UL Product iQ®

UL Solutions

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Roofing Systems

COMPANY

ENGLERT INC

1200 Amboy Ave
Perth Amboy, NJ 08861-1920 United States

R18970

OTHER SYSTEMS

Class A

1. **Deck:** C-15/32 or spaced sheathing **Incline:** Unlimited **Impact:** 4

Underlayment: — One layer GAF "VersaShield Underlayment", mechanically fastened.
Ply Sheet: — One layer Type 30 base sheet or GAF "VersaShield", mechanically fastened.
Panels: — Steel roofing panels designated "Series 1000", "Series 1100", "Series 1120", "Series 1300", "Series 1300(TCSII)", "Series 1500", "Series 2000", "Series 2400", "Series 2500", "Series 1301" or "Metalman 900HS", or zinc or copper roofing panels designated "Series 1300", mechanically fastened.

2. **Deck:** C-15/32 or spaced sheathing **Incline:** Unlimited **Impact:** 4

Underlayment: — One or more plies GAF "VersaShield Underlayment" mechanically fastened.
Panels: — Steel roofing panels designated "Series 1000", "Series 1100", "Series 1120", "Series 1300", "Series 1300(TCSII)", "Series 1500", "Series 2000", "Series 2400", "Series 2500", "Series 1301" or "Metalman 900HS", or zinc or copper roofing panels designated "Series 1300", mechanically fastened.

3. **Deck:** C-15/32 **Incline:** Unlimited **Impact:** 4

Barrier Board: — Minimum 1/4 in. thick. Georgia-Pacific Gypsum LLC "DensDeck® Roofboard" or "DensDeck Prime® Roofboard" or "DensDeck DuraGuard™ Roofboard" with all butt joints staggered a minimum of 6-in. from the plywood roof deck butt joints.
Insulation (Optional): — Fiberglass, polyisocyanurate, perlite or wood fiber, any thickness.
Membrane: — Any UL Classified modified bitumen system, BUR system or CPE, CSM, CSPE, EPDM, NBP, PIB, PVC, TPO or TRE membrane system suitable for use with any roof insulation.
Panels: — Steel roofing panels designated "Series 1000", "Series 1100", "Series 1120", "Series 1300", "Series 1300(TCSII)", "Series 1500", "Series 2000", "Series 2400", "Series 2500", "Series 1301" or "Metalman 900HS", or zinc or copper roofing panels designated "Series 1300", mechanically fastened.

4. **Deck:** C-15/32 **Incline:** Unlimited

Underlayment: — Two or more plies GAF "VersaShield® Fire-Resistant Roof Deck Protection" or GAF "VersaShield® Underlayment" mechanically fastened.
Panels: — Steel roofing panels designated "Series 1000", "Series 1100", "Series 1120", "Series 1300", "Series 1300(TCSII)", "Series 1500", "Series

2000", "Series 2400", "Series 2500", "Series 1301" or "Metalman 900HS", or aluminum roofing panels designated "Series 2000", "Series 1100", "Series 1300", "Series 1120", "Series 1301", "Metalman 900HS", "Series 1500", "Series 2400", or "Series 2500", minimum 0.032 inches thick, mechanically fastened.

5. **Deck:** C-15/32 **Incline:** Unlimited

Underlayment: — One or more plies GAF "VersaShield® Solo™ Fire Resistant Slip Sheet", mechanically fastened.
Panels: — Steel roofing panels designated "Series 1000", "Series 1100", "Series 1120", "Series 1300", "Series 1300(TCSII)", "Series 1500", "Series 2000", "Series 2400", "Series 2500", "Series 1301" or "Metalman 900HS", or aluminum roofing panels designated "Series 2000", "Series 1100", "Series 1300", "Series 1120", "Series 1301", "Metalman 900HS", "Series 1500", "Series 2400", or "Series 2500", minimum 0.032 inches thick, mechanically fastened.

6. **Deck:** NC **Incline:** Unlimited

Insulation: — Any UL Classified polyisocyanurate, any thickness.
Base Sheet: — One ply "Polystick MTS", "Polystick MTS Plus", "Polystick MU-X", "Polystick XFR", "Polystick® IR-Xe", or "PolyVap SA G" self-adhered or "Elastobase V" or "PolyAnchor UDL 40" mechanically fastened.
Panels: — Steel roofing panels designated "Series 2000", "Series 2400", "Series 2500", "Series 1100", "Series 1300", "Series 1300" (TCSII), "Series 1120", "Series 1500", "Series 1000", "Series 1301", or "Metalman 900HS", 26 gauge minimum or copper roofing panels designated "Series 1300", mechanically fastened.

7. **Deck:** C-15/32 or spaced sheathing **Incline:** Unlimited **Impact:** 4

Underlayment: — One ply "Polystick XFR" self-adhered.
Insulation (Optional): — Any UL Classified polyisocyanurate, perlite, wood fiber or polyisocyanurate/perlite board, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.
Panels: — Steel roofing panels designated "Series 2000", "Series 2400", "Series 2500", "Series 1100", "Series 1300", "Series 1300" (TCSII), "Series 1120", "Series 1500", "Series 1000", "Series 1301", or "Metalman 900HS", 26 gauge minimum or copper roofing panels designated "Series 1300", mechanically fastened.

8. **Deck:** C-15/32 or spaced sheathing **Incline:** Unlimited

Base Sheet (Optional): — Minimum one ply Type 15 or Type 30 asphalt saturated felt or Type G1 or Type G2 asphalt saturated glass mat or "Elastobase V" or "PolyAnchor UDL 40" mechanically fastened or "Polystick MTS", "Polystick MTS Plus", "Polystick MU-X", "Polystick® IR-Xe", or "PolyVap SA G" self-adhered.
Underlayment: — Two plies "Polystick XFR" self-adhered.
Insulation (Optional): — Any UL Classified polyisocyanurate, perlite, wood fiber or polyisocyanurate/perlite board, any thickness mechanically fastened or adhered with any UL Classified insulation adhesive.
Panels: — Aluminum roofing panels designated "Series 2000", "Series 1100", "Series 1300", "Series 1120", "Series 1301", "Metalman 900HS", "Series 1500", "Series 2400", or "Series 2500", minimum 0.032 inches thick, mechanically fastened.

Class B

1. **Deck:** C-15/32 **Incline:** Unlimited

Underlayment: — One or more plies GAF "VersaShield® Fire-Resistant Roof Deck Protection" or GAF "VersaShield® Underlayment", mechanically fastened.
Panels: — Steel roofing panels designated "Series 1000", "Series 1100", "Series 1120", "Series 1300", "Series 1300(TCSII)", "Series 1500", "Series 2000", "Series 2400", "Series 2500", "Series 1301" or "Metalman 900HS", or aluminum roofing panels designated "Series 2000", "Series 1100", "Series 1300", "Series 1120", "Series 1301", "Metalman 900HS", "Series 1500", "Series 2400", or "Series 2500", minimum 0.032 inches thick, mechanically fastened.

Last Updated on 2023-08-23

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590, F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Metal Roofing Suppliers, LLC
721 W. 25 Street
Hialeah, FL 33012

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas, where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Englert Series 1300 Steel Panel (2 in Clips and 6 in Clips) over Wood Deck

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 5.
The submitted documentation was reviewed by Rafael Macedo.

Rafael Macedo
03/27/25

MIAMI-DADE COUNTY APPROVED

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Metal, Panels (Non-Structural)
Materials: Steel
Deck Type: Wood
Maximum Design Pressure **–165.00 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Series 1300	Length: various Width: 16" Thickness 0.024" (24ga) Min. Yield Strength: 57 ksi.	TAS 125	Corrosion resistant, galvalume, preformed, standing seam. Coated, pre-finished, metal panels.
2" Clip	Length: 2" Width: 1" Height:1-9/16" Thickness 0.020"	TAS 125	Corrosion resistant, galvalume, preformed, coated, pre-finished, metal clips for use in Field or Perimeter and Corner Area of Roof.
6" Clip	Length: 6 ¼" Width: 1" Height: 1.65" Thickness 0.0276	TAS 125	Corrosion resistant, galvalume, preformed, coated, pre-finished, metal clips for use in Perimeter and Corner Areas of Roof.
Trim Pieces	Length: varies Width: varies Thickness 0.0276".	N/A	Corrosion resistant, galvalume, preformed, coated, pre-finished, trim pieces.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Morton International	AS-0286-91L	Salt Spray ASTM B 117	Feb. 1986
	AS-0286-91T	Accelerated Weathering ASTM G 23	Feb. 1986
Architectural Testing Inc.	01-32797.01	TAS 100	Nov. 1998
	01-32797.03	ASTM E 8	Nov. 1998
Hurricane Test Laboratory, LLC.	0155-0615-05	TAS 125	Feb. 2006
Architectural Testing	92270.01-109-18	TAS 125	October. 2009
Intertek	G5733.01-106-18	TAS 114 App G	01/05/17

APPROVED ASSEMBLIES:

System A-1:	Series 1300 Panel 16" Wide
Deck Type:	Wood, Non-Insulated
Deck Description:	New Construction $^{19}/_{32}$" or greater plywood or wood plank.
Slope Range:	2": 12" or greater (1":12" effective w/2020 FBC 7th Edition)
Maximum Uplift Pressure:	**See Table A below**

Deck Attachment: In accordance with applicable building code, but in no case shall it be less than # 8d annular ring shank nails spaced 6" o.c. In reroofing, where the deck is less than $^{19}/_{32}$" thick (Minimum $^{15}/_{32}$") the above attachment method must be in addition to existing attachment.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with corrosion resistant tin-caps and 12 gauge 1 ¼" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll. Or, any approved underlayment having a current NOA.

Fire Barrier Board: Any approved fire barrier having a current NOA. Refer to a current fire directory listing for fire ratings of this roofing system assembly as well as the location of the fire barrier within the assembly. See Limitation # 1.

Valleys: Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with Englert's current published installation instructions.

Metal Panels and Accessories: Install the "Series 1300 Panel" and accessories in compliance with the current published installation instructions and details in Englert's Installation Manual. Flashings, penetrations, valley construction and other details shall be constructed in compliance with Roofing Application Standard RAS 133.

Panels shall be installed with approved Panel Clips located at each panel rib side lap spaced at a maximum, listed in **Table A** below, parallel to roof slope, fastened with #10 wafer head spoiler tip corrosion resistant screws of sufficient length to penetrate through the sheathing a minimum $^{3}/_{16}$ of an inch. Use 2 screws for the 2" clip and use 4 screws for the 6" clip.

Standing seams shall be mechanically seamed to a 90° degree seam, (single lock).

TABLE A
MAXIMUM DESIGN PRESSURES

Roof Areas	Field	Perimeter and Corner[1]	Perimeter and Corner[1,2]
Maximum Design Pressures	**–69.25 psf**	**–106.75 psf**	**–165.00 psf**
Maximum Clip Spacing	**24" o.c.**	**12" o.c.**	**12" o.c.**
Clip Size	**2" Clip**	**2" Clip**	**6" Clip**

1. Extrapolation shall not be allowed
2. Place a bead of Bostik 70-05A sealant in the lateral seams prior to seaming.

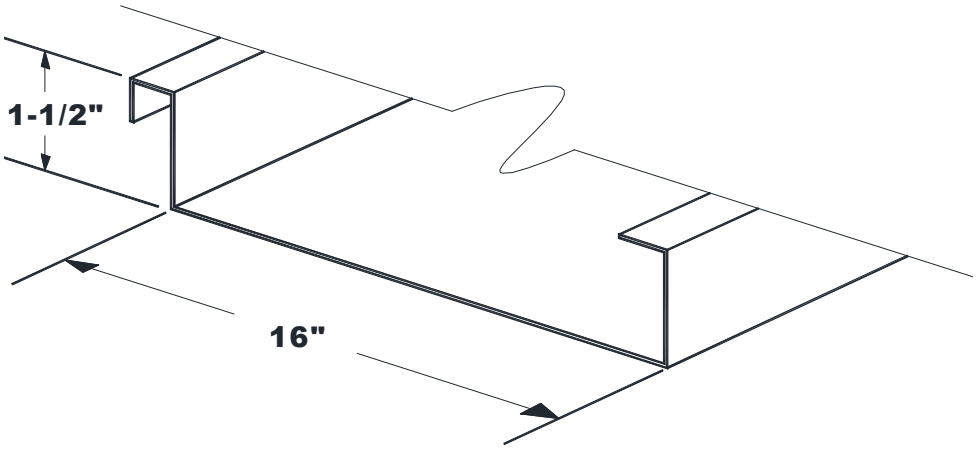
SYSTEM LIMITATIONS

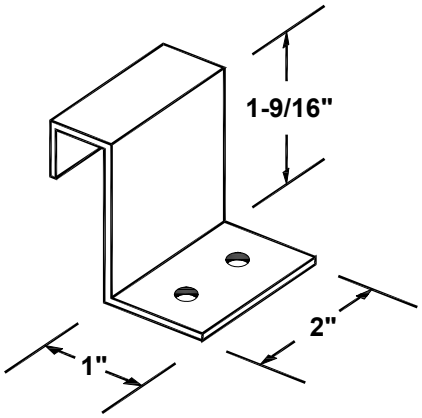
1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e., field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e., perimeters, extended corners and corners).
3. Panels may be rolls formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Roofing Application Standard RAS 133
4. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below. All clips shall be permanently labeled with the manufacturer's name and/or logo, and/or model.

MIAMI-DADE COUNTY APPROVED

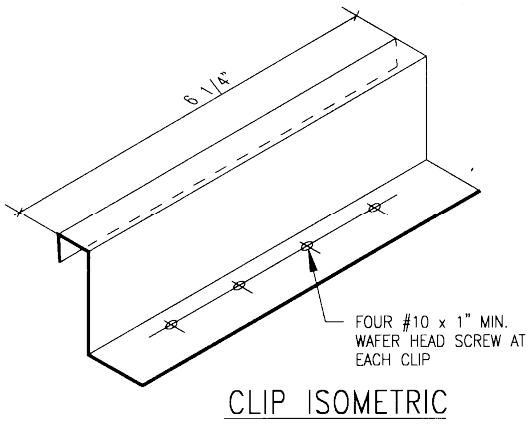
5. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule **61G20-3** of the Florida Administrative Code.
6. Panels may be jobsite roll formed with machine model #('s) **05.21.05**, **11.19.01**, and **6440323** from Englert Rollformed Products Association.

