CEE-LOCK PANEL
INSTALLATION DETAILS
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UL 90 APPROVED ASSEMBLY CEE-LOCK PANEL WITH CONTINUOUS CEE-RIB AND 4" RIGID INSULATION BOARD OVER TYPE "F" 22 GA. CORRUGATED LINER AND 16 GA. PURLINS SPACED @ 4'-0" O.C. CONSTRUCTION NO. 381

UL 90 APPROVED ASSEMBLY CONSTRUCTION NO. 404
UL 90 APPROVED ASSEMBLY CONSTRUCTION NO. 404
A. BERRIDGE CEE-LOCK PANEL: IS AVAILABLE WITH A FIXED PAN WIDTH OF 16 1/2” WITH
A SEAM HEIGHT OF 1 1/2”. CEE-LOCK IS FACTORY FABRICATED AND/OR FIELD
FABRICATED USING THE BERRIDGE CL-21 PORTABLE ROLL FORMER.

WHEN SPECIFYING COIL FOR FIELD-FORMED PANELS, ORDER 20 7/8” WIDE COIL TO
FORM THE 16 1/2” COVERAGE PANEL WITH 1 1/2” HIGH LEG. PLEASE CONTACT
BERRIDGE MANUFACTURING COMPANY FOR FURTHER INFORMATION REGARDING THE
BERRIDGE CL-21 PORTABLE ROLL FORMER.

B. MINIMUM SLOPE: THE CEE-LOCK PANEL IS RECOMMENDED FOR ROOF SLOPES OF 1 ON
12 AND GREATER. IN HEAVY SNOW AREAS OR WHERE NUMEROUS FREEZE-THAW CYCLES
ARE PREVALENT THROUGHOUT THE WINTER, A MINIMUM ROOF SLOPE OF 2 ON 12 IS
RECOMMENDED. BERRIDGE MANUFACTURING COMPANY RECOMMENDS THE USE OF THE
VINYL WEATHERSEAL (US PATENT NO. 4,641,475) FOR ALL OPEN FRAME APPLICATIONS.
A DOUBLE LAYER OF NUMBER THIRTY FELT UNDERLAMINATION OR EQUAL AND THE
CEE-LOCK OPTIONAL VINYL WEATHERSEAL (US PATENT NO. 4,641,475) ARE
RECOMMENDED FOR ALL APPLICATIONS WHERE THE ROOF SLOPE IS 3 ON 12 OR LESS.

C. MATERIAL STORAGE: CAUTION MUST BE EXERCISED IN STORAGE OF MATERIALS 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
PROVIDES PROTECTION OF THE FINISH DURING FABRICATION AND TRANSIT. THIS FILM
MUST BE REMOVED PRIOR TO INSTALLATION.

E. SOLID SHEATHING REQUIREMENTS: BERRIDGE MANUFACTURING COMPANY RECOMMENDS
THE USE OF EITHER BERRIDGE 24 GA. CORRUGATED SHEATHING (NOMINAL 2 1/2” PITCH
X 11/16” DEPTH) OR A MINIMUM OF 1/2” PLYWOOD SHEATHING TO PROVIDE SUFFICIENT
HOLDING POWER FOR FASTENERS. CONTACT BERRIDGE MANUFACTURING’S ENGINEERING
DEPARTMENT FOR USE OF ANY OTHER TYPE OF SOLID SHEATHING. (# 30 FELT
UNDERLAMINATION OR EQUAL MUST BE USED OVER ANY SOLID SHEATHING).

DUE TO #30 FELTS TENDENCY TO TEAR WHEN USED OVER CORRUGATED DECKING,
BERRIDGE MANUFACTURING RECOMMENDS GRACE ICE AND WATERSHIELD OR EQUAL TO
BE USED AS AN UNDERLAMINATION FOR ALL CORRUGATED DECKS.

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 JOISTS 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 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. Installation over open framing:
Consult Berridge Manufacturing’s engineering department.

H. 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.

I. Felt underlayment: A minimum single layer of #30 felt underlayment (or equal) must be applied over solid sheathing as shown in the Berridge manufacturing company typical felting details. The use of additional layers of #30 felt is recommended on low-sloped roofs, at all valley conditions, at roof penetrations, and certain other flashing conditions as depicted in the CEE-Lock panel typical details. (The underlayment must cover the entire roof decked surface). Grace Ice and Water Shield may be required on low sloped roofs or at certain flashing conditions. Verify correct method of installing Ice and Watershed with Watershed Manufacture.

J. Felting installation:
1. Do not use red rosin paper under metal roofing panels.
2. Sweep roof area clean.
3. Use flat head galvanized roofing nails x 1 1/4” long with Berridge galvanized felt caps.
4. INSTALL VALLEY FELT FIRST.

5. INSTALL FELT PARALLEL TO EAVE (2 LAYERS REQUIRED AT EAVE), STARTING AT EAVE AND USING MINIMUM 6" LAPS. USE TWO LAYERS OF FELT ON ENTIRE ROOF DECK IF ROOF SLOPE IS 3 ON 12 OR LESS. 2 LAYERS OF FELT REQUIRED AT EAVE REGARDLESS OF SLOPE.

