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A. BERRIDGE VICTORIAN AND CLASSIC SHINGLES:
BERRIDGE VICTORIAN AND CLASSIC SHINGLES HAVE AN EXPOSURE OF 9" X 12"

B. MINIMUM SLOPE: THE VICTORIAN AND CLASSIC SHINGLES ARE RECOMMENDED FOR SLOPES
OF 3:12 OR GREATER.

C. MATERIAL STORAGE: CAUTION MUST BE EXERCISED IN STORAGE OF MATERIALS PRIOR
TO INSTALLATION. KEEP ALL BERRIDGE PREFINISHED MATERIAL IN A DRY LOCATION WITH
ADEQUATE VENTILATION AND OUT OF DIRECT SUNLIGHT.

EXPOSURE TO DIRECT SUNLIGHT AND/OR MOISTURE MAY CAUSE THE FACTORY APPLIED
STRIPPABLE PLASTIC FILM TO ADHERE TO THE METAL PERMANENTLY AND DISCOLOR THE
FINISH.

D. STRIPPABLE FILM: THE STRIPPABLE 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 A MINIMUM OF 1/2" SOLID WOOD SHEATHING TO PROVIDE SUFFICIENT
HOLDING POWER FOR FASTENERS. CONTACT BERRIDGE MANUFACTURING'S ENGINEERING
DEPARTMENT FOR USE OF ANY OTHER TYPE OF SOLID SHEATHING.

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 OF JOINTS DO NOT REMAIN FLAT
UNDER THE WEIGHT OF WORKMEN.
4. USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN. 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. 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 ROOF SUBSTRATE SHEATHING.

H. 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 VICTORIAN AND CLASSIC TYPICAL DETAILS. GRACE ICE AND WATER SHIELD
MAYBE REQUIRED ON LOW SLOPED ROOFS OR AT CERTAIN FLASHING CONDITIONS.
I. **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 SLOPE IS 3:12. 2 LAYERS REQUIRED AT EAVE REGARDLESS OF SLOPE.
   6. INSULATE BETWEEN WOOD BLOCKING AND METAL WITH FELT OR ICE AND WATER SHIELD.

J. **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.

K. **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.

L. **FLASHING INSTALLATION:**
   1. REMOVE STRIPPABLE PLASTIC FILM FROM EACH SHINGLE PRIOR TO INSTALLATION.
   2. START AT LOWER LEFT EAVE CORNER AND STAGGER AS SHOWN ON DETAIL VS-5 AND CS-5.
   3. USE CHALK LINES TO KEEP SHINGLES STRAIGHT.
   4. SHINGLES INTERLOCK AT SIDE LAP AND OVERLAP FROM COURSE TO COURSE.
   5. WHEN SHINGLES REACH THE VALLEY OR HIP TRIM THE SHINGLES SO THAT THEY FIT TIGHT INTO J-CLIPS.

N. **FASTENERS:** NAIL SHINGLES THROUGH LOCK SEAM WITH A MINIMUM OF (2) 1-1/4" GALVANIZED ROOFING NAILS.

   MAKE SURE ALL FASTENERS ARE DRIVEN STRAIGHT AND SET FLAT. DO NOT OVERDRIVE FASTENERS, AS THIS WILL CAUSE BUCKLING OF SHINGLES.

O. **SEALANT RECOMMENDATIONS:** TREMCO INC. SPECTREM 1 OR EQUAL. DO NOT USE CLEAR CAULK

   **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 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, IMPROPER HANDLING, OR FOOT TRAFFIC ON THE PANELS.

ALL ARCHITECTURAL PRODUCTS 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 VICTORIAN OR CLASSIC SHINGLES.