PROFILE DRAWINGS

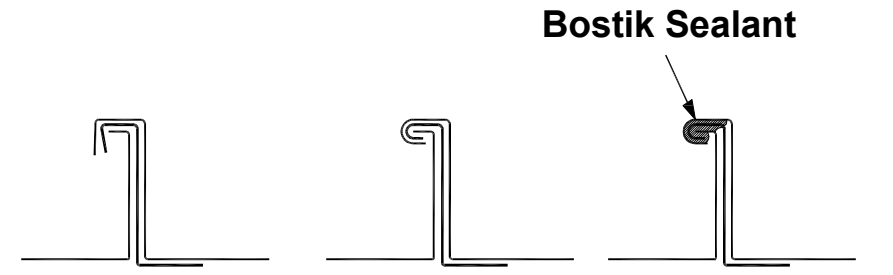




2" CLIP DETAIL
(FIELD AND PERIMETER AND CORNER OPTION)



(PERIMETER AND CORNER OPTION)

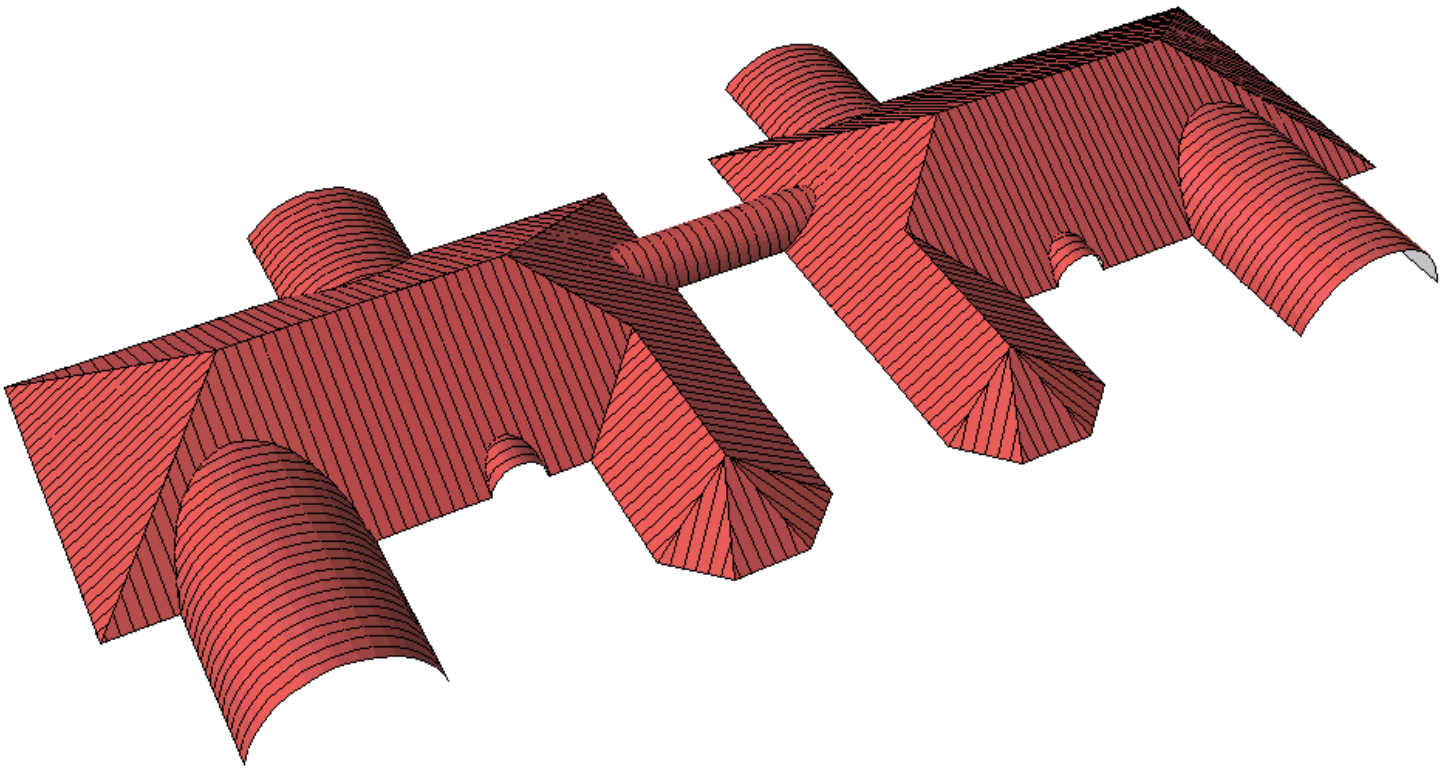


SERIES 1300 PANEL SYSTEM

END OF THIS ACCEPTANCE

INSTALLATION GUIDE

ENGLERT SERIES 1300 OVER WOOD DECKS



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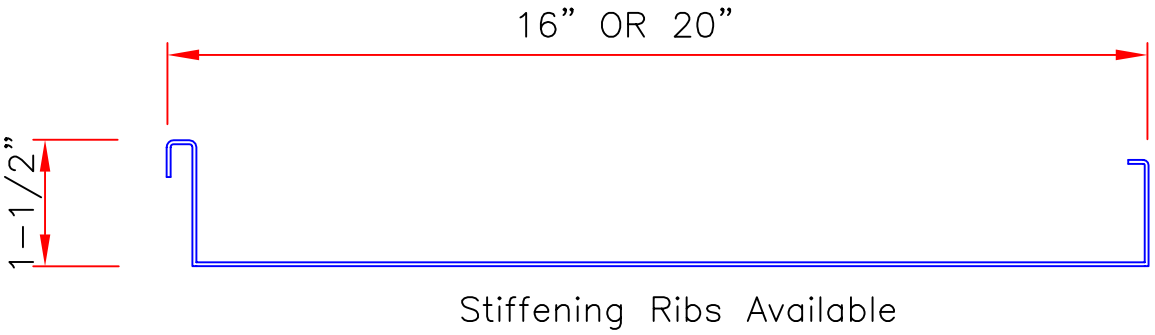
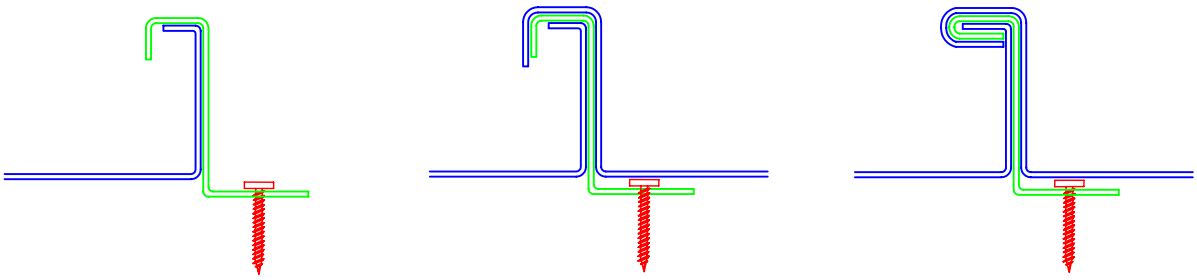
INTRODUCTION

The Series 1300 System consists of 1-1/2" High Architectural Panels which are available in: 24 GA. Steel and 0.032" Aluminum in a variety of finishes.



The three drawings below illustrate the seaming process. Starting with *Step 1,* clips are installed over the male leg and fastened to the substrate. *Step 2* involves the female leg of the adjoining panel to then be set on the male leg/clip assembly. *Step 3* involves the panels to be seamed, with either a mechanical or hand seamer. The seam shown is a 90 degree seam or "Single Lock". A 180 degree seam or "Double Lock" seam is optional. This type of seam is typically required where high wind loads are needed. Data from extensive wind uplift tests is available for different alloys.



Step 1 *Step 2* *Step 3*

TESTS

1) ASTM E 1680-95 Air Filtration Test
2) ASTM E 1646-95 Water Penetration Test
3) UL-580 Classification Report
4) ASTM E 1592 Structural Test Report

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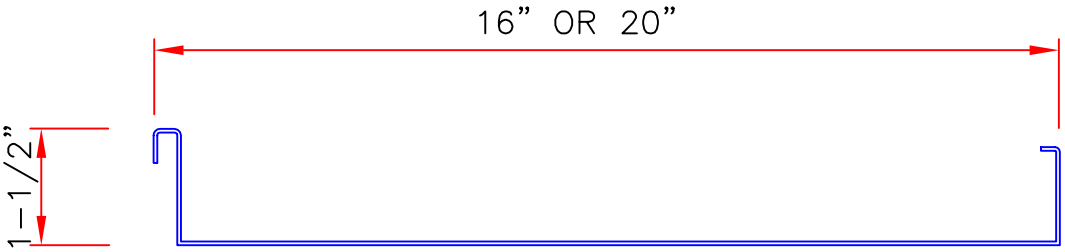
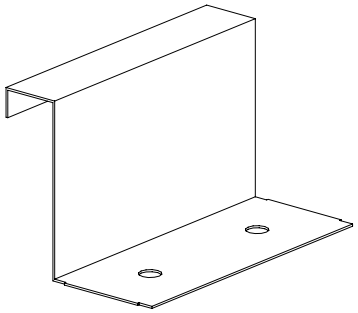


Stiffening Ribs Available

SERIES 1300 PANEL
Panel Profile



SERIES 1300 PANEL
Fixed Panel Clip
(Expansion Clips Available upon request / not shown here)

AVAILABILITY

	GALVALUME PLUS	GALVALUME PC3500	G-90 PC3500	ALUMINUM PC3500
22 GA.				
24 GA.	●	●	●	
.032"				
.040"				●

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SAFETY PRECAUTIONS

Follow all OSHA safety practices and regulations**.**

Extreme care should be taken when unloading, handling and installing metal roofs. Material may be heavy and bulky; metal edges may be sharp; and working at heights is dangerous.

The installer should wear heavy duty gloves and a long sleeve shirt when handling metal items as they may be sharp and can cause severe cuts. Safety goggles should be worn when cutting and drilling metal items or installing fasteners.

Proper fall protection should be used when working on the roof. The installer should be extra careful when on the roof as panels can be slippery when wet or oily.

FIELD CUTTING METAL

It is recommended that only snips, nibblers or electric powered shears be used. Cut panels with the bottom side up in order to avoid cuttings from contacting the finished surface of the panel. Panels should be immediately brushed clean after cutting to remove any shavings. Follow the safety recommendations of the tool manufacturer.

Goggles, heavy duty gloves and long sleeves must be worn for protection while cutting metal.

DELIVERY & STORAGE

Unload and inspect the delivered materials for damage. Store the panels and accessories under waterproof covers and above ground on skidded platforms. Provide proper ventilation to prevent condensation.

PRE-INSTALLATION

All projects should conform to applicable building codes.

The minimum recommended roof pitch is 3” per foot. (Depending on panel length)

The building must be squared according to acceptable building practices. Check the roof for square by measuring diagonally across one slope of the roof from similar points at the eave and ridge and confirming the same dimension. The substructure (eave to ridge) must be on plane within a ¼” tolerance.

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PRE-INSTALLATION CONTINUED

Provide a written report of discrepancies to the architect. ***Do not begin the installation until unsatisfactory conditions have been corrected*** as starting installation usually indicates acceptance of the substrate.

Wait until adjoining areas scheduled for stuccoing have been completed and washed down. Do not wash down acid residues from stucco directly over the metal.

ROOF INSTALLATION

The panels must be installed over a complete moisture-proofed substrate. Install #30 Asphalt Saturated Felt over the entire solid substrate. Under all flashing areas including eaves, apply a layer of Englert HT Underlayment, then overlay and install a layer of #30 Felt. All of these moisture barriers must be installed in a smooth continuous manner.

The panels should be installed square (perpendicular) to the eave. Panel seams should face away from the direction of the prevailing wind.

The seams shall be parallel and they shall be aligned for hips, ridges and valleys when possible.

No surface penetrations shall be made in panels without specific architect approval. All panels shall be continuous from eave to ridge without any horizontal end laps.

Do not overdrive fasteners as this can cause panel distortion.

End lap all flashing and trim at least 3”. All gutters must be mitered, caulked and have a lining of HT Underlayment applied at the laps to make it watertight. All butt joints must be caulked.

CLEANUP

Peel off any strippable film on flashing as they are installed. Complete all items on punch list. Touchup minor scratches. Remove all debris associated with the roof installation.

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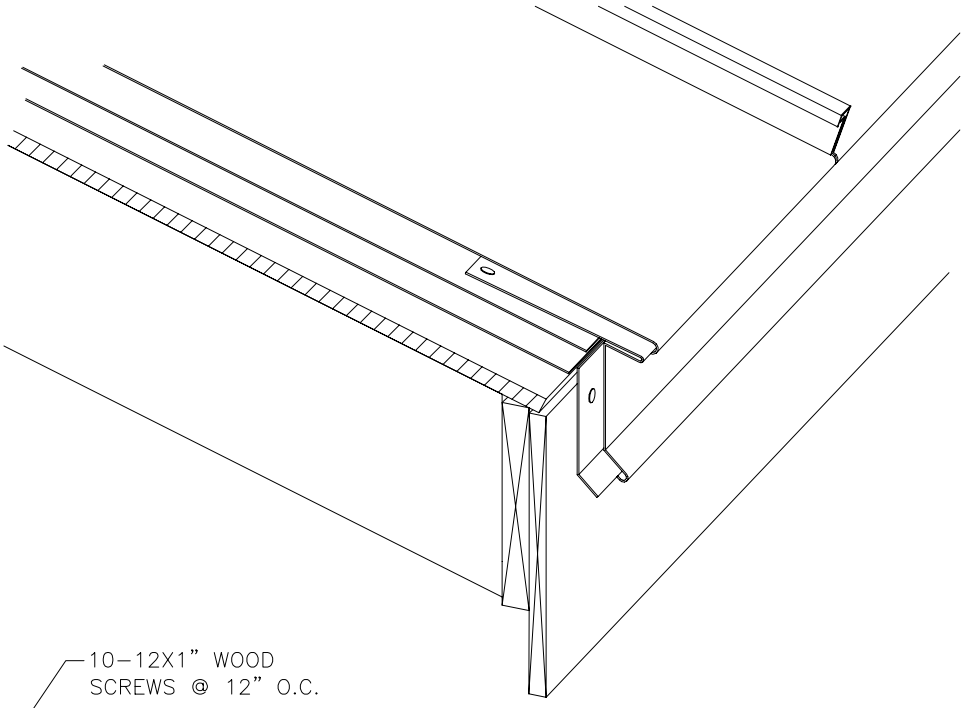
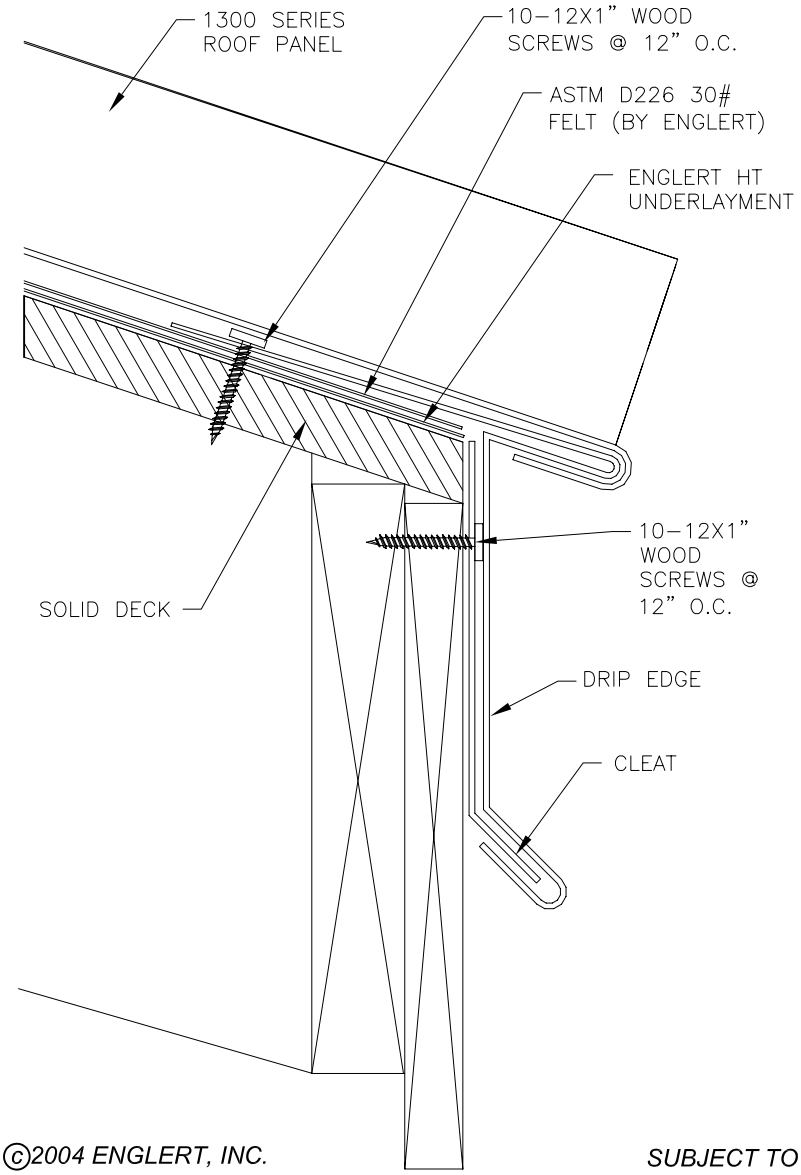
TYPICAL EAVE TRIM DETAIL





NOTES:

1) INSTALL CLEAT ONTO FASCIA WITH #10-12x1" WOOD SCREW, 12" O.C.
2) INSTALL DRIP EDGE BY SLIDING OPEN HEM ONTO CLEAT & FASTENING WITH #10-12x1" WOOD SCREW, 12" O.C. ONTO SUBSTRATE.
3) ENGAGE DRIP EDGE INTO OPEN HEM OF PANEL TO BEGIN PANEL INSTALLATION.

