CEE-LOCK PANEL INSTALLATION DETAILS

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

800-669-0009 • www.Berridge.com

A. **BERRIDGE ALUMINUM CEE–LOCK PANEL:** THE BERRIDGE CEE–LOCK PANEL IS AVAILABLE WITH A FIXED PAN WIDTH OF 16½" WITH A SEAM HEIGHT OF 1½". THE CEE–LOCK PANELS IS FACTORY FABRICATED AND/OR FIELD FABRICATED USING THE BERRIDGE CL–21 PORTABLE ROLL FORMER. ALTERNATE 11½" PROFILE IS FACTORY FABRICATED AND/OR FIELD FABRICATED USING THE BERRIDGE CL–16 PORTABLE ROLL FORMER. CONTACT BERRIDGE MANUFACTURING FOR AVAILABILITY OF 11½" PROFILE.

WHEN SPECIFYING COIL FOR FIELD FORMED PANELS, ORDER 20⅞" WIDE COIL TO FORM THE 16½" COVERAGE PANEL WITH 1½" HIGH LEG. WHEN SPECIFYING COIL FOR FIELD FORMED PANELS, ORDER 15⅞" WIDE COIL TO FORM THE 11½" COVERAGE PANEL WITH 1½" HIGH LEG. PLEASE CONTACT BERRIDGE MANUFACTURING FOR FURTHER INFORMATION REGARDING THE BERRIDGE CL–21 OR CL–16 PORTABLE ROLL FORMERS.

B. **MINIMUM SLOPE:** THE CEE–LOCK PANEL IS RECOMMENDED FOR ROOF SLOPES OF 1:12 AND GREATER. IN HEAVY SNOW AREAS OR WHERE NUMEROUS FREESE–THAW CYCLES ARE PREVALENT THROUGHOUT THE WINTER, A MINIMUM ROOF SLOPE OF 2 ON 12 IS RECOMMENDED.

C. **MATERIAL STORAGE:** CAUTION MUST BE EXERCISED IN STORAGE OF MATERIAL PRIOR TO INSTALLATION. KEEP ALL BERRIDGE PREFINISHED MATERIAL IN A DRY LOCATION WITH ADEQUATE VENTILATION AND OUT OF DIRECT SUNLIGHT.

EXPOSURE TO DIRECT SUNLIGHT AND/OR MOISTURE MAY CAUSE THE FACTORY APPLIED STRIPPABLE PLASTIC FILM TO ADHERE TO THE METAL PERMANENTLY AND DISCOLOR THE FINISH. IF THIS SHOULD OCCUR THE PAINT WARRANTY WILL BE VOID.

D. **STRIPPABLE FILM:** THE STRIPPABLE PLASTIC FILM WHICH IS APPLIED OVER MOST BERRIDGE PREFINISHED PRODUCTS, PANELS, FLASHINGS, COILS AND FLAT SHEETS MUST BE REMOVED PRIOR TO INSTALLATION

E. **SOLID SHEATHING REQUIREMENTS:** BERRIDGE MANUFACTURING COMPANY RECOMMENDS THE USE OF EITHER A MINIMUM 22 GAUGE CORRUGATED METAL DECK OR A MINIMUM OF 1/2" WOOD SHEATHING TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS. CONTACT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT FOR USE OF ANY OTHER TYPE OF SOLID SHEATHING. SUBSTRATE SHOULD BE LEVEL TO 1/4" IN 20'–0".

FOR ASSEMBLIES WITH RIGID INSULATION OVER THE STRUCTURAL DECK, PROVIDE WOOD BLOCKING EQUAL TO THE DEPTH OF THE INSULATION AT THE PERIMETERS.

NOTE: FOR PROJECTS REQUIRING UL 90 ASSEMBLY, REFER TO UL 90 DETAILS.

F. SHEATHING INSPECTION:

1. SHEATHING END JOINTS SHOULD BE STAGGERED.
2. ALL END JOINTS SHOULD MEET AT EITHER A JOIST OR RAFTER.
3. BLOCKING OR "H" CLIPS SHOULD BE USED IF JOINTS DO NOT REMAIN FLAT UNDER THE WEIGHT OF WORKMEN.
4. USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN; UNEVEN SUBSTRATE WILL RESULT IN "OIL–CANNING" IN THE PANELS. SUBSTRATE SHOULD BE LEVEL TO 1/4" IN 20'–0".
5. ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.
6. USE WOOD FRAMED CRICKETS AT LARGE PENETRATIONS.
7. MAKE SURE SUBSTRATE JOINTS ARE TIGHT AT ALL HIPS, VALLEYS AND RIDGES.

G. FASCIA/RAKE INSPECTION:

1. STRIKE A LINE THE FULL LENGTH OF THE FASCIA OR RAKE. IF NOT STRAIGHT, CORRECT WITH SHIMS.

2. MAKE SURE FASCIA/RAKE IS FLUSH WITH SHEATHING.

H. UNDERLAYMENT: A BERRIDGE APPROVED 40 MIL MINIMUM, HIGH TEMPERATURE PEEL & STICK UNDERLAYMENT MUST BE APPLIED OVER SOLID SHEATHING AS SHOWN IN THE BERRIDGE MANUFACTURING COMPANY TYPICAL CEE–LOCK, AND UNDERLAYMENT INSTALLATION DETAILS. THE USE OF ADDITIONAL LAYERS OF UNDERLAYMENT IS REQUIRED ON LOW–SLOPED ROOFS, AT ALL VALLEY CONDITIONS, AT ROOF PENETRATIONS, AND CERTAIN OTHER FLASHING CONDITIONS AS DEPICTED THROUGHOUT THE CEE–LOCK TYPICAL DETAILS. BERRIDGE REQUIRES STRIP IN LAYERS OF UNDERLAYMENT TO BE MINIMUM 36" OR A FULL ROLL AT VALLEY FLASHING AND SQUARE ROOF PENETRATION LOCATIONS, AND MINIMUM 12" AT ALL OTHER FLASHING LOCATIONS. FOR ALL WATERTIGHTNESS WARRANTIES, THE UNDERLAYMENT MUST BE SELECTED FROM THE BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT AND SEALANTS LIST. BOTH UNDERLAYMENT INSTALLATION DETAILS AND APPROVED UNDERLAYMENTS AND SEALANTS LIST CAN BE FOUND ON BERRIDGE'S WEBSITE: WWW.BERRIDGE.COM

APPROVED UNDERLAYMENTS AND SEALANTS

UNDERLAYMENT INSTALLATION DETAILS

I. UNDERLAYMENT INSTALLATION:

1. DO NOT USE ROSIN PAPER UNDER METAL ROOFING PANELS.

2. SWEEP ROOF AREA CLEAN.

3. INSTALL VALLEY UNDERLAYMENT FIRST.

4. INSTALL UNDERLAYMENT PARALLEL TO EAVE (2 LAYERS REQUIRED AT EAVE), STARTING AT EAVE AND USING MINIMUM 6" LAPS. USE BERRIDGE APPROVED PEEL AND STICK ON ENTIRE ROOF SHEATHING, AS SHOWN IN THE CEE–LOCK DETAILS. 2 LAYERS REQUIRED AT EAVE REGARDLESS OF SLOPE.

5. REFER TO UNDERLAYMENT DETAILS WHEN VALLEYS OR ROOF PENETRATIONS ARE INVOLVED.

6. INSULATE BETWEEN WOOD BLOCKING AND METAL WITH BERRIDGE APPROVED PEEL AND STICK UNDERLAYMENT.

7. BERRIDGE RECOMMENDS STRIP IN LAYERS OF UNDERLAYMENT TO BE MINIMUM 36" OR A FULL ROLL AT VALLEY FLASHING AND SQUARE ROOF PENETRATION LOCATIONS, AND MINIMUM 12" AT ALL OTHER FLASHING LOCATIONS.

J. THERMAL MOVEMENT: EXPANSION AND CONTRACTION OF METAL PANELS WHICH EXCEED THIRTY FEET IN LENGTH CAN BE A FACTOR IN THE DESIGN AND INSTALLATION OF FLASHING. PLEASE REFER TO THE LINEAR EXPANSION CHART ON PAGE CAI–6 (AL) TO DETERMINE ANTICIPATED THERMAL MOVEMENT OF THE PANELS. IMPROPERLY DESIGNED FLASHING CAN ALLOW PANELS TO DISENGAGE FROM THE FLASHING, ALLOW OIL–CANNING IN THE PANEL AND/OR CAUSE FLASHING TO WORK LOOSE FORM ITS ANCHORAGE.

K. ELECTROLYSIS: AVOID ALLOWING FLASHINGS AND PANELS TO COME INTO CONTACT WITH EITHER LEAD OR COPPER AND PREVENT EXPOSURE TO WATER RUNDOWN FROM COPPER AND/OR LEAD.

L. SEALANT REQUIREMENTS: FOR A FULL LIST OF APPROVED SEALANTS VISIT: WWW.BERRIDGE.COM

APPROVED UNDERLAYMENTS AND SEALANTS

N. FLASHING: IF BERRIDGE MANUFACTURING COMPANY IS TO SUPPLY FLASHINGS, ALL FLASHINGS WILL BE FABRICATED IN 10'–0" LENGTHS WITH SQUARE END CUTS ONLY. THE PURCHASER MUST PROVIDE ALL DIMENSIONS AND DEGREE OF ANGLES.

FLASHING INSTALLATION:

1. REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS PRIOR TO INSTALLATION.

2. ALWAYS STAGGER JOINTS WHEN ONE FLASHING IS INSTALLED OVER OTHER FLASHINGS.

3. INSTALL ALUMINUM FLASHINGS WITH A 1/4" GAP BETWEEN NOTCH AND OVERLAP IN THE LAPS FOR THERMAL MOVEMENT. ALL ALUMINUM FLASHINGS MUST BE FASTENED 5" AWAY FROM THE 4" OVERLAP.

4. INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.

5. ALL FLASHINGS ARE TO BE DESIGNED AND INSTALLED TO NOT TRAP WATER.

NOTE: WHEN USING POP RIVETS ON ALUMINUM FLASHING, STAINLESS STEEL RIVETS ARE REQUIRED. DO NOT RIVET THROUGH END LAPS. USE #12 PANCAKE HEAD STAINLESS STEEL FASTENERS FOR FLASHING INSTALLATION. MAKE SURE ALL FASTENERS ARE DRIVEN STRAIGHT AND SET FLAT. DO NOT OVERDRIVE FASTENERS AS THIS WILL CAUSE THE FLASHINGS TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE..

O. PANELS: BERRIDGE MANUFACTURING COMPANY WILL PROVIDE SQUARE END CUTS ONLY ON ALL CEE–LOCK PANELS. COMPUTATION OF ALL QUANTITIES AND DIMENSIONS ARE THE RESPONSIBILITY OF THE PURCHASER. PANELS ARE TO BE FIELD CUT WITH SNIPS, NIBBLER, AND/OR SHEARS ONLY.

P. PANEL INSTALLATION:

1. REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL PRIOR TO INSTALLATION.

2. START PANEL INSTALLATION AT GABLE END OF THE ROOF, WORKING TOWARD THE OTHER GABLE END. MAKE SURE PANELS ARE PERPENDICULAR TO THE EAVE. AT VALLEY AREAS, MAKE SURE PANELS ARE INSTALLED SO THAT DRAINAGE HAS FREE FLOW AND IS NOT OBSTRUCTED BY PANEL SEAMS.

3. BEGIN BY INSTALLING DRIP FLASHING OR CLOSURE FLASHING AT GABLE THEN PLACING THE FIRST CEE–LOCK PANEL.

4. INSTALL STAINLESS STEEL CEE–LOCK CLIPS AS PER BERRIDGE TYPICAL DETAILS AND CEE–LOCK INSTALLATION NOTES.

5. IF OPTIONAL VINYL WEATHERSEAL (US PATENT 4,641,475) IS TO BE USED, THIS WILL BE EITHER FACTORY INSTALLED OR INSTALLED IN THE FIELD AS THE CEE–LOCK PANEL EXITS FROM THE CL–21 OR CL–16 PORTABLE ROLL FORMER. VINYL WEATHERSEAL IS REQUIRED FOR WATERTIGHTNESS WARRANTIES.

6. INSTALL PANELS BY PLACING THE FEMALE LEG OVER THE MALE LEG AND STAINLESS STEEL CEE–LOCK CLIP AND SNAPPING THE INTEGRAL SEAM INTO PLACE WITH HAND PRESSURE. (ALTERNATE METHOD TO SNAP SEAMS TOGETHER IS TO PLACE A 2X4 PIECE OF LUMBER OVER THE CEE–LOCK PANEL SEAM AND STRIKE IT WITH A MALLET TO LOCK THE PANEL TOGETHER) DO NOT USE EXCESSIVE FORCE OR FOOT PRESSURE, DO NOT KICK, STOMP OR DIRECTLY HAMMER TO ENGAGE THE PANEL SIDE LAP. AS THIS WILL SCRATCH OR DENT THE PANEL, DAMAGE THE PANEL RIB/CLIP AND CAUSE DEFORMATION TO THE VINYL WEATHERSEAL.

7. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LEGS.

8. KEEP PANELS ALIGNED SO THAT SEAMS MATCH AT HIPS, VALLEYS AND WHERE VERTICAL PANELS ADJOIN ROOF PANELS. DO NOT INSTALL LONG CONTINUOUS RUNS OF PANELS ALL AT ONE TIME WHERE SEAM LINES MUST MATCH. INSTALL 10 OR 12 PANELS IN ONE ELEVATION ANDN THEN FOLLOW WITH A LIKE NUMBER OF PANELS ON THE OTHER ELEVATION. WHEN YOU INSTALL PANELS IN THIS MANNER, YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO INSURE SEAM MATCHING.

9. METALLIC FINISHES:
PANEL INSTALLATION: NOTE THE SERIES OF ARROWS PAINTED ON THE UNDERSIDE OF THE PANEL. ALL PANELS MUST BE INSTALLED IN CONSISTENT MANNER, MEANING THAT THE ARROWS ON EVERY PANEL ARE ALL POINTING IN THE SAME DIRECTION. IF A PANEL IS REVERSED (ARROWS POINTING OPPOSITE OF THOSE ON OTHER PANELS) IT WILL APPEAR FROM A DISTANCE, A DIFFERENT SHADE DUE TO THE GRANULAR EFFECT OF THE PIGMENTS IN THE FINISH. **METALLIC FINISHES ARE MATCH – LOT FINISHES. DO NOT MIX LOTS.**

Q. **STAINLESS STEEL CEE–LOCK CLIPS:**

1. INSTALL STAINLESS STEEL CEE–LOCK CLIPS AS PER BERRIDGE TYPICAL CEE–LOCK PANEL DETAILS.

***NOTE: IF LOCAL CODES OR OTHER REGULATIONS DICTATE SPECIFIC WIND UPLIFT REQUIREMENTS, CONSULT BERRIDGE ENGINEERING DEPARTMENT, AS IT MAY BE NECESSARY TO USE A DIFFERENT FASTENER PATTERN.**

R. **FASTENERS:** INSTALL FASTENERS AS PER TYPICAL DETAILS. USE LOAD CHARTS UNDER THE "DOWNLOADS" TAB ON WWW.BERRIDGE.COM FOR FASTENER RECOMMENDATIONS ACCORDING TO SUBSTRATE.**

CEE–LOCK LOAD CHARTS

MAKE SURE ALL FASTENERS ARE DRIVEN STRAIGHT AND SET FLAT. DO NOT OVERDRIVE FASTENERS AS THIS WILL CAUSE THE CLIP AND/OR FLASHINGS TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.

****CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING THE USE OF ANY OTHER TYPE OF FASTENER.**

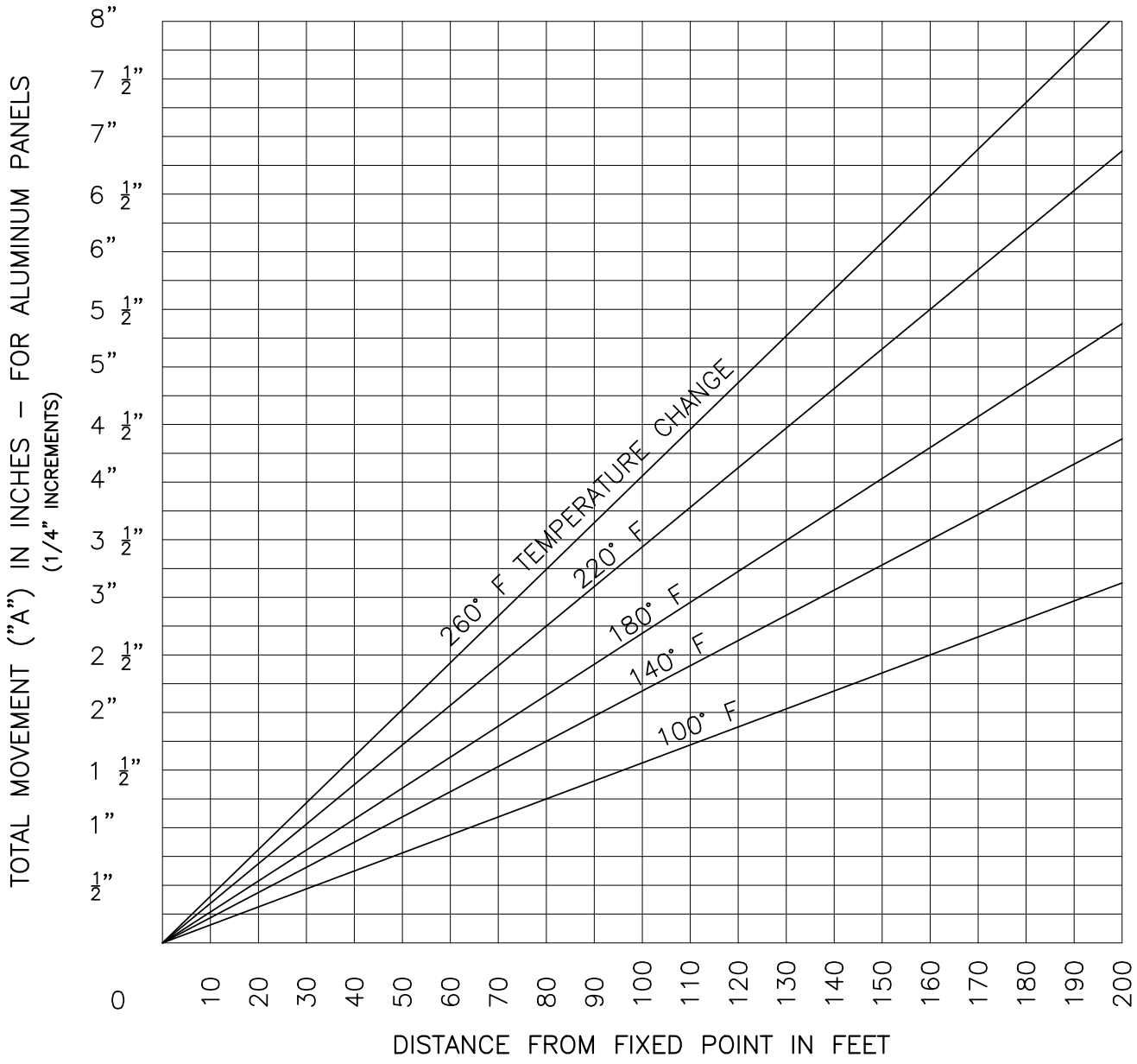
S. **UNDERWRITERS LABORATORIES RATINGS:** THE BERRIDGE CEE–LOCK PANEL COMPLIES WITH UL TEST PROCEDURE NO. 580 "TEST FOR WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES" CLASS UL 90 CONSTRUCTIONS REFER TO DETAILS CLA–90 & CLA–91.

BERRIDGE MANUFACTURING COMPANY STRIVES TO PROVIDE ITS CUSTOMERS WITH THE HIGHEST QUALITY STRETCHER LEVELED STEEL AVAILABLE. THE LATEST TECHNOLOGY IS ALSO INCORPORATED IN BERRIDGE'S HIGH–PRECISION COIL HANDLING AND ROLL FORMING EQUIPMENT TO MINIMIZE THE STRESS ON METAL DURING PRODUCTION. ALL THESE MEASURES HAVE BEEN TAKEN TO MINIMIZE THE AMOUNT OF "OIL–CANNING" (WAVINESS) WHICH IS NATURALLY INHERENT IN FLAT SHEET METAL. MANY TIMES; HOWEVER, THE CAUSE OF WAVINESS OR "OIL–CANNING" CAN BE TRACED TO UNEVEN SHEATHING, IMPROPER UNDERLAYMENT INSTALLATION, OR IN THE CASE OF OPEN FRAMING, UNEVENNESS OF THE TOP PLANE OF THE PURLINS OR FOOT TRAFFIC ON THE PANELS.

ALL ARCHITECTURAL PANELS REQUIRE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING OR DEFORMING THE PANELS.

THESE INSTALLATION INSTRUCTIONS AND THE FOLLOWING TYPICAL DETAILS ARE INTENDED TO PROVIDE OUR CUSTOMERS WITH THE INFORMATION REQUIRED FOR AN AESTHETICALLY PLEASING AND FUNCTIONAL INSTALLATION OF THE BERRIDGE CEE–LOCK PANEL SYSTEM.

NOTE: ALL PRODUCT SPECIFICATIONS, DETAILS AND INSTALLATION INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.



