

1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE ZEE-LOCK PANEL IN ORDER TO MAKE A POSITIVE ATTACHMENT, MUST BE ATTACHED TO THE STEEL DECK. (IF THE INSULATION SYSTEM HAS NO NAILABLE SURFACE).
2. THIS ASSEMBLY QUALIFIES FOR THE FOLLOWING UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NO. P701, P711, AND P803, USING SPRAYED ON FIBER IN LIEU OF CEMENTIOUS MIXTURE.
3. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.

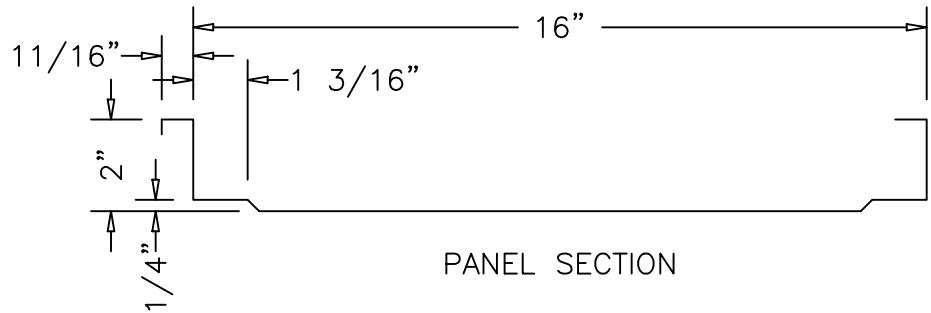
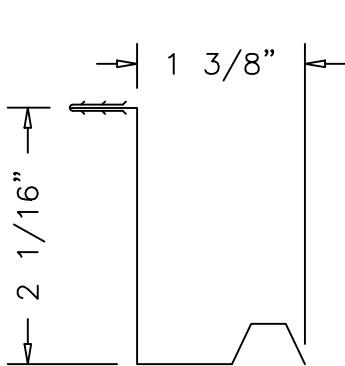
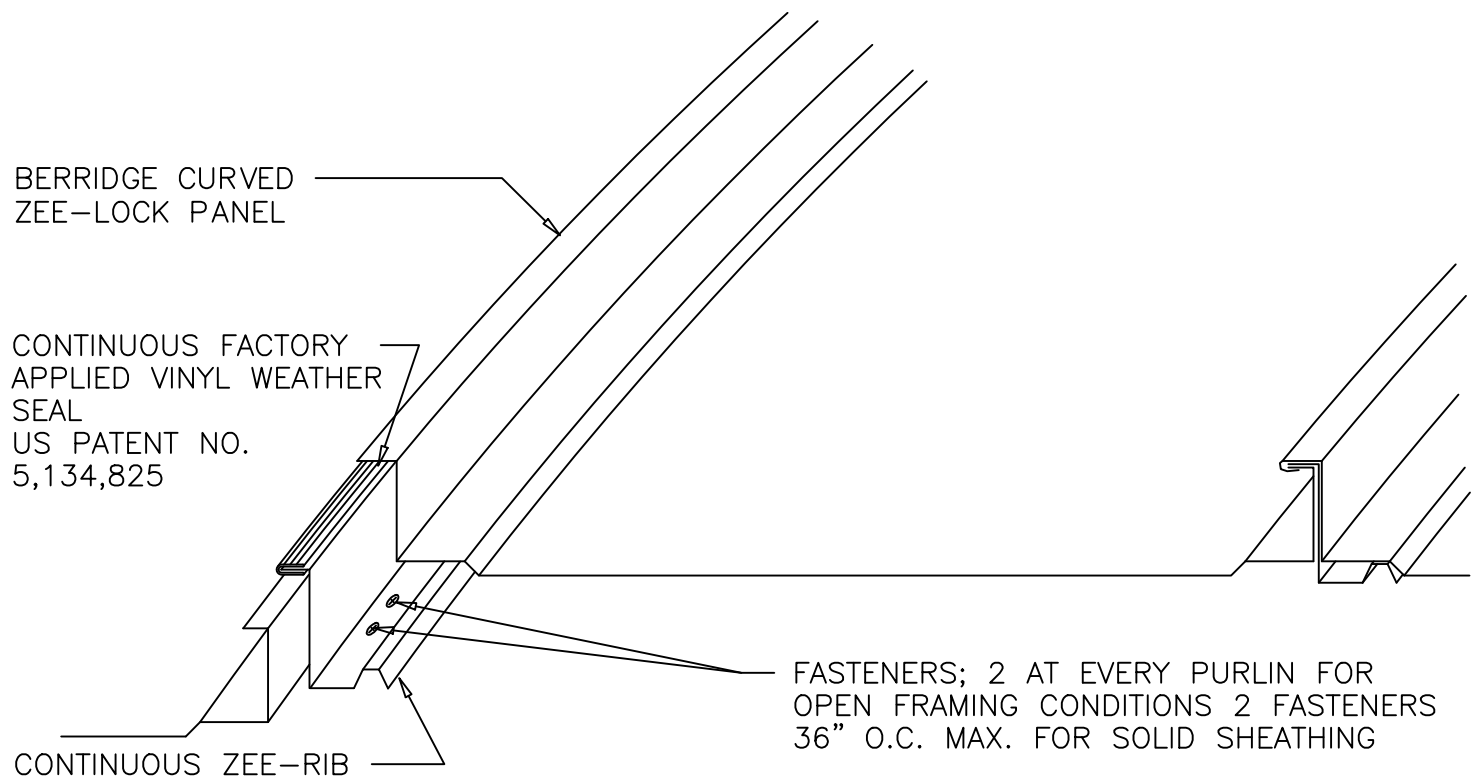
UL 90 FIRE RESISTANCE
ROOF ASSEMBLY
OPEN WEB STEEL JOIST WITH
CEMENTIOUS THERMAL BARRIER

DATE: 2/19/03

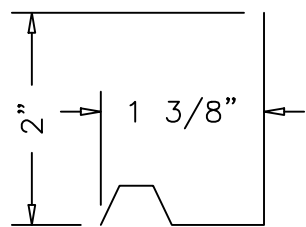
PAGE\FILE

CURVED ZEE-LOCK PANEL

CZ-102



CONTINUOUS ZEE-RIB
WITH FACTORY APPLIED
VINYL WEATHER SEAL



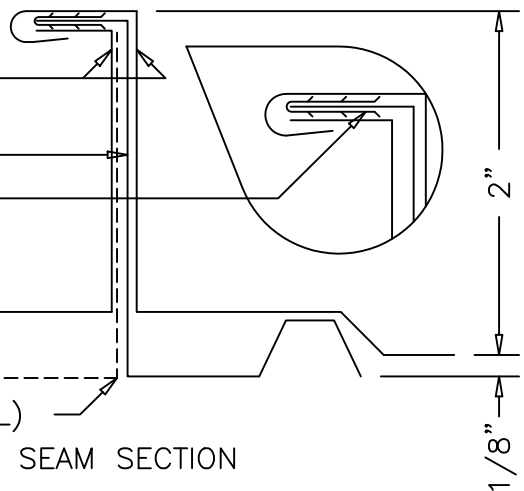
PANEL SUPPORT

BERRIDGE CURVED
ZEE-LOCK PANEL

CONTINUOUS ZEE-RIB

FACTORY APPLIED
EXTRUDED VINYL
WEATHERSEAL
US PATENT NO.
5,134,825

PANEL SUPPORT (OPTIONAL)



DATE: 2/19/03

PAGE\FILE

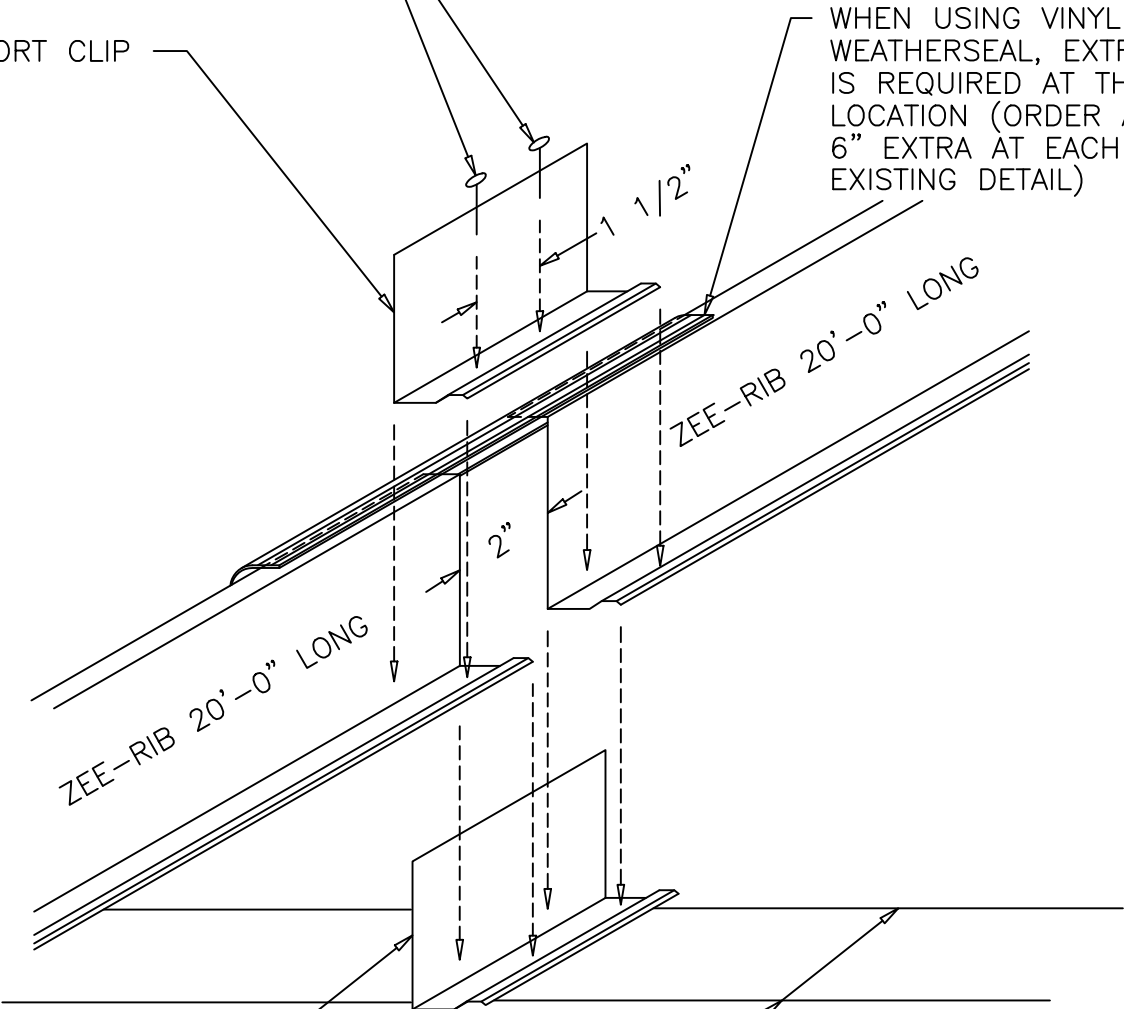
CZ-4

OVERVIEW
CONTINUOUS ZEE-RIB
WITH VINYL WEATHERSEAL
CURVED ZEE-LOCK PANEL

NO. 12 HEX HEAD FASTENERS
ATTACH THROUGH SUPPORT
CLIPS ONLY

TOP SUPPORT CLIP

WHEN USING VINYL
WEATHERSEAL, EXTRA VINYL
IS REQUIRED AT THIS
LOCATION (ORDER APPROX.
6" EXTRA AT EACH
EXISTING DETAIL)



BOTTOM SUPPORT CLIP

PURLIN OR HIGH RIBS OF METAL DECK
TOP OF SOLID SHEATHING OR
RIGID INSULATION

NOT TO SCALE

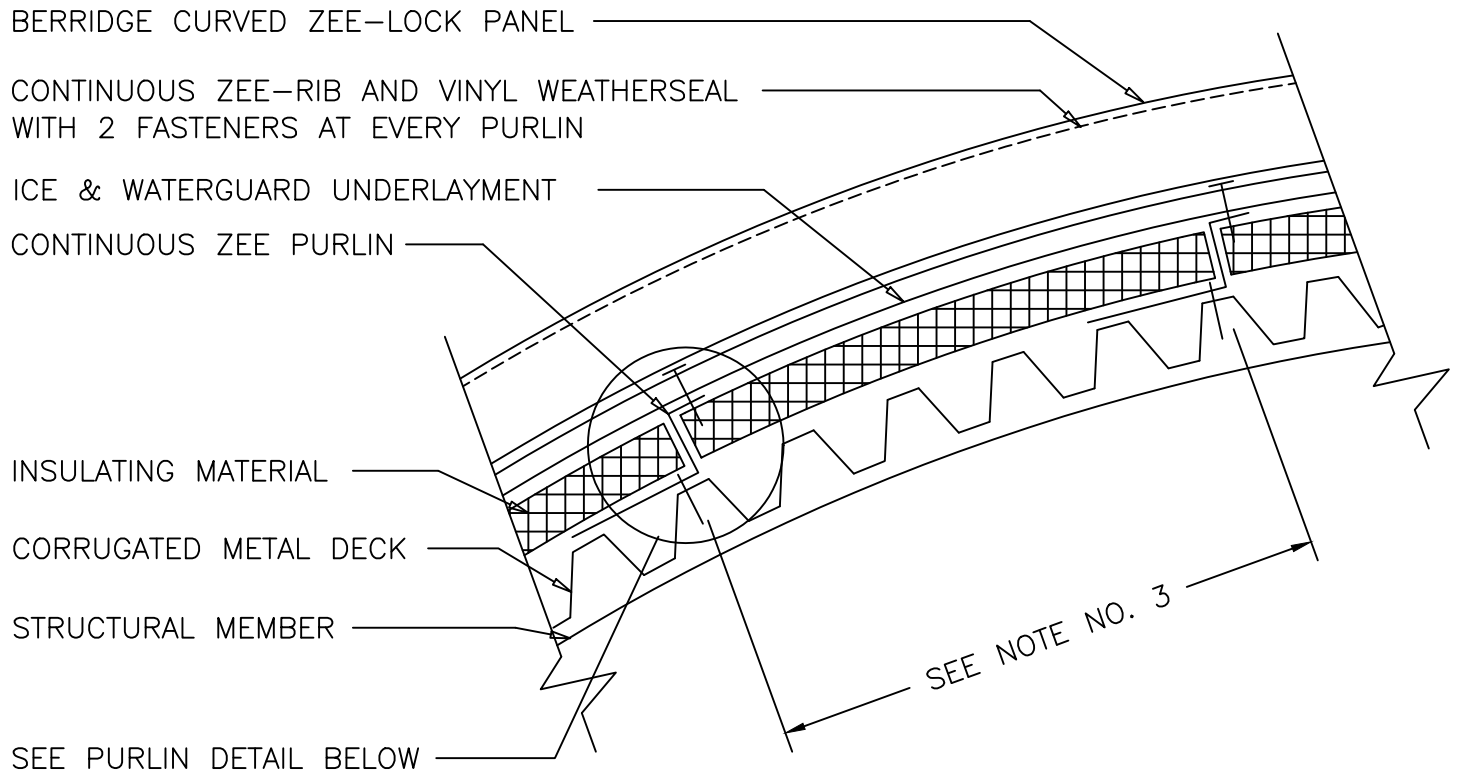
EXPANSION JOINT
DETAIL

CURVED ZEE-LOCK PANEL

DATE: 2/19/03

PAGE\FILE

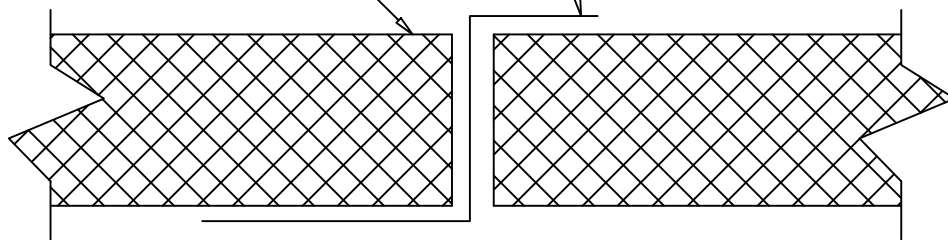
CZ-5



1. ALL UNDERLAYMENT, STRUCTURAL MEMBERS, CORRUGATED DECK, AND INSULATING MATERIAL, ARE ITEMS TO BE FURNISHED AND INSTALLED BY OTHERS AT THE DISCRETION OF THE ARCHITECT.
2. CONTINUOUS WOOD BLOCKING (BY OTHERS) MAY BE USED IN LIEU OF ZEE PURLINS. BLOCKING MUST BE SAME DEPTH AS INSULATION.
3. PURLIN GAUGE, SPACING, AND FASTENER TYPE WILL BE DEPENDENT ON GOVERNING CODE AND SPECIFICATION REQUIREMENTS.

ZEE PURLIN, DEPTH
DETERMINED BY INSULATION DEPTH AND LEGS
DETERMINED BY PITCH OF METAL DECK

BUTT INSULATION UP TO PURLIN

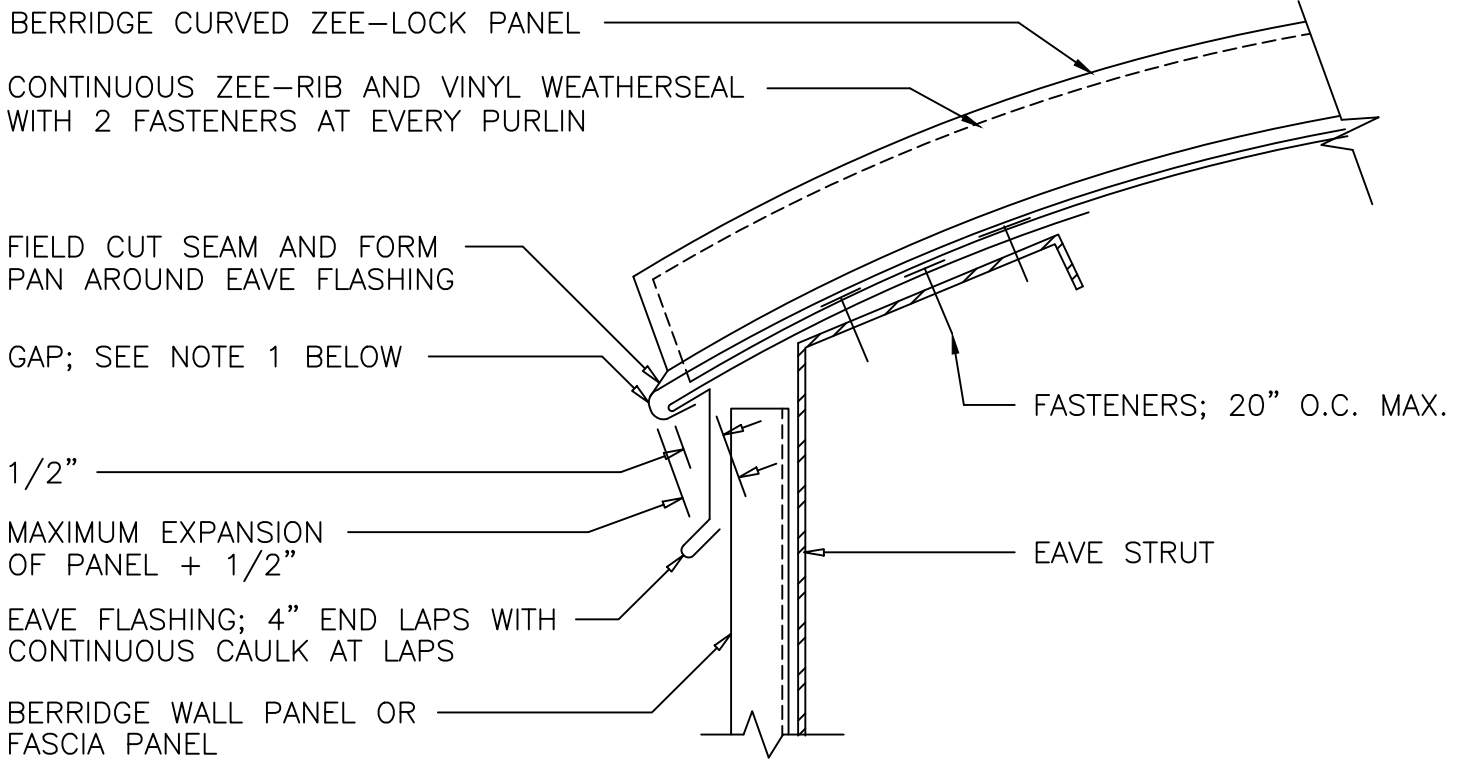


INSULATED DECK
DETAIL
CURVED ZEE-LOCK PANEL

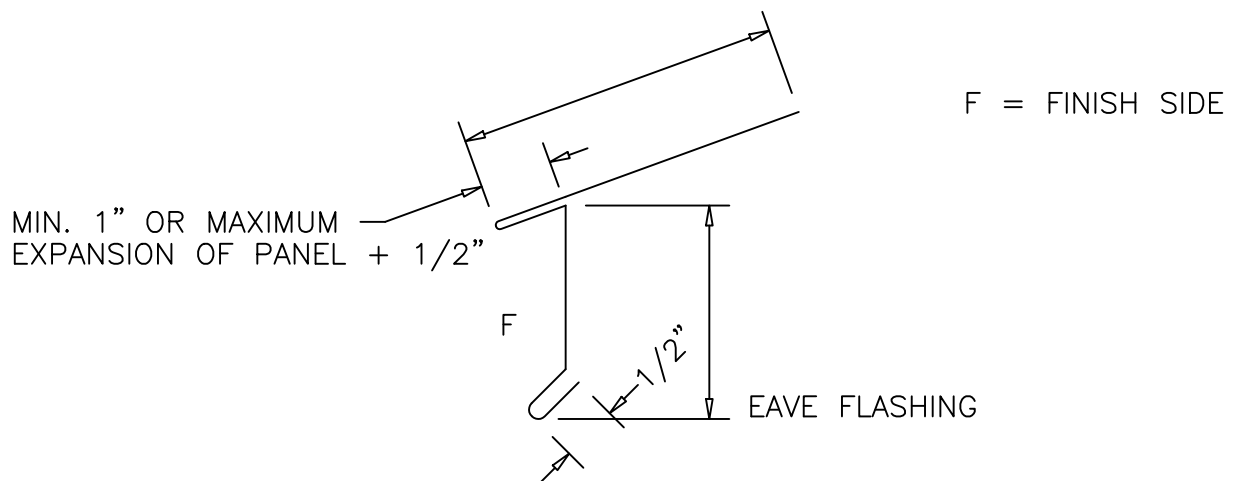
DATE: 2/19/03

PAGE\FILE

CZ-6



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 PANEL PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH REFER TO NOMINAL LINEAR EXPANSION CHART, PAGE CZI-8.
2. GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.
3. SEE ALSO EXPANSION JOINT DETAIL CZ-5.



