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VALLEY
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U.L. 90 CONST. NO. 405 (SOLID WOOD SHEATHING)
A. BERMUDA PANEL SYSTEM: CAN BE FACTORY OR FIELD FABRICATED USING A PORTABLE ROLL FORMER. PANELS ARE FORMED TO A CONSTANT EXPOSURE WIDTH OF 11" AND A PANEL DEPTH OF 1".

B. MINIMUM SLOPE: PANELS ARE RECOMMENDED FOR ROOF SLOPES OF 3 IN 12 OR GREATER. A DOUBLE LAYER OF 30# FELT UNDERLAYMENT IS RECOMMENDED FOR 3 IN 12 SLOPES.

C. MATERIAL STORAGE: CAUTION MUST BE EXERCISED IN STORAGE OF MATERIALS PRIOR TO INSTALLATION. KEEP ALL BERRIDGE PREFINISHED MATERIAL IN A DRY LOCATION WITH ADEQUATE VENTILATION AND OUT OF DIRECT SUNLIGHT. EXPOSURE TO DIRECT SUNLIGHT AND/OR MOISTURE MAY CAUSE THE FACTORY APPLIED STRIPPEABLE PLASTIC FILM TO ADHERE TO THE METAL PERMANENTLY AND DISCOLOR THE FINISH.

D. STRIPPEABLE FILM: THE STRIPPEABLE PLASTIC FILM WHICH IS APPLIED OVER MOST BERRIDGE PREFINISHED PRODUCTS, PANELS, FLASHINGS, COILS AND FLAT SHEETS PROTECTS THE FINISH DURING FABRICATION AND TRANSIT. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION.

E. SOLID SHEATHING REQUIREMENTS: BERRIDGE MANUFACTURING COMPANY RECOMMENDS THE USES OF EITHER BERRIDGE 24 GA. CORRUGATED METAL (NOMINAL 2-1/2" PITCH X 11/16" DEPTH) OR A MINIMUM OF 1/2" PLYWOOD SHEATHING TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS. CONTACT BERRIDGE MANUFACTURING’S ENGINEERING DEPARTMENT FOR USE OF ANY OTHER TYPE OF SOLID SHEATHING. (30 # FELT 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 OR "H" CLIPS SHOULD BE USED ON PLYWOOD 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 PANELS. SUBSTRATE SHOULD BE LEVEL TO 1/4" IN 20'-0".
5. ALL CUTS AT PENETRATIONS SHOLUD 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; DIAPHRAGM CAPABILITIES AND PURLIN STABILITY ARE MINIMAL AS PROVIDED BY THE BERMUDA PANEL SYSTEM, THEREFORE OTHER BRACING MAY BE REQUIRED TO CONFORM TO A.I.S.C. OR A.I.S.I. SPECIFICATIONS.
H. OPEN FRAMING INSPECTION:
1. PURLINS SHOULD BE ALIGNED WITH TOP FLANGES IN THE SAME PLANE TO A TOLERANCE OF 1/4" IN 20'-0" UNEVENNESS IN THE TOP PLANE OF THE PURLINS WILL RESULT IN ABNORMAL "OIL CANNING" OF PANELS. PURLINS SHALL BE ADEQUATELY BRACED.

2. BERRIDGE MANUFACTURING COMPANY REQUIRES SOLID SHEATHING IN VALLEY AND AROUND ROOF PENETRATIONS. DO NOT APPLY PANELS ON OPEN FRAMING AT VALLEYS OR ROOF PENETRATIONS WITHOUT REFERRING TO DETAILS.

3. FOOT TRAFFIC ON THE PANELS MUST BE KEPT TO A MINIMUM. ARCHITECTURAL PANELS 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 UNDERLAYMENT 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 BERRIDGE TYPICAL UNDERLAYMENT DETAILS. GRACE ICE AND WATER SHIELD 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 x 1-1/4" LONG WITH BERRIDGE GALVANIZED FELT CAPS.