6. REFER TO BERRIDGE UNDERLAYMENT DETAILS.

7. INSULATE BETWEEN WOOD BLOCKING AND METAL WITH FELT OR ICE AND WATERSHIELD.

K. THERMAL MOVEMENT: EXPANSION AND CONTRACTION OF METAL PANELS WHICH EXCEED THIRTY FEET IN LENGTH CAN BE A FACTOR IN THE DESIGN AND INSTALLATION OF FLASHINGS. PLEASE REFER TO THE CHART ON PAGE CI-7 TO DETERMINE ANTICIPATED THERMAL MOVEMENT OF THE PANELS. IMPROPERLY DESIGNED FLASHING CAN ALLOW PANELS TO DISENGAGE FROM THE FLASHINGS, ALLOW "OIL-CANNING" IN THE PANEL AND/OR CAUSE FLASHING TO WORK LOOSE FROM ITS ANCHORAGE. REFER TO PAGE C-5 FOR THERMAL EXPANSION CLIP DETAILS.

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

M. 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.

N. 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 ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.
4. ALL FLASHINGS ARE TO BE DESIGNED AND INSTALLED TO NOT TRAP WATER.

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.

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 J-CLIP AND/OR DRAIN FLASHING AT GABLE THEN PLACING FIRST CEE-LOCK CONTINUOUS LENGTH PANEL.
4. INSTALL CEE-LOCK CLIPS OR CONTINUOUS CEE-LOCK AS PER BERRIDGE TYPICAL DETAILS AND CEE-LOCK CONTINUOUS RIB/CLIP 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 PORTABLE ROLL FORMER.

6. INSTALL PANELS BY PLACING THE FEMALE LEG OVER THE MALE LEG AND CONTINUOUS CEE-LOCK OR CLIP AND SNAPING THE INTEGRAL SEAM INTO PLACE UNDER HAND PRESSURE. (ALTERNATIVE METHOD TO SNAP SEAMS TOGETHER IS TO PLACE A 2x4 PIECE OF LUMBER OVER THE CEE-LOCK PANEL SEAM AND STRIKE IT WITH MALLET TO LOCK THE PANEL TOGETHER) DO NOT USE EXCESSIVE FORCE OR FOOT PRESSURE TO 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 THE SAME TIME WHERE SEAM LINES MUST MATCH. INSTALL TEN OR TWELVE PANELS IN ONE ELEVATION AND THEN FOLLOW WITH A LIKE NUMBER OF PANELS IN THE OTHER ELEVATION. WHEN YOU INSTALL PANELS IN THIS MANNER, YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO INSURE SEAM MATCHING.

9. COPPER-COTE® CHAMPAGNE, LEAD-COTE® AND PREWEATHER GALVALUME® 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 OF THE PIGMENTS IN THE FINISH. METALLIC FINISHES ARE MATCH - LOT FINISHES. DO NOT MIX LOTS.

Q. CEE-LOCK CLIP INSTALLATION:
1. INSTALL CLIPS AT PER BERRIDGE TYPICAL CEE-LOCK PANEL DETAILS.
2. CLIP SPACING ON SOLID SHEATHING TYPICALLY 36” ON CENTER.*

R. CONTINUOUS CEE-RIB:
1. INSTALL CEE-RIB AS PER BERRIDGE TYPICAL CEE-LOCK PANEL DETAILS.
2. THE CEE-RIB IS TO RUN CONTINUOUS ALONG THE ENTIRE LENGTH OF THE PANELS. IF PANEL LENGTH IS OVER 30'-0” LONG OR EXPANSION AND CONTRACTION OF PANELS IS A DESIGN FACTOR, REFER TO DETAIL CL-4.

S. FASTENERS: INSTALL FASTENERS AS PER TYPICAL DETAILS. USE #10 HEX HEAD ZINC PLATED FASTENERS WHEN FASTENING TO WOOD. OR METAL**
WHEN USING POP RIVETS ON FLASHING, STAINLESS STEEL RIVETS ARE RECOMMENDED TO AVOID RUST STAINS.
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 RECEDED BELOW THE ELEVATION OF THE SUBSTRATE.

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

**CONSULT BERRIDGE MANUFACTURING’S ENGINEERING DEPARTMENT REGARDING FASTENER SPACING TO MEET DESIGN CRITERIA, AND THE USE OF ANY OTHER TYPE OF FASTENER.
T. UNDERWRITERS LABORATORIES RATINGS: THE BERRIDGE CEE-LOCK STANDING SEAM
ROOF PANEL COMPLIES WITH THE FOLLOWING UL RATINGS:

1. NO. 580 "TEST FOR WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES" CLASS UL 90
CONSTRUCTION NUMBERS 381, AND 404. (REFER TO BERRIDGE TYPICAL
DETAILS CL-93 THROUGH CL-96)

2. UL FIRE RESISTANT ROOF ASSEMBLIES: UL DESIGN NUMBERS P-224, 225, 227,
230, 237, 508, 510, 512, 701, 711, 713, 715, 717, 803, 814, 815, 819, AND
821 (REFER TO BERRIDGE TYPICAL DETAILS C-96 THROUGH C-98).

U. SEALANT RECOMMENDATIONS: TREMCO, INC. SPECTREM 1 SILICONE SEALANT.
DO NOT USE CLEAR CAULK.

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. FURTHERMORE,
BERRIDGE UTILIZES HEAVIER 24 GAUGE METAL RATHER THAN 26 GAUGE STEEL OR LIGHT
GAUGE ALUMINUM AS OFFERED BY MANY COMPETITORS. 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 FELT 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 STANDING SEAM
ROOF PANEL SYSTEM.