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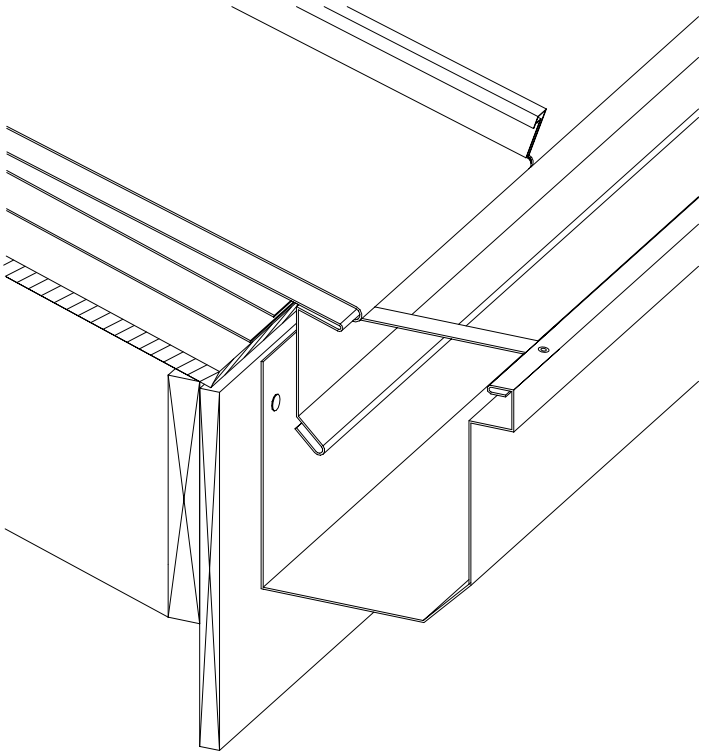
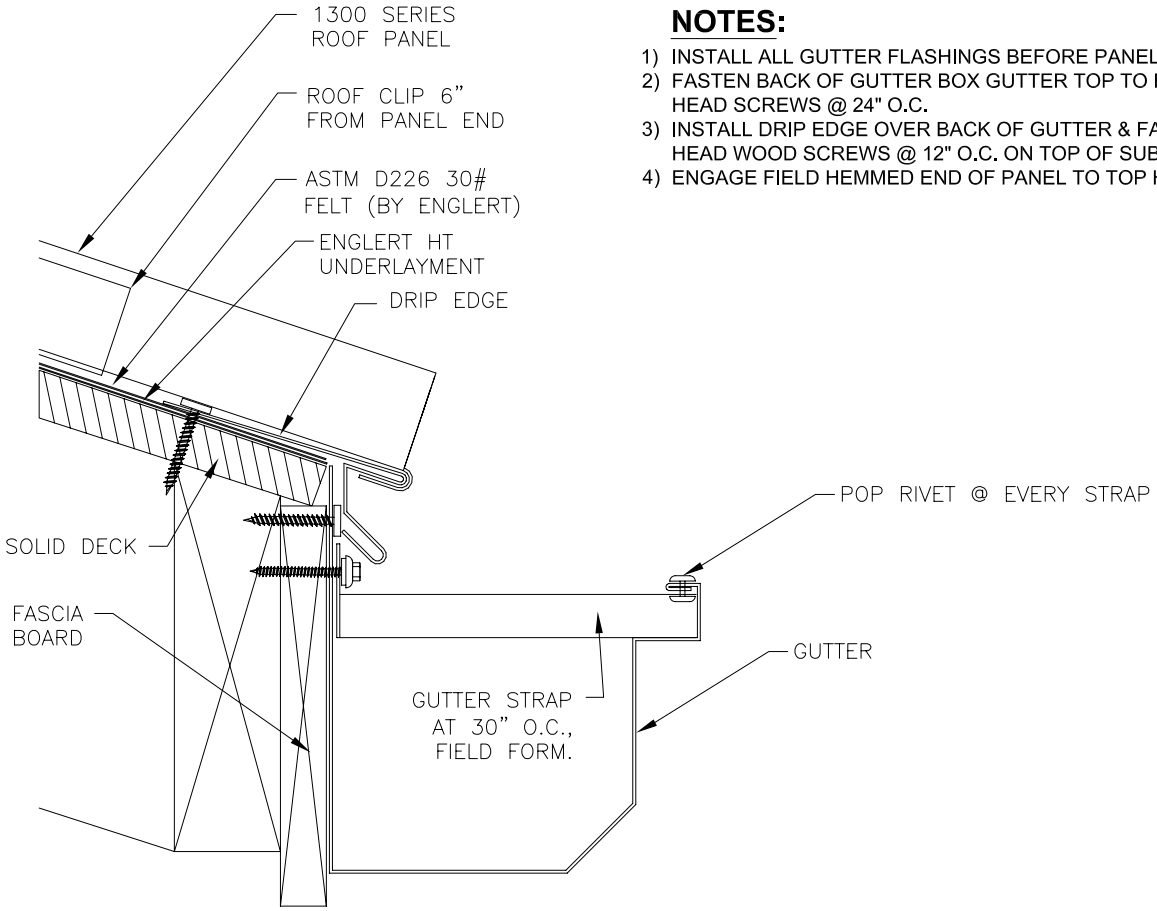
TYPICAL GUTTER DETAIL





NOTES:

1) INSTALL ALL GUTTER FLASHINGS BEFORE PANEL INSTALLATION
2) FASTEN BACK OF GUTTER BOX GUTTER TOP TO FASCIA W/ #10-12X1" PANCAKE HEAD SCREWS @ 24" O.C.
3) INSTALL DRIP EDGE OVER BACK OF GUTTER & FASTEN #10-12X1" PANCAKE HEAD WOOD SCREWS @ 12" O.C. ON TOP OF SUBSTRATE
4) ENGAGE FIELD HEMMED END OF PANEL TO TOP HEM OF DRIP EDGE

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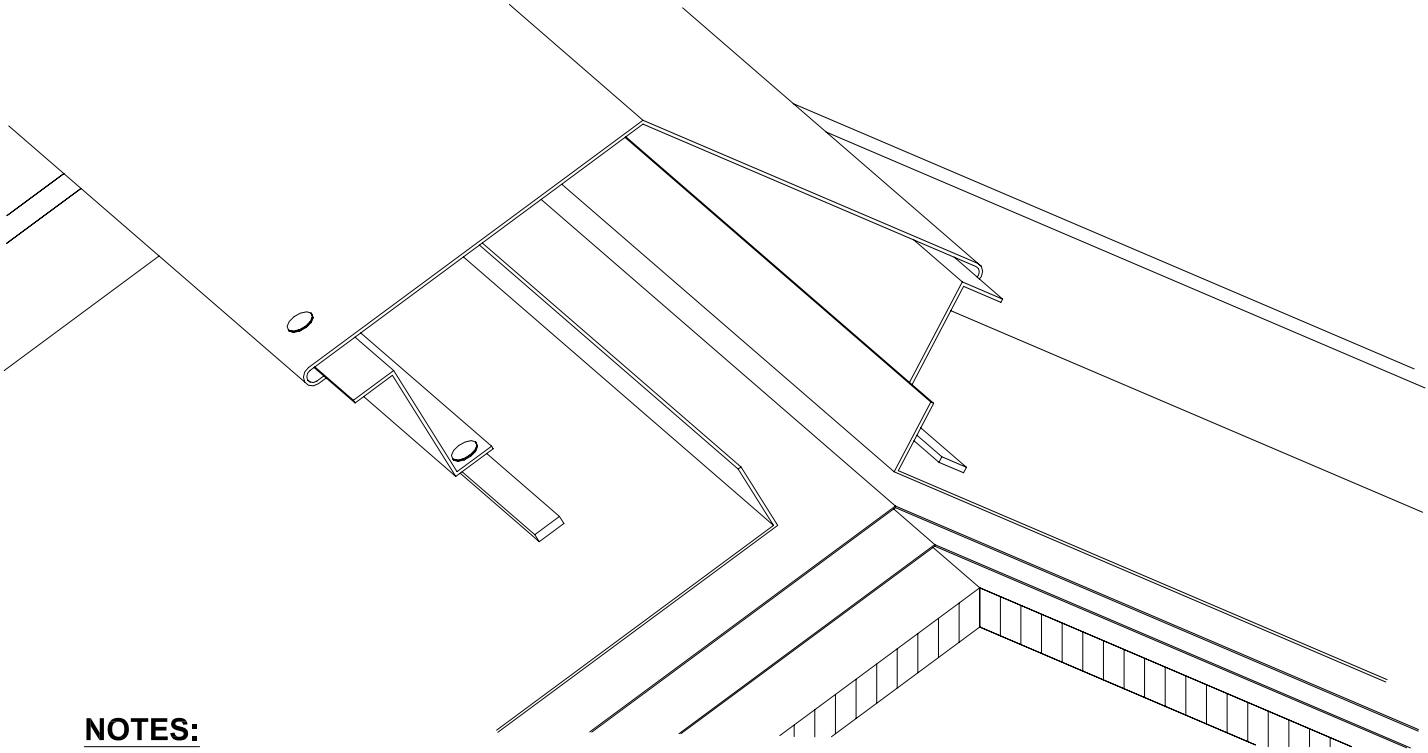
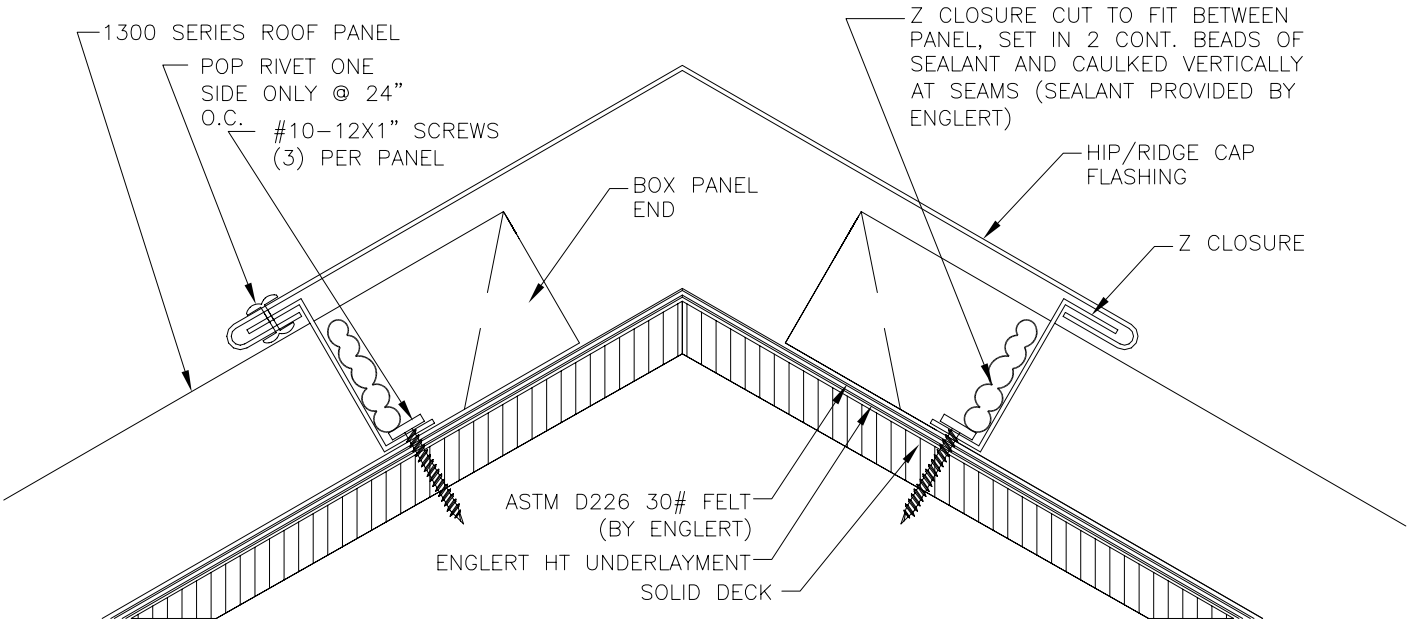
TYPICAL HIP / RIDGE DETAIL



NOTES:

1) BOX END OF PANELS.
2) FIELD CUT "Z" CLOSURES TO FIT BETWEEN PANEL RIBS.
3) SET "Z" CLOSURE IN TAPE SEALANT OR 2 CONT. BEADS OF SEALANT AND ATTACH TO PANEL WITH (3) #10-12X1" WOOD SCREWS.
4) APPLY SEALANT ON SIDE LEGS OF "Z" CLOSURE, FILLING ANY GAPS AROUND PANEL RIBS.
5) ATTACH RIDGE/HIP FLASHING TO "Z" CLOSURES WITH A POP RIVET ON ONE SIDE AT 24" O.C.
6) IF ADDITIONAL FLASHING LENGTHS ARE REQUIRED, APPLY SEALANT AND LAP THE FLASHING OVER THE INSTALLED FLASHING BY A MINIMUM OF 3" SECURING THE CONNECTION WITH POP RIVETS.