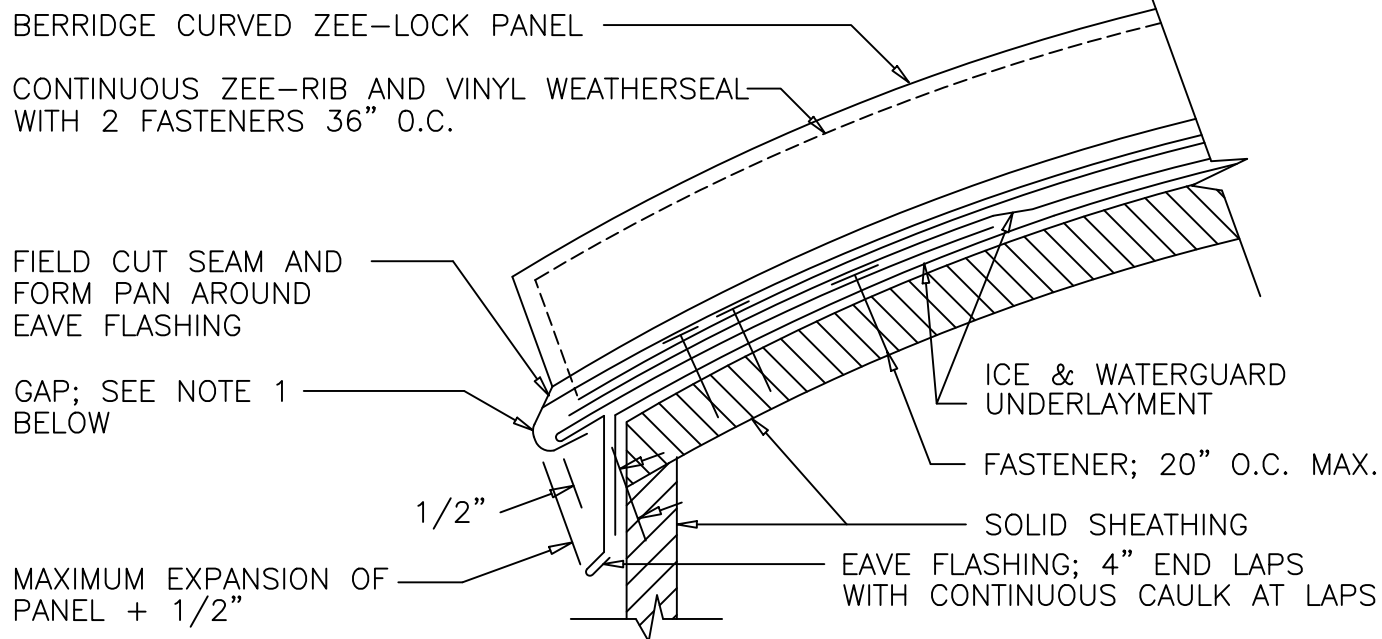
EAVE DETAIL
 PANEL TURNDOWN; OPEN FRAMING

DATE: 2/19/03

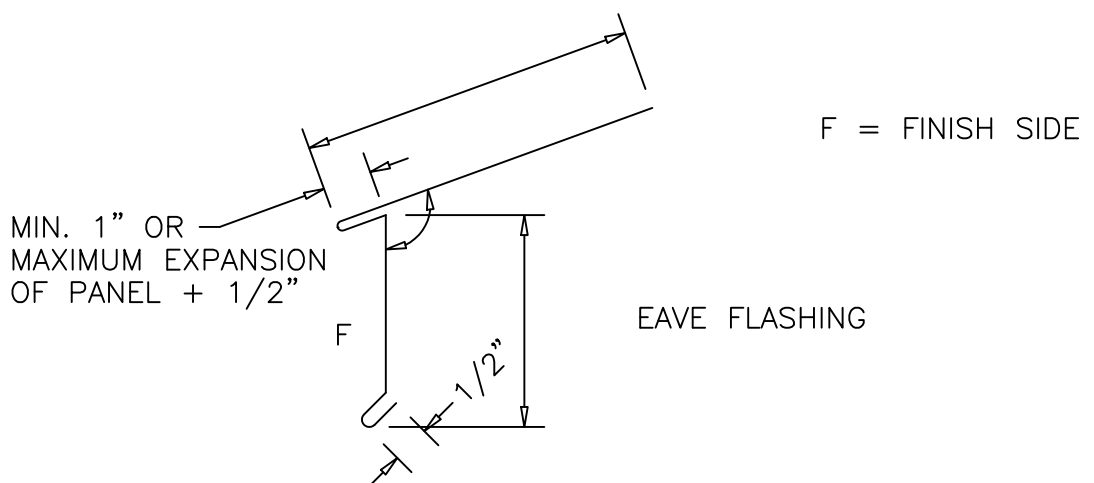
PAGE\FILE

CURVED ZEE-LOCK PANEL

CZ-10



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 PAGE CZI-8.
2. GAP BETWEEN EAVE FLASHING AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.
3. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
4. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
5. SEE ALSO EXPANSION JOINT DETAIL CZ-5.



DATE: 2/19/03

EAVE DETAIL
PANEL TURNDOWN; SOLID SUBSTRATE

PAGE\FILE

CZ-11 CURVED ZEE-LOCK PANEL

RIDGE CAP; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS, POP RIVET TO ZEE CLOSURE 40" O.C. MAX.

CONTINUOUS ZEE-RIB AND VINYL WEATHERSEAL WITH 2 FASTENERS 36" O.C.

ZEE CLOSURE; SEE DETAIL CZ-22

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE AND ZEE-LOCK PANEL.

FASTENERS; MIN. 2 PER ZEE CLOSURE

SOLID SHEATHING

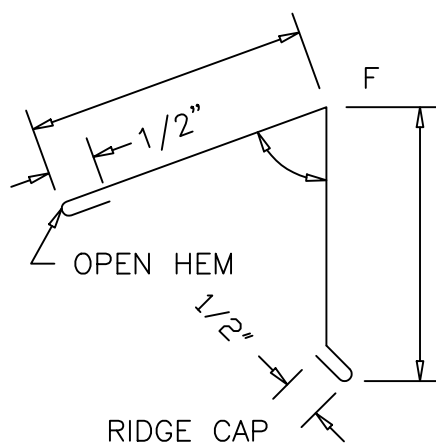
BERRIDGE CURVED ZEE-LOCK PANEL

ICE & WATERGUARD UNDERLAYMENT LAP OVER RIDGE

FASTENERS; 40" O.C. CAULK FASTENER HEAD

1. SEE DETAIL CZ-22 FOR ZEE CLOSURE AT RIDGE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

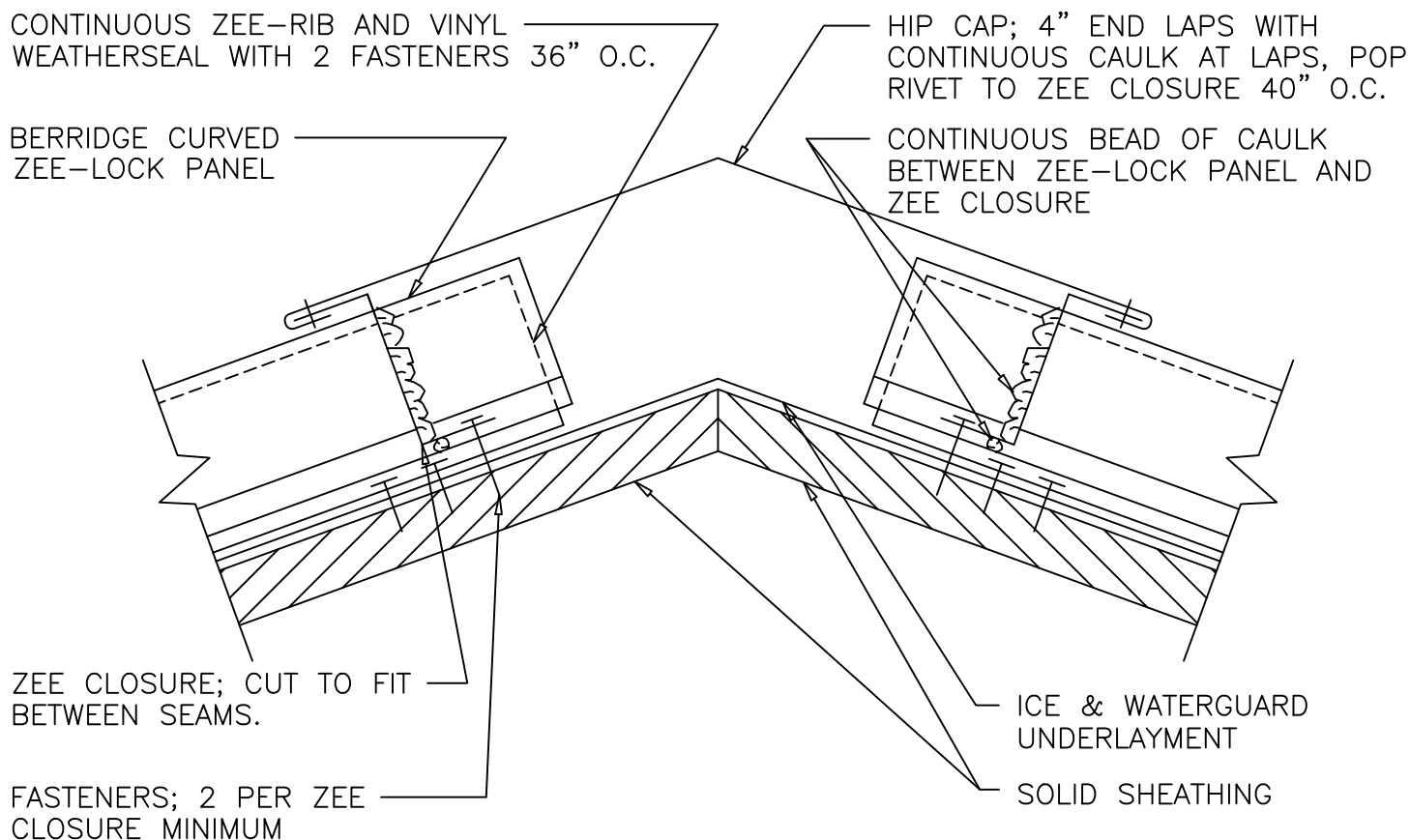


SHED ROOF RIDGE CAP
SOLID SUBSTRATE
CURVED ZEE-LOCK PANEL

DATE: 2/19/03

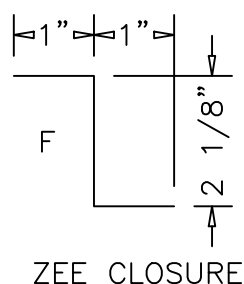
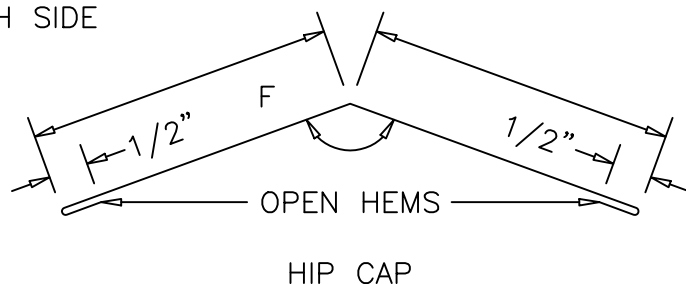
PAGE\FILE

CZ-20



1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS AT HIP.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE



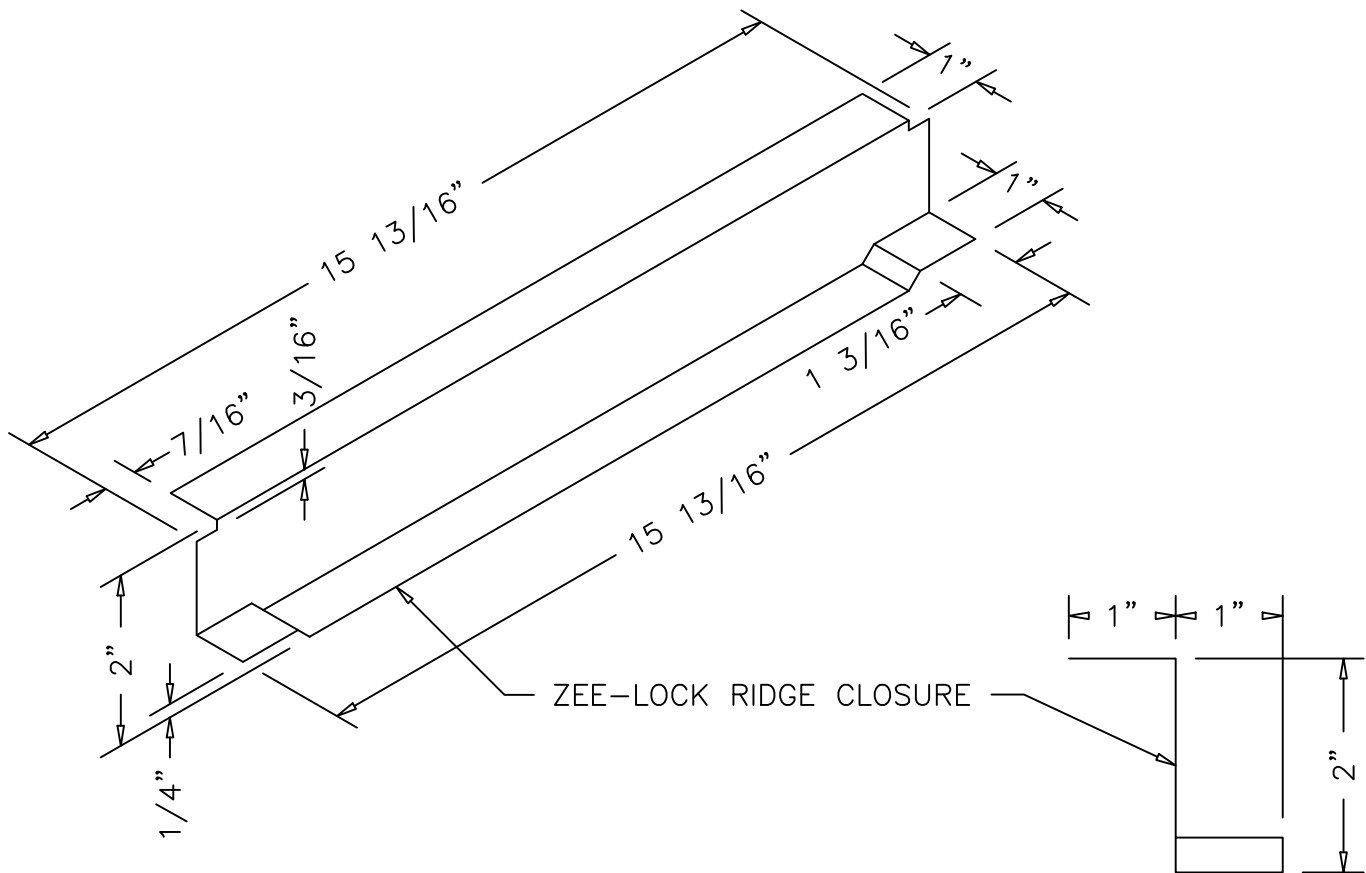
DATE: 2/19/03

PAGE\FILE

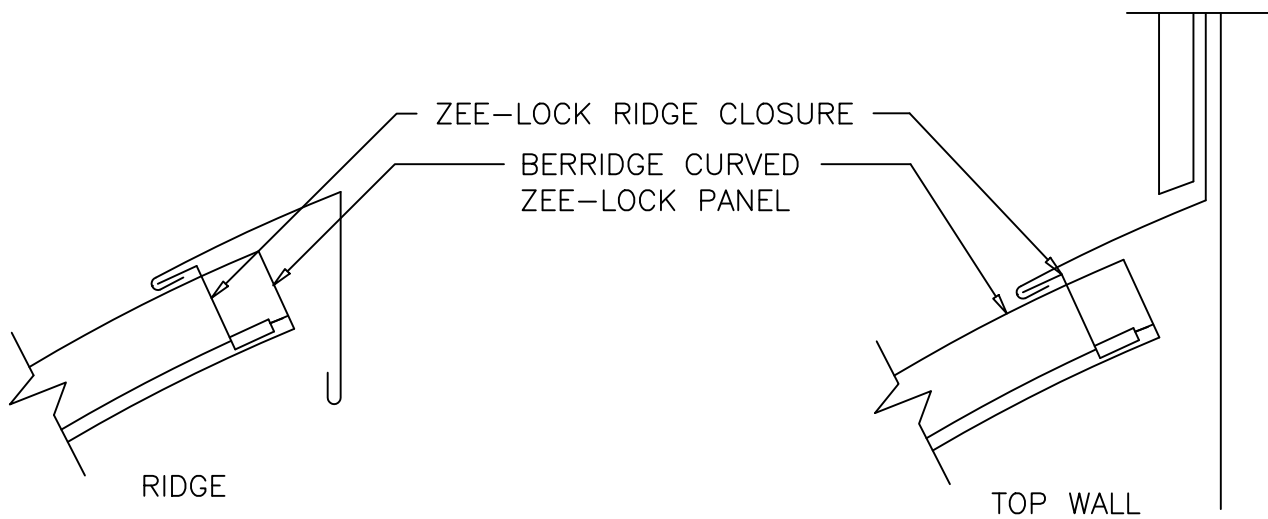
CZ-21

HIP DETAIL
SOLID SUBSTRATE

CURVED ZEE-LOCK PANEL



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

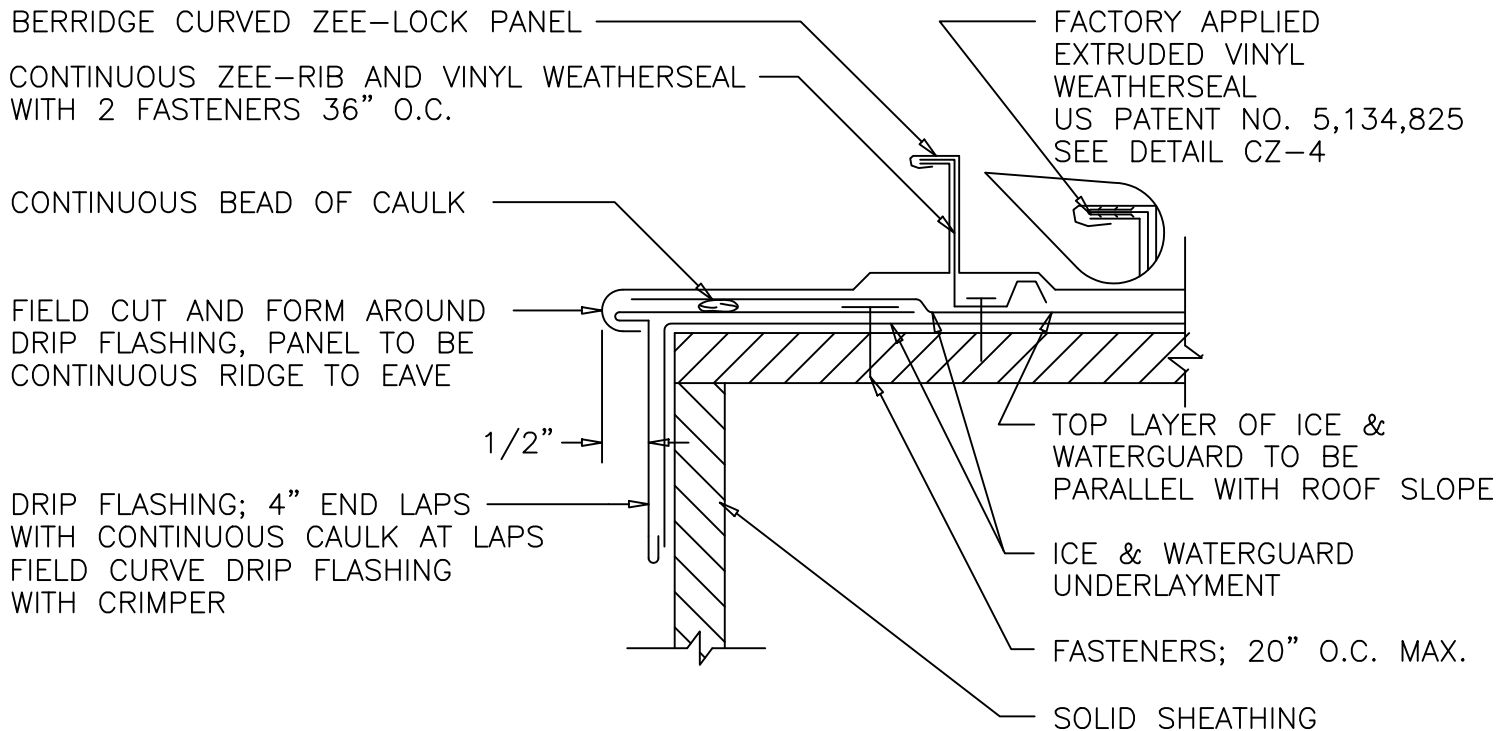


ZEE-LOCK
DIE FORMED CLOSURE
CURVED ZEE-LOCK PANEL

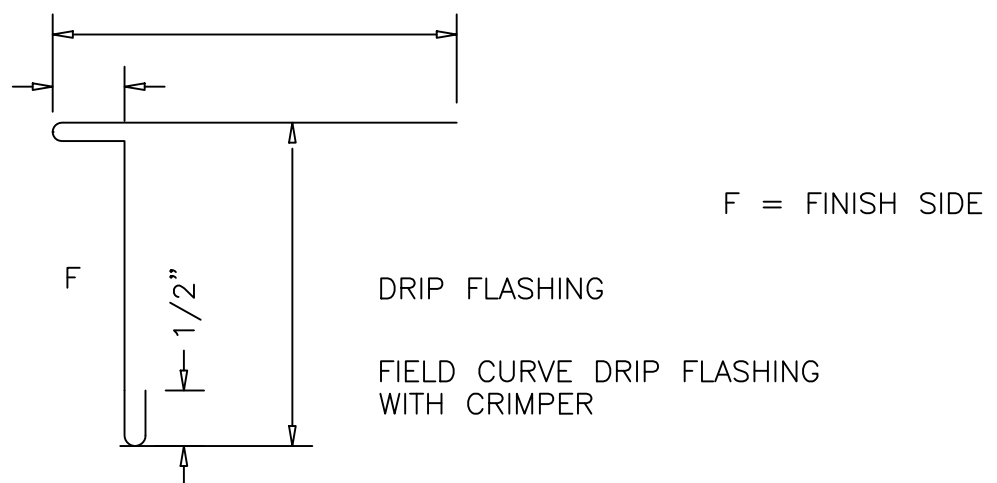
DATE: 2/19/03

PAGE\FILE

CZ-22



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 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