NOTE: ALL PRODUCT SPECIFICATIONS, DETAILS, AND INSTRUCTIONS SUBJECT TO CHANGE
WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.
Expansion and contraction of metal 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.
TOTAL MOVEMENT ("A") IN INCHES — FOR ALUMINUM PANELS
(1/4" INCREMENTS)

DISTANCE FROM FIXED POINT IN FEET

0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200

N
E
W
S

700°F
1200°F
1600°F

TEMPERATURE CHANGE

MAXIMUM TEMPERATURE SHOULDN'T BE 140°F FOR WHITE PANELS, UP TO 180°F FOR DARK PANELS. REGARDLESS OF AMOUNT, LEFT ALLOWS FOR RADIATION TO NIGHT SKY. A MINIMUM OF 100°F DIFFERENTIAL IS RECOMMENDED.

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 CUTTERS, RIDGES, ENDWALLS, ETC.
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 SHALL BE HELD HARMLESS FROM ANY AND ALL CLAIMS ARISING FROM LACK OF WATERTIGHTNESS AS A RESULT OF FOLLOWING THESE RECOMMENDED DETAILS. ENSURING WATERTIGHTNESS ON ANY GIVEN PROJECT IS THE FUNCTION OF THE INSTALLER. THE ARCHITECT/GENERAL CONTRACTOR/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 Assembly**

- **16 1/2''**
- **Patented Optional Vinyl Weatherseal US Patent No. 4,641,475.**
- Continuous Cee-Rib or Cee-Clip

**Panel Section**

- **1 1/2''**
- **3/4''**
- **1/2''**
- **16 1/2''**
- **1 3/8''**

**Continuous Cee-Rib or Cee-Clip Section**

- **3/4''**
- **1/2''**

**Cee-Lock Panel**

- **Continuous Cee-Rib or Cee-Clip**
- **Cee-Lock Panel**

**Seam Section**

- **1 1/2''**
- **3/4''**
- **1 1/16''**

**Panel Overview**

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**Berridge Manufacturing Company**

Roofs of Distinction
FASTENERS; ATTACH THROUGH SUPPORT CLIPS ONLY

TOP SUPPORT CLIP

BOTTOM SUPPORT CLIP

SET BOTTOM SUPPORT CLIP ON TOP OF SOLID SHEATHING, RIGID INSULATION, OR HIGH RIBS OF METAL DECK

NOT TO SCALE
1. All felt 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 spacing and fastener type will be dependent on governing code and specification requirements.

Zee purlin, minimum 24 gauge steel, depth determined by insulation depth and legs determined by pitch of metal deck.

Butt insulation up to purlin.
5" X 5", 24 GAUGE BEARING PLATE, CENTER BETWEEN RIBS

CEE-RIB (10'-0" LONG)

3/8" MIN. FROM EDGE OF BEARING PLATE

CEE-RIB (10'-0" LONG)

1"

ROOF SLOPE

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

FASTENER; ATTACH THROUGH BEARING PLATE INTO STRUCTURE

1. ONLY FOR USE WITH 10'-0" CEE RIB, SEE ALTERNATE DETAIL CL-4 FOR CEE RIB LONGER THAN 10 FEET.

2. VINYL WEATHERSEAL REQUIRED FOR USE ON PROJECTS REQUIRING A WATERTIGHTNESS WARRANTY.

3. CONSULT BERRIDGE MANUFACTURING FOR FASTENER SPACING. NOT TO SCALE
1. This detail is recommended for areas with heavy snow loads or where expansion and contraction of panels is a design factor.

2. 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 linear expansion chart, page CI-7.

3. Gap between eave flashing and panel must be adjusted to suit temperature during installation.

4. See also expansion joint detail CL-4.

5. Solid sheathing (by others) to be 1/2" plywood or equivalent in strength for holding power of fasteners.

6. All felt underlayment, caulking, and fasteners, are items to be furnished and installed by the roofing installer at the discretion of the architect.
RIDGE/HIP CAP; 4" END LAP WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ZEE CLOSURE 40" O.C.

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

BERRIDGE CEE-LOCK PANEL

CEE-LOCK CLIP; 36" O.C. MAX. OR CONTINUOUS CEE-RIB

ZEE CLOSURE CUT TO FIT BETWEEN SEAMS, USE CL-23 AT RIDGE

FASTENERS; 3 PER ZEE, MIN.

# 30 FELT UNDERLAYMENT
SOLID SHEATHING

1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS AT HIPS AT RIDGE USE DETAIL CL-23.

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

3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

OPEN HEMS

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

CONTINUOUS CEE-rib with 2 FASTENERS
36" O.C. OR CEE-LOCK CLIPS 36" O.C. WITH 2 FASTENERS PER CLIP

ZEE CLOSURE
SEE DETAIL CL-23

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

SOLID SHEATHING

# 30 FELT
UNDERLAYER LAM
OVER RIDGE

FASTENERS: 40" O.C.
CAULK FASTENER
HEADS

1. SEE DETAIL CL-23 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 FELT UNDERLAYER, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE
SECTION VIEW

FIELD FORM END OF RIDGE FLASHING AND EXTEND UNDER CLEAT

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

FIELD TAPERED ZEE CLOSURE WITH CONTINUOUS CAULK UNDER ZEE CLOSURE

CONTINUOUS CEE-RIB WITH 2 FASTENERS 36" O.C. OR CEE-CLIP 36" O.C. WITH 2 FASTENERS PER CLIP AND 2 CLIPS AT END OF PANEL

# 30 FELT UNDERLAYMENT

FASTENERS; 20" O.C. MAX. PLACE A SMALL DAB OF CAULK AT FASTENER LOCATION. DRIVE FASTENER AND CAULK FASTENER HEAD SOLID SHEATHING

VALLEY FLASHING; 12" LAPS WITH CONTINUOUS CAULK AT LAPS

PLAN VIEW

MAIN ROOF PANELS

RIDGE FLASHING

VALLEY FLASHING

DORMER PANEL

RIDGE TERMINATION AT DORMER VALLEY

CEE-LOCK PANEL

DATE: 08-22-05

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CL-22
1. ZEE CLOSURE IS DIE FORMED TO FIT PERPENDICULARLY BETWEEN PANEL SEAMS.
EXTRUDED VINYL WEATHERSEAL
(OPTIONAL) US PATENT NO. 4,641,475.