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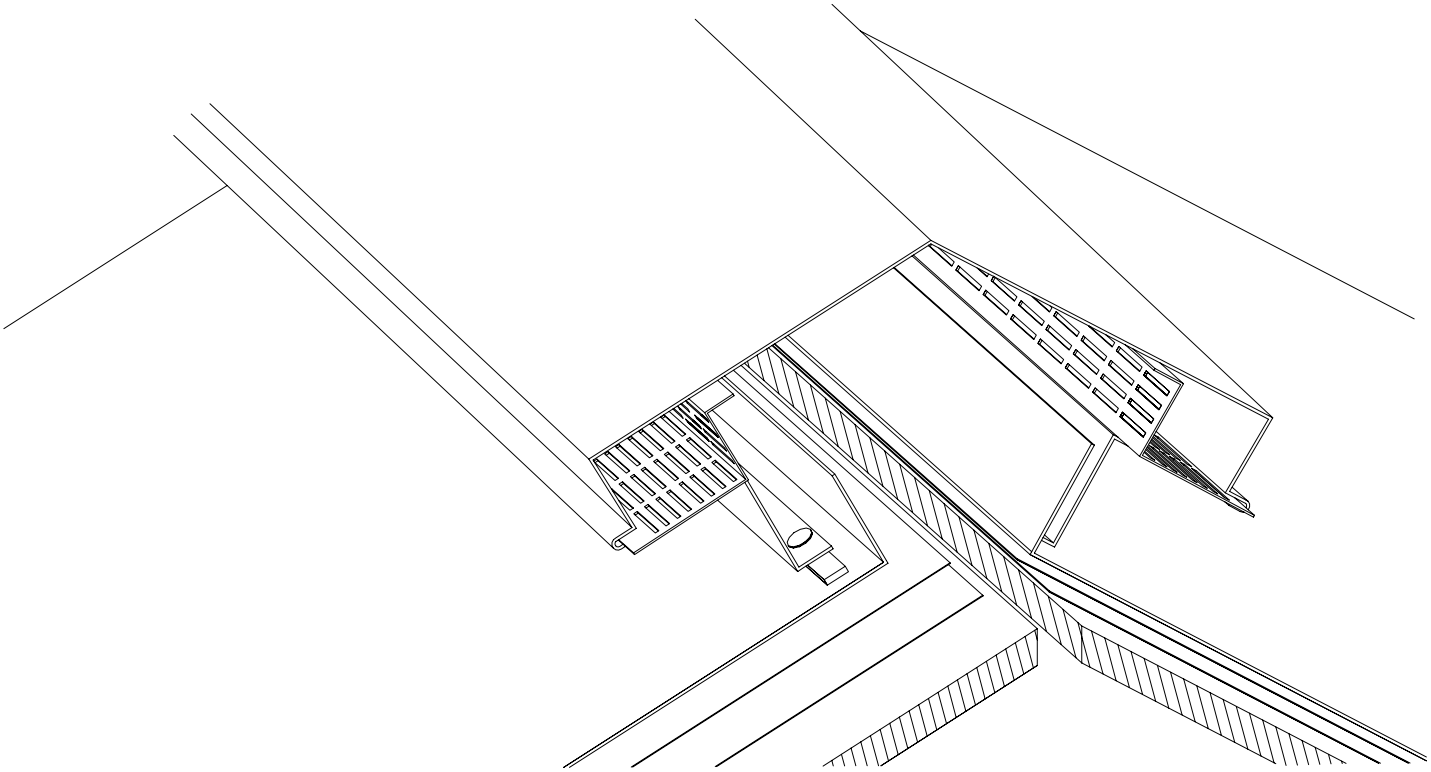
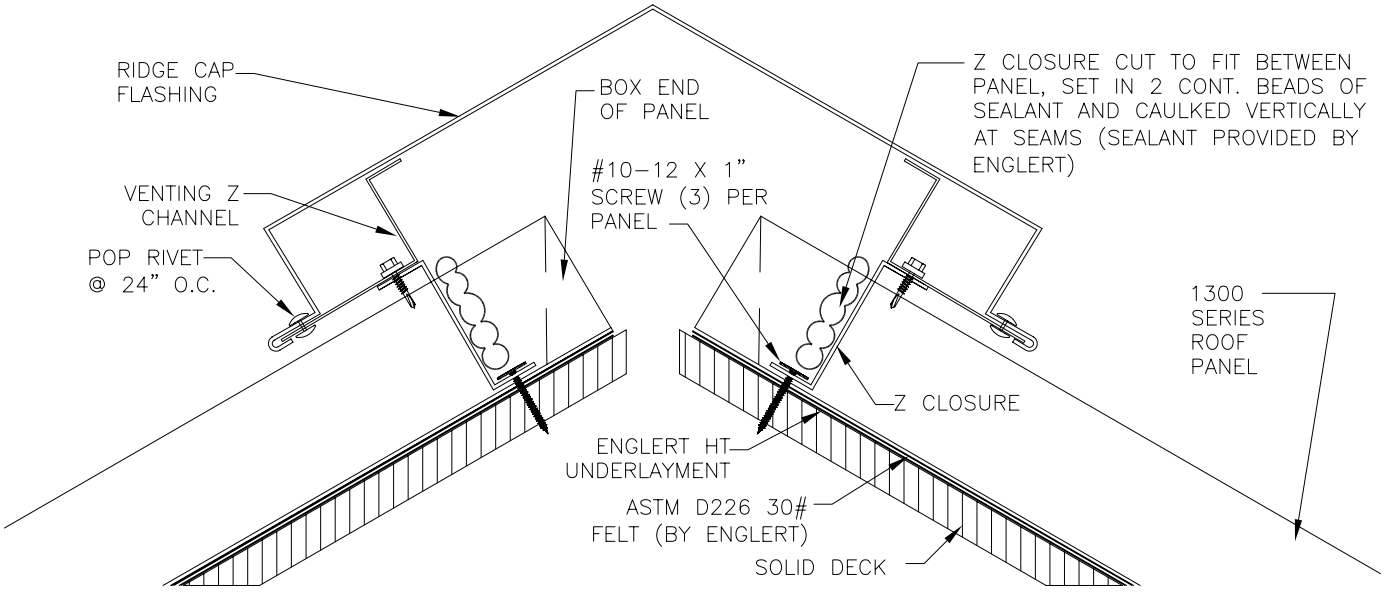
METAL VENTED RIDGE DETAIL



NOTES:

1) BOX END OF PANELS.
2) SET "Z" CLOSURE IN TAPE SEALANT OR 2 CONT. BEADS OF SEALANT AND ATTACH TO PANEL WITH (3) #10-12X1" WOOD SCREWS.
3) ATTACH BOTTOM OF VENTED "Z" CLOSURE TO TOP OF "Z CLOSURE" WITH STITCH SCREWS @ 24" O.C.
4) HOOK OTHER HEM SIDE OF RIDGE CAP ONTO THE LONG END OF THE OTHER VENTED "Z" CLOSURE AND POP RIVET BOTH SIDES @ 24" O.C.
5) INSERT LONG END OF VENTED "Z" CLOSURE INTO AN OPEN HEM SIDE OF RIDGE CAP.



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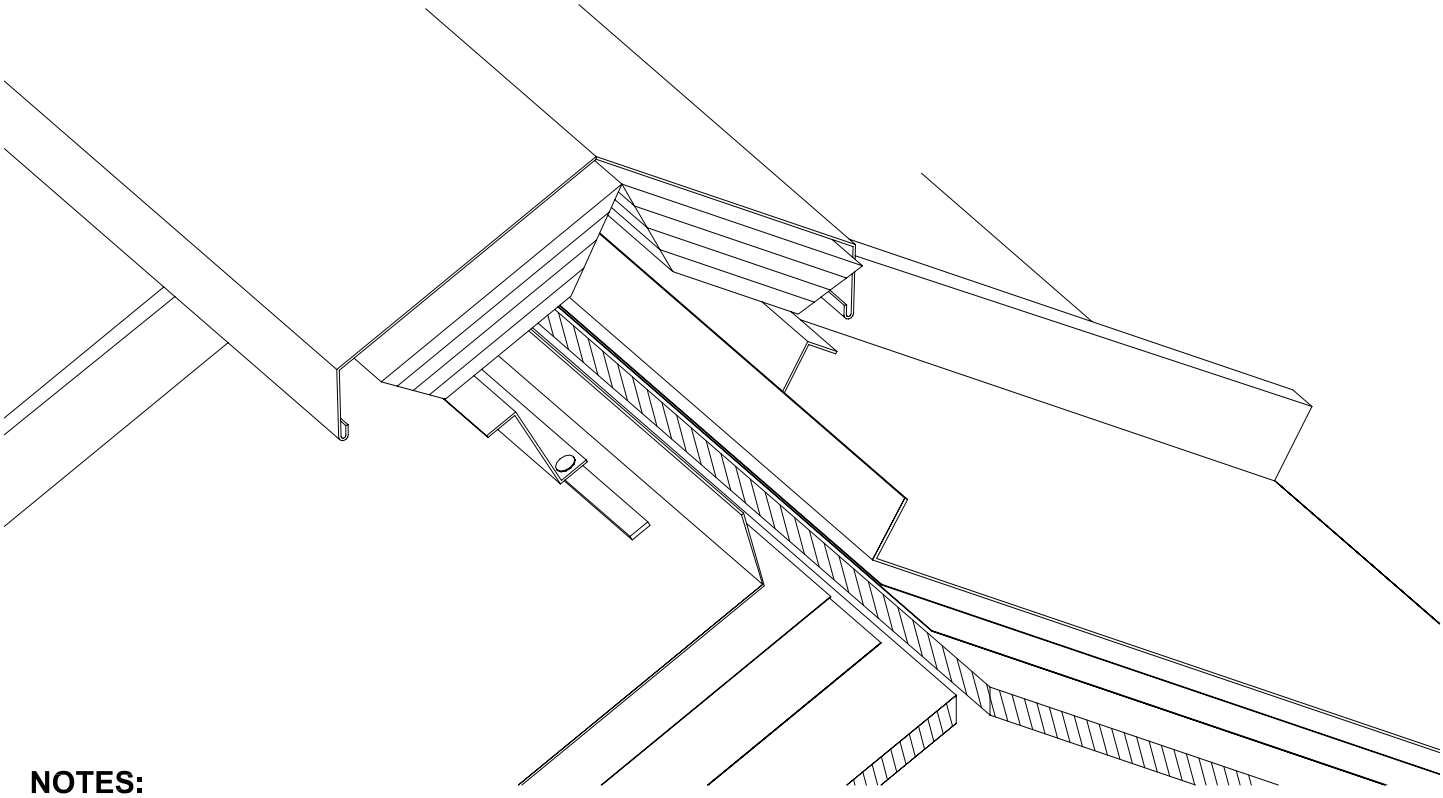
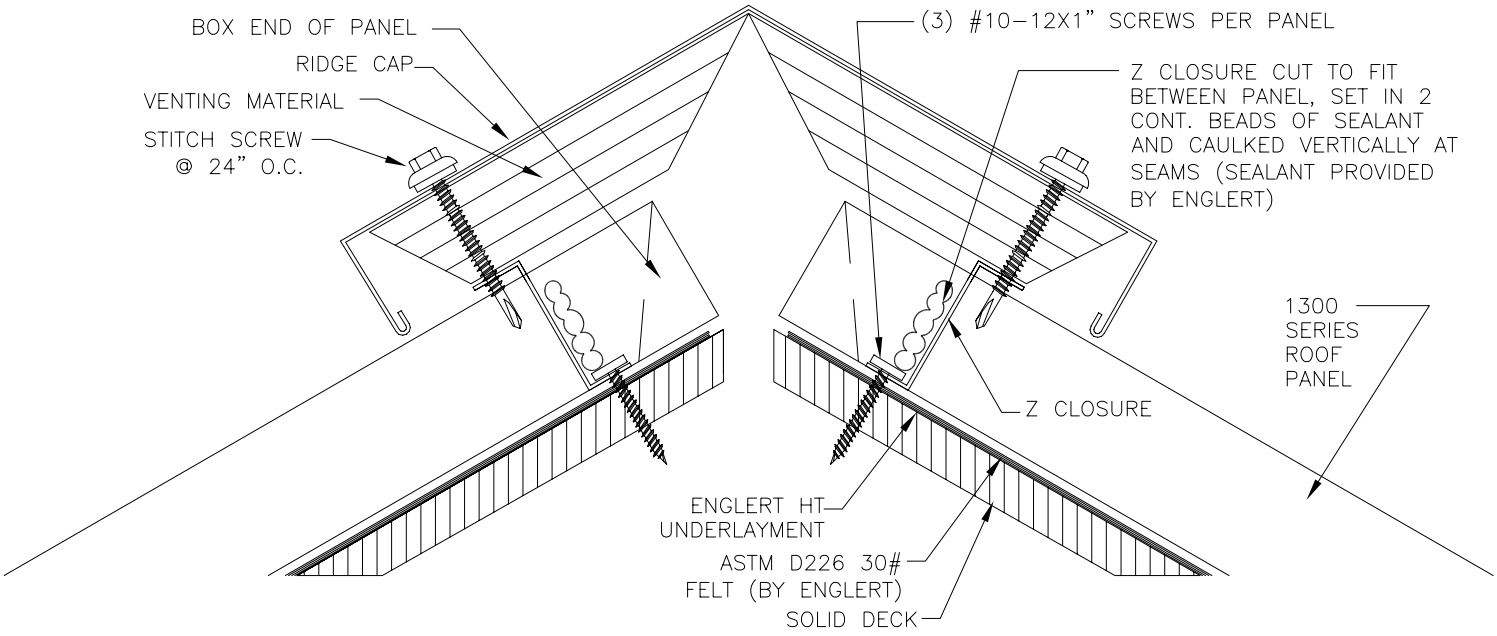
VENTED RIDGE DETAIL



NOTES:

1) BOX END OF PANELS.
2) FIELD CUT "Z CLOSURES" TO FIT BETWEEN PANEL RIBS. SET "Z" CLOSURE IN TAPE SEALANT OR 2 CONT. BEADS OF SEALANT AND ATTACH TO PANEL WITH (3) #10-12X1" WOOD SCREWS.
3) APPLY SEALANT ON SIDE LEGS OF "Z" CLOSURE, FILLING ANY GAPS AROUND PANEL RIBS.
4) ATTACH RIDGE FLASHING TO "Z" CLOSURES THROUGH VENTING MATERIAL WITH A STICH SCREW AT 24" O.C.
5) IF ADDITIONAL FLASHING LENGTHS ARE REQUIRED, APPLY SEALANT AND LAP THE FLASHING OVER THE INSTALLED FLASHING BY A MINIMUM OF 3" SECURING THE CONNECTION WITH POP RIVETS.



