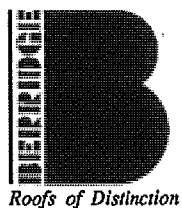


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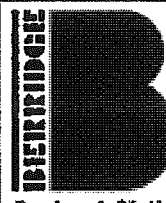
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- A. BERRIDGE ZEE-LOCK PANEL: THE BERRIDGE ZEE-LOCK PANEL IS FACTORY FABRICATED AND/OR FIELD FABRICATED (USING THE BERRIDGE SP-21 PORTABLE ROLL FORMER) TO A CONSTANT PAN WIDTH OF 16" AND A CONSTANT SEAM HEIGHT OF 2" (THE ZEE-LOCK SIDE LAPS ARE MECHANICALLY SEAMED IN THE FIELD WITH THE BERRIDGE POWER DRIVEN ZEE-LOCK SEAMER MACHINE).
- B. MINIMUM SLOPE: THE ZEE-LOCK PANEL IS RECOMMENDED FOR ROOF SLOPES OF 1 ON 12 OR GREATER. FOR SLOPES LOWER THAN 1 ON 12, CONTACT BERRIDGE. BERRIDGE MANUFACTURING COMPANY RECOMMENDS THE USE OF THE VINYL WEATHERSEAL (US PATENT NO. 5,134,825) FOR ALL OPEN FRAMING APPLICATIONS.
- 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 1/2" PITCH BY 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 UNDERLAYMENT OR EQUAL MUST BE USED OVER ANY SOLID SHEATHING).

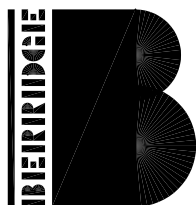
DUE TO # 30 FELTS TENDENCY TO TEAR WHEN USED OVER CORRUGATED DECKING BERRIDGE MANUFACTURING RECOMMENDS GRACE ICE AND WATERSHIELD OR EQUAL TO BE USED AS AN UNDERLAYMENT FOR ALL CORRUGATED DECKS.

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 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 ZI-6 AND ZI-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



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CONFORM TO AISC OR AISI SPECIFICATIONS.

BERRIDGE MANUFACTURING COMPANY RECOMMENDS THE USE OF THE VINYL WEATHERSEAL (US PATENT NO. 5,134,825) FOR ALL OPEN FRAME 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" 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 Z-73, Z-87 AND Z-88.
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. FELT UNDERLAYMENT: A SINGLE LAYER OF NUMBER THIRTY 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 NUMBER THIRTY FELT IS RECOMMENDED ON LOW SLOPED ROOFS, AT ALL VALLEY CONDITIONS, AT ROOF PENETRATIONS AND CERTAIN OTHER FLASHING CONDITIONS AS DEPICTED IN THE ZEE-LOCK TYPICAL DETAILS.

GRACE ICE AND WATERSHIELD MAY BE REQUIRED ON LOW SLOPED ROOFS OR AT CERTAIN FLASHING CONDITIONS.

K. 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 1 1/4" LONG WITH BERRIDGE GALVANIZED FELT CAPS.
4. INSTALL VALLEY FELT FIRST.
5. INSTALL FELT PARALLEL TO THE EAVE, (2 LAYERS REQUIRED AT EAVE) STARTING AT EAVE AND USING MINIMUM 6" LAPS. USE 2 LAYERS OF FELT ON ENTIRE ROOF DECK IF ROOF SLOPE IS 3 ON 12 OR LESS. 2 LAYERS REQUIRED AT EAVE REGARDLESS OF SLOPE.
6. REFER TO FELTING DETAILS WHEN VALLEYS OR ROOF PENETRATIONS ARE INVOLVED ON OPEN FRAMING CONDITIONS.
7. INSULATE BETWEEN WOOD BLOCKING AND METAL WITH FELT OR GRACE ICE AND WATERSHIELD

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 ZI-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

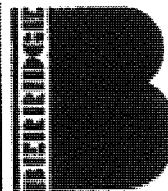
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AND/OR CAUSE FLASHING TO WORK LOOSE FROM ITS ANCHORAGE.

PANELS OVER 30'-0" LONG REQUIRE EXPANSION CLIPS WHEN USED WITH CONTINUOUS ZEE-RIB. REFER TO DETAIL Z-6.

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.

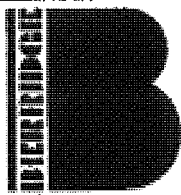
FLASHING INSTALLATION:

1. REMOVE 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.

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 STRIPPABLE 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 EITHER THE CONTINUOUS ZEE-RIB OR ZEE-LOCK CLIPS ALONG THE LEADING MALE LEG OF EACH PANEL AS PER BERRIDGE TYPICAL DETAILS AND RIB AND CLIP 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 (TOTALLY 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 YOU INSTALL PANELS IN THIS MANNER, YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO INSURE SEAM MATCHING.



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7. COPPER-COTE™, CHAMPAGNE, LEAD-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, FROM A DISTANCE, A DIFFERENT SHADE DUE TO
THE GRANULAR EFFECT OF THE PIGMENTS IN THE FINISH. METALLIC FINISHES ARE
MATCH - LOT FINISHES. DO NOT MIX LOTS.

R. PANEL SEAM: THE BERRIDGE 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 WHEELS TO SLIP AND RUB PAINT OFF PANEL LEGS.
6. THE MACHINE SEAMING OF THE ZEE-LOCK PANEL IS DONE IMMEDIATELY AFTER
THE INSTALLATION OF EACH PANEL.
7. REFER TO OPERATIONS MANUAL FOR IN-DEPTH INSTRUCTIONS AND MAINTENANCE
PROCEDURES.

T. ZEE-LOCK CLIP INSTALLATION:

1. INSTALL CLIPS AS PER BERRIDGE TYPICAL ZEE-LOCK PANEL DETAILS.
2. CLIP SPACING ON SOLID SHEATHING TYPICALLY 36" ON CENTER. *

U. CONTINUOUS ZEE-RIB:

1. INSTALL ZEE-RIB AS PER BERRIDGE TYPICAL 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 Z-6.

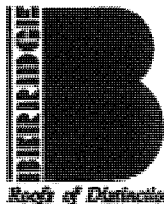
* NOTE: IF LOCAL CODES OR OTHER REGULATIONS DICTATE SPECIFIC WIND UPLIFT
REQUIREMENTS, CONSULT BERRIDGE ENGINEERING DEPARTMENT, AS IT MAY BE
NECESSARY TO USE A DIFFERENT CLIP SPACING OR FASTENER.

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V. **VINYL WEATHERSEAL (US PATENT NO. 5,134,825):** THE OPTIONAL 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 RECOMMENDS VINYL WEATHERSEAL FOR ALL OPEN FRAME APPLICATIONS.

W. **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 CLIP AND/OR FLASHINGS TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.

X. **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 Z-90, Z-91, Z-92 AND Z-93. CONSTRUCTION NUMBER 335 REFER TO DETAILS Z-94 AND Z-95, AND CONSTRUCTION NUMBER 403 REFER TO DETAILS Z-101 AND Z-102. REFER TO DETAILS Z-96, Z-97 AND Z-98 FOR UL FIRE RESISTANCE DESIGN ASSEMBLIES.

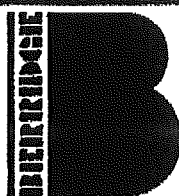
BERRIDGE MANUFACTURING COMPANY STRIVES TO PROVIDE ITS CUSTOMERS WITH THE HIGHEST QUALITY STRETCHER LEVELED STEEL AVAILABLE. THE LATEST TECHNOLOGY IS ALSO INCORPORATED IN BERRIDGE'S HIGH-PRECISION COIL HANDLING AND ROLL FORMING EQUIPMENT TO MINIMIZE THE STRESS ON METAL DURING PRODUCTION. FURTHERMORE, 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.



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SECTION PROPERTIES BASED ON 24 GAUGE 40 K.S.I.			
ZEE-LOCK PANEL	$dl_x(\text{in}^4/\text{ft})$	$M_A(\text{Ft-lbs}/\text{Ft})$	$V_A(\text{Lbs})$
POSITIVE BENDING	0.11779	132.35	662
NEGATIVE BENDING	0.06645	104.53	662

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)						
SPAN (FEET)	NET VERTICAL LIVE LOAD			NET VERTICAL WIND UPLIFT		
	1-SPAN	2-SPAN	3-SPAN	1-SPAN	2-SPAN	3-SPAN
2'-0"	40	70	70	90	90	90
2'-6"	35	70	70	90	90	90
3'-0"	30	60	70	90	90	90
3'-6"	25	50	60	70	85	90
4'-0"	20	40	45	55	65	80
4'-6"	15	30	35	44	55	60
5'-0"		25	30		45	50
6'-0"						
7'-0"						

NOTES

1. ALL LOADS MEET L/240 DEFLECTION CRITERIA UNLESS OTHERWISE NOTED.
2. WIND LOAD ALLOWABLES INCREASED BY 33 PERCENT.

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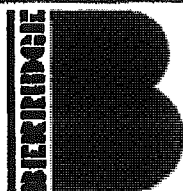
SECTION PROPERTIES BASED ON 24 GAUGE 40 K.S.I.			
ZEE-LOCK PANEL WITH CONTINUOUS 24-GAUGE ZEE-RIB	$dl_x (\text{in}^4/\text{ft})$	$M_A (\text{Ft-lbs/Ft})$	$V_A (\text{Lbs})$
POSITIVE BENDING	0.1525	184.65	990
NEGATIVE BENDING	0.1030	161.33	990

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)						
SPAN (FEET)	NET VERTICAL LIVE LOAD			NET VERTICAL WIND UPLIFT		
	1-SPAN	2-SPAN	3-SPAN	1-SPAN	2-SPAN	3-SPAN
2'-0"	50	70	70	90	90	90
2'-6"	45	70	70	90	90	90
3'-0"	40	70	70	90	90	90
3'-6"	35	70	70	90	90	90
4'-0"	30	60	70	85	80*	80*
4'-6"	25	50	55	65	70*	70*
5'-0"	20	40	45	55	60	65*
6'-0"		25	35		40	50
7'-0"		20	25		30	35

NOTES:-

1. ALL LOADS MEET L/240 DEFLECTION CRITERIA UNLESS OTHERWISE NOTED.
2. WIND LOAD ALLOWABLES INCREASED BY 33 PERCENT.
3. * DENOTES LOADS CONTROLLED BY STANDARD UL-90 CONNECTION.



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Roofs of Distinction

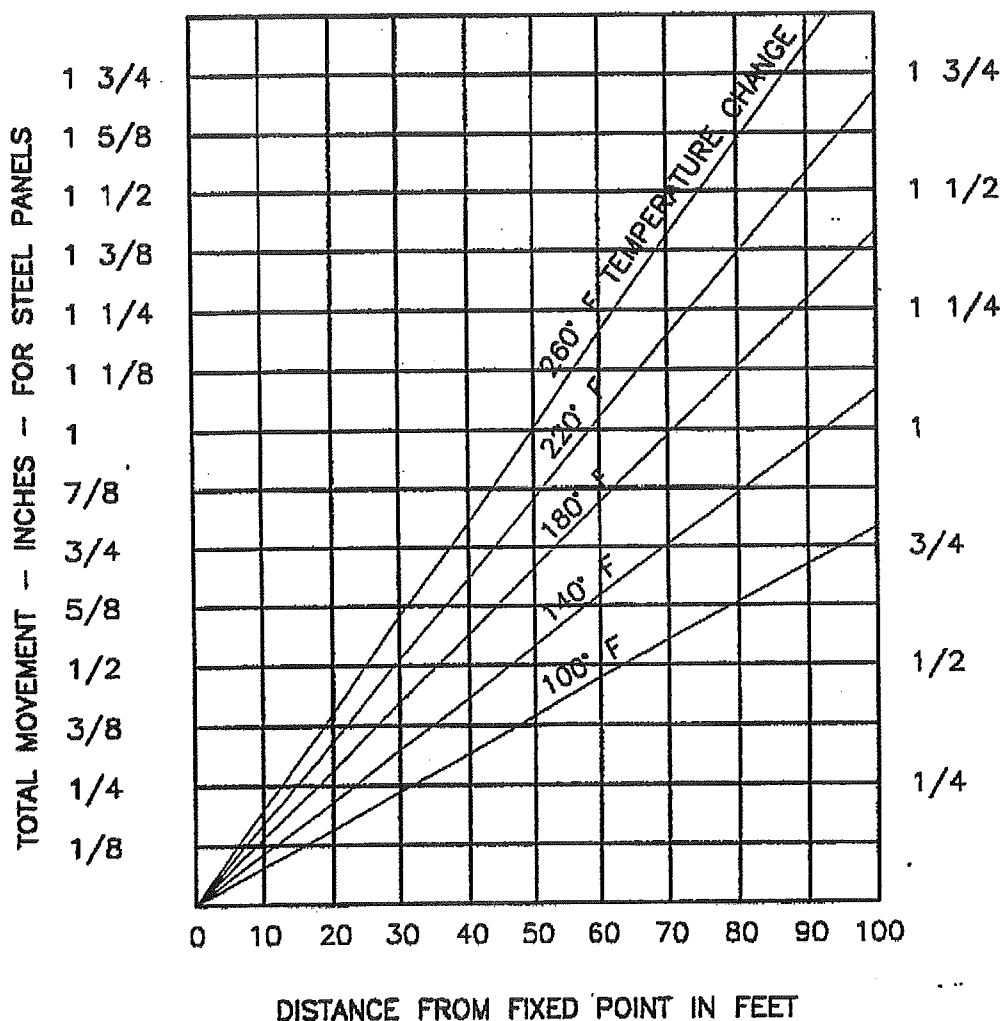
**INSTALLATION INSTRUCTIONS
STRUCTURAL PROPERTIES**

ZEE-LOCK PANEL

DATE: 04-01-97

PAGE \ FILE

ZI-7



EXPANSION AND CONTRACTION OF METAL PANELS OVER 30 FEET IN LENGTH, DUE TO LONGITUDINAL THERMAL MOVEMENT, MUST BE CONSIDERED IN BOTH DESIGN AND INSTALLATION. THE ABOVE CHART EMPHASIZES THE NEED TO PROVIDE AMPLE CLEARANCES FOR 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.

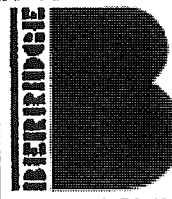
DATE: 04-01-97

INSTALLATION INSTRUCTIONS NOMINAL LINEAR EXPANSION

PAGE \ FILE

ZI-8

ZEE-LOCK PANEL



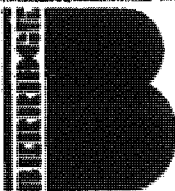
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THE DETAILS CONTAINED IN THE FOLLOWING PAGES ARE MERELY RECOMMENDATIONS AS TO HOW BERRIDGE MANUFACTURING MATERIALS SHOULD BE INSTALLED. THEY MAY REQUIRE ADAPTATIONS OR MODIFICATIONS FOR A SPECIFIC PROJECT AS CONDITIONS VARY IN BOTH BUILDING DESIGN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



Berridge
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Roofs of Distinction

INTRODUCTION TO TYPICAL DETAILS

ZEE-LOCK PANEL

DATE: 04-01-97

PAGE\FILE

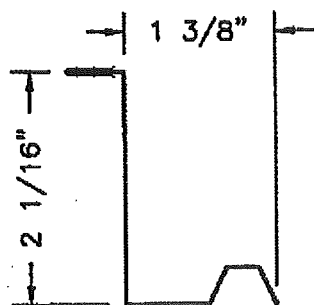
Z-3

BERRIDGE ZEE-LOCK PANEL

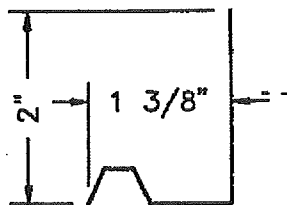
CONTINUOUS FACTORY
APPLIED VINYL WEATHER
SEAL (OPTIONAL)
US PATENT NO.
5,134,825

CONTINUOUS ZEE-RIB

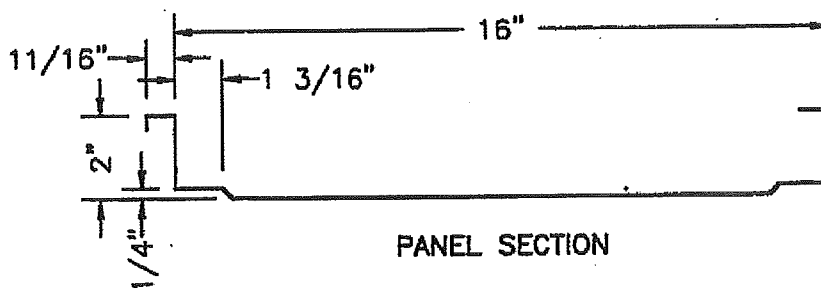
FASTENERS; 2 AT EVERY PURLIN FOR
OPEN FRAMING CONDITIONS 2 FASTENERS
36" O.C. MAX. FOR SOLID SHEATHING



CONTINUOUS ZEE-RIB
WITH FACTORY APPLIED
VINYL WEATHER SEAL



PANEL SUPPORT



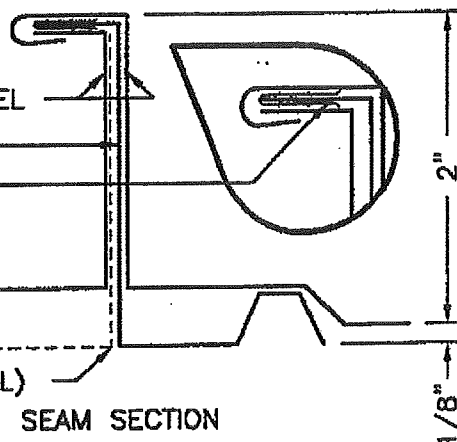
PANEL SECTION

BERRIDGE ZEE-LOCK PANEL

CONTINUOUS ZEE-RIB

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

PANEL SUPPORT (OPTIONAL)



SEAM SECTION

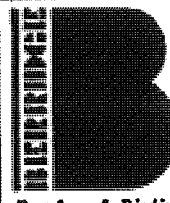
DATE: 04-01-97

PAGE\FILE

Z-4

OVERVIEW
CONTINUOUS ZEE-RIB
WITH VINYL WEATHERSEAL

ZEE-LOCK PANEL



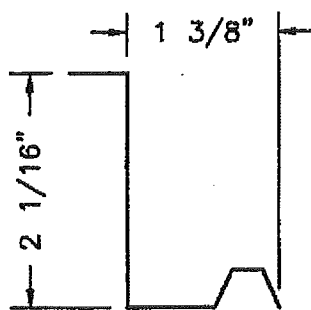
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Roofs of Distinction

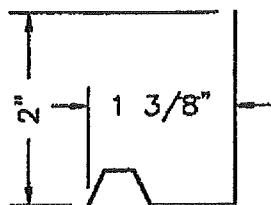
BERRIDGE ZEE-LOCK PANEL

ZEE-LOCK CLIP; 36" O.C.
MAX. FOR SOLID SHEATHING
CONDITIONS OR ZEE-LOCK
CLIP AT EVERY PURLIN
FOR OPEN FRAMING
CONDITION

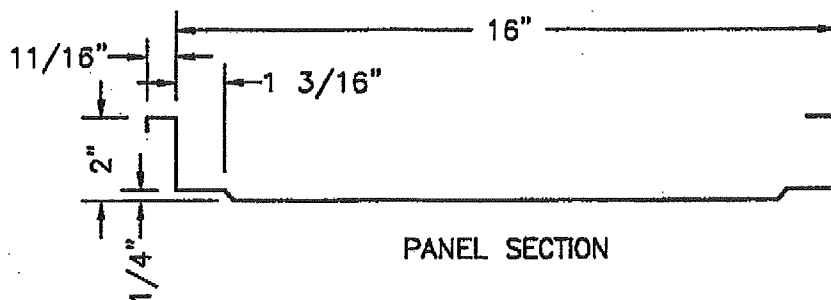
2 FASTENERS PER CLIP



ZEE-LOCK CLIP



PANEL SUPPORT



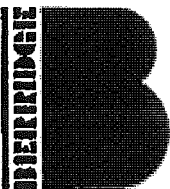
PANEL SECTION

BERRIDGE ZEE-LOCK PANEL

ZEE-LOCK CLIP

PANEL SUPPORT (OPTIONAL)

SEAM ASSEMBLY USING ZEE-LOCK CLIPS. FOR
ASSEMBLY USING CONTINUOUS RIB SEE DETAIL Z-4



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Roofs of Distinction

OVERVIEW
ZEE-LOCK CLIP

ZEE-LOCK PANEL

DATE: 04-01-97

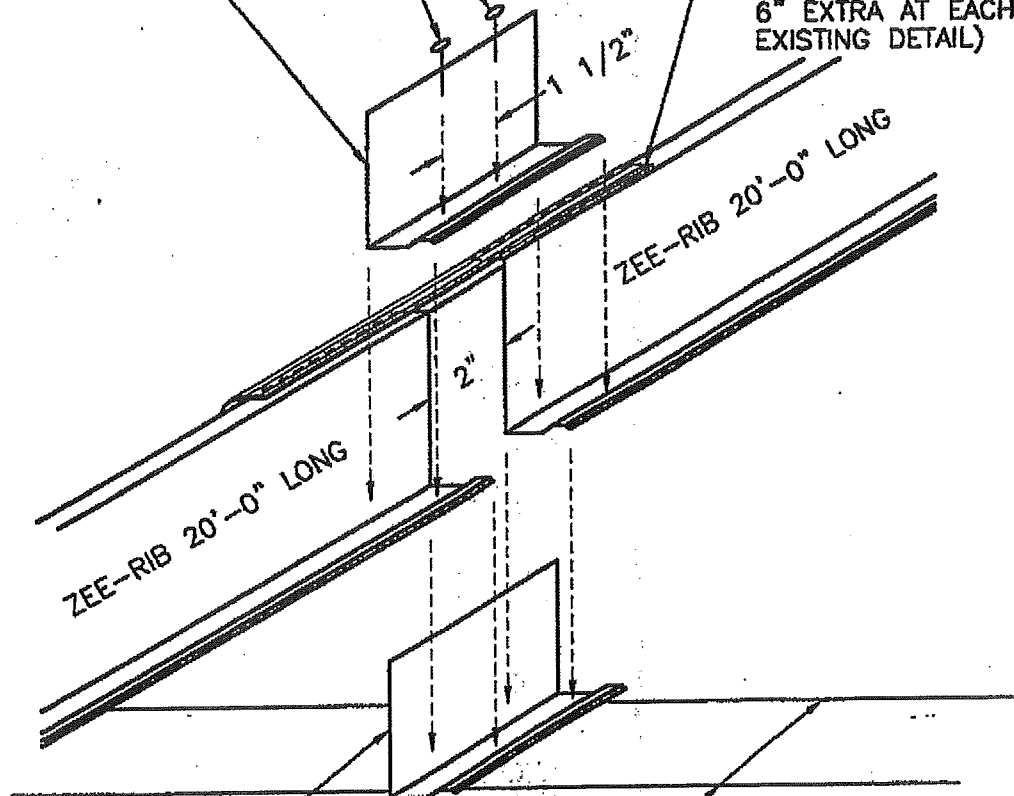
PAGE \ FILE

Z-5

NO. 12 HEX HEAD FASTENERS
ATTACH THROUGH SUPPORT
CLIPS ONLY

TOP SUPPORT CLIP

WHEN USING THE 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

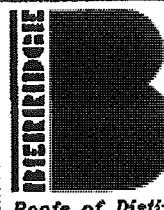
DATE: 04-01-97

EXPANSION JOINT
DETAIL

PAGE\FILE

Z-6

ZEE-LOCK PANEL



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Roofs of Distinction

BERRIDGE ZEE-LOCK PANEL

CONTINUOUS ZEE-RIB WITH 2 FASTENERS AT EVERY PURLIN OR
ZEE-LOCK CLIP AT EVERY PURLIN WITH 2 FASTENERS PER CLIP.