4. INSTALL VALLEY FELT FIRST.

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

6. INSULATE BETWEEN WOOD BLOCKING AND METAL WITH FELT OR ICE AND WATER SHIELD.

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

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

1. PANELS OVER 30'-0" LONG REQUIRE EXPANSION JOINTS SEE DETAIL BP-6 AND BP-7.
M. ELECTROLYSIS: AVOID ALLOWING FLASHING AND PANELS TO COME INTO CONTACT WITH EITHER LEAD OR COPPER, AND PREVENT EXPOSURE TO WATER RUNDOWN FROM COPPER AND/OR LEAD.

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

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

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

3. INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.

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

O. SEALENT RECOMMENDATIONS: TREMCO, INC. "SPECTREM 1" SILICONE SEALANT.

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

Q. PANEL INSTALLATION:

1. INSTALL STARTER STRIP CONTINUOUS AT EAVE.

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

3. START AT EAVE WITH PANEL AND WORK TOWARD THE RIDGE. PANEL END CUTS NEED TO BE ACCURATE WHEN USING THE VINYLWEATHERSEAL.

4. KEEP PANELS ALIGNED SO THAT PANELS MATCH AT HIPS AND VALLEYS. DO NOT INSTALL LONG CONTINUOUS RUNS OF PANELS ALL AT ONE TIME WHERE PANEL LINES MUST MATCH. INSTALL TEN TO 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 PANEL MATCHING.

5. INSTALL CLIPS AS PER CLIP INSTALLATION NOTES.

6. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN THE MALE/FEMALE JOINT ANY CRIMPS IN MALE LEG MUST BE STRAIGHTENED (TOTALLY STRAIGHT WITH OUT ANY BENDS, CRIMPS, CREASES, ETC.) PRIOR TO PANEL INSTALLATION.

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 A 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. CLIP INSTALLATION:
1. INSTALL CLIPS AS PER DETAILS.

2. CLIP SPACING ON SOLID SHEATHING NOT TO EXCEED 20" ON CENTER.*

3. WHEN INSTALLING PANEL OVER OPEN FRAMING, USE CLIPS ALONG EVERY PURLIN AT 20" ON CENTER MAXIMUM.*

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

S. FASTENERS: INSTALL FASTENERS AS PER TYPICAL DETAILS. USE 11 GAUGE 1-1/4" GALVANIZED ROOFING NAILS FOR INSTALLATION OVER WOOD SHEATHING AND USE #10 PANCAKE HEAD TEKS FASTENERS (ZINC-PLATED SCREW WITH PHILLIPS INSERT, AS MADE BY CONSTRUCTION FASTENERS CO.) FOR INSTALLATION TO METAL. ** WHEN USING POP RIVETS ON FLASHING, STAINLESS STEEL RIVETS ARE RECOMMENDED TO AVOID RUST 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.

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

BERRIDGE MANUFACTURING COMPANY STRIVES TO PROVIDE ITS CUSTOMERS WITH THE HIGHEST QUALITY STRETCHER LEVELLED 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, IMPROPER HANDLING, 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 BERMUDA PANEL SYSTEM.

NOTE: ALL PRODUCTS, SPECIFICATIONS, DETAILS, AND INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.
Expansion and contraction of metal panels due to longitudinal thermal movement must be considered in both design and installation. The above chart emphasizes the need to provide ample clearances from gutters, ridges, endwall, etc.

Maximum temperature should be no lower than 140°F for white panels, up to 180° for dark painted panels. Regardless of ambient maximum, minimum should be figured well below ambient minimum to allow for radiation to night sky. In any case, a minimum of 100°F differential is recommended.
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.
ANCHOR CLIP

BERMUDA ROOF PANEL

CLIPS 20” O.C.

1” EXPOSURE

OPTIONAL VINYL WEATHERSEAL

BERMUDA ROOF PANEL

1” WEATHERSEAL

ANGER CLIP

BERMUDA ROOF PANEL

CLIPS 20” O.C.

CLIPS 20” O.C.