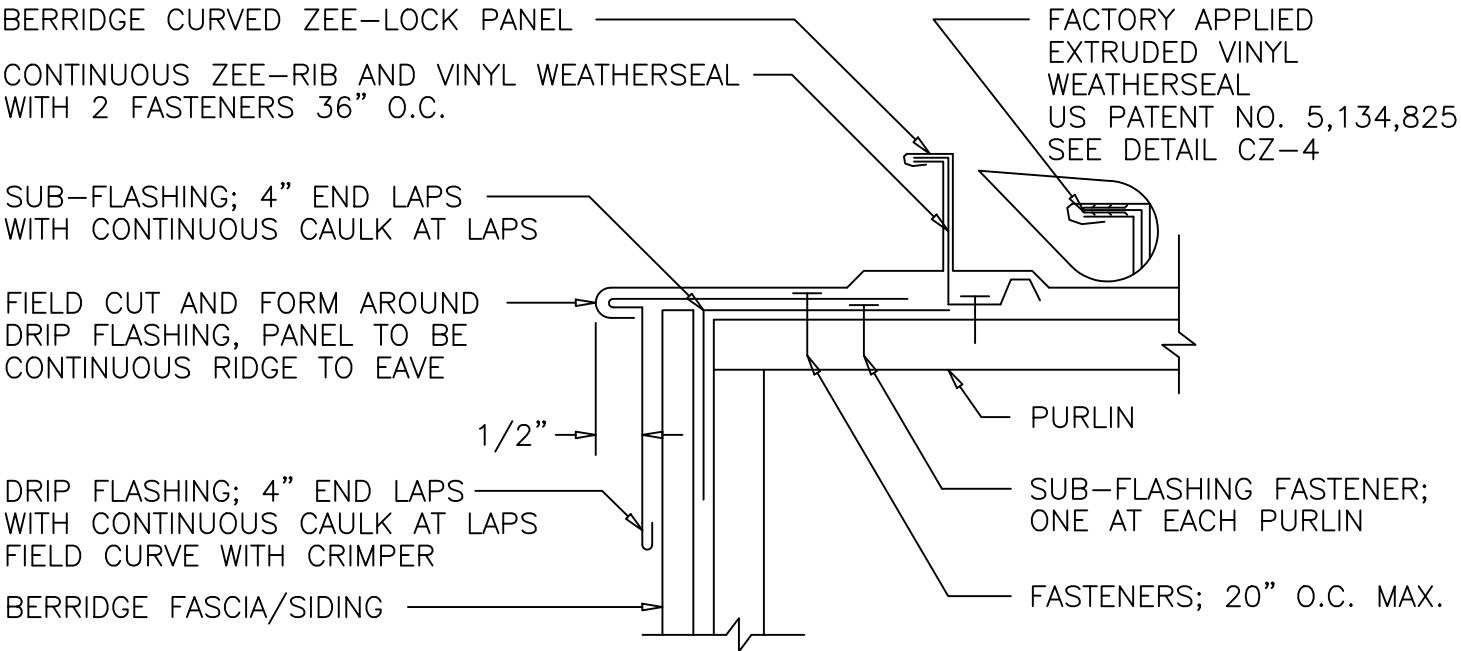


GABLE DETAIL
 PANEL TURNDOWN
 SOLID SUBSTRATE

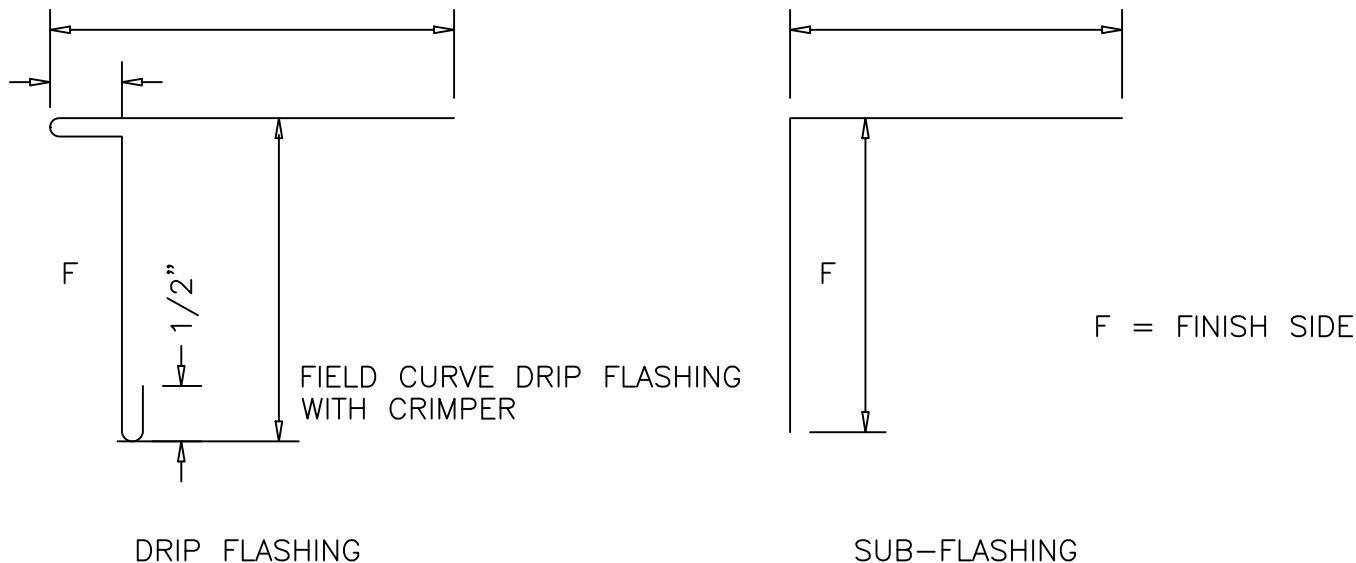
DATE: 2/19/03

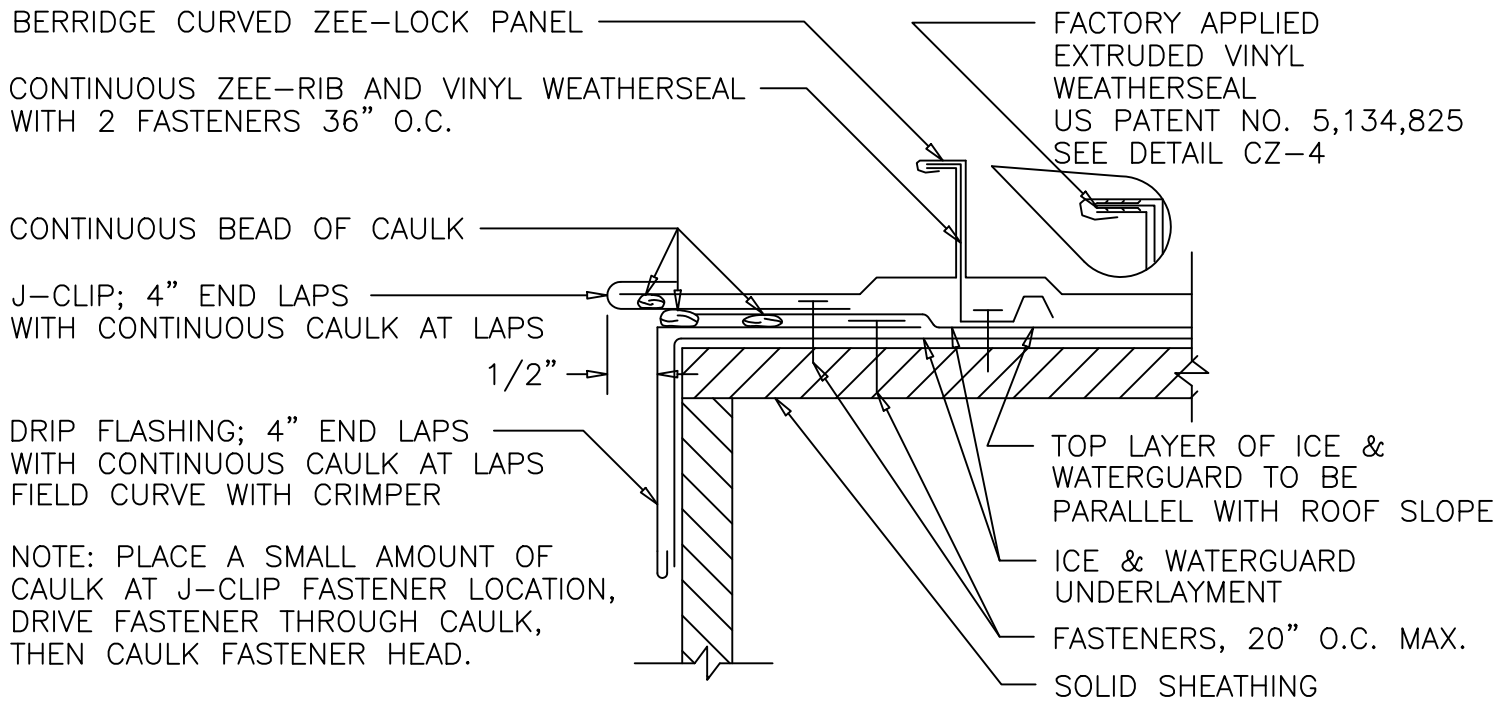
PAGE\FILE

CURVED ZEE-LOCK PANEL CZ-30



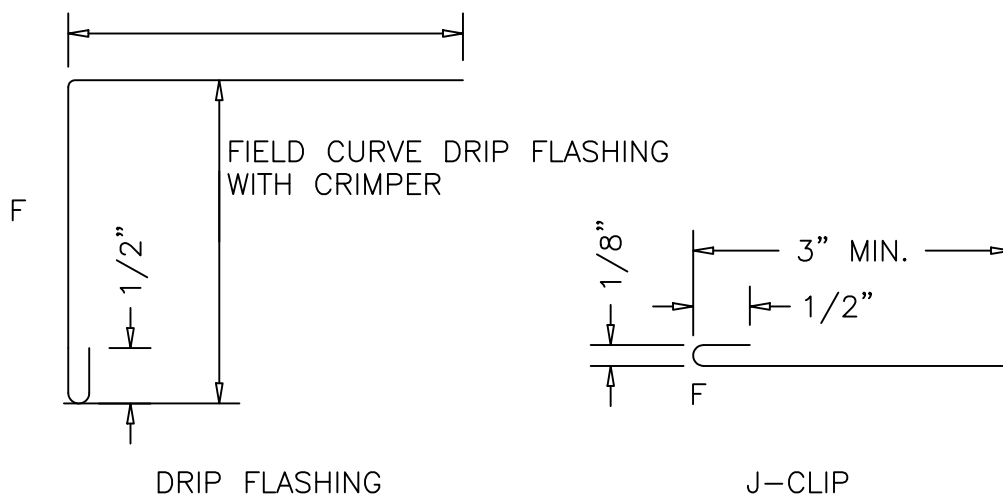
-
1. FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.
-

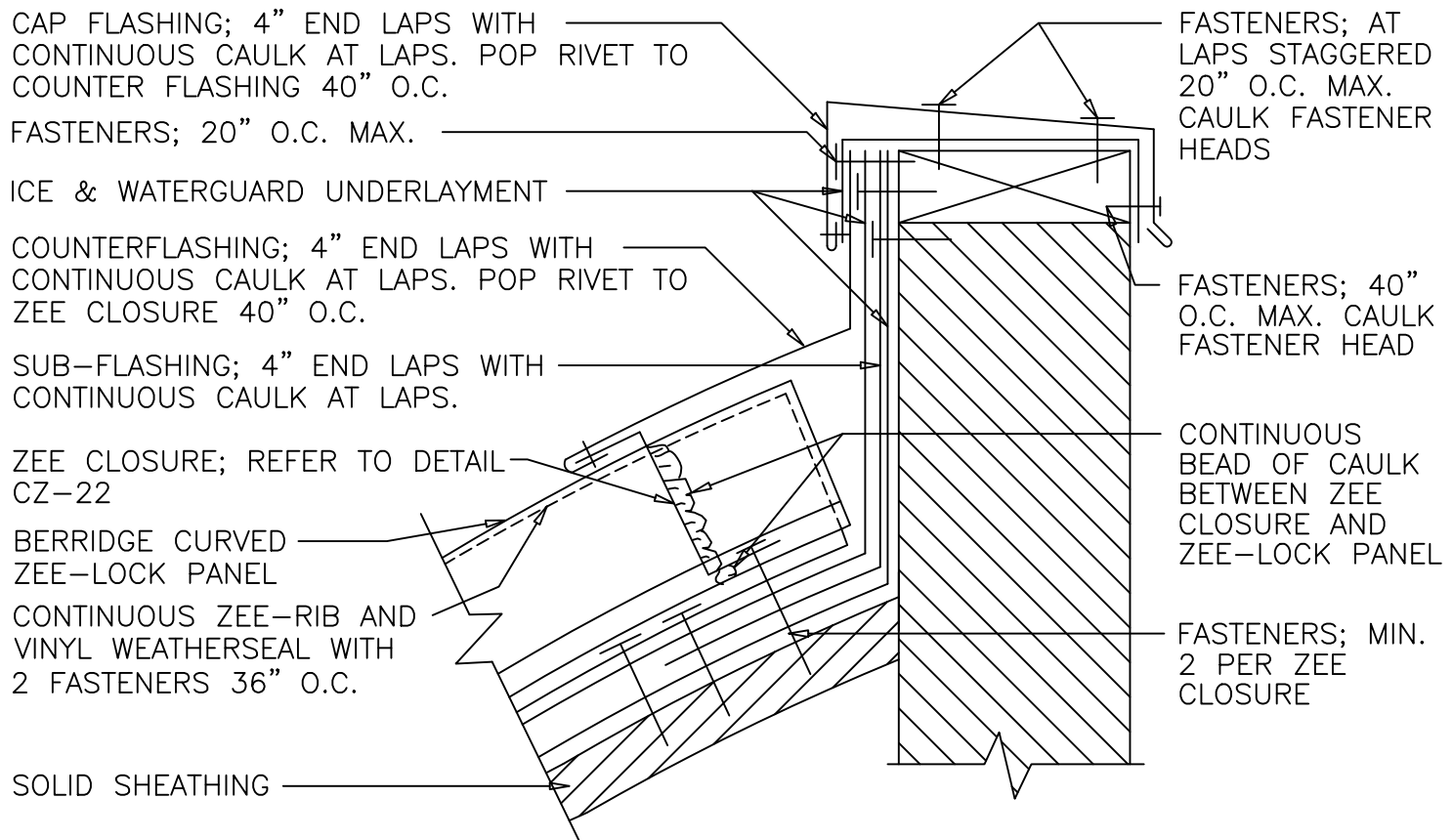




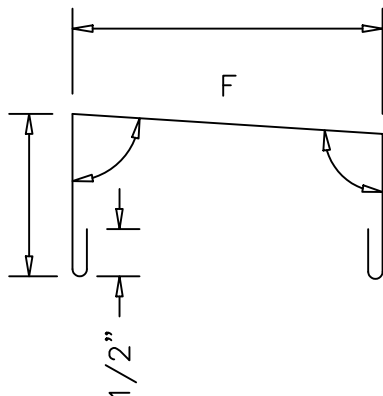
1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE WHEN USING THIS DETAIL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

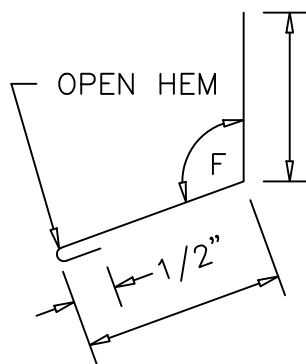




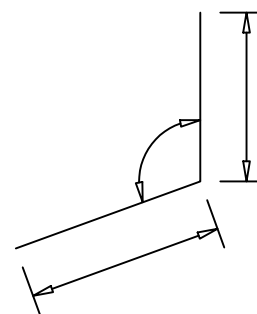
1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANEL SEAMS ARE NOT PERPENDICULAR TO WALL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



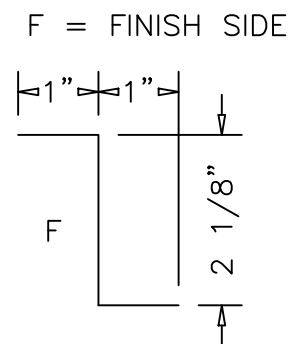
CAP FLASHING



COUNTERFLASHING



SUB-FLASHING



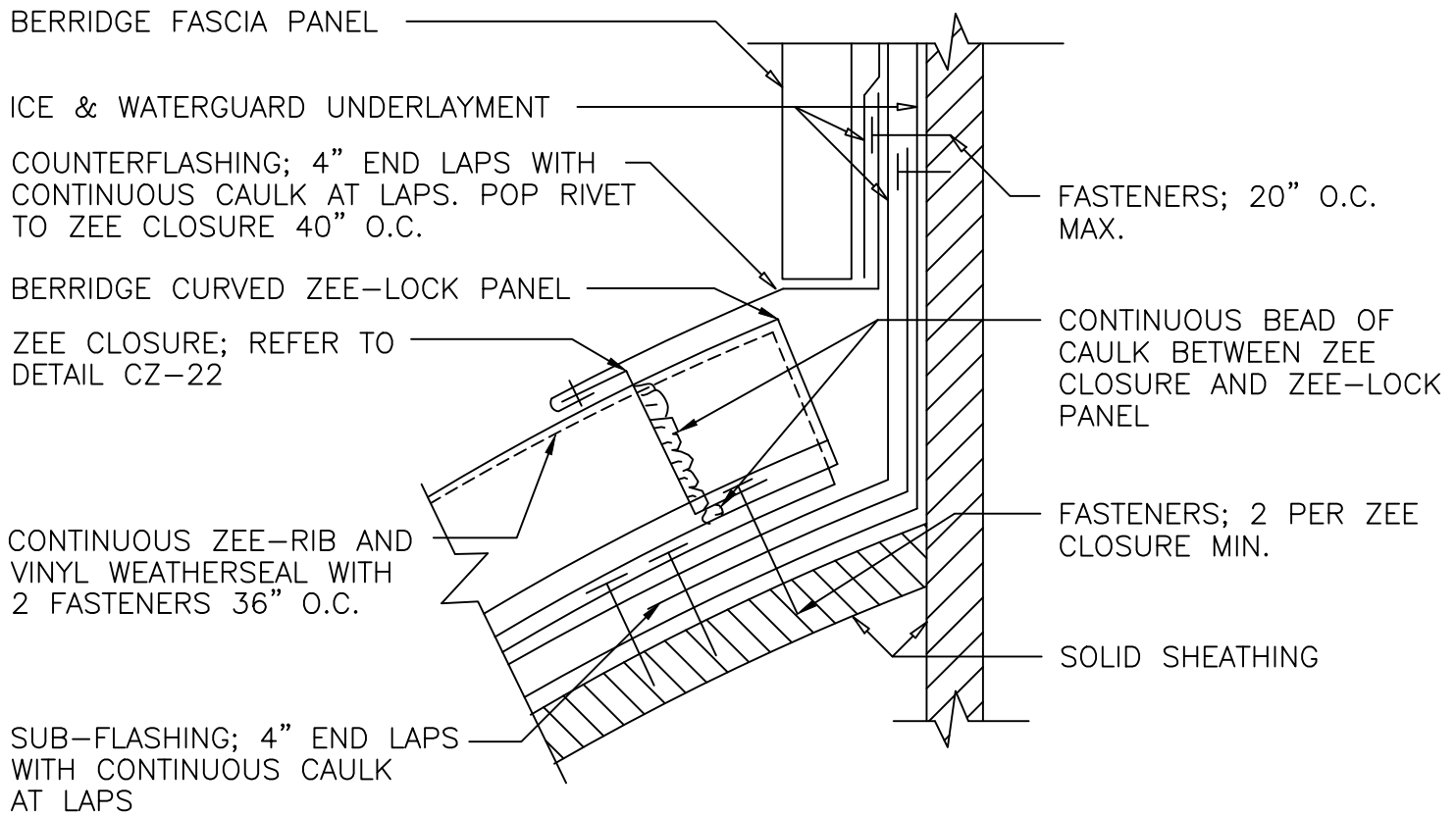
ZEE CLOSURE

PARAPET DETAIL
SOLID SUBSTRATE
CURVED ZEE-LOCK PANEL

DATE: 2/19/03

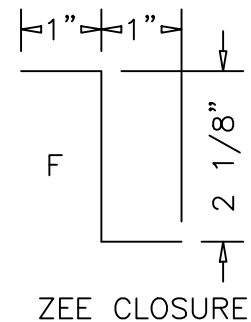
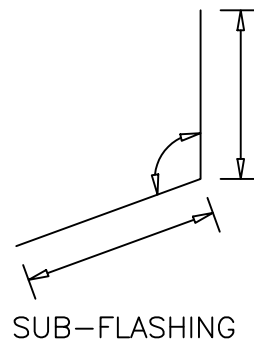
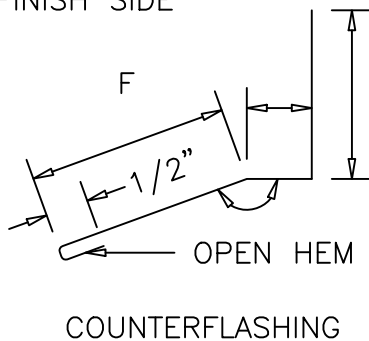
PAGE\FILE

CZ-40



1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANEL SEAMS ARE NOT PERPENDICULAR TO WALL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

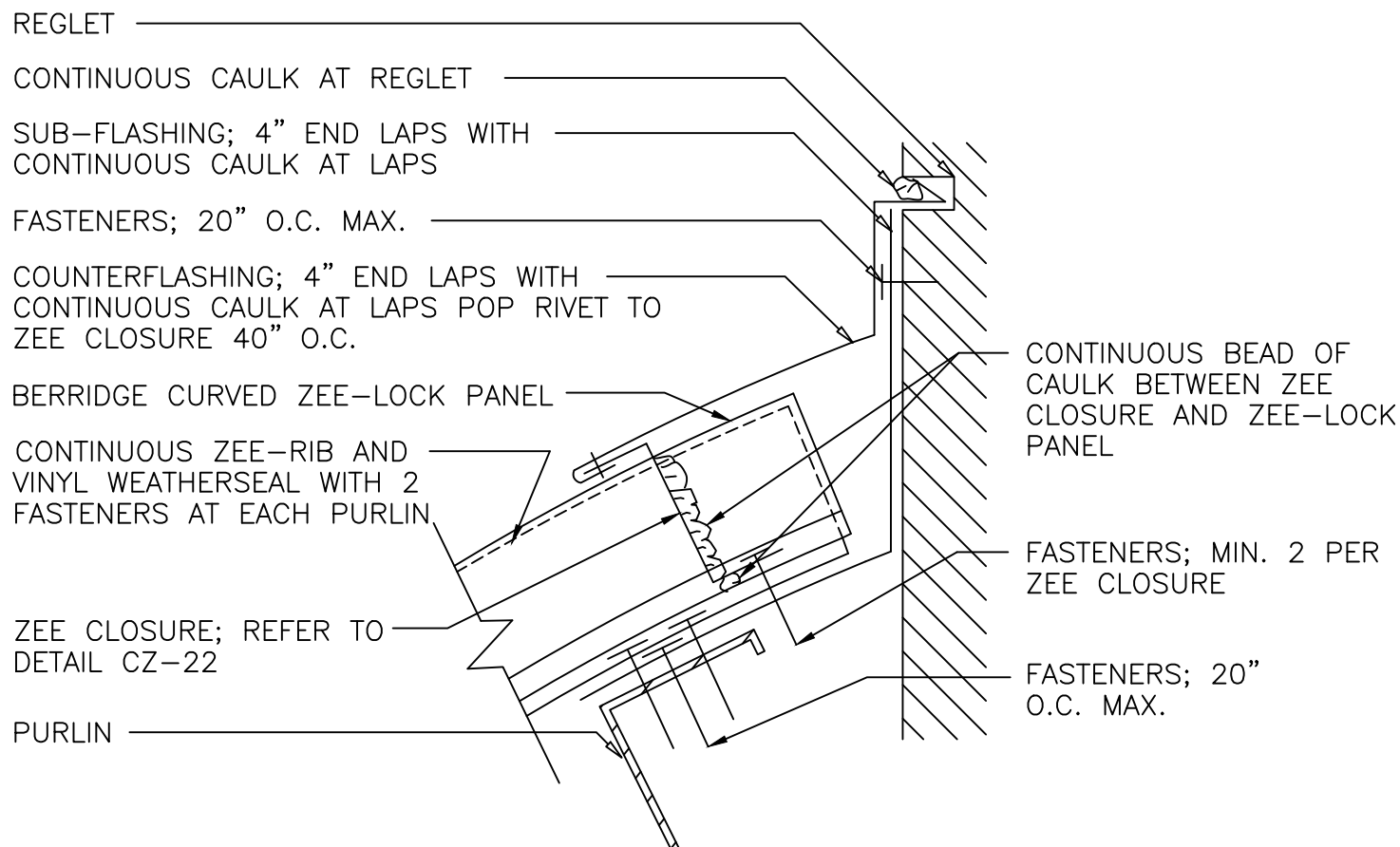


DATE: 2/19/03

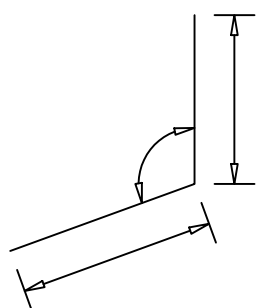
PAGE\FILE

CZ-41

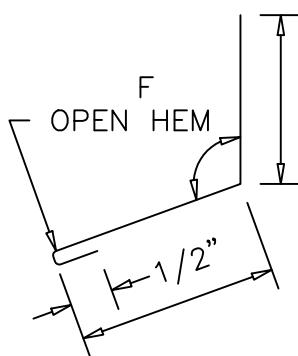
HEAD WALL DETAIL
SOLID SUBSTRATE
CURVED ZEE-LOCK PANEL



