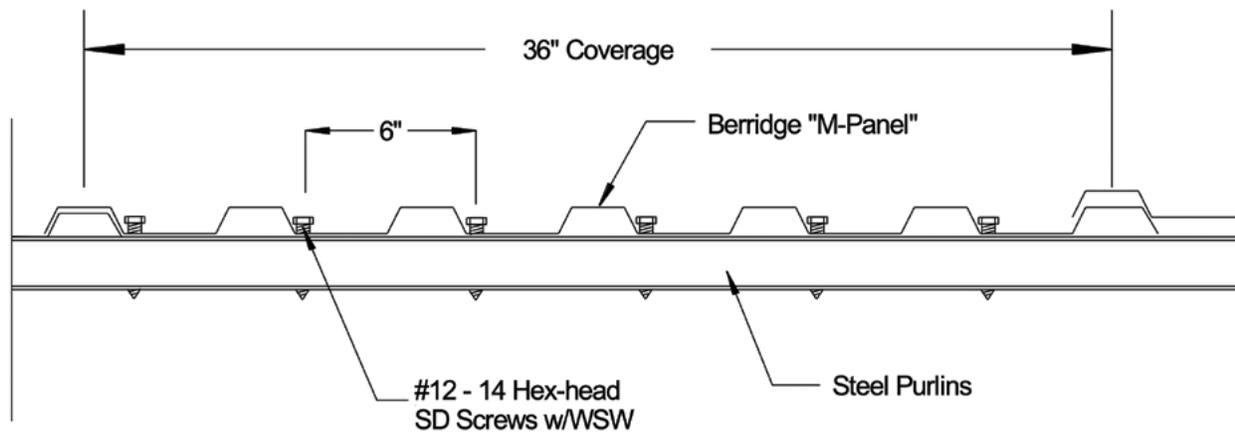
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M-PANEL

Detail A



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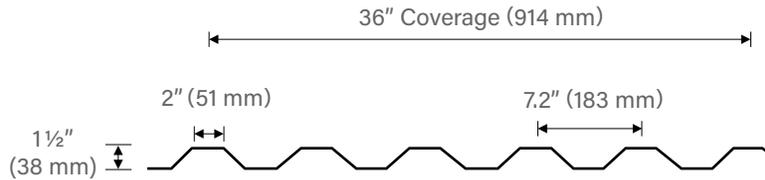
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DEEP DECK PANEL



Deep Deck Section Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	M_A (in-kip/ft)	S_x (in ³ /ft)
Top in Compression	0.1073	2.92	0.1218
Bottom in Compression	0.1073	2.92	0.1218

NOTES:

- 1) Values based on 2001 edition of AISI.

Open Framing on 16 ga Steel Support (Galvalume Substrate)

Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	30	1/4-14 HWH	1	182	364
24	36	1/4-14 HWH	1	165.60	331.20
24	42	1/4-14 HWH	1	149.20	298.40
24	48	1/4-14 HWH	1	132.80	265.60
24	54	1/4-14 HWH	1	116.40	232.80
24	60	1/4-14 HWH	1	100	200
24	60	1/4-14 HWH	2	110	220
22	60	1/4-14 HWH	2	160	320

(Aluminum Substrate)

Gauge of Panel	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	48	#12-14	2	119.65	239.30