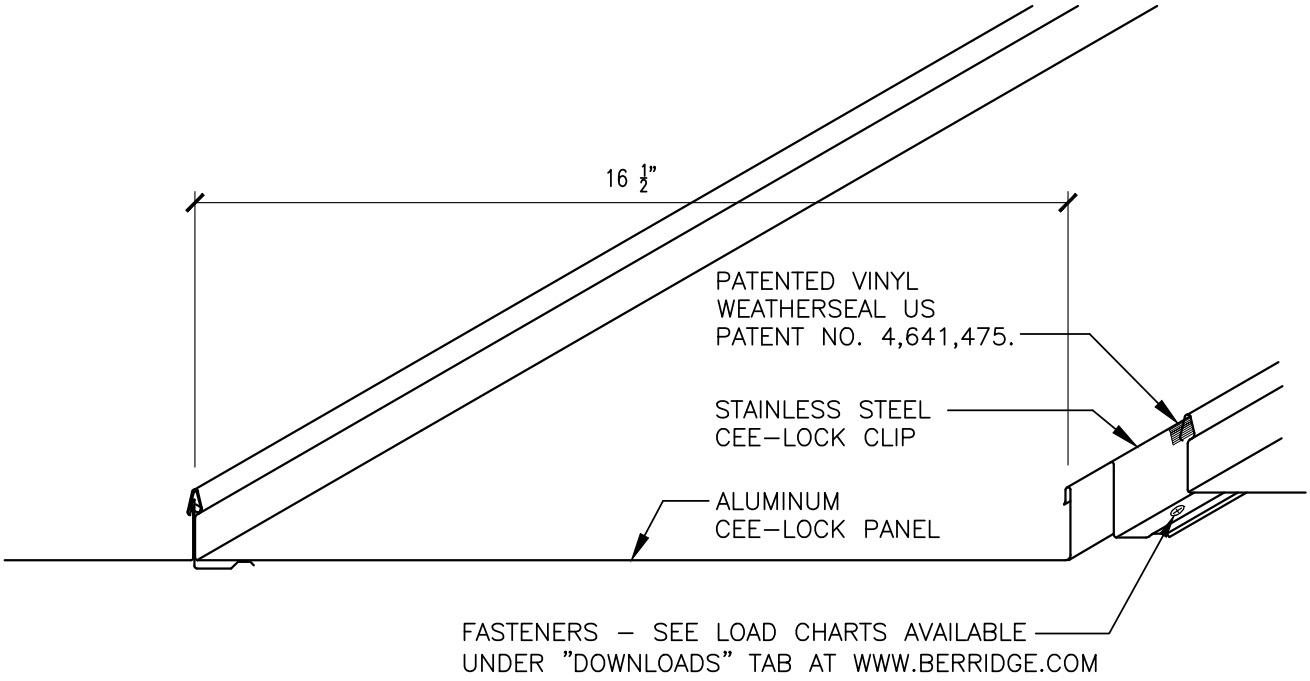
EXPANSION AND CONTRACTION OF ALUMINUM PANELS DUE TO LONGITUDINAL THERMAL MOVEMENT MUST BE CONSIDERED IN BOTH DESIGN AND INSTALLATION. THE ABOVE CHART EMPHASIZES THE NEED TO PROVIDE AMPLE CLEARANCES FROM GUTTERS, RIDGES, ENDWALL, ETC.

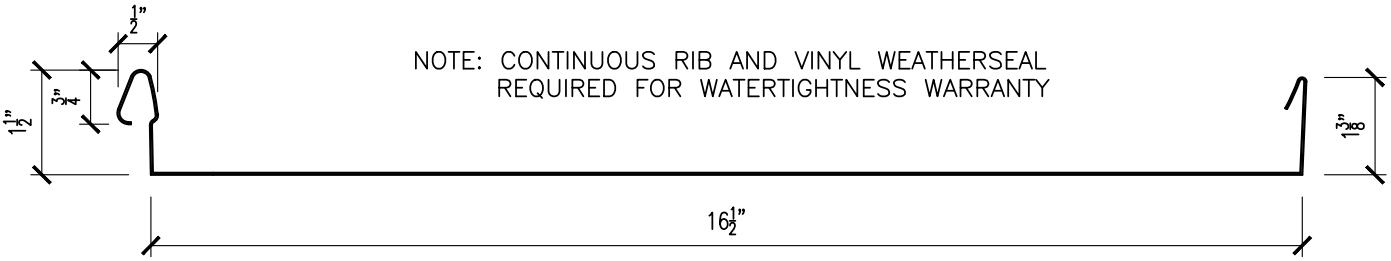
MAXIMUM TEMPERATURE SHOULD BE NO LOWER THAN 140°F FOR WHITE PANELS, UP TO 180° FOR DARK PAINTED PANELS, REGARDLESS OF AMBIENT MAXIMUM, MINIMUM SHOULD BE FIGURED WELL BELOW AMBIENT MINIMUM TO ALLOW FOR RADIATION TO NIGHT SKY. IN ANY CASE, A MINIMUM OF 100°F DIFFERENTIAL IS RECOMMENDED.

THE DETAILS CONTAINED IN THE FOLLOWING PAGES ARE MERELY RECOMMENDATIONS AS TO HOW BERRIDGE MANUFACTURING MATERIALS SHOULD BE INSTALLED. THEY MAY REQUIRE ADAPTATIONS OR MODIFICATIONS FOR A SPECIFIC PROJECT AS CONDITIONS VARY IN BOTH BUILDING DESIGN AND LOCAL WEATHER PECULIARITIES.

BERRIDGE MANUFACTURING COMPANY SHOULD 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/INSTALLER MUST ACCEPT THE RESPONSIBILITY TO ADAPT THESE DETAILS TO MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATERTIGHTNESS.

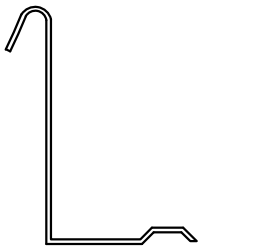
THE INSTALLER CAN VIRTUALLY ASSURE WATERTIGHTNESS IF THESE FLASHING DETAILS HAVE BEEN PROPERLY ADAPTED, ADEQUATE LAPS HAVE BEEN PROVIDED, CORRECT TYPE OF SEALANT USED, ALL JOINTS ADEQUATELY CAULKED, AND PROFESSIONAL WORKMANSHIP EMPLOYED.



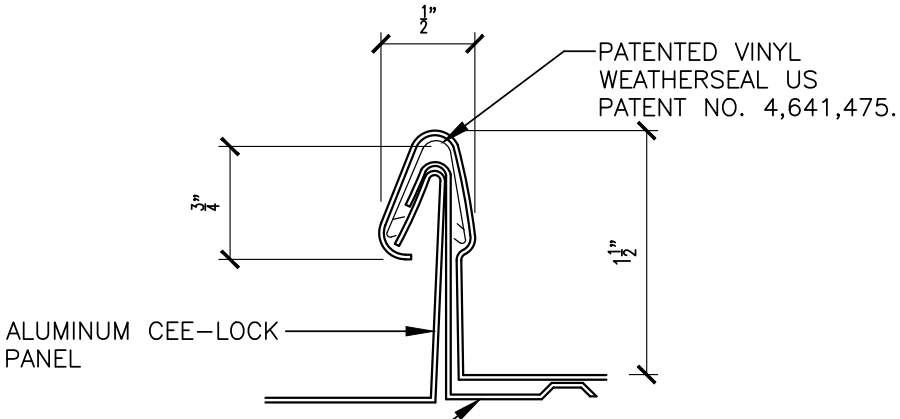


PANEL SECTION – .032 ALUMINUM

CONTACT BERRIDGE MANUFACTURING FOR AVAILABILITY OF THE ALTERNATE 11½" PANEL PROFILE



STAINLESS STEEL
CEE–LOCK CLIP



SEAM SECTION

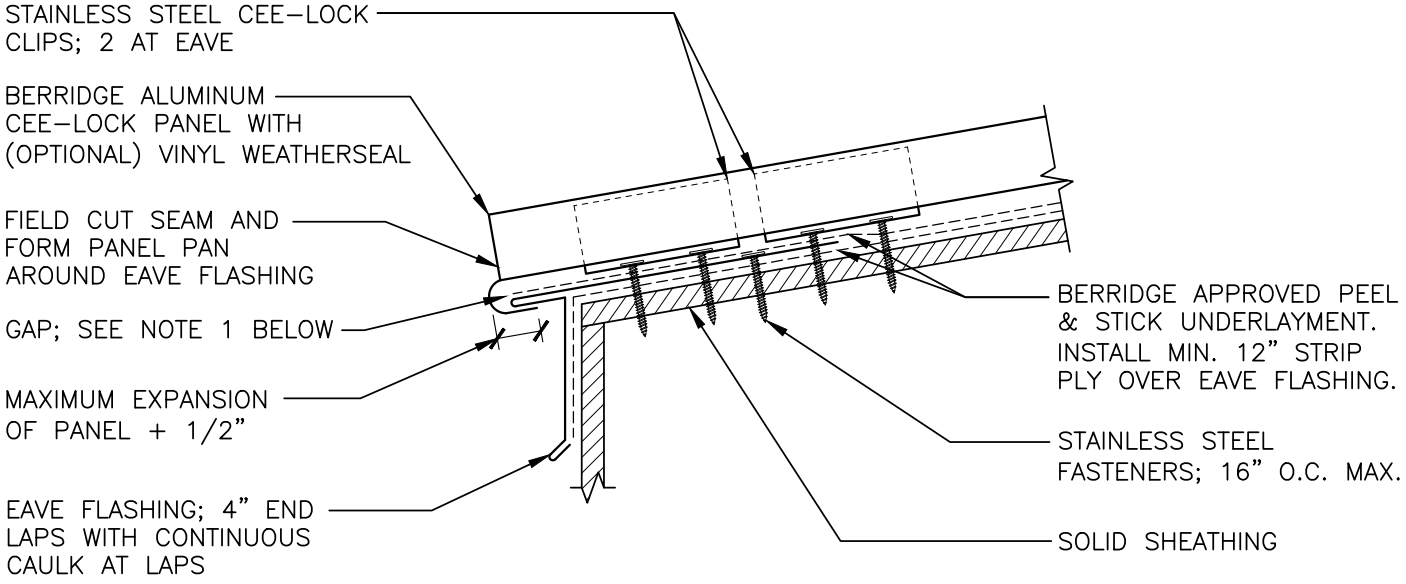
BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

PANEL OVERVIEW

ALUMINUM CEE–LOCK PANEL

DATE: 1/21

PAGE\FILE
CLA–4



NOTE: WHEN USING POP RIVETS ON FLASHING, STAINLESS STEEL RIVETS ARE REQUIRED WITH ALUMINUM PANELS. FLASHINGS MUST NOT BE FASTENED AT LAPS.

1. 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 PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH REFER TO NOMINAL LINEAR EXPANSION CHART

2. GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.

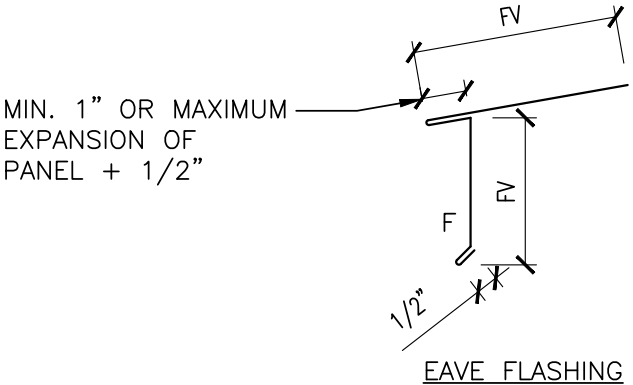
3. SOLID SHEATHING (NOT BY BERRIDGE) TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.

4. INSTALL ALUMINUM FLASHINGS WITH A 1/4" GAP BETWEEN NOTCH AND OVERLAP IN THE LAPS FOR THERMAL MOVEMENT. ALL ALUMINUM FLASHINGS MUST BE FASTENED 5" AWAY FROM THE 4" OVERLAP.

5. REFERENCE BERRIDGE'S WEB SITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE INSTALLATION INSTRUCTIONS & LOAD CHARTS FOR MIN. FASTENER REQUIREMENTS)

NOTE: ALL FLASHING GAUGES TO BE EQUAL TO THE ASSOCIATED PANEL GAUGE UNLESS NOTED OTHERWISE

F = FINISH SIDE
FV = FIELD VERIFY



EAVE FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

EAVE DETAIL PANEL TURNDOWN SOLID SUBSTRATE

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ALUMINUM CEE–LOCK PANEL

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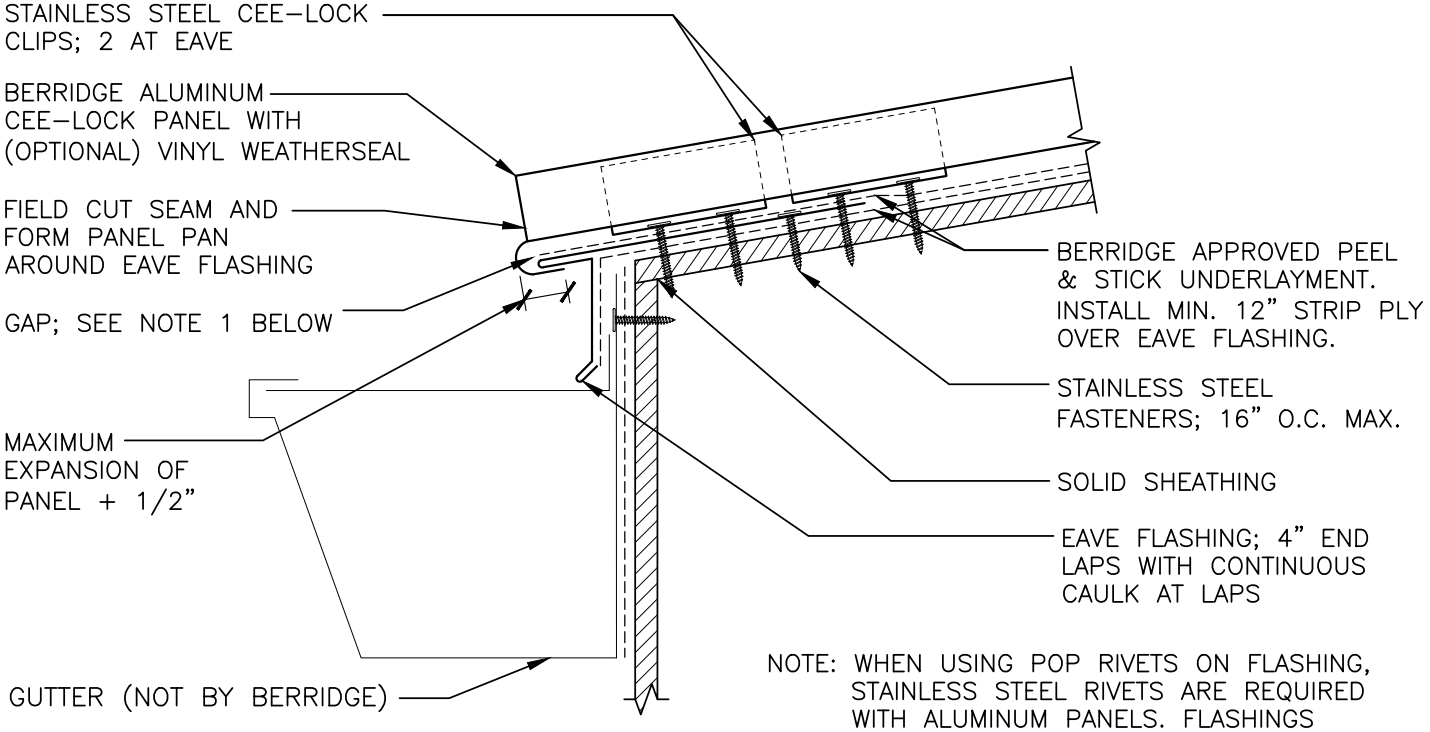

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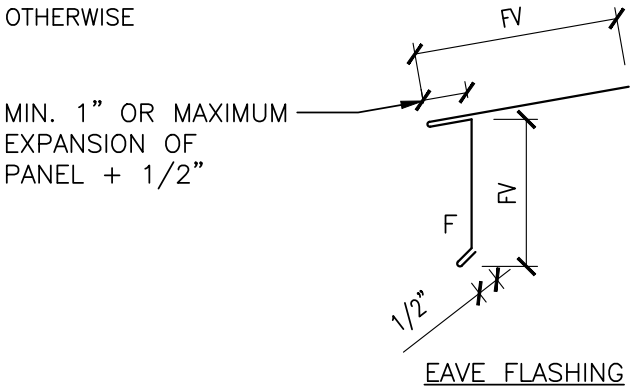

EAVE FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

EAVE WITH GUTTER DETAIL SOLID SHEATHING

DATE: 1/21

ALUMINUM CEE–LOCK PANEL

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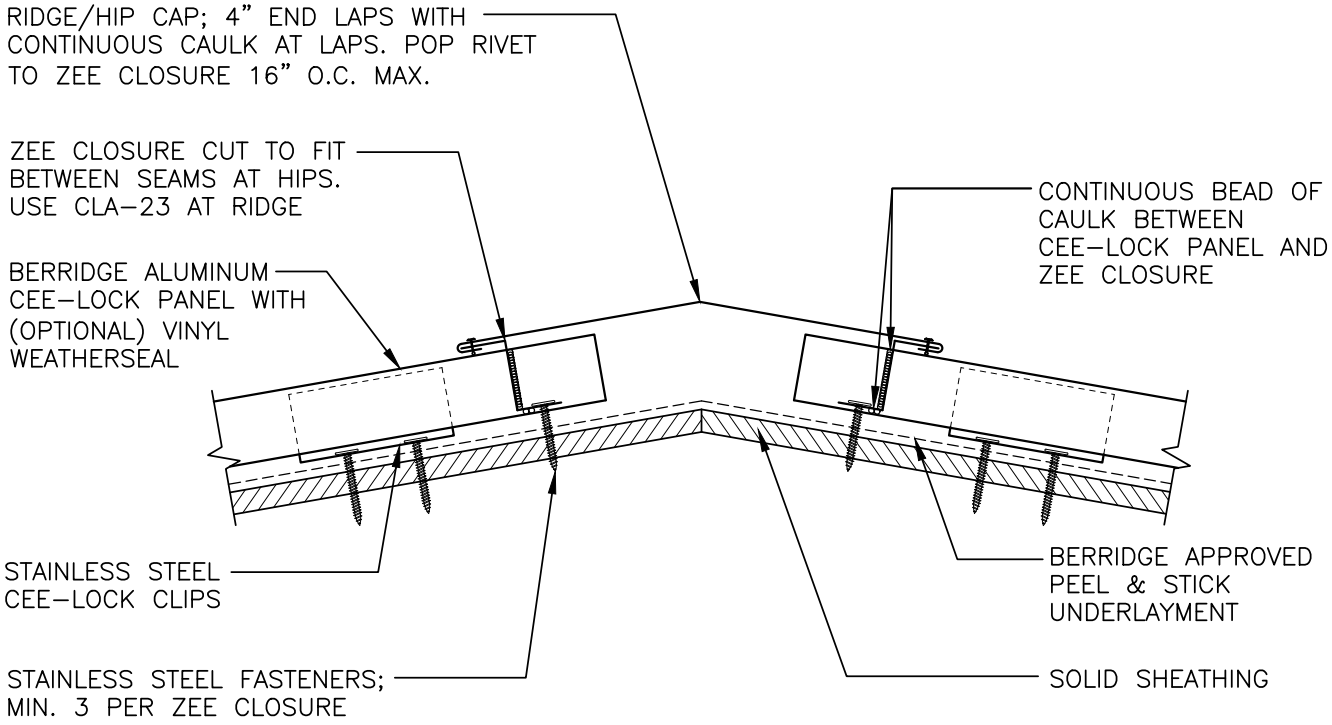

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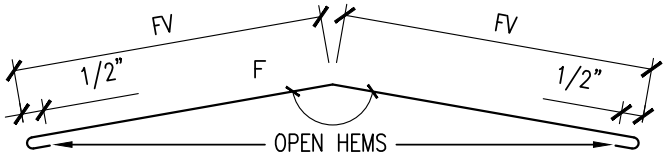
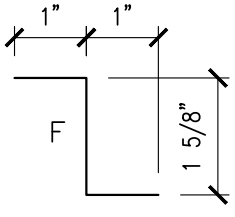


RIDGE/HIP CAP



ZEE CLOSURE

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

RIDGE/HIP DETAIL SOLID SHEATHING

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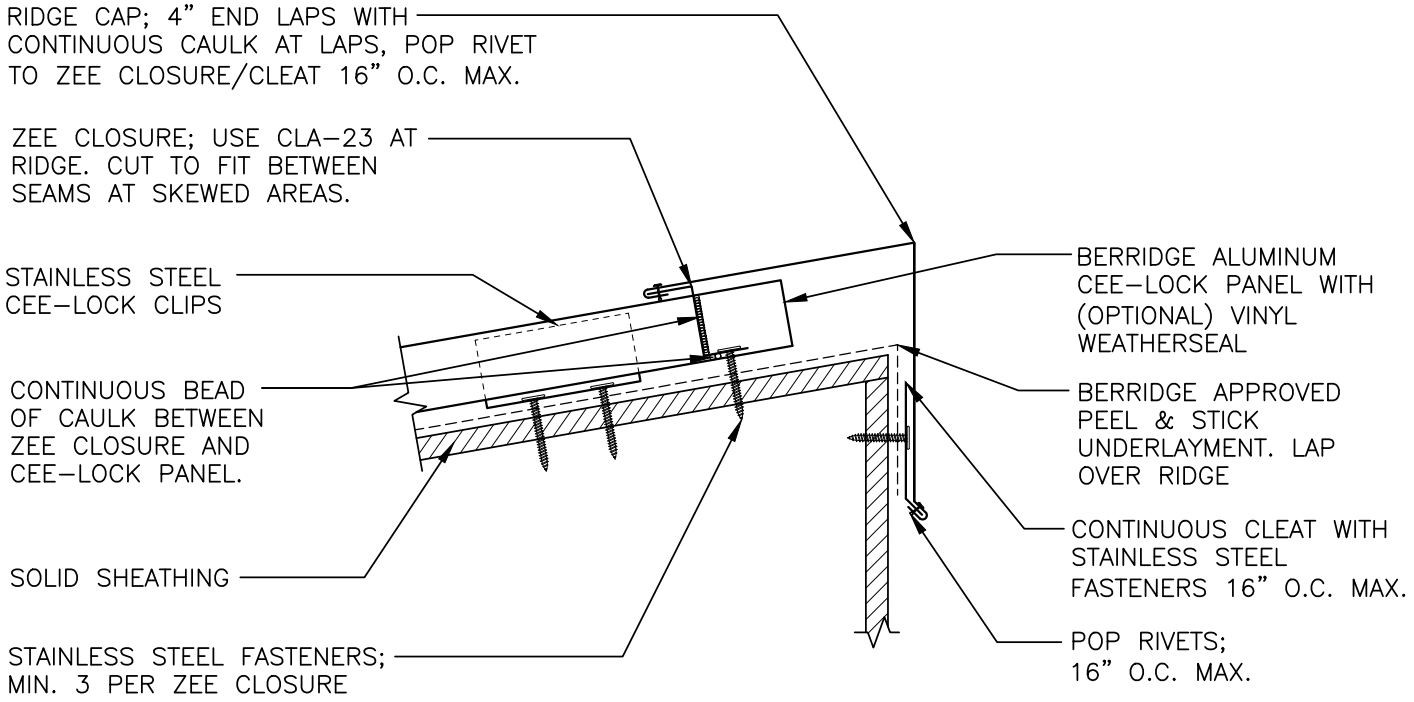
ALUMINUM CEE-LOCK PANEL



