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CONTINUOUS ZEE-RIB, 4” RIGID INSULATION BOARD, BERRIDGE
24 GA. S-DECK, 16 GA. PURLIN                   CZ-96

UL 90 ASSEMBLY; MODIFICATION OF CONSTRUCTION NO. 335 PANEL
WITH CONTINUOUS ZEE-RIB, 4” RIGID INSULATION BOARD,
BERRIDGE 22 GA. S-DECK, 16 GA. PURLIN          CZ-97

UL 90 ASSEMBLY; MODIFICATION OF CONSTRUCTION NO. 335 PANEL
WITH CONTINUOUS ZEE-RIB, 4” RIGID INSULATION BOARD,
BERRIDGE 22 GA. S-DECK, 16 GA. PURLIN          CZ-98

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A. BERRIDGE CURVED ZEE-LOCK PANEL: THE PANEL IS FIELD CURVED FROM STRAIGHT ZEE-LOCK PANELS USING THE BERRIDGE ZC-21 PORTABLE CURVER.

THE BERRIDGE ZEE-LOCK PANEL IS FACTORY FABRICATED AND OR FIELD FABRICATED (USING THE BERRIDGE SP-21 PORTABLE ROLL FORMER) TO A CONSTANT PAN WIDTH OF 16" AND A CONSTANT SEAM HEIGHT OF 2". THE CURVED ZEE-LOCK PANEL SIDE LAPS ARE MECHANICALLY SEAMED IN THE FIELD WITH THE BERRIDGE POWER DRIVEN ZEE-LOCK SEAMER MACHINE.

B. MINIMUM/MAXIMUM RADIUS:
1. MINIMUM RADIUS FOR THE BERRIDGE CURVED ZEE-LOCK PANEL IS 20'-0".

2. THERE IS NO RESTRICTIONS ON THE MAXIMUM RADIUS OTHER THAN THE REQUIREMENT FOR ADEQUATE SLOPE TO PROVIDE DRAINAGE AND TO AVOID PONDING OF WATER, OR BUILD UP OF SNOW OR ICE.

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 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 2.67" PITCH BY 7/8" 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.

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 OF "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. INSTALLATION OVER OPEN FRAMING: REFER TO LOAD TABLES ON PAGES CZI-6 AND CZI-7 FOR STRUCTURAL PROPERTIES AND ALLOWABLE LOAD SPANS OF THE BERRIDGE ZEE-LOCK PANEL.

DIAPHRAGM CAPABILITIES AND PURLING STABILITY ARE MINIMAL AS PROVIDED BY THE BERRIDGE ZEE-LOCK PANEL SYSTEM, THEREFORE OTHER BRACING MAY BE REQUIRED TO CONFORM TO AISC OR AISI SPECIFICATIONS.

BERRIDGE MANUFACTURING COMPANY REQUIRES THE USE OF THE VINYL WEATHERSEAL (US PATENT NO. 5,134,825) FOR ALL CURVED APPLICATIONS.

H. OPEN FRAMING INSPECTION:

1. PURLINS SHOULD BE ALIGNED WITH TOP FLANGES IN THE SAME PLANE TO A TOLERANCE OF 1/4" IN 20'-0". UNEVENNESS IN THE TOP PLANE OF THE PURLINS WILL RESULT IN ABNORMAL "OIL CANNING" OF PANELS. PURLINS SHALL BE ADEQUATELY BRACED.

2. BERRIDGE MANUFACTURING COMPANY RECOMMENDS SOLID SHEATHING IN VALLEY AND AROUND ROOF PENETRATIONS. DO NOT APPLY PANELS ON OPEN FRAMING AT VALLEYS OR ROOF PENETRATIONS WITHOUT REFERING TO DETAILS CZ-73, CZ-85 AND CZ-86.

3. FOOT TRAFFIC ON THE PANELS MUST BE KEPT TO A MINIMUM. ARCHITECTURAL PANEL ARE DESIGNED FOR AESTHETICS AND CAN BE EASILY DAMAGED OR DEFORMED IF EXTREME CARE IS NOT USED.