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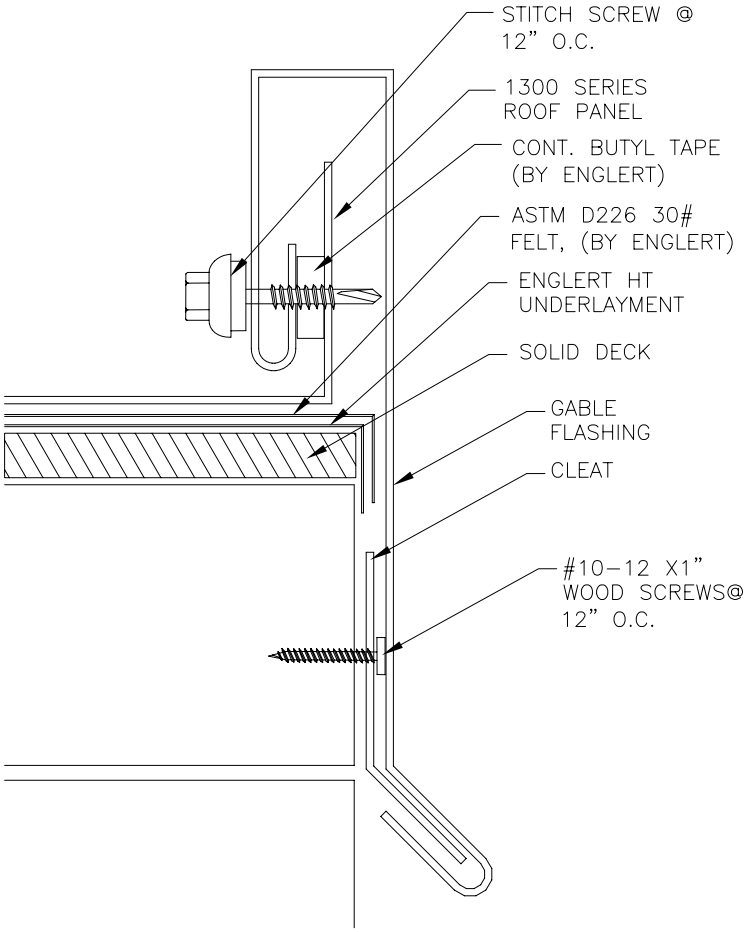
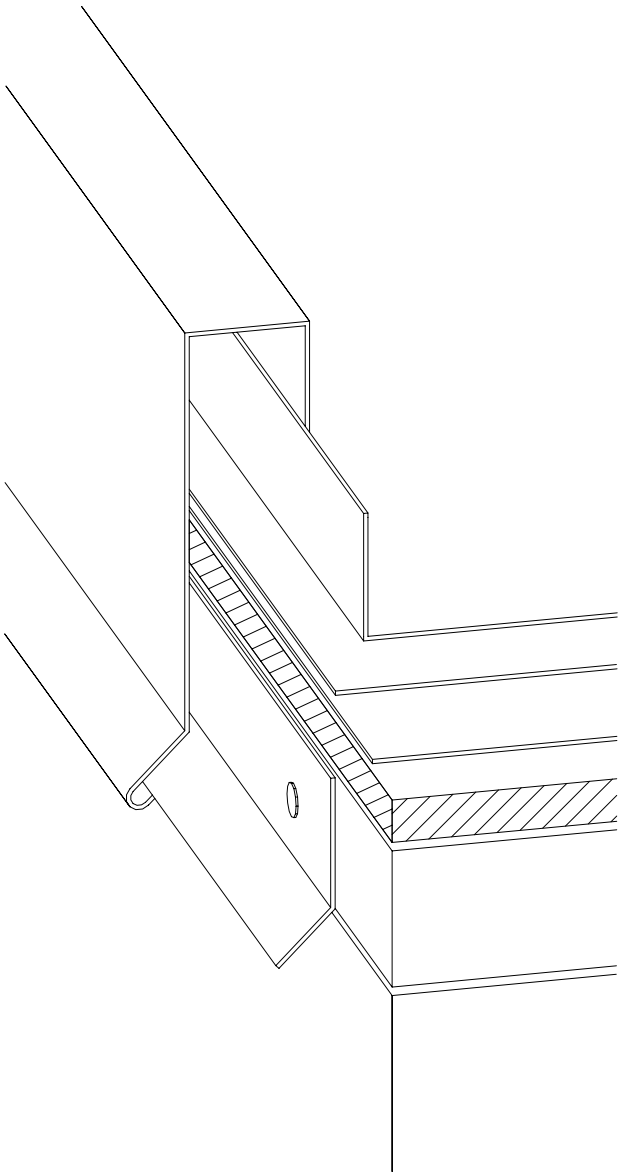
TYPICAL GABLE DETAIL





NOTES:

1) INSTALL CLEAT ON TO FASCIA WITH #10-12X1" PANCAKE HEAD WOOD SCREWS @ 12" O.C.
2) FIELD BEND PANEL AT 90 DEGREES, 1-½" MINIMUM.
3) ADHERE A CONTINUOUS LENGTH OF BUTYL TAPE (BY ENGLERT) ONTO THE TOP INSIDE OF THE PANEL LEG.
4) SLIDE GABLE FLASHING ONTO CLEAT AND ALIGN WITH PANEL.
5) CONNECT GABLE FLASHING WITH A STITCH SCREW AT 12" O.C.

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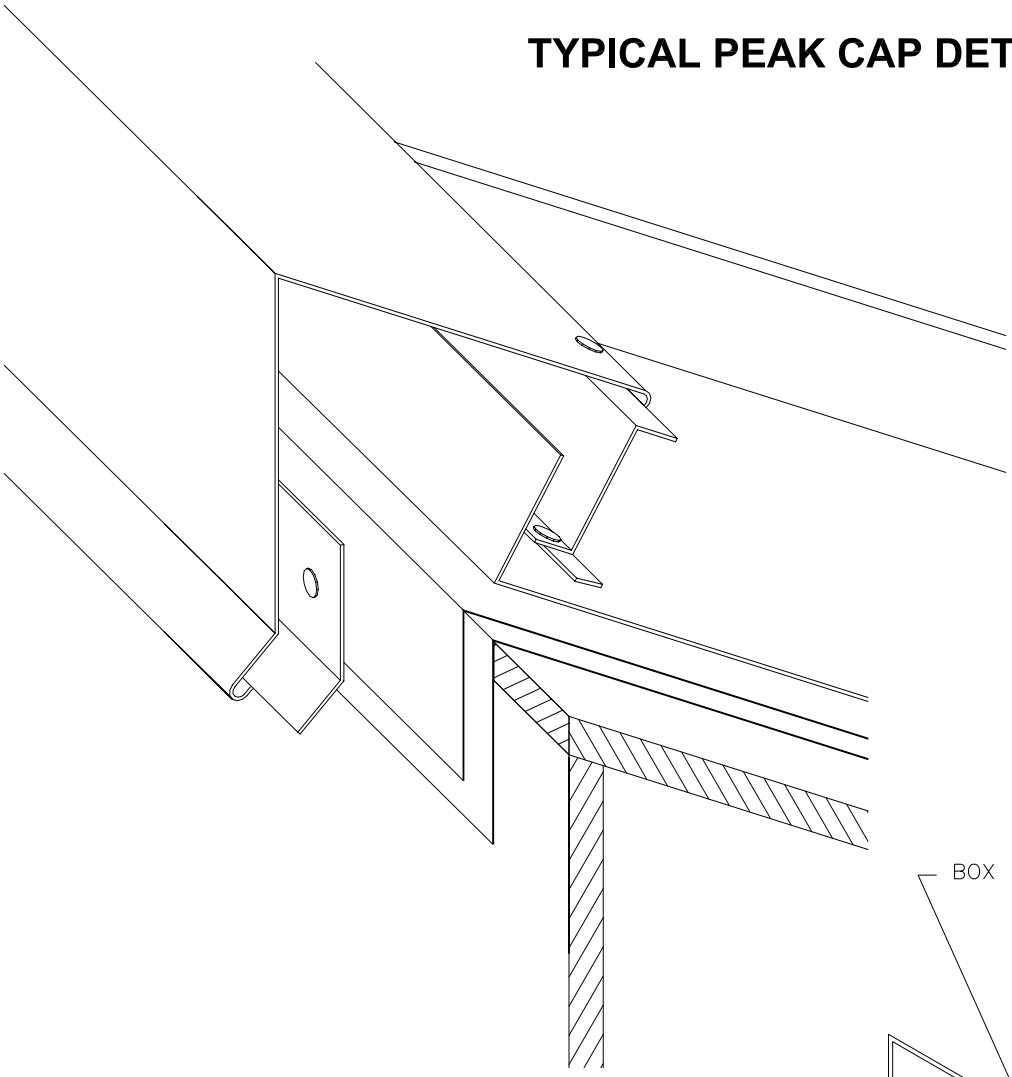
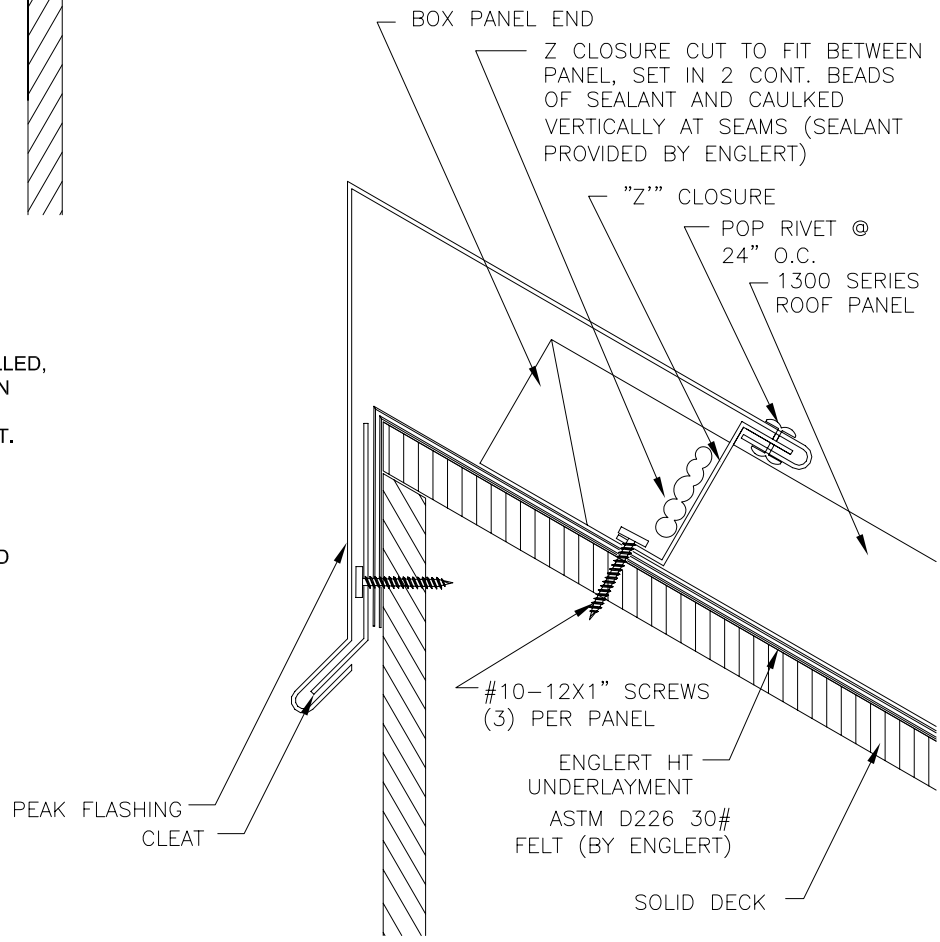
TYPICAL PEAK CAP DETAIL





NOTES:

1) ONCE PANELS HAVE BEEN BOXED AND INSTALLED, FIELD CUT THE "Z" CLOSURES TO FIT BETWEEN THE PANEL RIBS.
2) SET "Z" CLOSURE IN TAPE SEALANT OR 2 CONT. BEADS OF SEALANT AND FASTEN THROUGH PANELS WITH (3) #10-12X1" WOOD SCREWS. CAULK THE "Z" CLOSURES VERTICALLY A THE SEAMS.
3) INSTALL CLEAT WITH #10-12X1" PANCAKE HEAD WOOD SCREWS @ 12" O.C.
4) INSTALL THE PEAK CAP BY SLIDING THE OPEN HEMS ONTO THE CLEAT AND "Z" CLOSURE, ATTACHING WITH POP RIVETS @ 24"' O.C.

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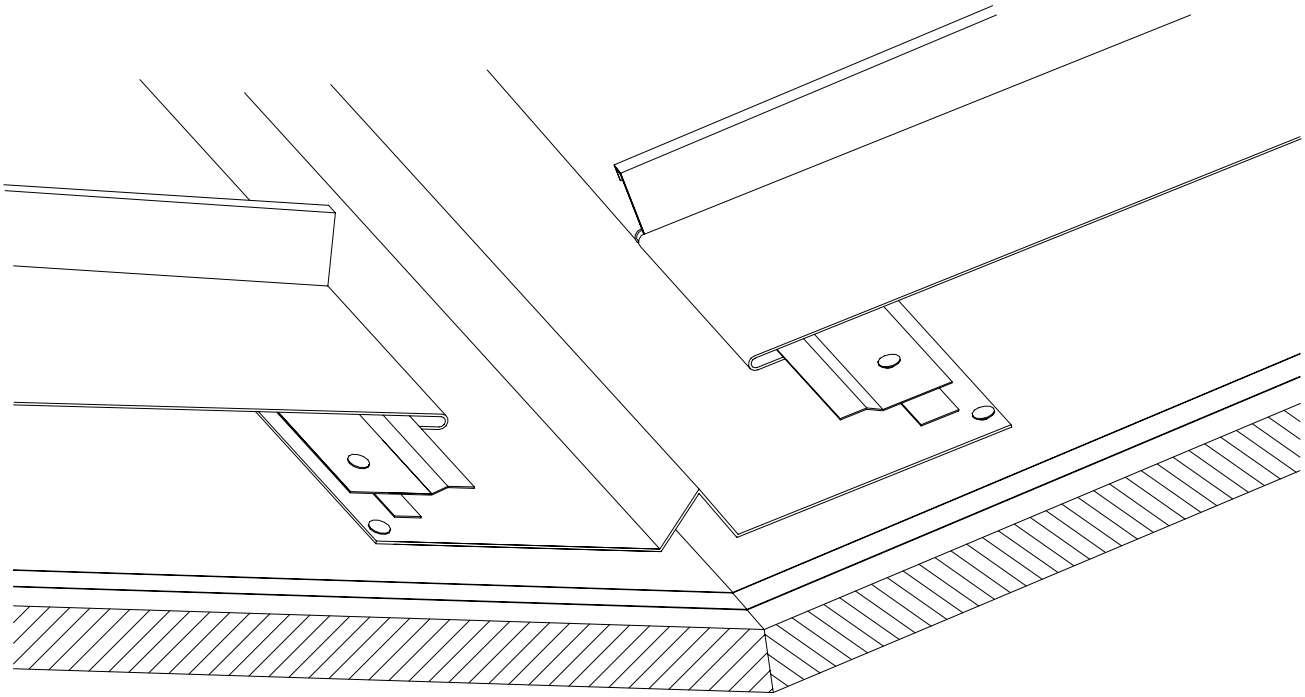
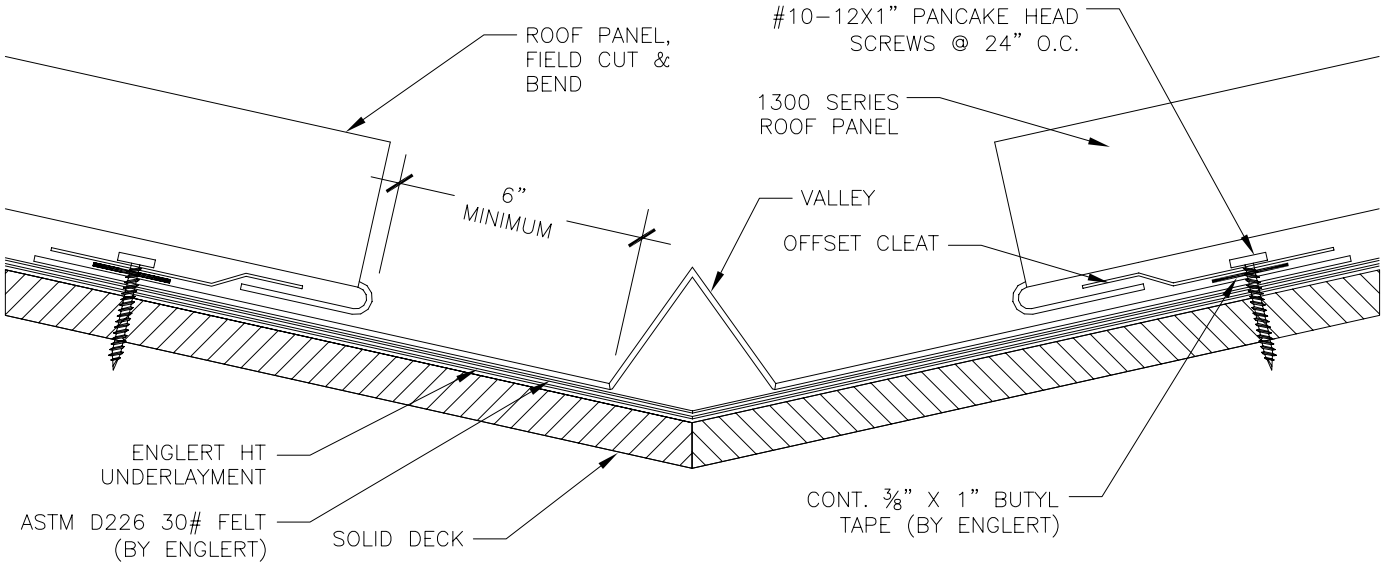
TYPICAL VALLEY DETAIL



NOTES:

1) INSTALL ALL VALLEY FLASHINGS BEFORE PANEL INSTALLATION
2) FASTEN VALLEY FLASHING TO SUBSTRATE WITH #10-12X1" PANCAKE HEAD WOOD SCREWS 24" O.C.
3) ALIGN AND INSTALL OFFSET CLEAT WITH TAPE SEALANT ON BOTH SIDES OF VALLEY FLASHING AT LEAST 6" BACK FROM CENTER OF VALLEY FLASHING.
5) FASTEN OFFSET CLEAT THROUGH VALLEY FLASHING AND TAPE SEALANT TO SUBSTRATE WITH #10-12X1" PANCAKE HEAD WOOD SCREWS 24" O.C.
6) FIELD HEM PANEL.
7) ENGAGE FIELD HEMMED END OF PANEL TO OFFSET CLEAT AND ATTACH PANEL AS USUAL.



