# INDEX

<table>
<thead>
<tr>
<th>Page</th>
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<tbody>
<tr>
<td>0</td>
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<tr>
<td>1</td>
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<td>61</td>
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<td>71</td>
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<td>72</td>
</tr>
</tbody>
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1. BERRIDGE FISH SCALE SHINGLE: HAS AN EXPOSURE OF NOMINAL 11–1/2” X 8 1/2”
   AND HAS A DEPTH OF 5/16” AT BOTTOM OF SHINGLE AND FLUSH AT THE TOP.
   THE SHINGLE IS FACTORY FABRICATED. WITH 148 SHINGLES PER SQUARE.

GENERAL NOTES
1. SHINGLES MAY BE USED FOR GABLE, SIDEWALL, FASCIA OR
   MANSARD WITH 80 DEGREE + SLOPE.

2. SHINGLES TO BE INSTALLED OVER SOLID SHEATHING.

A. MATERIAL STORAGE: CAUTION MUST BE EXERCISED IN THE STORAGE OF MATERIALS PRIOR
   TO INSTALLATION. KEEP ALL BERRIDGE PRE FINISHED 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 PROTECTIVE PLASTIC FILM TO ADHERE TO THE METAL PERMANENTLY AND
   CAUSE DISCOLORATION OF THE FINISH.

B. STRIPPABLE PROTECTIVE FILM: THE STRIPPABLE PLASTIC FILM WHICH IS APPLIED OVER
   MOST BERRIDGE PRE FINISHED PRODUCTS, PANELS, FLASHINGS, COILS AND SHEETS
   PROVIDES PROTECTION OF THE FINISH DURING FABRICATION AND TRANSIT. THIS FILM
   MUST BE REMOVED PRIOR TO INSTALLATION.

C. SHEATHING: SOLID SHEATHING IS TO BE EITHER BERRIDGE 24 GA "S–DECK"
   CORRUGATED METAL DECKING OR A MINIMUM OF 1/2” SOLID WOOD SHEATHING TO
   PROVIDE SUFFICIENT HOLDING STRENGTH FOR FASTENERS. SHEATHING TO BE
   IN PLANE ± 1/4” IN 20’.

D. FELT UNDERLAYMENT: USE NUMBER THIRTY (# 30) FELT PAPER (OR EQUAL) BENEATH
   SHINGLES. INSTALL FELT PARALLEL TO BASE OF PANELS, STARTING AT THE BOTTOM AND
   USING MINIMUM 6” LAPS. USE ONLY BERRIDGE COATED FELT CAPS TO PREVENT RUST.
   USE ONLY GALVANIZED OR COATED FASTENERS.

   MINIMUM # 30 FELT UNDERLAYMENT AT STRAIGHT WALL APPLICATIONS; GRACE ICE &
   WATERSHIELD UNDERLAYMENT (OR EQUAL) AT MANSARD APPLICATIONS (MANSARDS 80
   DEGREE + SLOPE

   DO NOT USE RED ROSIN PAPER WITH ANY BERRIDGE MANUFACTURING PRODUCT.

E. SEALANT RECOMMENDATIONS: TREMCO SPECTRUM ONE SILICONE SEALANT.
   DO NOT USE CLEAR CAULK.

F. ELECTROLYSIS: AVOID ALLOWING FLASHINGS AND SHINGLES TO COME INTO CONTACT WITH
   EITHER LEAD OR COPPER, AND PREVENT EXPOSURE TO WATER RUN OFF FROM LEAD
   AND/OR COPPER.

G. STRUCTURAL FRAMING: PRIOR TO SHINGLE INSTALLATION, INSPECT SIDEWALL, FASCIA OR
   OTHER FRAMING TO DETERMINE:
   1. FRAMING MUST BE SQUARE AND PLUMB.
   2. INSURE THAT SIDEWALL COLUMNS AND GIRTS ARE IN THE SAME PLANE, PLUS OR
      MINUS 1/4” IN 20’.