I. 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.

J. UNDERLAYERMENT: A SINGLE LAYER OF BERRIDGE ICE & WATERGUARD OR EQUAL MUST BE APPLIED OVER SOLID SHEATHING AS SHOWN IN THE BERRIDGE MANUFACTURING COMPANY UNDERLAYERMENT DETAILS, AND ADDITIONAL LAYERS AS DEPICTED IN THE CURVED ZEE-LOCK PANEL DETAILS.

K. UNDERLAYERMENT INSTALLATION:

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

2. SWEEP ROOF AREA CLEAN.

3. INSTALL VALLEY ICE & WATERGUARD FIRST.

4. INSTALL ICE & WATERGUARD PARALLEL TO THE EAVE, (2 LAYERS REQUIRED AT EAVE) STARTING AT EAVE AND USING MINIMUM 6" LAPS.

5. REFER TO DETAILS WHEN VALLEYS OR ROOF PENETRATIONS ARE INVOLVED ON OPEN FRAMING CONDITIONS.

6. INSULATE BETWEEN WOOD BLOCKING AND METAL WITH ICE & WATERGUARD.

L. 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 CHART ON PAGE CZI-8 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.

PANELS OVER 30'-0" LONG REQUIRE EXPANSION CLIPS WHEN USED WITH CONTINUOUS ZEE- RIB. REFER TO DETAIL CZ-5.

M. 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.

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

O. 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 STRIPPEABLE 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.

P. PANELS: BERRIDGE MANUFACTURING COMPANY WILL PROVIDE SQUARE END CUTS ONLY ON ALL ZEE-LOCK PANELS. COMPUTATION OF ALL QUANTITIES AND DIMENSIONS ARE THE RESPONSIBILITY OF THE PURCHASER.

Q. PANEL INSTALLATION:

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

2. START AT ONE GABLE END WITH THE FEMALE LEG OF THE PANEL AND WORK TOWARD THE OTHER GABLE.

3. INSTALL THE CONTINUOUS ZEE-RIB WITH VINYL WEATHERSEAL ALONG THE LEADING MALE LEG OF EACH PANEL AS PER BERRIDGE TYPICAL DETAILS AND RIB AND INSTALLATION NOTES.

4. USE BERRIDGE ZEE-LOCK SEAMER AT PANEL SIDE LAPS. REFER TO PANEL SEAM NOTES.

5. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LEGS. ANY CRIMPS IN VERTICAL LEGS MUST BE STRAIGHTENED (TOTALEY STRAIGHT WITHOUT ANY BENDS, CRIMPS, CREASES, ETC.) PRIOR TO SEAM INSTALLATION.

6. 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 TEN OR TWELVE PANELS IN ONE ELEVATION AND THEN FOLLOW WITH A LIKE NUMBER OF PANELS ON THE OTHER ELEVATION. WHEN INSTALLING PANELS IN THIS MANNER, ADJUSTMENTS CAN BE MADE TO INSURE SEAMS MATCHING.
7. COPPER-COTE™ CHAMPAGNE, LEAD-COTE™ ZINC-COTE™ AND PREWEATHERED 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, FORM 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.

R. PANEL SEAM: THE BERRIDGE CURVED ZEE—LOCK PANEL IS A MECHANICALLY SEAMED
   PANEL BY USE OF THE BERRIDGE ZEE—LOCK SEAMER MACHINE.

S. SEAMER INSTRUCTIONS:

1. PREPARE THE SIDE LAP SEAM FOR MACHINE SEAMING BY CRIMPING THE STARTING
   END OF THE SIDE LAP USING THE BERRIDGE HAND CRIMPER TOOL. THIS CREATES A
   SEAMED AREA WHERE THE ZEE—LOCK SEAMER MACHINE WILL BE POSITIONED TO
   COMMENCE SEAMING THE SIDE LAP.

2. POSITION SEAMER ON PANEL SIDE LAP. WHEN CORRECTLY POSITIONED SEAMER WILL
   REST AT A 30° ANGLE, WITH BOTH ROLLER WHEELS RESTING ON PANEL FLATS.