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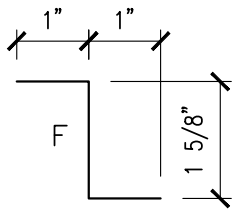
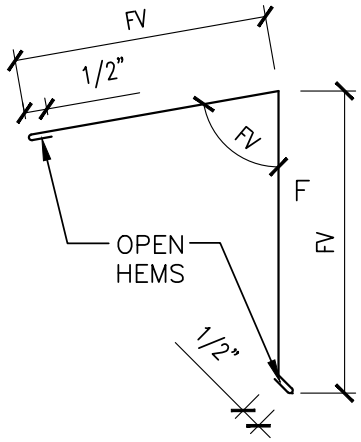
3. REFERENCE BERRIDGE'S WEB SITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE INSTALLATION INSTRUCTIONS & LOAD CHARTS FOR MIN. FASTENER REQUIREMENTS)

NOTE: ALL FLASHING GAUGES TO BE EQUAL TO THE ASSOCIATED PANEL GAUGE UNLESS NOTED OTHERWISE

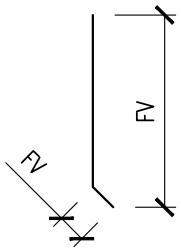
F = FINISH SIDE
FV = FIELD VERIFY



ZEE CLOSURE



RIDGE CAP



CONTINUOUS CLEAT

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

SHED RIDGE DETAIL SOLID SHEATHING

ALUMINUM CEE-LOCK PANEL

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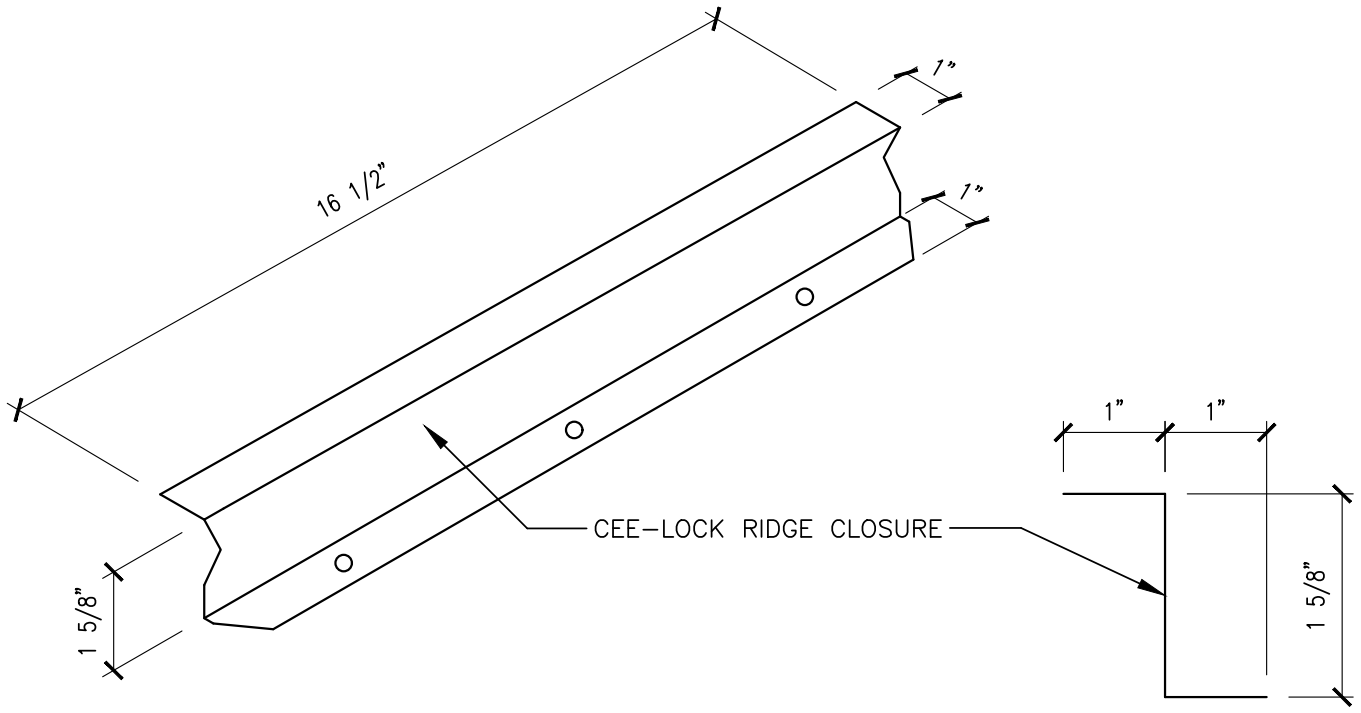
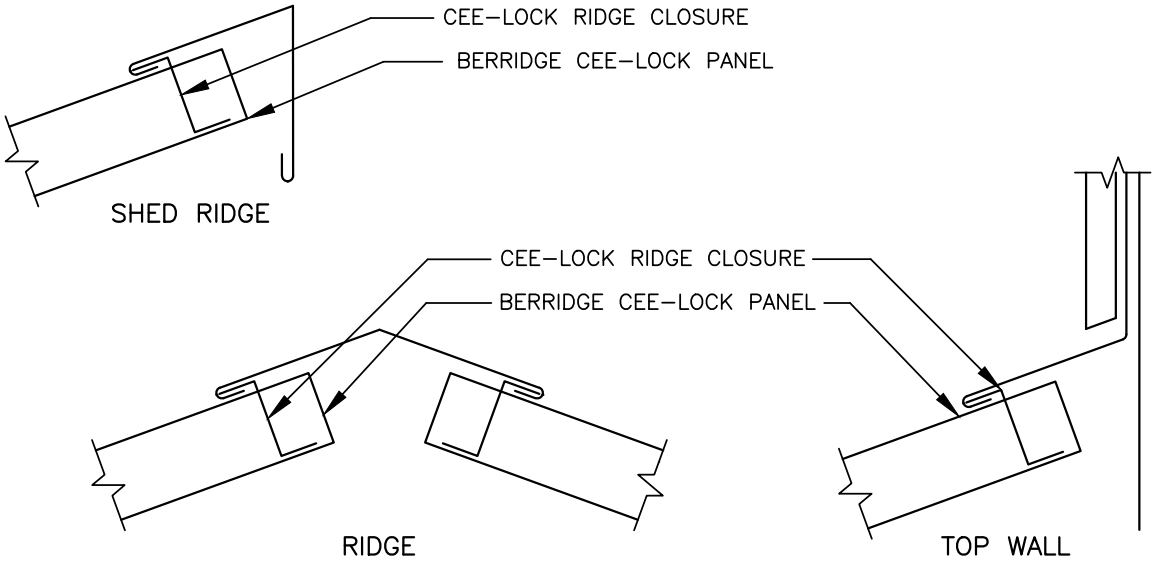


1. ZEE CLOSURE IS DIE FORMED TO FIT PERPENDICULARLY BETWEEN PANEL SEAMS.



BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

CEE–LOCK RIDGE CLOSURE

DATE: 1/21

ALUMINUM CEE–LOCK PANEL

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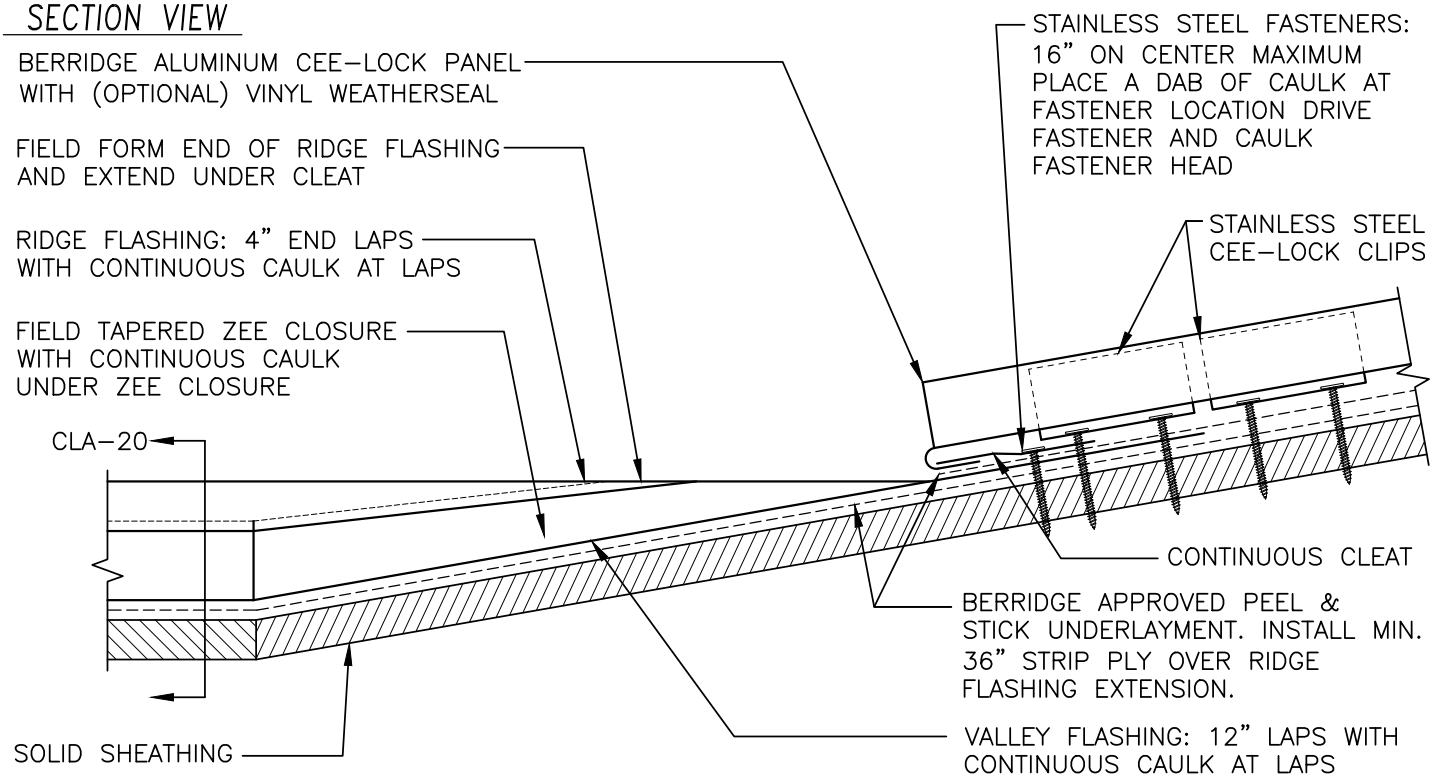
SECTION VIEW



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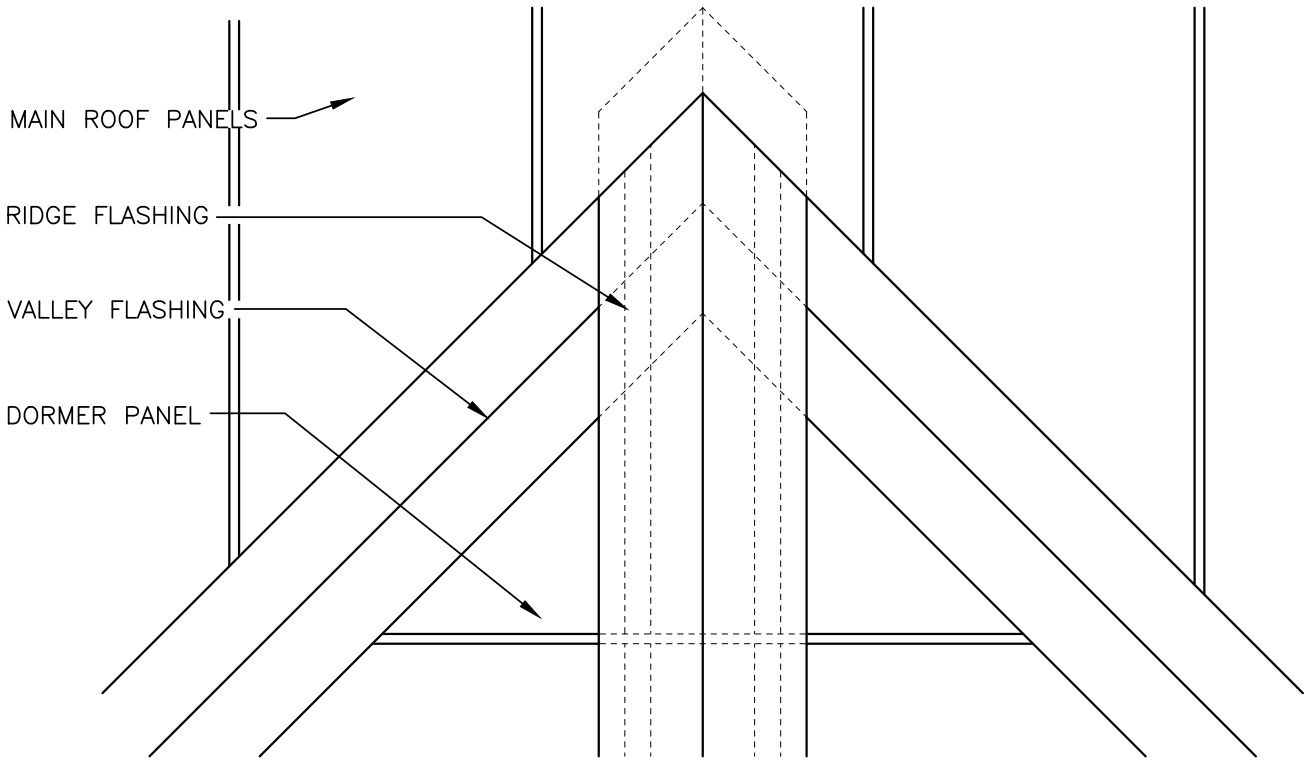
PLAN VIEW



BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

RIDGE TERMINATION SLOPES LESS THAN 3:12

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ALUMINUM CEE–LOCK PANEL

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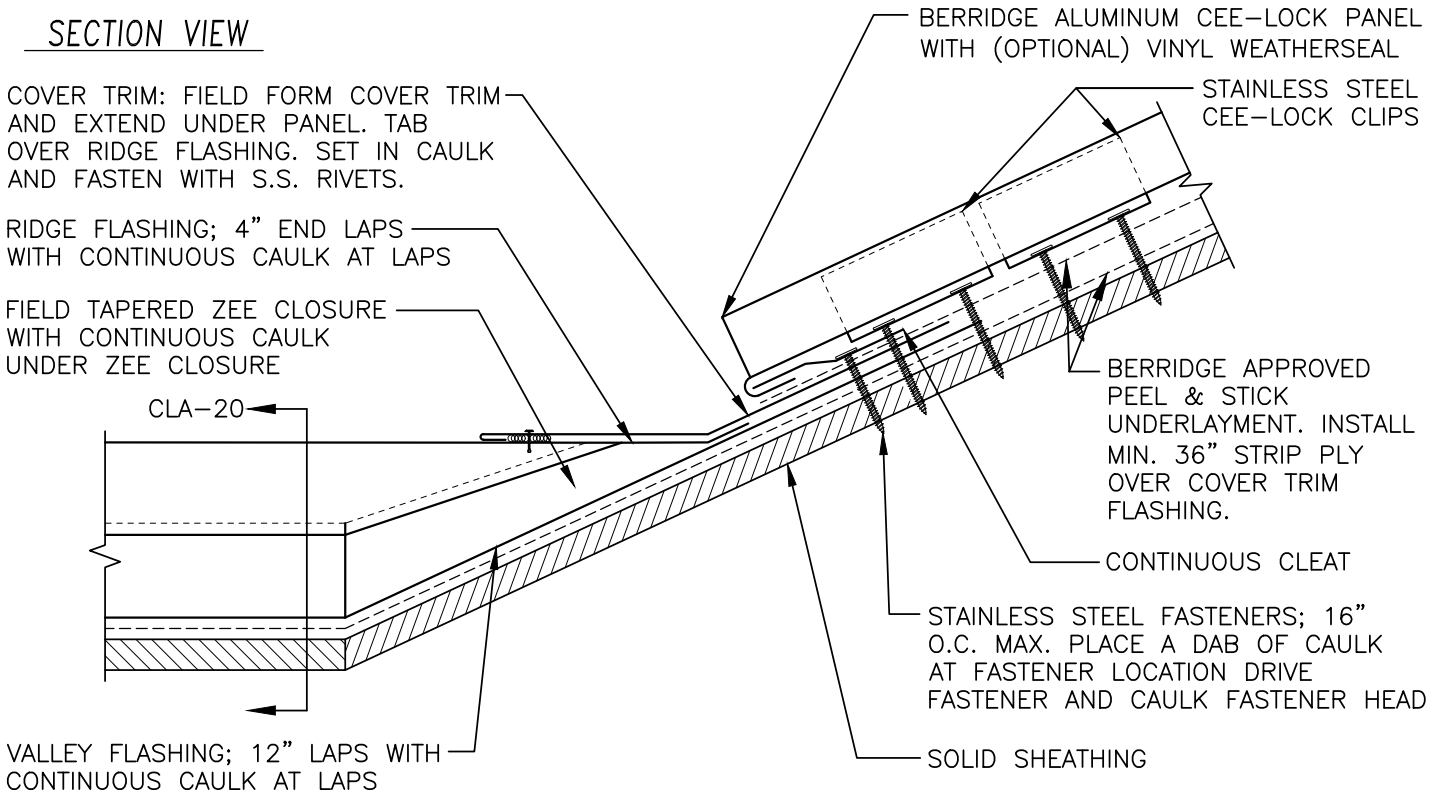
SECTION VIEW



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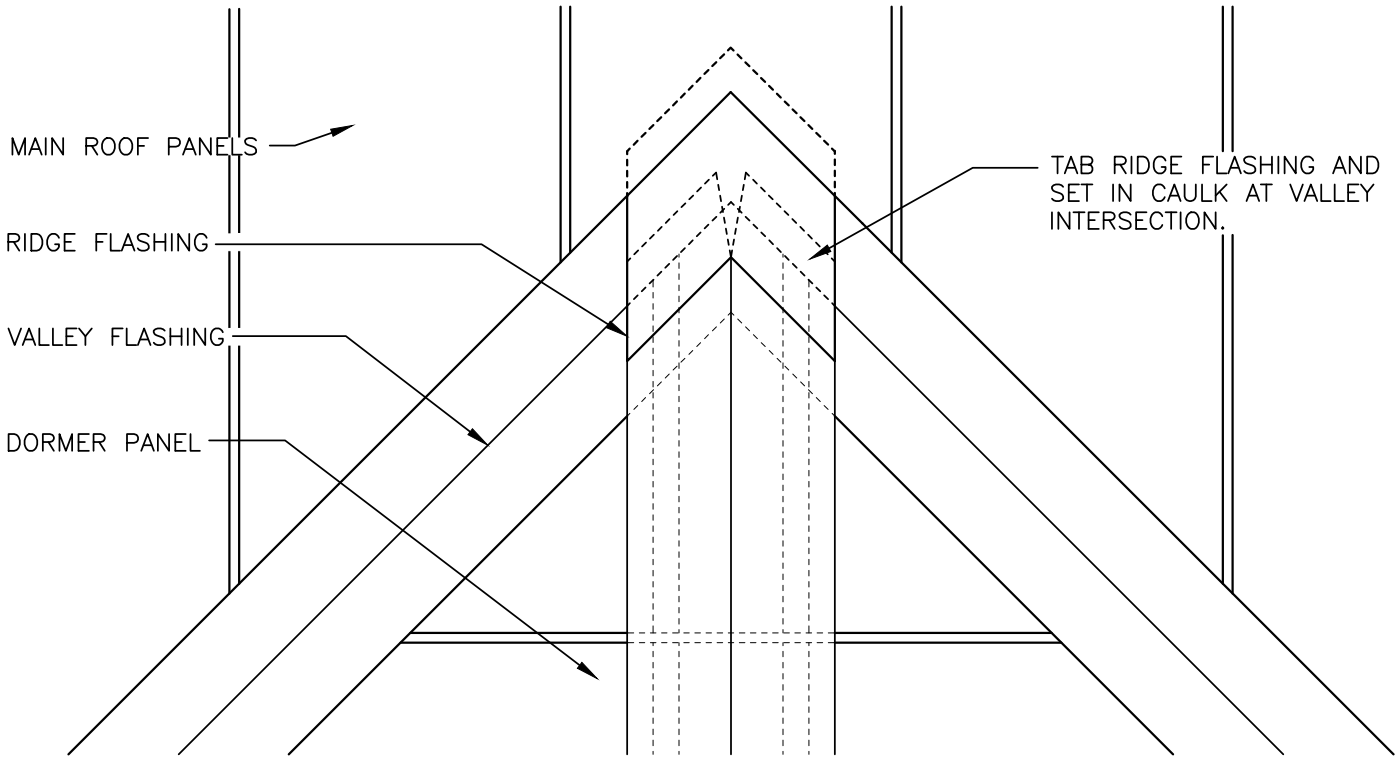
PLAN VIEW



BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

RIDGE TERMINATION SLOPES GREATER THAN 3:12

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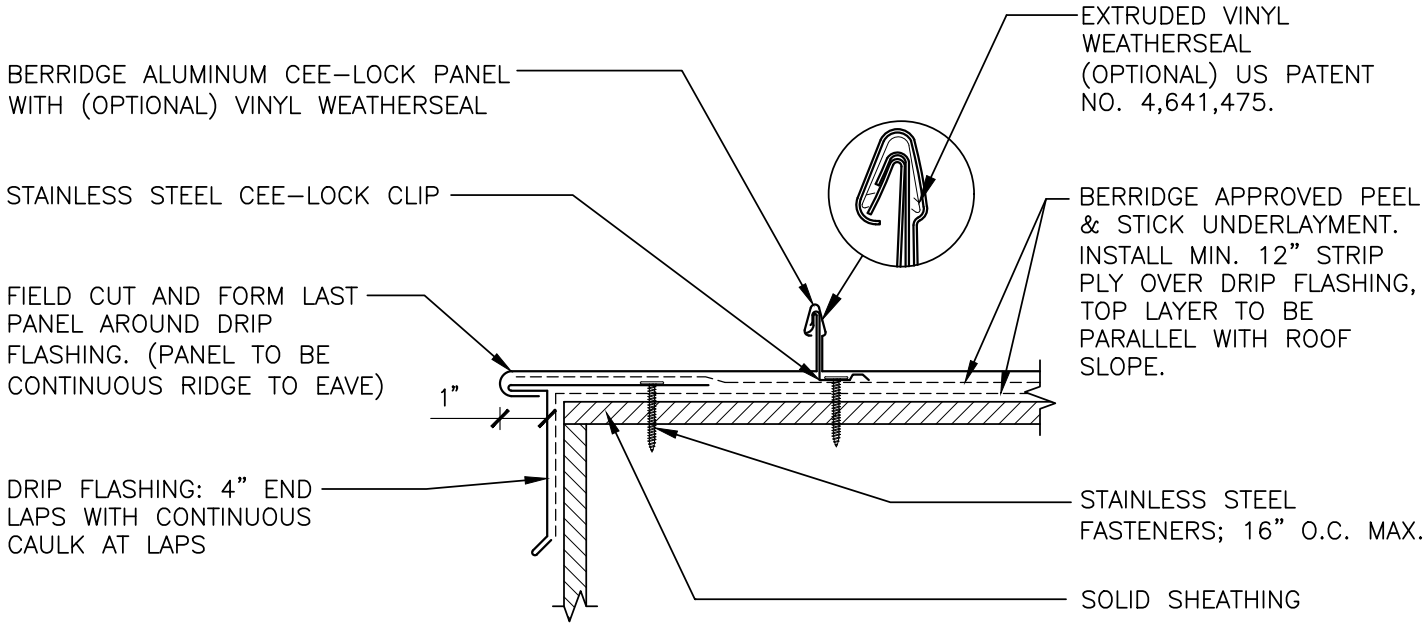
ALUMINUM CEE–LOCK PANEL



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2. INSTALL ALUMINUM FLASHINGS WITH A 1/4" GAP BETWEEN NOTCH AND OVERLAP IN THE LAPS FOR THERMAL MOVEMENT. ALL ALUMINUM FLASHINGS MUST BE FASTENED 5" AWAY FROM THE 4" OVERLAP.

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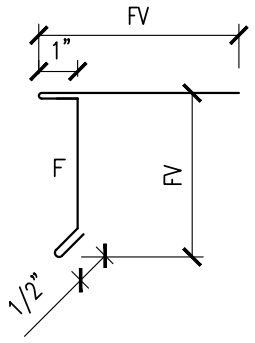

DRIP FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

GABLE DETAIL PANEL TURNDOWN SOLID SUBSTRATE

DATE: 1/21

ALUMINUM CEE–LOCK PANEL

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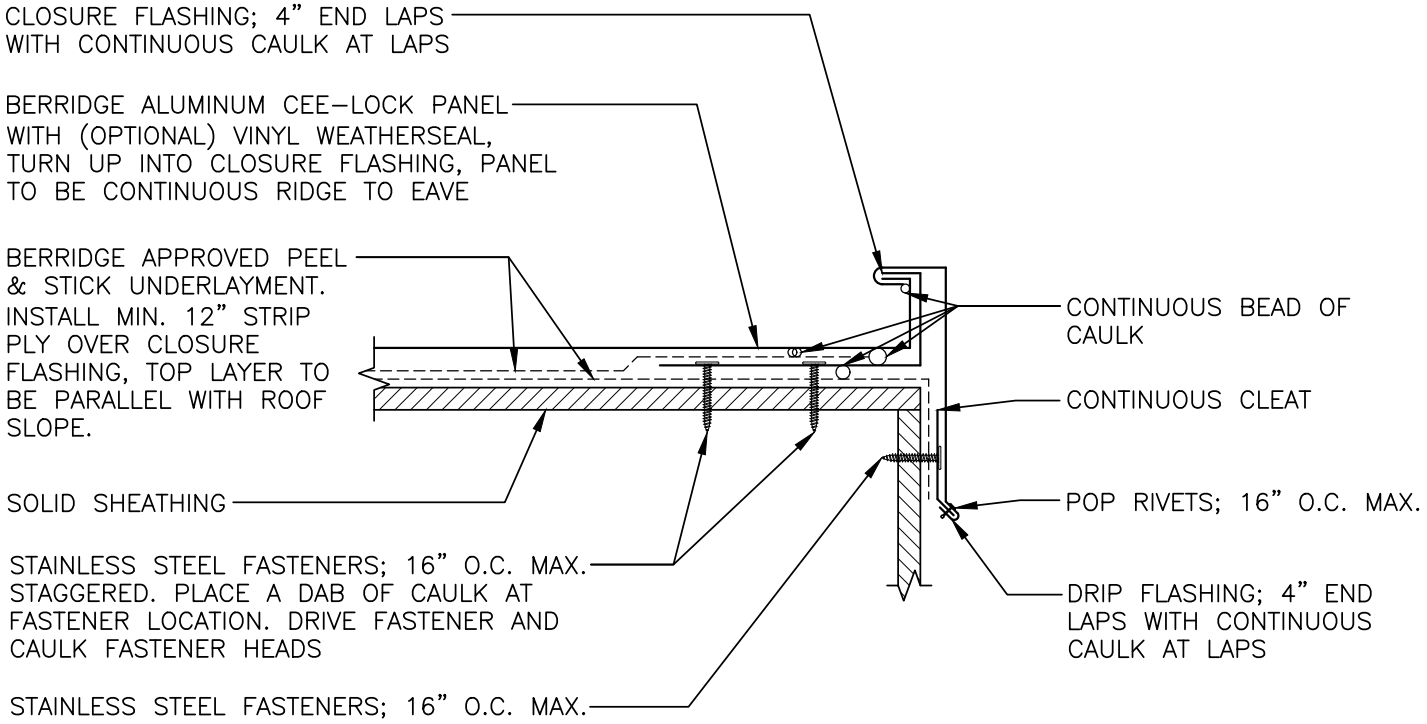

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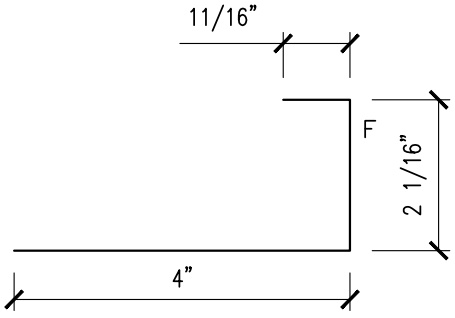

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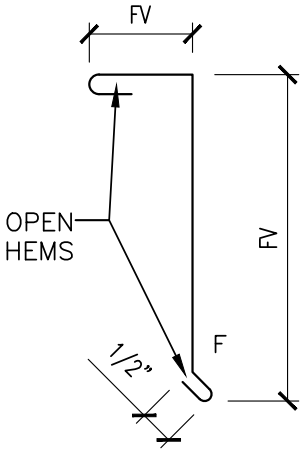
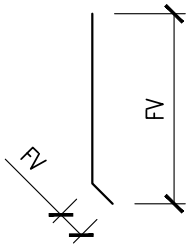


DRIP FLASHING



CONTINUOUS CLEAT

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

GABLE DETAIL CLOSURE FLASHING SOLID SUBSTRATE

ALUMINUM CEE-LOCK PANEL

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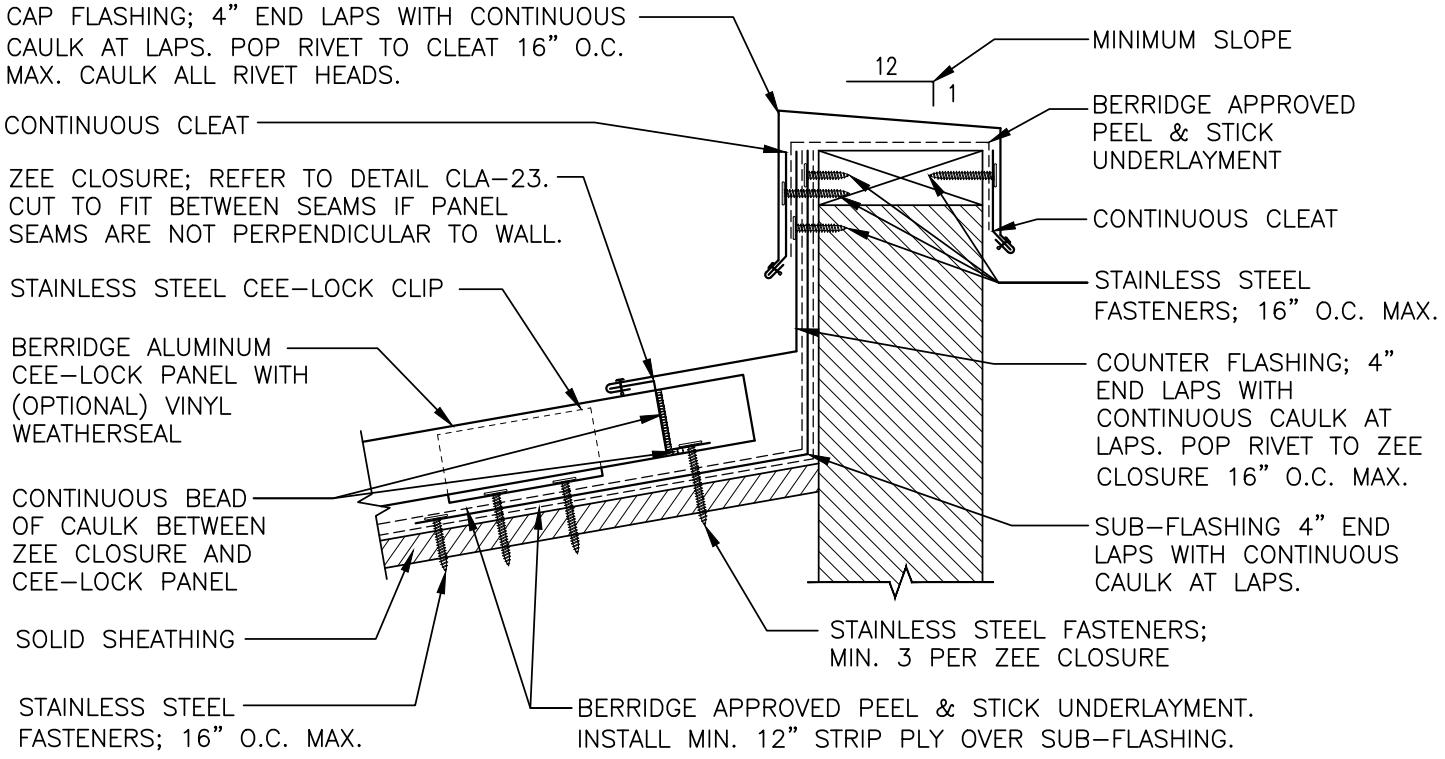

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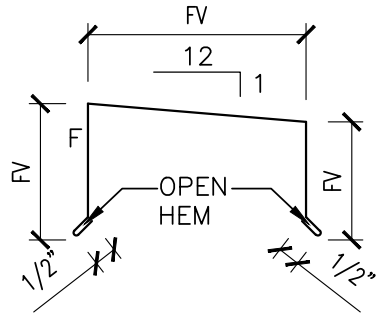
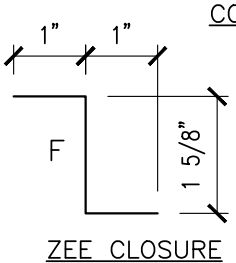
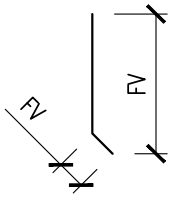


CAP FLASHING



ZEE CLOSURE



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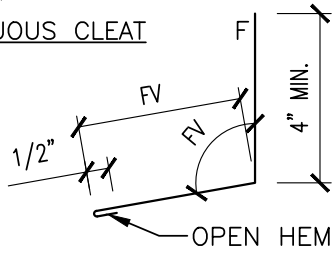
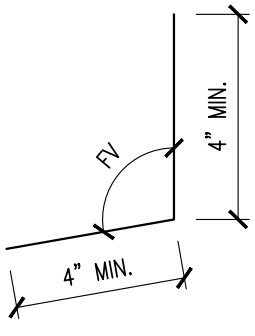


COUNTER FLASHING



SUB-FLASHING

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

PARAPET DETAIL HEAD WALL SOLID SUBSTRATE

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ALUMINUM CEE-LOCK PANEL

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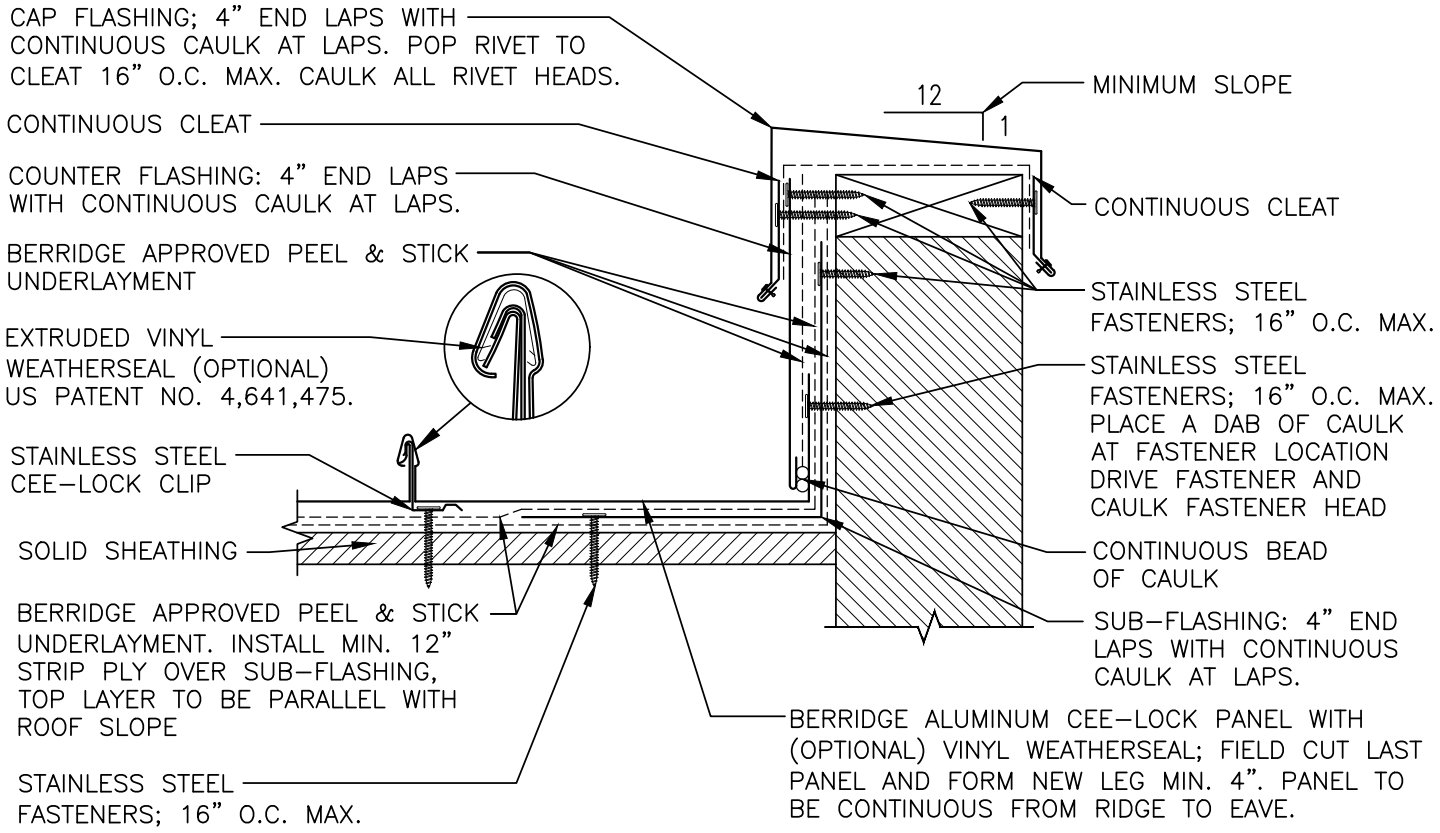

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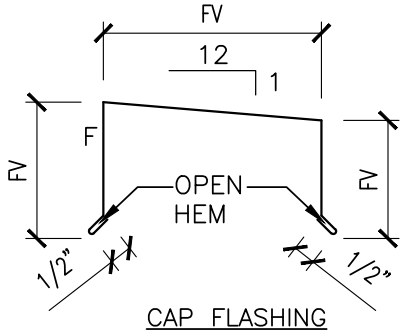
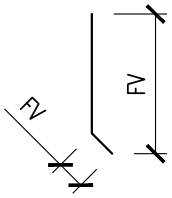
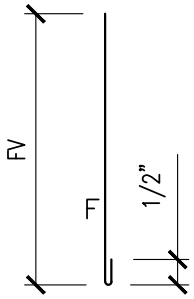


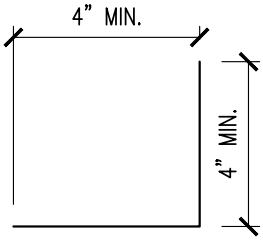
CAP FLASHING



CONTINUOUS CLEAT



COUNTER FLASHING



SUB-FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

PARAPET DETAIL RAKE WALL SOLID SUBSTRATE

DATE: 1/21

ALUMINUM CEE-LOCK PANEL

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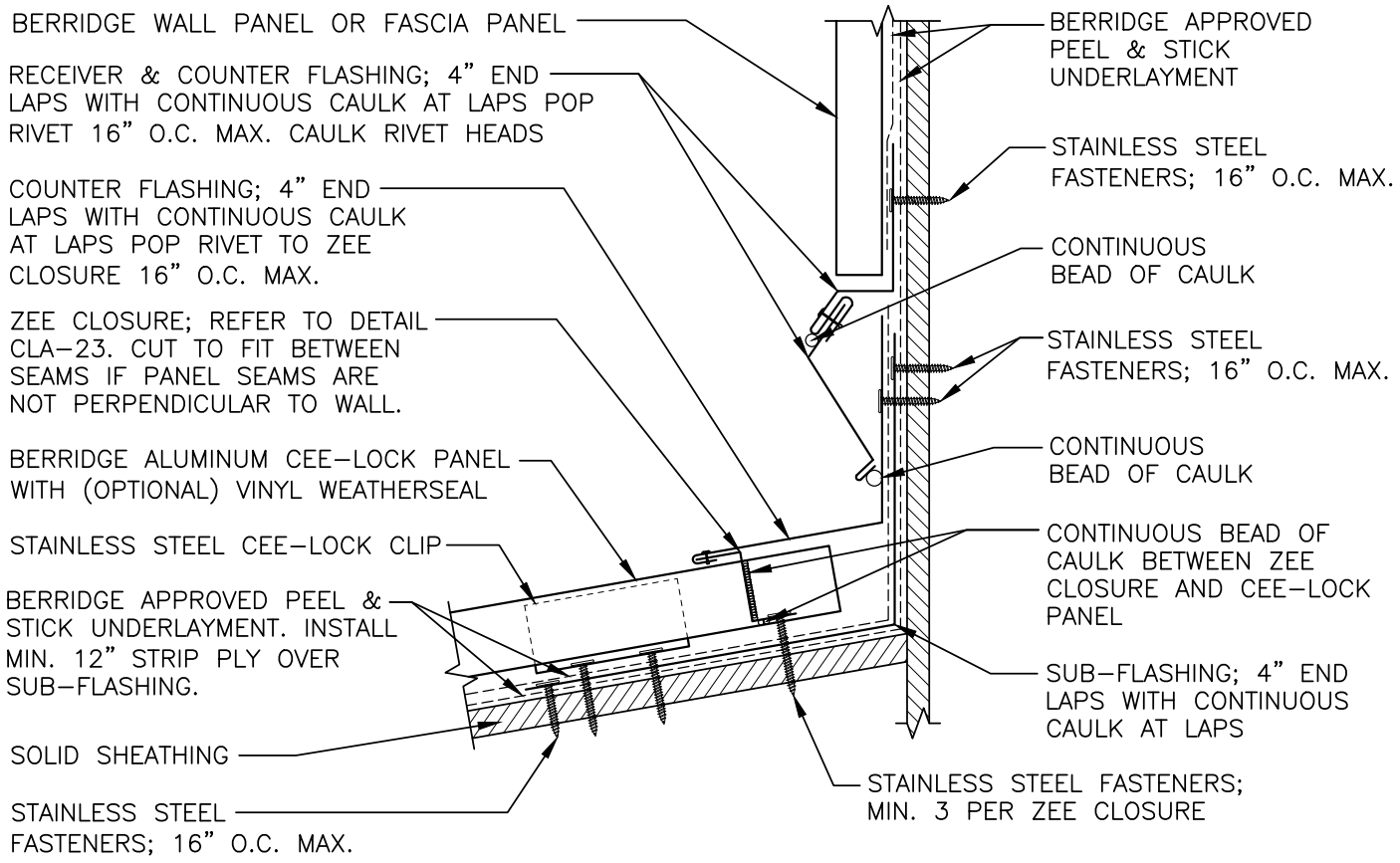

