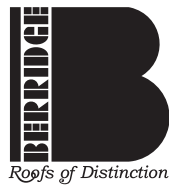


CURVED FLAT SEAM INSTALLATION DETAILS



BERRIDGE
MANUFACTURING
COMPANY

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**Berridge
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Roofs of Distinction

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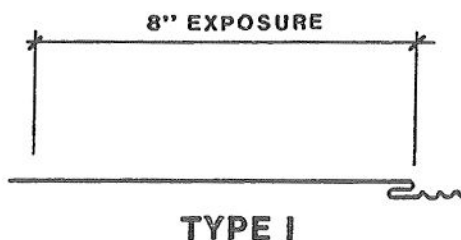
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FLAT SEAM PANEL

FS-0

- A. **BERRIDGE FLAT SEAM PANEL:** IS DESIGNED FOR APPLICATIONS ON CURVED SURFACES OVER SOLID SHEATHING ONLY. THE PANELS ARE SHIPPED FLAT AND FIELD FORMED TO REQUIRED RADIUS. TWO TYPES OF PANEL ARE AVAILABLE; THE BERRIDGE FLAT SEAM PANEL TYPE I AND THE BERRIDGE FLAT SEAM PANEL TYPE III. PLEASE SEE ILLUSTRATIONS BELOW:

BERRIDGE FLAT SEAM PANEL TYPES:



- B. **MINIMUM AND MAXIMUM RADIUS:** THE MINIMUM RADIUS OVER WHICH THE BERRIDGE FLAT SEAM PANEL CAN BE CURVED IS 2' - 0". THERE IS NO RESTRICTION ON THE MAXIMUM RADIUS OTHER THAN THE REQUIREMENT FOR AN ADEQUATE SLOPE TO PROVIDE DRAINAGE AND AVOID PONDING OF WATER OR BUILD UP OF SNOW AND ICE.
- 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 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 GAUGE CORRUGATED METAL (NOMINAL 2-1/2" PITCH 11/16" DEPTH) OR A MINIMUM OF 1/2" SOLID WOOD SHEATHING TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS. CONTACT BERRIDGE MANUFACTURING COMPANY'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 IF JOINTS DO NOT REMAIN FLAT UNDER THE WEIGHT OF WORKMEN.
 4. USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN; UNEVEN SUBSTRATE CAN RESULT IN "OIL-CANNING" IN PANELS.
 5. ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.



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INSTALLATION INSTRUCTIONS

FLAT SEAM PANEL

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FSI-1

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 SHEATHING.

H. FELT UNDERLAYMENT: A SINGLE LAYER OF THIRTY POUND 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 THIRTY POUND FELT IS RECOMMENDED WHERE THE RADIUS DOES NOT PERMIT AT LEAST A RISE OF 3" PER 12" OF HORIZONTAL RUN, AT ALL VALLEY CONDITIONS, AT ROOF PENETRATIONS AND CERTAIN OTHER FLASHING CONDITIONS AS DEPICTED IN THE *FLAT SEAM TYPICAL DETAILS*.

I. FELT INSTALLATION:

1. SWEEP ROOF AREA CLEAN.
2. USE METAL FELTING HOLD DOWN STRIPS AS PER BERRIDGE FELTING DETAIL F-10 WHEN CORRUGATED SHEATHING IS SPECIFIED.
3. USE FLAT HEAD GALVANIZED ROOFING NAILS X 1-1/4" LONG WHEN WOOD SHEATHING IS SPECIFIED
4. INSTALL VALLEY FELT FIRST.
5. INSTALL FELT PARALLEL TO EAVE, STARTING AT EAVE AND USING MINIMUM 6" ENDLAPS.

J. THERMAL MOVEMENT: EXPANSION AND CONTRACTION OF METAL PANELS WHICH EXCEED THIRTY FEET IN LENGTH CAN BE A FACTOR IN THE DESIGN AND INSTALLATION OF FLASHINGS. PLEASE REFER TO THE CHART ON PAGE FSI-5 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 AND/OR CAUSE FLASHING TO WORK LOOSE FROM ITS ANCHORAGE.