3. HAND SEAM TERMINATING END OF SIDE LAP IF OBSTRUCTION PREVENTS SEAMING
   MACHINE FROM SEAMING SIDE LAP ALL THE WAY TO THE END.

4. DO NOT LET SEAMER TRAVEL OFF END OF PANEL AND OVER EDGE OF EAVE.
   SEAMER DOES NOT AUTOMATICALLY SHUT OFF AT END OF SEAM.

5. ROOF SLOPES WITH A RISE OF MORE THAN 6" ON 12" SHOULD BE SEAMED
   IN A DOWNHILL DIRECTION. ATTEMPTING TO RUN SEAMER UP HILL ON STEEP SLOPE
   ROOFS MAY CAUSE ROLLER DIES TO SLIP AND RUB PAINT OFF PANEL LEGS.

6. REFER TO OPERATIONS MANUAL FOR IN—DEPTH INSTRUCTIONS AND MAINTENANCE
   PROCEDURES.

T. CONTINUOUS ZEE—RIB WITH VINYL WEATHERSEAL IS TO BE FIELD CURVED WITH THE
   BERRIDGE ZC—21 PORTABLE CURVER.

1. INSTALL ZEE—RIB AS PER BERRIDGE TYPICAL CURVED ZEE—LOCK PANEL DETAILS.

2. THE ZEE—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 CZ—5.

U. VINYL WEATHERSEAL (US PATENT NO. 5,134,825): THE VINYL WEATHERSEAL IS
   FACTORY APPLIED TO THE CONTINUOUS ZEE—RIB. THIS ALLOWS THE ARCHITECT TO
   SPECIFY A VINYL WEATHERSEAL WITHOUT INCURRING ANY ADDITIONAL FIELD LABOR.
   BERRIDGE MANUFACTURING COMPANY REQUIRES VINYL WEATHERSEAL FOR ALL CURVED
   APPLICATIONS.
V. FASTENERS: INSTALL FASTENERS AS PER TYPICAL DETAILS. USE #10 HEX HEAD ZINC PLATED FASTENERS WHEN FASTENING TO WOOD. USE #12 HEX HEAD ZINC PLATED FASTENERS WHEN FASTENING TO 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 RIB AND/OR FLASHINGS TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.

W. UNDERWRITERS LABORATORIES RATINGS: THE BERRIDGE ZEE-LOCK PANEL COMPLIES WITH UL TEST PROCEDURE NO. 580 "TEST FOR WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES" CLASS UL 90 CONSTRUCTION NUMBER 312 REFER TO DETAILS CZ-90, CZ-91, CZ-96 AND CZ-97. CONSTRUCTION NUMBER 335 REFER TO DETAILS CZ-92, CZ-93, CZ-94, AND CZ-95.

REFER TO DETAILS, CZ-100, CZ-101 AND CZ-102. FOR UL FIRE RESISTANCE DESIGN ASSEMBLIES.

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 ZEE-LOCK PANEL SYSTEM.

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

*CONSULT BERRIDGE MANUFACTURING’S ENGINEERING DEPARTMENT REGARDING FASTENER SPACING TO MEET DESIGN CRITERIA, AND THE USE OF ANY OTHER TYPE OF FASTENER.
### Section Properties Based on 24 Gauge 40 K.S.I.

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<th>Zee-Lock Panel</th>
<th>$d_{x}(\text{in}^4/\text{ft})$</th>
<th>$M_{x}(\text{ft-lb}/\text{ft})$</th>
<th>$V_{x}(\text{lbs})$</th>
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<tr>
<td>Positive Bending</td>
<td>0.11779</td>
<td>132.35</td>
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<tr>
<td>Negative Bending</td>
<td>0.06645</td>
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Properties are effective and are per foot of panel coverage. Based on 1986 AISI Coldform Steel Design Manual, March 1987, and Rational Analysis. Design thickness = 0.0215 in.