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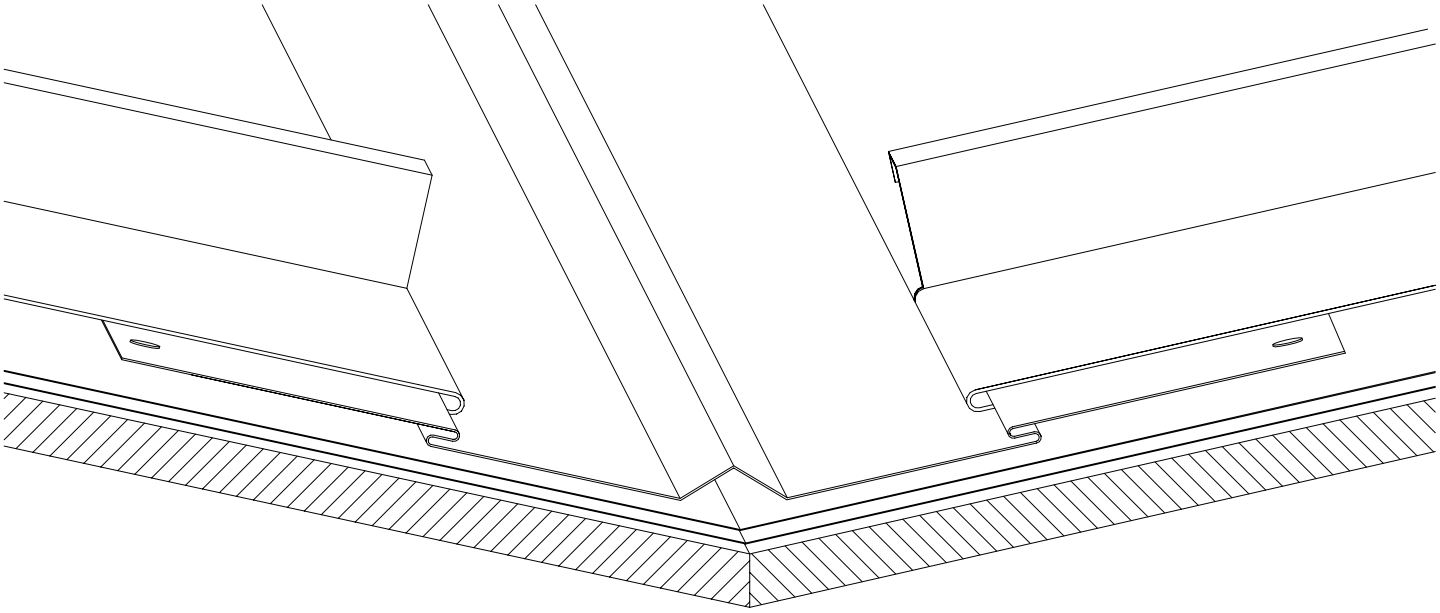
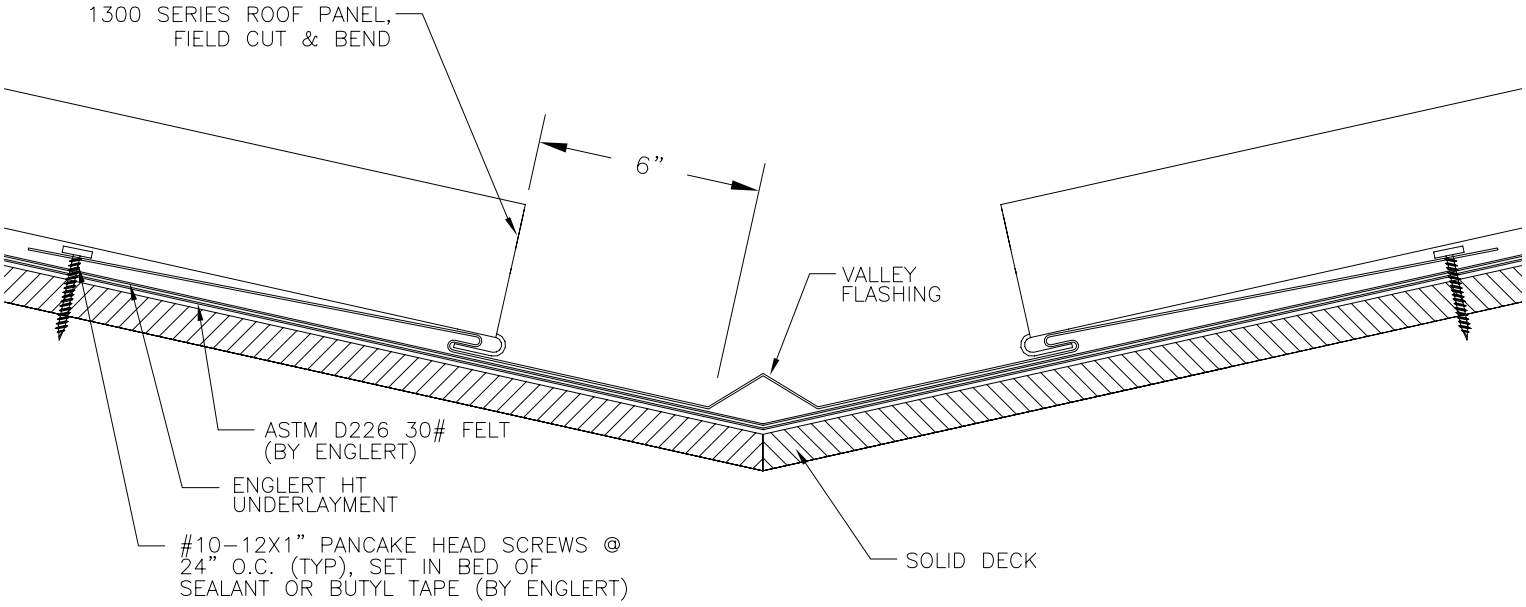
TYPICAL VALLEY DETAIL



NOTES:

1) INSTALL ALL VALLEY FLASHINGS BEFORE PANEL INSTALLATION.
2) FASTEN VALLEY FLASHING TO SUBSTRATE W/ #10-12X1" PANCAKE HEAD WOOD SCREWS 24" O.C.
3) FIELD HEM PANEL.
4) ENGAGE FIELD HEMMED END OF PANEL TO INTEGRATED VALLEY CLEAT.



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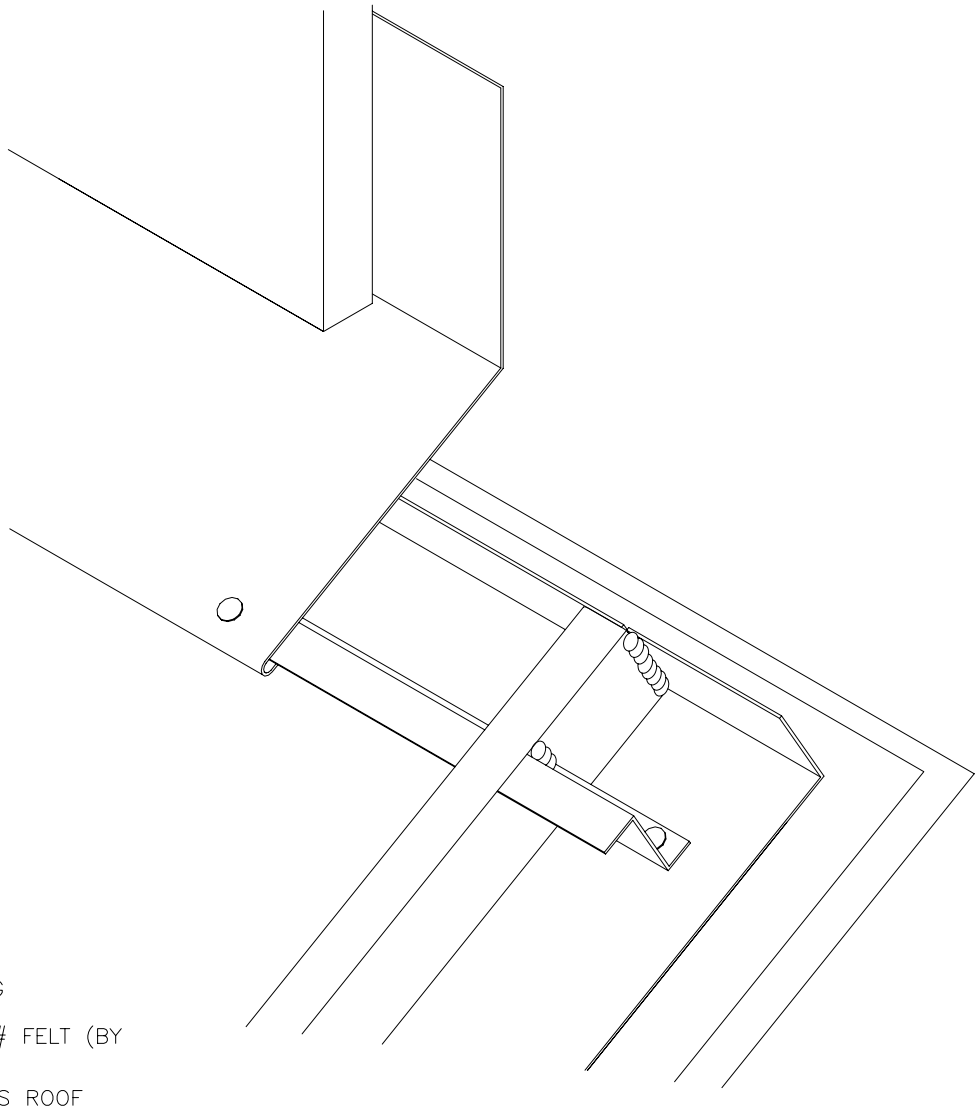
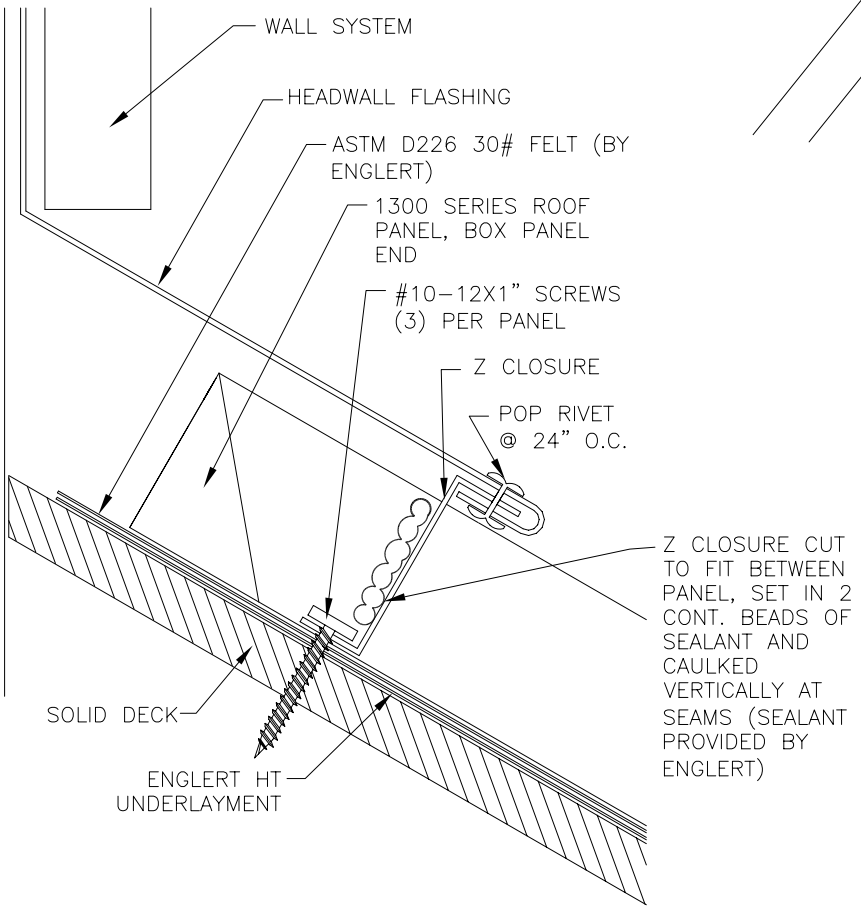
TYPICAL HEADWALL DETAIL





NOTES:

1) BOX PANEL ENDS.
2) FIELD CUT "Z CLOSURES" TO FIT BETWEEN PANEL RIBS.
3) SET "Z" CLOSURE IN TAPE SEALANT OR 2 CONT. BEADS OF SEALANT AND ATTACH TO PANEL WITH (3) #10-12X1" WOOD SCREWS.
4) CAULK "Z" CLOSURE VERTICALLY AT PANEL SEAM.
5) ATTACH HIGH SIDE TRANSITION FLASHING TO "Z" CLOSURE W/ POP RIVETS.