K. GALVALUME: WHEN USING PLAIN GALVALUME, AVOID ALLOWING GALVALUME SHEETS TO COME INTO CONTACT WITH EITHER LEAD OR COPPER, AND PREVENT EXPOSURE OF GALVALUME TO WATER RUNDOWN FROM COPPER.

L. 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.

M. FLASHING INSTALLATION:

1. REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS.
2. ALWAYS STAGGER JOINTS WHEN ONE FLASHING IS INSTALLED OVER OTHER FLASHINGS.

DATE

12/1/89

INSTALLATION INSTRUCTIONS

FSI-2

FLAT SEAM PANEL



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Roofs of Distinction

3. INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.

- N. **PANELS:** BERRIDGE MANUFACTURING COMPANY WILL PROVIDE SQUARE END CUTS ONLY ON ALL FLAT SEAM PANELS. COMPUTATION OF ALL QUANTITIES AND DIMENSIONS ARE THE RESPONSIBILITY OF THE PURCHASER.

THE BERRIDGE FLAT SEAM PANEL IS DESIGNED FOR CURVED APPLICATIONS. PANELS ARE FIELD FORMED TO REQUIRED RADIUS BY A BARREL TYPE ROLLER OR BY HAND, DEPENDING ON THE RADIUS. IT IS RECOMMENDED THAT A FLAT SCRAP PIECE OF METAL THE SAME LENGTH AS THE PANELS BE PLACED INTO THE FEMALE NAILER LEG DURING THE BENDING OF THE PANELS; THIS WILL KEEP THE PANEL SEAM FROM BEING KINKED.

FOOT TRAFFIC ON THE PANELS MUST BE AVOIDED. ARCHITECTURAL PANELS ARE DESIGNED FOR AESTHETICS AND CAN BE EASILY DAMAGED OR DEFORMED IF EXTREME CARE IS NOT USED.

O. **PANEL INSTALLATION:**

1. REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL PRIOR TO INSTALLATION.
2. PANEL SEAMS SHALL RUN PERPENDICULAR TO THE EAVE.
3. START PANEL INSTALLATION AT ONE GABLE END, WORKING TOWARD THE OPPOSITE GABLE.
4. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT GAPS BETWEEN THE MALE AND FEMALE LEGS. ANY CRIMPS IN THE LEGS MUST BE STRAIGHTENED (TOTALLY STRAIGHT, WITHOUT ANY BENDS, CRIMPS, CREASES, ETC.) PRIOR TO PANEL INSTALLATION.
5. PROVIDE A CONTINUOUS BEAD OF CAULK AT THE FEMALE NAILER LEG A MINIMUM 1/3 OFF HORIZONTAL OR AS REQUIRED. REFER TO *FLAT SEAM PANEL DETAILS FS-5 AND FS-6*.
6. KEEP PANELS ALIGNED SO THAT SEAMS MATCH AT HIPS, VALLEYS AND WHERE VERTICAL PANELS ADJOIN ROOF PANELS.

7. **COPPER-COTE™ZINC-COTE™LEAD-COTE™CHAMPAGNE & 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.

- P. **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 **TEK** FASTENERS (ZINC-PLATED SCREW W/PHILLIPS INSERT, AS MADE BY CONSTRUCTION FASTENERS CO.) FOR INSTALLATION TO METAL. WHEN USING POP RIVETS, ALUMINUM OR STAINLESS STEEL RIVETS ARE RECOMMENDED TO AVOID RUST STAINS.

SEALANT RECOMMENDATIONS: TREMCO, INC. SPECTREM 1 SILICONE SEALANT.



**Berridge
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INSTALLATION INSTRUCTIONS

FLAT SEAM PANEL

DATE

6/2/92

FSI-3

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


CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING THE USE OF ANY OTHER TYPE OF FASTENERS.

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 FOOT TRAFFIC ON THE PANELS.