### Recommended Load in Pounds per Square Foot
(Panel weight = 1.3 PSF)

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<tr>
<th>Span (Feet)</th>
<th>Net Vertical Live Load</th>
<th>Net Vertical Wind Uplift</th>
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<tr>
<td></td>
<td>1-Span</td>
<td>2-Span</td>
</tr>
<tr>
<td>2'-0&quot;</td>
<td>40</td>
<td>70</td>
</tr>
<tr>
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</tr>
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</tr>
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<td>15</td>
<td>30</td>
</tr>
<tr>
<td>5'-0&quot;</td>
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<td></td>
</tr>
<tr>
<td>6'-0&quot;</td>
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<td></td>
</tr>
<tr>
<td>7'-0&quot;</td>
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**Notes**

1. All loads meet L/240 deflection criteria unless otherwise noted.
2. Wind load allowables increased by 33 percent.
### SECTION PROPERTIES BASED ON 24 GAUGE 40 K.S.I.

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<tr>
<th>ZEE-LOCK PANEL WITH CONTINUOUS 24-GAUGE ZEE-RIB</th>
<th>$d_{l_{x}}$ (in$^4$/ft)</th>
<th>$M_{A}$ (Ft-lbs/ft)</th>
<th>$V_{A}$ (Lbs)</th>
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<tr>
<td>POSITIVE BENDING</td>
<td>0.1525</td>
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<tr>
<td>NEGATIVE BENDING</td>
<td>0.1030</td>
<td>161.33</td>
<td>990</td>
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**Properties are effective and are per foot of panel coverage. Based on 1986 AISI Cold Form Steel Design Manual, March 1987, and rational analysis. Design Thickness = 0.0215 in.**

### RECOMMENDED LOAD IN POUNDS PER SQUARE FOOT (PANEL WEIGHT = 1.3 PSF)

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<thead>
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<th>SPAN (FEET)</th>
<th>NET VERTICAL LIVE LOAD</th>
<th>NET VERTICAL WIND UPLIFT</th>
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<td>1-SPAN</td>
<td>2-SPAN</td>
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<tr>
<td>2'-6&quot;</td>
<td>45</td>
<td>70</td>
</tr>
<tr>
<td>3'-0&quot;</td>
<td>40</td>
<td>70</td>
</tr>
<tr>
<td>3'-6&quot;</td>
<td>35</td>
<td>70</td>
</tr>
<tr>
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<td>60</td>
</tr>
<tr>
<td>4'-6&quot;</td>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>5'-0&quot;</td>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>6'-0&quot;</td>
<td>25</td>
<td>35</td>
</tr>
<tr>
<td>7'-0&quot;</td>
<td>20</td>
<td>25</td>
</tr>
</tbody>
</table>

**Notes:**
1. All loads meet L/240 deflection criteria unless otherwise noted.
2. Wind load allowables increased by 33 percent.
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°F 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.
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°F 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 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.
NO. 12 HEX HEAD FASTENERS ATTACH THROUGH SUPPORT CLIPS ONLY

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

TOP SUPPORT CLIP

ZEE-RIB (20'-0" LONG)

1 1/2"

1 1/2"

BOTTOM SUPPORT CLIP

ZEE-RIB (20'-0" LONG)

2"

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
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 CZ1-8.

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

3. See also expansion joint detail CZ-5.
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.
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.

BERRIDGE CURVED ZEE-LOCK PANEL

ICE & WATERGUARD UNDERLAYMENT LAP OVER RIDGE

FASTENERS; MIN. 2 PER ZEE CLOSURE

SOLID SHEATHING

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

Berridge Manufacturing Company

PAGE\FILE

CZ-20
CONTINUOUS ZEE–RIB AND VINYL WEATHERSEAL WITH 2 FASTENERS 36" O.C.

BERRIDGE CURVED ZEE–LOCK PANEL

ZEE CLOSURE; CUT TO FIT BETWEEN SEAMS.

FASTENERS; 2 PER ZEE CLOSURE MINIMUM

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

CONTINUOUS BEAD OF CAULK BETWEEN ZEE–LOCK PANEL AND ZEE CLOSURE

ICE & WATERGUARD UNDERLAYMENT
SOLID SHEATHING

1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS AT HIPS.

