S-DECK PANEL
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A. BERRIDGE S-DECK PANEL: THE BERRIDGE S-DECK PANEL IS FACTORY FABRICATED TO A CONSTANT CORRUGATION DEPTH OF 7/8” AND A NOMINAL PANEL COVERAGE OF 32” OR 34.667”.

PANEL MAY BE ORDERED FROM THE FACTORY STRAIGHT OR CURVED (MINIMUM RADIUS 5’-0”). USED ICE AND WATERSHIELD AS UNDERLAYMENT UNDER CURVED ROOF.

PANELS ARE FABRICATED TO A MINIMUM LENGTH OF 5’-0” AND A MAXIMUM LENGTH OF 40’-0”.

B. MINIMUM SLOPE: THE S-DECK PANEL IS RECOMMENDED FOR ROOF SLOPES OF 3 ON 12 OR GREATER. SLOPES LESS CONSULT BERRIDGE MANUFACTURING COMPANY.

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 7/8” DEPTH) OR A MINIMUM OF 1/2” PLYWOOD SHEATHING TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS. CONTACT BERRIDGE MANUFACTURING’S ENGINEERING DEPARTMENT FOR USE OF ANY OTHER TYPE OF SOLID SHEATHING. (# 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.

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 JOINT ARE TIGHT AT ALL HIPS, VALLEYS AND RIDGES.

G. INSTALLATION OVER OPEN FRAMING: REFER TO ALLOWABLE UNIFORM LOAD TABLE PAGE SD-3.

FOR DIAPHRAGM CAPABILITIES OF “S” DECK CONSULT BERRIDGE TECHNICAL DEPT. PURLIN OR OTHER STRUCTURAL BRACING IN THE RESPONSIBILITY OF OTHERS.
H. OPEN FRAMING INSPECTION:
1. PURLINS SHOULD BE ALIGNED WITH TOP FLANGES IN THE SAME PLANE TO A TOLERANCE OF 1/4" IN 20'-0". UNEVENNESS IN THE TOP PLANE OF THE PURLINS WILL RESULT IN ABNORMAL "OIL-CANNING" OF PANELS. PURLINS SHALL BE ADEQUATELY BRACED.
2. BERRIDGE MANUFACTURING COMPANY RECOMMENDS SOLID SHEATHING IN VALLEY AND AROUND ROOF PENETRATIONS. DO NOT APPLY PANELS ON OPEN FRAMING AT VALLEYS OR ROOF PENETRATIONS WITHOUT REFERRING TO DETAILS SD-71 AND SD-85.
3. FOOT TRAFFIC IN 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 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 at certain other flashing conditions as depicted in the S-Deck panel 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.
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.
8. USE GRACE ICE AND WATERSHIELD AS UNDERLAYMENT FOR CURVED ROOFS.
9. VERIFY CORRECT METHOD OF INSTALLING ICE AND WATERSHIELD WITH ICE AND WATERSHIELD MANUFACTURE.

L. Electrolysis: Avoid allowing flashings and panels to come into contact with either lead, copper or other dissimilar metals and prevent exposure to water rundown from copper and/or lead.

M. Sealant Recommendations: TREMCO, INC. SPECTREM 1 SILICONE SEALANT.
DO NOT USE CLEAR CAULK.

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 degrees of angle.
O. FLASHING INSTALLATION:
REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS PRIOR TO INSTALLATION.
ALWAYS STAGGER JOINTS WHEN ONE FLASHING IS INSTALLED OVER OTHER FLASHINGS.
INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.
ALL FLASHINGS ARE TO BE DESIGNED AND INSTALLED TO AVOID TRAPPING WATER.

P. PANELS: BERRIDGE MANUFACTURING COMPANY WILL PROVIDE SQUARE END CUTS ONLY ON ALL S-DECK 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 OF THE ROOF AND WORK TOWARD THE OTHER GABLE.
3. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LAP. ANY CRIMPS OR BENDS MUST BE STRAIGHTENED PRIOR INSTALLATION.
4. KEEP PANELS ALIGNED SO THAT RIBS MATCH AT HIPS, VALLEYS AND WHERE VERTICAL PANELS ADJOIN ROOF PANELS. DO NOT INSTALL LONG CONTINUOUS RUNS OF PANELS ALL AT ONE TIME WHERE RIB 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 RIB MATCHING.
5. 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. FASTENERS: INSTALL FASTENERS AS PER TYPICAL DETAILS. USE #10 HEX HEAD ZINC PLATED FASTENER WITH METAL BACKED NEOPRENE FASTENER WHEN FASTENING TO WOOD. USE #12 HEX HEAD ZINC PLATED FASTENER WITH A METAL BACKED NEOPRENE WASHER 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 OVER DRIVE FASTENERS AS THIS WILL CAUSE THE CLIP AND/OR FLASHINGS TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.

* CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER SPACING TO MEET DESIGN CRITERIA AND 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 TO 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 S-DECK PANEL SYSTEM.

NOTE: ALL PRODUCT SPECIFICATIONS, DETAIL AND INSTALLATION INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.
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.
NOMINAL COVERAGE
32" OR 34.667"

SEE BELOW

SECTION PROPERTIES

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ALLOWABLE UNIFORM LOADS (PSF)

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<tr>
<td>.0239</td>
<td>104 77 58 46 37</td>
<td>88 55 37 25 20</td>
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1. SECTION PROPERTIES AND ALLOWABLE STRESSES HAVE BEEN CALCULATED IN ACCORDANCE WITH 1986 AISI SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

2. PANEL STEEL CONFORMS TO ASTM A653 GRADE C.

3. VALUES SHOWN AS ALLOWABLE LOADS ARE BASED ON PANELS COVERING THREE EQUAL CONTINUOUS SPANS. MULTIPLY THE VALUES BY 0.8 FOR TWO SPAN ALLOWABLE LOADS.

4. THE PANEL WEIGHT HAS BEEN DEDUCTED FROM THE ALLOWABLE LOAD TABLES.

5. THE ALLOWABLE LOADS SHOWN ABOVE MAY BE INCREASED BY 33% FOR WIND UPLIFT.

6. SHEER DIAPHRAGM VALUE = 210#/L.F. NOMINAL

1" TAPE SEALER

# 10 X 1" WITH METAL BACKED NEOPRENE WASHER

S-DECK PANEL SIDE LAP

OVERVIEW
S-DECK
S-Deck System

DATE: 05-14-09
PAGE/FILE
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S-Deck System

FASTENER LAYOUT

DATE: 05-14-09

PAGE/FILE

SD-4
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.

3. USE ICE AND WATERSHIELD AS UNDERLAYMENT FOR CURVED S-DECK.
1. 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.

3. USE ICE AND WATERSHIELD AS UNDERLAYMENT FOR CURVED S-DECK.
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.

F = FINISH SIDE
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.
RIDGE/HIP CAP; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS.

BERRIDGE S-DECK PANEL
OUTSIDE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM. USE 1" EXPANDABLE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM AT HIPS.

SUB FLASHING 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

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

SUB FLASHING

RIDGEBE/HIP CAP

1/2"

1/2"
SECTION VIEW

FIELD FORM END OF RIDGE FLASHING AND EXTEND UNDER UPPER PANEL

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

FIELD TAPERED OUTSIDE CLOSURE

SD-20

BERRIDGE S-DECK PANEL

1" EXPANDABLE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM

# 30 FELT UNDERLAYMENT

PANEL FASTENER WITH METAL BACKED NEOPRENE WASHER AT 5 1/2" O.C.

SOLID SHEATHING

VALLEY FLASHING; 12" LAPS WITH CONTINUOUS CAULK AT LAPS

PLAN VIEW

MAIN ROOF PANELS

RIDGE FLASHING

INSIDE FOAM CLOSURE

VALLEY FLASHING

DORMER PANEL

RIDG TERMINATION AT DORMER VALLEY

S-Deck 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.

CONTINUOUS BEAD OF CAULK

GABLE CHANNEL 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

1" EXPANDABLE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM

CONTINUOUS BEAD OF CAULK

FASTENERS; 20" O.C. MAX.

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

F = FINISH SIDE

GABLE CHANNEL

DRIP FLASHING
CONTINUOUS BEAD OF CAULK

GABLE CHANNEL; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

1" EXPANDABLE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM.

CONTINUOUS BEAD OF CAULK

FASTENERS; 20" O.C. WITH METAL BACKED NEOPRENE WASHER

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

OUTSIDE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM

BERRIDGE S-DECK PANEL

FASTENER AT EVERY PURLIN

FASTENER 20" O.C. MAX

PURLIN

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

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

3. UNDERLAYMENT TO BE ICE AND WATERSHIELD FOR CURVED PANELS.

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

FASTENERS WITH METAL BACKED NEOPRENE WASHER 20" O.C. MAX.

1" EXPANDABLE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM.

# 30 FELT UNDERLAYMENT

TOP LAYER OF FELT TO BE PARALLEL WITH ROOF SLOPE

FASTENERS; 20" O.C. MAX.

SOLID SHEATHING

CONTINUOUS BEAD OF CAULK

BERRIDGE S-DECK PANEL

F = FINISH SIDE

DRIP FLASHING

1/2"
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 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

COUNTERFLASHING

SUB-FLASHING

SOLID SHEATHING

# 30 FELT UNDERLAYMENT

FASTENERS; 20" O.C. MAX.