BERRIDGE CEE-LOCK PANEL

CONTINUOUS CEE-RIB WITH 2
FASTENERS 36" O.C. OR CEE-LOCK
CLIPS 36" O.C. WITH 2 FASTENERS
PER CLIP

TOP LAYER OF FELT TO BE
PARALLEL WITH ROOF SLOPE

FIELD CUT PANEL
AND FORM AROUND
DRIP FLASHING.

PANEL TO BE
CONTINUOUS FROM
EAVE TO RIDGE

1/2"

DRIP FLASHING; 4"
END LAPS WITH
CONTINUOUS CAULK
AT LAPS.

# 30 FELT UNDERLayment
FASTENERS; 20" O.C. MAX.

CONTINUOUS BEAD OF CAULK
SOLID SHEATHING

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 FELT UNDERLAYERMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED
   AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

Berridge Manufacturing Company

CEE-LOCK PANEL

Roofs of Distinction

CABLE DETAIL
PANEL TURNDOWN

DATE: 08-22-05

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CL-30
1. SNAP ADDITIONAL FEMALE LEG ON TO MALE LEG OF PANEL. SLIP PANEL INTO SPECIAL CLOSURE THEN SNAP LOCK PANEL TO ADJACENT PANEL.

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

3. ALL FELT UNDERLAYERMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.

2. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

DRIP FLASHING

SPECIAL CHANNEL CLOSURE

BERRIDGE CEE-LOCK PANEL
# 30 FELT UNDERLAYMENT
FASTENERS; 20" O.C. MAX.
TOP LAYER OF FELT TO BE PARALLEL WITH ROOF SLOPE
FASTENERS; 20" O.C. MAX.
STAGGERED PLACE A DAB OF CAULK AT FASTENER LOCATIONS DRIVE FASTENER AND CAULK FASTENER HEADS
SOLID SHEATHING

1/2"

1 1/2"
EXTRUDED VINYL WEATHERSEAL (OPTIONAL) US
PATENT NO. 4,641,475.
BERRIDGE CEE-LOCK PANEL
CONTINUOUS CEE- RIB WITH 2
FASTENERS 36" O.C. OR CEE-LOCK
CLIPS 36" O.C. WITH 2 FASTENER
PER CLIP
FIELD CUT LAST PANEL AND
SLIP INTO J-CLIP
J-CLIP; 4" END
LAPS WITH CONTINUOUS
CAULK AT LAPS
CONTINUOUS BEAD
OF CAULK
DRIP FLASHING; 4"
END LAPS WITH
CONTINUOUS CAULK
AT LAPS

NOTE: PLACE A SMALL AMOUNT OF CAULK AT J-CLIP FASTENER LOCATION. DRIVE
FASTENER THROUGH CAULK, THEN CAULK FASTENER HEAD.

1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP. PANEL TO BE CONTINUOUS 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 FELT UNDERLAYMENT, CAULKING, AND FASTENERS ARE ITEMS TO BE FURNISHED
AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

DRIP FLASHING

J-CLIP

DATE: 08-22-05
GABLE DETAIL
J-CLIP

CABLE DETAIL
J-CLIP

PAGE\FILE
CL-33

Berridge Manufacturing Company
Roofs of Distinction
1. FIELD CUT AND FORM LAST PANEL AROUND GABLE FLASHING. PANEL MUST BE CONTINUOUS 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 FELT UNDERLayment, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

---

Berridge Manufacturing Company

GABLE DETAIL

CEE-LOCK PANEL

DATE: 08-22-05

PAGE\FILE

CL-34
EXTRUDED VINYL WEATHERSEAL (OPTIONAL) US PATENT NO. 4,641,475.
BERRIDGE CEE-LOCK PANEL
CONTINUOUS CEE-RIB WITH 2 FASTENERS 36” O.C. OR CEE-LOCK CLIP 36” O.C. WITH 2 FASTENER PER CLIP
FIELD CUT LAST PANEL AND SLIP INTO J-CLIP (PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE)
CONTINUOUS BEAD OF CAULK
J-CLIP: 4” END LAPS WITH CONTINUOUS CAULK AT LAPS
SPECIAL CHANNEL CLOSURE: 4” END LAPS WITH CONTINUOUS CAULK AT LAPS

# 30 FELT UNDERLAYERMENT
BERRIDGE FASCIA PANEL
# 30 FELT UNDERLAYERMENT
SOLID SHEATHING

1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP. PANEL MUST BE CONTINUOUS 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 FELT UNDERLAYERMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

SPECIAL CHANNEL CLOSURE

DATE: 08-22-05
PAGE\FILE
CL-35

GABLE DETAIL
Berridge Manufacturing Company
Roofs of Distinction
1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANELS 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 FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
BERRIDGE FASCIA PANEL

# 30 FELT UNDERLAYMENT

COUNTERFLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS POP RIVET TO ZEE CLOSURE 40" O.C.