BERMUDA ROOF PANEL

BP-5

PAGE/FILE

DATE: 08-15-06

BERMUDA PANEL SYSTEM

PANEL OVERVIEW

BERMUDA PANEL SYSTEM

BP-5
SPLICE PLATE DETAIL
SOLID SHEATHING
Bermuda Panel System

ANCHOR CLIP 20" O.C. MAX.
FASTENERS 4" O.C.
24 GA. FURRING SECTION 12" LONG
BERRIDGE BERMUDA ROOF PANEL
ANCHOR CLIP 4" O.C. AT SPLICE PLATE
# 30 FELT UNDERLAYMENT
SOLID SHEATHING
POP RIVET 4" O.C. RIVETS TO BE PLACED SO THAT THEY ARE "NOT EXPOSED".

SPLICE PLATE FOR EXPANSION AND CONTRACTION OF PANELS OVER 30'-0" LONG STAGGER JOINTS IN A RANDOM PATTERN, NOT A DIAGONAL OR STRAIGHT PATTERN
FLAT BEAD OF CAULK BETWEEN SPLICE PLATE & BERMUDA PANELS
APPLY 2 CONTINUOUS BEADS OF CAULK ALONG EACH SIDE BETWEEN SPLICE PLATE AND BERMUDA ROOF PANELS

REFER TO NOMINAL LINEAR EXPANSION CHART ON PAGE BPI-5

BERRIDGE BERMUDA ROOF PANEL
**SPLICE PLATE DETAIL**

**OPEN FRAMING**

**Bermuda Panel System**

**DATE:** 08-15-06

**PAGE/FILE**

BP-7

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**BERRIDGE**

**BERMUDA ROOF PANEL**

**ROOF SPLICE PLATE**

**PURLIN TO PURLIN**

**24 GA. Furring Section**

**CONTINUOUS PURLIN TO PURLIN**

**ANCHOR CLIP AT EACH PURLIN**

**POP RIVET 4" O.C.**

**RIVETS TO BE PLACED SO THAT THEY ARE "NOT EXPOSED".**

**FASTENERS AT EACH PURLIN**

**PURLIN**

**ANCHOR CLIP AT EACH PURLIN FOR SPLICE PLATE**

**REFER TO NOMINAL LINEAR EXPANSION CHART ON PAGE BPI-5**

**FLAT BEAD OF CAULK BETWEEN SPLICE PLATE & BERMUDA PANELS**

**APPLY 2 CONTINUOUS BEADS OF CAULK ALONG EACH SIDE BETWEEN SPLICE PLATE AND BERMUDA ROOF PANELS**

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**24 GA. Furring Section**

**CONTINUOUS PURLIN TO PURLIN**

**ANCHOR CLIP AT EACH PURLIN**

**FASTENERS AT EACH PURLIN**

**PURLIN**

**ANCHOR CLIP AT EACH PURLIN FOR SPLICE PLATE**

**REFER TO NOMINAL LINEAR EXPANSION CHART ON PAGE BPI-5**

---

**BERMUDA ROOF PANEL**

**SPLICE PLATE FOR**

**EXPANSION AND CONTRACTION OF PANELS OVER 30'-0" LONG**

**STAGGER JOINTS IN A RANDOM PATTERN, NOT A DIAGONAL OR STRAIGHT PATTERN**

**POP RIVET 4" O.C. RIVETS TO BE PLACED SO THAT THEY ARE "NOT EXPOSED".**

**24 GA. Furring Section**

**CONTINUOUS PURLIN TO PURLIN**

**ANCHOR CLIP AT EACH PURLIN**

**FLAT BEAD OF CAULK BETWEEN SPLICE PLATE & BERMUDA PANELS**

**APPLY 2 CONTINUOUS BEADS OF CAULK ALONG EACH SIDE BETWEEN SPLICE PLATE AND BERMUDA ROOF PANELS**

---

**BERMUDA PANELS BETWEEN SPLICE PLATE & OVER 30'-0" LONG RANDOM PATTERN, NOT A CONTRACTION OF PANELS STAGGER JOINTS IN A SPLICE PLATE FOR PATTERN EXPANSION AND BERMUDA ROOF PANELS BETWEEN SPLICE PLATE AND APPLY 2 CONTINUOUS BEADS OF CAULK ALONG EACH SIDE BETWEEN SPLICE PLATE AND BERMUDA ROOF PANELS**