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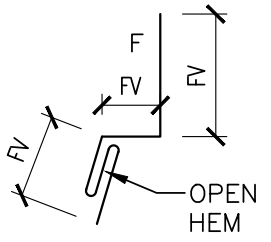

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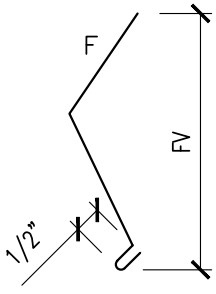
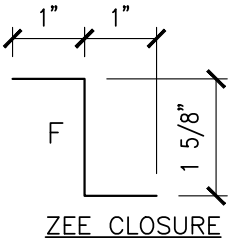
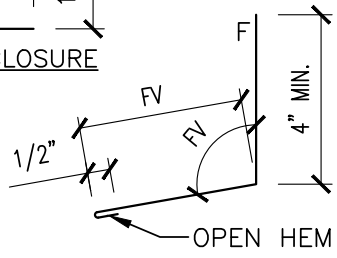


COUNTER FLASHING



ZEE CLOSURE



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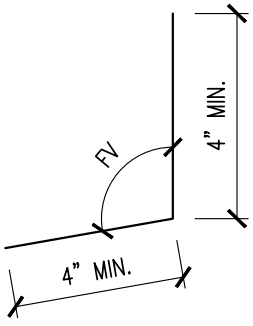

SUB-FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

HEAD WALL DETAIL RECIEVER FLASHING SOLID SUBSTRATE

DATE: 1/21

ALUMINUM CEE-LOCK PANEL

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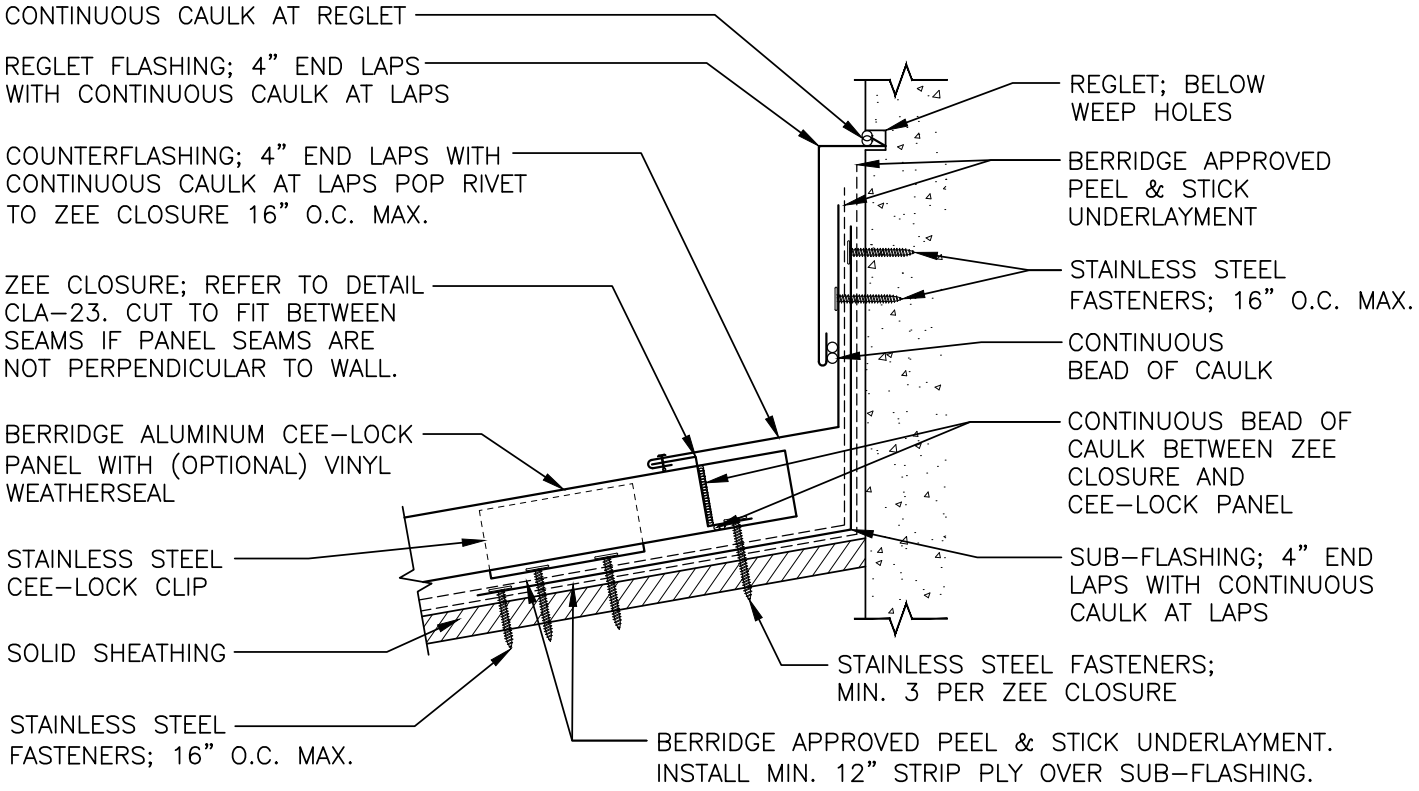

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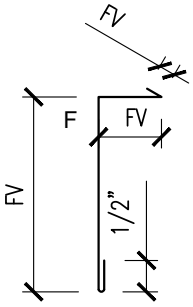
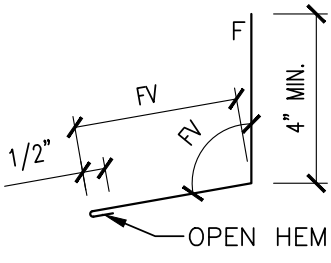
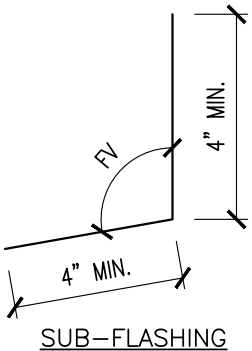


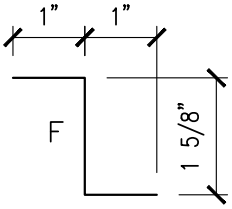
REGLET FLASHING



COUNTER FLASHING



SUB-FLASHING



ZEE CLOSURE

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

HEAD WALL DETAIL REGLET SOLID SUBSTRATE

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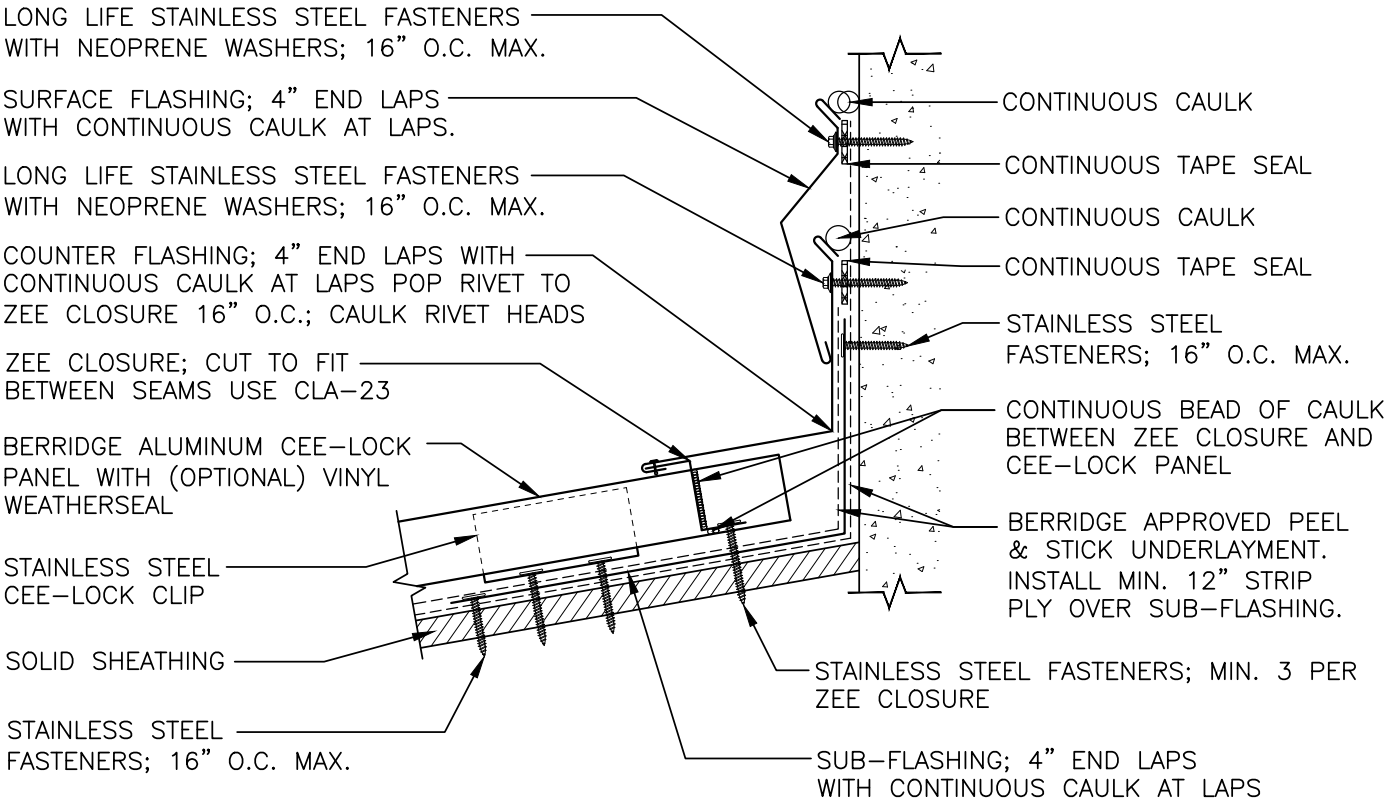
CLA-51R

ALUMINUM CEE-LOCK PANEL



NOTE: WHEN USING POP RIVETS ON FLASHING, STAINLESS STEEL RIVETS ARE REQUIRED WITH ALUMINUM PANELS. FLASHINGS MUST NOT BE FASTENED AT LAPS.

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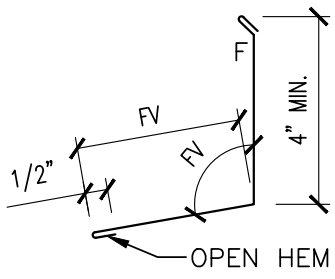
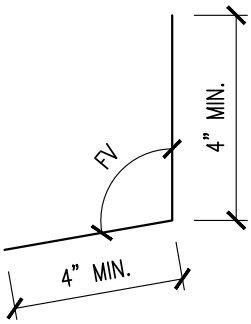
NOTE: ALL FLASHING GAUGES TO BE EQUAL TO THE ASSOCIATED PANEL GAUGE UNLESS NOTED OTHERWISE

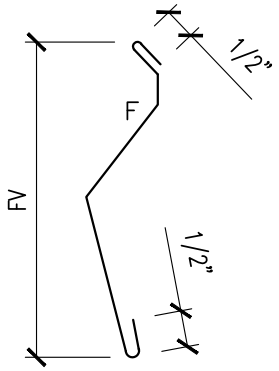
F = FINISH SIDE
FV = FIELD VERIFY



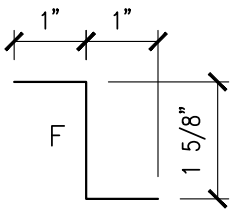
COUNTER FLASHING



SUB-FLASHING



SURFACE FLASHING



ZEE CLOSURE

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

HEAD WALL DETAIL SURFACE MOUNT SOLID SUBSTRATE

ALUMINUM CEE-LOCK PANEL

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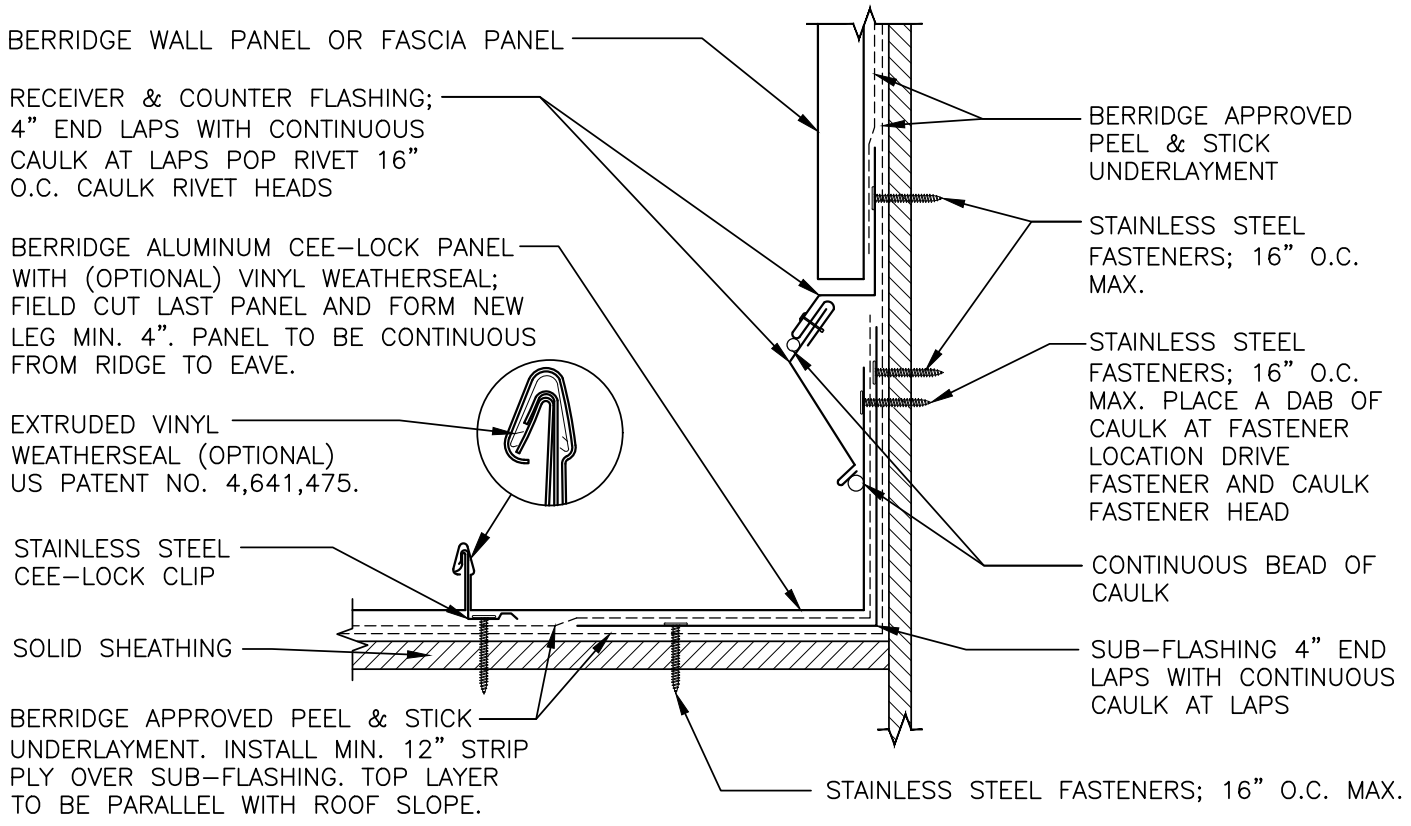

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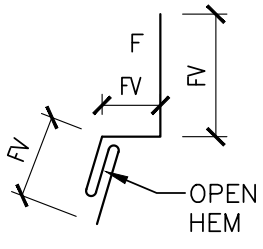
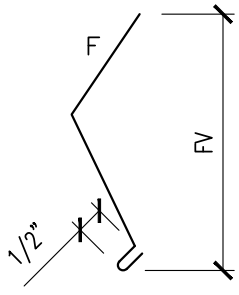
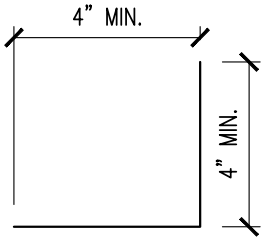


RECIEVER FLASHING



COUNTER FLASHING



SUB–FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

HEAD WALL DETAIL RECIEVER FLASHING SOLID SUBSTRATE

ALUMINUM CEE–LOCK PANEL

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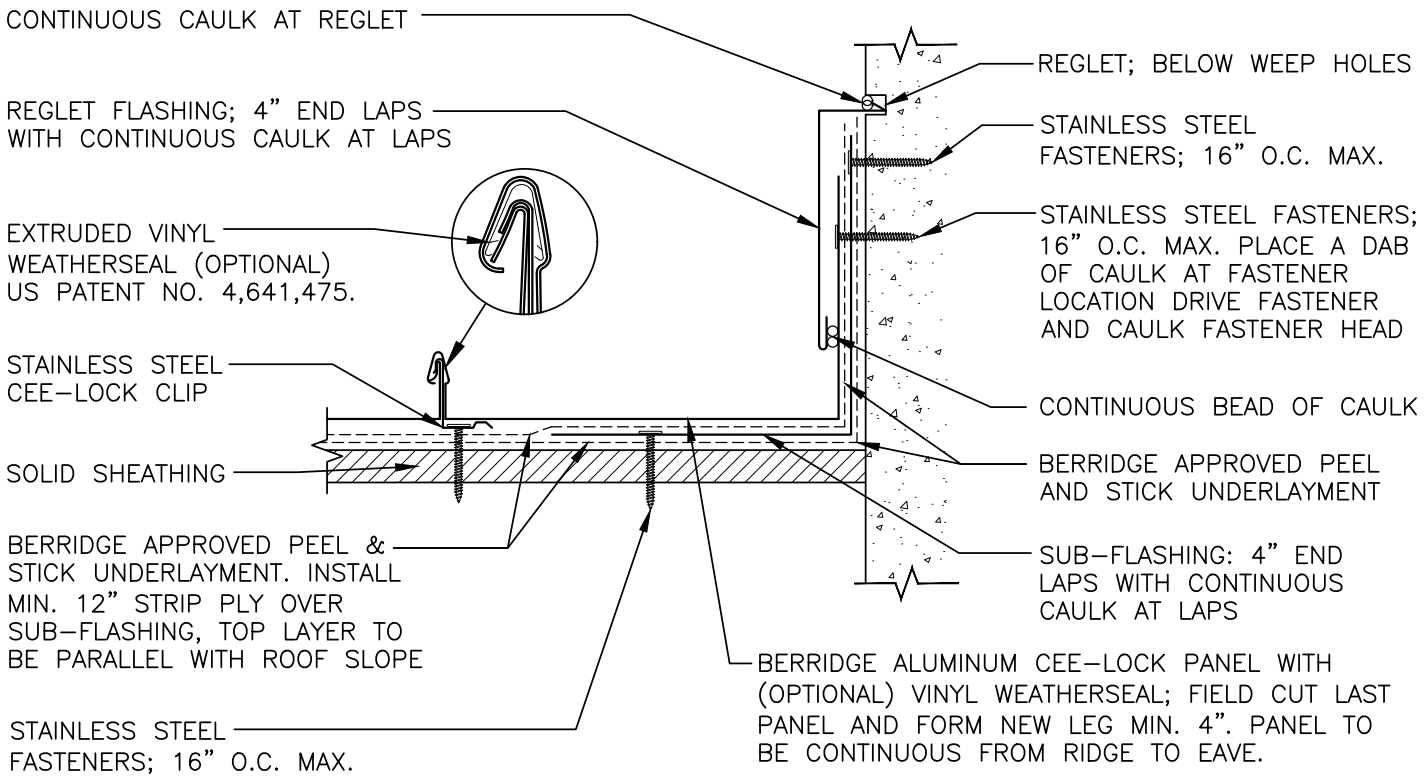

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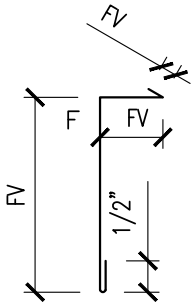
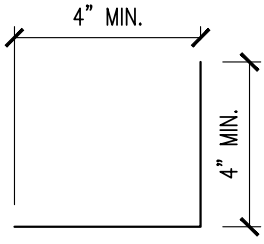