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

OPEN HEMS

1/2" 1/2"

1" 1/8"

DATE: 2/19/03

HIP DETAIL SOLID SUBSTRATE

Berridge Manufacturing Company

CURVED ZEE–LOCK PANEL
1. ZEE CLOSURE IS DIE FORMED TO FIT PERPENDICULARLY BETWEEN PANEL SEAMS.
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, caulk, and fasteners, are items to be furnished and installed by the roofing installer at the discretion of the architect.

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**Gable Detail**

**Panel Turndown**

**Solid Substrate**

**Curved Zee-Lock Panel**

**Factory Applied Extruded Vinyl Weatherseal**

US Patent No. 5,134,825

See detail CZ-4
BERRIDGE CURVED ZEE-LOCK PANEL

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

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

FIELD CUT AND FORM AROUND DRIP FLASHING, PANEL TO BE CONTINUOUS RIDGE TO EAVE

1/2"

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

FIELD CURVE WITH CRIMPER

BERRIDGE FASCIA/SIDING

FACTORY APPLIED EXTRUDED VINYL WEATHERSEAL

US PATENT NO. 5,134,825

SEE DETAIL CZ-4

PURLIN

SUB-FLASHING FASTENER; ONE AT EACH PURLIN

FASTENERS; 20" O.C. MAX.

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

FIELD CURVE DRIP FLASHING WITH CRIMPER

DRIP FLASHING

SUB-FLASHING

F = FINISH SIDE

DATE: 2/19/03

GABLE DETAIL PANEL TURNDOWN OPEN FRAMING

CURVED ZEE-LOCK PANEL

Berridge Manufacturing Company

Reefs of Distinction
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.
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.

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**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.
REGLET

CONTINUOUS CAULK AT REGLET

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

FASTENERS; 20" O.C. MAX.

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

BERRIDGE CURVED ZEE-LOCK PANEL

CONTINUOUS ZEE-RIB AND VINYL WEATHERSEAL WITH 2 FASTENERS AT EACH PURLIN

ZEE CLOSURE; REFER TO DETAIL CZ-22

PURLIN

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

FASTENERS; MIN. 2 PER ZEE CLOSURE

FASTENERS; 20" O.C. MAX.

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.

F = FINISH SIDE

OPEN HEM

1/2"

2 1/8"

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.
CONTINUOUS BEAD OF CAULK AT REGLET
COUNTERFLASHING; CUT TO MATCH RADIUS OF ROOF 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

EXTRUDED VINYL WEATHERSEAL
US PATENT NO. 5,134,825
SEE DETAIL CZ-4

BERRIDGE CURVED ZEE-LOCK PANEL
ICE & WATERGUARD UNDERLAYMENT
TOP LAYER TO BE PARALLEL WITH RAKE WALL
CONTINUOUS ZEE-RIB AND VINYL WEATHERSEAL WITH 2 FASTENERS 36" O.C.

REGLET
FASTENERS; 20" O.C. MAX.
SUB-FLASHING; BACK CUT VERTICAL LEGS AS REQUIRED AND FORM TO RADIUS OF ROOF
FIELD CUT LAST PANEL AND SLIP INTO J-CLIP, PANEL CONTINUOUS WITH OUT END LAPS
CONTINUOUS BEAD OF CAULK
J-CLIP; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

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

RAKE WALL DETAIL
REGLET
SOLID SUBSTRATE

CURVED ZEE-LOCK PANEL
CONTINUOUS CAULK AT REGLET
COUNTERFLASHING; 4" END LAPS WITH
CONTINUOUS CAULK AT LAPS

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

BERRIDGE CURVED
ZEE–LOCK PANEL

TOP LAYER OF ICE &
WATERGUARD TO BE
PARALLEL WITH
ROOF SLOPE

SUB–FLASHING; BACK CUT VERTICAL
LEG AS REQUIRED AND FORM TO
RADIUS OF ROOF

REGLET
EXTRUDED VINYL
WEATHERSEAL
US PATENT NO. 5,134,825
SEE DETAIL CZ–4

FIELD CUT AND FORM
LAST PANEL. MIN. 2" LEG.
FASTENERS; 20" O.C. MAX.