H. FLASHING: IF BERRIDGE MANUFACTURING COMPANY IS TO SUPPLY FLASHINGS, THEY WILL
   BE FABRICATED IN 10’–0” LENGTHS WITH SQUARE END CUTS ONLY. THE PURCHASER
   MUST PROVIDE ALL DIMENSION AND DEGREE OF ANGLES.
I. FLASHING INSTALLATION: FIRST, REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS, THEN INSTALL ACCORDING TO BERRIDGE TYPICAL INSTALLATION DETAILS. ALWAYS STAGGER FLASHING JOINTS WHEN ONE FLASHING IS INSTALLED OVER OTHER FLASHINGS.

J. SHINGLE INSTALLATION:
1. REMOVE STRIPPABLE PLASTIC FILM FROM EACH SHINGLE PRIOR TO INSTALLATION.
2. START SHINGLE INSTALLATION FROM BOTTOM OF WALL OR SILL AND WORK UP TO TOP OF WALL.
3. KEEP EACH SHINGLE TIGHT AGAINST THE ADJOINING SHINGLE.
4. SHINGLE SIDE JOINTS SHALL BE PERPENDICULAR TO SILL.

K. 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 STAINS.*

MAKE SURE ALL FASTENERS ARE DRIVEN STRAIGHT AND SET FLAT. DO NOT OVERDRIVE FASTENERS, AS THIS WILL CAUSE THE SHINGLE AND OR FLASHING TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.

ALL FASTENERS ARE TO BE GALVANIZED, STAINLESS STEEL OR COATED.

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, OR IMPROPER FELT INSTALLATION.

ALL ARCHITECTURAL SHINGLES REQUIRE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING OR DEFORMING THE SHINGLES.

*CONSULT BERRIDGE MANUFACTURING’S ENGINEERING DEPARTMENT REGARDING FASTENER SPACING TO MEET DESIGN CRITERIA, AND THE USE OF ANY OTHER TYPE OF FASTENER.
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 FISH SCALE SHINGLE  
HISTORICAL PRODUCT INSTALLED OVER SOLID SHEATHING; FOR GABLE, SIDEWALL, FASCIA OR MANSARD (80 DEGREE + SLOPE)  
EACH SHINGLE IS STAMPED WITH TWO SCALE MODULES PER SHINGLE. THE EXPOSURE TO THE WEATHER SHALL BE 8-1/2" BY 11-1/2" PER SHINGLE.

GABLE END WALL

# .30 FELT UNDERLAYERMENT
GRACE ICE & WATERSHIELD AT MANSARD
SOLID SHEATHING MINIMUM 1/2" PLYWOOD

BERRIDGE FISH SCALE SHINGLE FASTEN TO PLYWOOD, FOR FASTENER PATTERN SEE DETAIL BELOW

BERRIDGE FISH SCALE SHINGLE SYSTEM

FISH SCALE SHINGLE DETAIL

SHINGLE OVERVIEW

DATE: 03/22/08
PAGE/FILE FSS-1

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.
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F = FINISH SIDE

DRIP FLASHING

DATE: 03/22/08

FSS-II

FASCIA DETAIL
BELOW GABLE

FISH SCALE SHINGLE
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FASCIA
OUTSIDE CORNER DETAIL
FISH SCALE SHINGLE
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SOFFIT ANGLE

DRIP FLASHING
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DRIP FLASHING

5/8"

1/2"

3 1/4"

3 4"
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F = FINISH SIDE

CHANNEL CLOSURE

3/4"

5/8"

4"
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F = FINISH SIDE

CHANNEL CLOSURE
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F = FINISH SIDE

OPEN HEM

SILL FLASHING

CONTINUOUS CLEAT
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

CHANNEL CLOSURE

CORNER FLASHING

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OUTSIDE CORNER DETAIL

FISH SCALE SHINGLE
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F = FINISH SIDE

COUNTERFLASHING

SUB-FLASHING

OPEN HEM

ZEE CLOSURE

DATE: 03/22/08

HEAD WALL DETAIL

FISH SCALE SHINGLE

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