30 FELT UNDERLAYMENT

CONTINUOUS ZEE PURLIN

INSULATING MATERIAL

CORRUGATED METAL DECK

STRUCTURAL MEMBER

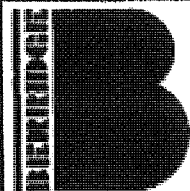
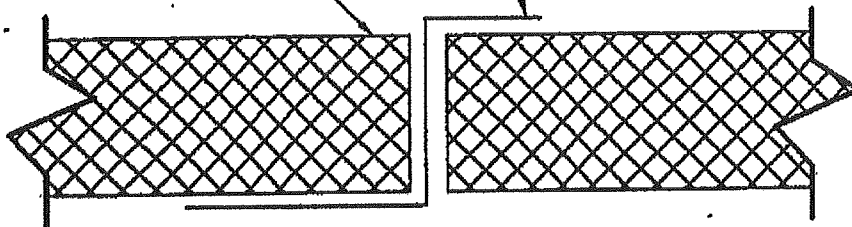
SEE PURLIN DETAIL BELOW

SEE NOTE NO. 3

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



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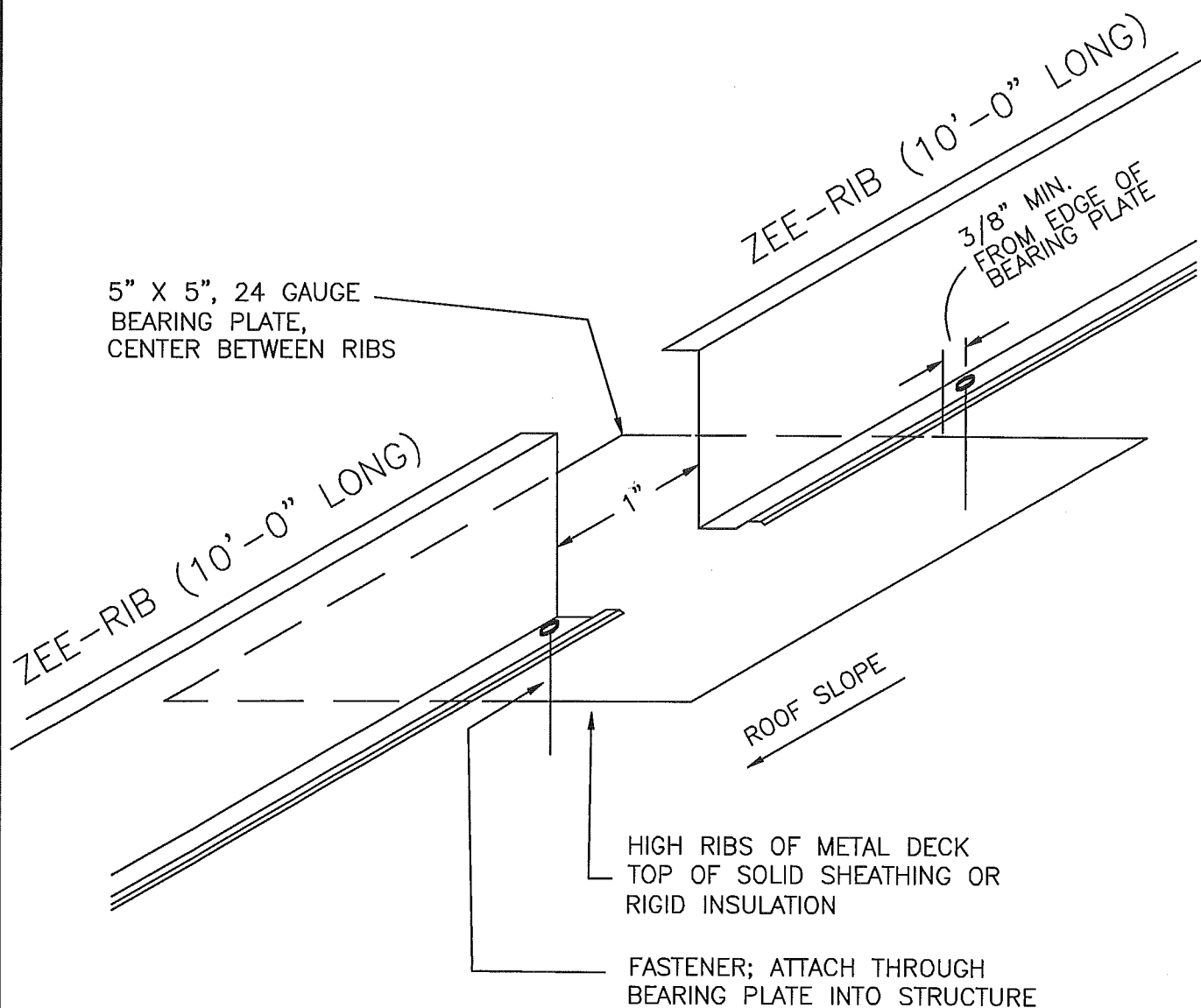
INSULATED DECK
DETAIL

ZEE-LOCK PANEL

DATE: 04-01-97

PAGE \ FILE

Z-7



1. ONLY FOR USE WITH 10'-0" ZEE RIB, SEE ALTERNATE DETAIL Z-6 FOR ZEE RIB LONGER THAN 10 FEET.

2. DETAIL USED FOR ZEE-LOCK PANEL WITH OUT VINYL WEATHERSEAL, NOT FOR USE ON PROJECTS REQUIRING A WATERTIGHTNESS WARRANTY.

3. CONSULT BERRIDGE MANUFACTURING FOR FASTENER SPACING.

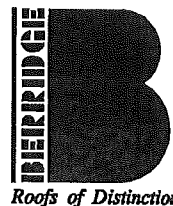
NOT TO SCALE

DATE: 11-6-09

PAGE\FILE
Z-8

10'-0" ZEE-RIB SPLICE
BEARING PLATE DETAIL

ZEE-LOCK PANEL



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BERRIDGE ZEE-LOCK PANEL

CONTINUOUS ZEE-RIB WITH 2 FASTENERS AT EVERY PURLIN OR ZEE-LOCK CLIPS AT EVERY PURLIN WITH 2 FASTENERS PER CLIP

FIELD CUT SEAM AND FORM PAN AROUND EAVE FLASHING

GAP; SEE NOTE 1 BELOW

1/2"

MAXIMUM EXPANSION OF PANEL + 1/2"

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

BERRIDGE WALL PANEL OR FASCIA PANEL

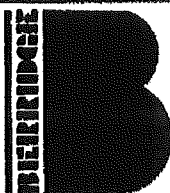
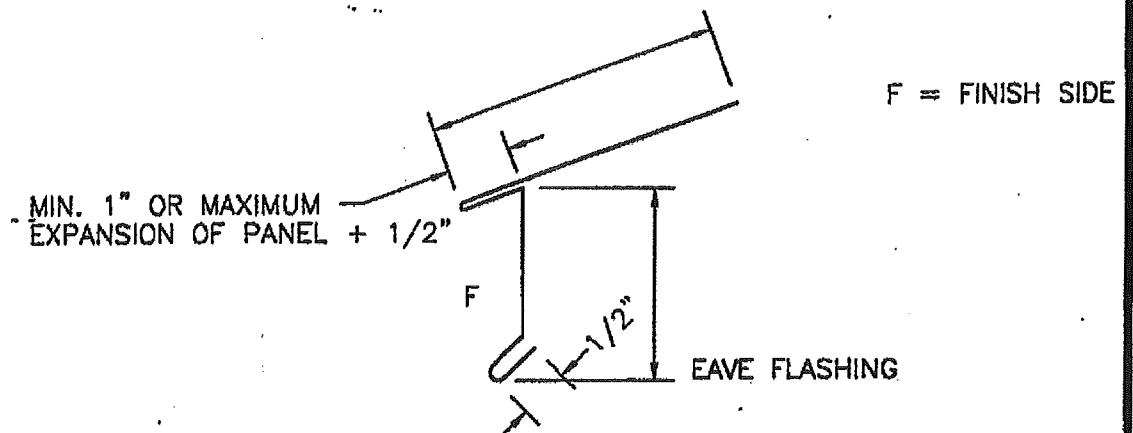
FASTENERS; 20" O.C. MAX.

EAVE STRUT

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 ZI-8.

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

3. SEE ALSO EXPANSION JOINT DETAIL Z-6.



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EAVE DETAIL
PANEL TURNDOWN; OPEN FRAMING

ZEE-LOCK PANEL

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Z-10

CONTINUOUS ZEE-RIB WITH 2 FASTENERS —
36" O.C. OR ZEE-LOCK CLIPS 36" O.C. WITH
2 FASTENERS PER CLIP. TWO CLIPS ARE
REQUIRED AT EAVES.

FIELD CUT SEAM AND
FORM PAN AROUND
EAVE FLASHING

GAP; SEE NOTE 1
BELOW

GAP; SEE NOTE 1
BELOW

MAXIMUM EXPANSION OF
PANEL + 1/2"

30 FELT UNDERLAYMENT

FASTENER: 20" O.C. MAX.

SOLID SHEATHING

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

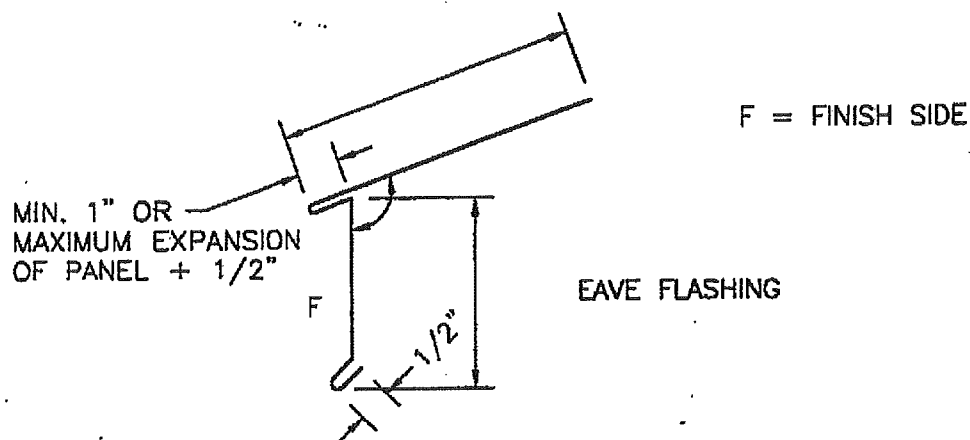
1. THE "GAP" BETWEEN EAVE FLASHING AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PAN MUST BE ENGAGED WITH EAVE FLASHING WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH REFER TO NOMINAL LINEAR EXPANSION CHART PAGE ZI-8.
2. GAP BETWEEN 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 FELT 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 Z-6.

AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

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

4. ALL FELT 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 Z-6.



MIN. 1" OR —
MAXIMUM EXPANSION
OF PANEL + 1/2"

EAVE FLASHING

DATE: 04-01-97

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Z-11

EAVE DETAIL
PANEL TURNDOWN; SOLID SUBSTRATE.

ZEE-LOCK PANEL

RECEIVED

Roofs of Distinction

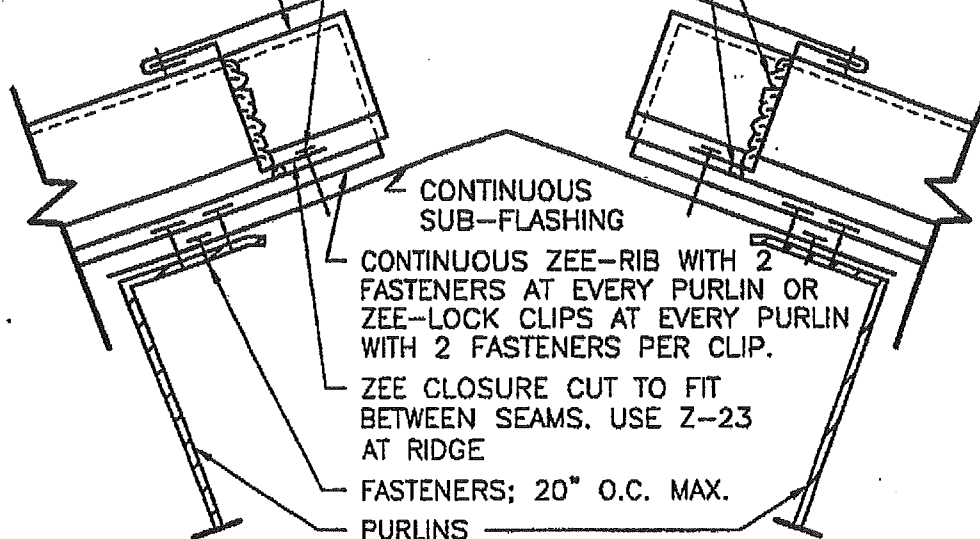
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RIDGE/HIP CAP; 4" END LAPS WITH
CONTINUOUS CAULK AT LAPS. POP
RIVET TO ZEE CLOSURE 40" O.C.

FASTENERS; 2 PER ZEE
CLOSURE, MINIMUM

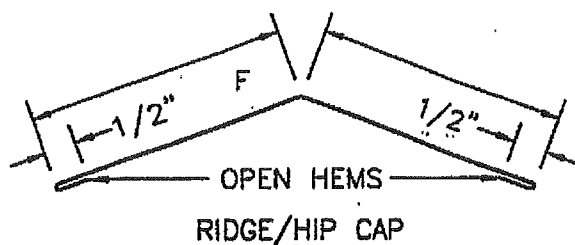
BERRIDGE ZEE-LOCK PANEL

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

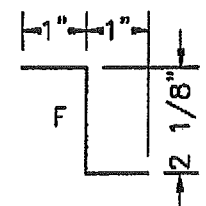
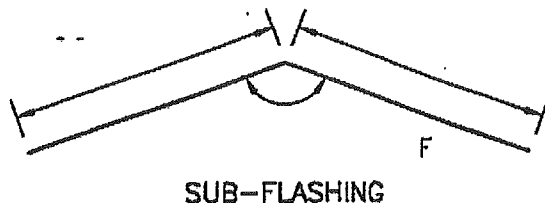


1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS AT HIPS. SEE DETAIL Z-23
FOR RIDGE.

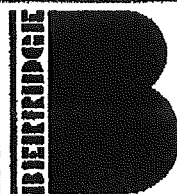
2. ALL CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE
ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



F = FINISH SIDE



ZEE CLOSURE



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RIDGE/HIP DETAIL
OPEN FRAME. CONDITION

ZEE-LOCK PANEL

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Z-20

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

BERRIDGE ZEE-LOCK PANEL

RIDGE/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

ZEE CLOSURE; CUT TO FIT
BETWEEN SEAMS. USE Z-23
AT RIDGE

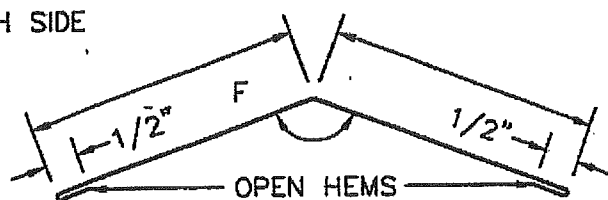
FASTENERS; 2 PER ZEE
CLOSURE MINIMUM

30 FELT UNDERLAYMENT

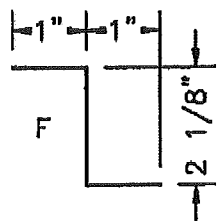
SOLID SHEATHING

1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS AT HIPS. SEE DETAIL Z-23 FOR RIDGE.
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



RIDGE/HIP CAP



ZEE CLOSURE

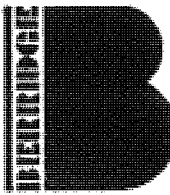
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RIDGE/HIP DETAIL
SOLID SUBSTRATE

ZEE-LOCK PANEL



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

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

ZEE CLOSURE; SEE DETAIL Z-23

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

FASTENERS; MIN. 2 PER ZEE CLOSURE

SOLID SHEATHING

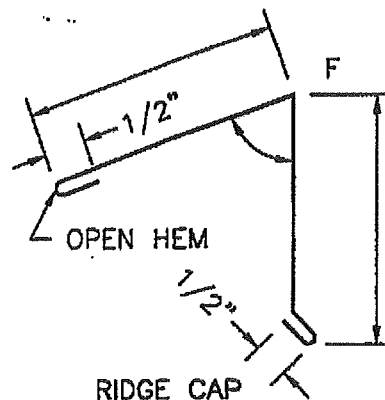
BERRIDGE ZEE-LOCK PANEL

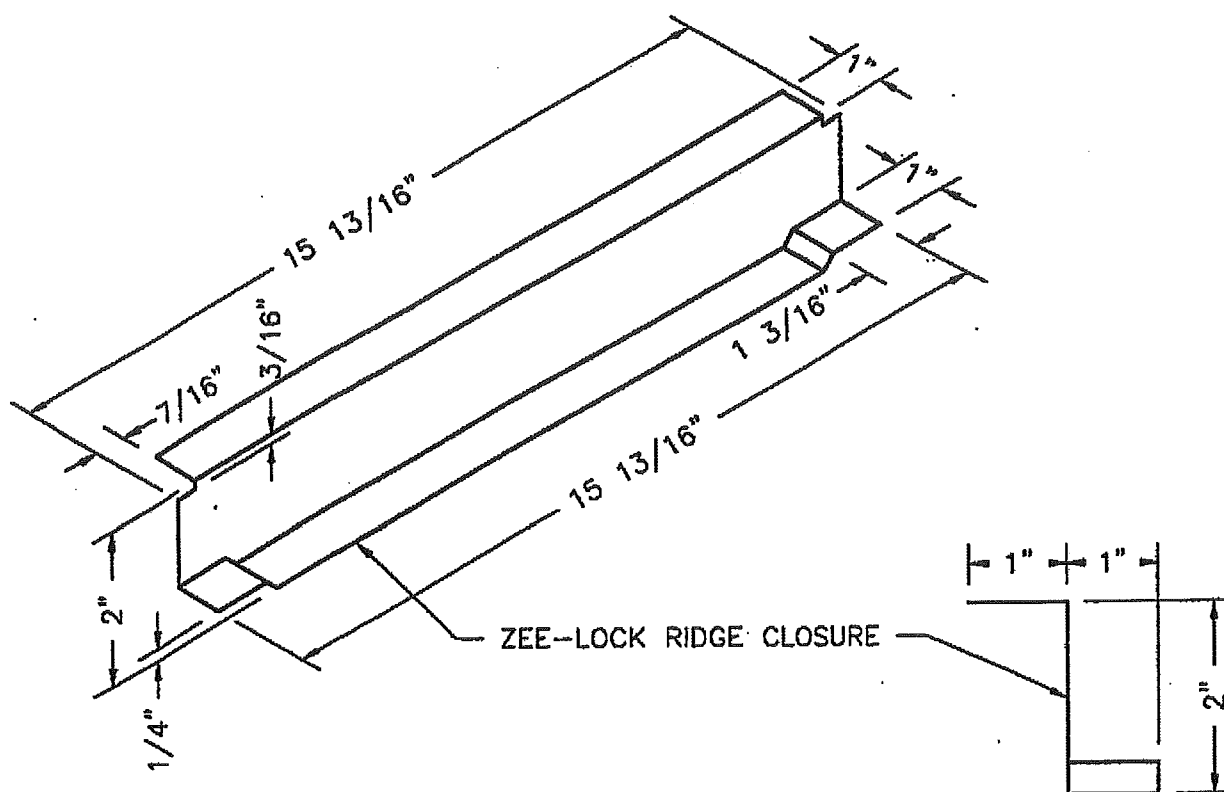
30 FELT UNDERLAYMENT LAP OVER RIDGE

FASTENERS; 40" O.C. CAULK FASTENER HEAD

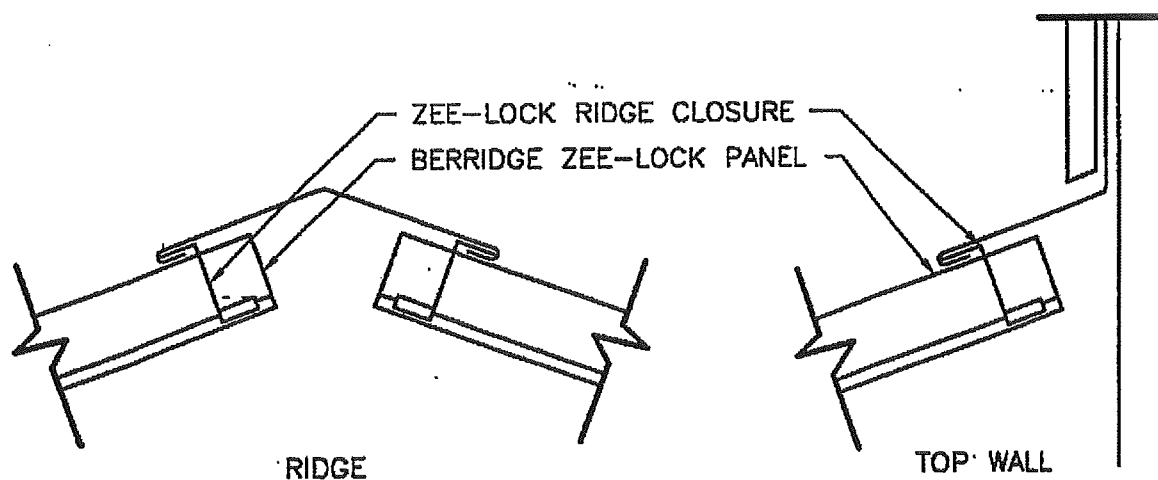
1. SEE DETAIL Z-23 FOR ZEE CLOSURE AT RIDGE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE





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



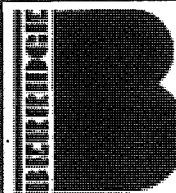
DATE: 04-01-97

PAGE\FILE

Z-23

ZEE-LOCK
RIDGE CLOSURE

ZEE-LOCK PANEL



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Roofs of Distinction

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 ZEE-RIB WITH
2 FASTENERS 36" O.C. OR
ZEE-CLIP 36" O.C. WITH
2 FASTENERS PER CLIP
2 CLIPS ARE REQUIRED AT
END OF PANEL

Z-21

VALLEY FLASHING; 12" LAPS WITH
CONTINUOUS CAULK AT LAPS

30 FELT
UNDERLAYMENT

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

SOLID SHEATHING

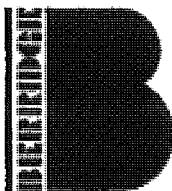
PLAN VIEW

MAIN ROOF
PANELS

RIDGE FLASHING

VALLEY FLASHING

DORMER PANEL



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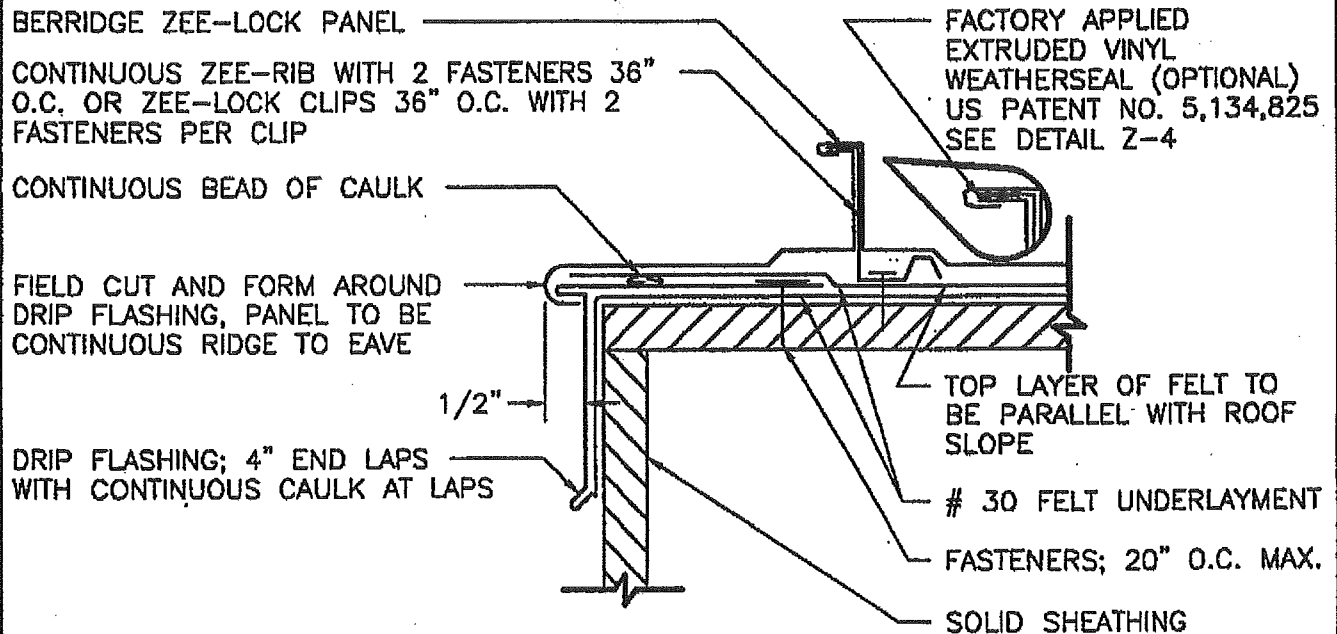
RIDGE TERMINATION
AT DORMER VALLEY