REGLET FLASHING



SUB–FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

HEAD WALL DETAIL REGLET SOLID SUBSTRATE

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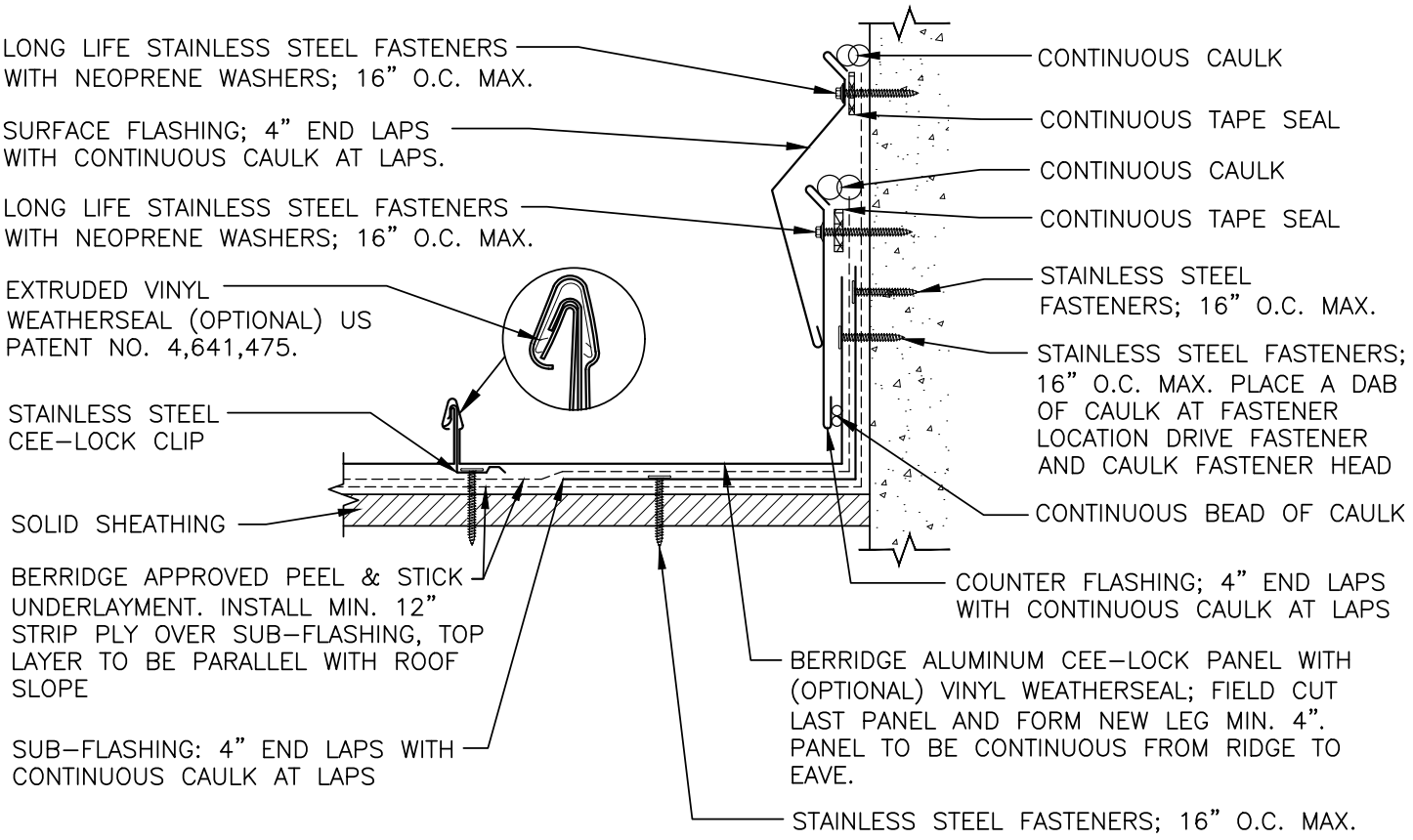
ALUMINUM CEE–LOCK PANEL



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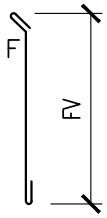
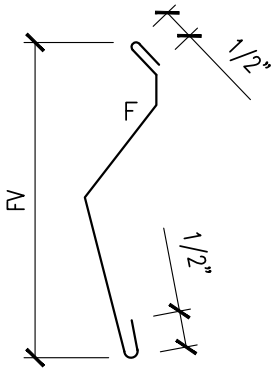
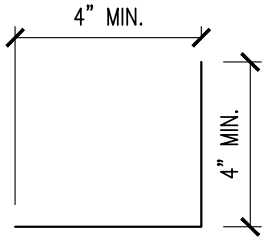


COUNTER FLASHING



SURFACE FLASHING



SUB-FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

HEAD WALL DETAIL SURFACE MOUNT SOLID SUBSTRATE

ALUMINUM CEE-LOCK PANEL

DATE: 1/21

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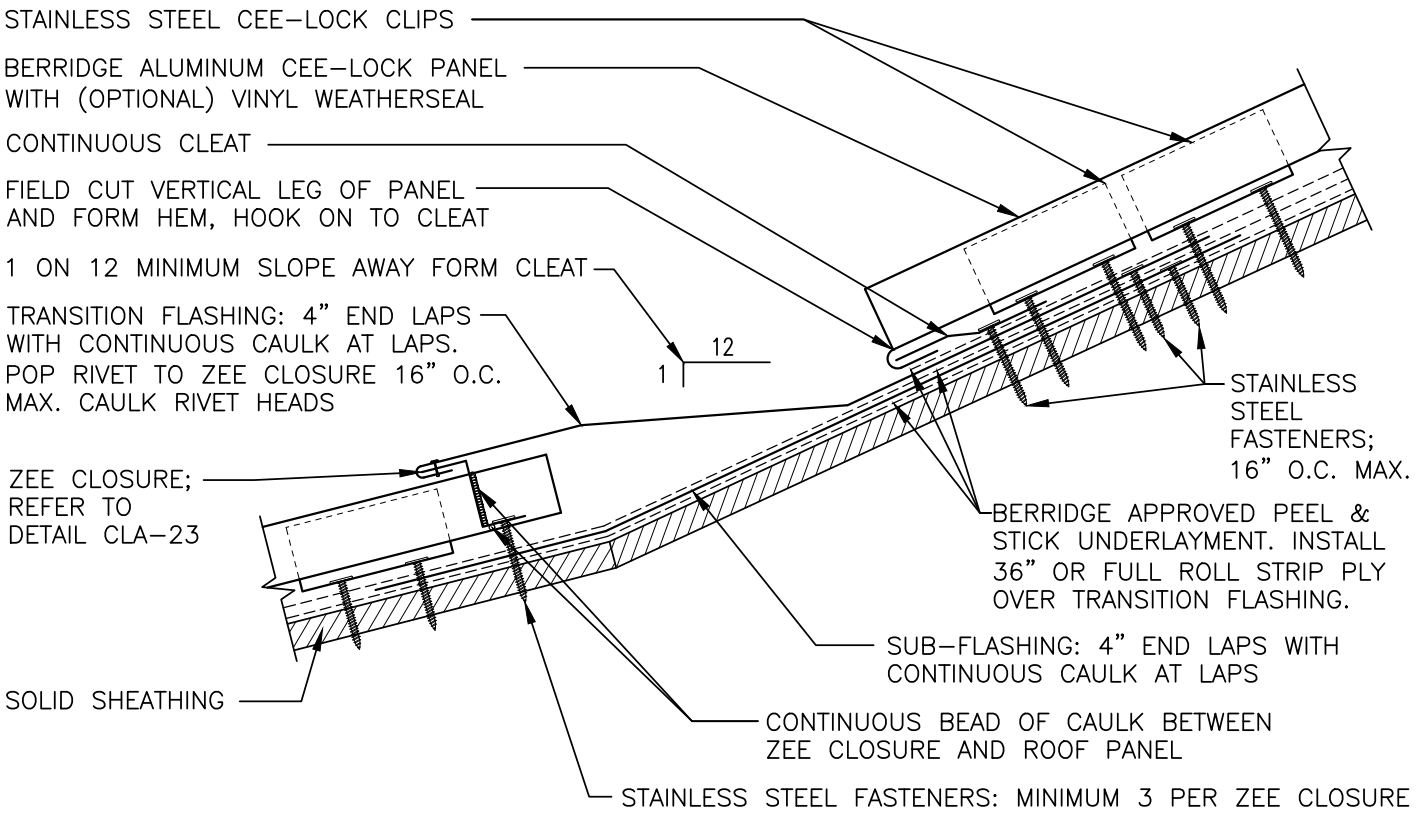

NOTE: PLACE A DAB OF CAULK AT CLEAT FASTENER LOCATION, DRIVE FASTENER THROUGH CAULK, AND CAULK FASTENER HEADS.

DO NOT: RUN A CONTINUOUS BEAD OF CAULK ON CLEAT OR UNDER CLEAT

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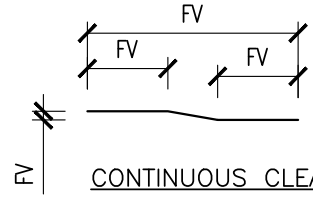
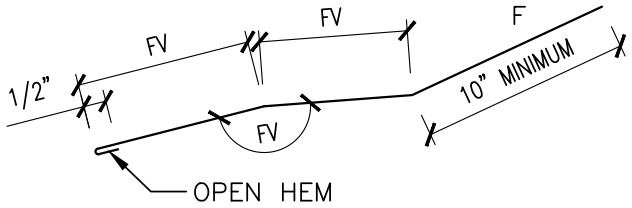
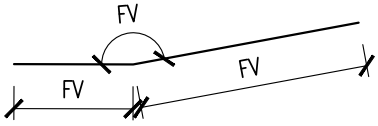


CONTINUOUS CLEAT



TRANSITION FLASHING



SUB–FLASHING

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

SLOPE TRANSITION DETAIL SOLID SUBSTRATE

DATE: 1/21

ALUMINUM CEE–LOCK PANEL

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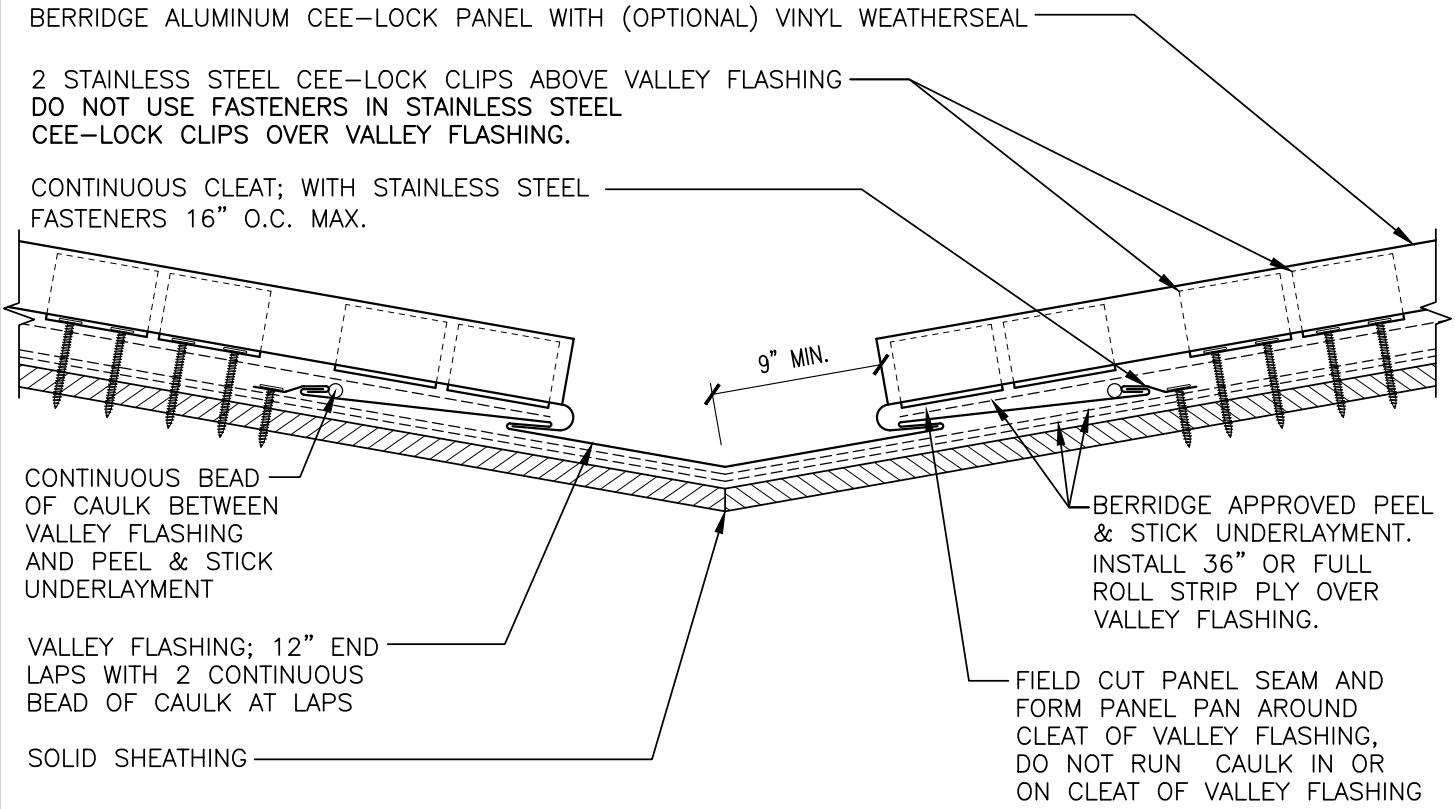

SEE DETAIL CLA–71 FOR VALLEY FLASHING LAPPING

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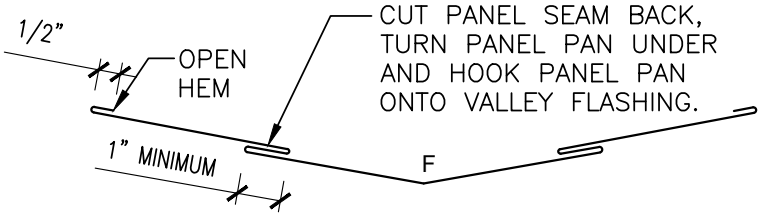
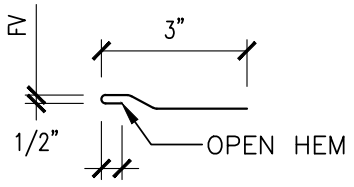


VALLEY FLASHING

FORM VALLEY FLASHING FROM A FULL 42" OR 48" WIDE FLAT SHEET. SEE TAPERED VALLEY DETAIL CLA–73A



CONTINUOUS CLEAT

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

VALLEY DETAIL SOLID SUBSTRATE

ALUMINUM CEE–LOCK PANEL

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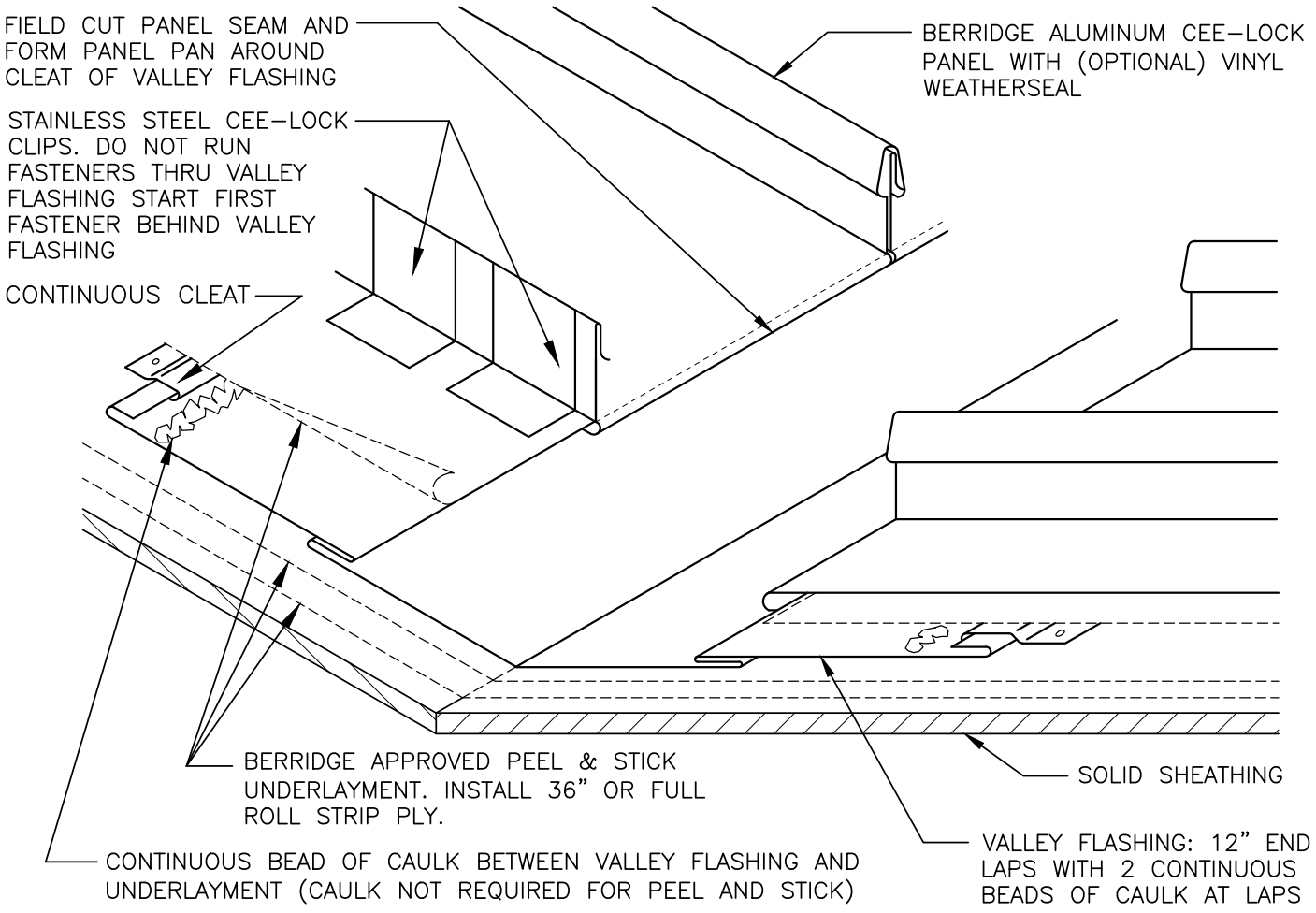

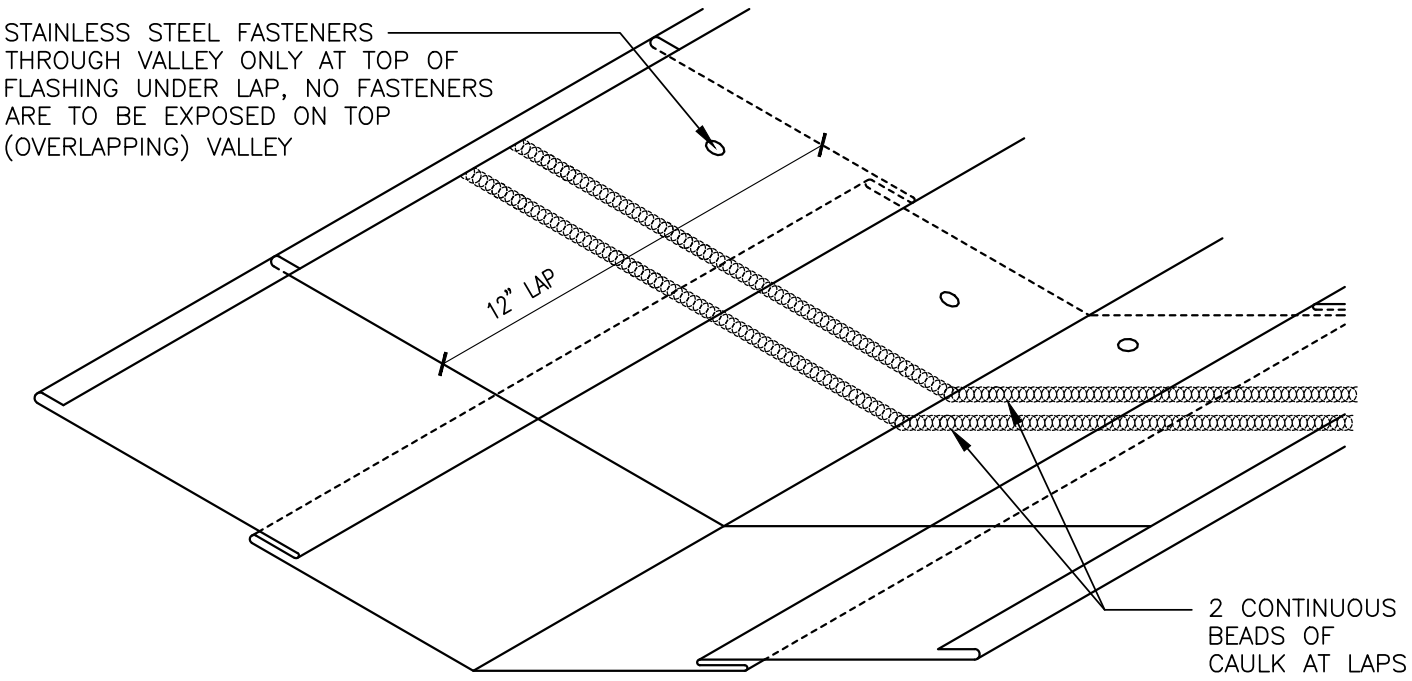

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

VALLEY DETAIL ISOMETRIC SOLID SUBSTRATE

DATE: 1/21

ALUMINUM CEE–LOCK PANEL

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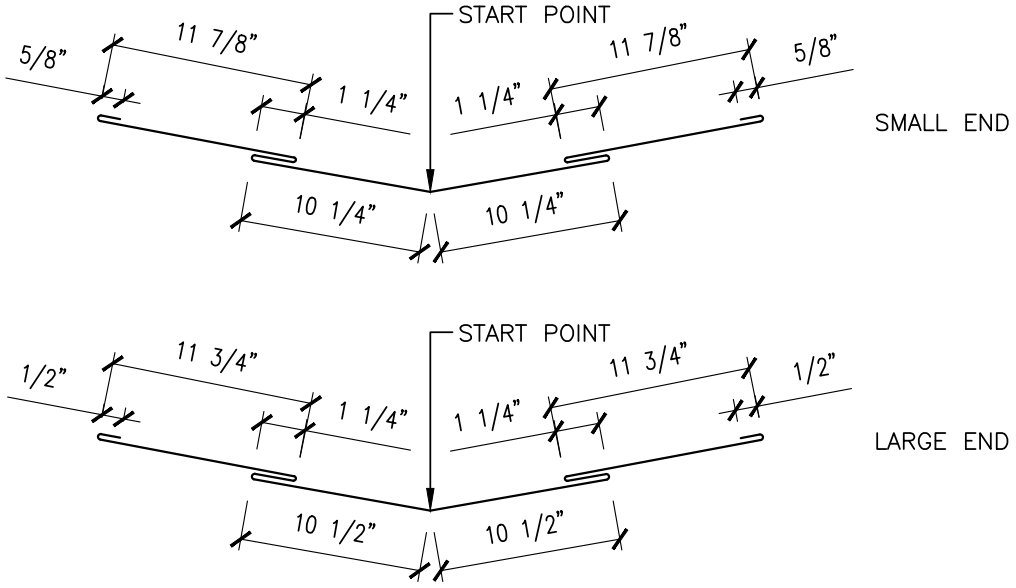
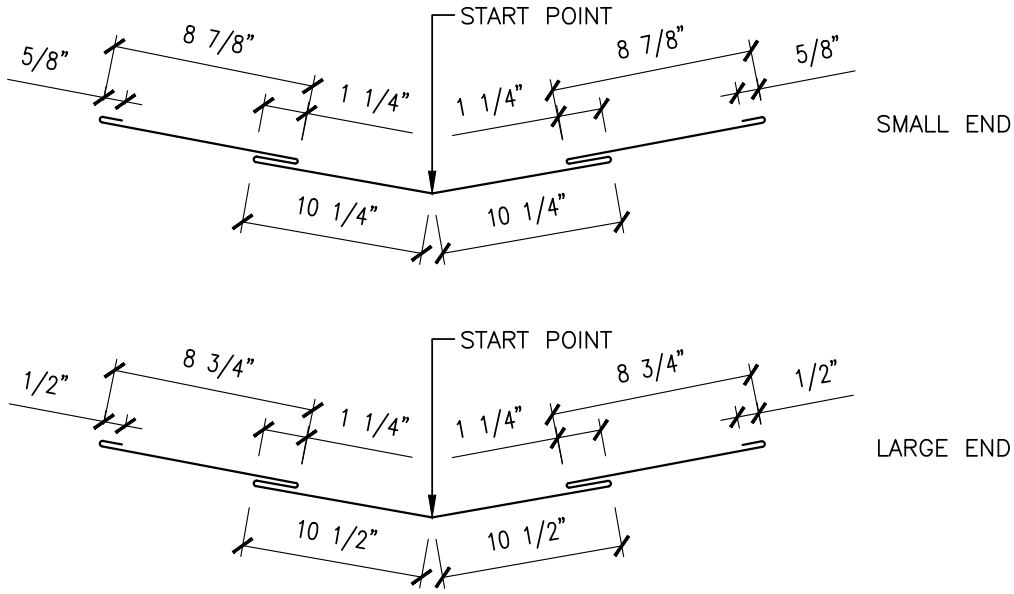
CLA–71