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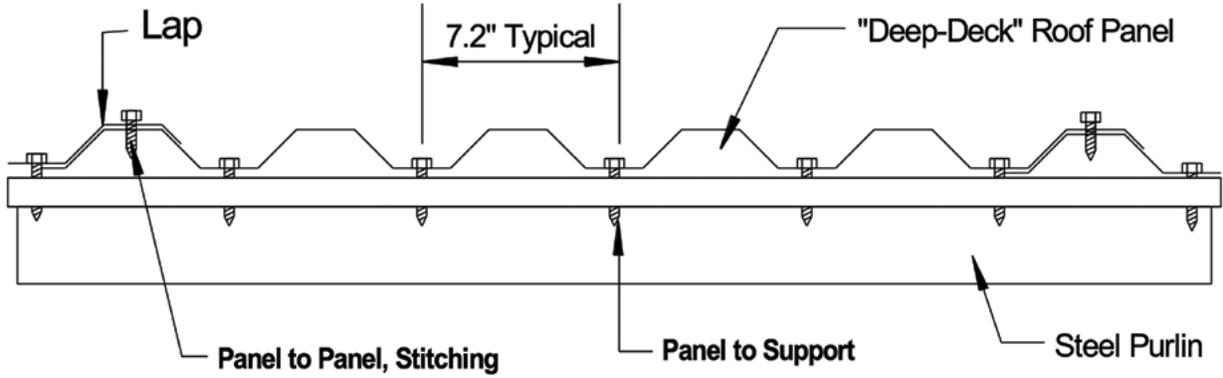
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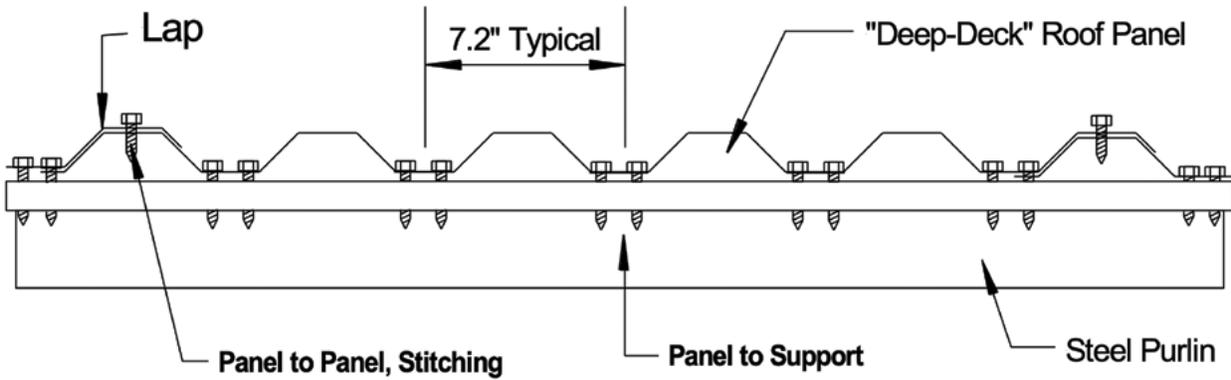
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DEEP DECK PANEL

Detail A



Detail B



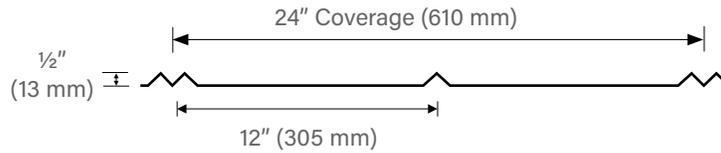
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DOUBLE-RIB PANEL



Double-Rib Panel Properties Based on 24 Gauge 40 K.S.I.

	I_x (in ⁴ /ft)	S_x (in ³ /ft)	M_A (in-kip/ft)
Top in Compression	0.0021	0.0055	0.13
Bottom in Compression	0.0017	0.0049	0.12

NOTES:

- 1) Values based on 2001 edition of AISI.
- 2) Values based on panel only.

15/32" Plywood

(Galvalume Substrate)

Gauge of Panel	Detail	Spacing (in)	Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	A	12	#14-10 HWH Type A	1	131	262
24	B	12	#14-10 HWH Type A	1	138.50	277
24	B	14	#14-10 HWH Type A	1	128.50	257
24	B	16	#14-10 HWH Type A	1	118.50	237
24	B	18	#14-10 HWH Type A	1	108.50	217
24	B	20	#14-10 HWH Type A	1	98.50	197
24	B	22	#14-10 HWH Type A	1	88.50	177
24	B	24	#14-10 HWH Type A	1	78.50	157

NOTES:

- 1) All test results determined through UL580 testing standards.
- 2) **All** fasteners to be longlife fasteners with neoprene washers.