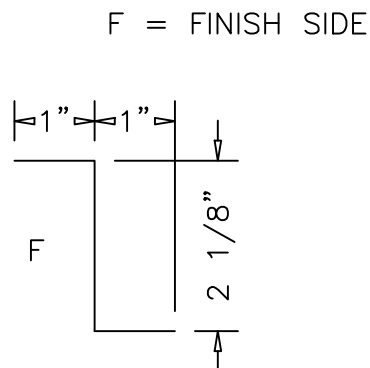
1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANEL SEAMS ARE NOT PERPENDICULAR TO WALL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



SUB-FLASHING



COUNTERFLASHING



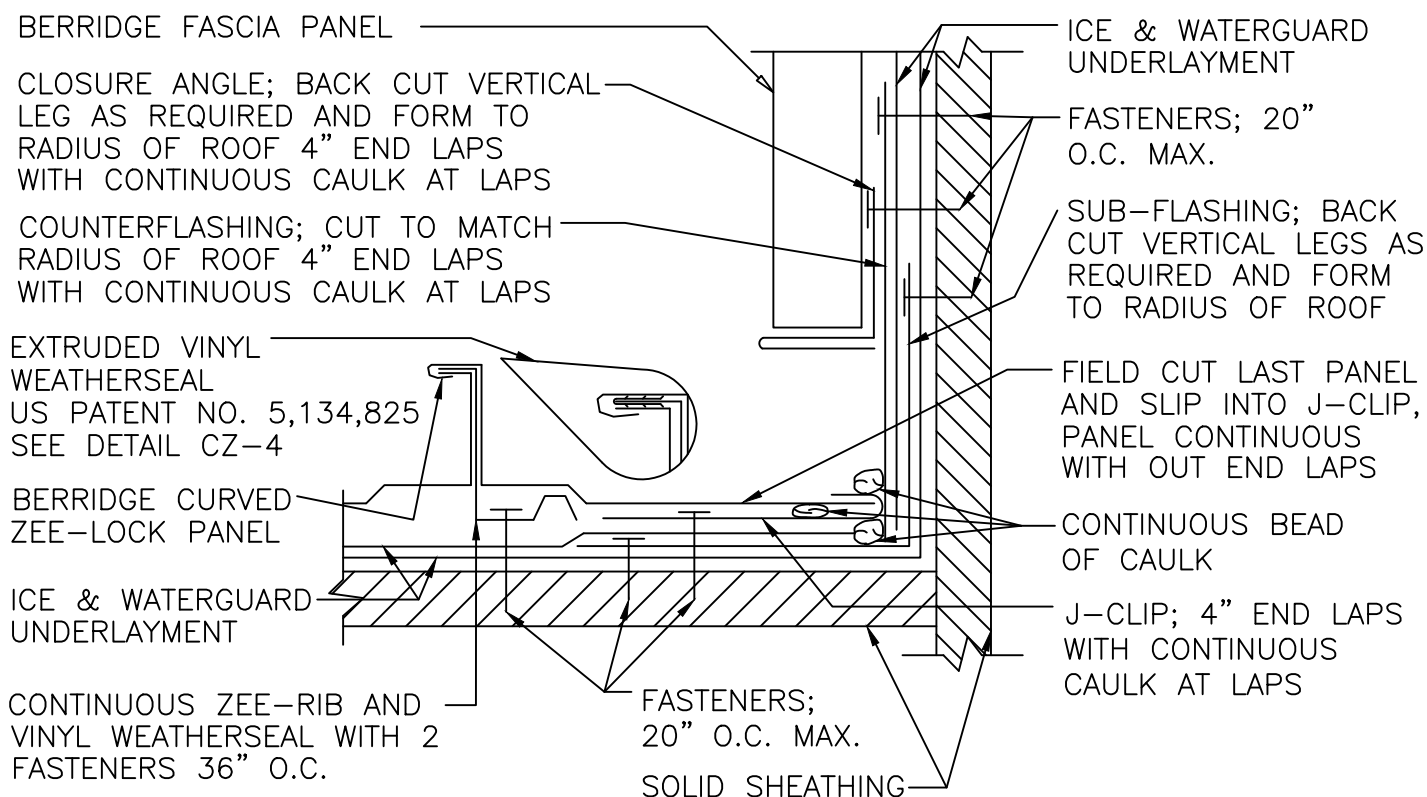
ZEE CLOSURE

HEAD WALL DETAIL OPEN FRAMING CURVED ZEE-LOCK PANEL

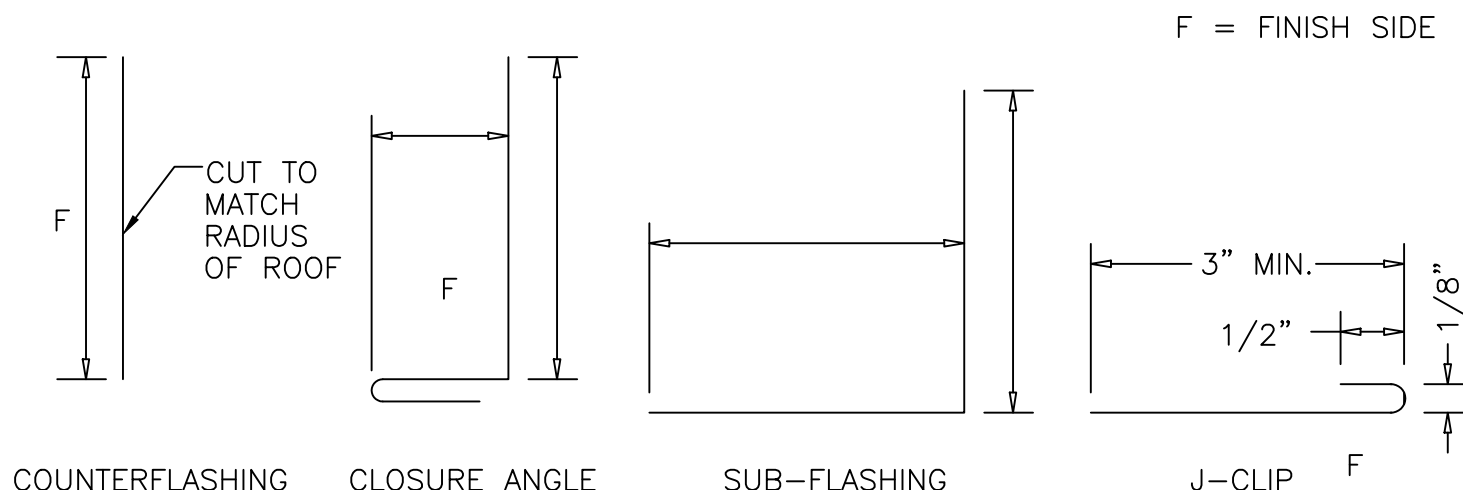
DATE: 2/19/03

PAGE\FILE

CZ-42



1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP. PANEL TO BE CONTINUOUS FROM RIDGE TO EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

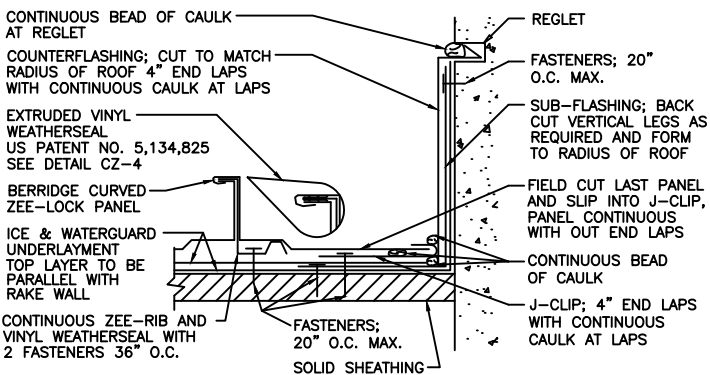


RAKE WALL DETAIL
COUNTERFLASHING
SOLID SUBSTRATE

DATE: 2/19/03

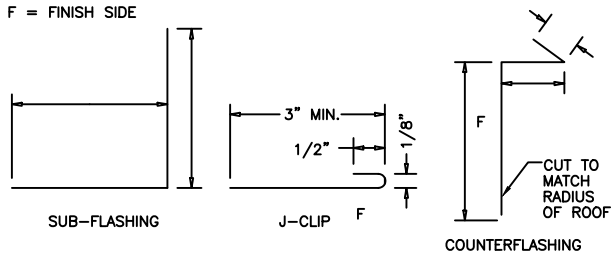
PAGE\FILE

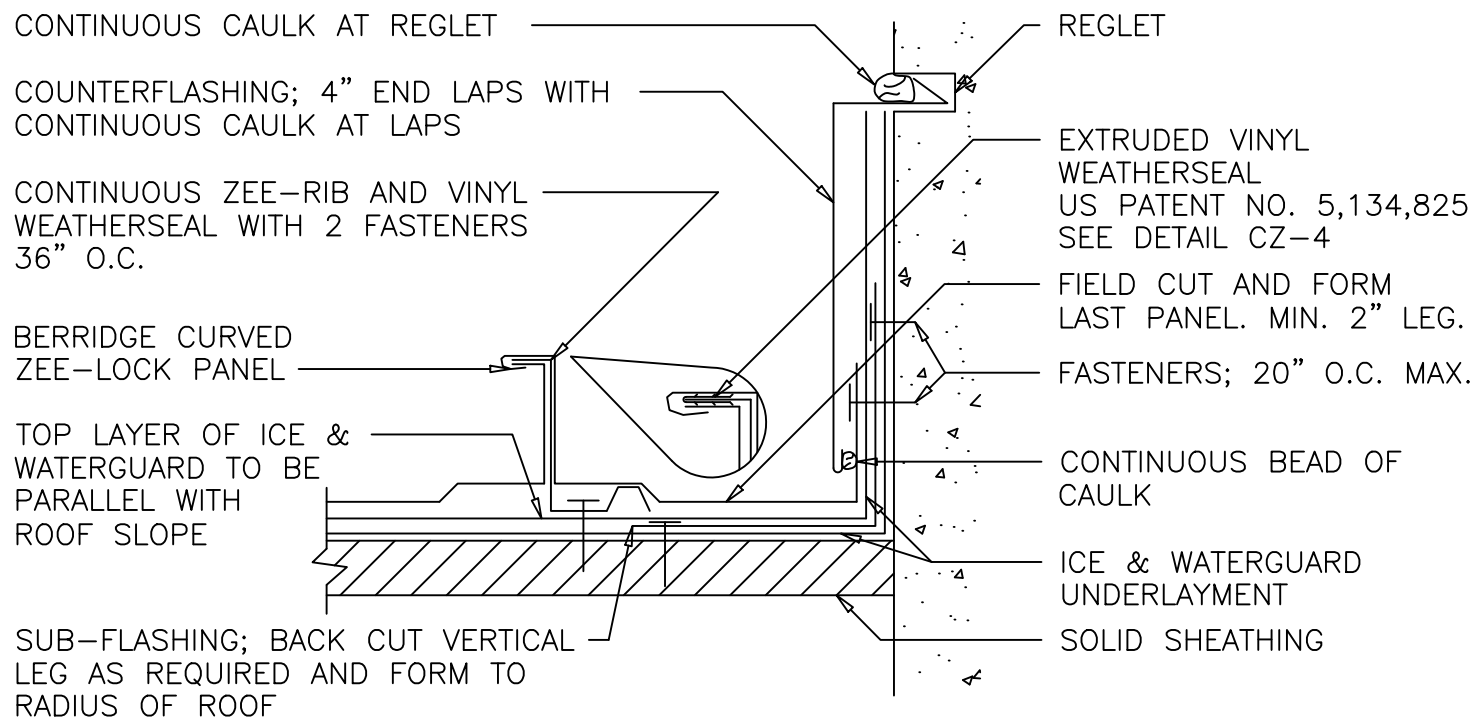
CURVED ZEE-LOCK PANEL CZ-50



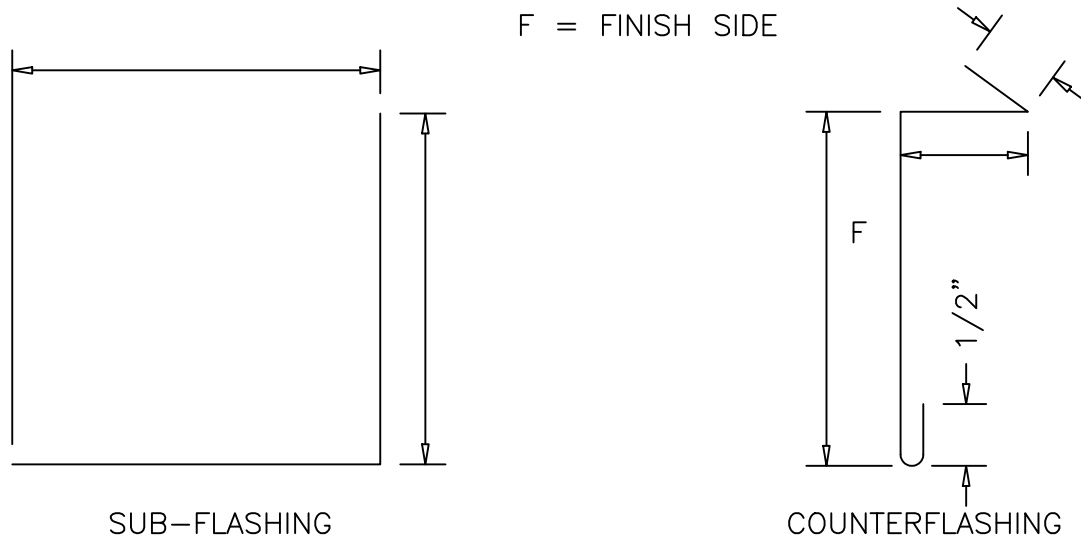
1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP. PANEL TO BE CONTINUOUS FROM RIDGE TO EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE





1. FIELD CUT LAST PANEL AND FORM NEW LEG. PANEL TO BE CONTINUOUS FROM RIDGE TO EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

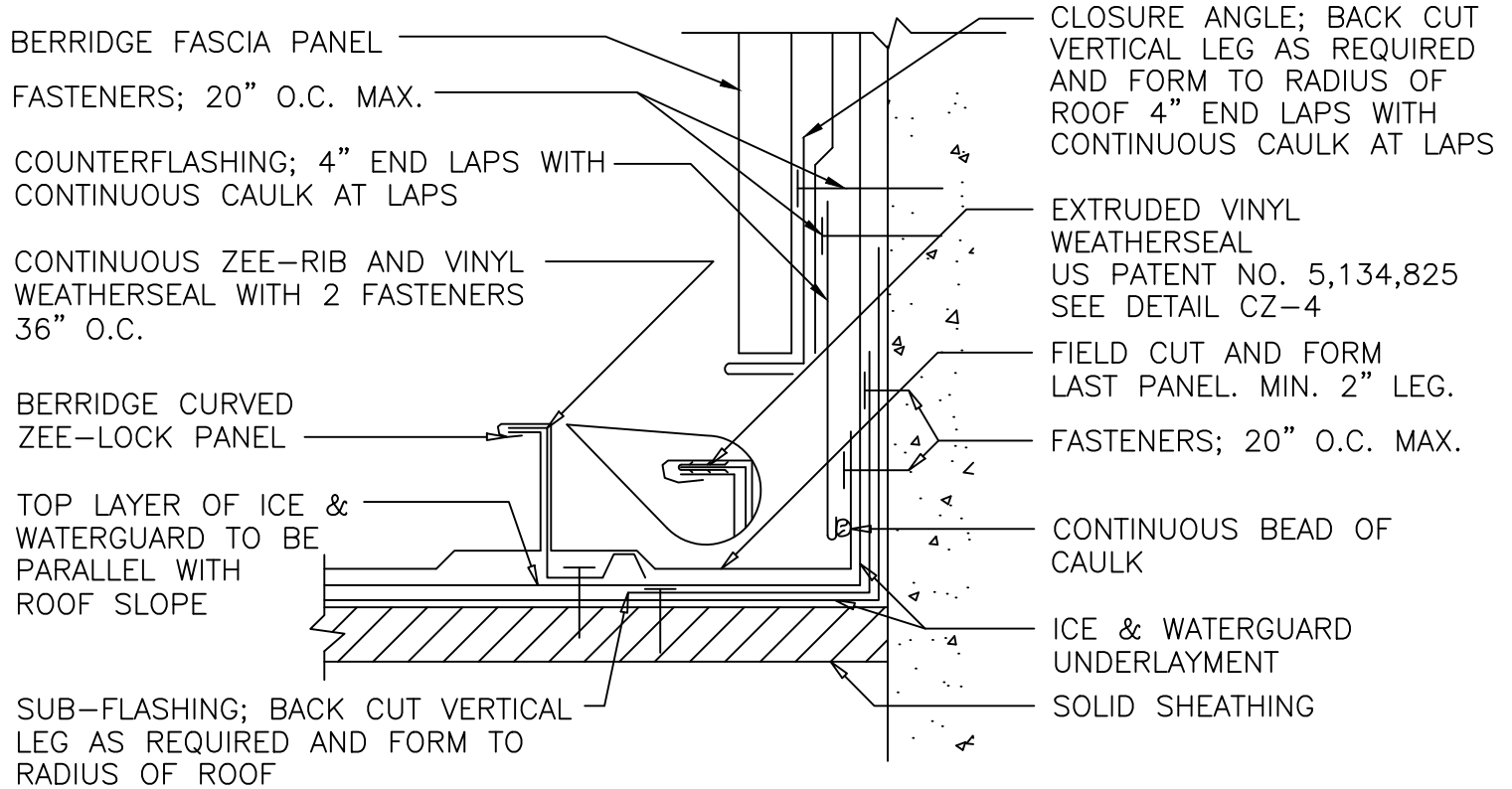


RAKE WALL DETAIL
REGLET
SOLID SUBSTRATE
CURVED ZEE-LOCK PANEL

DATE: 2/19/03

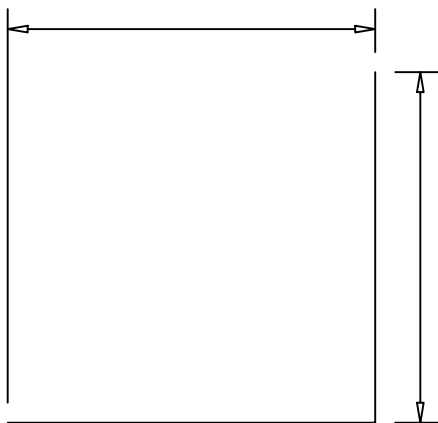
PAGE\FILE

CZ-52

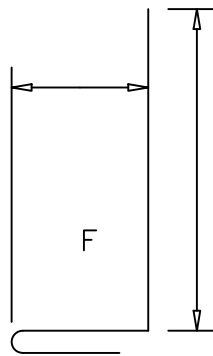


1. FIELD CUT LAST PANEL AND FORM NEW LEG. PANEL TO BE CONTINUOUS FROM RIDGE TO EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

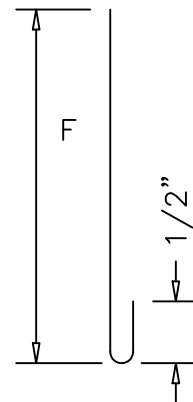
F = FINISH SIDE



SUB-FLASHING



CLOSURE ANGLE



COUNTERFLASHING

DATE: 2/19/03

PAGE\FILE

CZ-53

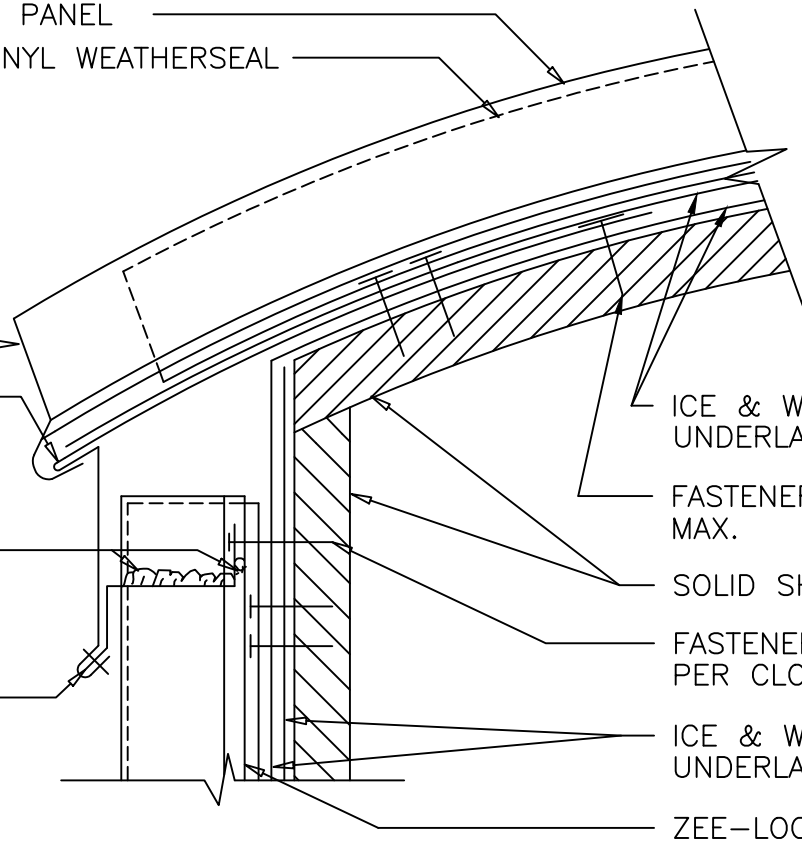
RAKE WALL DETAIL
REGLET
SOLID SUBSTRATE

CURVED ZEE-LOCK PANEL

BERRIDGE CURVED ZEE-LOCK PANEL
 CONTINUOUS ZEE-RIB AND VINYL WEATHERSEAL
 WITH 2 FASTENERS 36" O.C.