BERRIDGE CEE-LOCK PANEL

ZEE CLOSURE SEE DETAIL CL-23

CONTINUOUS CEE-RIB WITH 2 FASTENERS 36" O.C. OR CEE-CLIP 36" O.C. WITH 2 FASTENERS PER CLIP

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

FASTENERS; MIN. 3 PER ZEE CLOSURE

FASTENERS; 20" O.C. MAX.

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

SOLID SHEATHING

1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANELS 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.


F = FINISH SIDE

OPEN HEM COUNTERFLASHING

SUB-FLASHING ZEE CLOSURE
1. Field cut Zee Closure to fit between panel seams if panels 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 felt underlayment, caulking, and fasteners, are items to be furnished and installed by the roofing installer at the discretion of the architect.
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 felt underlayment, caulking, and fasteners, are items to be furnished and installed by the roofing installer at the discretion of the architect.
CONTINUOUS CAULK AT REGLET COUNTERFLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

EXTRUDED VINYL WEATHERSEAL (OPTIONAL) US PATENT NO. 4,641,475.

BERRIDGE CEE-LOCK PANEL;
FIELD CUT LAST PANEL AND FORM NEW LEG. PANEL TO BE CONTINUOUS FROM RIDGE TO EAVE.
TOP LAYER OF FELT TO BE PARALLEL WITH ROOF SLOPE
# 30 FELT UNDERLAYMENT

CONTINUOUS CEE-RIB WITH 2 FASTENERS 36" O.C. OR CEE-LOCK CLIPS 36" O.C.
WITH 2 FASTENERS PER CLIP

1. FIELD CUT LAST PANEL AND FORM NEW LEG. 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 FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
TOP FELT LAYER TO RUN PARALLEL WITH ROOF SLOPE

# 30 FELT UNDERLAYMENT

SOLID SHEATHING

CLOSURE CHANNEL

EAVE FLASHING

FASCIA BOARD

SNIP PANEL LEG AND FIELD FORM PANEL PAN AROUND EAVE FLASHING

SEE DETAIL BELOW FOR CAULKING AT THIS LOCATION

# 30 FELT UNDERLAYMENT; CARRY FELT UP RAKE WALL

RAKE WALL

SOLID SHEATHING

CAULK AT CORNER

FASCIA BOARD

RAKE AT EAVE

USE THIS DETAIL AT RAKE DETAILS, CL-52 AND CL-53

DATE: 05-01-97

Berridge Manufacturing Company

CEE-LOCK PANEL

PAGE\FILE

CL-54
1. Field cut Zee closure to fit between seams of wall panels.

2. Solid sheathing (by others) to be minimum 1/2" plywood or equivalent in strength for holding power of fasteners.

3. All felt underlayment, caulking, and fasteners, are items to be furnished and installed by the roofing installer at the discretion of the architect.
BERRIDGE CEE-LOCK PANEL

CONTINUOUS CEE-RIB WITH 2 FASTENERS 36" O.C. OR CEE-LOCK CLIPS 36" O.C. WITH 2 AT END OF PANEL

CONTINUOUS CLEAT

CUT BACK PANEL LEG AND FIELD FORM PANEL PAN TO ENGAGE CONTINUOUS CLEAT

1:12 MIN. SLOPE AWAY FROM PANEL HOOK

TRANSITION FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS.

POP RIVET TO ZEE CLOSURE 40" O.C.

ZEE CLOSURE SEE DETAIL CL-23

CAULK RIVET HEADS

SUB-FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS.

NOTE: PLACE A SMALL AMOUNT OF CAULK AT CLEAT FASTENER LOCATION, DRIVE FASTENER, THEN CAULK FASTENER HEAD.

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

1. SEE DETAIL CL-23 FOR ZEE CLOSURE.

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

3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

DATE: 08-22-05

SLOPE TRANSITION DETAIL

PAGE FILE
CL-61

CEE-LOCK PANEL

Berridge Manufacturing Company
Roofs of Distinction
1. Field cut legs and bend panel as required for change in slope from roof to fascia.

2. Only one slope transition per panel is recommended.

3. See slope transition (CL-63 and CL-64) for panel leg miter and caulking details.

4. If solid sheathing (by others) is used, sheathing must be minimum 1/2" plywood or equivalent in strength for holding power of fasteners.

5. All felt underlayment, caulking, and fasteners, are items to be furnished and installed by the roofing installer at the discretion of the architect.
STEP 1
Determine the angle cut required for roof to fascia and length of fascia panel cut.

A. Place 2 strips of 1 1/2" metal angle one on roof and one on fascia.

B. Measure distance where angles cross to determine the length of angle cut.

C. Measure this distance to determine the length of fascia panel.

Berridge Cee-Lock Panel

LENGTH OF ANGLE CUT

LEG OF PANEL

PAN OF PANEL

STEP 2
With a miter box and hacksaw cut panel legs to angle required for roof to fascia transition.

STEP 3
Bend panel to fit roof to fascia. Make additional cuts per A and B and file burrs.

Berridge Cee-Lock Panel

Female Leg of Panel

Female Leg of Roof Panel

Panel Bend Line

Cut top of female panel leg off the entire length of the fascia panel.

Female Leg of Fascia Panel

File off all burrs at saw cut edges.

STEP 4
Install special channel closure flashing at bottom of fascia. Place fascia panel into special channel closure.

Secure fascia panel to fascia with Cee-Lock clips 20" O.C.

Place panel on roof and secure roof panel with Cee-Lock clips or Cee-Lock rib.