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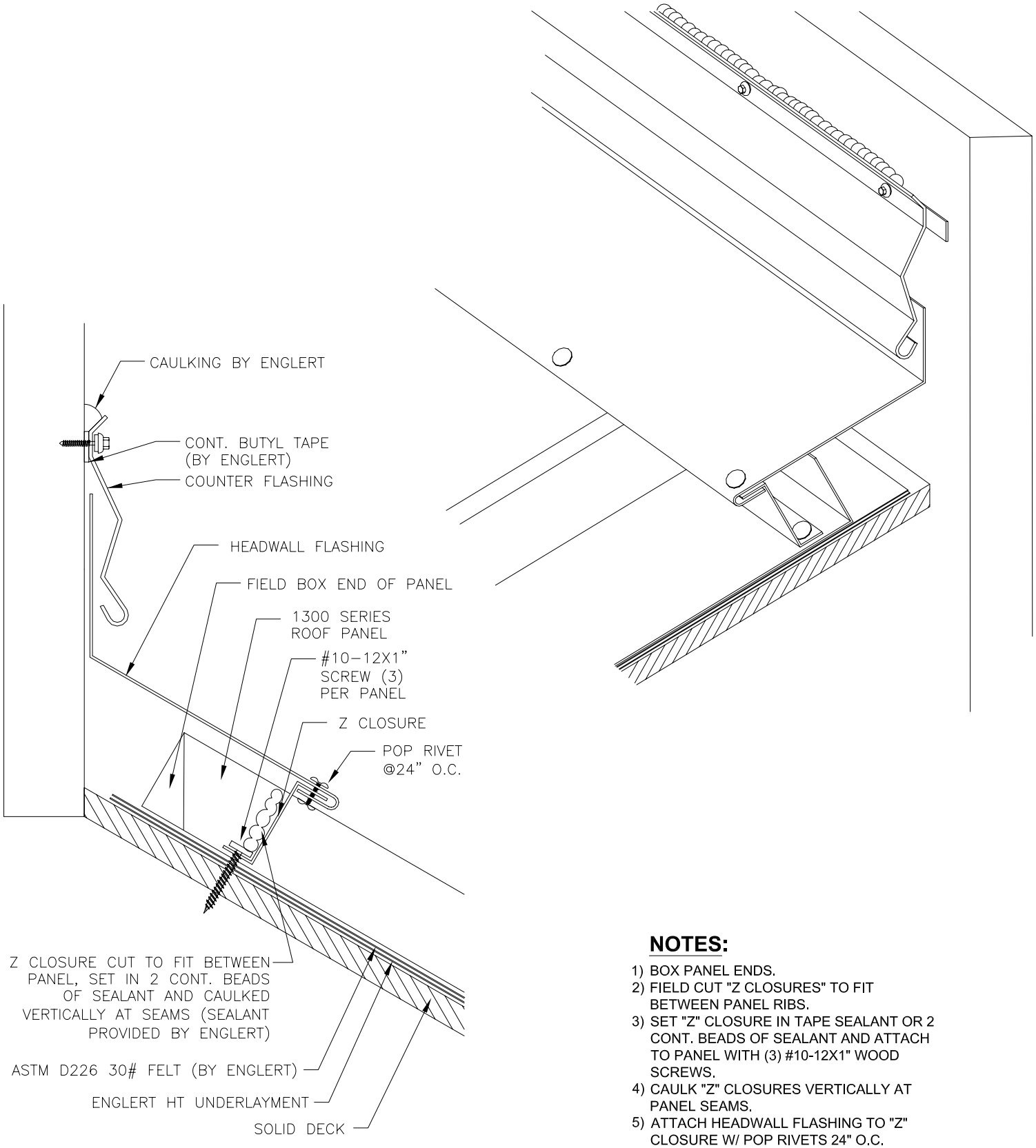
TYPICAL HEADWALL DETAIL



NOTES:

1) BOX PANEL ENDS.
2) FIELD CUT "Z CLOSURES" TO FIT BETWEEN PANEL RIBS.
3) SET "Z" CLOSURE IN TAPE SEALANT OR 2 CONT. BEADS OF SEALANT AND ATTACH TO PANEL WITH (3) #10-12X1" WOOD SCREWS.
4) CAULK "Z" CLOSURES VERTICALLY AT PANEL SEAMS.
5) ATTACH HEADWALL FLASHING TO "Z" CLOSURE W/ POP RIVETS 24" O.C.
6) INSTALL COUNTER FLASHING AND CAULK TOP WITH ENGLERT SEALANT.

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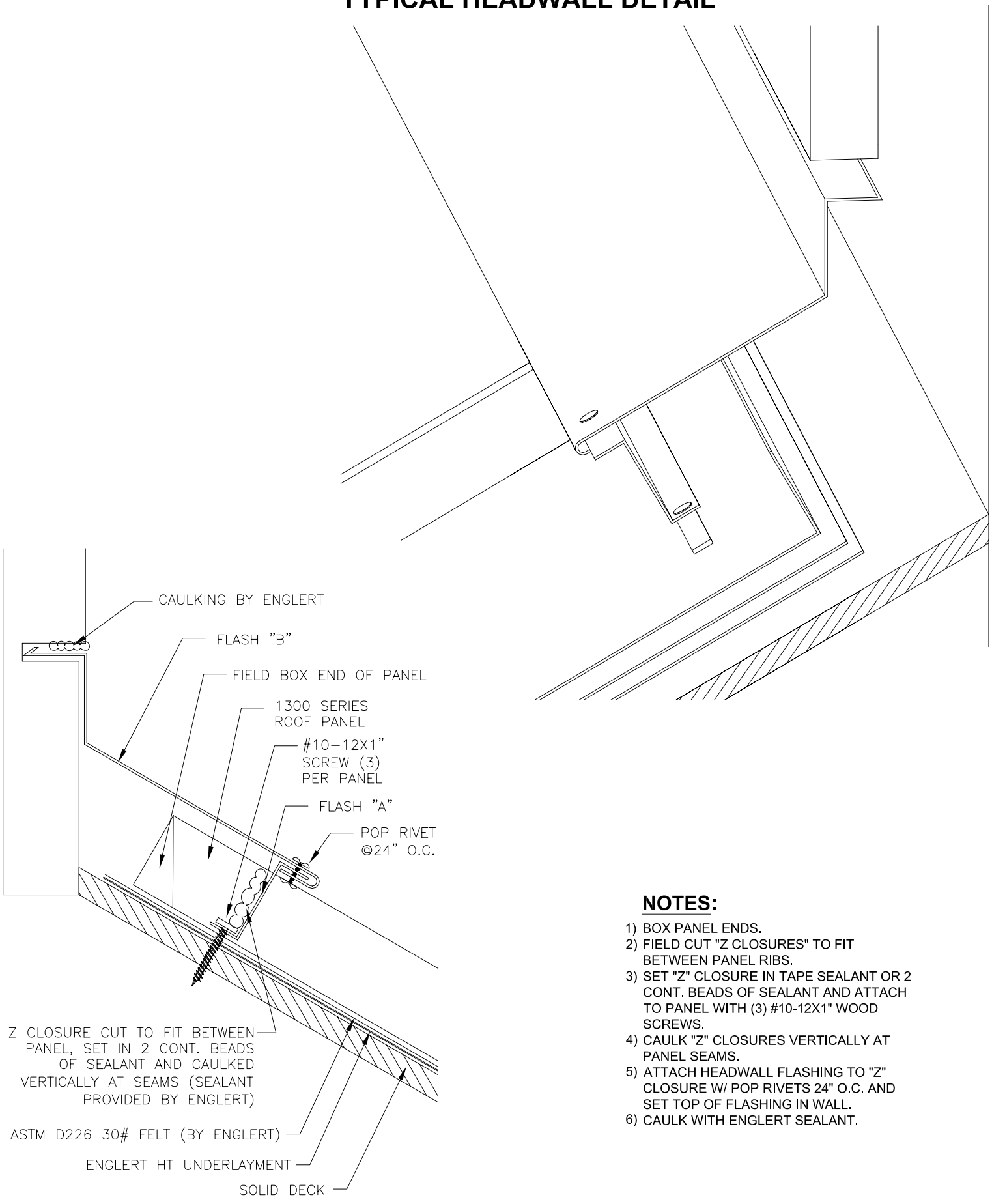
TYPICAL HEADWALL DETAIL



NOTES:

1) BOX PANEL ENDS.
2) FIELD CUT "Z CLOSURES" TO FIT BETWEEN PANEL RIBS.
3) SET "Z" CLOSURE IN TAPE SEALANT OR 2 CONT. BEADS OF SEALANT AND ATTACH TO PANEL WITH (3) #10-12X1" WOOD SCREWS.
4) CAULK "Z" CLOSURES VERTICALLY AT PANEL SEAMS.
5) ATTACH HEADWALL FLASHING TO "Z" CLOSURE W/ POP RIVETS 24" O.C. AND SET TOP OF FLASHING IN WALL.
6) CAULK WITH ENGLERT SEALANT.

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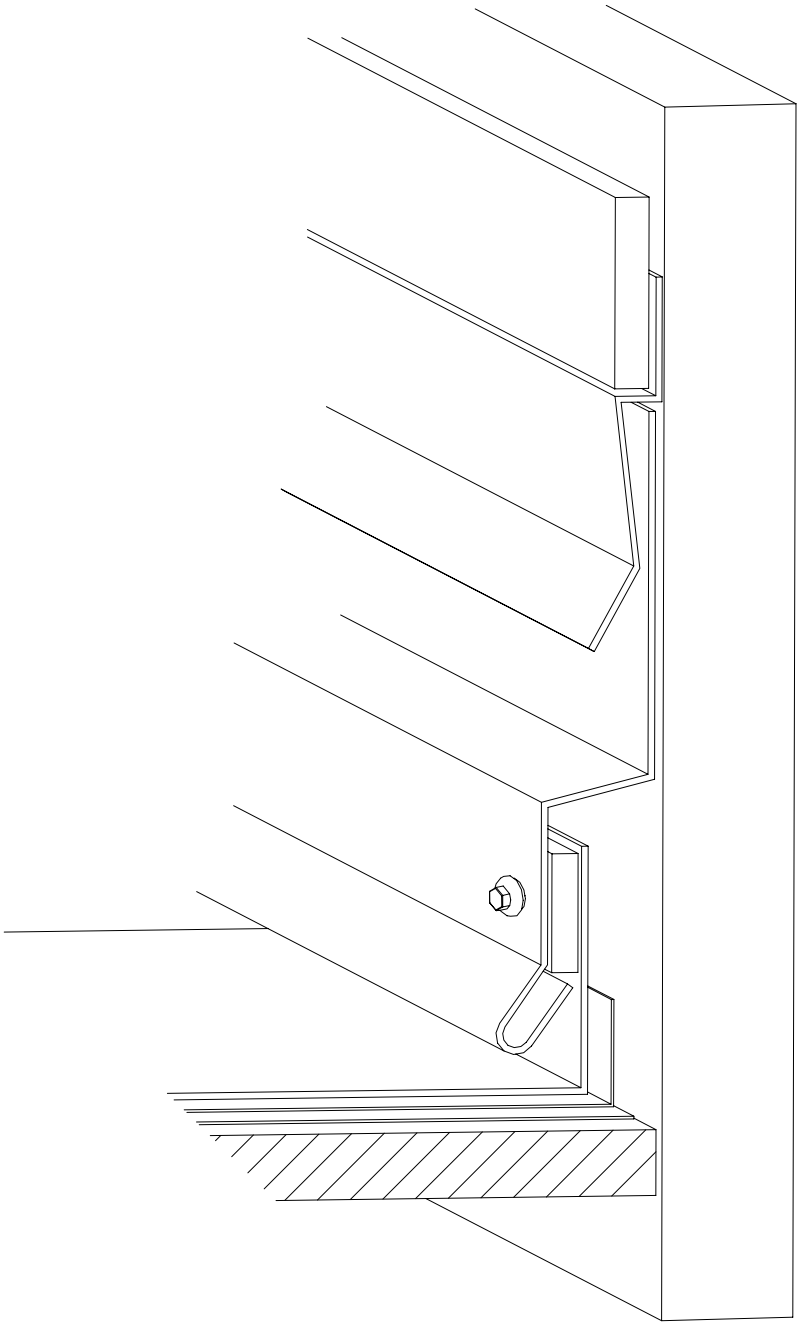
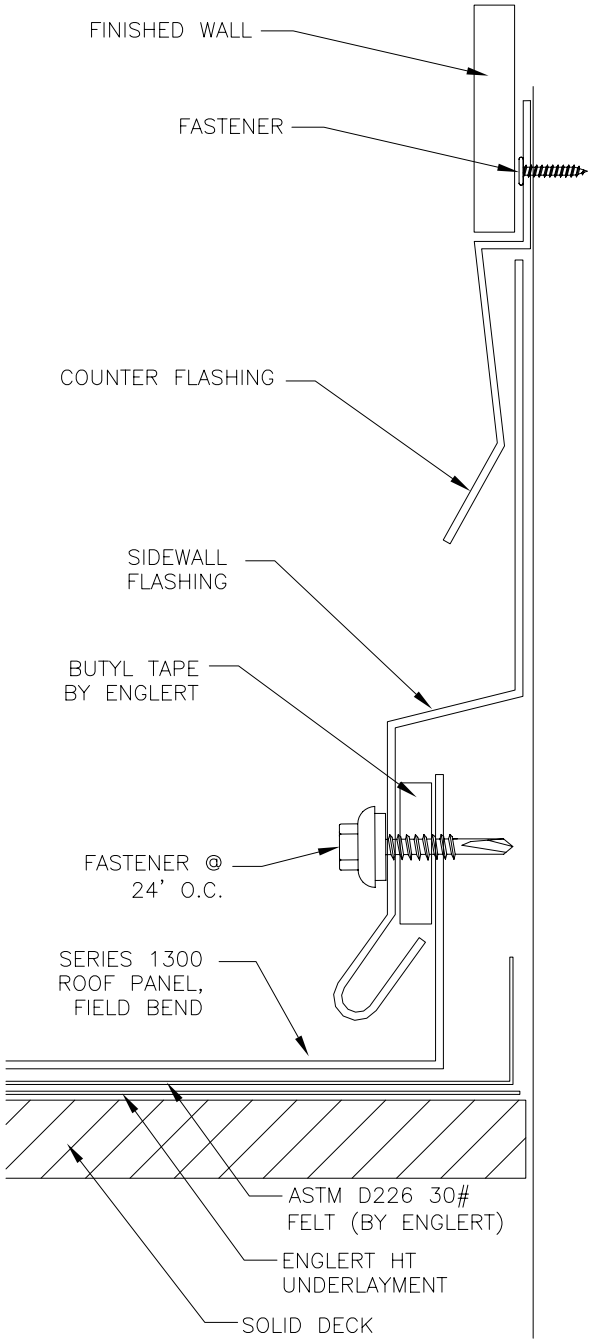
TYPICAL SIDEWALL DETAIL





NOTES:

1) APPLY SEALANT TAPE TO INSIDE OF PANEL LEG
2) ATTACH SIDEWALL FLASHING BY INSTALLING FASTENER @ 24" O.C. THROUGH SEALANT TAPE AND INTO PANEL
3) INSTALL COUNTER FLASHING