PANEL FASTENERS; WITH METAL BACKED NEOPRENE WASHER

BERRIDGE S-DECK PANEL

COUNTERFLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS.

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

INSIDE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM.

OUTSIDE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM.

FASTENERS; WITH METAL BACKED NEOPRENE WASHER. 20" O.C.
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

COUNTERFLASHING

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

FASTENERS; 20" O.C. MAX.

COUNTERFLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS.

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

#30 FELT UNDERLAYMENT

BERRIDGE S-DECK PANEL

OUTSIDE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM.

SOLID SHEATHING

CONTINUOUS CAULK AT REGLET

CONTINUOUS BEAD OF CAULK

PANEL FASTENERS WITH METAL BACKED NEOPRENE WASHER.

FASTENERS WITH METAL BACKED NEOPRENE WASHER. 20" O.C.

REGLET
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.

# 30 FELT UNDERLAYMENT

FASTENERS 20" O.C. MAX.

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

RAKE CHANNEL 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

1" EXPANDABLE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM.

TOP LAYER OF FELT TO BE PARALLEL WITH ROOF SLOPE

SOLID SHEATHING

BERRIDGE WALL PANEL
COUNTER FLASHING
4" END LAPS WITH CONTINUOUS CAULK AT LAPS

SPECIAL CHANNEL CLOSURE
BUTT END JOINTS FOR WEEP

CONTINUOUS BEAD OF CAULK

BERRIDGE S-DECK PANEL

# 30 FELT UNDERLAYMENT

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

F = FINISH SIDE

SUB FLASHING
COUNTER FLASHING

RAKE CHANNEL

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

3. UNDERLAYMENT TO BE ICE AND WATERSHIELD FOR CURVED 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.
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.
BERRIDGE S-DECK PANEL
CONTINUOUS BEAD OF CAULK BETWEEN VALLEY FLASHING AND FELT UNDERLAYMENT

1" EXPANDABLE FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM

FASTENERS 20" O.C. MAX.

PANEL FASTENER WITH METAL BACKED NEOPRENE WASHER AT 5 1/2" O.C.

GRACE ICE AND WATER SHIELD

VALLEY FLASHING 12" END LAPS WITH (2) CONTINUOUS BEADS CAULK AT LAPS

FLAT SHEET VALLEY SUB-FLASHING

BERRIDGE CORRUGATED S-DECK

SEE SECTION

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

16 GA. HAT SECTION

PURLIN

BERRIDGE CORRUGATED S-DECK SECTION

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

SLOPE

EAVE

PURLINS

12" END LAPS WITH (2) CONTINUOUS BEADS CAULK AT LAPS

BERRIDGE CORRUGATED S-DECK

Flat Sheet Valley Sub-Flashing

BERRIDGE S-DECKPanel

SEE SECTION

Metal Backed Neoprene Washer at 5 1/2" O.C.
PIPE PENETRATION (PREFERRED METHOD)
IN PAN OF PANEL ONLY
4" DIA. OR LESS

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

NOTE: POSITION SQUARE BASED BOOTS IN A DIAMOND ORIENTATION WHERE POSSIBLE TO AID IN DIVERTING WATER.
FIELD CUT PANEL ALONG DOTTED LINE AND INSTALL PANEL. INSTALL FLASHING "A" FIRST ALONG WITH FOAM CLOSURE. INSTALL FLASHING "B" SECOND. CAULK ALL FLASHING LAPS. INSTALL FLASHING "C" LAST. THIS FLASHING IS TO BE SLIPPED UNDER THE S-DECK PANEL AND FELT AS SHOWN IN DETAIL SD-84 BEFORE THE FOAM CLOSURE OR FASTENERS ARE INSTALLED. SEE ALSO DETAILS SD-82 AND SD-83 FOR FELTING AND SUBFLASHING.
1. 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
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.
S-Deck System

For roof penetrations larger than 4" in dia.

Carry up to next purlin

1'-0" minimum

Square or round penetration

Grace ice and water shield run continuous to eave

Flat sheet sub-flashing run continuous to eave

Berridge corrugated S-Deck

Purlins

Eave

See section

16 ga. hat section size to fit over purlin and to accommodate the depth of the Berridge corrugated S-Deck.

Flat sheet sub-flashing

Grace ice and water shield

16 ga. hat section

Purlin

Berridge corrugated S-Deck

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

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RAKE CHANNEL
SUB-FLASHING
OUTSIDE CORNER FLASHING

DATE: 11-20-00
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BERRIDGE MANUFACTURING COMPANY
OUTSIDE CORNER SOLID SHEATHING
S-Deck System
1. All 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.

F = Finish Side

RAKE CHANNEL

SUB-FLASHING

OUTSIDE CORNER FLASHING
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CORNER FLASHING

SUB-FLASHING
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