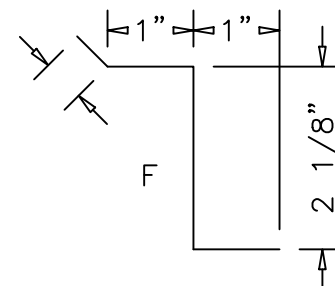
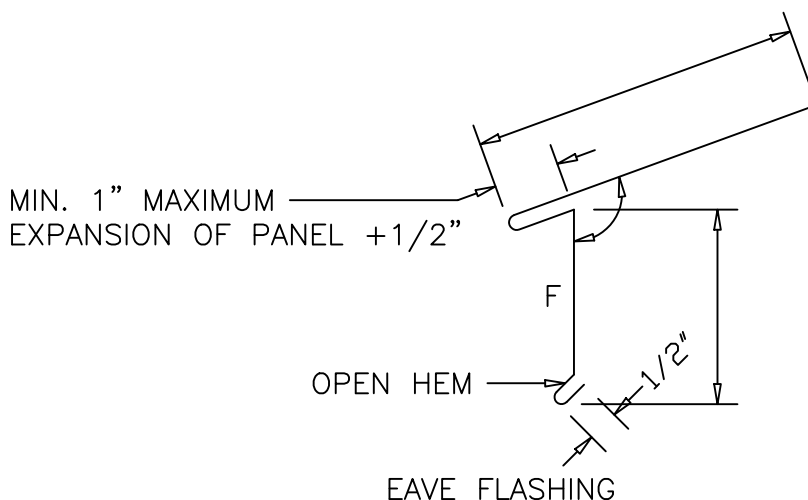
FIELD NOTCH PANEL SEAM
 EAVE FLASHING; 4" END
 LAPS WITH CONTINUOUS
 CAULK AT LAPS, POP RIVET
 TO ZEE CLOSURE 40" O.C.
 CONTINUOUS BEAD OF
 CAULK BETWEEN ZEE
 CLOSURE AND ZEE-LOCK
 PANEL
 SPECIAL ZEE CLOSURE

ICE & WATERGUARD
 UNDERLAYMENT
 FASTENERS; 20" O.C.
 MAX.
 SOLID SHEATHING
 FASTENERS; MIN. 3
 PER CLOSURE
 ICE & WATERGUARD
 UNDERLAYMENT
 ZEE-LOCK PANEL



1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE



EAVE FLASHING

SPECIAL ZEE CLOSURE

ROOF TO FASCIA TRANSITION
 COUNTER FLASHING
 SOLID SUBSTRATE

CURVED ZEE-LOCK PANEL

DATE: 2/19/03

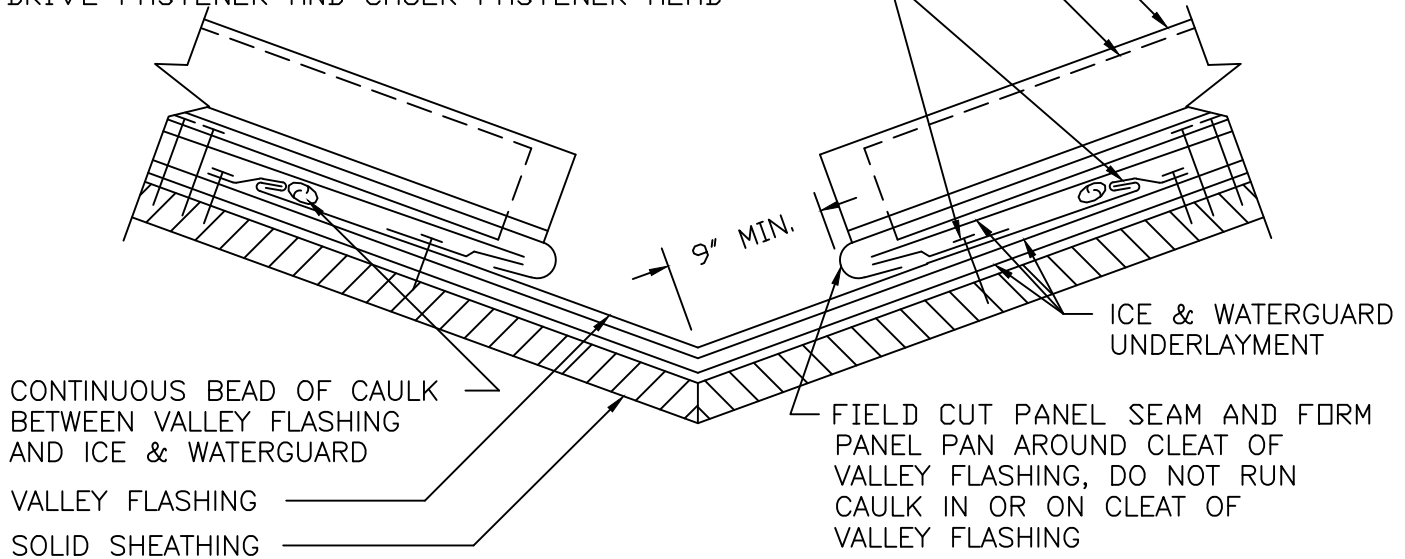
PAGE\FILE

CZ-60

BERRIDGE CURVED ZEE-LOCK PANEL

CONTINUOUS ZEE-RIB AND VINYL WEATHERSEAL
WITH 2 FASTENERS 36" O.C.

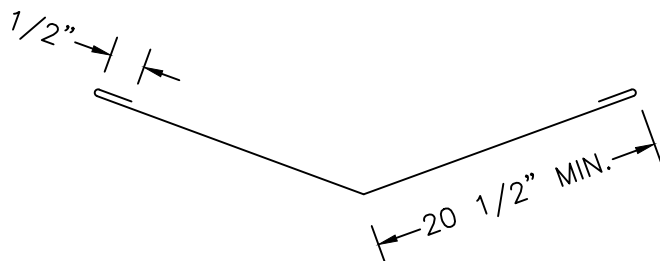
CONTINUOUS CLEAT; WITH FASTENERS 20" O.C. MAX.
PLACE A DAB OF CAULK AT FASTENER LOCATION
DRIVE FASTENER AND CAULK FASTENER HEAD



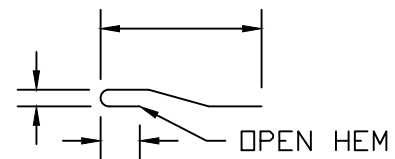
USE SHORT LENGTH FLASHING AND
FAN LAYOUT AROUND VALLEY, FLASHING LAPS
MINIMUM 12" (SEE ALSO DETAIL CZ-71)

1. FOR EXPANSION AND CONTRACTION OF PANELS, SEE CZI-8 AND CZ-10.
2. SOLID SHEATHING (BY OTHERS) TO BE A MINIMUM OF 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE



VALLEY FLASHING



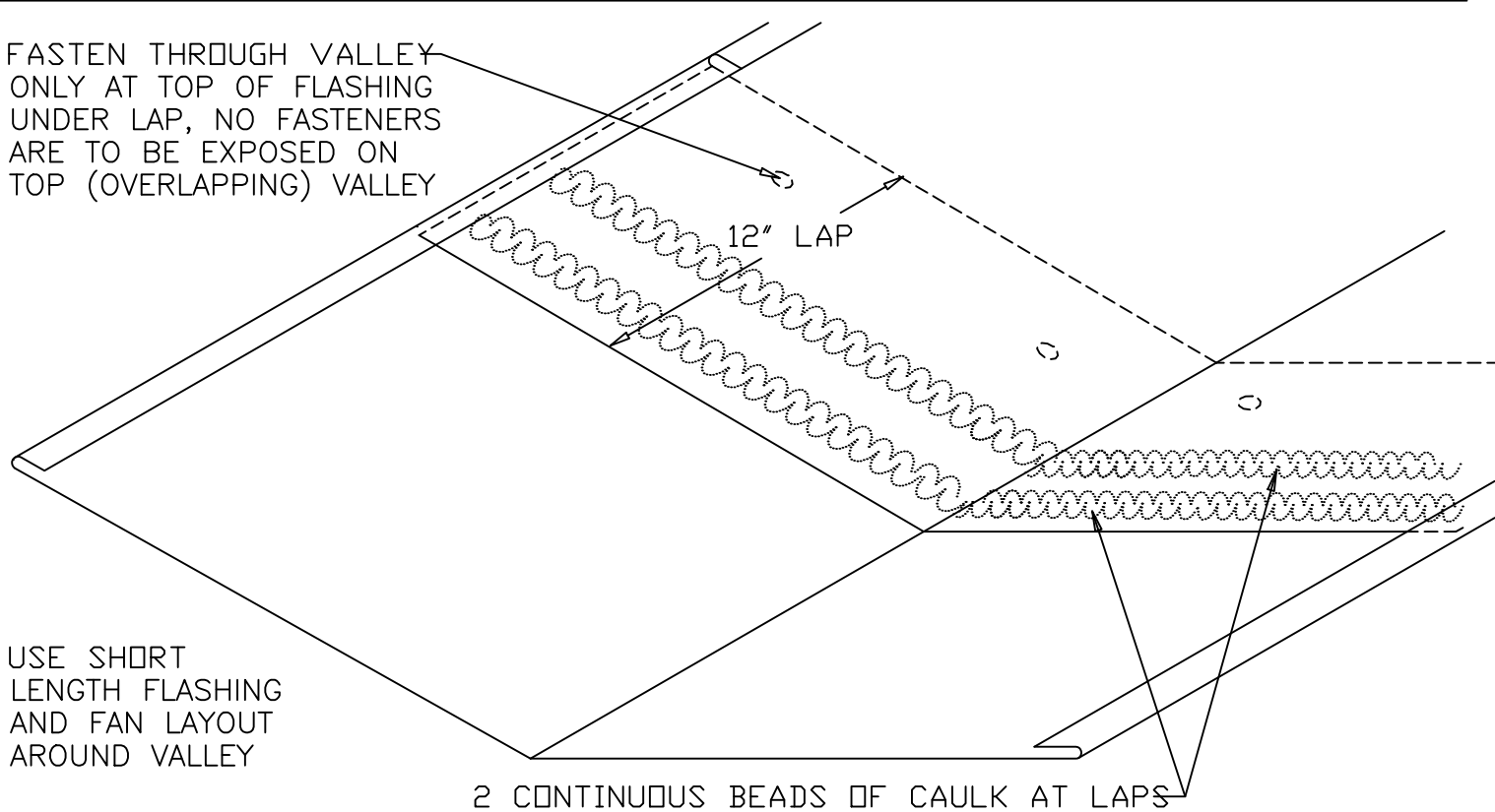
CONTINUOUS CLEAT

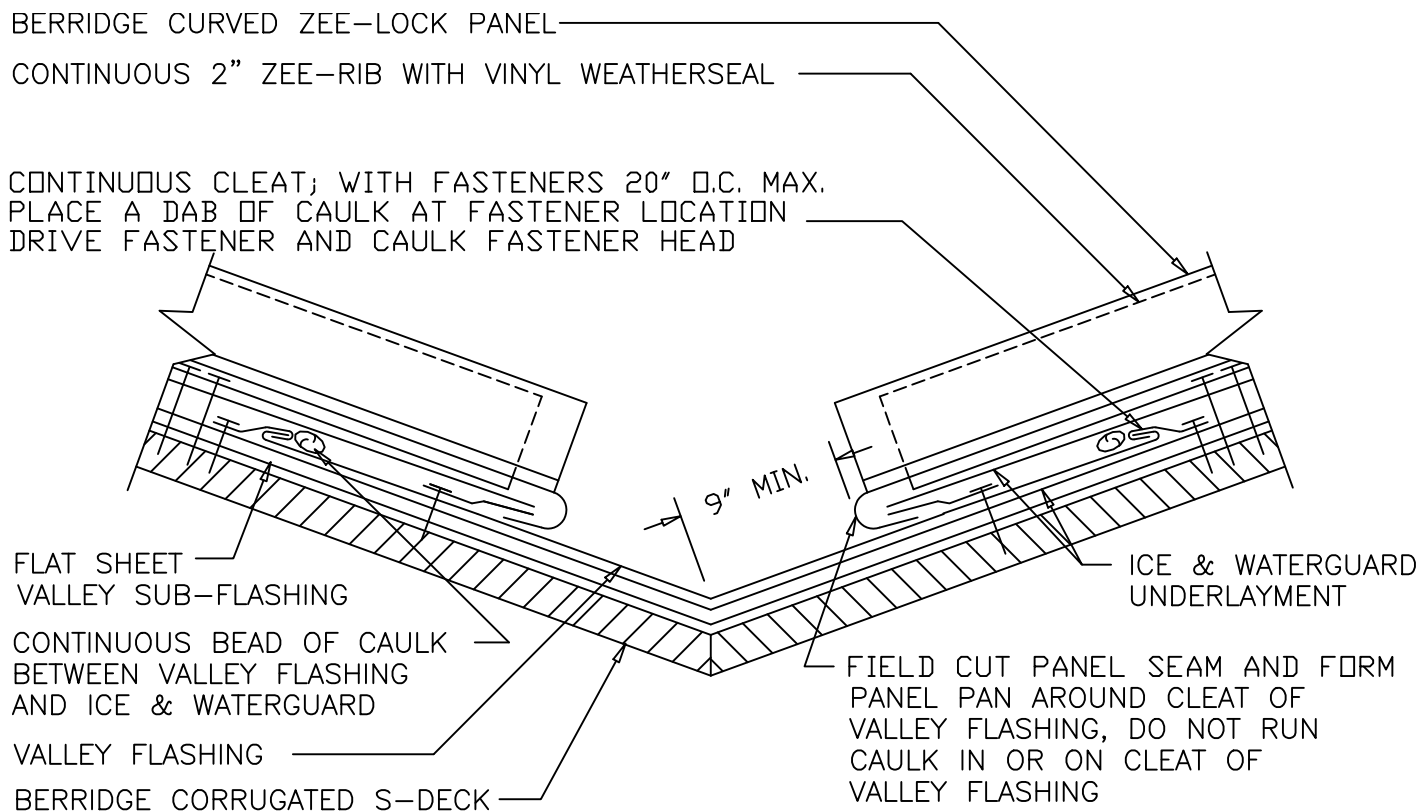
VALLEY DETAIL
SOLID SUBSTRATE
CURVED ZEE-LOCK PANEL