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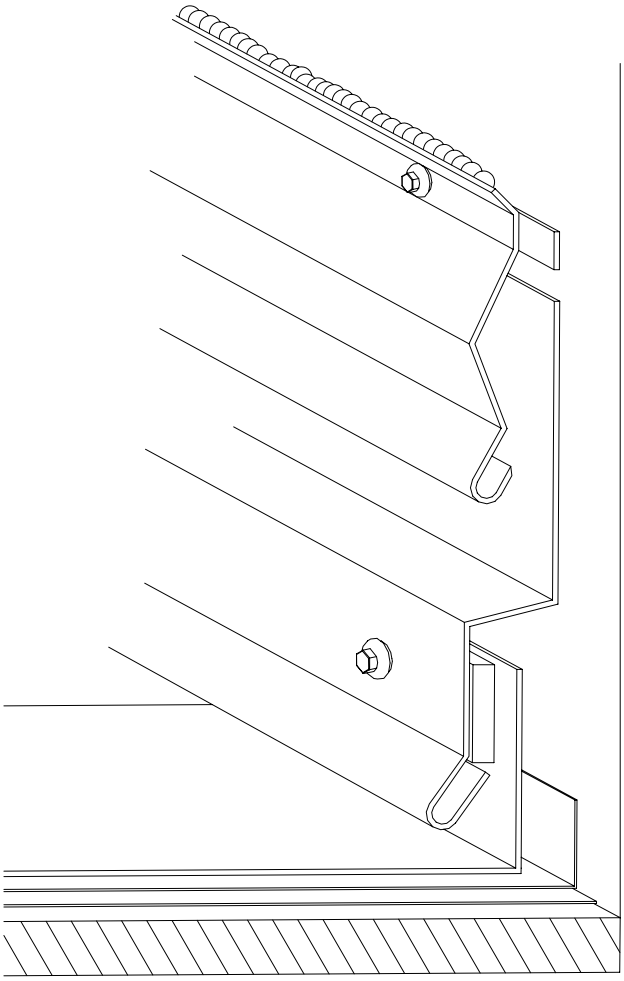
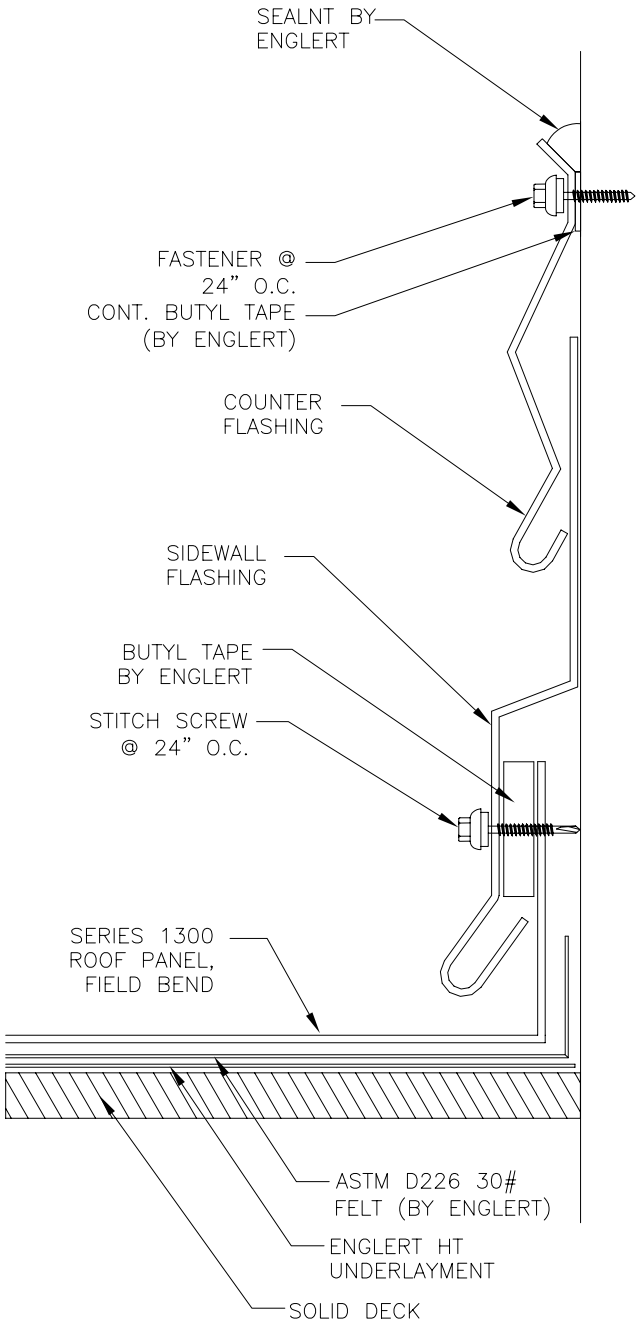
TYPICAL SIDEWALL DETAIL





NOTES:

1) APPLY SEALANT TAPE TO INSIDE OF PANEL LEG.
2) ATTACH SIDEWALL FLASHING BY INSTALLING FASTENER @ 24" O.C. THROUGH SEALANT TAPE AND INTO PANEL.
3) INSTALL COUNTER FLASHING AND CAULK WITH ENGLERT SEALANT.

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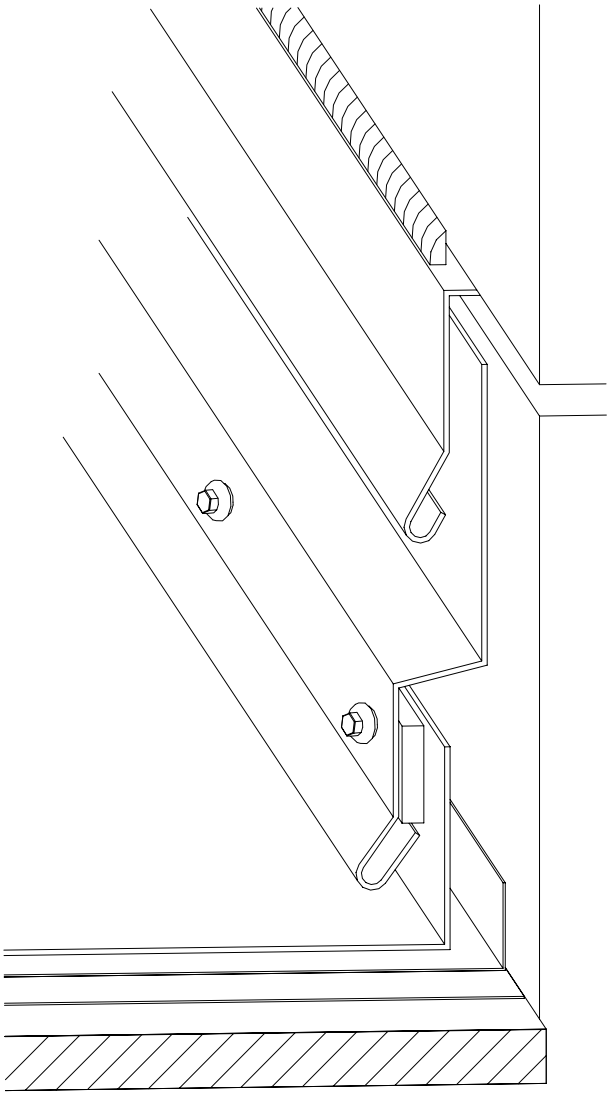
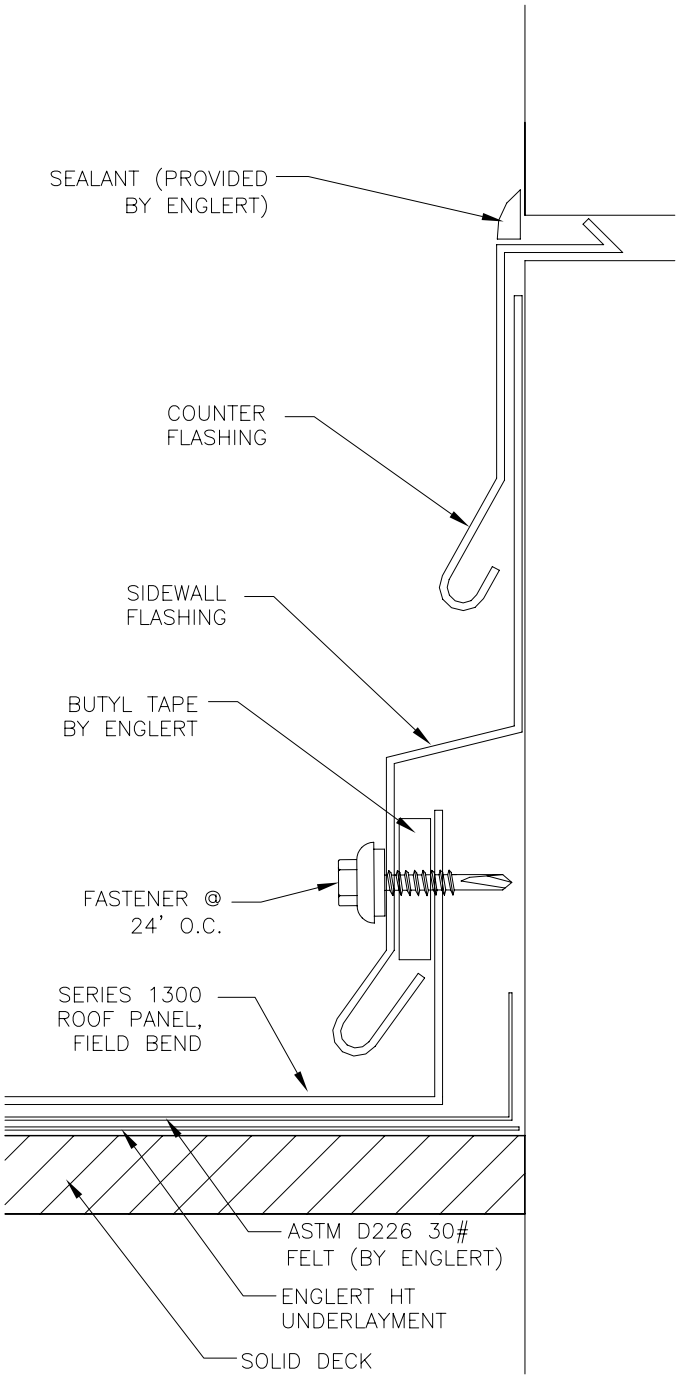
TYPICAL SIDEWALL DETAIL





NOTES:

1) APPLY SEALANT TAPE TO INSIDE OF PANEL LEG.
2) ATTACH SIDEWALL FLASHING BY INSTALLING FASTENER @ 24" O.C. THROUGH SEALANT TAPE AND INTO PANEL.
3) INSTALL COUNTER FLASHING AND CAULK WITH ENGLERT SEALANT.

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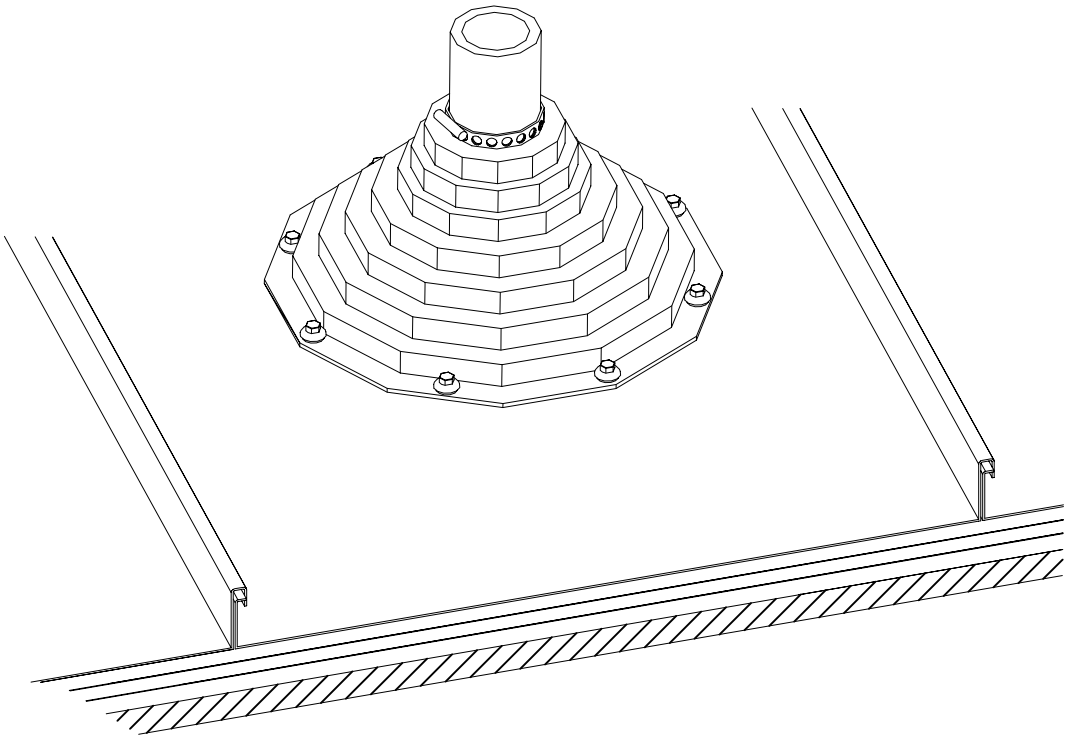
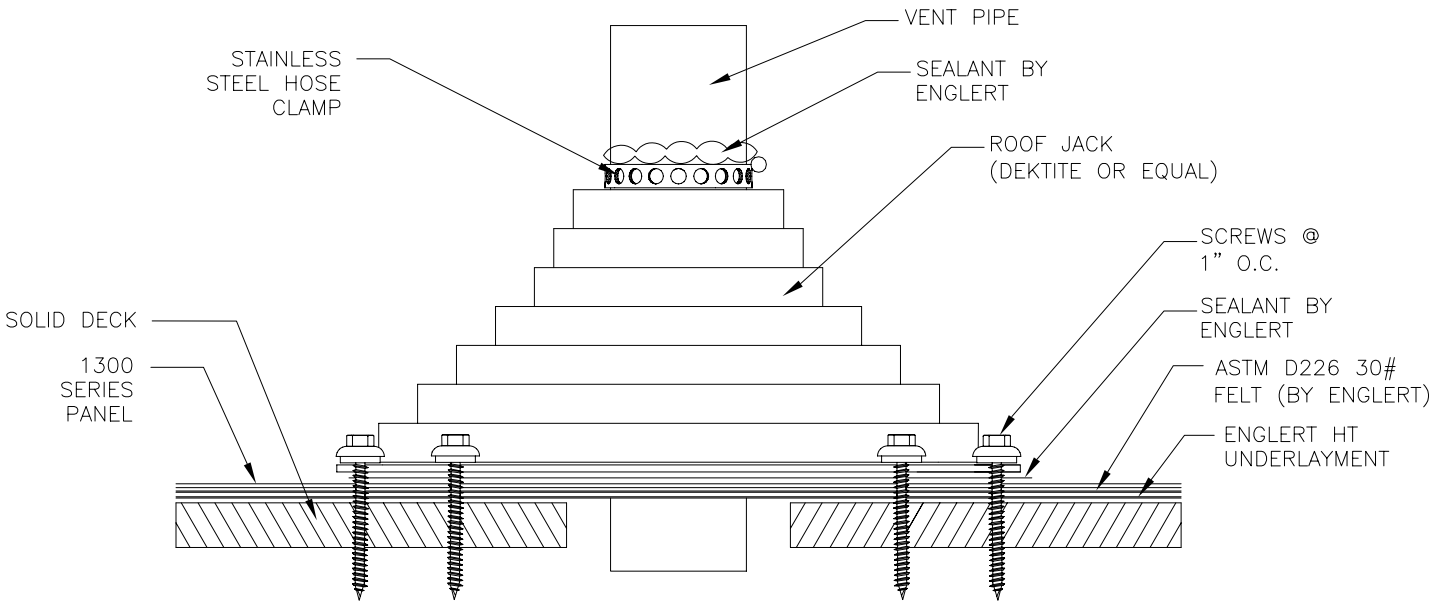
TYPICAL PENETRATION DETAIL



NOTES:

1) THE VENT PIPE MUST BE EXTENDED THROUGH THE FLAT OF THE PANEL.
2) CUT THE PANEL TO FIT THE PIPE PROPERLY.
3) TRIM THE ROOF JACK SO THAT THE PIPE WILL FIT SNUGLY AND INSTALL OVER THE PIPE.
4) APPLY SEALANT BETWEEN THE PANEL AND THE BASE FASTENING RING OF THE ROOF JACK.
5) ATTACH THE BASE OF THE ROOF JACK TO THE PANEL USING #1/4-14X7/8" STITCH XL FASTENERS @ 1" O.C.
6) APPLY SEALANT BETWEEN THE PIPE AND THE TOP OF THE ROOF JACK.
7) INSTALL A STAINLESS STEEL CLAMPING RING SNUGLY AROUND THE TOP OF THE ROOF JACK.



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