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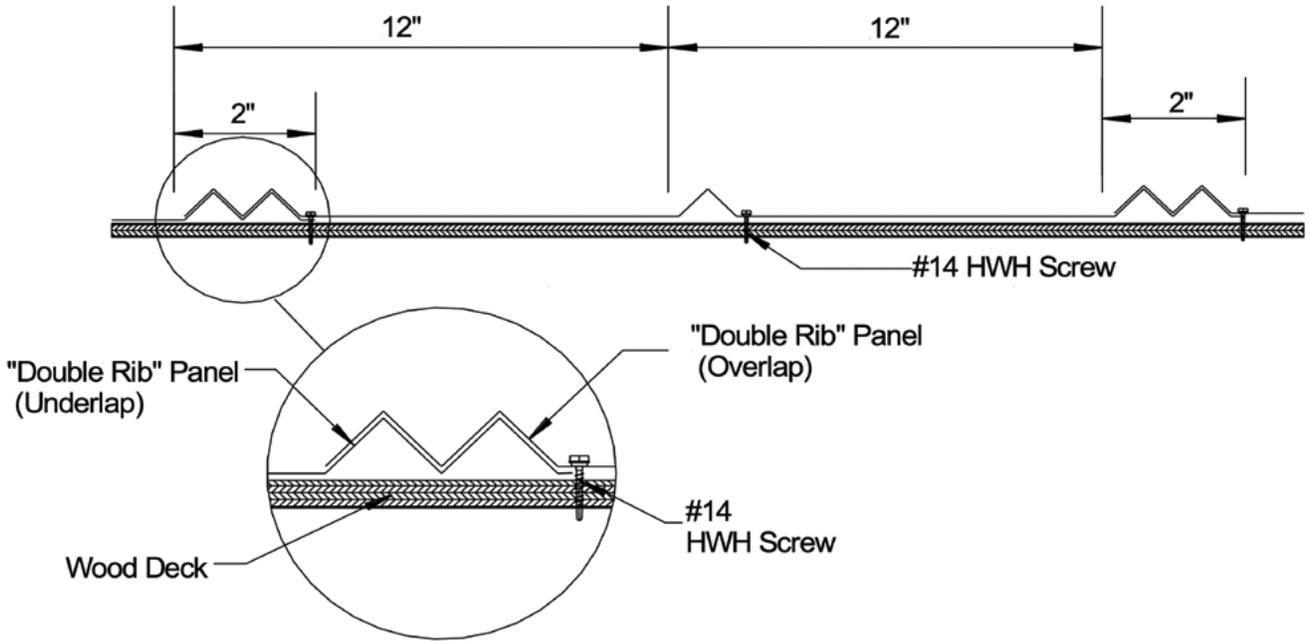
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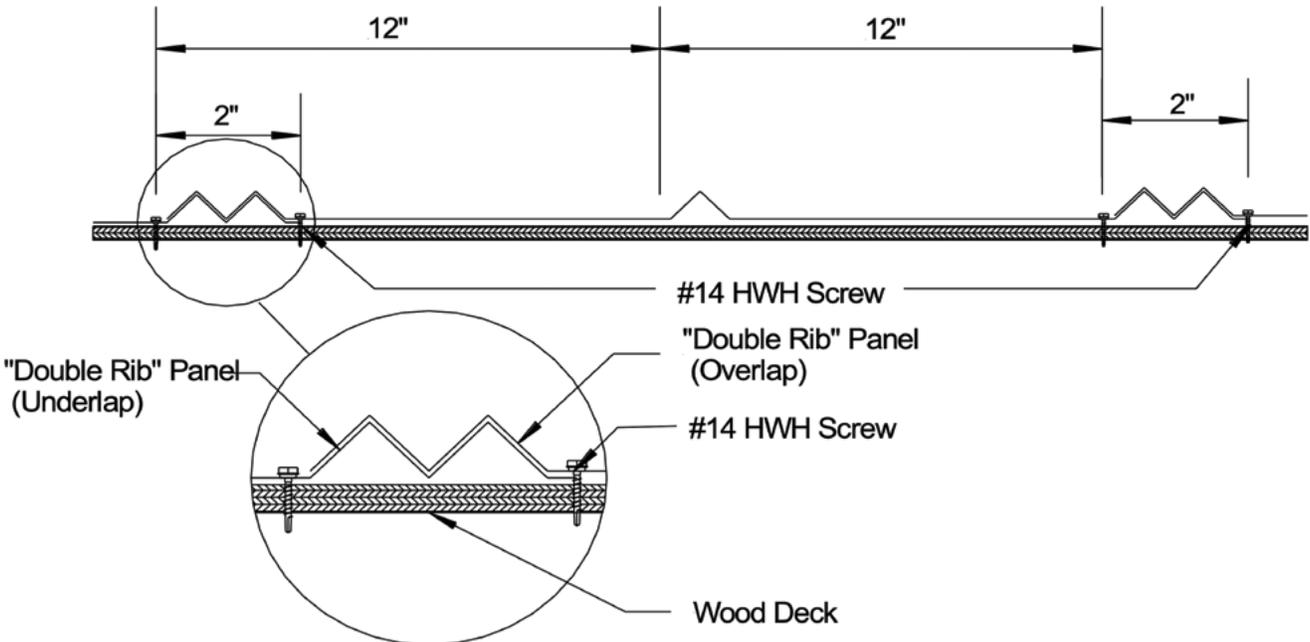
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DOUBLE-RIB PANEL