---

**FLAT BEAD OF CAULK BETWEEN SPLICE PLATE & BERMUDA PANELS**

**APPLY 2 CONTINUOUS BEADS OF CAULK ALONG EACH SIDE BETWEEN SPLICE PLATE AND BERMUDA ROOF PANELS**
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

EAVE FLASHING

STARTER STRIP
1. All caulking and fasteners are items to be furnished and installed by the roofing installer at the discretion of the architect.
1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.

2. ALL FELT UNDERLAYMENT, CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
1. All caulking and fasteners are item to be furnished and installed by the roofing installer at the discretion of the architect.
1. SOLID SHEATHING (BY OTHERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS.

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

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

HIP DETAIL

HIP CAP; INSTALL WITH EACH COURSE OF PANEL (SEE BELOW)

BERRIDGE BERMUDA PANEL

# 30 FELT UNDERLAYMENT
SOLID SHEATHING

1/2" PLYWOOD OR EQUIVALENT

BERRIDGE BERMUDA PANEL
ABOVE HIP CAP, FIELD CUT TO ALIGN WITH LINE OF HIP

LINE OF HIP
3/4"
NAIL EACH SIDE OF HIP CAP

HIP CAP; INSTALL WITH EACH COURSE OF PANEL
BERRIDGE BERMUDA PANEL UNDER HIP CAP
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

F = FINISH SIDE

1/2"

1/2"

OPEN HEM

HIP FLASHING

3/4"

1 1/8"

F

4"

CHANNEL CLOSURE
SECTION VIEW

FIELD FORM END OF RIDGE FLASHING AND EXTEND UNDER CONTINUOUS CLEAT

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

FIELD TAPERED ZEE CLOSURE WITH CONTINUOUS CAULK UNDER ZEE CLOSURE

SOLID SHEATHING VALLEY FLASHING; 12" LAPS WITH CONTINUOUS CAULK AT LAPS

CONTINUOUS CLEAT; DO NOT CAULK ON OR UNDER CLEAT

BERRIDGE BERMUDA PANEL

PLAN VIEW

MAIN ROOF PANELS

RIDGE FLASHING

CONTINUOUS CLEAT

VALLEY FLASHING

DORMER PANEL

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

# 30 FELT UNDERLAYMENT

PLACE A DAB OF CAULK UNDER ZEE CLOSURE

DO NOT CAULK ON OR UNDER CLEAT

RIDGE TERMINATION AT DORMER VALLEY

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

2. ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
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1. All 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
- Counter Flashing
- Sub Flashing
- Closure Channel
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.

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FIELD FORM PANEL TO VALLEY

BERMUDA PANEL FIELD CUT AND LAP PANELS AT VALLEY
CONTINUOUS CAULK AT LAPS

NOTE; REFER TO BP-70 FOR VALLEY DETAIL
1. SOLID SHEATHING (BY OTHERS) TO BE A MINIMUM OF 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.

NOTE: DO NOT USE ANY FASTENERS THROUGH THE VALLEY FLASHING, EXCEPT AT LAPS (SEE DETAIL BP-73)

F = FINISH SIDE
**VALLEY DETAIL**

**ISOMETRIC**

Bermuda Panel System

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- **#30 Felt Underlayment**
- **Valley Flashing**
- **Continuous Bead of Caulk**
- **Anchor Clip**

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

**F = FINISH SIDE**

- **Open Hem**
- **Anchor Clip**

**2 Continuous Beads of Caulk at Laps**

**Valley Flashing Lap**

**F = Finish Side**
16 GA. HAT SECTION SIZED TO FIT OVER PURLIN AND TO ACCOMMODATE THE DEPTH OF THE "S" DECK.

NOTE: GRACE ICE AND WATERSHIELD TO BE USED FOR THIS CONDITION. DO NOT USE FELT AT THIS CONDITION. (SEE DETAIL BP-70 & BP-71)
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.
BERRIDGE BERMUDA PANEL