ZEE-LOCK PANEL

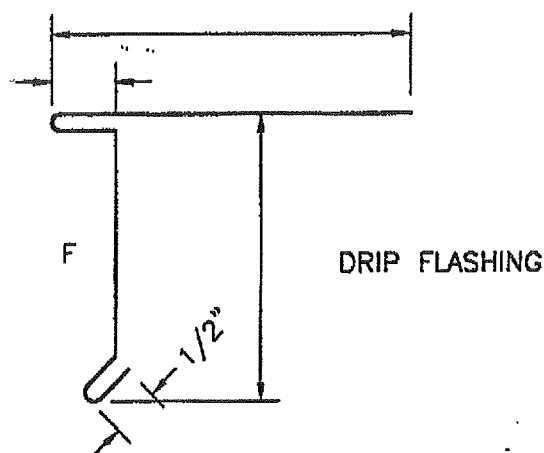
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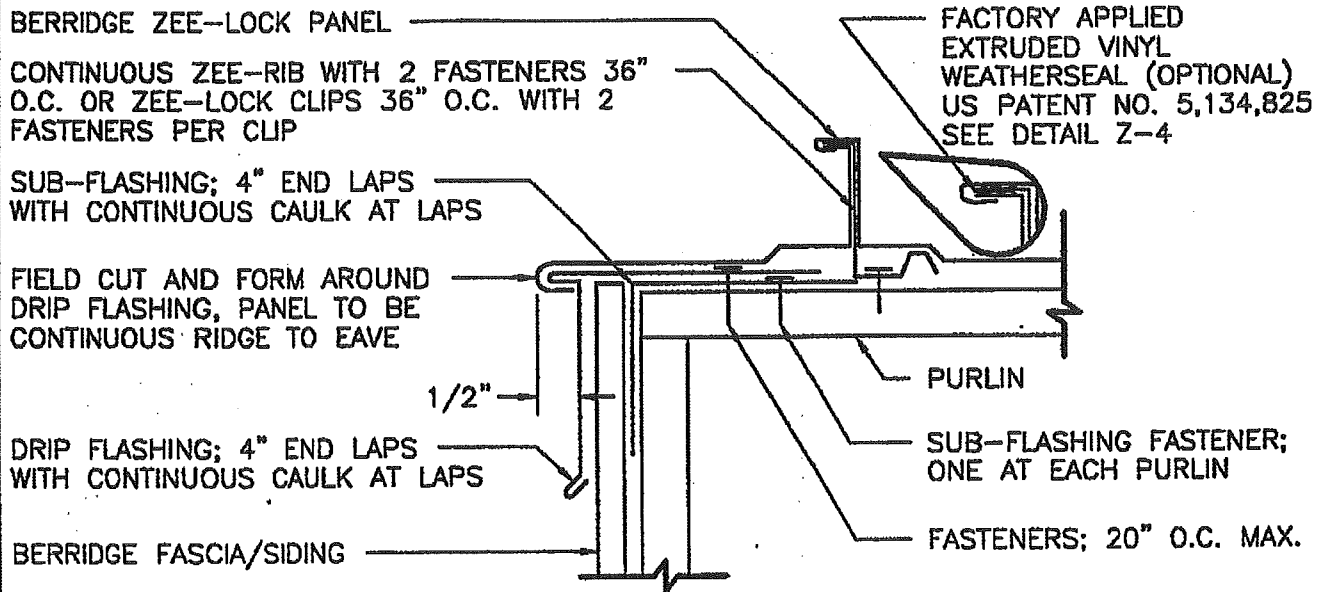
PAGE\FILE

Z-24

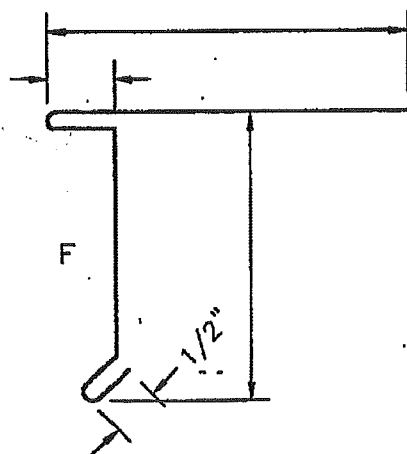


1. FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED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

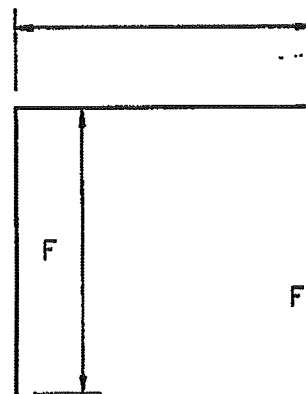




1. FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.



DRIP FLASHING



SUB-FLASHING

F = FINISH SIDE

DATE: 04-01-97

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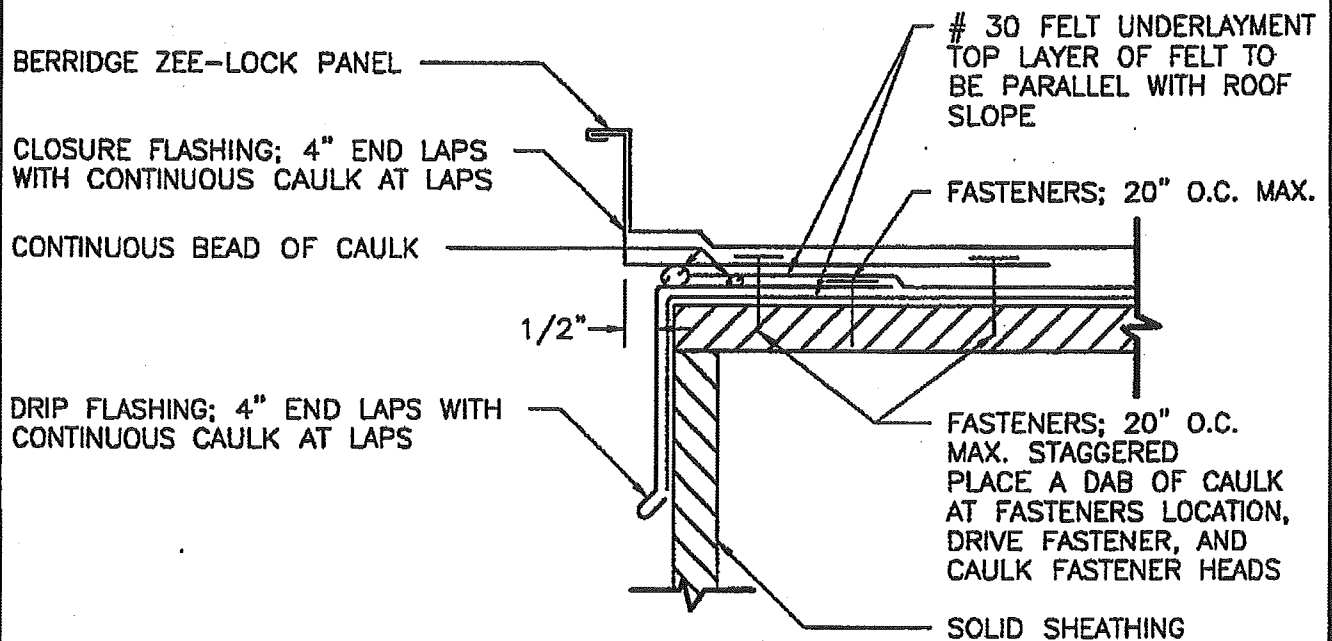
GABLE DETAIL
PANEL TURNDOWN
OPEN FRAMING

ZEE-LOCK PANEL



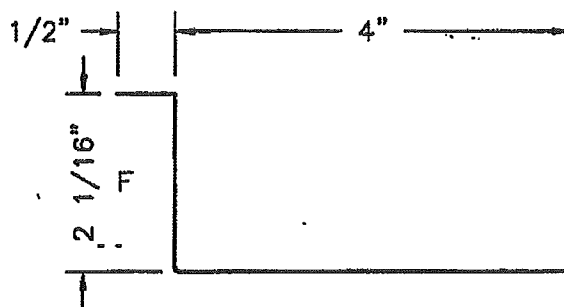
Berridge
Manufacturing
Company

Roofs of Distinction

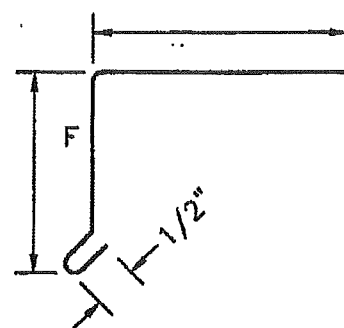


1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
2. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE



CLOSURE FLASHING



DRIP FLASHING

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

BERRIDGE ZEE-LOCK PANEL

FASTENERS; 20" O.C. MAX.

30 FELT UNDERLAYMENT
TOP LAYER OF FELT TO BE
PARALLEL WITH ROOF SLOPE

FASTENERS; 20" O.C. MAX. STAGGERED
PLACE A DAB OF CAULK AT FASTENER LOCATION
DRIVE FASTENER AND CAULK FASTENER HEADS

SOLID SHEATHING

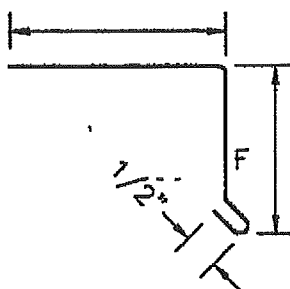
CONTINUOUS BEAD
OF CAULK

1/2"

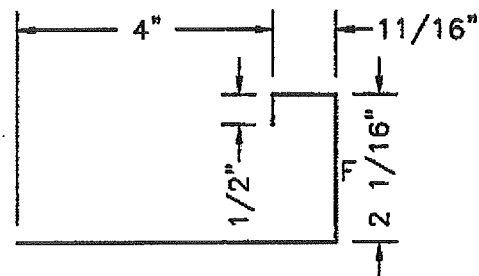
DRIP FLASHING; 4"
END LAPS WITH
CONTINUOUS CAULK
AT LAPS

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



CLOSURE FLASHING

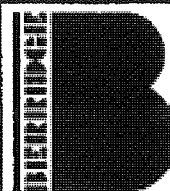
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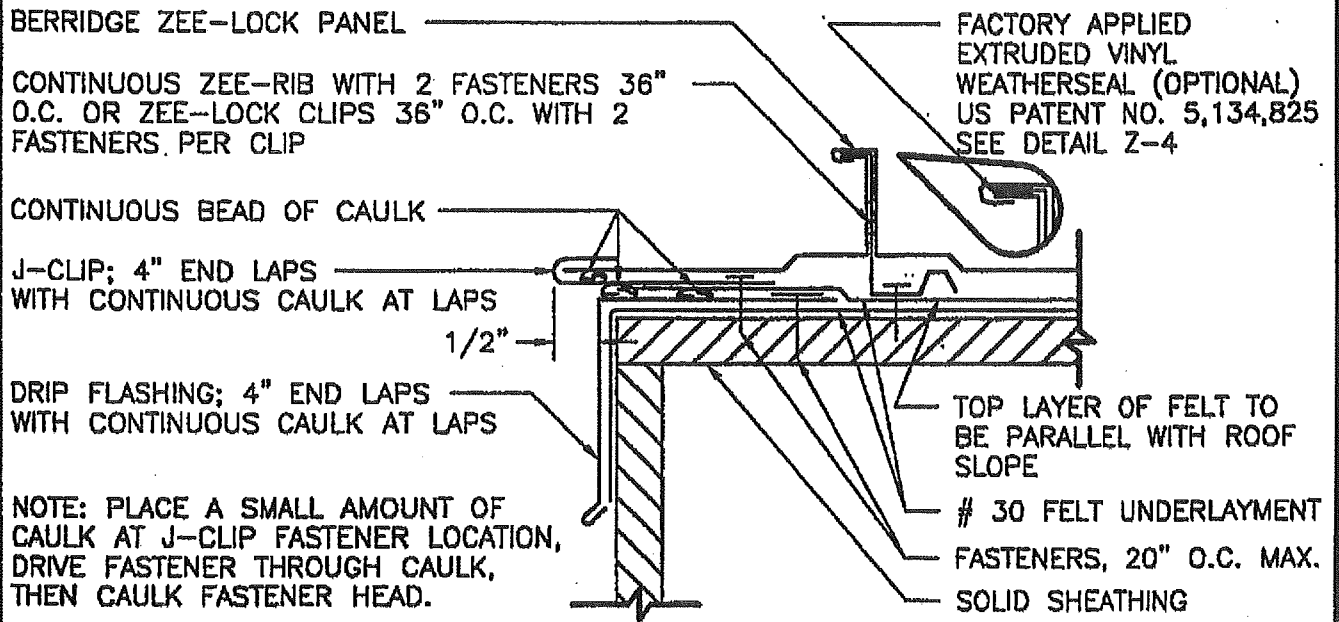
GABLE DETAIL
RIGHT SIDE; CLOSURE FLASHING;
SOLID SUBSTRATE

ZEE-LOCK PANEL



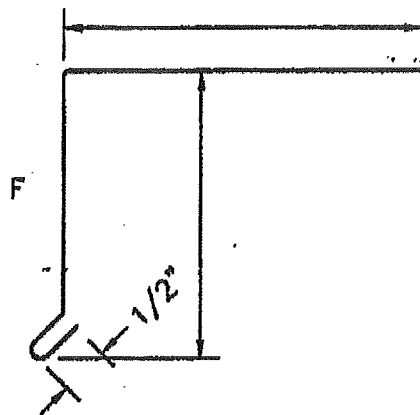
Berridge
Manufacturing
Company

Roofs of Distinction

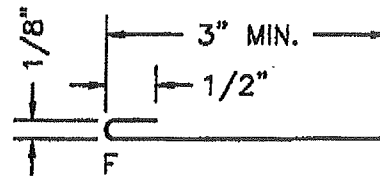


1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE WHEN USING THIS DETAIL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED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

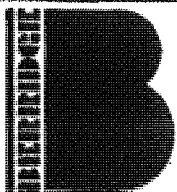
F = FINISH SIDE



DRIP FLASHING



J-CLIP



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GABLE DETAIL
J-CLIP; SOLID SUBSTRATE

ZEE-LOCK PANEL

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BERRIDGE ZEE-LOCK PANEL

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

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

CONTINUOUS BEAD OF CAULK
FASTENERS; MIN. 3 PER
ZEE CLOSURE

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

SPECIAL ZEE CLOSURE;
CUT TO FIT BETWEEN SEAMS
BERRIDGE ZEE-LOCK PANEL

30 FELT UNDERLAYMENT

SOLID SHEATHING

FACTORY APPLIED EXTRUDED
VINYL WEATHERSEAL
(OPTIONAL) US PATENT NO.
5,134,825. SEE DETAIL Z-4

TOP LAYER OF FELT
TO BE PARALLEL
WITH ROOF SLOPE

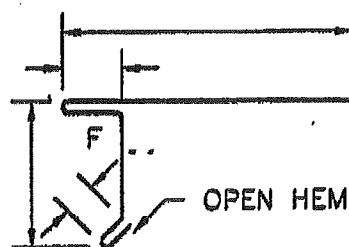
30 FELT UNDERLAYMENT

FASTENERS; 20" O.C.
MAX. STAGGERED

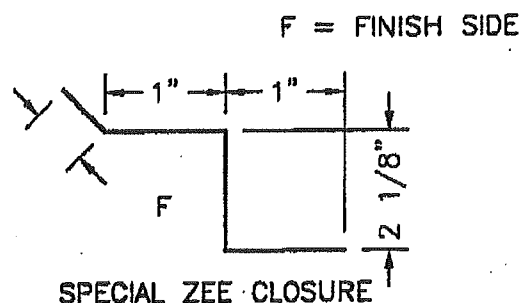
CONTINUOUS BEAD OF CAULK
BETWEEN ZEE CLOSURE, AND
ZEE-LOCK PANEL

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

1. FIELD CUT AND FORM LAST PANEL AROUND GABLE 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 UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



GABLE FLASHING



SPECIAL ZEE CLOSURE

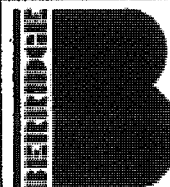
DATE: 04-01-97

GABLE DETAIL

PAGE \ FILE

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ZEE-LOCK PANEL



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BERRIDGE ZEE-LOCK PANEL

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

FIELD CUT LAST PANEL AND FORM AROUND
DRIP FLASHING (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

BERRIDGE FASCIA PANEL

30 FELT UNDERLAYMENT

SOLID SHEATHING

FACTORY APPLIED EXTRUDED
VINYL WEATHERSEAL
(OPTIONAL) US PATENT NO.
5,134,825. SEE DETAIL Z-4

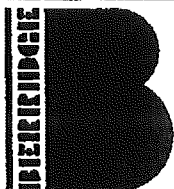
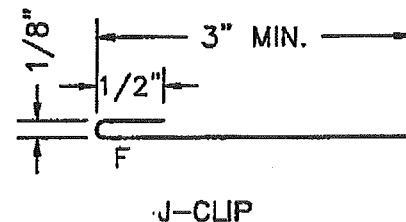
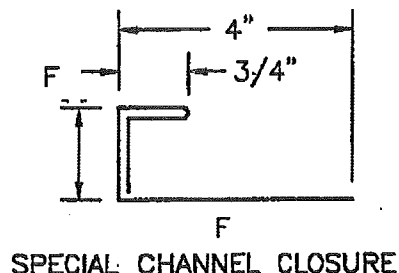
TOP LAYER OF FELT
TO BE PARALLEL
WITH ROOF SLOPE

30 FELT UNDERLAYMENT

FASTENERS; 20" O.C. MAX.
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 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.

F = FINISH SIDE



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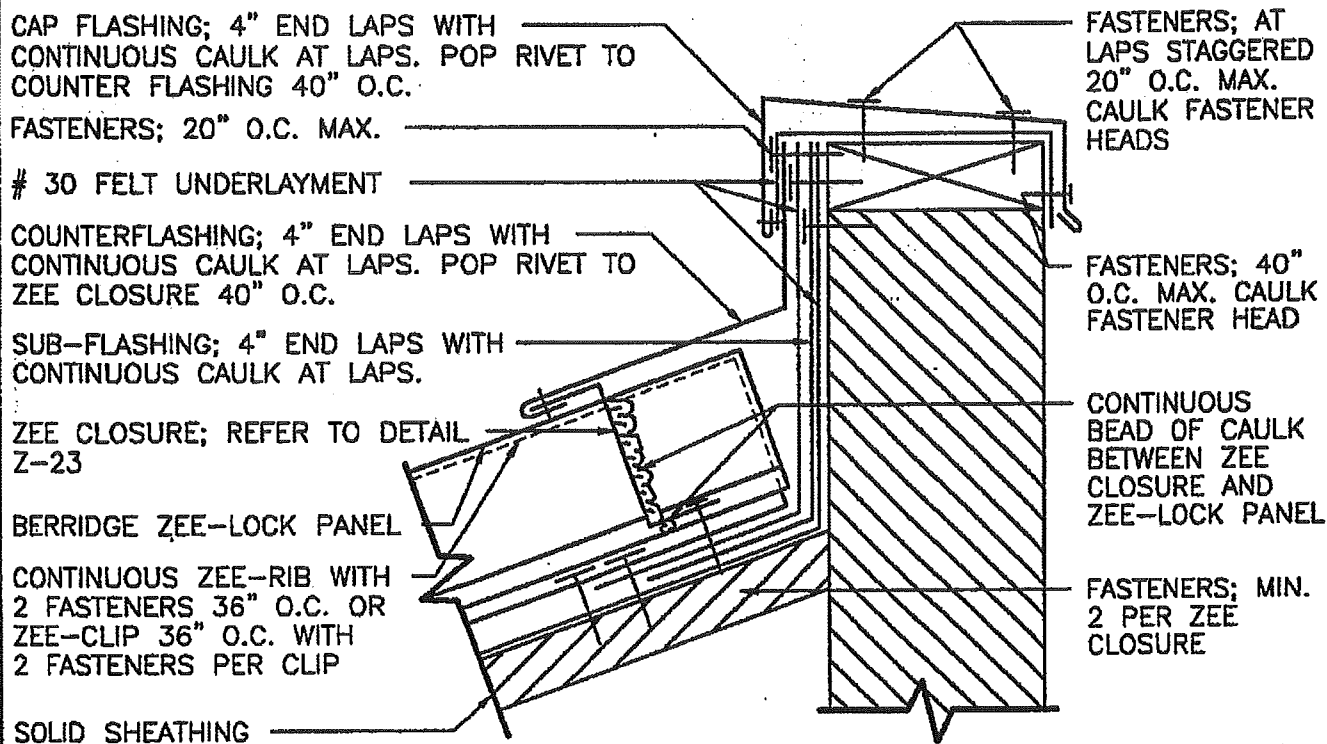
GABLE DETAIL

ZEE-LOCK PANEL

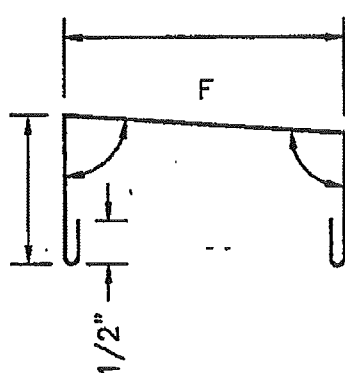
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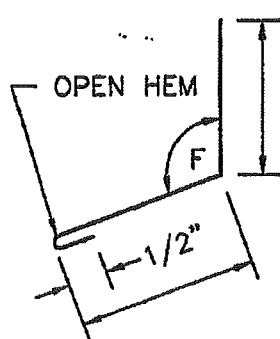
Z-36



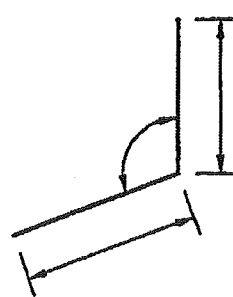
1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANEL SEAMS ARE NOT PERPENDICULAR TO WALL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED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



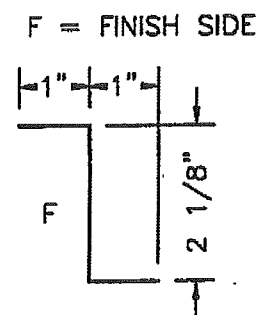
CAP FLASHING



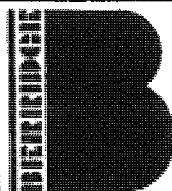
COUNTERFLASHING



SUB-FLASHING



ZEE CLOSURE



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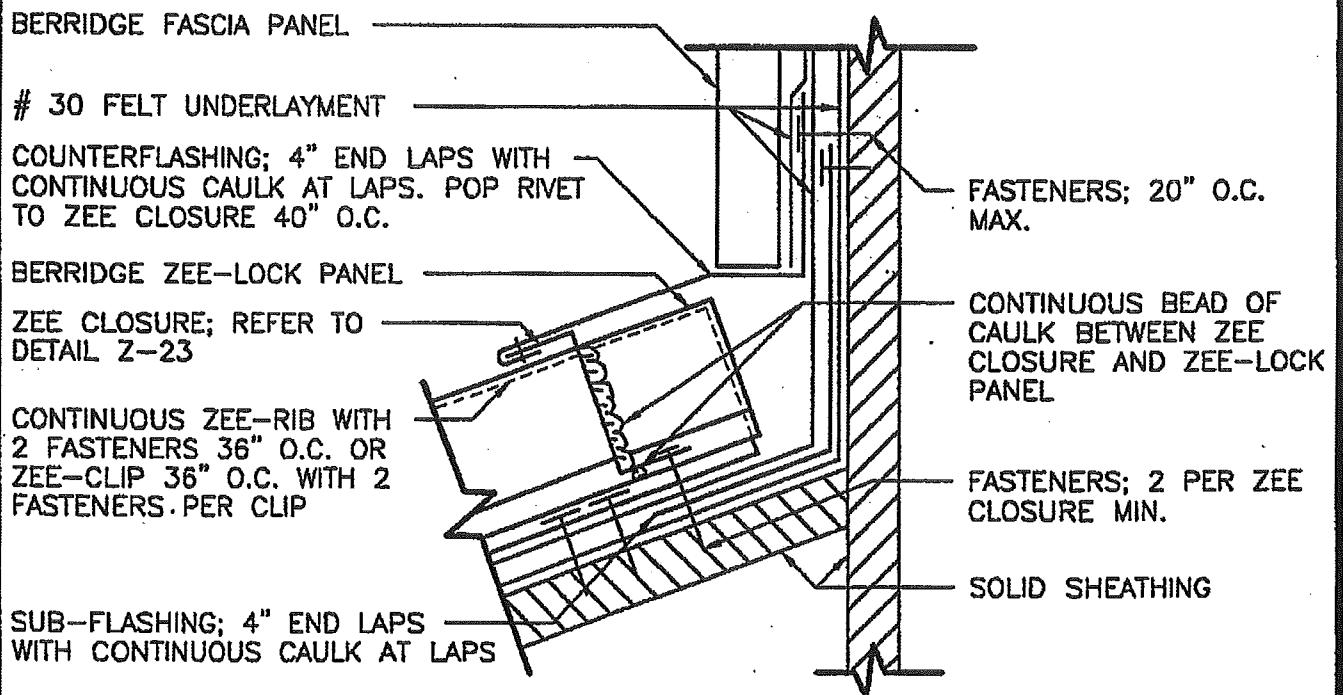
PARAPET DETAIL
SOLID SUBSTRATE