CONTINUOUS BEAD OF
CAULK
ICE & WATERGUARD
UNDERLAYERMENT
SOLID SHEATHING

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 UNDERLAYERMENT, 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
COUNTERFLASHING

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.
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
UNDERLAYERMENT
FASTENERS; 20” O.C.
MAX.
SOLID SHEATHING
FASTENERS; MIN. 3
PER CLOSURE
ICE & WATERGUARD
UNDERLAYERMENT
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 UNDERLAYERMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED
AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

MIN. 1” MAXIMUM
EXPANSION OF PANEL +1/2”
OPEN HEM
EAVE FLASHING
SPECIAL ZEE CLOSURE

F = FINISH SIDE
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

CONTINUOUS BEAD OF CAULK BETWEEN VALLEY FLASHING
AND ICE & WATERGUARD

VALLEY FLASHING
SOLID SHEATHING

ICE & WATERGUARD
UNDERLAYMENT

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

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.

$F = \text{FINISH SIDE}$

1/2"

\[20 \frac{1}{2}" \text{ MIN.}\]

VALLEY FLASHING
CONTINUOUS CLEAT

Berridge Manufacturing Company
Roofs of Distinction

VALLEY DETAIL
SOLID SUBSTRATE
CURVED ZEE-LOCK PANEL

DATE: 2/19/03
PAGE\FILE
CZ-70
FASTEN THROUGH VALLEY ONLY AT TOP OF FLASHING UNDER LAP, NO FASTENERS ARE TO BE EXPOSED ON TOP (OVERLAPPING) VALLEY

12" LAP

USE SHORT LENGTH FLASHING AND FAN LAYOUT AROUND VALLEY

2 CONTINUOUS BEADS OF CAULK AT LAPS.
**Berridge Curved Zee-Lock Panel**

Continuous 2" Zee-Rib with Vinyl Weatherseal

Continuous cleat, with fasteners 20" O.C. max. Place a dab of caulk at fastener location. Drive fastener and caulk fastener head.

Flat Sheet Valley Sub-Flash.

Continuous bead of caulk between valley flashing and ice & waterguard.

Valley Flashing.

Berridge Corrugated S-Deck.

* 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
BERRIDGE CURVED ZEE-LOCK PANEL

CONTINUOUS 2" ZEE-RIB WITH VINYL WEATHERSEAL

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

PLACE A DAB OF CAULK AT FASTENER LOCATION

DRIVE FASTENER & CAULK FASTENER HEADS

VALLEY FLASHING

BERRIDGE CORRUGATED S-DECK

ICE & WATERGUARD UNDERLAYMENT

FIELD CUT PANEL SEAM AND FORM PANEL PAN AROUND CLEAT OF VALLEY FLASHING, DO NOT RUN CAULK IN OR UNDER CLEAT OF VALLEY FLASHING.

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

ICE AND WATERGUARD.

ALLOW TO SAG INTO CORRUGATIONS OF S-DECK.

RUN RIDGE TO EAVE

BERRIDGE FACTORY CURVED CORRUGATED S-DECK PLACED ON TOP OF PURLINS

THIS AREA USE THE 3" ZEE-RIB

THIS AREA OVER CORRUGATED DECK USE 2" ZEE-RIB

NOTE: LAP 2" ZEE-RIB INTO 3" ZEE-RIB (3" LAP)

DATE: 2/19/03

PAGE\FILE

CZ-73

VALLEY DETAIL

OPEN FRAMING; 3" ZEE-RIB WITH THERMAL BLOCKS AND VINYL FACED INSULATION

Berridge Manufacturing Company
Roofs of Distinction

BERRIDGE FACTORY CURVED CORRUGATED S-DECK

ICE AND WATERGUARD

VF BLANKET INSULATION

SECTIONS

SLICE

EAVE

PURLINS

SLOPE

RIDGE

SEE SECTION

PURLINS

SECTION

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

ROOFS ABOVE 4:12 3'-0" MIN.
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

BERRIDGE CURVED ZEE-LOCK PANEL
FLAT SHEET; CUT TO CURVE OF VALLEY
COUNTER FLASHING; BACK CUT LEG UNDER UPPER PANEL AND LAYOUT TO CURVE 20" MIN.
CONTINUOUS BEAD OF CAULK
CONTINUOUS BEAD OF CAULK
CONTINUOUS CLEAT
VALLEY FLASHING
SOLID SHEATHING