FOR USE WITH 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

FOR USE WITH 42" FLAT SHEET



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BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

TAPERED VALLEY DETAIL WITHOUT DIVERTER

DATE: 1/21

ALUMINUM CEE–LOCK PANEL

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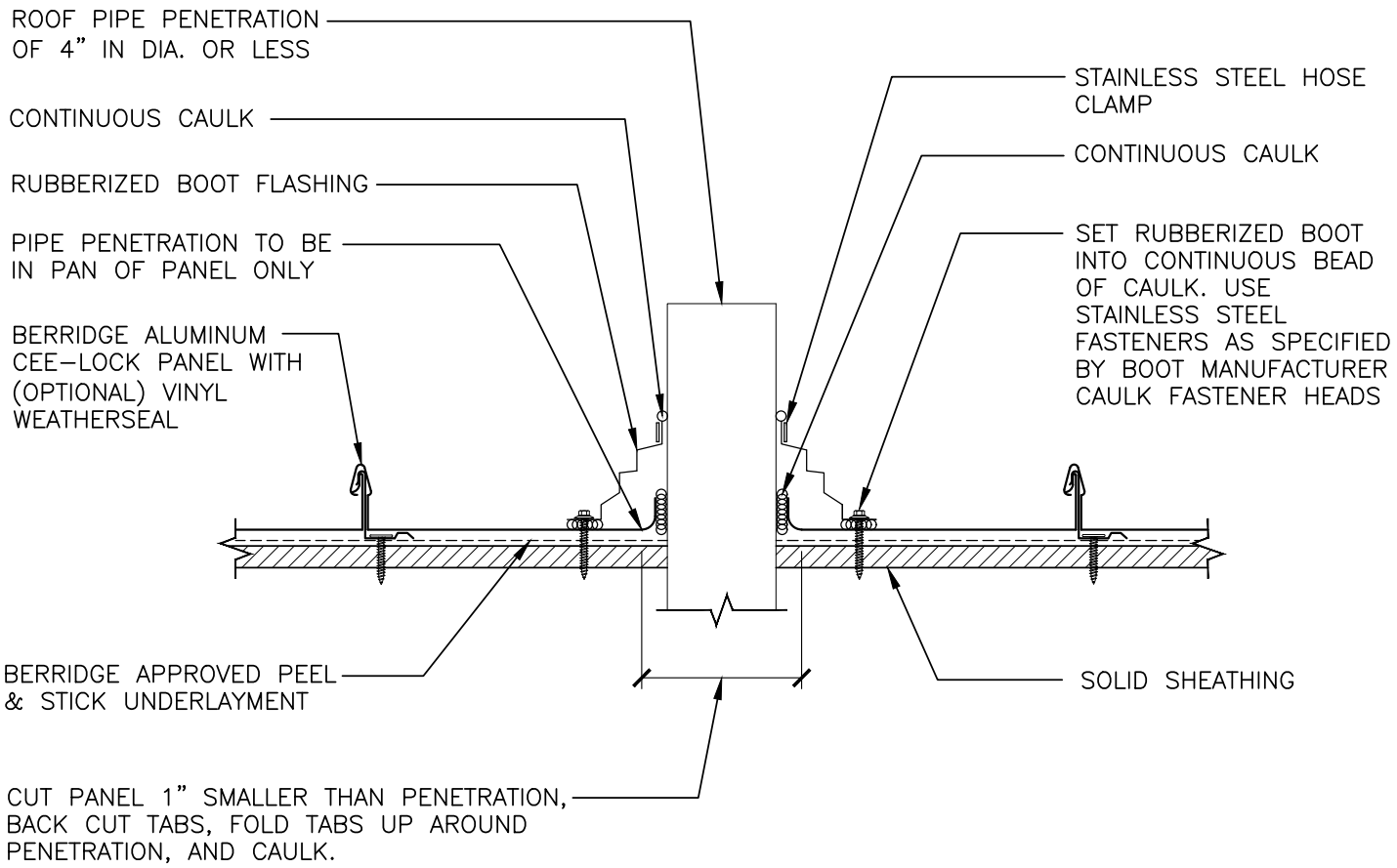
CLA–73A



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.

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

PIPE PENETRATION
(PREFERRED METHOD)
IN PAN OF PANEL ONLY
SOLID SUBSTRATE

DATE: 1/21

ALUMINUM CEE–LOCK PANEL

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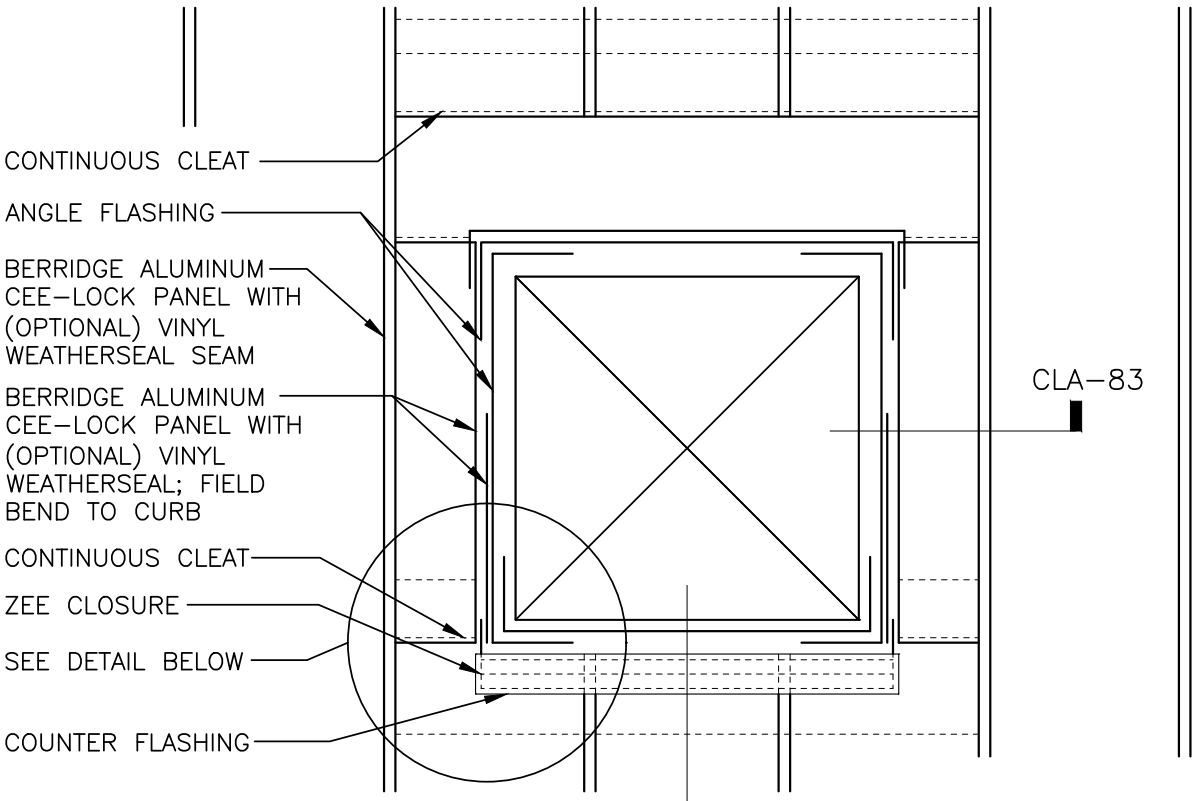
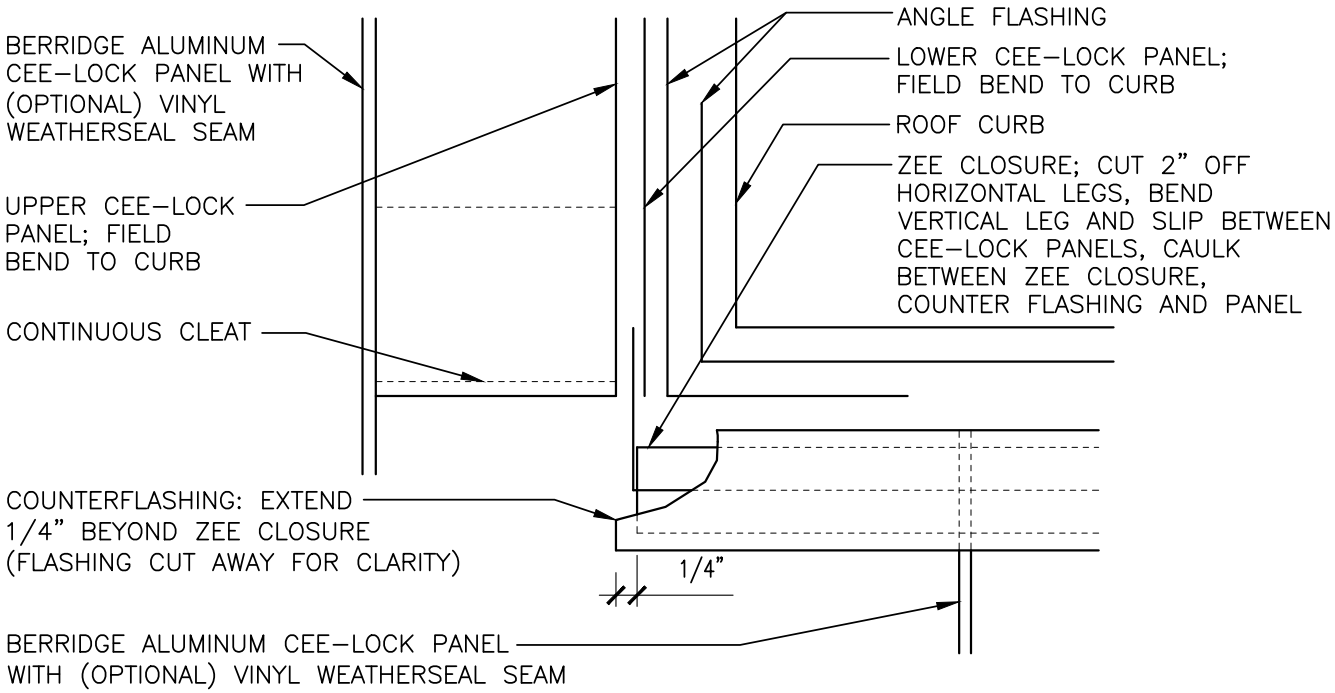


DO NOT: RUN CAULK ON OR UNDER CONTINUOUS CLEAT



BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

SQUARE PENETRATION PLAN VIEW
SOLID SUBSTRATE

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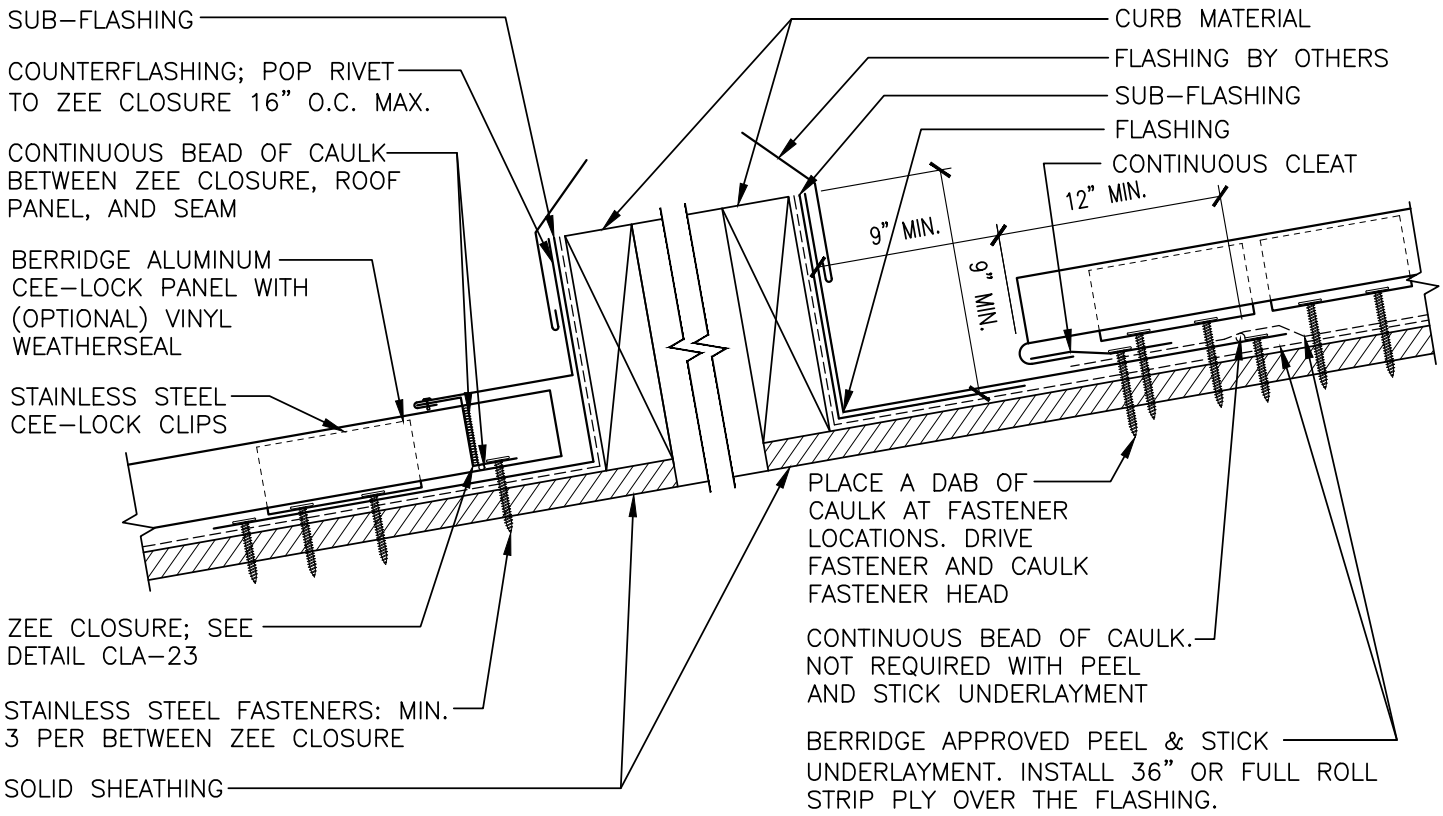
ALUMINUM CEE–LOCK PANEL



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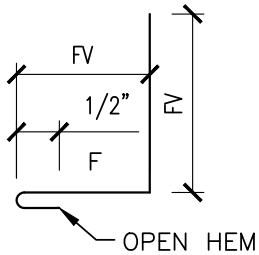
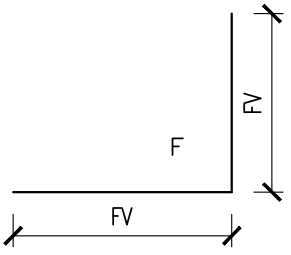
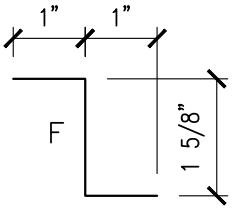


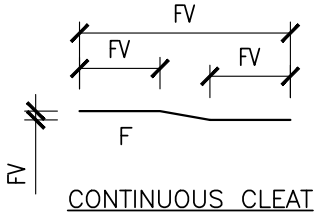
COUNTER FLASHING



SUB–FLASHING



ZEE CLOSURE



CONTINUOUS CLEAT

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

SQUARE PENETRATION SECTION A
SOLID SUBSTRATE

ALUMINUM CEE–LOCK PANEL

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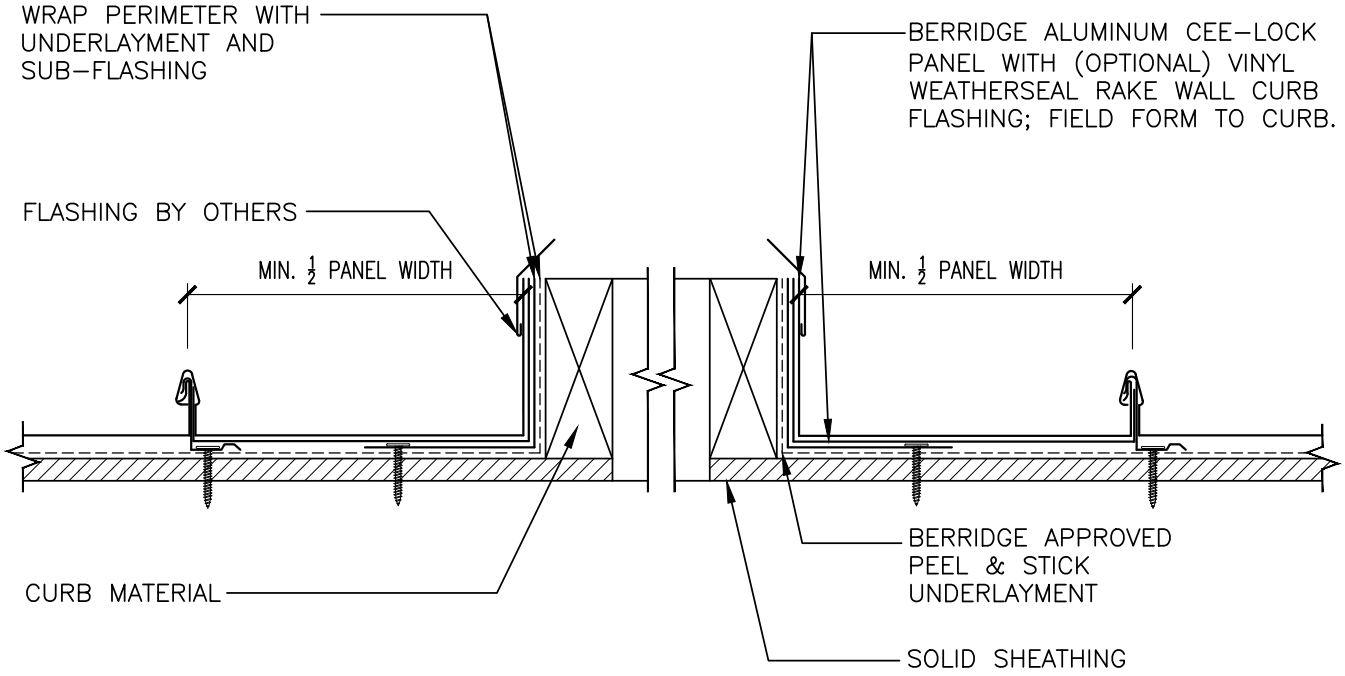


NOTE: WHEN USING POP RIVETS ON FLASHING, STAINLESS STEEL RIVETS ARE REQUIRED WITH ALUMINUM PANELS. FLASHINGS MUST NOT BE FASTENED AT LAPS.