ZEE-LOCK PANEL

DATE: 04-01-97

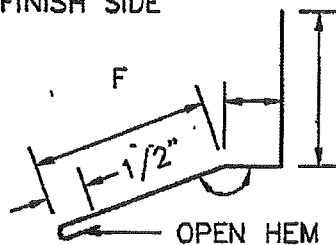
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Z-40

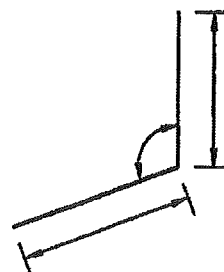


1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANEL SEAMS ARE NOT PERPENDICULAR TO WALL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
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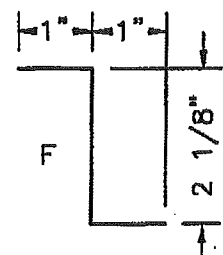
F = FINISH SIDE



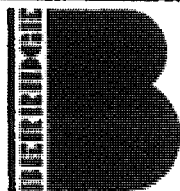
COUNTERFLASHING



SUB-FLASHING



ZEE CLOSURE



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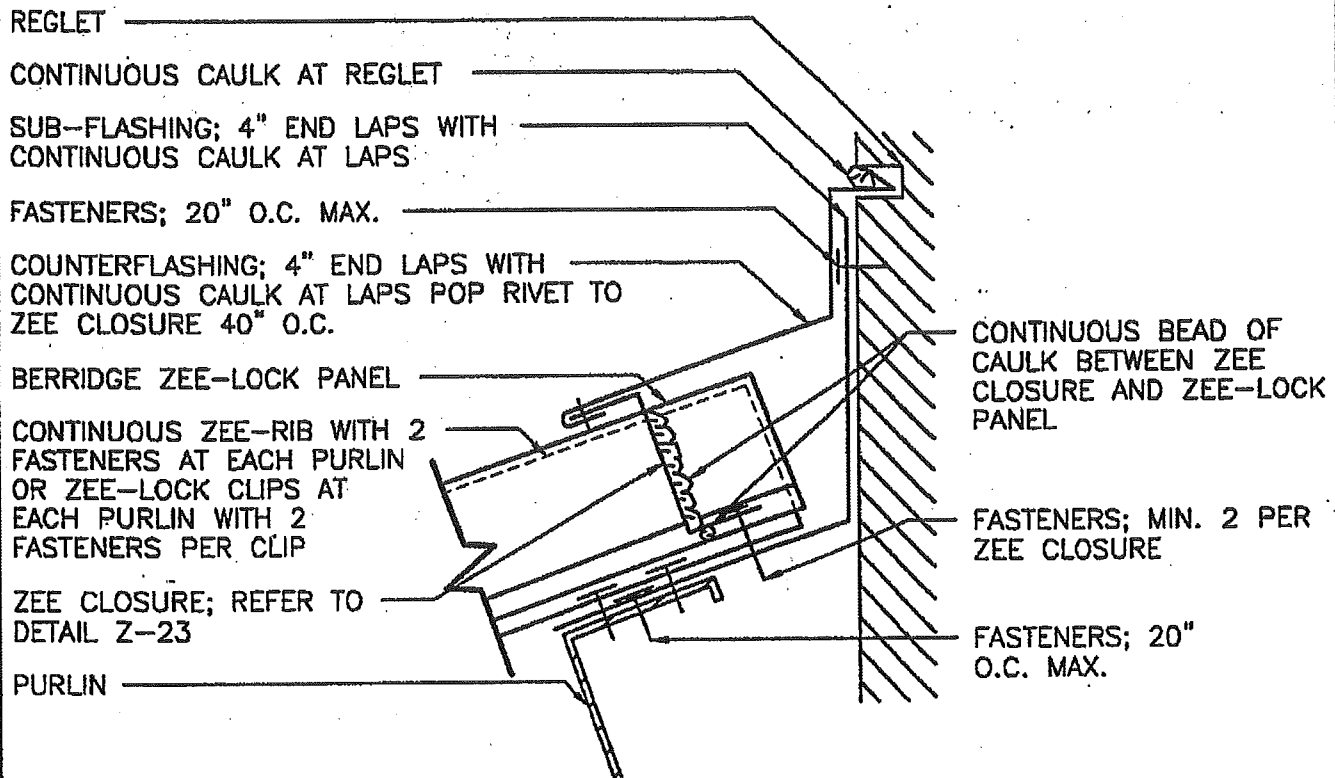
HEAD WALL DETAIL
SOLID SUBSTRATE

ZEE-LOCK PANEL

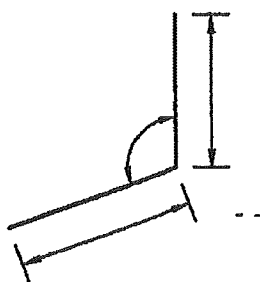
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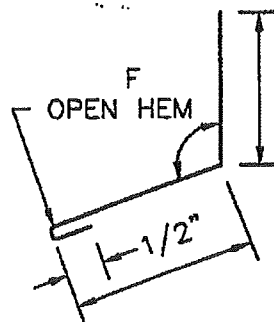
Z-50



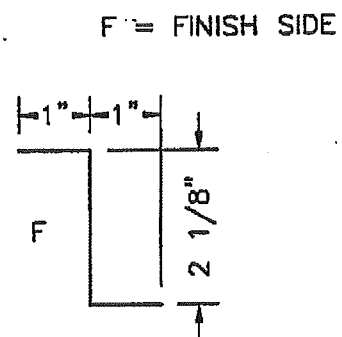
1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS IF PANEL SEAMS ARE NOT PERPENDICULAR TO WALL.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER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



SUB-FLASHING



COUNTERFLASHING



ZEE CLOSURE

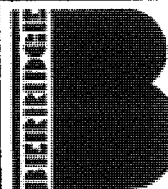
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Z-51

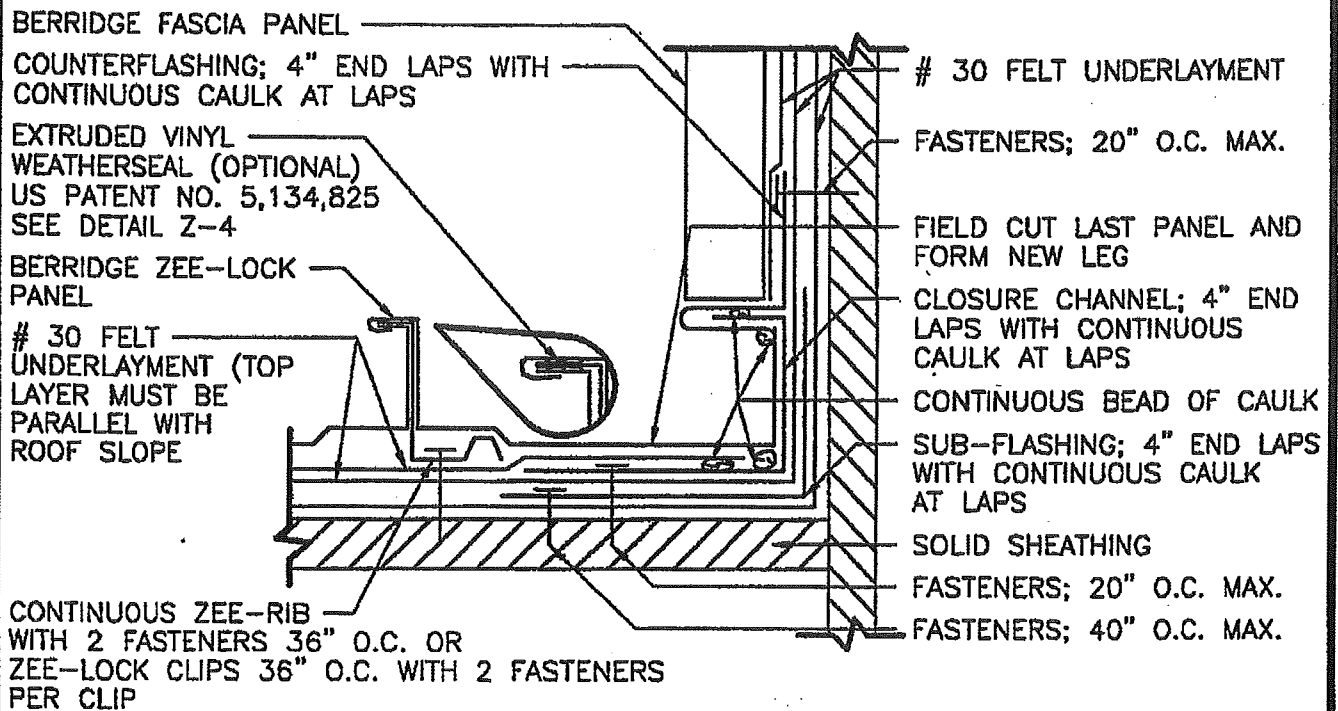
HEAD WALL DETAIL
OPEN FRAMING

ZEE-LOCK PANEL



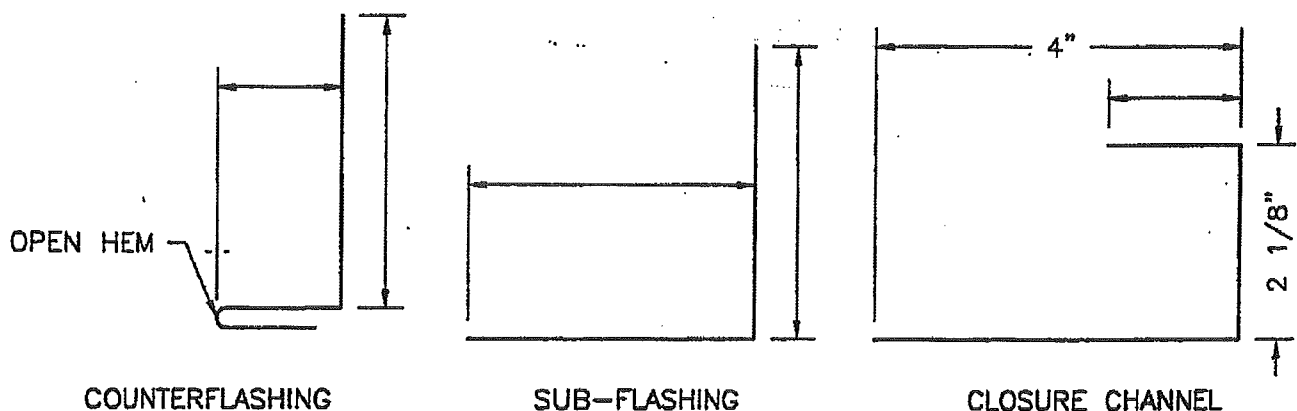
Berridge
Manufacturing
Company

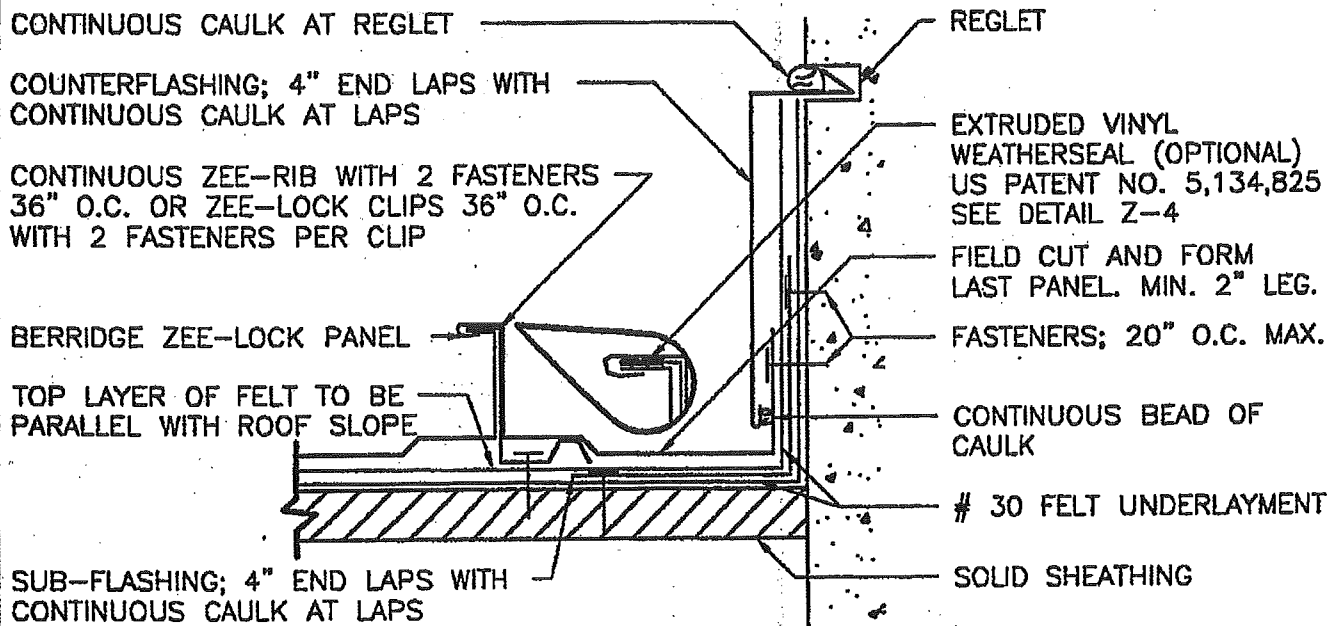
Roofs of Distinction



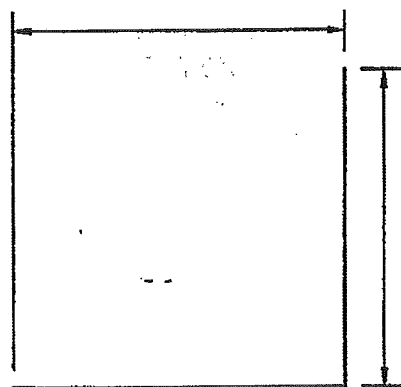
1. FIELD CUT AND FORM LAST PANEL. PANEL TO BE CONTINUOUS FROM RIDGE TO EAVE. SEE DETAIL Z-54 FOR CONDITION AT EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE

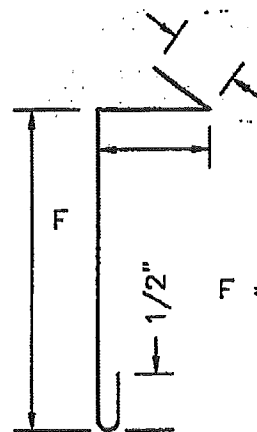




1. FIELD CUT LAST PANEL AND FORM NEW LEG. PANEL TO BE CONTINUOUS FROM RIDGE TO EAVE.
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING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



SUB-FLASHING



COUNTERFLASHING

F = FINISH SIDE

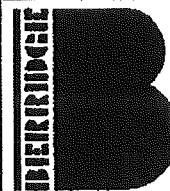
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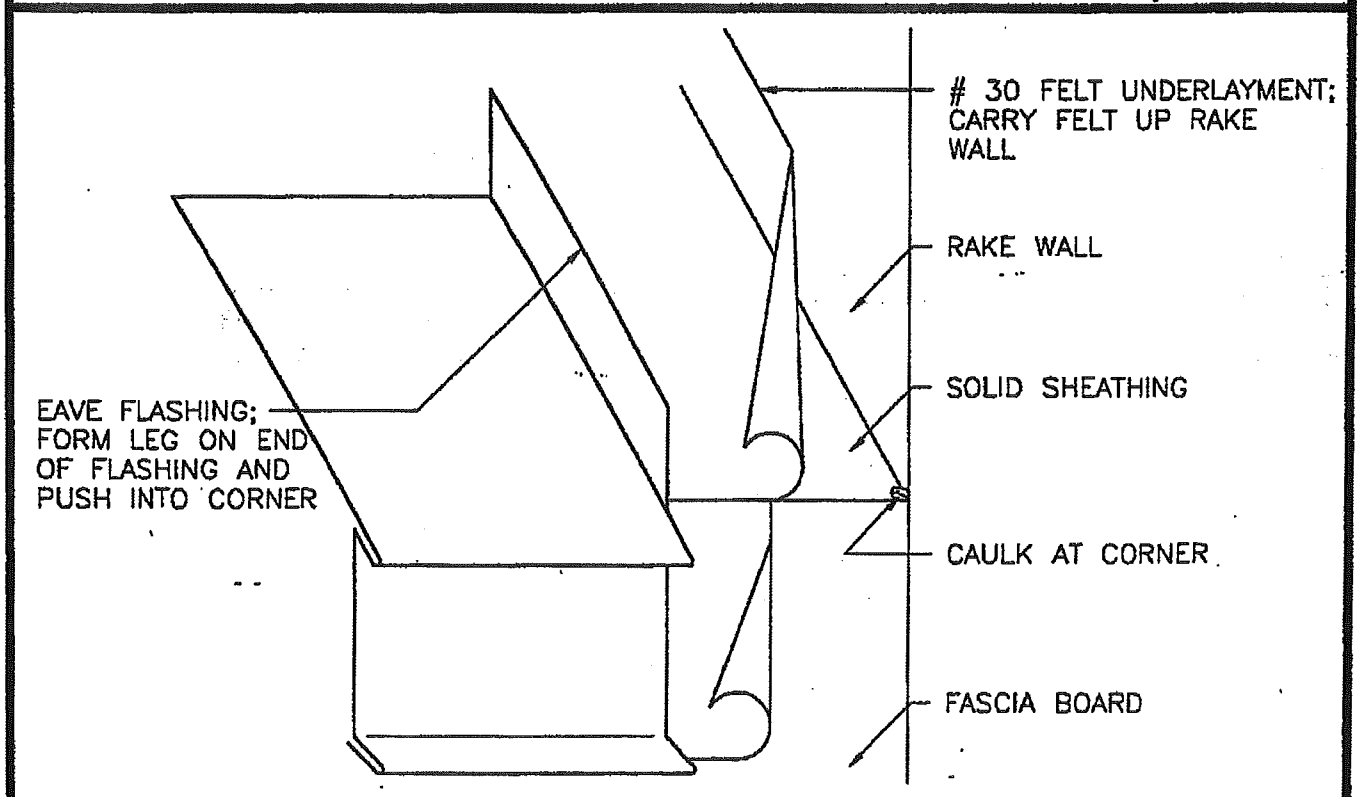
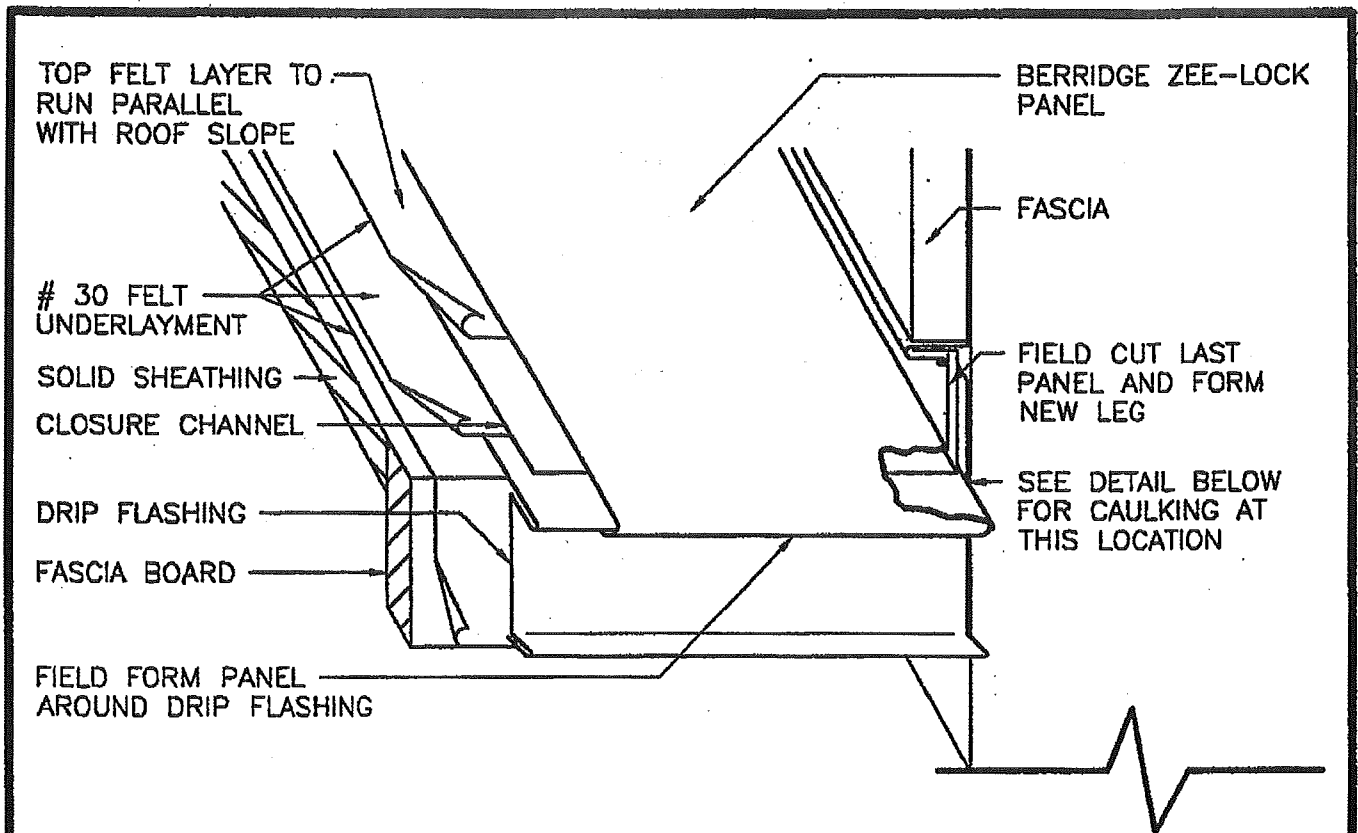
RAKE WALL DETAIL
REGLET
SOLID SUBSTRATE

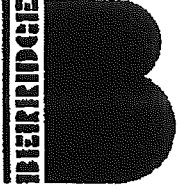
ZEE-LOCK PANEL



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Roofs of Distinction



 <p>Berridge Manufacturing Company</p> <p><i>Roofs of Distinction</i></p>	<p>RAKE AT EAVE</p> <p>USE THIS DETAIL AT RAKE DETAILS, Z-52 AND Z-53</p>	<p>DATE: 04-01-97</p>
		<p>PAGE \ FILE</p> <p>Z-54</p>
	<p>ZEE-LOCK PANEL</p>	

BERRIDGE ZEE-LOCK PANEL

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

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

30 FELT
UNDERLAYMENT

FASTENERS; 20" O.C.
MAX.

SOLID SHEATHING

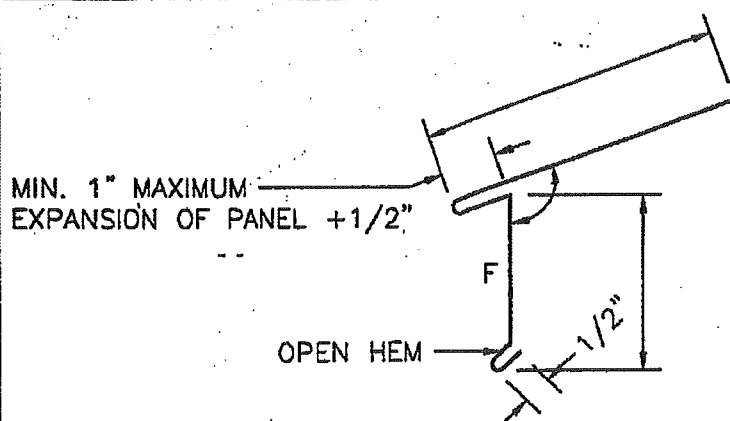
FASTENERS; MIN. 3
PER CLOSURE

30 FELT
UNDERLAYMENT

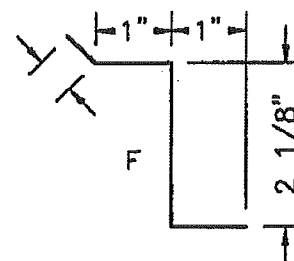
ZEE-LOCK PANEL

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

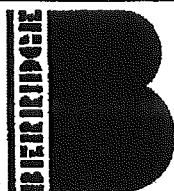
F = FINISH SIDE



EAVE FLASHING



SPECIAL ZEE CLOSURE



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ROOF TO FASCIA TRANSITION
COUNTER FLASHING
SOLID SUBSTRATE

ZEE-LOCK PANEL

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BERRIDGE ZEE-LOCK PANEL

CONTINUOUS ZEE-RIB WITH 2 FASTENERS 36" O.C.
OR ZEE-LOCK CLIPS 36" O.C. WITH 2 FASTENERS PER
CLIP, 2 CLIPS ARE REQUIRED 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; REFER
TO DETAIL Z-23

CAULK RIVET HEADS

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

FASTENERS; 20" O.C.
MAX.