WRAP CURB WITH # 30 FELT UNDERLAYMENT AND SUB FLASHING

TURN CORNER WITH VERTICAL LEG OF FLASHING FROM BP-82

TURN CORNER WITH VERTICAL LEG OF STEP FLASHING, FROM BP-83

FIELD FORM STEP FLASHING VERTICAL LEG TO FORM TIGHT TO PANEL, 4” LAP WITH CONTINUOUS CAULK AT LAPS

TURN CORNER WITH VERTICAL LEG OF COUNTER FLASHING, FROM BP-82

CONTINUOUS CAULK AT ALL FLASHING LAPS

CARRY STEP FLASHING FROM BP-83 UNDER FLASHING FROM BP-82

NOTE: PANELS ARE TO BE FIELD CUT TO FIT TIGHT AROUND PENETRATION

BERRIDGE BERMUDA PANEL

SLOPE
1. SOLID SHEATHING IS REQUIRED AT THIS CONDITION WHEN THE BERMUDA PANEL IS USED OVER OPEN FRAMING (SEE DETAIL BP-84).

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

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

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

STEP FLASHING

SUB-FLASHING

CONTINUOUS BEAD OF CAULK

FLASHING BY EQUIPMENT MANUFACTURE

STEP FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS, SET FLASHING TIGHT ON TO PANEL

BERRIDGE BERMUDA PANEL;

# 30 FELT UNDERLAYMENT; TOP LAYER TO BE PARALLEL WITH ROOF SLOPE

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

FASTENERS; 20" O.C. MAX.

FASTENERS; 20" O.C. MAX.

FASTENERS EVERY 11" O.C. AT LOCATION OF MALE/FEMALE JOINT

CONTINUOUS BEAD OF CAULK

FIELD CUT PANEL AND TURN UP VERTICAL LEG AT END OF PANEL MINIMUM 2"

CONTINUOUS CAULK ALONG VERTICAL EDGE OF BERMUDA PANEL

FLASHING TIGHT ON TO PANEL CONTINUOUS BEAD OF CAULK

FASTENERS; 2 PER PANEL LEG

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

ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.
FOR ROOF PENETRATIONS LARGER THAN 4" IN DIA.

RF-84

Bermuda Panel System

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

16 GA. HAT SECTION PURLIN

BERRIDGE CORRUGATED S-DECK

EAVE

SEE SECTION

1'-0" MINIMUM

GRACE ICE AND WATER SHIELD

FLAT SHEET SUB-FLASHING

Run continuous to eave

SQUARE OR ROUND PENETRATION

SLOPE
BERRIDGE BERMUDA ROOF PANEL OVER SOLID WOOD SHEATHING WITH CLIPS

COMPONENTS:

1. BERRIDGE BERMUDA PANEL: 24 GA. (MIN. YIELD 40,000 PSI) COATED STEEL, 11" W X 1" HIGH.

2. BERMUDA PANEL CLIPS: ONE PIECE, FABRICATED FROM 24 GA. (MIN. YIELD 40,000 PSI) COATED STEEL. LOCATED AT PANEL LAPS, 2'-0" MAX. SPACING.

3. FASTENERS: USE ONE (1) NO. 10 PANCAKE HEAD "TEKS" SCREW STEEL SCREW PER CLIP LOCATION.

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

5. JOISTS: 2" X 4" @ 2'-0" O.C. MAX. W/#12 X 2" PAN HEAD WOOD SCREWS @ 12" O.C. MAX. @ PLYWOOD TO JOIST CONNECTION AND AT PLYWOOD ENDS.

6. FELT PAPER: 1 LAYER #30 ROOFING FELT, LAID HORIZONTALLY, EAVE TO RIDGE.