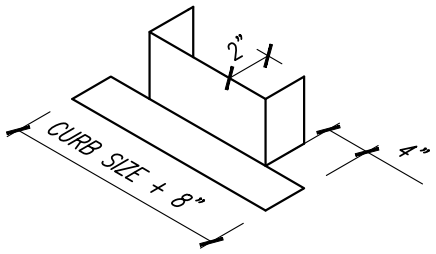
1. SOLID SHEATHING (NOT BY BERRIDGE) TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.

2. INSTALL ALUMINUM FLASHINGS WITH A 1/4" GAP BETWEEN NOTCH AND OVERLAP IN THE LAPS FOR THERMAL MOVEMENT. ALL ALUMINUM FLASHINGS MUST BE FASTENED 5" AWAY FROM THE 4" OVERLAP.

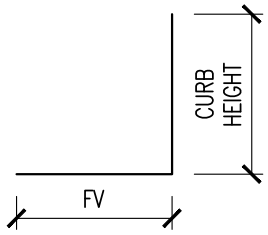
3. REFERENCE BERRIDGE'S WEB SITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE & SPACING. (REFERENCE INSTALLATION INSTRUCTIONS & LOAD CHARTS FOR MIN. FASTENER REQUIREMENTS)

NOTE: ALL FLASHING GAUGES TO BE EQUAL TO THE ASSOCIATED PANEL GAUGE UNLESS NOTED OTHERWISE

F = FINISH SIDE
FV = FIELD VERIFY



WRAP FLASHING



SUB–FLASHING

BERRIDGE MANUFACTURING COMPANY
Roofs of Distinction

SQUARE PENETRATION SECTION B
SOLID SUBSTRATE

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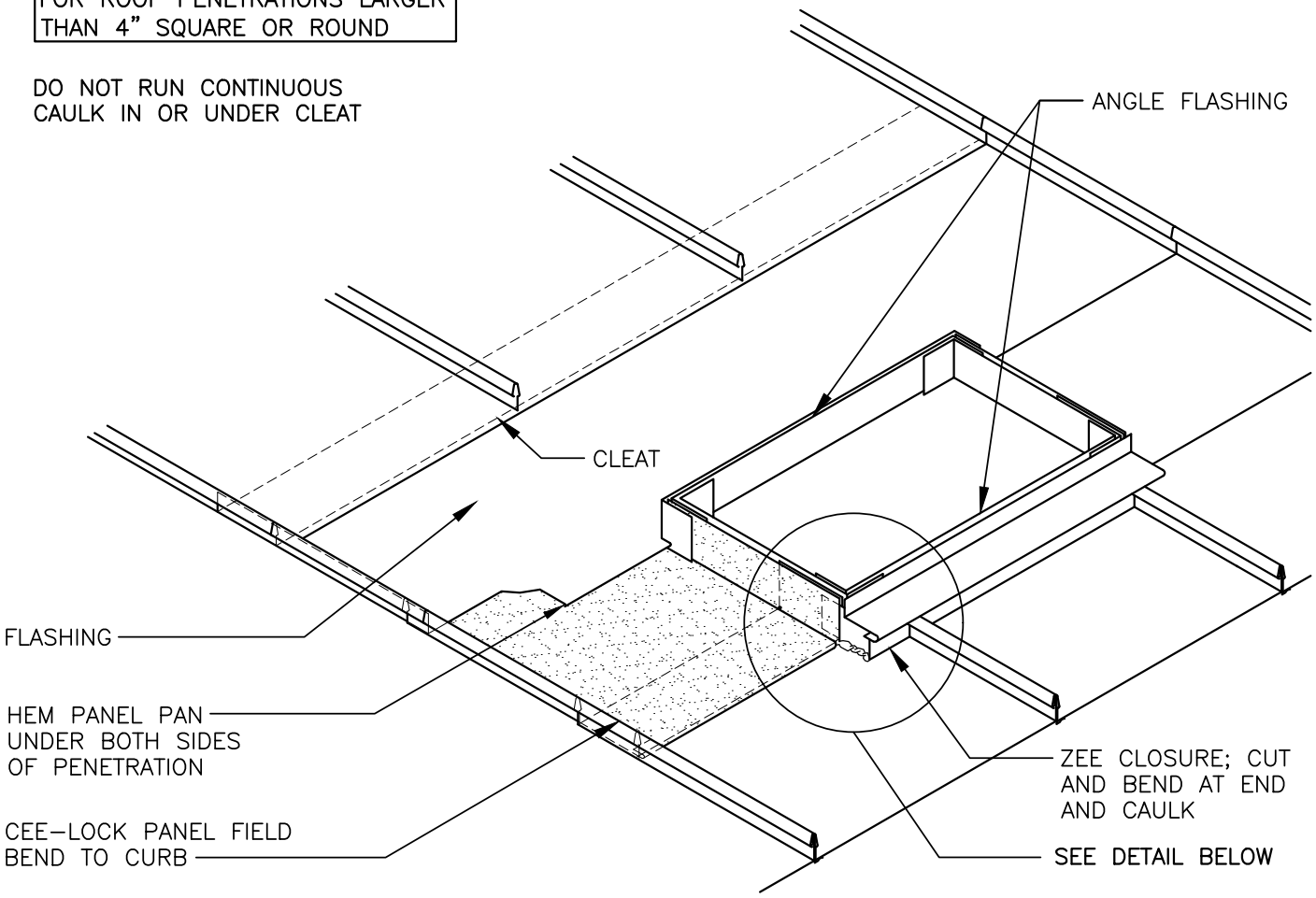
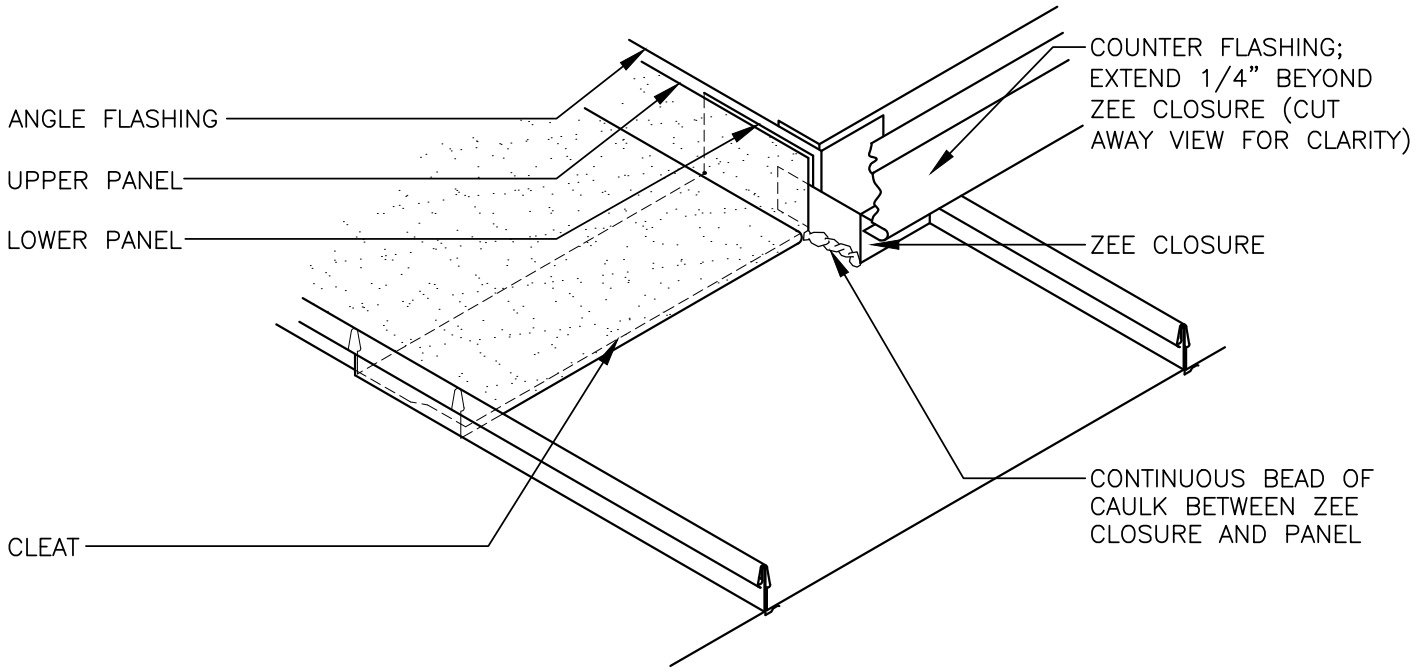
ALUMINUM CEE–LOCK PANEL

FOR ROOF PENETRATIONS LARGER THAN 4" SQUARE OR ROUND

DO NOT RUN CONTINUOUS CAULK IN OR UNDER CLEAT





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SQUARE PENETRATION ISOMETRIC
SOLID SUBSTRATE

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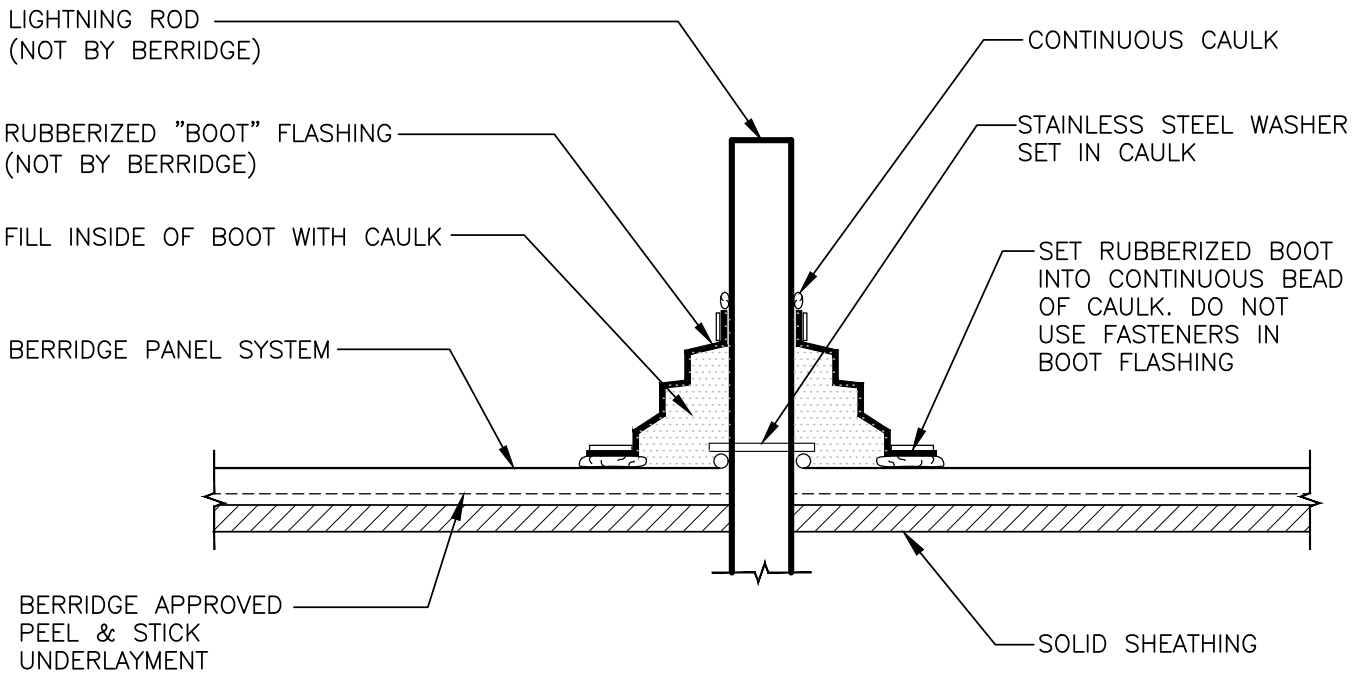
ALUMINUM CEE–LOCK PANEL

USE ONLY STAINLESS STEEL OR ALUMINUM LIGHTNING RODS



LIGHTNING CONTROL SYSTEMS ON A PROJECT ARE TO THE DISCRETION OF THE ARCHITECT OR PROJECT DESIGNER. BERRIDGE MANUFACTURING CO. MAKES NO RECOMMENDATIONS AS TO WHEN TO USE A LIGHTNING CONTROL SYSTEM.

IF A LIGHTNING CONTROL SYSTEM IS SPECIFIED, ALL COMPONENTS OF THE SYSTEM SHOULD BE OF MATERIAL COMPATIBLE WITH THE BERRIDGE ROOFING SYSTEM; ALUMINUM AND/OR STAINLESS STEEL ARE TWO METALS THAT WORK WELL. WHEN AN INCOMPATIBLE MATERIAL SUCH AS COPPER IS USED ELECTROLYTIC CORROSION OCCURS DUE TO DISSIMILAR METALS CONTACTING IN THE PRESENCE OF AN ELECTROLYTE, SUCH AS WATER. THE DISSIMILAR METALS SET UP A GALVANIC ACTION THAT RESULT IN THE DETERIORATION OF ONE OF THEM. BERRIDGE MANUFACTURING CO. WILL NOT BE HELD LIABLE FOR ANY CLAIMS DUE TO FAILURES CAUSED BY DISSIMILAR METALS.

LIGHTNING CONTROL SYSTEMS NORMALLY REQUIRE ANCHORAGE FOR THE AIR TERMINALS AND THE CABLE BASES. IF ANCHORAGE TO BERRIDGE MATERIAL IS MADE WITH AN ADHESIVE, COMPATIBILITY TO KYNAR/HYLAR PAINT SHOULD BE INVESTIGATED. IF CUTTING HOLES IN THE BERRIDGE ROOFING SYSTEM IS REQUIRED FOR ANCHORAGE, RUBBERIZED BOOTS (REFER TO THE LIGHTNING CONTROL MANUFACTURER FOR SUITABLE BOOTS) SHOULD BE USED AND SEALED TO THE BERRIDGE ROOF SYSTEM WITH TREMCO SPECTREM ONE CAULKING. IT IS POSSIBLE THAT CABLES MAY VIBRATE IN WIND AND CAUSE DAMAGE TO THE METAL AND PAINT FINISH, THEREFORE CABLES SHOULD NOT BE ALLOWED TO LAY ON TOP OF THE ROOFING PANELS OR FLASHING.

BERRIDGE MANUFACTURING WILL NOT BE RESPONSIBLE FOR WATERTIGHTNESS OF THE LIGHTNING CONTROL SYSTEM AND SHOULD BE COVERED BY THE LIGHTNING CONTROL SYSTEM INSTALLER OR MANUFACTURER.

LIGHTNING CONTROL SYSTEMS ARE TO BE DESIGNED BY AND INSTALLED BY QUALIFIED PROFESSIONALS. BERRIDGE MANUFACTURING CO. SHALL HAVE NO LIABILITY TO THE RECOMMENDATIONS OUTLINED IN THIS LETTER.

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

LIGHTNING ROD (IF APPLICABLE)

ALUMINUM CEE–LOCK PANEL

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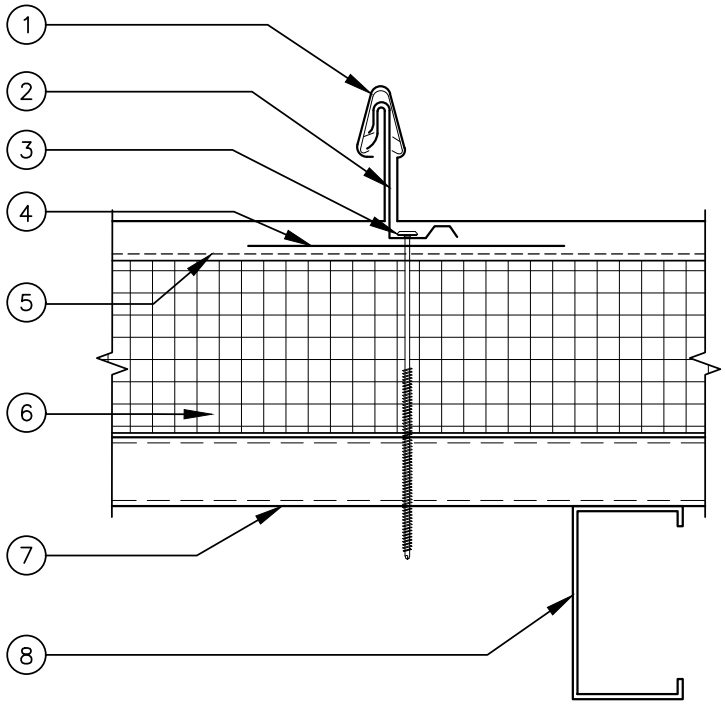

1. BERRIDGE ALUMINUM CEE–LOCK PANEL WITH (OPTIONAL) VINYL WEATHERSEAL * – 0.032" COATED ALUMINUM, 16½" WIDE, 1½" HIGH PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT ENDLAPS.

   BERRIDGE MANUFACTURING CO. – "CEE–LOCK PANEL"

2. BERRIDGE ALUMINUM CEE–LOCK CLIP – ONE–PIECE 1½" HIGH ASSEMBLY FABRICATED FROM NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) STAINLESS STEEL. CEE–LOCK CLIP SPACED 20" ON CENTER AT PANEL SIDE JOINT.

3. FASTENERS (SCREWS) –
   A. FOR ATTACHING "CEE–LOCK CLIP" (ITEM 2) TO LINER (ITEM 6) USE #14–13 DP1 PANCAKE HEAD DECK FASTENER THROUGH RIGID BOARD AND CONNECTED TO METAL DECK AT 24" ON CENTER. FASTENER LENGTH TO BE ADJUSTED TO ACCOUNT FOR THICKNESS OF RIGID INSULATION AND LINER PANEL WITH ¾" MINIMUM PENETRATION INTO METAL DECK.
   B. FOR CONNECTION OF LINER (ITEM 6) TO PURLIN (ITEM 7) (NOT SHOWN) USE 1/4–14 X 1¼" HWH 36/7 FASTENER PATTERN (FASTENER EVERY LOW FLUTE OF DECK)

4. CLIP BEARING PLATE – 6" X 6" NO. 24 MSG COATED STEEL, USED WITH RIGID INSULATION ONLY.

5. BERRIDGE APPROVED PEEL & STICK OR #30 FELT UNDERLAYMENT.

6. INSULATION – MAXIMUM 6" 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 3/4". ENDLAPS TO OCCUR OVER PURLINS WITH PANELS OVERLAPPED MINIMUM 4".

8. PURLINS – NO. 12 MSG (MIN. YIELD STRENGTH 50,000 PSI) COATED STEEL. SPACING TO BE 5'–0" ON CENTER WHEN ITEM 6 IS CONNECTED TO ITEM 7

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

UL 90 APPROVED ASSEMBLY ALUMINUM CEE–LOCK PANEL WITH STAINLESS STEEL CLIPS THROUGH 6" RIGID INSULATION BOARD AND INTO 22 GA. STRUCTURAL METAL DECK
UL CONSTRUCTION NO. 689

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ALUMINUM CEE–LOCK PANEL

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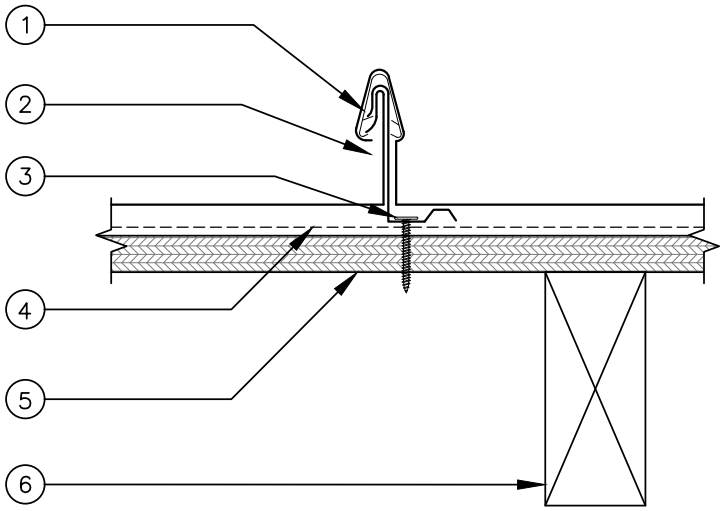

1. BERRIDGE ALUMINUM CEE–LOCK PANEL WITH (OPTIONAL) VINYL WEATHERSEAL * – 0.032" COATED ALUMINUM, 16$\frac{1}{2}$" WIDE, 1$\frac{1}{2}$" HIGH PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT ENDLAPS.

   BERRIDGE MANUFACTURING CO. – "CEE–LOCK PANEL"

2. BERRIDGE ALUMINUM CEE–LOCK CLIPS – ONE–PIECE 1$\frac{1}{2}$" HIGH, X 1$\frac{3}{16}$" WIDE X 3$\frac{1}{2}$" 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 ATTACHING "CEE–RIB" (ITEM 2) TO PLYWOOD (ITEM 5) USE #12–11 X 1" PANCAKE HEAD, STEEL SCREWS. TWO FASTENERS PER CEE–LOCK CLIP.
   B. FOR CONNECTING PLYWOOD (ITEM 5) TO PURLIN (ITEM 6) (NOT SHOWN) USE 2$\frac{1}{2}$" LONG 8D HOT GALVANIZED RING SHANK PATIO/DECK NAILS SPACED 6" MAXIMUM AT PLYWOOD TO JOIST CONNECTION AND PLYWOOD ENDS.

4. BERRIDGE APPROVED PEEL & STICK OR #30 FELT UNDERLAYMENT.

5. SUBSTRUCTURE (PLYWOOD) – NOMINAL $\frac{15}{32}$" THICK, 4–PLY B–C GROUP 1 EXTERIOR PLYWOOD.

6. JOISTS – NOMINAL 2 X 10 WOOD MEMBERS SPACED 2'–0" ON CENTER MAXIMUM.

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction

UL 90 APPROVED ASSEMBLY ALUMINUM
CEE–LOCK PANEL WITH STAINLESS STEEL
CEE–LOCK CLIPS OVER $\frac{15}{32}$" PLYWOOD SHEATHING
UL CONSTRUCTION NO. 690

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ALUMINUM CEE–LOCK PANEL

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