30 FELT
UNDERLAYMENT

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

FASTENERS; 40" O.C.
MAX.

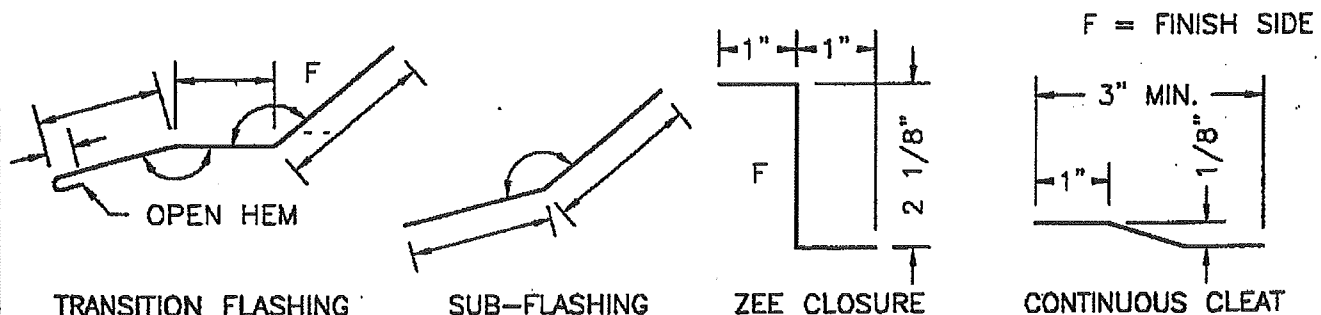
SOLID SHEATHING

FASTENERS; MIN. 2
PER CLOSURE

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. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS. IF PANEL SEAMS ARE NOT PERPENDICULAR.
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.



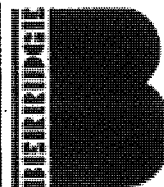
DATE: 04-01-97

SLOPE TRANSITION DETAIL
SOLID SUBSTRATE

PAGE\FILE

Z-61

ZEE-LOCK PANEL



Berridge
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Company

Roofs of Distinction

BERRIDGE ZEE-LOCK PANEL

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

FIELD CUT PANEL SEAM
AND BEND PANEL TO FASCIA.
SEE DETAIL Z-63

ADDITIONAL LEGS
BOTH SIDES OF SEAM.
SEE DETAIL Z-63

USE 2 CLIPS BELOW FLASHING
WITH 2 FASTENERS PER CLIP

ZEE-LOCK CLIP; 36" O.C.
MAX. WITH 2 FASTENERS
PER CLIP

SPECIAL CHANNEL CLOSURE
LEAVE 1/8" GAP BETWEEN
EACH FLASHING SECTION

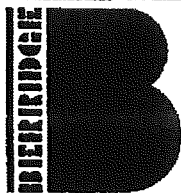
30 FELT UNDERLAYMENT
SOLID SHEATHING

30 FELT UNDERLAYMENT

FASTENERS; 20" O.C. MAX.

EXTEND FASCIA AND
CLOSURE CHANNEL 1/2"
BELOW SOFFIT

1. FIELD CUT SEAM AND BREAK PANEL TO DESIRED ANGLE OF ROOF TO FASCIA.
2. PLACE PANELS ON ROOF, USE THE CONTINUOUS ZEE-RIB OR ZEE-LOCK CLIP ON ROOF
USE ONLY ZEE-LOCK CLIPS ON FASCIA.
3. ONLY ONE SLOPE TRANSITION PER PANEL IS RECOMMENDED. MAXIMUM FASCIA SPAN
FOR OPEN FRAMING IS 3'-0".
4. USE HAND SEAM CRIMPER ON ROOF PANELS AS REQUIRED TO KEEP PANELS IN PLACE.
5. CAULK JOINT BETWEEN PANEL LEGS; SEE DETAIL Z-63.
6. INSTALL ADDITIONAL MALE AND FEMALE LEGS AS SHOWN ON DETAIL Z-63. (THE
ADDITIONAL LEGS CAN BE FIELD FABRICATED OR PURCHASED FROM THE FACTORY).
7. USE HAND SEAM CRIMPER TO SEAM PANEL ON FASCIA THEN MACHINE SEAM ROOF
PANELS.
8. CAULK BETWEEN ROOF PANEL LEGS AND ADDITIONAL LEGS. SEE DETAIL Z-63.



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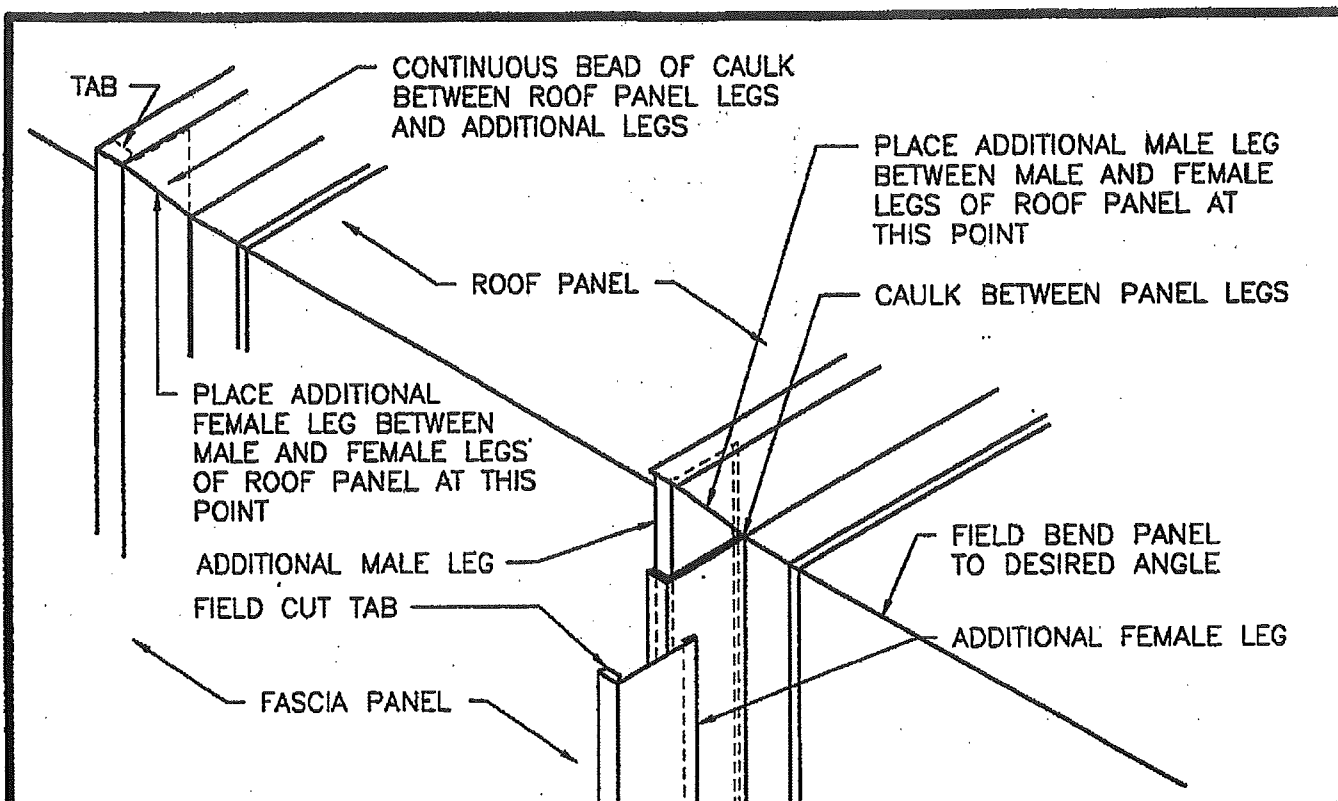
ROOF TO FASCIA TRANSITION
PANEL TURNDOWN
SOLID SUBSTRATE

ZEE-LOCK PANEL

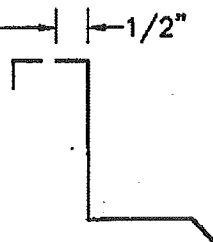
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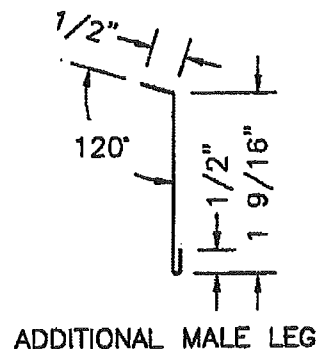
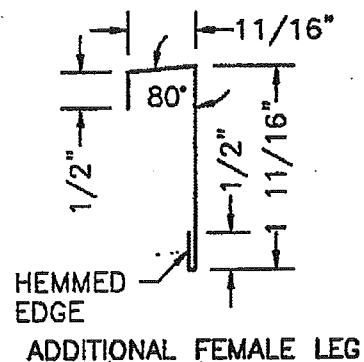
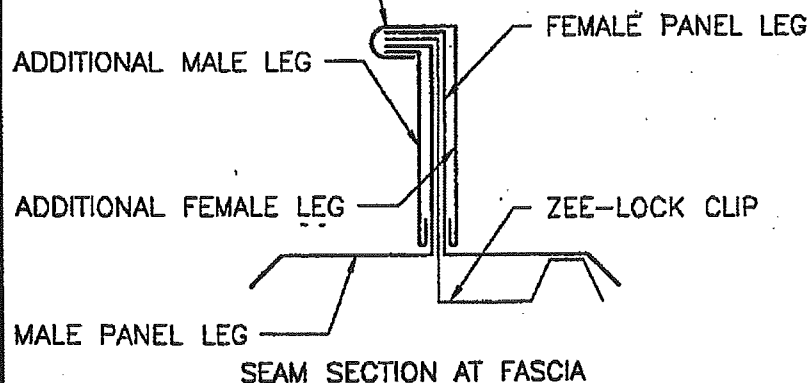
Z-62



FIELD CUT FEMALE LEG OF FASCIA PANEL



USE HAND CRIMPER TO SEAM FASCIA PANEL



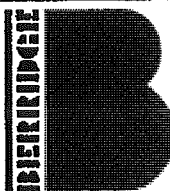
DATE: 04-01-97

ROOF TO FASCIA TRANSITION
PANEL TURNDOWN INSTRUCTIONS

PAGE \ FILE

Z-63

ZEE-LOCK PANEL



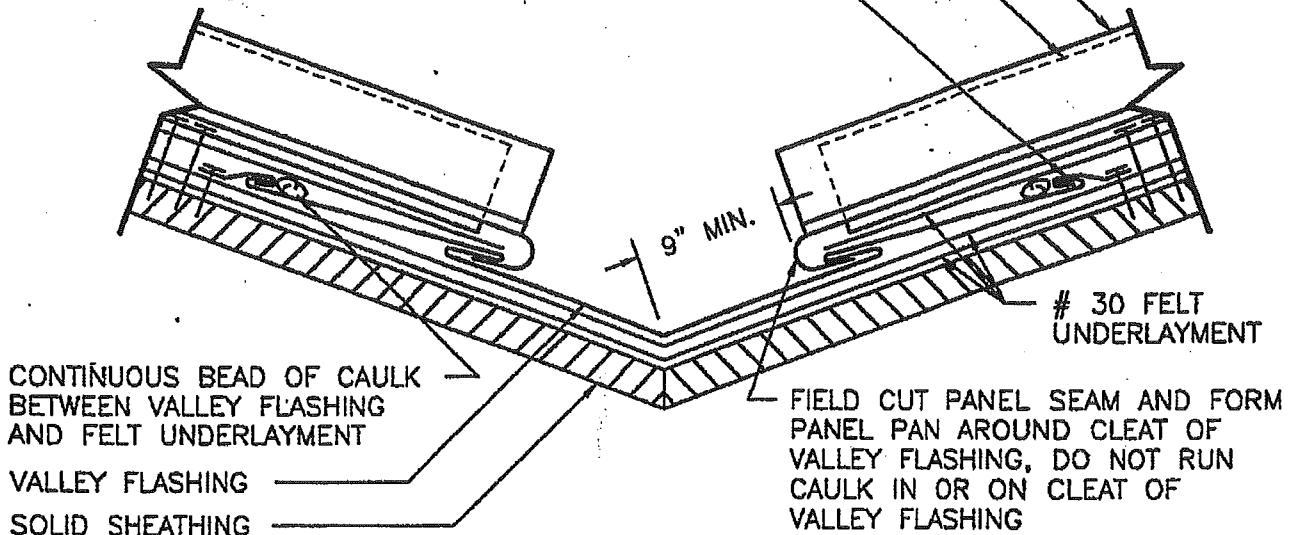
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Roofs of Distinction

BERRIDGE ZEE-LOCK PANEL

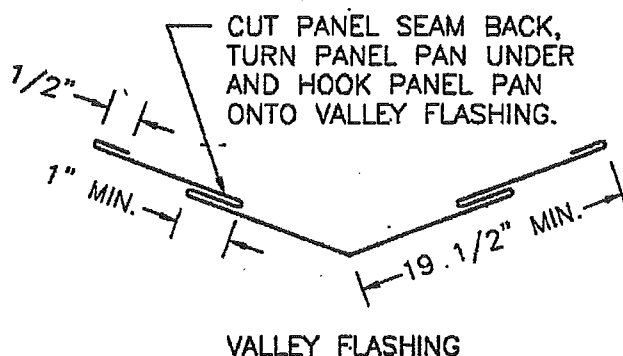
CONTINUOUS ZEE-RIB WITH 2 FASTENERS 36" O.C. OR ZEE-LOCK CLIP 36" O.C. WITH 2 FASTENERS PER CLIP, 2 CLIPS REQUIRED AT END OF PANEL.
DO NOT USE FASTENERS IN VALLEY FLASHING.

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

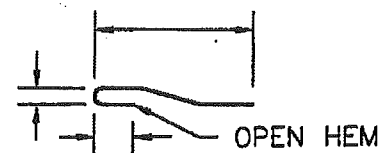


SEE DETAIL Z-71 FOR VALLEY FLASHING LAPPING

1. FOR EXPANSION AND CONTRACTION OF PANELS, SEE ZI-8 AND Z-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 UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



F = FINISH SIDE



BERRIDGE ZEE-LOCK PANEL

ZEE-LOCK CLIP (OR ZEE-RIB)
DO NOT RUN RIB OR CLIP FASTENERS
THRU VALLEY FLASHING START FIRST
FASTENER BEHIND VALLEY FLASHING

CONTINUOUS CLEAT

FIELD CUT PANEL
SEAM AND FORM
PANEL PAN AROUND
CLEAT OF VALLEY
FLASHING

CONTINUOUS BEAD OF CAULK
DO NOT RUN CONTINUOUS CAULK IN
OR UNDER CLEAT OF VALLEY FLASHING
EXCEPT AT VALLEY FLASHING LAPS.

SOLID SHEATHING

VALLEY FLASHING

30 FELT UNDERLAYMENT

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

12" LAP

2 CONTINUOUS BEADS OF CAULK AT LAPS.

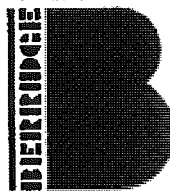
DATE: 04-01-97

VALLEY DETAIL; ISOMETRIC
SOLID SUBSTRATE AND OPEN FRAMING

PAGE\FILE

Z-71

ZEE-LOCK PANEL



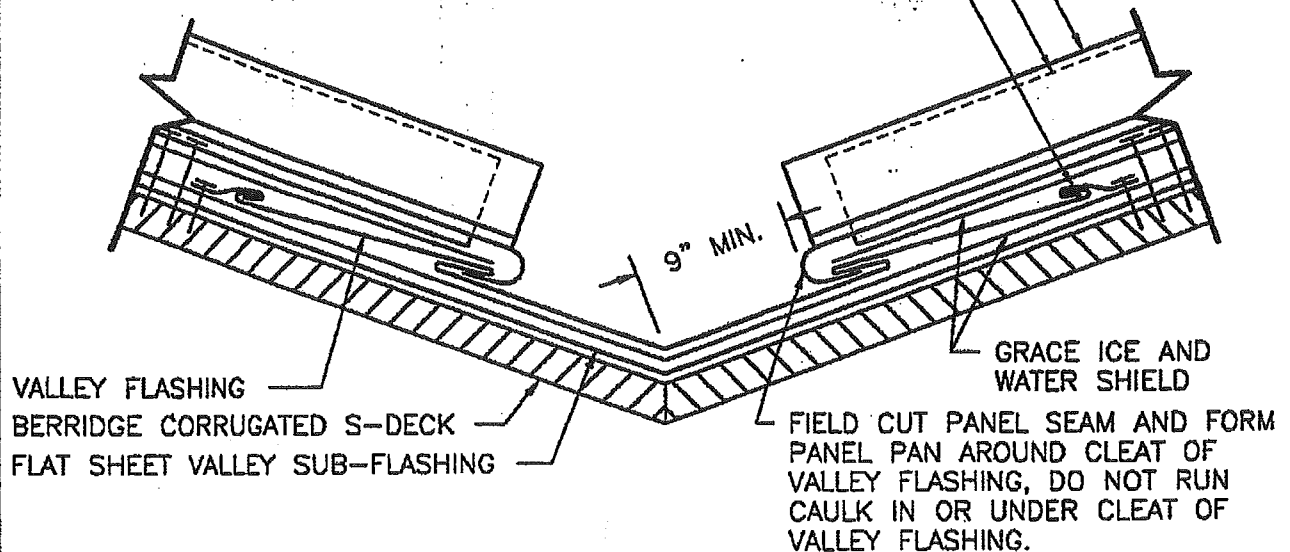
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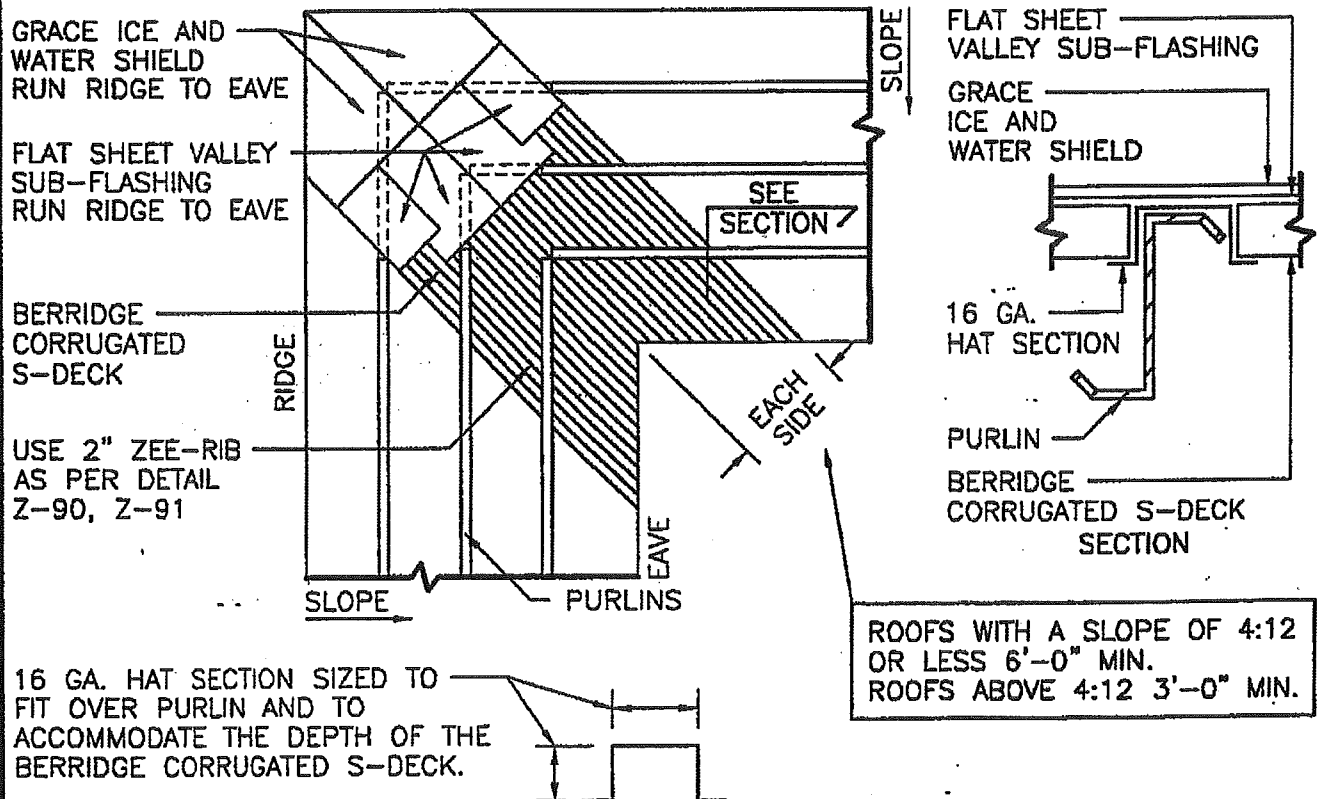
BERRIDGE ZEE-LOCK PANEL

CONTINUOUS 2" ZEE-RIB WITH VINYL WEATHERSEAL

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

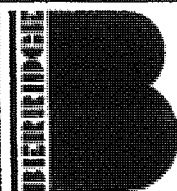


* FLASHING PROFILES AND NOTES, SEE DETAIL Z-70 AND Z-71



16 GA. HAT SECTION SIZED TO FIT OVER PURLIN AND TO ACCOMMODATE THE DEPTH OF THE BERRIDGE CORRUGATED S-DECK.

ROOFS WITH A SLOPE OF 4:12 OR LESS 6'-0" MIN.
ROOFS ABOVE 4:12 3'-0" MIN.