NOTE: ALL PRODUCTS, SPECIFICATIONS, DETAILS, AND INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE MANUFACTURING COMPANY.
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 THE 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 JOINT ADEQUATELY CAULKED, AND PROFESSIONAL WORKMANSHIP EMPLOYED.
Minimum 2 fasteners at lock seam

Field cut 1/2 shingle to create staggered pattern

Berridge Victorian Shingles

Berridge Victorian Shingle

Lock Seam

12" Exposure

9" Exposure

Overview

Victorian Shingle
OVERVIEW

Classic Shingle

START AT EAVE, WORK FROM LEFT TO RIGHT

LOCK SEAM

FIELD CUT 1/2 SHINGLE TO CREATE STAGGERED PATTERN

BERRIDGE CLASSIC SHINGLES

MINIMUM 2 FASTENERS AT LOCK SEAM

BERRIDGE CLASSIC SHINGLES

12" EXPOSURE

9" EXPOSURE
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; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

1/4"

# 30 FELT UNDERLAYMENT
FASTENERS, 20" O.C. MAX.
SOLID SHEATHING
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
SHED RIDGE CAP; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS, POP RIVET TO J-CLIP AT 20" O.C. MAX. CAULK RIVET HEADS

CONTINUOUS BEAD OF CAULK

J-CLIP

BERRIDGE VICTORIAN OR CLASSIC SHINGLE

# 30 FELT UNDERLAYMENT

LAP FELT OVER RIDGE

FASTENERS; 40" O.C. MAX. CAULK FASTENER HEAD

SOLID SHEATHING

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

SHED RIDGE CAP

1/2"

3" MIN.

1/2"

1/4"

F

J-CLIP

PAGE/FILE

VC-21

DATE: 05-02-02

SHED ROOF RIDGE CAP DETAIL

Victorian or Classic Shingles

BERRIDGE MANUFACTURING COMPANY

Roofs of Distinction
**SECTION VIEW**

FIELD FORM END OF RIDGE FLASHING AND EXTEND UNDER J-CLIP

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

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

J-CLIP; DO NOT CAULK ON OR UNDER

BERRIDGE VICTORIAN OR CLASSIC SHINGLE

# 30 FELT UNDERLAYMENT

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

**PLAN VIEW**

MAIN ROOF

RIDGE FLASHING

CONTINUOUS J-CLIP

VALLEY FLASHING

DORMER ROOF

RIDGE TERMINATION AT DORMER VALLEY

Victorian or Classic Shingles

DATE: 05-02-02

PAGE/FIELD VC-22
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F = FINISH SIDE

FASTEN THROUGH VALLEY UNDER LAP, NO FASTENERS TOP (OVERLAPPING) VALLEY

2 CONTINUOUS BEADS OF CAULK AT LAPS

ONLY AT TOP OF FLASHING ARE TO BE EXPOSED ON
ROOF PIPE PENETRATION OF 4" IN DIA. OR LESS

RUBBERIZED BOOT FLASHING

CONTINUOUS CAULK

PIPE PENETRATION TO BE IN BODY OF SHINGLE

BERRIDGE VICTORIAN OR CLASSIC SHINGLE

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

# 30 FELT UNDERLAYMENT

CUT SHINGLE 1" SMALLER THAN PENETRATION, BACK CUT TABS, FOLD TABS UP AROUND PENETRATION, AND CAULK.

SOLID SHEATHING

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.
NOTE: SHINGLES ARE TO BE FIELD CUT TO FIT TIGHT AROUND PENETRATION

TURN CORNER WITH VERTICAL LEG OF FLASHING FROM VC-84

TURN CORNER WITH VERTICAL LEG OF FLASHING FROM VC-82

CARRY FLASHING FROM VC-82 UNDER VC-84 FROM VC-84

CARRY FLASHING FROM VC-83 UNDER VC-82 FROM VC-84

J-CLIP

VEN PENEATION
RECTANGULAR/SQUARE

Victorian or Classic Shingles
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

COUNTER FLASHING

FLASHING

SUB FLASHING

CONTINUOUS BEAD OF CAULK BETWEEN FLASHING AND FELT UNDERLAYMENT

FASTENERS, 20" O.C., PLACE A DAB OF CAULK AT FASTENER LOCATIONS, DRIVE FASTENERS AND CAULK FASTENER HEADS

# 30 FELT UNDERLAYMENT

BERRIDGE VICTORIAN OR CLASSIC SHINGLE

J-CLIP BUTT ENDS FOR WEEP, DO NOT CAULK IN OR UNDER J-CLIP

FASTENERS; 20" O.C. MAX.

CONTINUOUS BEAD OF CAULK

FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

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

1/2"

3" MIN.

9" MIN.