DATE: 05-01-97

SLOPE TRANSITION
ROOF TO FASCIA
INSTALLATION INSTRUCTIONS

Berridge CEE-LOCK PANEL

Manufacturing
Company

Channel Closure
See Detail CL-62

Roofs of Distinction
STEP 5
FROM A FLAT SHEET OF METAL
PAINTED TO MATCH THE ROOF,
CUT A STRIP 1 3/8" WIDE AND
LENGTH AS SHOWN IN DIAGRAM
TO THE RIGHT. THIS METAL STRIP
IS TO BE PLACED INTO THE MALE LEG
OF THE FASCIA PANEL. SEE BELOW.

NOTE: PAINTED SIDE OF METAL STRIP ABOVE
EAVE LINE IS TO FACED PRIMER SIDE OF
ROOF PANEL LEG.

A SLIP METAL STRIP INTO
MALE LEG OF FASCIA PANEL

B MITER CUT METAL STRIP
TO MATCH SLOPE OF ROOF

C PLACE SMALL AMOUNT OF CAULK
AT PANEL AND EAVE LINE
LENGTH OF METAL STRIP

MALE LEG OF CEE-LOCK
FASCIA PANEL

METAL STRIP PLACED
INTO MALE LEG OF
FASCIA PANEL
COLOR SIDE OF
METAL STRIP

STEP 6
PREPARE ADJACENT PANEL FOR INSTALLATION FOLLOWING STEPS 1, 2, AND 3.

STEP 7
INSTALL PANEL PER STEPS 4 AND 5.

STEP 8
CONSULT BERRIDGE MFG COMPANY
REGARDING THE ADDITIONAL FEMALE
LEG FOR THE TURNDOWN APPLICATION.

ADDITIONAL FEMALE LEG

SNAP ON ADDITIONAL
FEMALE LEG

INSTALL NEXT PANEL STARTING AT STEP 1
BERRIDGE CEE-LOCK PANEL

CONTINUOUS CEE-RIB WITH 2 FASTENERS 36" O.C. OR CEE-LOCK CLIP 36" O.C. WITH 2 FASTENERS PER CLIP DO NOT USE FASTENERS IN VALLEY FLASHING.

CONTINUOUS CLEAT; WITH FASTENERS 20" D.C. MAX.

CONTINUOUS BEAD OF CAULK BETWEEN VALLEY FLASHING AND FELT UNDERLAYERMENT
VALLEY FLASHING
SOLID SHEATHING

FIELD CUT PANEL SEAM AND FORM PANEL PAN AROUND CLEAT OF VALLEY FLASHING. DO NOT RUN CONTINUOUS CAULK IN OR ON CLEAT OF VALLEY FLASHING, EXCEPT AT VALLEY FLASHING LAPS.

1. FOR EXPANSION AND CONTRACTION OF PANELS, SEE CI-7 AND CL-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 FELT UNDERLAYERMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

OPEN HEM
CONTINUOUS CLEAT

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

DO NOT RUN CAULK IN OR ON CLEAT OF VALLEY FLASHING

CUT PANEL SEAM BACK, TURN PANEL PAN UNDER AND HOOK PANEL PAN ONTO VALLEY FLASHING.

1/2" 1" MIN.
19 1/2" MIN.

VALLEY FLASHING

2 CONTINUOUS BEADS OF CAULK AT LAPS VALLEY FLASHING LAP

Berridge Manufacturing Company

VALLEY DETAIL

DATE: 08-22-05

Cee-Lock Panel

PAGE\FILE

CL-70
DO NOT RUN CONTINUOUS CAULK IN OR UNDER HOOK TAB. EXCEPT AT VALLEY FLASHING LAPS. SEE DETAIL CL-70.

CEE-LOCK PANEL

CEE-LOCK CLIP OR CONTINUOUS CEE-RIB

CONTINUOUS CLEAT

#30 FELT UNDERLAYMENT

VALLEY FLASHING

CONTINUOUS BEAD OF CAULK

CONTINUOUS CLEAT

SOLID SHEATHING

SEE DETAIL CL-70 FOR VALLEY FLASHING LAP

(2) CEE-CLIPS ABOVE VALLEY FLASHING. USE FASTENERS AT THESE CLIPS OR IF CEE-RIB START FASTENERS ABOVE VALLEY FLASHING. DO NOT USE FASTENERS THRU VALLEY FLASHING.

CONTINUOUS CLEAT; WITH FASTENERS 20" O.C. MAX.
ROOF PIPE PENETRATION OF 4" DIA. OR LESS

RUBBERIZED BOOT FLASHING

BERRIDGE CEE-LOCK PANEL

CONTINUOUS CAULK AND STAINLESS STEEL HOSE CLAMP

SET RUBBERIZED BOOT INTO CONTINUOUS BEAD OF CAULK. USE FASTENERS AS SPEC’D BY BOOT MANUFACTURER. CAULK FASTENER HEADS

CONTINUOUS CEE-RIB OR CEE-CLIP

FASTENERS: 20" O.C. MAX.

SOLID SHEATHING

# 30 FELT UNDERLAYER

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

NOTE: PIPE PENETRATION TO BE IN PAN OF PANEL ONLY

NOTE: FIELD CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK CUT HOLE AND BEND PANEL UP AROUND STACK. CAULK CONTINUOUS.

NOTE: IF PANELS ARE 30' OR LONGER, CUT HOLE TO ALLOW FOR THERMAL MOVEMENT.