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VALLEY DETAIL
OPEN FRAMING; 2" ZEE-RIB

ZEE-LOCK PANEL

DATE: 04-01-97

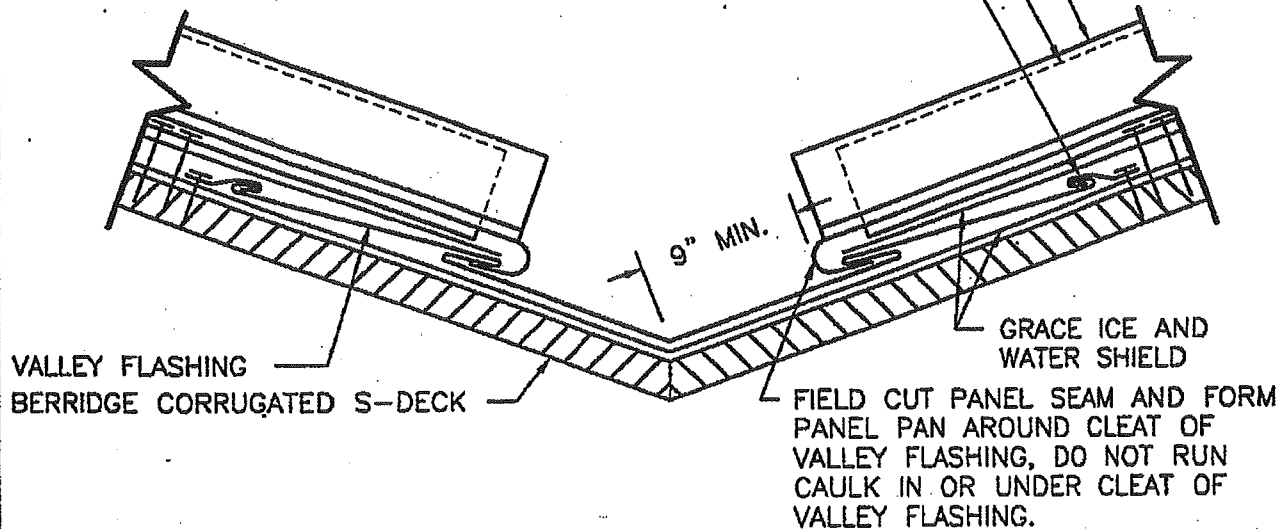
PAGE \ FILE

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BERRIDGE ZEE-LOCK PANEL

CONTINUOUS 2" ZEE-RIB WITH VINYL WEATHERSEAL

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



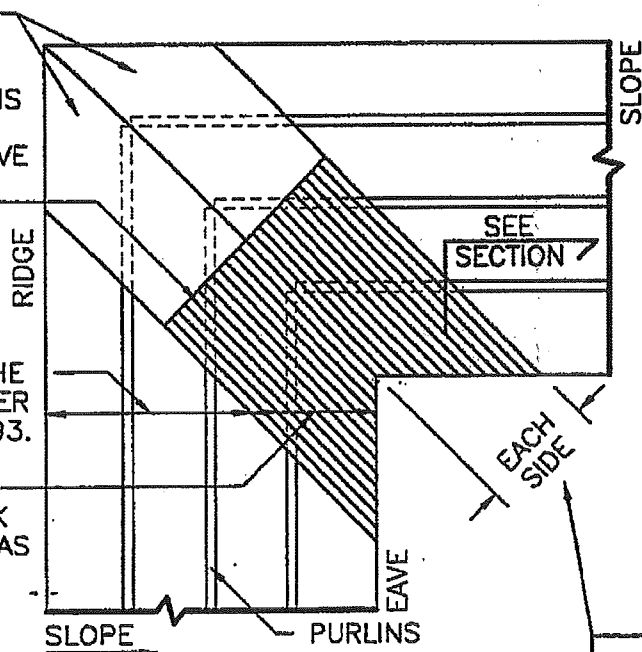
* FLASHING PROFILES AND NOTES, SEE DETAIL Z-70 AND Z-71

GRACE ICE AND WATER SHIELD. ALLOW TO SAG INTO CORRUGATIONS OF S-DECK. RUN RIDGE TO EAVE

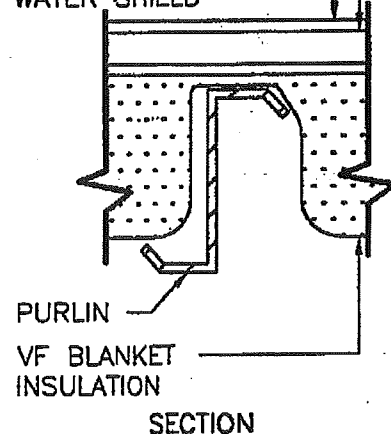
BERRIDGE CORRUGATED S-DECK PLACED ON TOP OF PURLINS

THIS AREA USE THE 3" ZEE-RIB AS PER DETAIL Z-92, Z-93.

THIS AREA OVER CORRUGATED DECK USE 2" ZEE-RIB AS PER DETAIL Z-90, Z-91.



BERRIDGE CORRUGATED S-DECK
GRACE ICE AND WATER SHIELD



ROOFS WITH A SLOPE OF 4:12 OR LESS 6'-0" MIN.
ROOFS ABOVE 4:12 3'-0" MIN.

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

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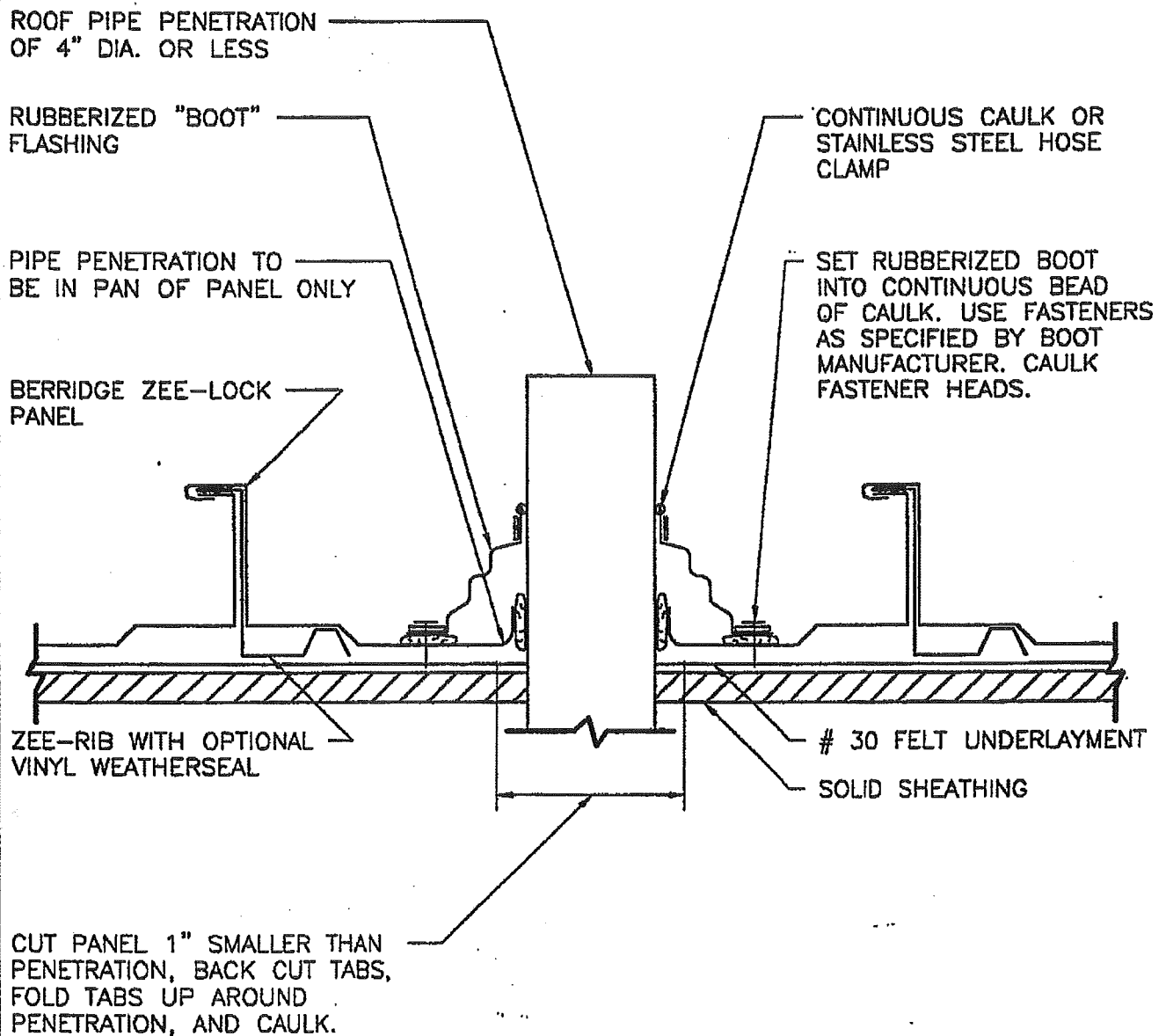
VALLEY DETAIL
OPEN FRAMING; 3" ZEE-RIB WITH THERMAL BLOCKS AND VINYL FACED INSULATION

ZEE-LOCK PANEL



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Roofs of Distinction



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.

RUN PANEL AND
SEAM UP TO
STACK AND CAULK

CONTINUOUS BEAD
OF CAULK

CUT PANEL SEAM
AND LAP SEAM IN
DIRECTION OF
WATER FLOW

BERRIDGE
ZEE-LOCK
PANEL

RUN PANEL AND
SEAM UP TO STACK
AND CAULK

* SECTION A
PAGE Z-82

* SECTION B
PAGE Z-82

ROOF PENETRATION CENTERED ON SEAM

ROOF PENETRATION OFF CENTER OF SEAM

***CALL BMC BEFORE USING THIS DETAIL**

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.

CONTINUOUS BEAD
OF CAULK

CONTINUOUS BEAD
OF CAULK AROUND
SEAM

CAULK AT SNIPPED
OPENINGS

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

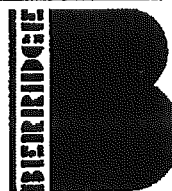
DATE: 04-01-97

PIPE PENETRATION; ON PANEL SEAM
ISOMETRIC AND PLAN VIEW;
*CALL BMC BEFORE USING THIS DETAIL

PAGE\FILE

Z-81

ZEE-LOCK PANEL



Berridge
Manufacturing
Company

Roofs of Distinction

* 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

ZEE-LOCK CLIPS; 2
REQ'D AT PENETRATION (IF NOT
USING CONTINUOUS RIB)

FIELD MITER PANEL LEGS AND SEAM. 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

24 GA. ROUND STACK FLASHING
TO MATCH PANEL COLOR

RUN SEAM AND PANEL UP
TO STACK AND CAULK

30 FELT UNDERLAYMENT

ZEE-LOCK CLIPS; 2 REQ'D
AT PENETRATION (IF NOT
USING CONTINUOUS RIB)

SOLID SHEATHING

* 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

ZEE-LOCK CLIPS; 2
REQ'D AT PENETRATION (IF NOT
USING CONTINUOUS RIB)

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.

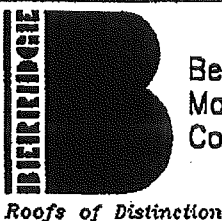
24 GA. ROUND STACK FLASHING
TO MATCH PANEL COLOR

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

ZEE-LOCK CLIPS; 2 REQ'D
AT PENETRATION (IF NOT
USING CONTINUOUS RIB)

SOLID SHEATHING



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Company

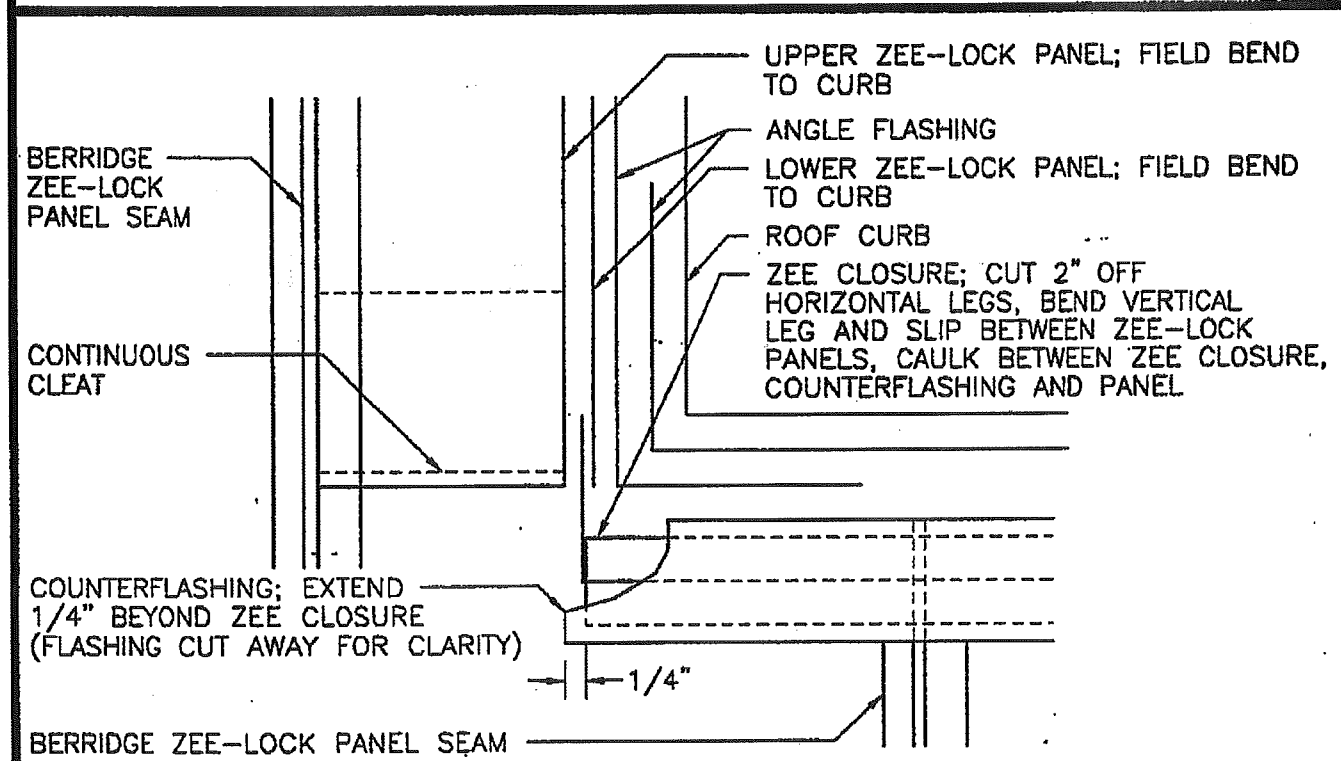
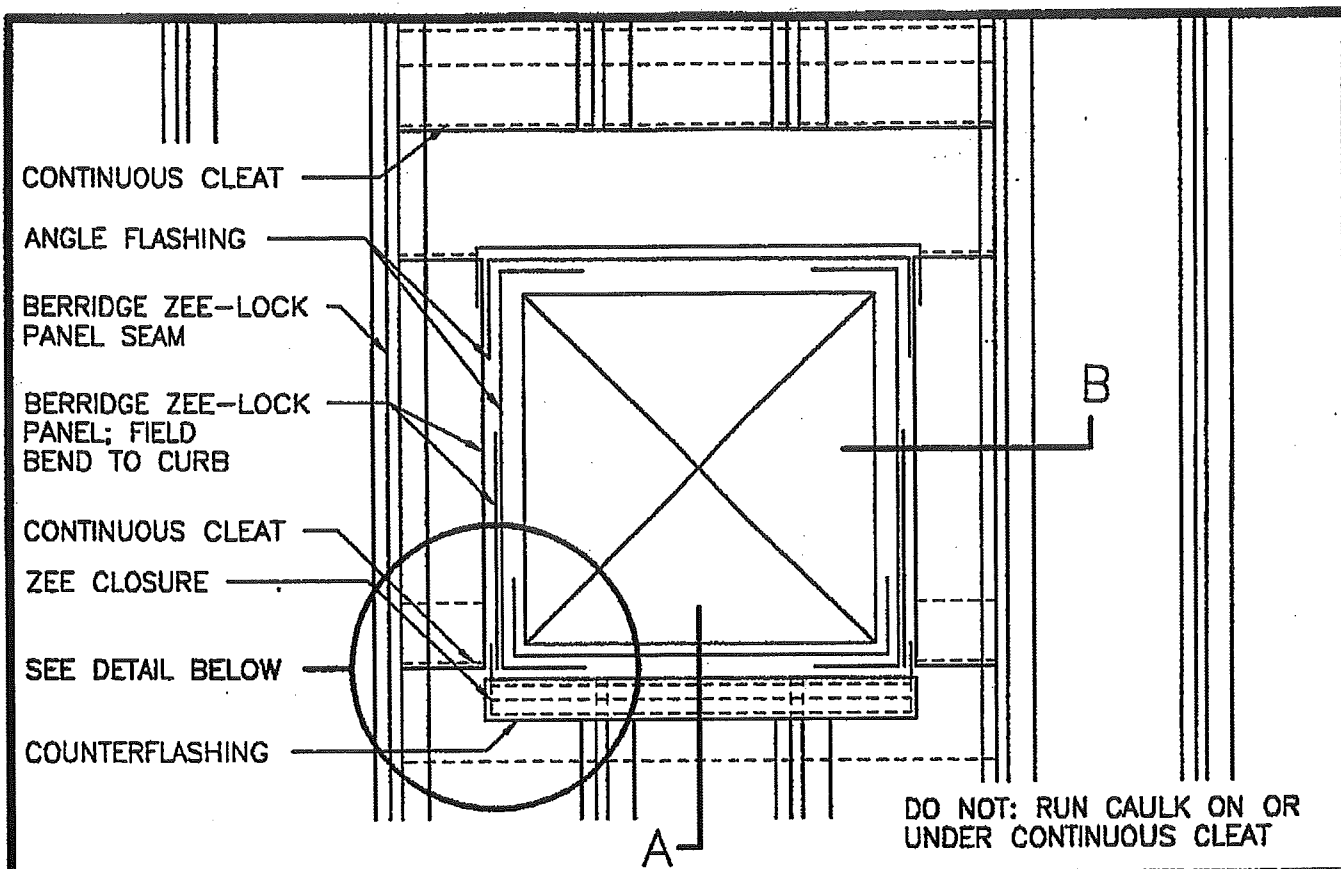
PIPE PENETRATION
ON PANEL SEAM; SECTIONS
*CALL BMC BEFORE USING THIS DETAIL

ZEE-LOCK PANEL

DATE: 04-01-97

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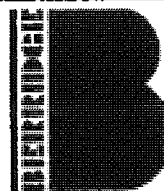
DATE: 04-01-97

SQUARE PENETRATION
PLAN, VIEW
OPEN FRAMING AND SOLID SUBSTRATE

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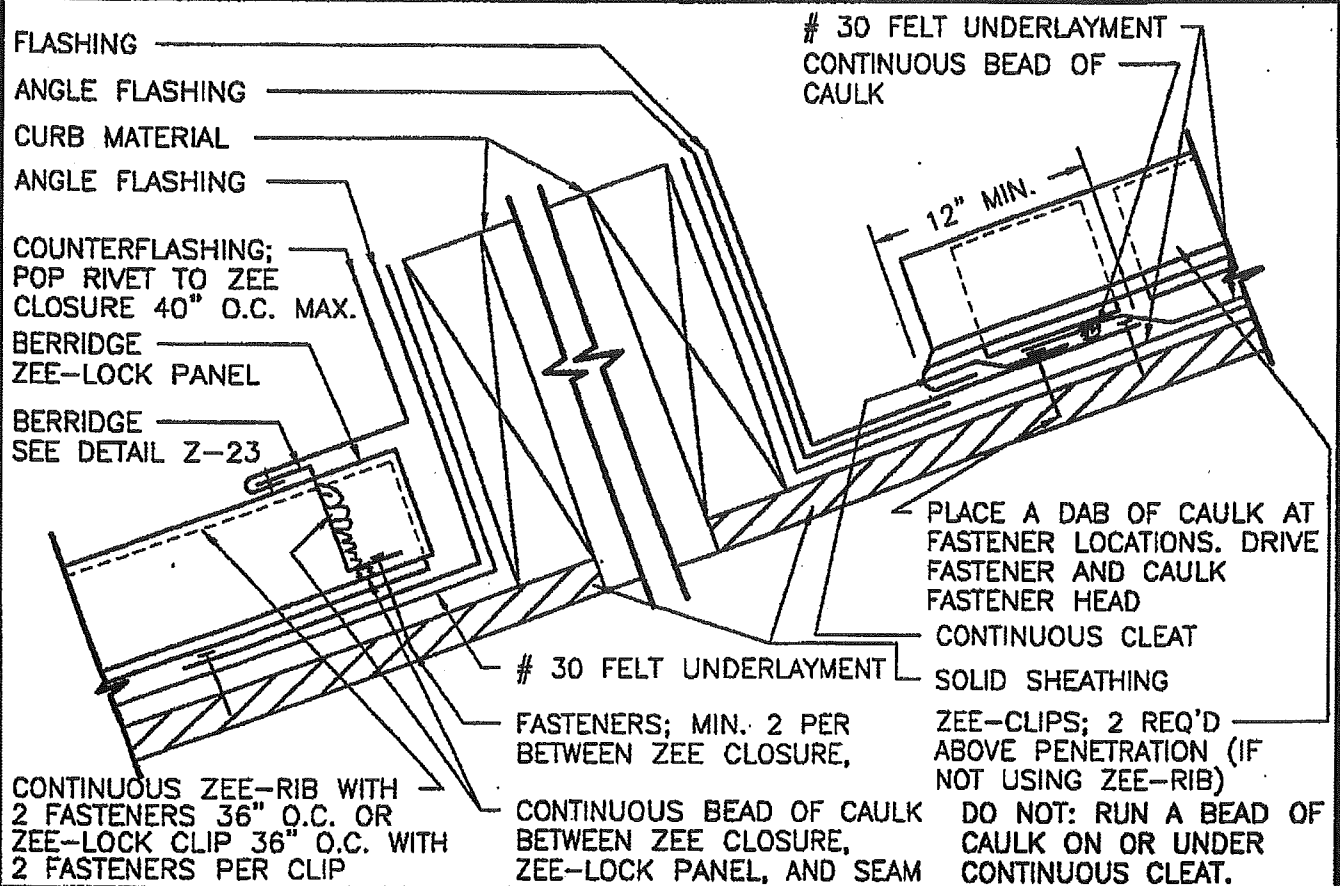
Z-83

ZEE-LOCK PANEL

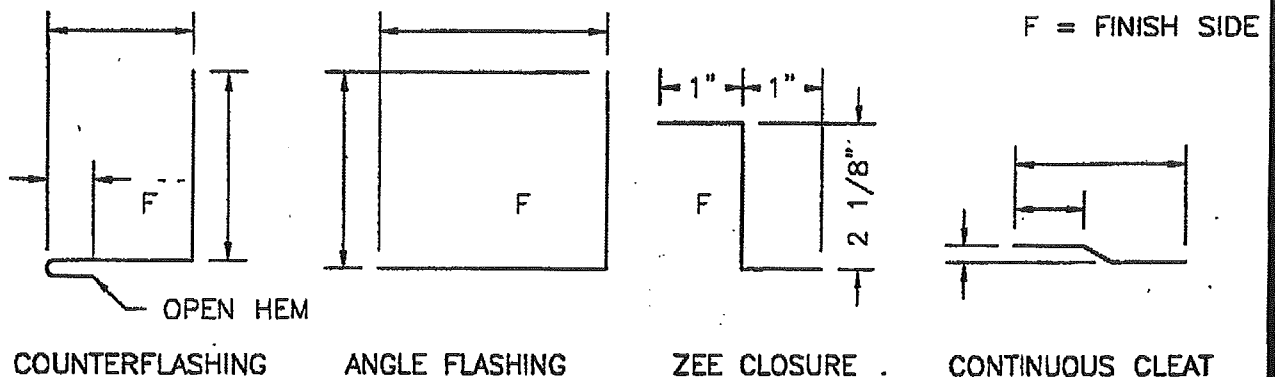


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Roofs of Distinction

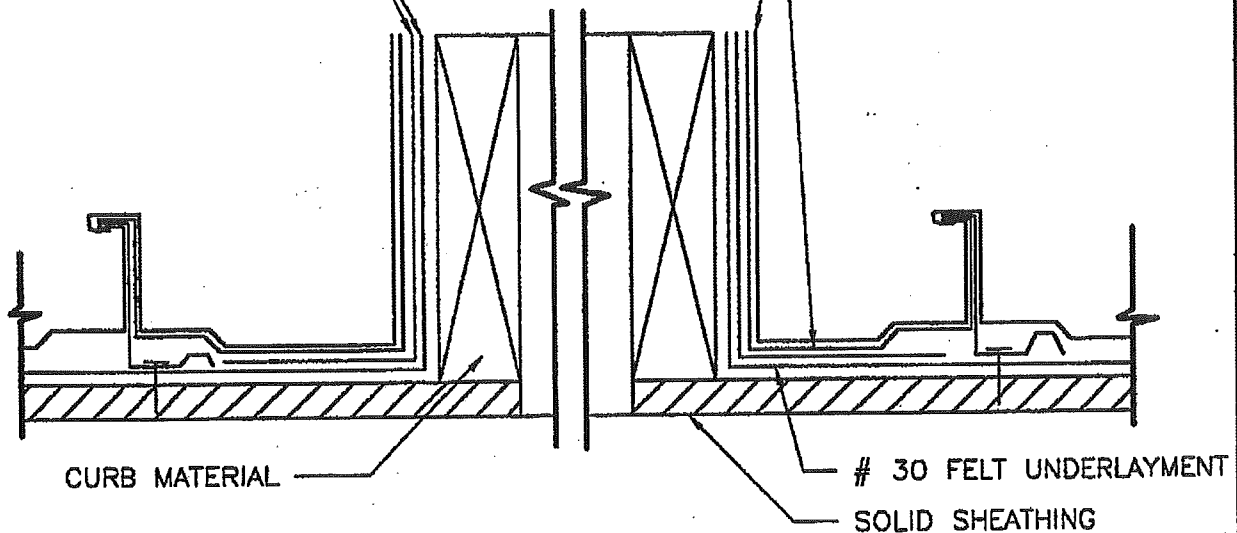


1. SOLID SHEATHING IS REQUIRED AT THIS CONDITION WHEN THE ZEE-LOCK PANEL IS USED OVER OPEN FRAMING (SEE DETAILS Z-87 AND Z-88).
2. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS. (24 GA. METAL CORRUGATED SHEATHING MAY BE USED IN LIEU OF PLYWOOD).
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