Detail A



Detail B



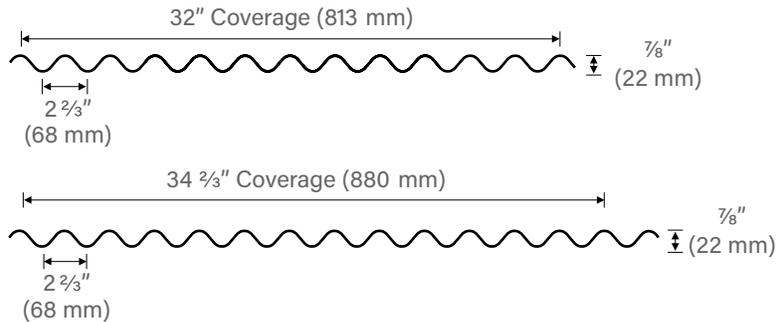
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S-DECK PANEL



S-Deck Section Properties Based on 24 Gauge 40 K.S. I.

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)
Top in Compression	0.0326	144.9
Bottom in Compression	0.0326	144.9

NOTES:

- 1) Values based on 1996 Edition of AISI.

S-Deck Section Properties Based on 22 Gauge 40 K.S. I.

	I_x (in ⁴ /ft)	M_A (ft*lbs/ft)
Top in Compression	0.0408	180
Bottom in Compression	0.0408	180

NOTES:

- 1) Values based on 2007 Edition of AISI.

Open Framing on 16 ga Steel Support

(Galvalume Substrate)

Gauge of Panel	Detail	Spacing (in)	Panel Fastener	Stitch Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
24	A	30	#12-14 HWH	#12-14 HWH	1	190	380
24	A	36	#12-14 HWH	#12-14 HWH	1	167.50	335
24	B	42	#12-14 HWH	#12-14 HWH	1	145	290
24	B	48	#12-14 HWH	#12-14 HWH	1	122.50	245
24	B	54	#12-14 HWH	#12-14 HWH	1	100	200
24	B	60	#12-14 HWH	#12-14 HWH	1	77.50	155

(Aluminum Substrate)

Gauge of Panel	Detail	Spacing (in)	Panel Fastener	Stitch Fastener	Fastener Quantity	Allowable (psf)	Ultimate (psf)
0.032	A	48	#12-14 HWH	1/4-14 HWH	1	83.25	166.50

NOTES:

- 1) All test results determined through ASTM E1592 testing standards.
- 2) All fasteners to be longlife fasteners with neoprene washers.
- 3) Stitch fasten panels together @ 12" on center.

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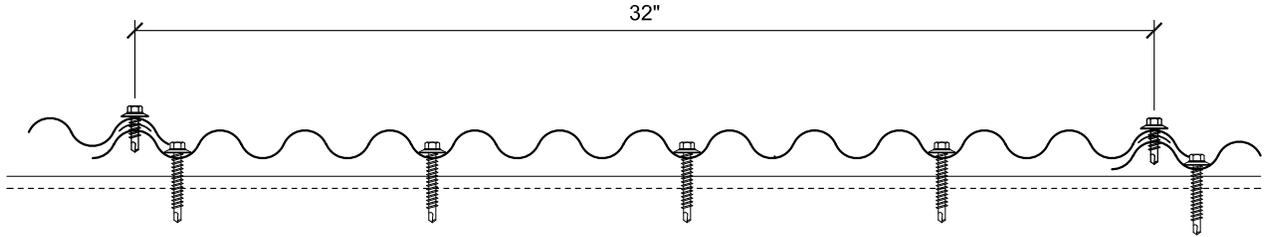
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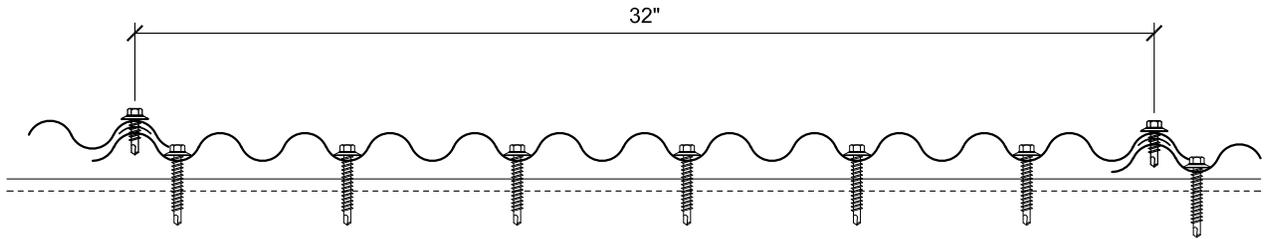
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S-DECK PANEL

Detail A



Detail B



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