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

Berridge Manufacturing Company

PIPE PENETRATION (PREFERRED METHOD) IN PAN OF PANEL; ONLY

CEE-LOCK PANEL

DATE: 08-22-05

PAGE\FILE CL-80
NOTE: CALL BMC BEFORE USING DETAILS ON THIS PAGE. USE ONLY IF PENETRATION OCCURS ON SEAM OR WITHIN AREA OF PAN THAT WILL NOT ACCOMMODATE BOOT. USE WITH SOLID SUBSTRATE ONLY.

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

Use this detail when stack is centered on seam.

Round stack; must be of material compatible with 24 ga. galvanized painted metal.

Cut panel and bend up 1" around stack and caulk.

Run seam and panel up to stack and caulk.

# 30 felt underlayment.

Cee-lock clips; 2 req'd at penetration (if not using continuous rib).

24 ga. round stack flashing to match panel color.

Run seam and panel up to stack and caulk.

# 30 felt underlayment.

Cee-lock clips; 2 req'd at penetration (if not using continuous rib).

Solid sheathing.

Field miter panel legs and sheathing. Cut hole in panel 1" less than dia. of stack. Back cut hole and bend panel up around stack.

**NOTE:** If pipe is made of metal it must be painted to prevent rust run-off from staining panels.

*CALL BMC BEFORE USING THIS DETAIL*

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**SECTION B**

Use this detail when stack is off center of seam.

Round stack; must be of material compatible with 24 ga. galvanized painted metal.

Cut panel and bend up 1" around stack and caulk.

Run seam and panel up to stack and caulk.

Cee-lock clips; 2 req'd at penetration (if not using continuous rib).

24 ga. round stack flashing to match panel color.

Cut panel seams and bend flat to panel. Lap one seam over the other (lap top seam in direction of water flow).

# 30 felt underlayment.

Solid sheathing.

Field cut seam 2" back from stack (above stack). Field miter seam below stack. Cut hole in panel 1" less than dia. of stack. Back cut hole and bend panel up around stack.

*CALL BMC BEFORE USING THIS DETAIL*
CONTINUOUS CLEAT
HEM UNDER TYP BOTH SIDES
ANGLE FLASHING
CEE-LOCK PANEL SEAM
CEE-LOCK PANEL; FIELD BEND TO CURB
CONTINUOUS CLEAT
ZEE CLOSURE
COUNTERFLASHING
SEE DETAIL BELOW

CEE-LOCK PANEL SEAM
CONTINUOUS CLEAT
UPPER CEE-LOCK PANEL; FIELD BEND TO CURB
ANGLE FLASHING
LOWER CEE-LOCK PANEL; FIELD BEND TO CURB
ROOF CURB
ZEE CLOSURE; CUT 2" OFF HORIZONTAL LEGS, BEND VERTICAL LEG AND SLIP BETWEEN CEE-LOCK PANELS, CAULK BETWEEN ZEE CLOSURE, COUNTER FLASHING AND PANEL

COUNTERFLASHING; EXTEND 1/4" BEYOND ZEE CLOSURE (FLASHING CUT AWAY FOR CLARITY)
CEE-LOCK PANEL SEAM

DATE: 08-22-05
PAGE/FILE
SQUARE PENETRATION
PLAN VIEW
CEE-LOCK PANEL
Berridge Manufacturing Company
Roofs of Distinction
1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS. (METAL CORRUGATED SHEATHING MAY BE USED IN LIEU OF PLYWOOD).

2. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
WRAP PERIMETER WITH FELT AND ANGLE FLASHING

ANGLE FLASHING

CURB MATERIAL

CEE-LOCK PANEL; FIELD FORM TO CURB

# 30 FELT UNDERLAYMENT

SOLID SHEATHING

1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS. (METAL CORRUGATED SHEATHING, MIN. 24 GA. MAY BE USED IN LIEU OF PLYWOOD).

2. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED

F = FINISH SIDE

Curb Size + 8

WRAP FLASHING

Curb HT.

ANGLE FLASHING

DATE: 01-31-01

SQUARE PENETRATION
SECTION B

CL-85

CEE-LOCK PANEL

Berridge Manufacturing Company

Roofs of Distinction
DO NOT RUN CONTINUOUS CAULK IN OR UNDER CLEAT

ANGLE FLASHING

CLEAT

FLASHING

CEE-LOCK PANEL FIELD BEND TO CURB

ZEE CLOSURE; CUT AND BEND AT END AND CAULK
SEE DETAIL BELOW

COUNTERFLASHING; EXTEND 1/4" BEYOND ZEE CLOSURE (CUT AWAY VIEW FOR CLARITY)

ANGLE FLASHING

UPPER PANEL

LOWER PANEL

CLEAT

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE AND PANEL
1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE CEE-LOCK PANEL, IN ORDER TO MAKE A POSITIVE ATTACHMENT, MUST BE ATTACHED TO THE STEEL DECK.

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 CEE-LOCK PANEL, IN ORDER TO MAKE A POSITIVE ATTACHMENT, MUST BE ATTACHED TO THE STEEL DECK.

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.
1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE CEE-LOCK PANEL, IN ORDER TO MAKE A POSITIVE ATTACHMENT, MUST BE ATTACHED TO THE STEEL DECK.

2. THIS ASSEMBLY QUALIFIES FOR THE FOLLOWING UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NO. P701, P711, P713, P715, P717, P814, P803, P815, P819, AND P821 ONLY USING SPRAYED ON FIBER IN LIEU OF CEMENTIOUS MIXTURE.

3. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.
1. BERRIDGE CEE-LOCK PANEL * NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) THICKNESS COATED STEEL, 16 1/2 IN. WIDE 1 1/2 IN. HIGH. PANEL (NON-STRUCTURAL VINYL WEATHER SEAL OPTIONAL IN SEAM) CONTINUOUS OVER TWO OR MORE SPANS WITHOUT LAPS.
   BERRIDGE MANUFACTURING CO. - CEE-LOCK PANEL

2. BERRIDGE CEE-RIB (CONTINUOUS) - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL. CEE-RIB LOCATED AT EACH PANEL SIDE LAPS CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANELS" (ITEM ONE)
   BERRIDGE MANUFACTURING CO. - CEE-RIB

3. FASTENERS (SCREWS) - FOR ATTACHING "CEE-RIB" (ITEM TWO) TO LINER (ITEM 6) USE NO. 12 SELF DRILLING, SELF TAPPING STEEL SCREWS, ONE FASTENER AT 24 IN. O.C.

4. PURLINS - NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 4'-0" MAXIMUM SPACING.

5. INSULATION - 4" RIGID INSULATION BOARD.

6. TYPE "F" LINER - NO. 22 MSG (MIN. YIELD STRENGTH 33,000 PSI) STEEL, CORRUGATED LINER.

7. # 30 FELT UNDERLAYER.

8. LATERAL BRACING - (NOT SHOWN) REFER TO GENERAL INFORMATION, ROOF DECK CONSTRUCTION (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.
1. BERRIDGE CEE-LOCK PANEL * NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI)
THICKNESS COATED STEEL, 16 1/2 IN. WIDE 1 1/2 IN. HIGH. PANEL (NON-STRUCTURAL
VINYL WEATHER SEAL OPTIONAL IN SEAM) CONTINUOUS OVER TWO OR MORE SPANS
WITHOUT LAPS.
BERRIDGE MANUFACTURING CO. - CEE-LOCK PANEL

2. BERRIDGE CEE-RIB (CONTINUOUS) - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24
MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL. CEE-RIB LOCATED AT EACH
PANEL SIDE LAPS CONTINUOUS AND EQUAL TO LENGTH OF "METAL ROOF DECK PANEL"
(ITEM ONE)
BERRIDGE MANUFACTURING CO. - CEE-RIB

3. PURLINS - NO. 16 MSG MINIMUM STEEL (MIN. YIELD STRENGTH 50,000 PSI) 4'-0"
MAXIMUM SPACING.

4. INSULATION - 4" RIGID INSULATION BOARD.

5. TYPE "F" LINER - NO. 22 MSG (MIN. YIELD STRENGTH 33,000 PSI) STEEL, CORRUGATED
LINER.

6. # 30 FELT UNDERLAYMENT.

7. LATERAL BRACING - (NOT SHOWN) REFER TO GENERAL INFORMATION, ROOF DECK
CONSTRUCTION (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.
1. BERRIDGE CEE-LOCK PANEL * NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) THICKNESS COATED STEEL, 16 1/2 IN. WIDE 1 1/2 IN. HIGH. PANEL (NON-STRUCTURAL VINYL WEATHER SEAL OPTIONAL IN SEAM) BERRIDGE MANUFACTURING CO. - CEE-LOCK PANEL

2. BERRIDGE CEE-CLIP (PANEL CLIP) - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL. CEE-CLIP LOCATED AT EACH PANEL SIDE LAPS BEING PLACED AT 3'-0" O.C. MAXIMUM. BERRIDGE MANUFACTURING CO. - CEE-CLIP

3. FASTENERS (SCREWS) - FOR ATTACHING "CEE-CLIP" (ITEM TWO) TO DECK USE NO. 10 PANCAKE HEAD TEKS STEEL SCREWS, TWO FASTENER PER "CEE-CLIP".

4. DECK - 5/8" APA 40/20 PLYWOOD.

5. JOIST - 2" X 4" AT 2'-0" O.C. MAXIMUM WITH #12 X 2" PAN HEAD WOOD SCREW AT 12" O.C. MAX. AT PLYWOOD TO JOIST CONNECTION AND AT PLYWOOD ENDS.

6. # 30 FELT UNDERLayment.

7. LATERAL BRACING - (NOT SHOWN) REFER TO GENERAL INFORMATION, ROOF DECK CONSTRUCTION (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.
1. BERRIDGE CEE-LOCK PANEL - NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI)
   THICKNESS COATED STEEL, 16 1/2 IN. WIDE 1 1/2 IN. HIGH. PANEL (NON-STRUCTURAL 
   VINYL WEATHER SEAL OPTIONAL IN SEAM) CONTINUOUS OVER TWO OR MORE SPANS 
   WITHOUT LAPS.
   BERRIDGE MANUFACTURING CO. - CEE-LOCK PANEL

2. BERRIDGE CEE-CLIP (PANEL CLIP) - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 
   MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL. CEE-CLIP LOCATED AT EACH 
   PANEL SIDE LAPS BEING PLACED AT 3'-0" O.C. MAXIMUM.
   BERRIDGE MANUFACTURING CO. - CEE-CLIP

3. DECK - 5/8" APA 40/20 PLYWOOD.

4. JOIST - 2" X 4" AT 2'-0" O.C. MAXIMUM WITH #12 X 2" PAN HEAD WOOD SCREW 
   AT 12" O.C. MAX. AT PLYWOOD TO JOIST CONNECTION AND AT PLYWOOD ENDS.

5. # 30 FELT UNDERLAYMENT.

6. LATERAL BRACING - (NOT SHOWN) REFER TO GENERAL INFORMATION, ROOF DECK 
   CONSTRUCTION (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.