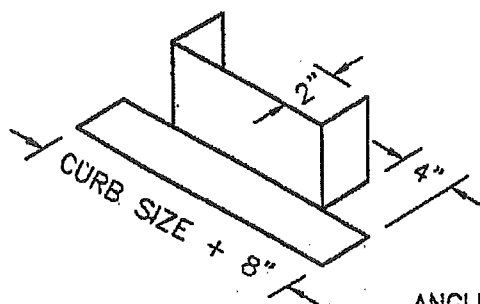


WRAP PERIMETER WITH
FELT AND ANGLE FLASHING

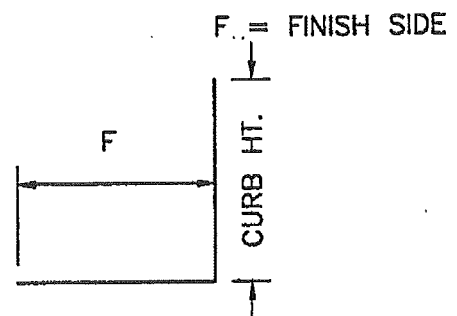
BERRIDGE ZEE-LOCK
PANEL; FIELD FORM
TO CURB



1. SOLID SHEATHING IS REQUIRED AT THIS CONDITION WHEN THE ZEE-LOCK PANEL IS USED OVER OPEN FRAMING (SEE DETAILS Z-87 AND Z-88).
2. 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).
3. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



ANGLE FLASHING



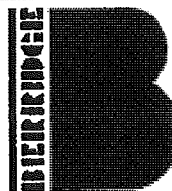
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SQUARE PENETRATION
SECTION B
OPEN FRAMING AND SOLID SUBSTRATE

PAGE \ FILE

Z-85

ZEE-LOCK PANEL



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Roofs of Distinction

DO NOT: RUN CONTINUOUS
CAULK ON OR UNDER
CONTINUOUS CLEAT

CONTINUOUS CLEAT

ANGLE FLASHING

FLASHING

HEM PANEL PAN UNDER
BOTH SIDES OF PENETRATION

BERRIDGE ZEE-LOCK PANEL
FIELD BEND TO CURB

SEE DETAIL BELOW

ZEE CLOSURE; CUT
AND BEND AT END
AND CAULK

ANGLE FLASHING

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

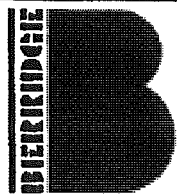
UPPER PANEL

LOWER PANEL

ZEE CLOSURE

CONTINUOUS CLEAT

CONTINUOUS BEAD OF CAULK
BETWEEN ZEE CLOSURE AND PANEL



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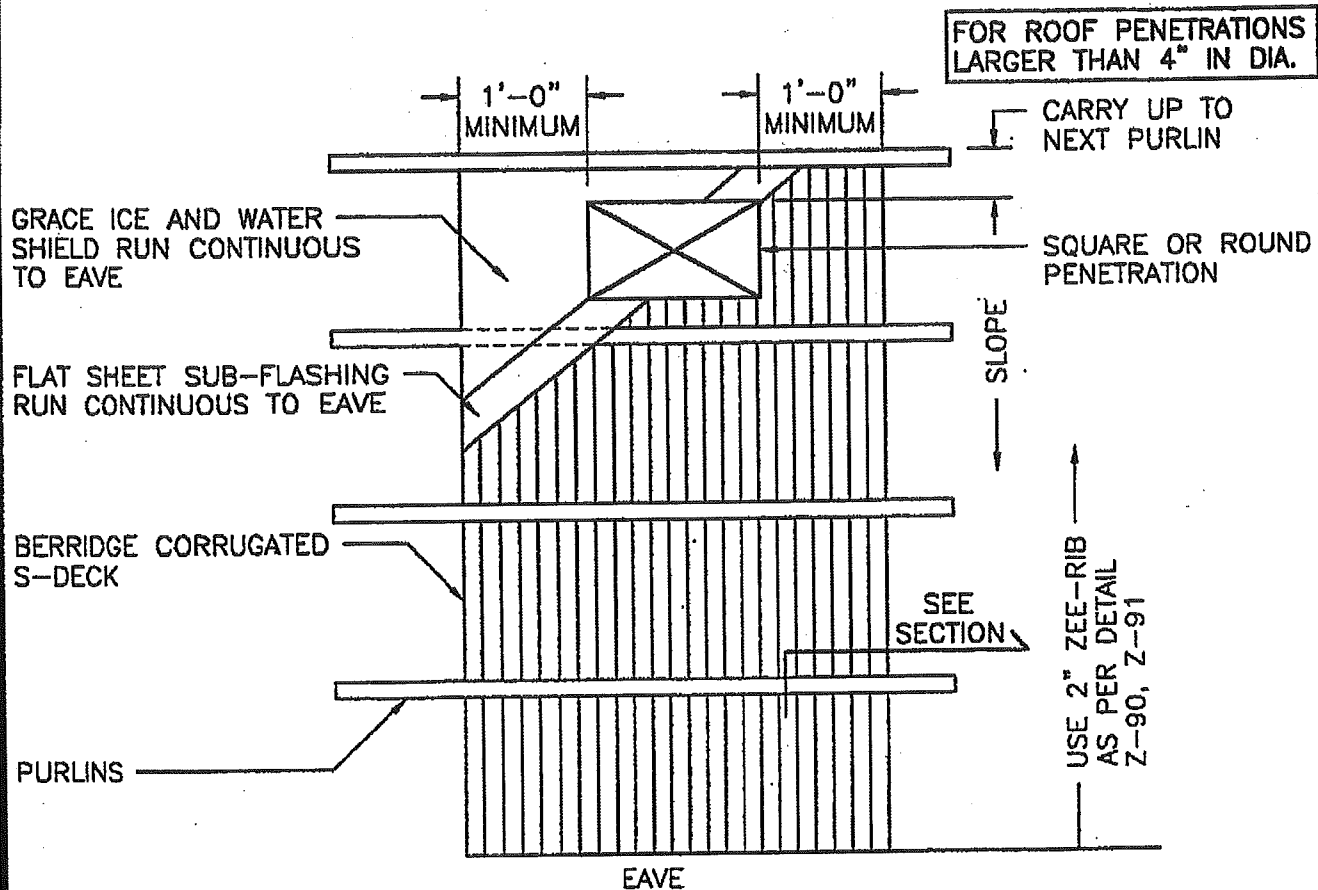
SQUARE PENETRATION
ISOMETRIC
OPEN FRAMING AND SOLID SUBSTRATE

ZEE-LOCK PANEL

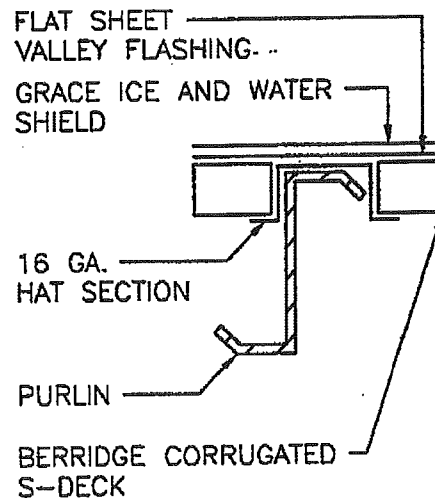
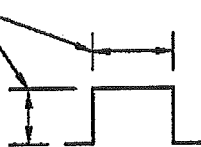
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Z-86



16 GA. HAT SECTION SIZE TO FIT OVER PURLIN AND TO ACCOMMODATE THE DEPTH OF THE BERRIDGE CORRUGATED S-DECK.



SECTION

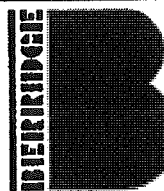
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Z-87

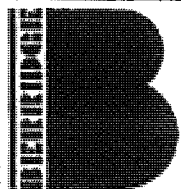
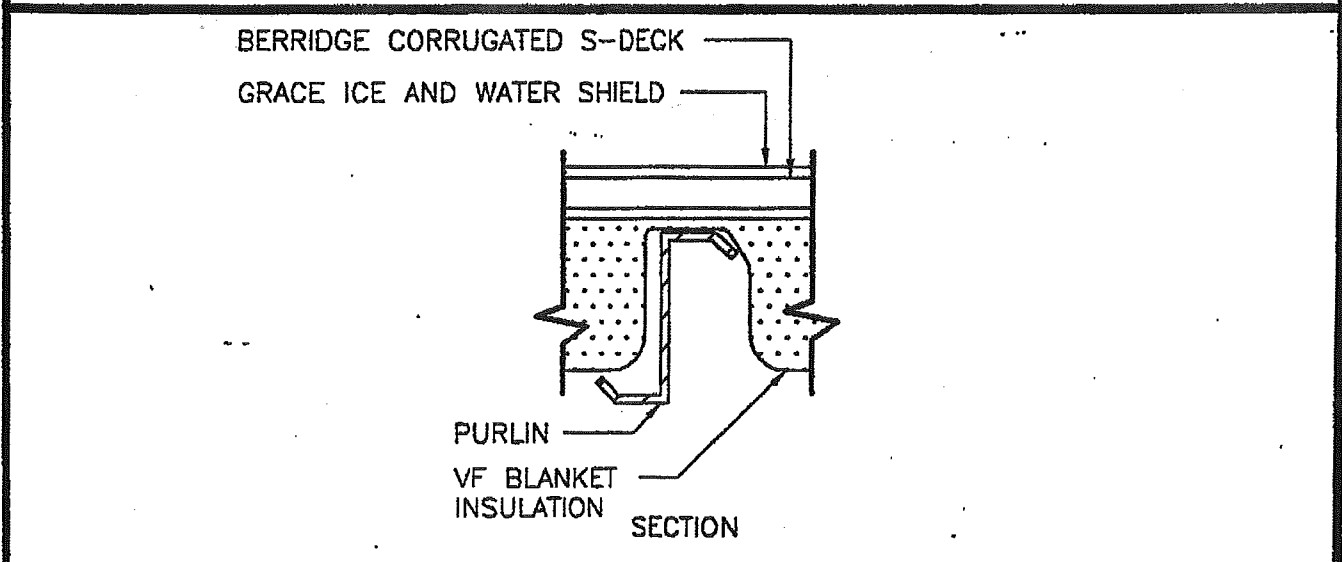
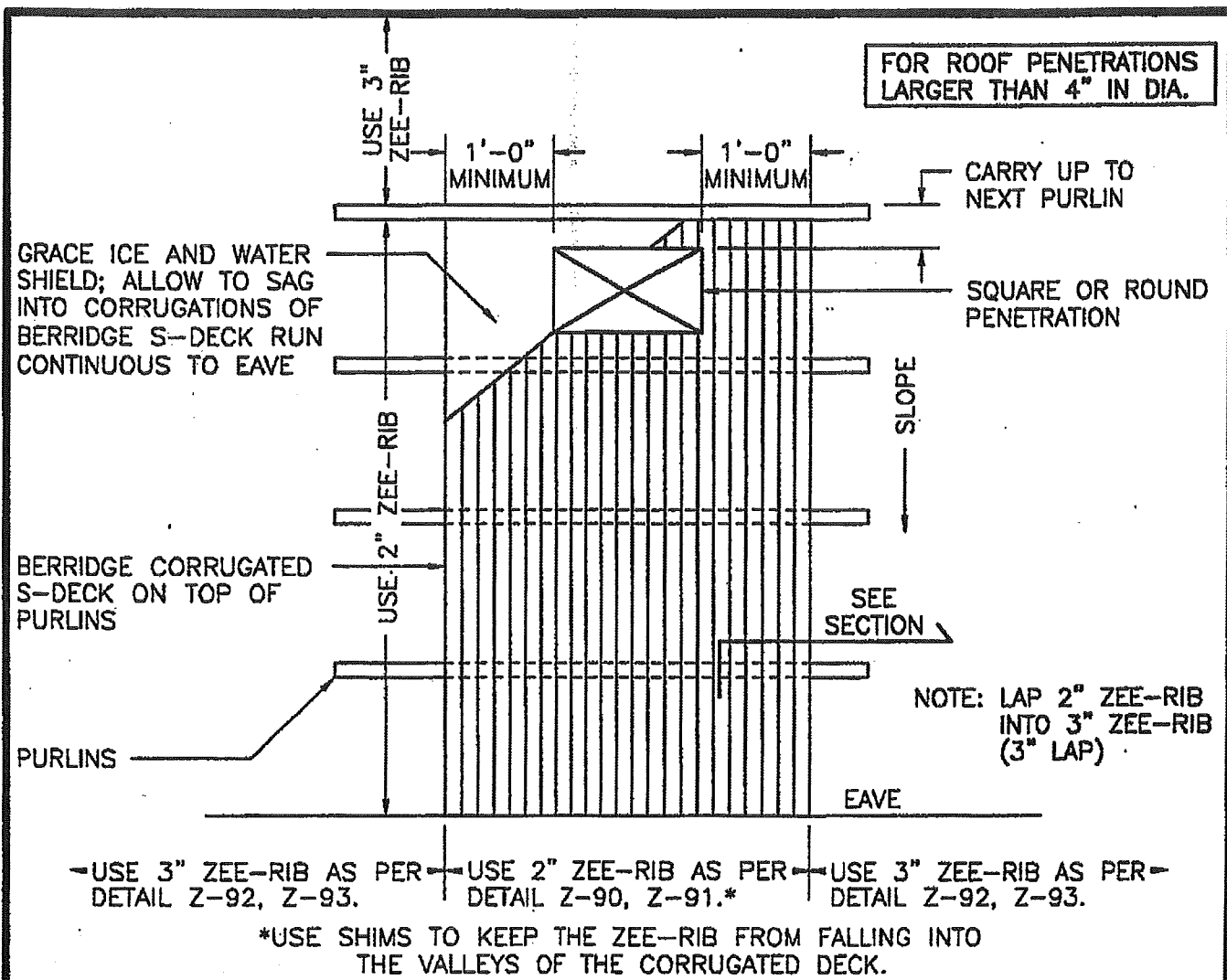
PENETRATION
LARGER THAN 4"; 2" ZEE-RIB
OPEN FRAMING

ZEE-LOCK PANEL



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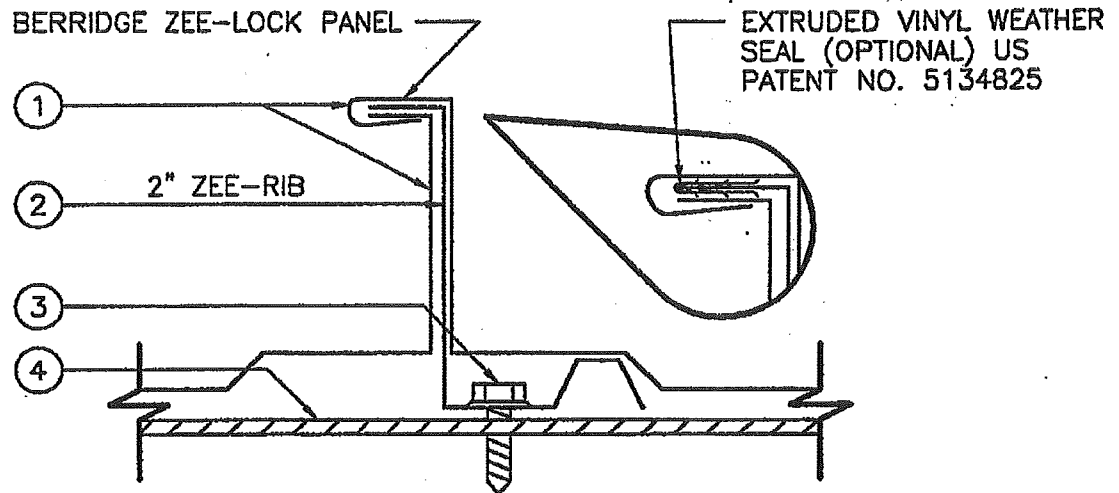
PENETRATION
LARGER THAN 4"; 3" ZEE-RIB WITH THERMAL
BLOCKS AND VINYL FACED INSULATION

ZEE-LOCK PANEL

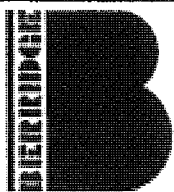
DATE: 04-01-97

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Z-88



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 OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE 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.



Roofs of Distinction

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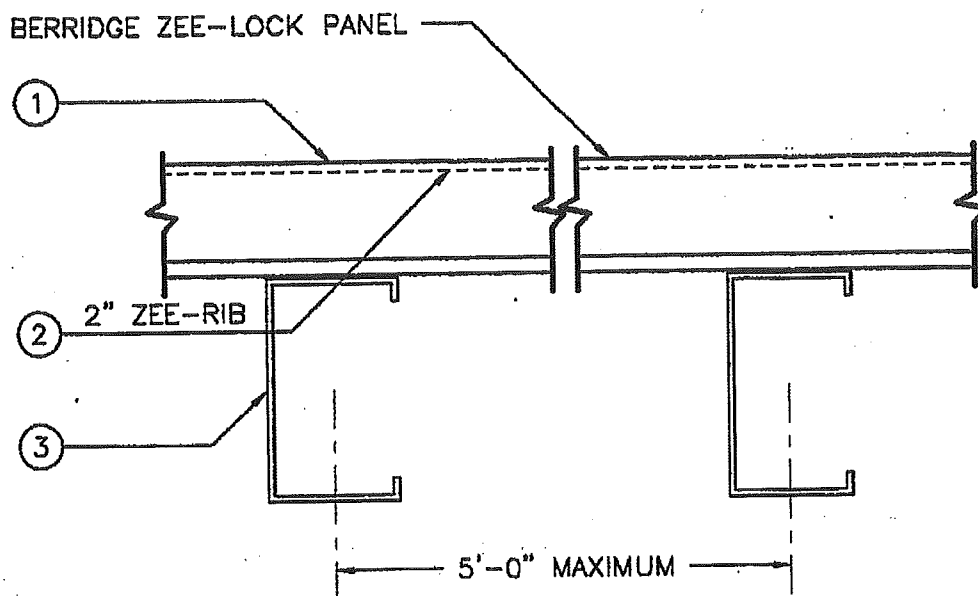
UL 90 APPROVED ASSEMBLY
SEAM SECTIONS AND FASTENER SPECS
CONSTRUCTION NO. 312

ZEE-LOCK PANEL

DATE: 04-01-97

PAGE\FILE

Z-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 OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE 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.

DATE: 04-01-97

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UL 90 APPROVED ASSEMBLY
PURLING. SPACING
CONSTRUCTION NO. 312

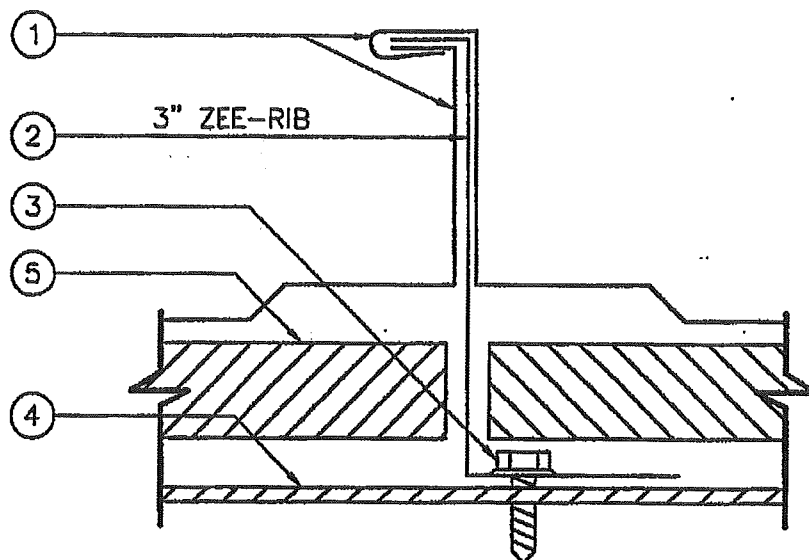
ZEE-LOCK PANEL

BERRIDGE

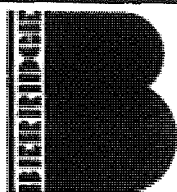


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1. BERRIDGE ZEE-LOCK PANEL * - NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE 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.



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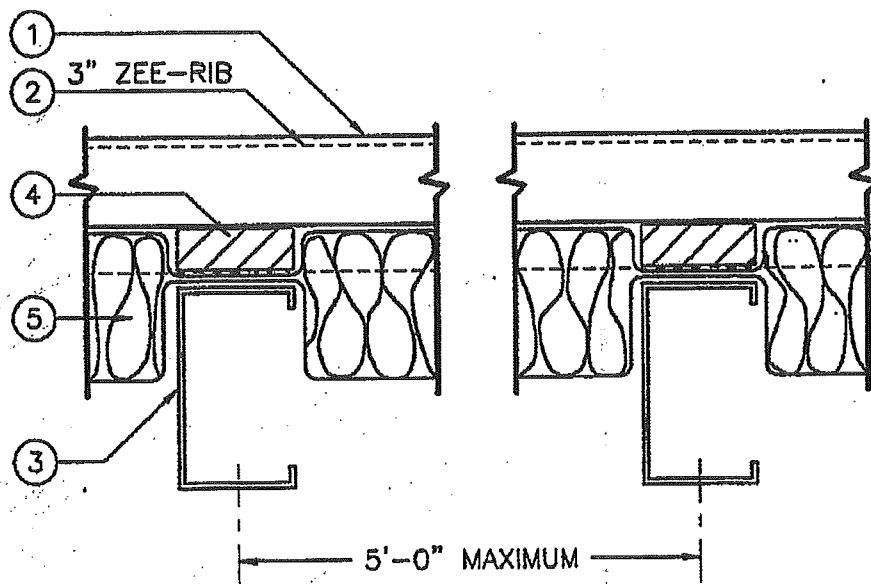
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB
AND BLANKET INSULATION AND 1" THERMAL
BLOCK AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
UL CONSTRUCTION NO. 312

ZEE-LOCK PANEL

DATE: 04-01-97

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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 OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE 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.

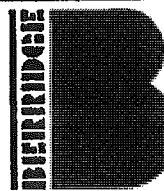
DATE: 04-01-97

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Z-93

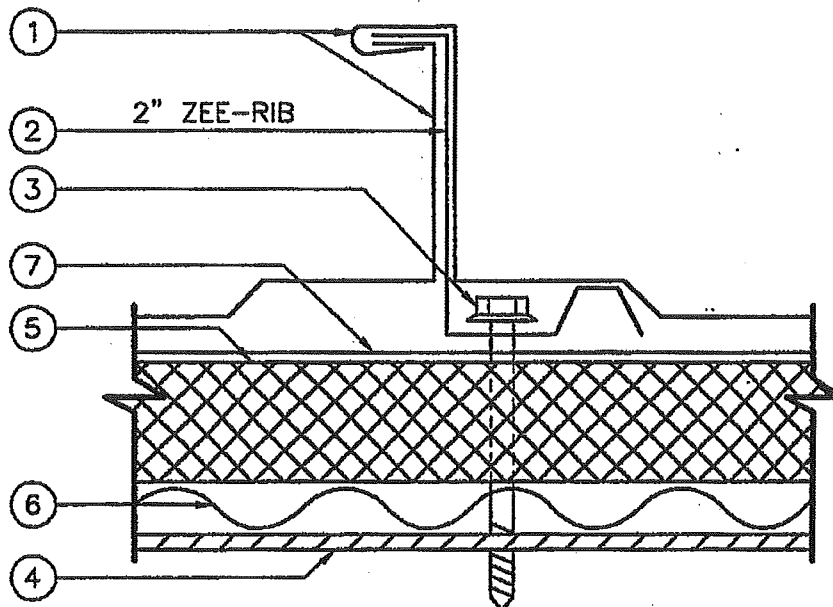
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB
AND 6" BLANKET INSULATION AND 1" THERMAL
BLOCK AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
UL CONSTRUCTION NUMBER 312

ZEE-LOCK PANEL



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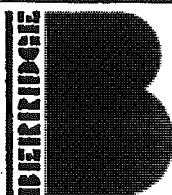


1. BERRIDGE ZEE-LOCK PANEL * - NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE USED AT PANEL SIDE LAPS. ADJACENT PANELS 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. # 30 FELT UNDERLAYMENT.
8. LATERAL BRACING - (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.