DATE: 2/19/03

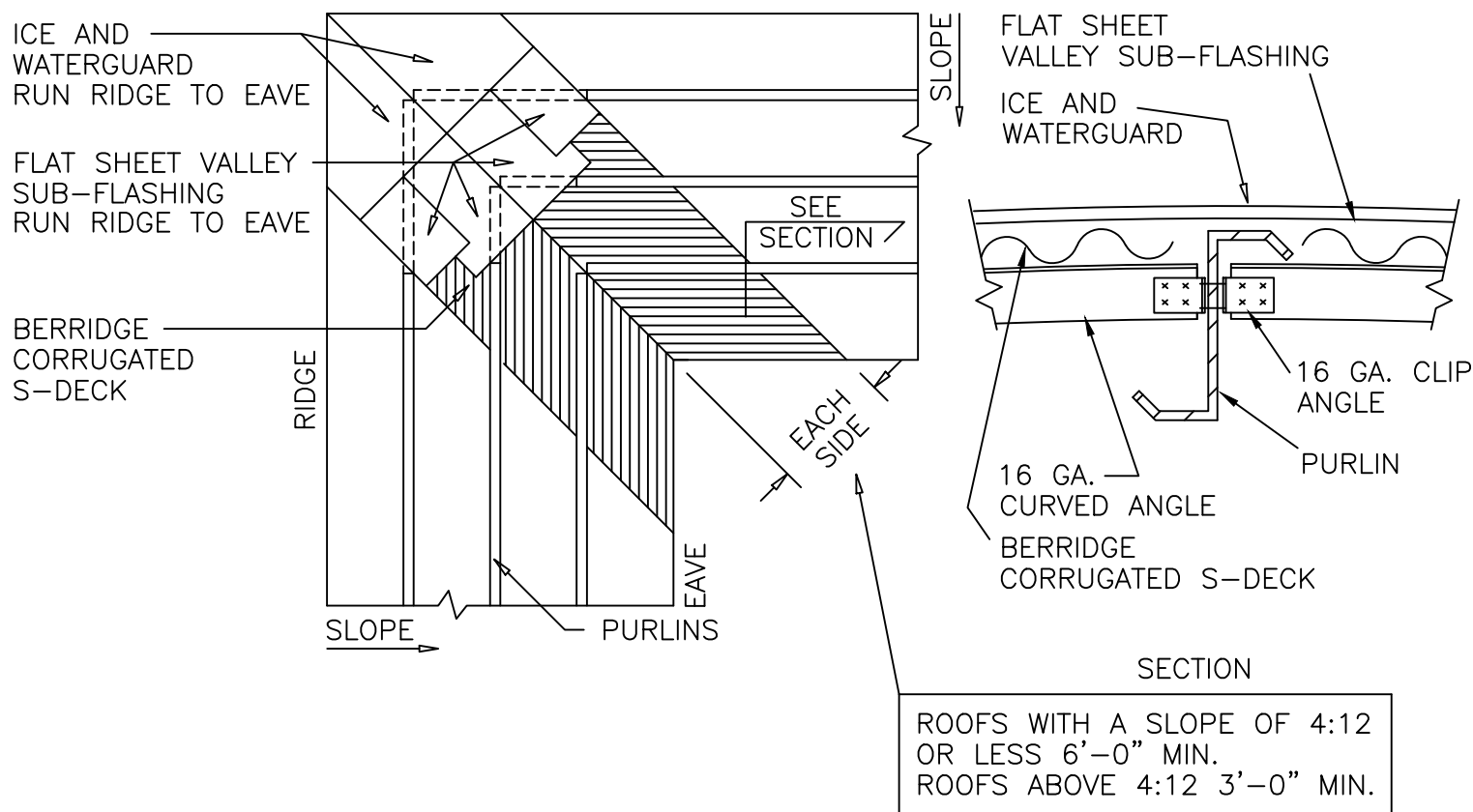
PAGE\FILE

CZ-70





* FLASHING PROFILES AND NOTES, SEE DETAIL CZ-70 AND CZ-71

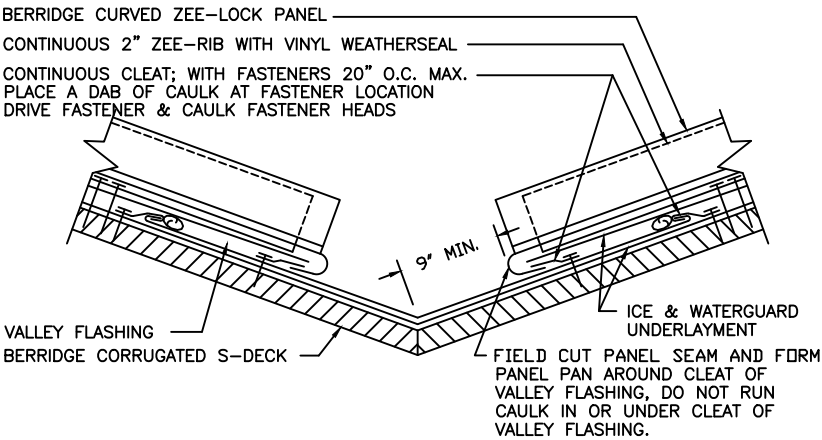


VALLEY DETAIL
OPEN FRAMING; 2" ZEE-RIB
CURVED ZEE-LOCK PANEL

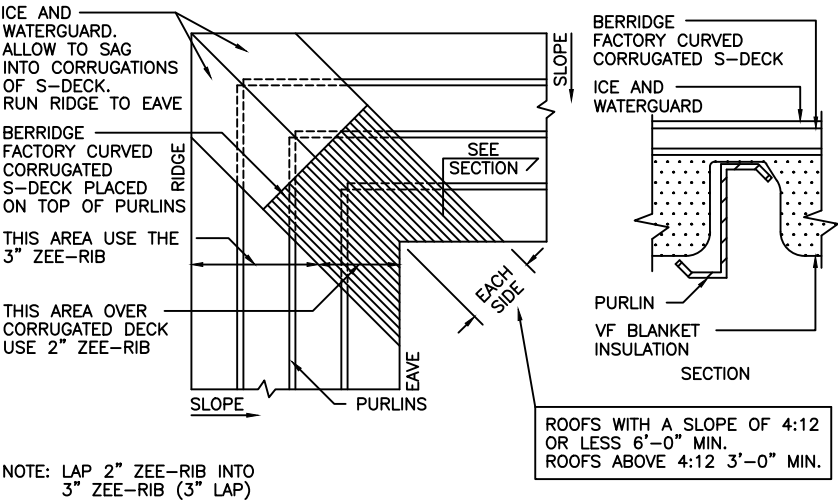
DATE: 2/19/03

PAGE\FILE

CZ-72



* FLASHING PROFILES AND NOTES, SEE DETAIL CZ-70 AND CZ-71

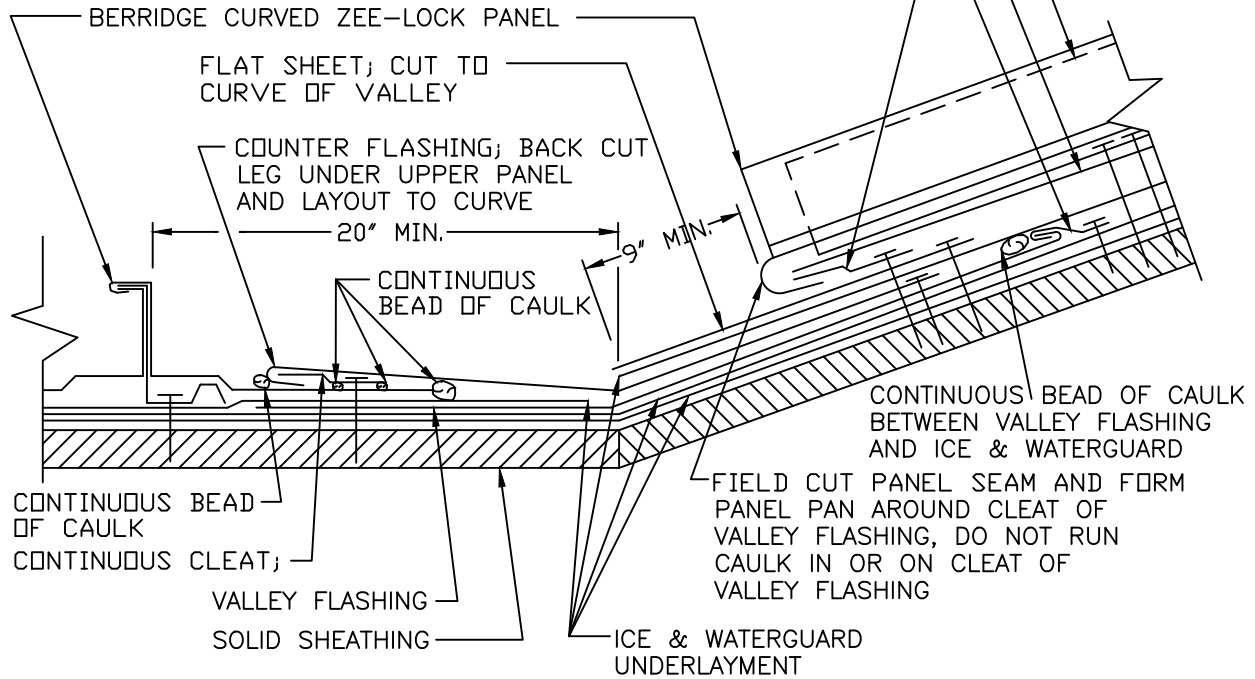


DATE: 2/19/03 VALLEY DETAIL
OPEN FRAMING; 3" ZEE-RIB WITH THERMAL
BLOCKS AND VINYL FACED INSULATION

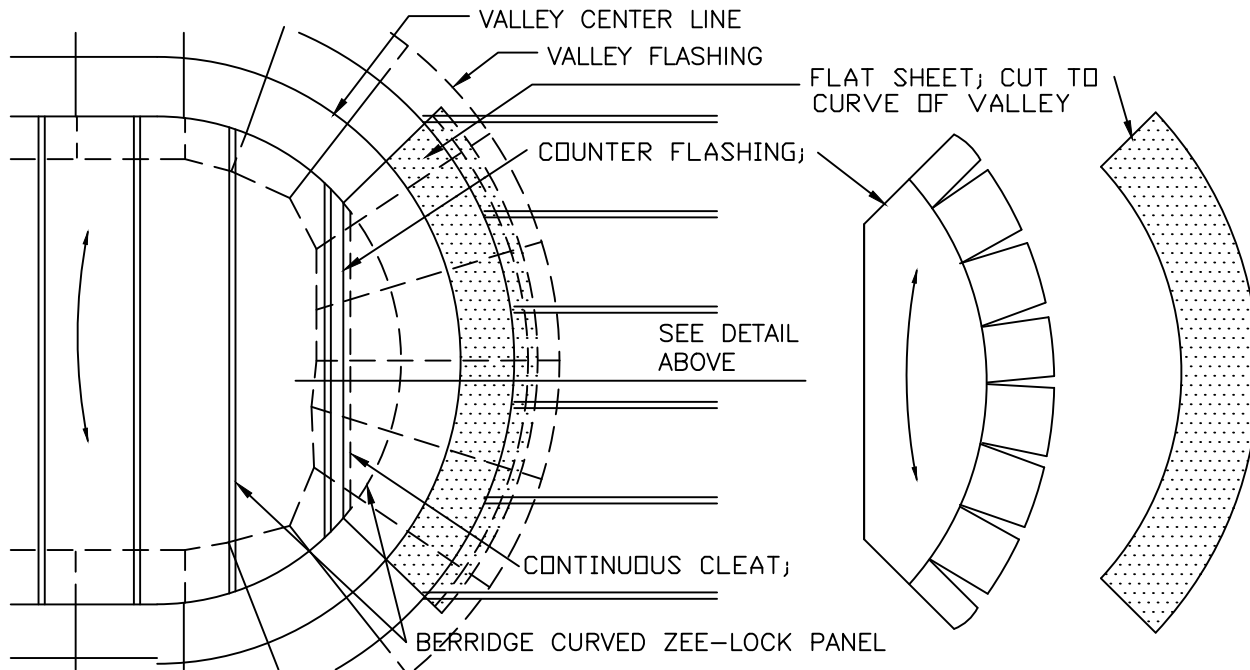
CONTINUOUS ZEE-RIB AND VINYL WEATHERSEAL
WITH 2 FASTENERS 36" O.C.

ICE & WATERGUARD
UNDERLAYMENT

CONTINUOUS CLEAT; WITH FASTENERS 20" O.C. MAX.
PLACE A DAB OF CAULK AT FASTENER LOCATION
DRIVE FASTENER AND CAULK FASTENER HEAD



USE SHORT LENGTH FLASHING AND
FAN LAYOUT AROUND VALLEY, FLASHING LAPS MINIMUM 12" (SEE ALSO DETAIL CZ-71)

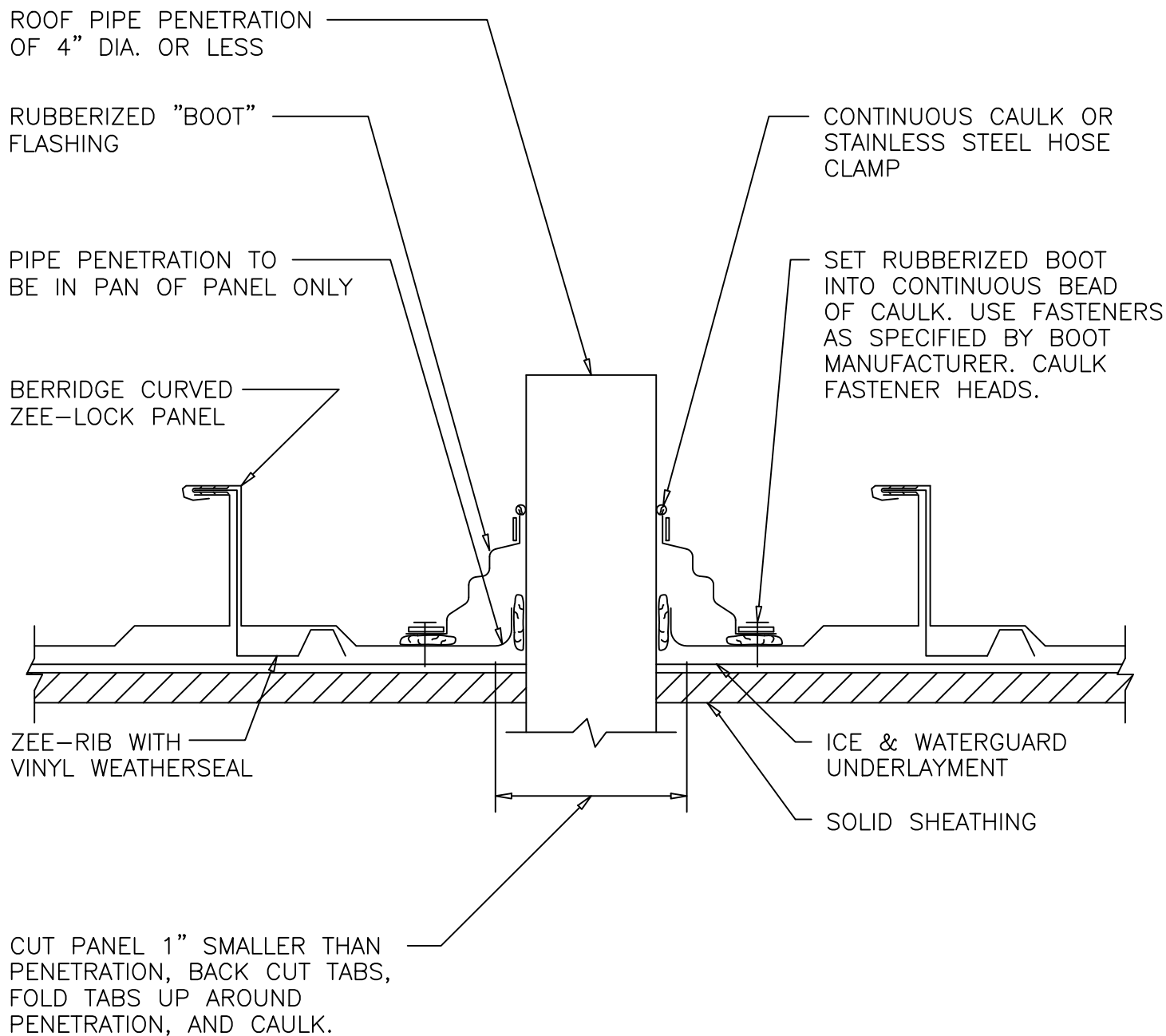


TOP OF VALLEY
AT DORMER
CURVED ZEE-LOCK PANEL

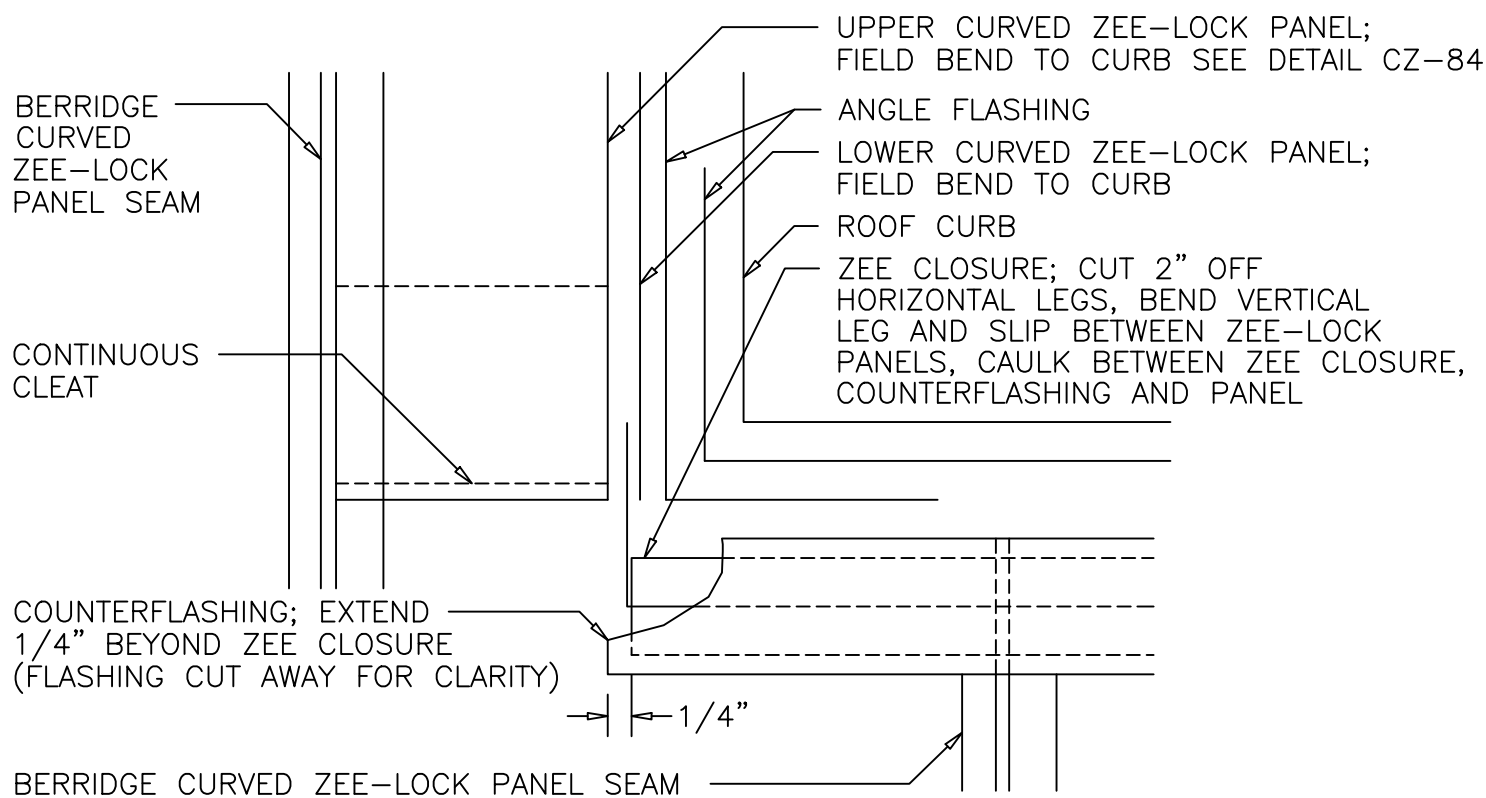
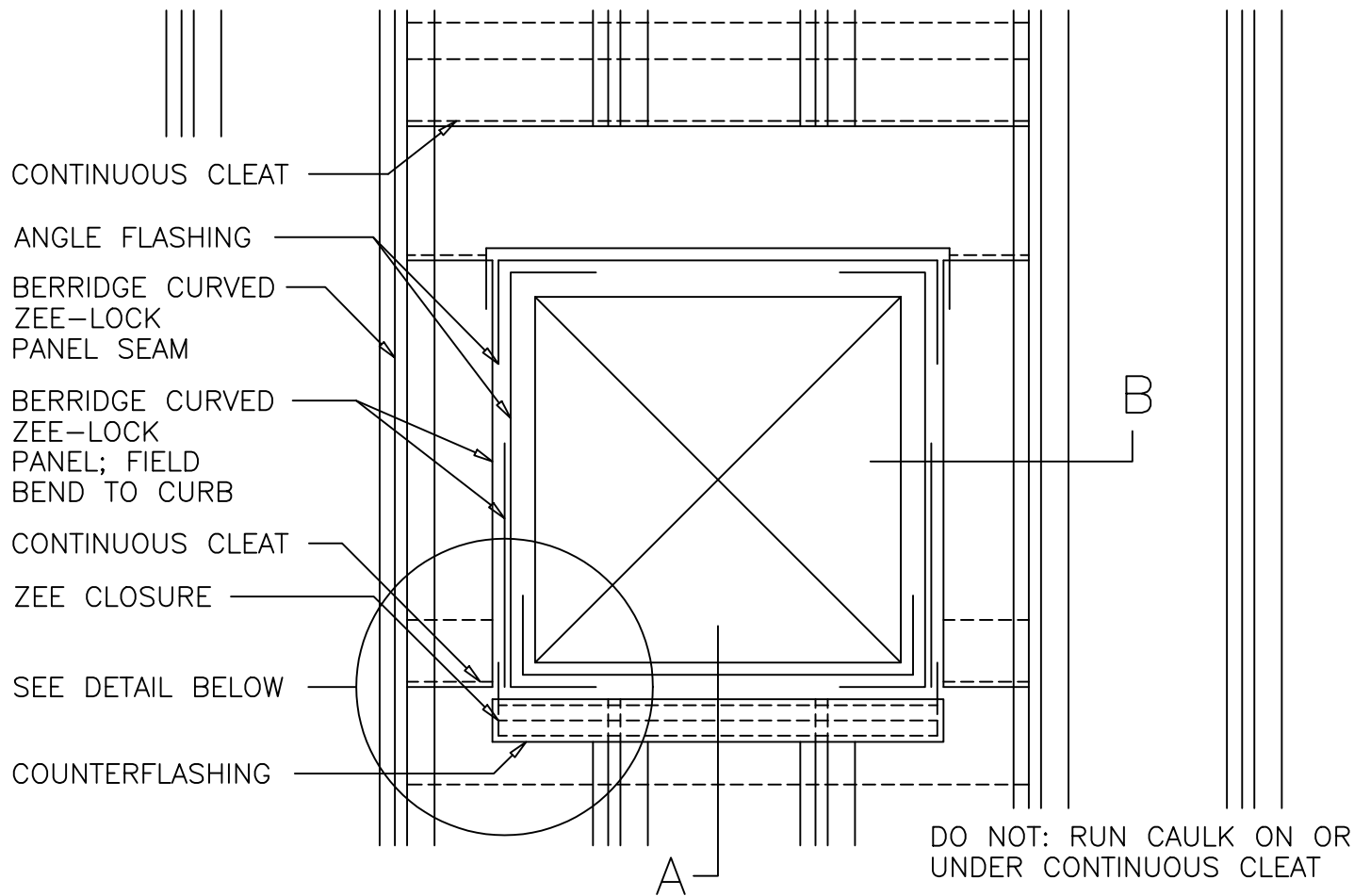
DATE: 2/19/03

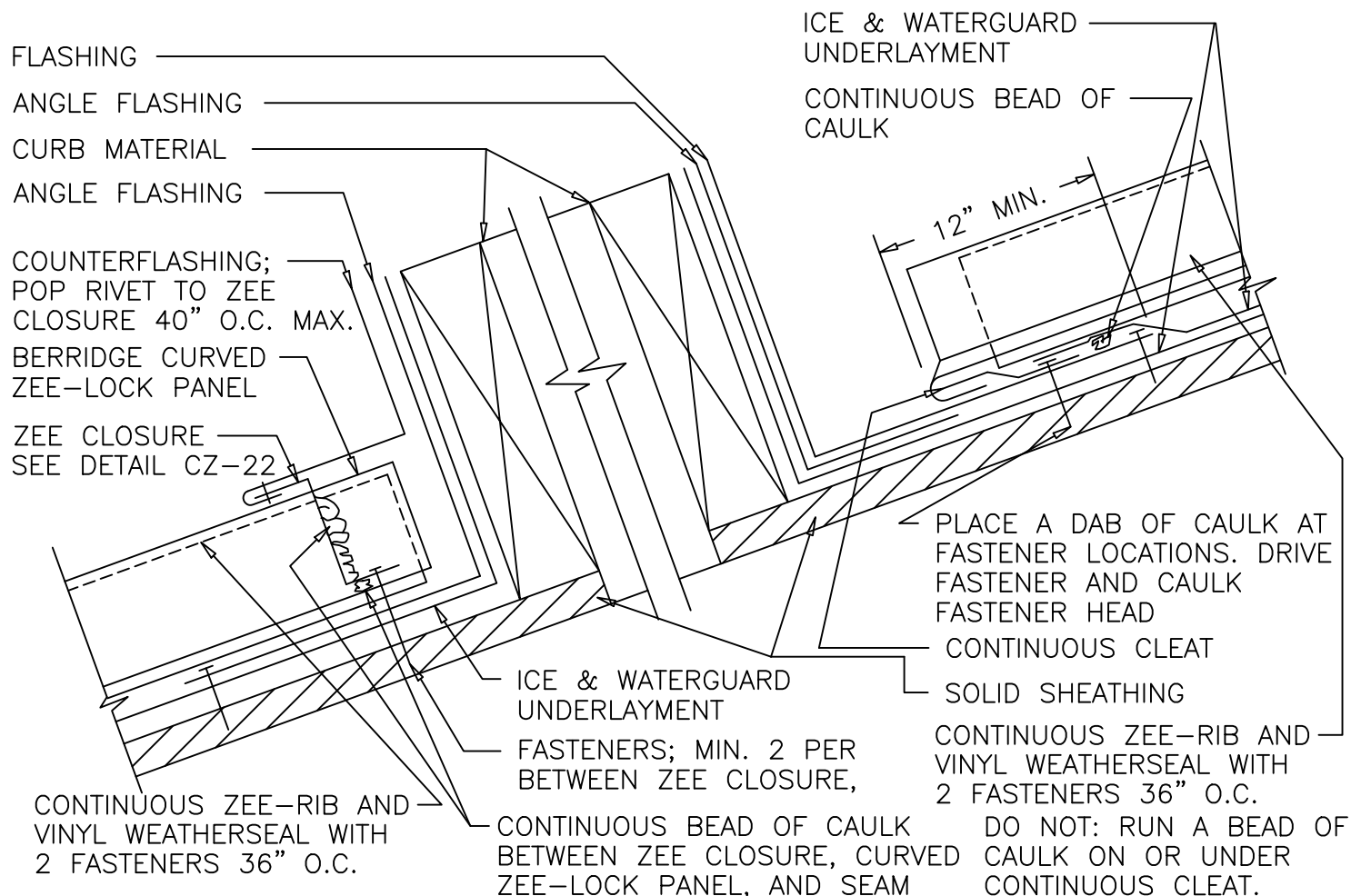
PAGE\FILE

CZ-74

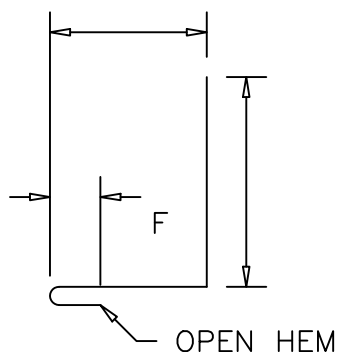


1. CUT HOLE TO ALLOW FOR THERMAL MOVEMENT IF PANELS ARE 30'-0" OR LONGER.
2. IF PIPE IS MADE OF METAL, IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS.
3. POSITION SQUARE BASED BOOTS IN A DIAMOND ORIENTATION WHERE POSSIBLE TO AID IN DIVERTING WATER.