CONTINUOUS BEAD OF CAULK BETWEEN VALLEY FLASHING AND ICE & WATERGUARD
FIELD CUT PANEL SEAM AND FORM PANEL PAN AROUND CLEAT OF VALLEY FLASHING, DO NOT RUN CAULK IN OR ON CLEAT OF VALLEY FLASHING
ICE & WATERGUARD UNDERLAYMENT

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.
Continuos cleat
Angle flashing
Berridge curved Zee-lock panel seam
Berridge curved Zee-lock panel; field bend to curb
Continuos cleat
Zee closure
See detail below
Counterflashing

Upper curved Zee-lock panel; field bend to curb see detail CZ-84
Angle flashing
Lower curved Zee-lock panel; field bend to curb
Roof curb
Zee closure; cut 2" off horizontal legs, bend vertical leg and slip between Zee-lock panels, caulk between Zee closure, counterflashing and panel

Counterflashing; extend 1/4" beyond Zee closure (flashing cut away for clarity)
1/4"

Berridge curved Zee-lock panel seam

Square penetration plan view
Open framing and solid substrate

CZ-81

DATE: 2/19/03

Berridge Manufacturing Company

CZ-81

CURVED ZEE-LOCK PANEL
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.
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.

F = FINISH SIDE

FIELD CUT FLASHING TO RADIUS OF ROOF

FLASHING
DO NOT: RUN CONTINUOUS CAULK ON OR UNDER CONTINUOUS CLEAT

BERRIDGE CURVED ZEE-LOCK PANEL

ANGLE FLASHING

COUNTERFLASHING

SLOPE

FLASHING PANEL
HEM PANEL PAN UNDER BOTH SIDES OF PENETRATION

BERRIDGE CURVED ZEE-LOCK PANEL FIELD BEND TO CURB BACK CUT VERTICAL LEG

SEE DETAIL BELOW

ZEE CLOSURE; CUT AND BEND AT END AND CAULK

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

ZEE CLOSURE; CUT AND BEND AT END AND CAULK

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE AND PANEL

CONTINUOUS CLEAT
FOR ROOF PENETRATIONS LARGER THAN 4" IN DIA.

CARRY UP TO NEXT PURLIN

SQUARE OR ROUND PENETRATION

ICE AND WATERGUARD RUN CONTINUOUS TO EAVE

FLAT SHEET SUB-FLASHING RUN CONTINUOUS TO EAVE

BERRIDGE CORRUGATED S-DECK

PURLINS

SLOPE

SEE SECTION

USE 2" ZEE-RIB AS PER DETAIL Z-90.2-91

FLAT SHEET VALLEY SUB-FLASHING

ICE AND WATERGUARD

BERRIDGE CORRUGATED S-DECK

16 GA. CLIP ANGLE

16 GA. CURVED ANGLE

PURLIN

SECTION
FOR ROOF PENETRATIONS LARGER THAN 4" IN DIA.

ICE AND WATERGUARD; ALLOW TO SAG INTO CORRUGATIONS OF BERRIDGE S-DECK RUN CONTINUOUS TO EAVE

USE 3" ZEE-RIB 1'-0" MINIMUM 1'-0" MINIMUM

CARRY UP TO NEXT PURLIN

SLOPE

SQUARE OR ROUND PENETRATION

SEE SECTION

NOTE: LAP 2" ZEE-RIB INTO 3" ZEE-RIB (3" LAP)

USE 3" ZEE-RIB AS PER DETAIL CZ-96, CZ-97.
USE 2" ZEE-RIB AS PER DETAIL CZ-90, CZ-91.*
USE 3" ZEE-RIB AS DETAIL CZ-96, CZ-97.

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

BERRIDGE FACTORY CURVED CORRUGATED S-DECK
ICE AND WATERGUARD

PURLIN
VF BLANKET INSULATION
SECTION

CURVED ZEE-LOCK PANEL

DATE: 2/19/03
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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.
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.
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.
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.
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.
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.
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.
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.
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. 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 nailable 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.
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.