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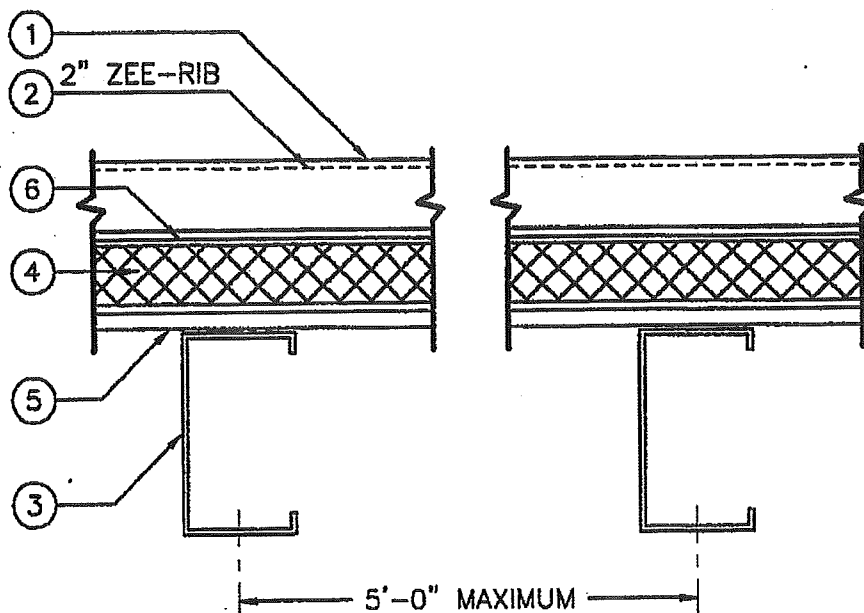
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
INSULATION BOARD OVER BERRIDGE 24 GA. CORRUGATED
S-DECK, AND 16 GA. PURLINS @ 5'-0" O.C. MAX.
UL CONSTRUCTION NUMBER 335

ZEE-LOCK PANEL

DATE: 04-01-97

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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 OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE 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. # 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.

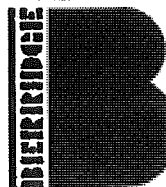
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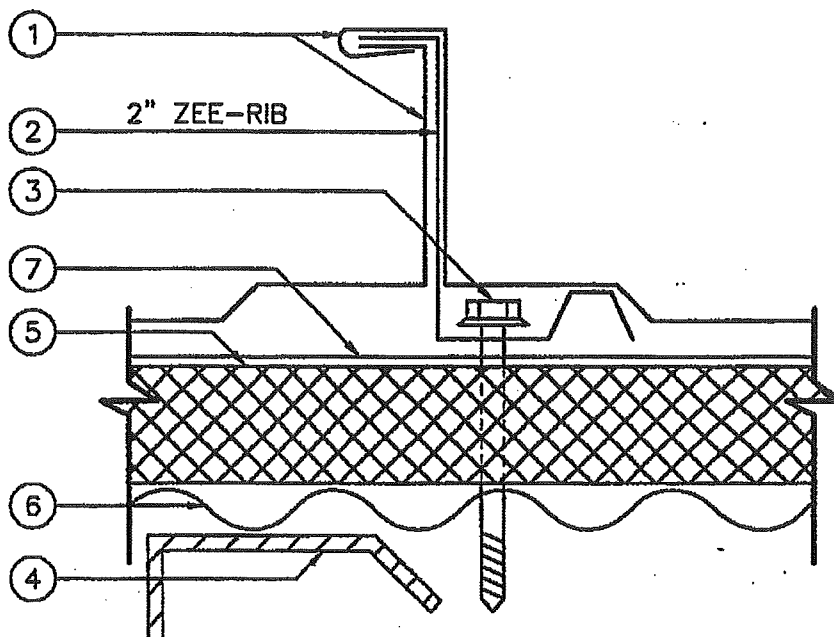
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
INSULATION BOARD OVER BERRIDGE 24 GA. CORRUGATED
S-DECK, AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
UL CONSTRUCTION NUMBER 335

ZEE-LOCK PANEL



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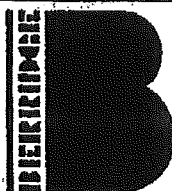


1. BERRIDGE ZEE-LOCK PANEL * - NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16 IN. WIDE, 2 IN. HIGH. PANELS CONTINUOUS OVER TWO OR MORE SPANS WITHOUT END LAPS. AN OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE USED AT PANEL SIDE LAPS. ADJACENT PANELS 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. # 30 FELT UNDERLAYMENT.
8. LATERAL BRACING - (NOT SHOWN) REFER TO "GENERAL INFORMATION, ROOF DECK CONSTRUCTION" (BUILDING MATERIAL DIRECTORY), FOR ITEMS NOT EVALUATED.

* BEARING THE UL CLASSIFICATION MARKING.



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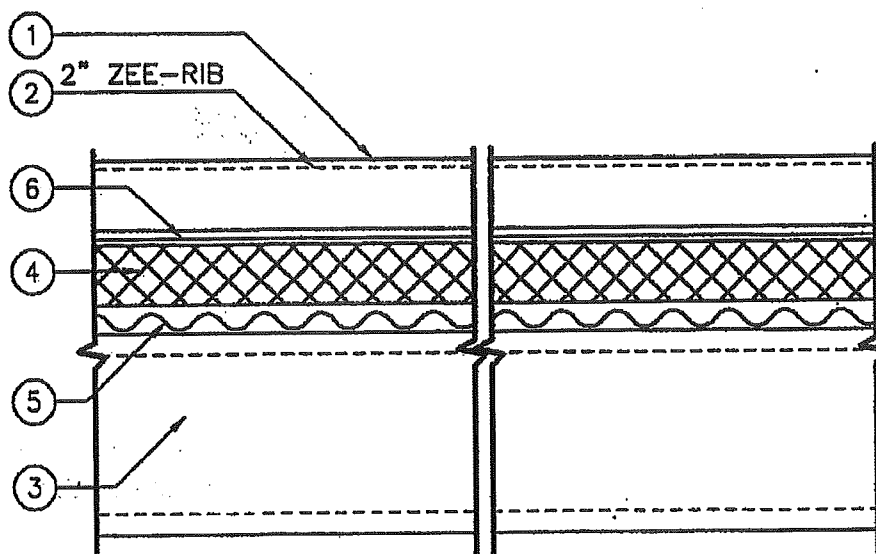
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
INSULATION BOARD OVER BERRIDGE 22 GA. CORRUGATED
S-DECK, AND 16 GA. PURLINS @ 5'-0" O.C. MAX.
MODIFICATION OF UL CONSTRUCTION NUMBER 335

ZEE-LOCK PANEL

DATE: 04-01-97

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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 OPTIONAL EXTRUDED VINYL WEATHERSEAL (US PATENT NO. 5,134,825) MAY BE 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. # 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.

DATE: 04-01-97

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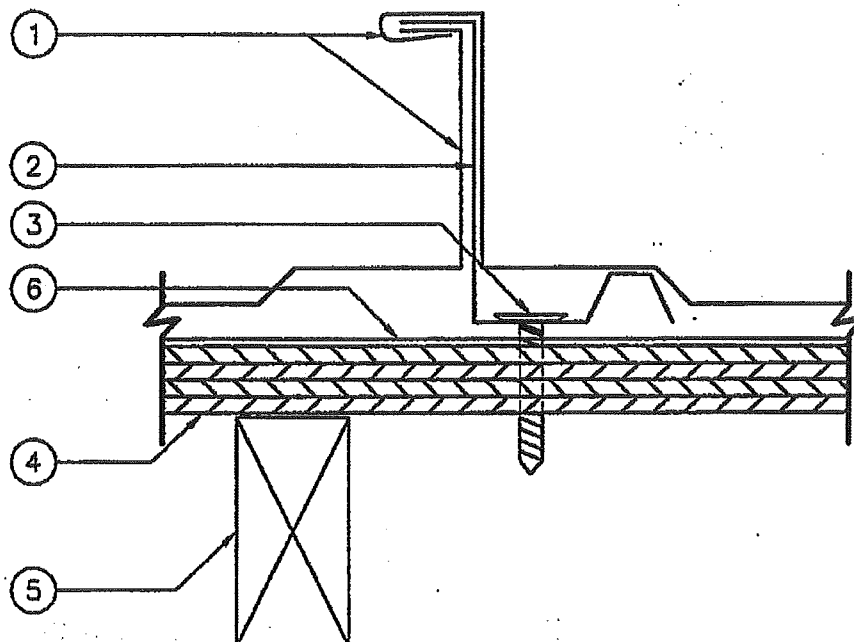
UL 90 APPROVED ASSEMBLY
ZEE-LOCK PANEL WITH CONTINUOUS ZEE-RIB AND 4" RIGID
INSULATION BOARD OVER BERRIDGE 22 GA. CORRUGATED
S-DECK, AND 16 GA. PURLINS AT 5'-0" O.C. MAX.
MODIFICATION OF UL CONSTRUCTION NUMBER 335

ZEE-LOCK PANEL



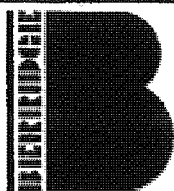
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1. METAL ROOF DECK PANELS * - NO. 24 MSG MINIMUM THICKNESS COATED STEEL, (MIN. YIELD STRENGTH 40,000 PSI) 16" WIDE, 2" HIGH, WITH A NON-STRUCTURAL OPTIONAL VINYL WEATHERSEAL (US PATENT NO. 5,134,825) AT PANEL SEAMS. ADJACENT PANELS ARE SEAMED TOGETHER 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 (MIN. YIELD STRENGTH 40,000 PSI). "ZEE-CLIP" LOCATED AT EACH PANEL SIDE LAP BEING PLACED AT 3'-0" O.C. MAXIMUM.
BERRIDGE MANUFACTURING CO. - "ZEE-CLIP"
3. FASTENERS (SCREWS) - FOR ATTACHING "ZEE-CLIP" (ITEM 2) TO 5/8" PLYWOOD USE NO. 10 PANCAKE HEAD SELF-TAPPING SCREWS, TWO FASTENERS PER "ZEE-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.



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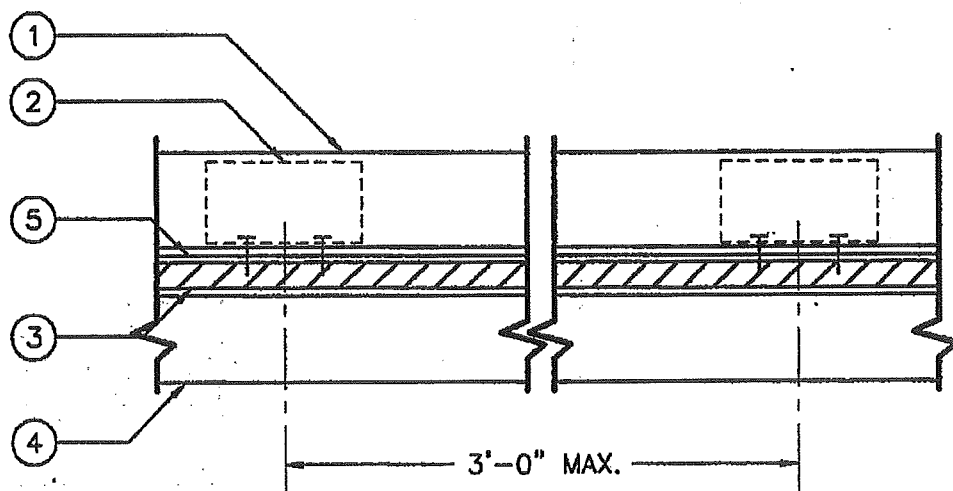
UL 90 APPROVED ASSEMBLY
PLYWOOD DECK; SEAM SECTION
UL CONSTRUCTION NO. 403

ZEE-LOCK PANEL

DATE: 05-01-97

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1. METAL ROOF DECK PANELS * - NO. 24 MSG MINIMUM THICKNESS COATED STEEL. (MIN. YIELD STRENGTH 40,000 PSI) 16" WIDE, 2" HIGH, WITH A NON-STRUCTURAL OPTIONAL VINYL WEATHERSEAL (US PATENT NO. 5,134,825) AT PANEL SEAMS. 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 (MIN. YIELD STRENGTH 40,000 PSI). "ZEE-CLIP" LOCATED AT EACH PANEL SIDE LAP WITH CLIPS BEING PLACED AT 3'-0" O.C. MAXIMUM.
BERRIDGE MANUFACTURING CO. - "ZEE-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.

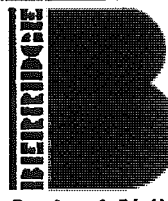
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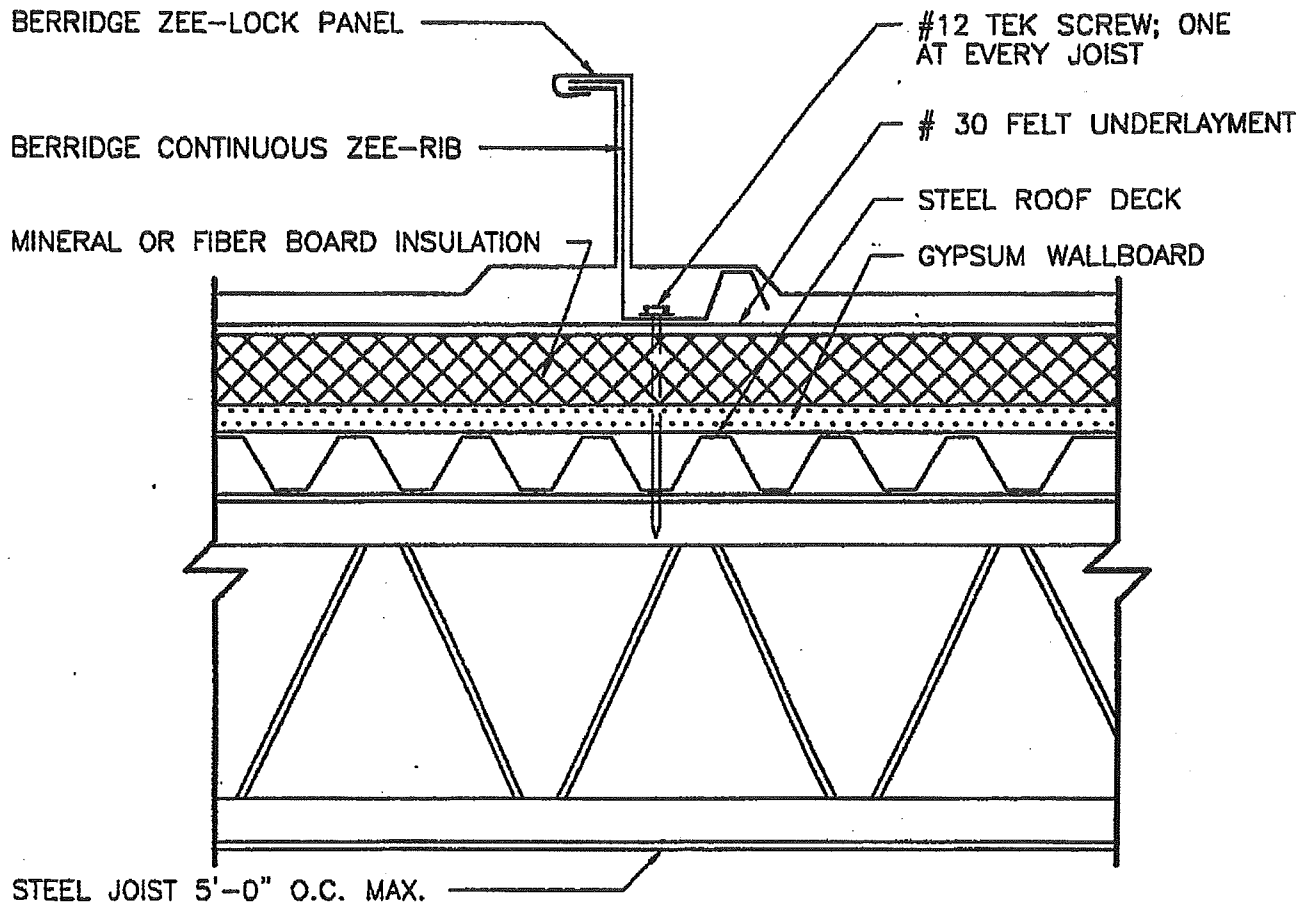
UL 90 APPROVED ASSEMBLY
PLYWOOD DECK; CLIP SPACING
UL CONSTRUCTION NO. 403

ZEE-LOCK PANEL

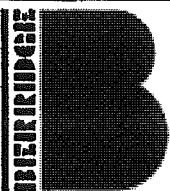


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1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE ZEE-LOCK PANEL IN ORDER TO MAKE A POSITIVE ATTACHMENT, MUST BE ATTACHED TO THE STEEL DECK. (IF THE INSULATION SYSTEM HAS NO 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.



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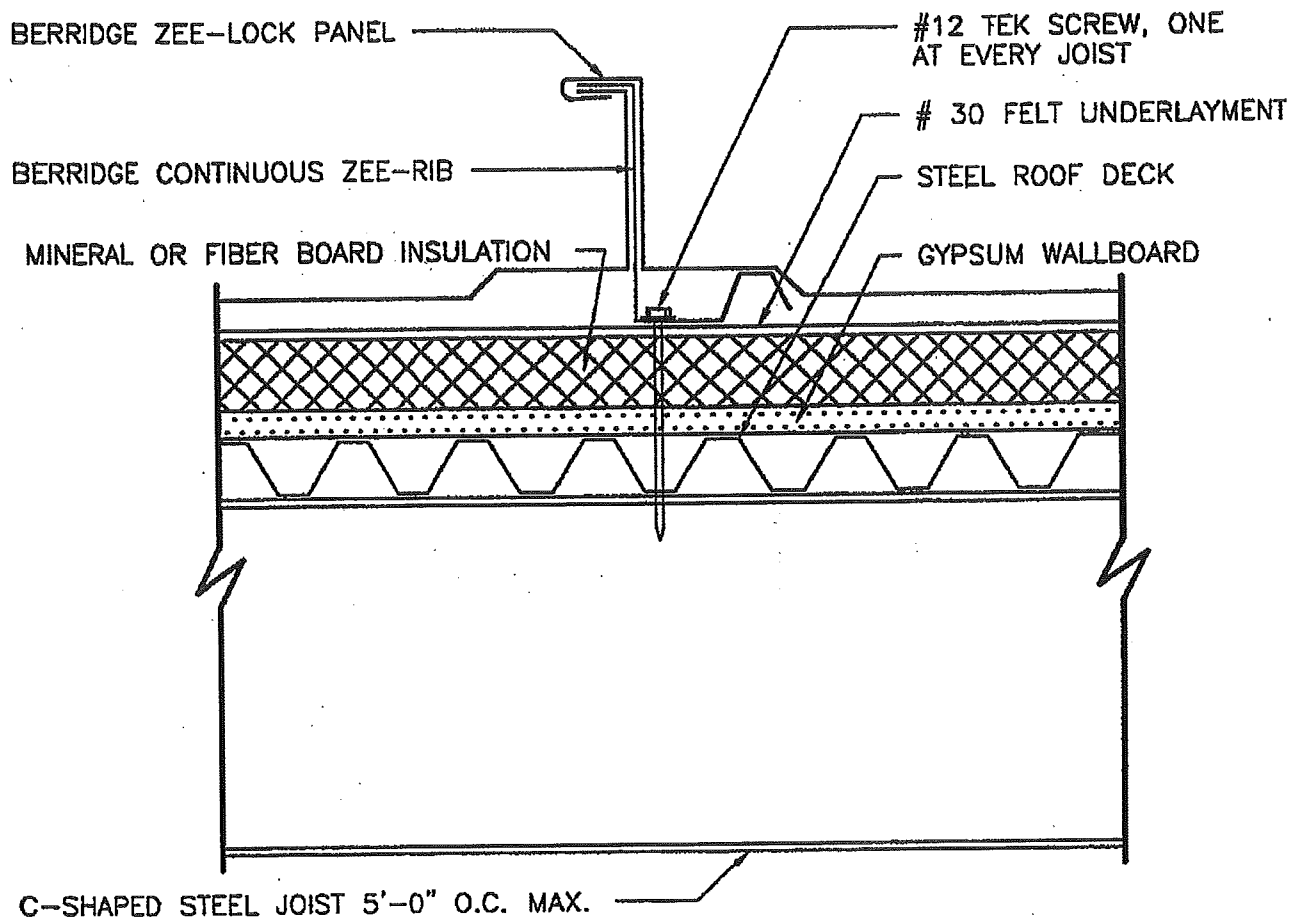
UL FIRE RESISTANCE
ROOF ASSEMBLY
OPEN WEB STEEL JOIST

ZEE-LOCK PANEL

DATE: 04-01-97

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Z-100



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.

DATE: 04-01-97

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UL FIRE RESISTANCE
ROOF ASSEMBLY; C-SHAPED
STEEL JOIST

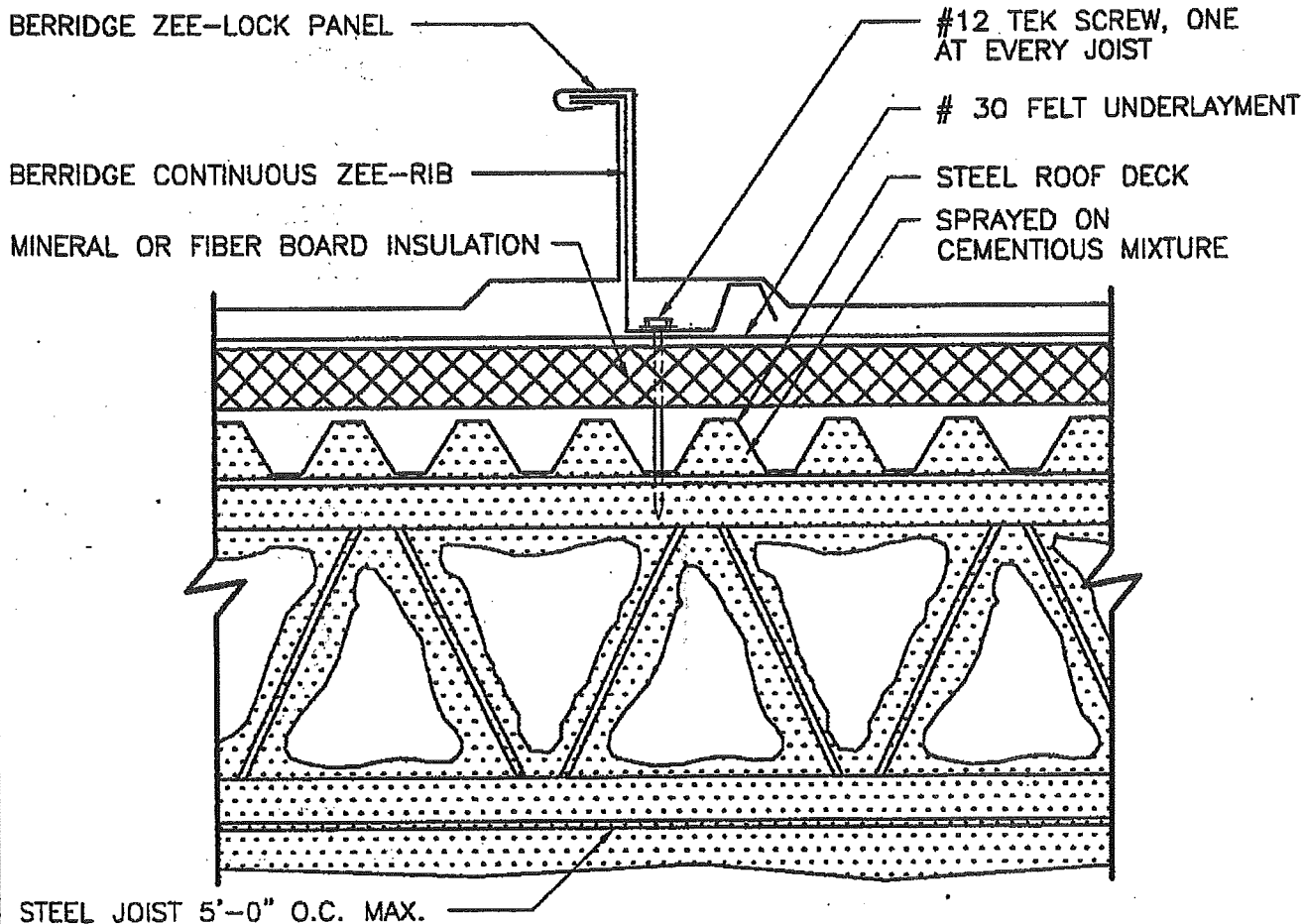
ZEE-LOCK PANEL

BERRIDGE

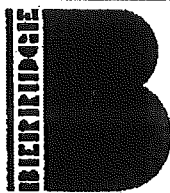


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Company

Roofs of Distinction



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.



Berridge
Manufacturing
Company

Roofs of Distinction

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

ZEE-LOCK PANEL

DATE: 04-01-97

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