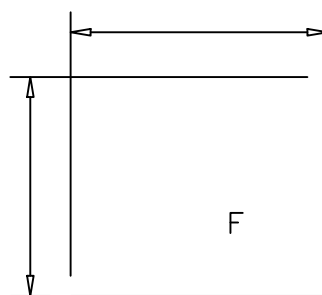




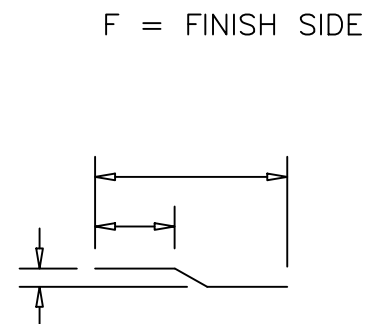
1. SOLID SHEATHING IS REQUIRED AT THIS CONDITION WHEN THE ZEE-LOCK PANEL IS USED OVER OPEN FRAMING (SEE DETAIL CZ-85).
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS. (24 GA. METAL CORRUGATED SHEATHING MAY BE USED IN LIEU OF PLYWOOD).
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



COUNTERFLASHING



ANGLE FLASHING



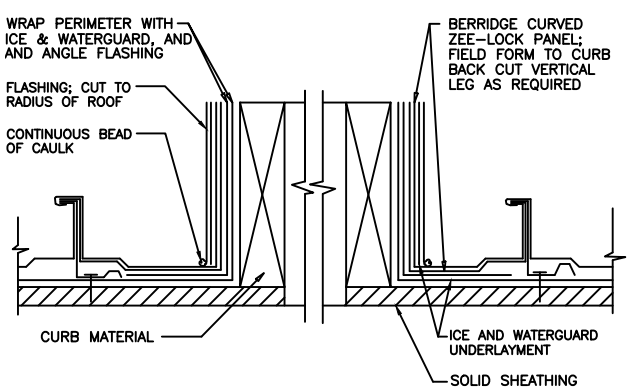
CONTINUOUS CLEAT

SQUARE PENETRATION
SECTION A
OPEN FRAMING AND SOLID SUBSTRATE
CURVED ZEE-LOCK PANEL

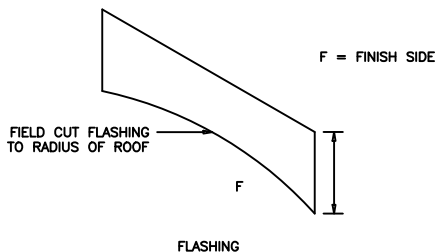
DATE: 2/19/03

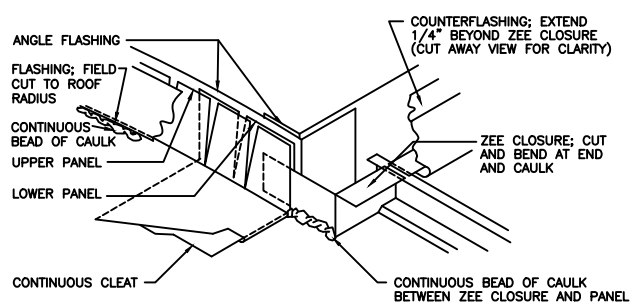
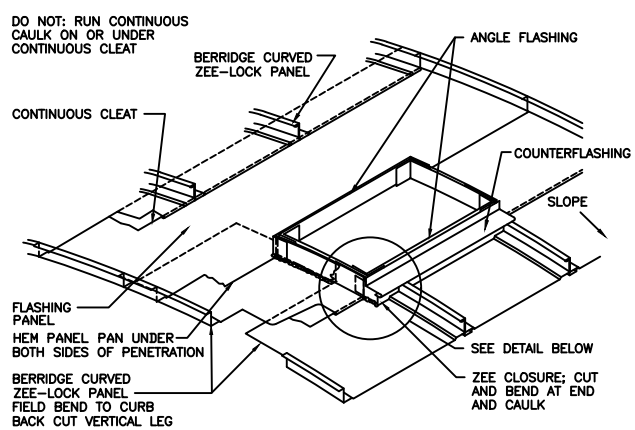
PAGE\FILE

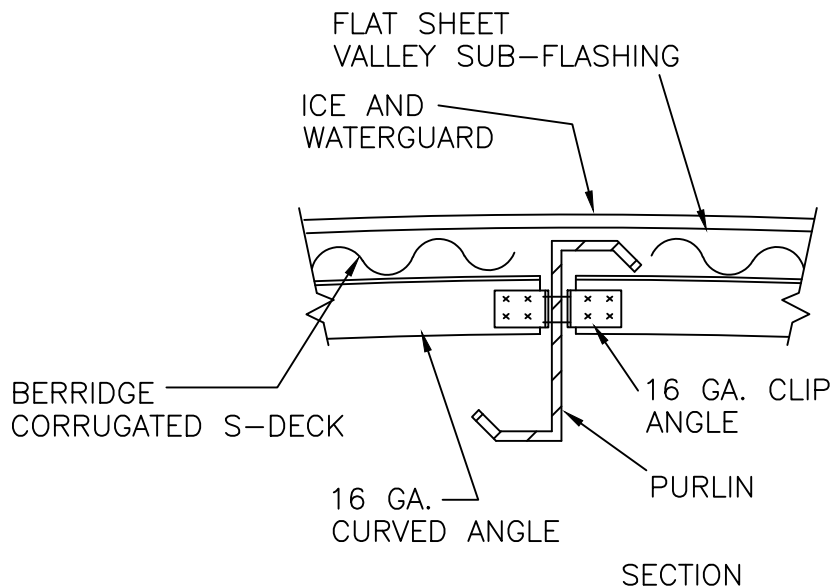
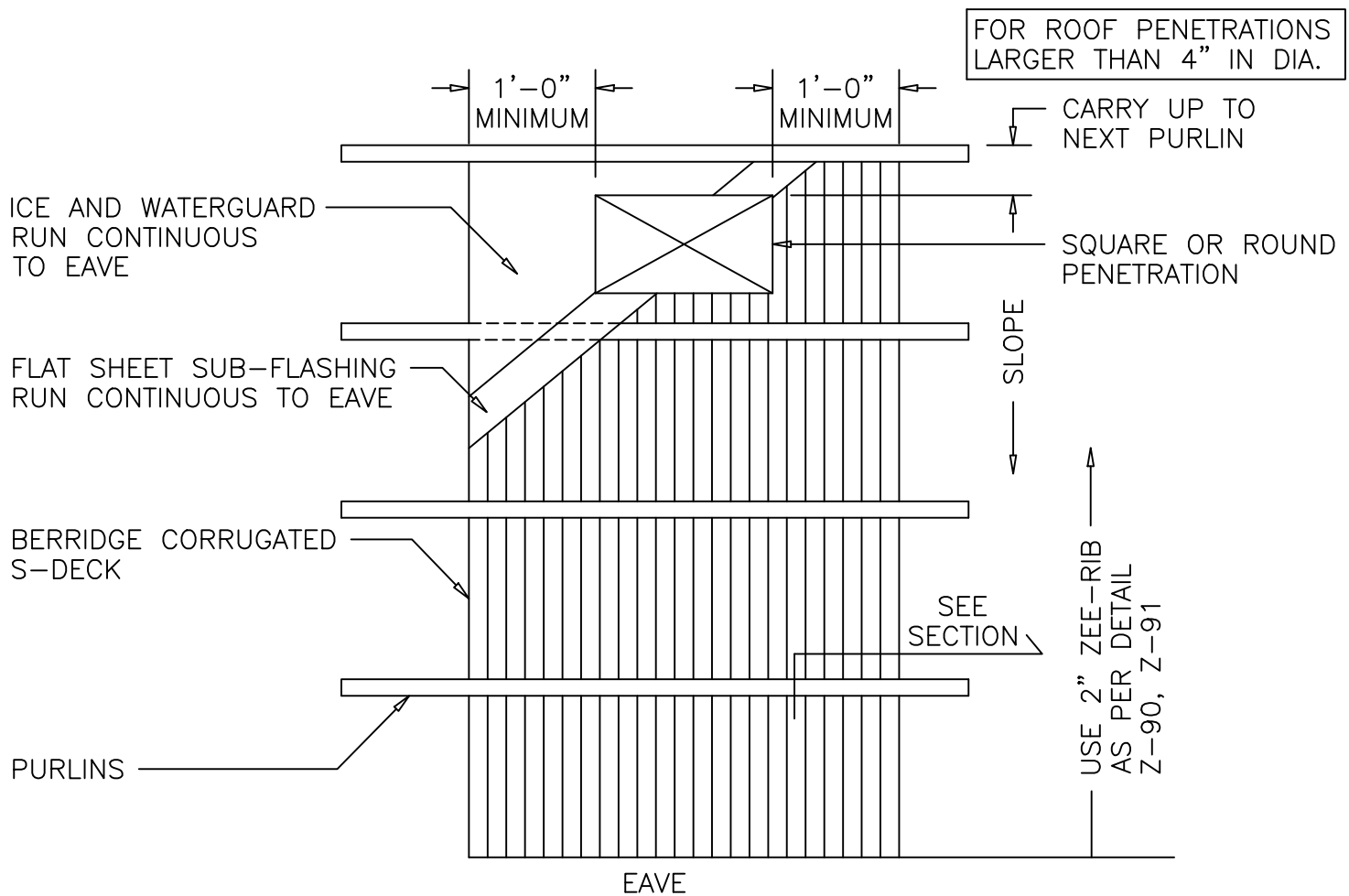
CZ-82



1. SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
2. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.





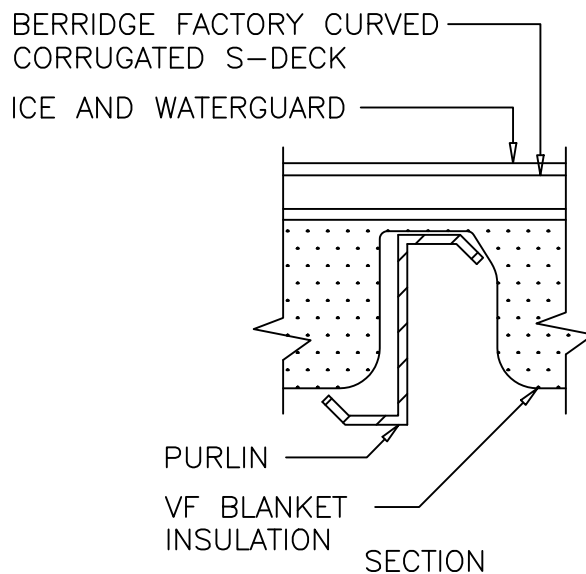
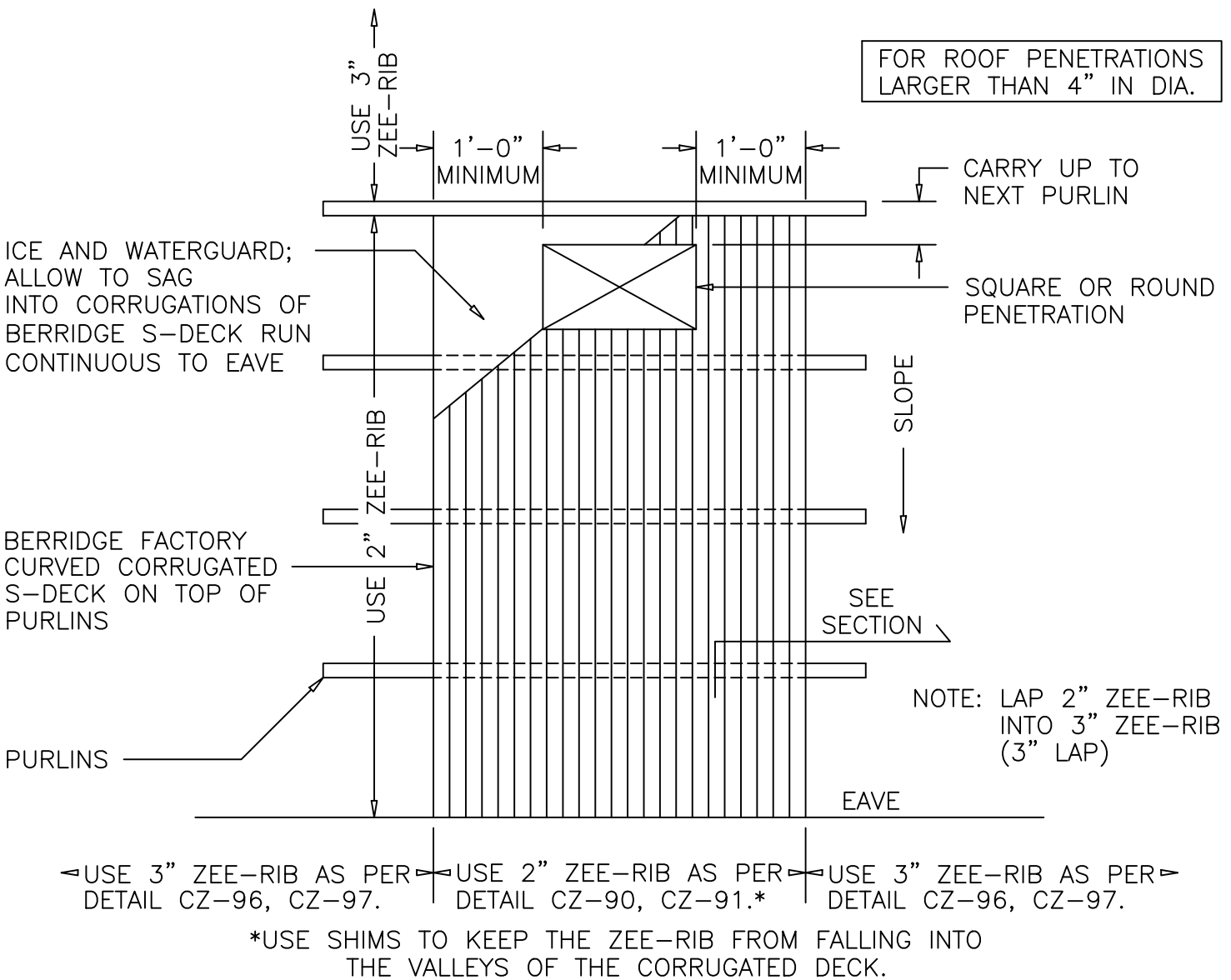


DATE: 2/19/03

PAGE\FILE

PENETRATION
LARGER THAN 4";
OPEN FRAMING

CZ-85 CURVED ZEE-LOCK PANEL

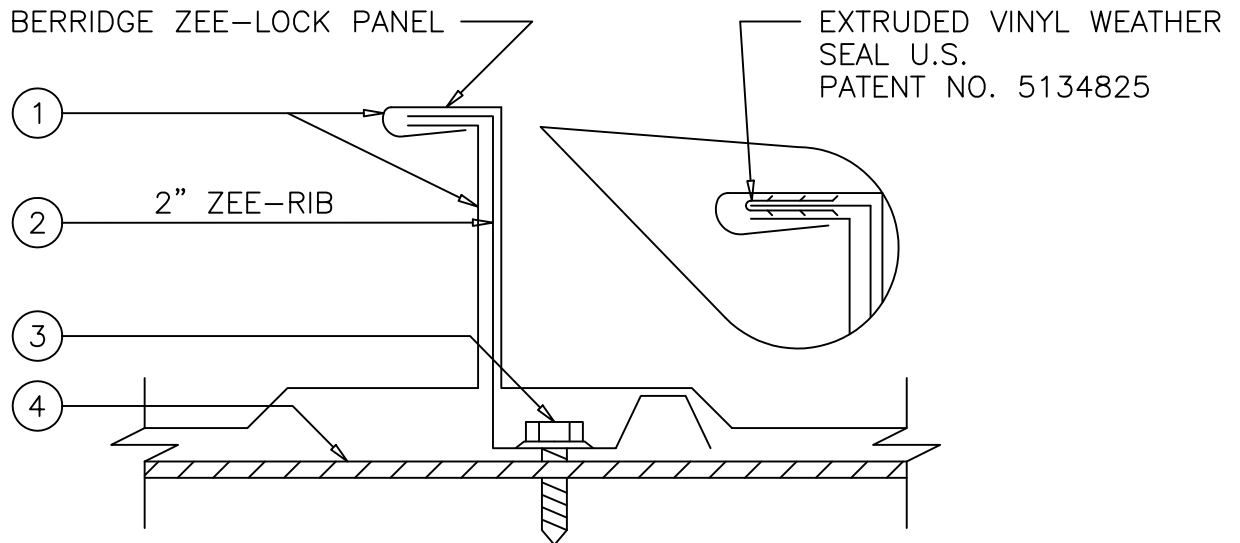


PENETRATION
LARGER THAN 4"; 3" ZEE-RIB WITH THERMAL
BLOCKS AND VINYL FACED INSULATION

DATE: 2/19/03

PAGE\FILE

CURVED ZEE-LOCK PANEL CZ-86



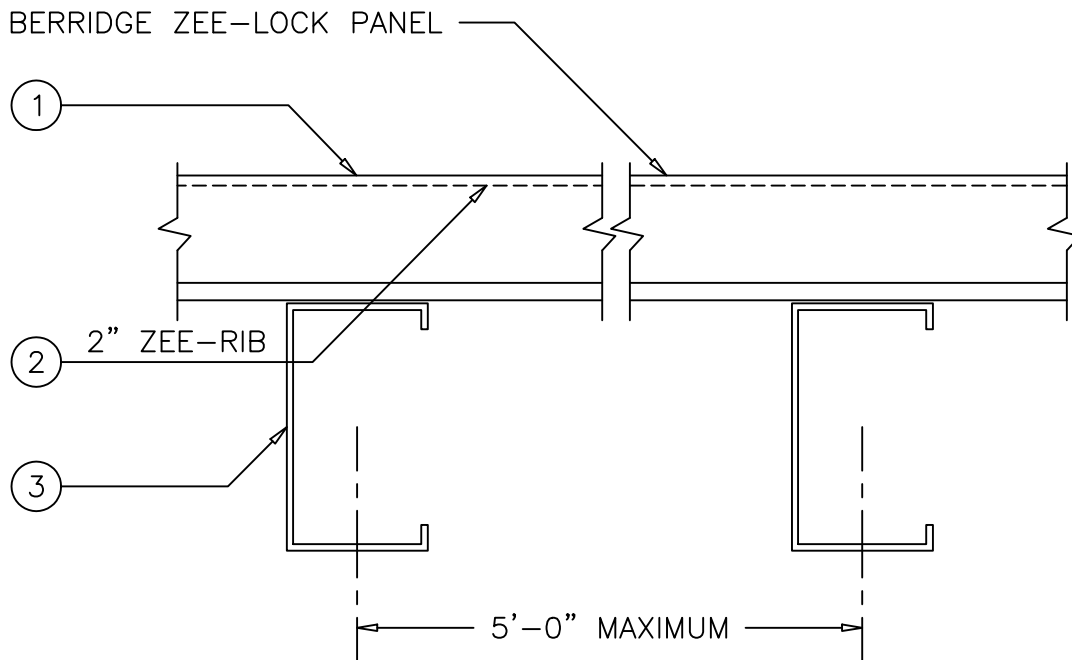
1. METAL ROOF DECK PANELS * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL. 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS TO INCLUDE "ROOF DECK FASTENERS" (ITEM 2) USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"
 2. ROOF DECK FASTENERS * – (PANEL CLIPS) – ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. CLIP LOCATED AT EACH PANEL SIDE LAP WITH CLIP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM 1)
BERRIDGE MANUFACTURING CO. – "ZEE-CLIP RIB" (2" ZEE-RIB)
 3. FASTENERS (SCREWS) – FOR ATTACHING "ZEE-CLIP RIB" (ITEM 2) TO PURLINS. USE NO. 12 x 1 IN. SELF-DRILLING, SELF-TAPPING STEEL SCREWS. TWO FASTENERS AT EACH PURLIN LOCATION.
 4. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING. BERRIDGE MANUFACTURING "CEE" OR "ZEE" PURLINS.
 5. LATERAL BRACING – (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY) FOR ITEMS NOT EVALUATED.
- * BEARING THE UL CLASSIFICATION MARKING.

UL 90 APPROVED ASSEMBLY
SEAM SECTIONS AND FASTENER SPECS
CONSTRUCTION NO. 312

DATE: 2/19/03

PAGE\FILE

CURVED ZEE-LOCK PANEL CZ-90



1. METAL ROOF DECK PANELS * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL, 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS TO INCLUDE "ROOF DECK FASTENERS" (ITEM 2) USING AN ELECTRIC SEAMING TOOL.

BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"

2. ROOF DECK FASTENERS * – (PANEL CLIPS) – ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. CLIP LOCATED AT EACH PANEL SIDE LAP WITH CLIP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM 1)

BERRIDGE MANUFACTURING CO. – "ZEE-CLIP RIB" (2" ZEE-RIB)

3. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING. BERRIDGE MANUFACTURING "CEE" OR "ZEE" PURLINS.

* BEARING THE UL CLASSIFICATION MARKING.

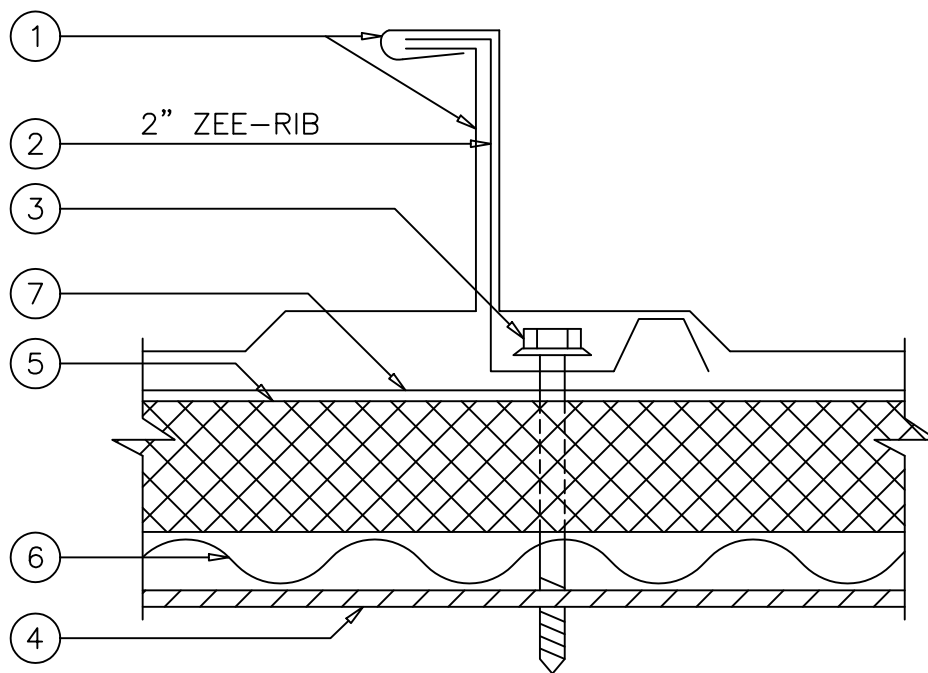
UL 90 APPROVED ASSEMBLY
PURLING SPACING
CONSTRUCTION NO. 312

DATE: 2/19/03

PAGE\FILE

CZ-91

CURVED ZEE-LOCK PANEL



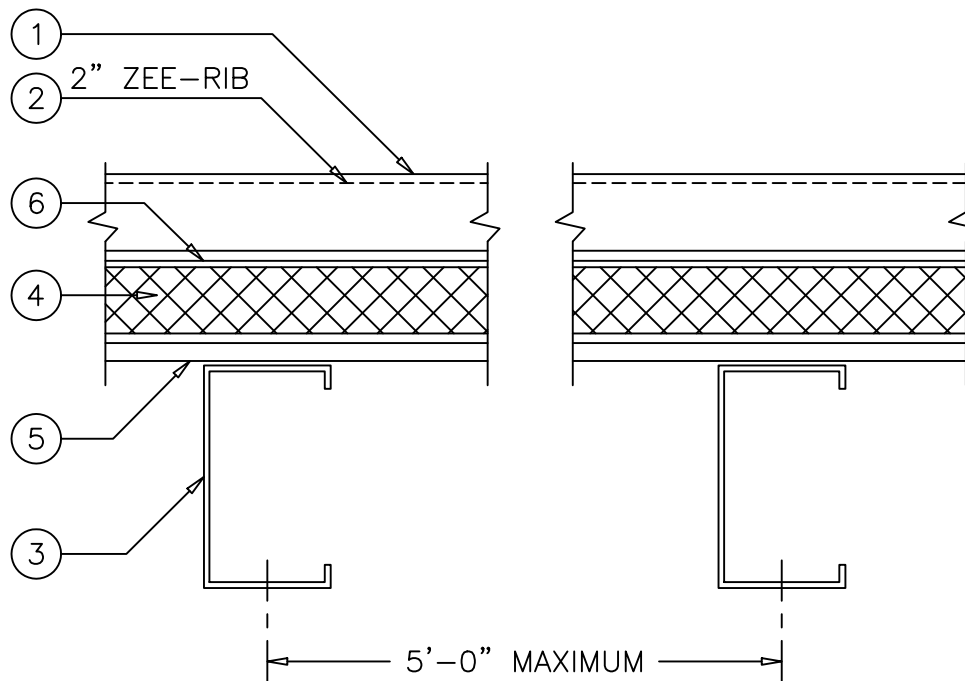
1. BERRIDGE ZEE-LOCK PANEL * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"
 2. BERRIDGE ZEE-RIB (CONTINUOUS) * – ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) ZEE-RIB LOCATED AT EACH PANEL SIDE LAP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM 1) (2" ZEE-RIB)
 3. FASTENERS (SCREWS) –
A. FOR ATTACHING "ZEE-RIB" (ITEM 2) TO PURLINS. USE NO. 12 SELF-DRILLING, SELF-TAPPING STEEL SCREWS. ONE FASTENER AT EACH PURLIN LOCATION.
B. ALTERNATE IF ATTACHING TO DECK ONLY USE ONE NO. 12 @ 24" O.C.
 4. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING. BERRIDGE MANUFACTURING "CEE" OR "ZEE" PURLINS.
 5. INSULATION – 4" RIGID INSULATION BOARD.
 6. BERRIDGE S-DECK METAL STRUCTURAL SHEATHING – NO. 24 MSG STEEL (MIN. YIELD STRENGTH 40,000 PSI), CORRUGATED DECK.
 7. ICE AND WATERGUARD.
 8. LATERAL BRACING – (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.
- * BEARING THE UL CLASSIFICATION MARKING.

UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
INSULATION BOARD OVER BERRIDGE 24 GA. CORRUGATED
S-DECK, AND 16 GA. PURLINS @ 5'-0" O.C. MAX.
UL CONSTRUCTION NUMBER 335

DATE: 2/19/03

PAGE\FILE

CURVED ZEE-LOCK PANEL CZ-92



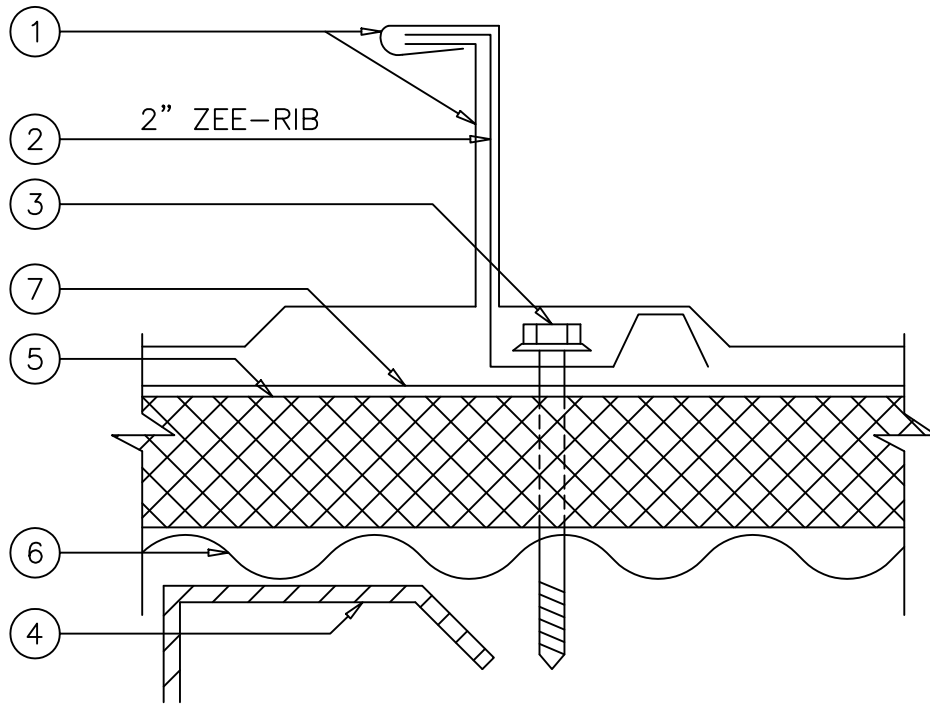
1. BERRIDGE ZEE-LOCK PANEL * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"
2. BERRIDGE ZEE-RIB (CONTINUOUS) * – ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) ZEE-RIB LOCATED AT EACH PANEL SIDE LAP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS". (ITEM 1) (2" ZEE-RIB)
3. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING.
4. INSULATION – 4" RIGID INSULATION BOARD.
5. BERRIDGE S-DECK METAL STRUCTURAL SHEATHING – NO. 24 MSG STEEL (MIN. YIELD STRENGTH 40,000 PSI), CORRUGATED DECK.
6. ICE AND WATERGUARD.
7. LATERAL BRACING – (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.

DATE: 2/19/03
 UL 90 APPROVED ASSEMBLY
 ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
 INSULATION BOARD OVER BERRIDGE 24 GA. CORRUGATED
 S-DECK, AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
 UL CONSTRUCTION NUMBER 335

PAGE\FILE

CZ-93 CURVED ZEE-LOCK PANEL



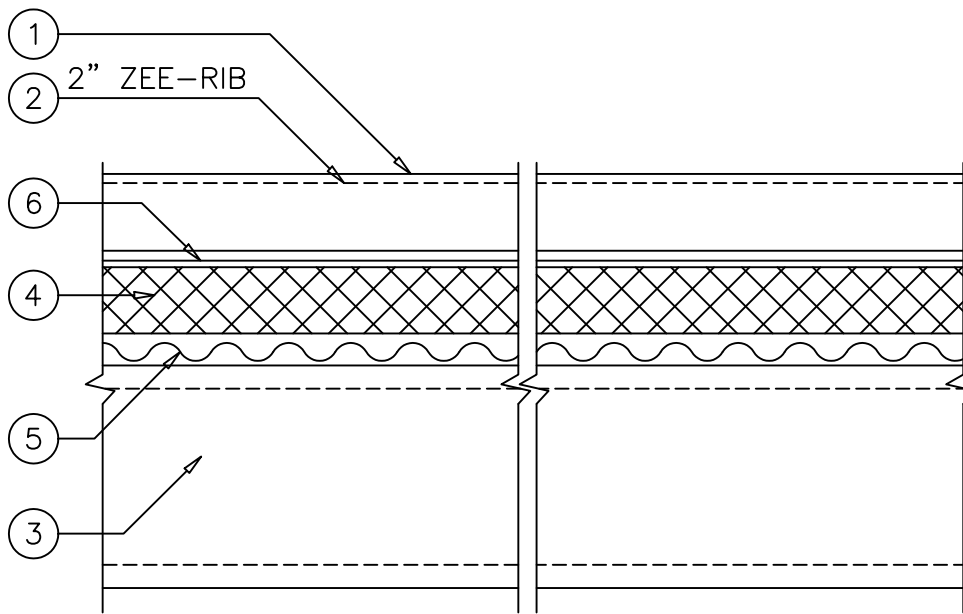
1. BERRIDGE ZEE-LOCK PANEL * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"
 2. BERRIDGE ZEE-RIB (CONTINUOUS) * – ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) ZEE-RIB LOCATED AT EACH PANEL SIDE LAP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM 1) (2" ZEE-RIB)
 3. FASTENERS (SCREWS) – FOR ATTACHING "ZEE-RIB" (ITEM 2) TO S-DECK (ITEM 6). USE NO. 12 SELF-DRILLING, SELF-TAPPING STEEL SCREWS. ONE FASTENER AT 24" O.C.
 4. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING. BERRIDGE MANUFACTURING "CEE" OR "ZEE" PURLINS.
 5. INSULATION – 4" RIGID INSULATION BOARD.
 6. BERRIDGE S-DECK METAL STRUCTURAL SHEATHING – NO. 24 MSG STEEL (MIN. YIELD STRENGTH 40,000 PSI), CORRUGATED DECK.
 7. ICE AND WATERGUARD.
 8. LATERAL BRACING – (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.
- * BEARING THE UL CLASSIFICATION MARKING.

UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
INSULATION BOARD OVER BERRIDGE 22 GA. CORRUGATED
S-DECK, AND 16 GA. PURLINS @ 5'-0" O.C. MAX.
MODIFICATION OF UL CONSTRUCTION NUMBER 335

DATE: 2/19/03

PAGE\FILE

CURVED ZEE-LOCK PANEL CZ-94



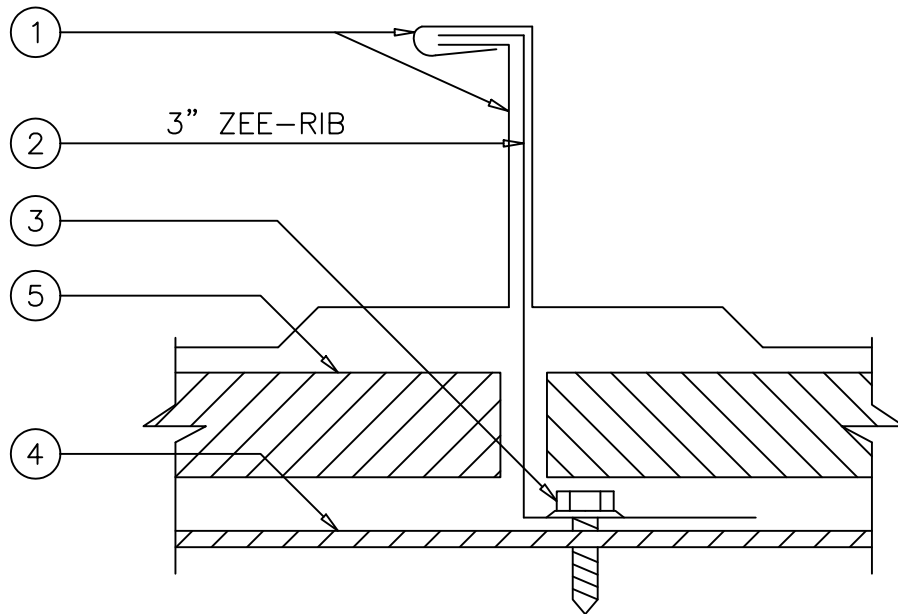
1. BERRIDGE ZEE-LOCK PANEL * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"
2. BERRIDGE ZEE-RIB (CONTINUOUS) * – ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) ZEE-RIB LOCATED AT EACH PANEL SIDE LAP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS". (ITEM 1) (2" ZEE-RIB)
3. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING. BERRIDGE MANUFACTURING "CEE" OR "ZEE" PURLINS.
4. INSULATION – 4" RIGID INSULATION BOARD.
5. BERRIDGE S-DECK METAL STRUCTURAL SHEATHING – NO. 24 MSG STEEL (MIN. YIELD STRENGTH 40,000 PSI), CORRUGATED DECK.
6. ICE AND WATERGUARD.
7. LATERAL BRACING – (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.

DATE: 2/19/03
 ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
 INSULATION BOARD OVER BERRIDGE 22 GA. CORRUGATED
 S-DECK, AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
 MODIFICATION OF UL CONSTRUCTION NUMBER 335

PAGE\FILE

CZ-95 CURVED ZEE-LOCK PANEL



1. BERRIDGE ZEE-LOCK PANEL * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"
 2. BERRIDGE ZEE-RIB (CONTINUOUS) * – ONE PIECE ASSEMBLY FABRICATED FROM 24 MSG COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) ZEE-RIB LOCATED AT EACH PANEL SIDE LAP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM 1) (3" ZEE-RIB)
 3. FASTENERS (SCREWS) – FOR ATTACHING "ZEE-RIB" (ITEM 2) TO PURLINS. USE NO. 12 x 1 IN. SELF-DRILLING, SELF-TAPPING STEEL SCREWS. TWO FASTENERS AT EACH PURLIN LOCATION.
 4. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING. BERRIDGE MANUFACTURING "CEE" OR "ZEE" PURLINS.
 5. THERMAL BLOCK – 3" BY 16" BY 1" EXTRUDED POLYSTYRENE. (OPTIONAL)
 6. INSULATION – (NOT SHOWN) 6 IN. VINYL FACED COMPRESSIBLE INSULATION. REFER TO DETAIL Z-93.
 7. LATERAL BRACING – (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.
- * BEARING THE UL CLASSIFICATION MARKING.

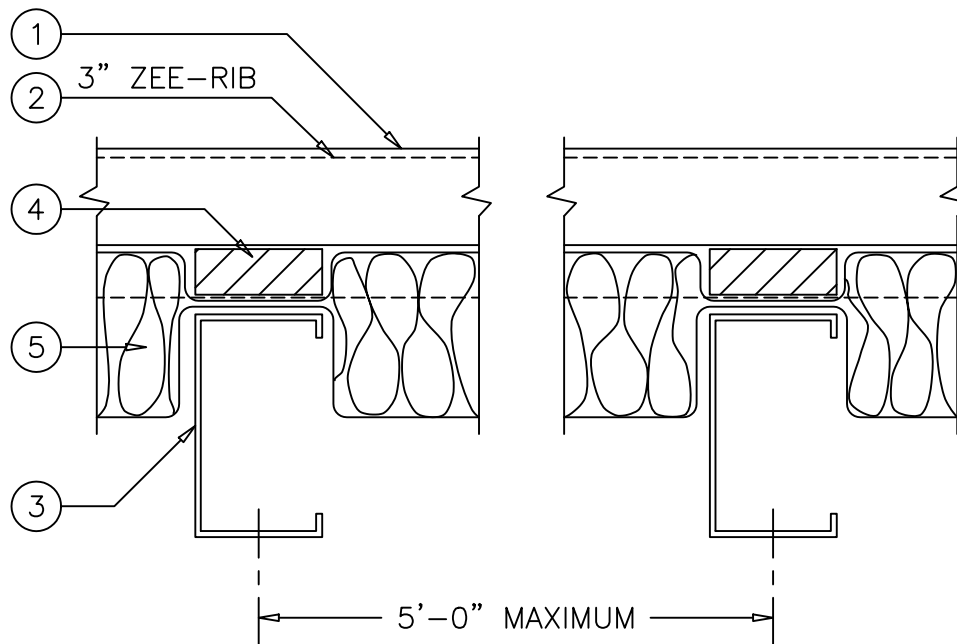
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB
AND BLANKET INSULATION AND 1" THERMAL
BLOCK AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
UL CONSTRUCTION NO. 312

DATE: 2/19/03

PAGE\FILE

CURVED ZEE-LOCK PANEL

CZ-96



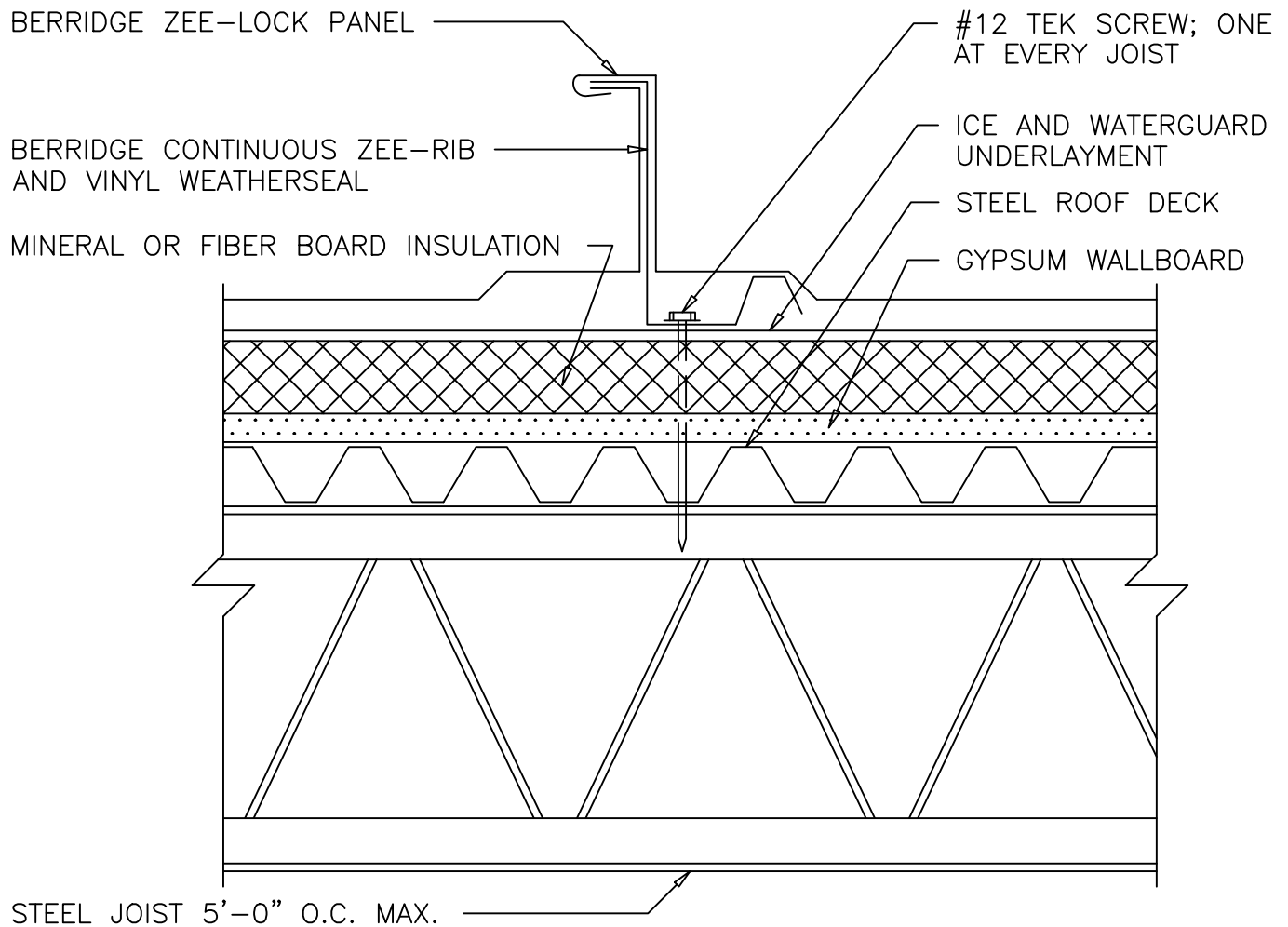
1. BERRIDGE ZEE-LOCK PANEL * – NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) IS USED AT PANEL SIDE LAPS. ADJACENT PANELS ARE SEAMED TOGETHER ALONG SIDE LAPS USING AN ELECTRIC SEAMING TOOL.
BERRIDGE MANUFACTURING CO. – "ZEE-LOCK PANEL"
 2. BERRIDGE ZEE-RIB (CONTINUOUS) * – ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) ZEE-RIB LOCATED AT EACH PANEL SIDE LAP BEING CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM 1) (3" ZEE-RIB)
 3. PURLINS – NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 5'-0" MAXIMUM SPACING.
 4. THERMAL BLOCK – 3" BY 16" BY 1" EXTRUDED POLYSTYRENE. (OPTIONAL)
 5. INSULATION – 6 IN. VINYL FACED COMPRESSIBLE INSULATION.
 6. LATERAL BRACING – (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.
- * BEARING THE UL CLASSIFICATION MARKING.

DATE: 2/19/03

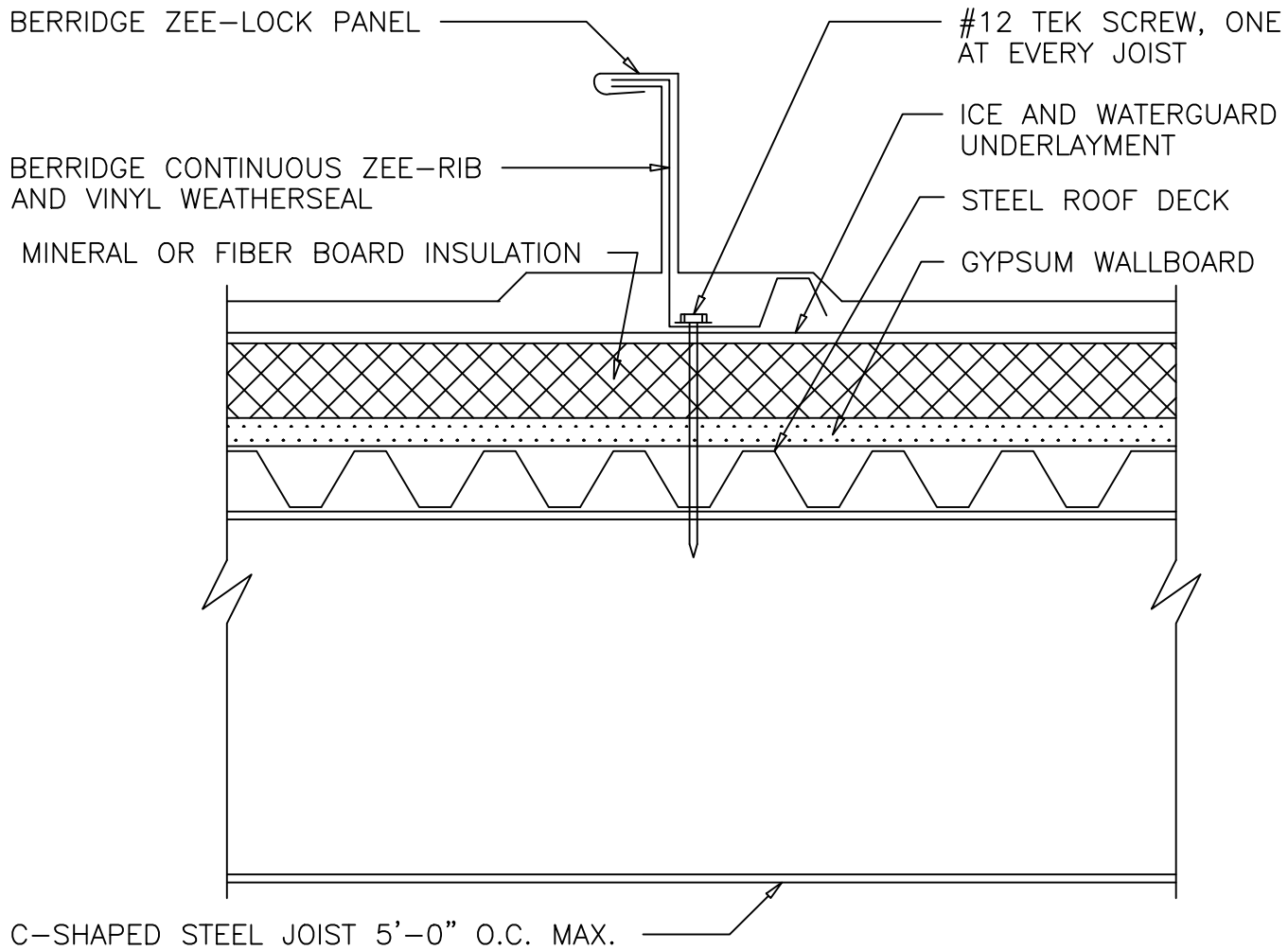
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB
AND 6" BLANKET INSULATION AND 1" THERMAL
BLOCK AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
UL CONSTRUCTION NUMBER 312

PAGE\FILE

CZ-97 CURVED ZEE-LOCK PANEL



1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE ZEE-LOCK PANEL IN ORDER TO MAKE A POSITIVE ATTACHMENT, MUST BE ATTACHED TO THE STEEL DECK. (IF THE INSULATION SYSTEM HAS NO AVAILABLE SURFACE).
2. THIS ASSEMBLY QUALIFIES FOR THE FOLLOWING UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NO. P224, P225, P230, P237, P508, P510, AND P227 USING CELLULAR GLASS BLOCK IN LIEU OF MINERAL INSULATION BOARD.
3. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.



1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE ZEE-LOCK PANEL IN ORDER TO MAKE A POSITIVE ATTACHMENT, MUST BE ATTACHED TO THE STEEL DECK. (IF THE INSULATION SYSTEM HAS NO AVAILABLE SURFACE).
2. THIS ASSEMBLY QUALIFIES FOR THE FOLLOWING UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NO. P512.
3. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.