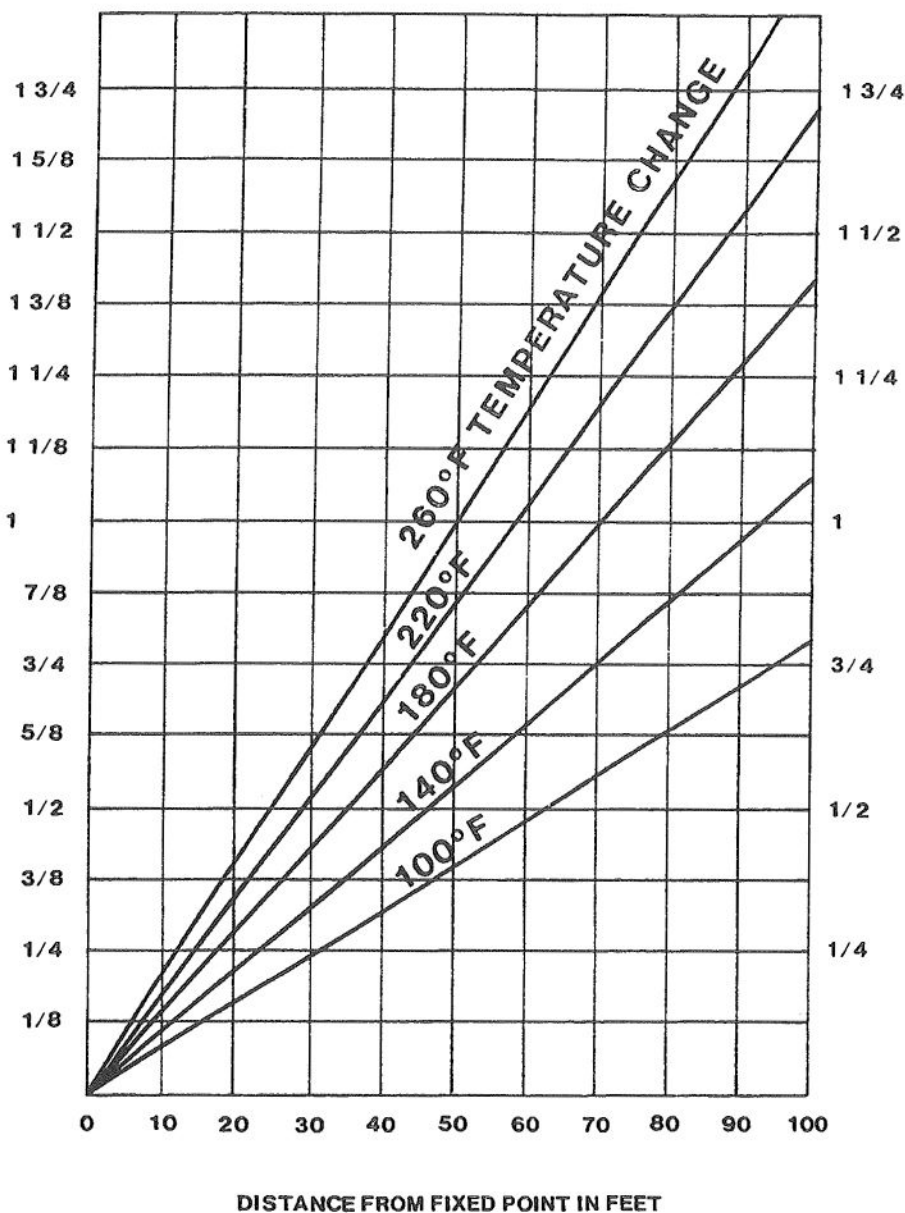
ALL ARCHITECTURAL PANELS REQUIRE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING OR DEFORMING THE PANELS.

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 FLAT SEAM PANEL SYSTEM.

NOTE: ALL PRODUCT SPECIFICATIONS, DETAILS & INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.

DATE 12/1/89	INSTALLATION INSTRUCTIONS	 Berridge Manufacturing Co. <i>Roofs of Distinction</i>
FSI-4	FLAT SEAM PANEL	

TOTAL MOVEMENT - INCHES - FOR STEEL PANELS



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, END WALLS, 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.



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INSTALLATION INSTRUCTIONS NOMINAL LINEAR EXPANSION

FLAT SEAM PANEL

DATE
12/1/89

FSI-5

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 A LACK OF WATER-TIGHTNESS AS A RESULT OF FOLLOWING THESE RECOMMENDED DETAILS. ENSURING WATER-TIGHTNESS 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 WATER-TIGHTNESS.

THE INSTALLER CAN VIRTUALLY ASSURE WATER-TIGHTNESS 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

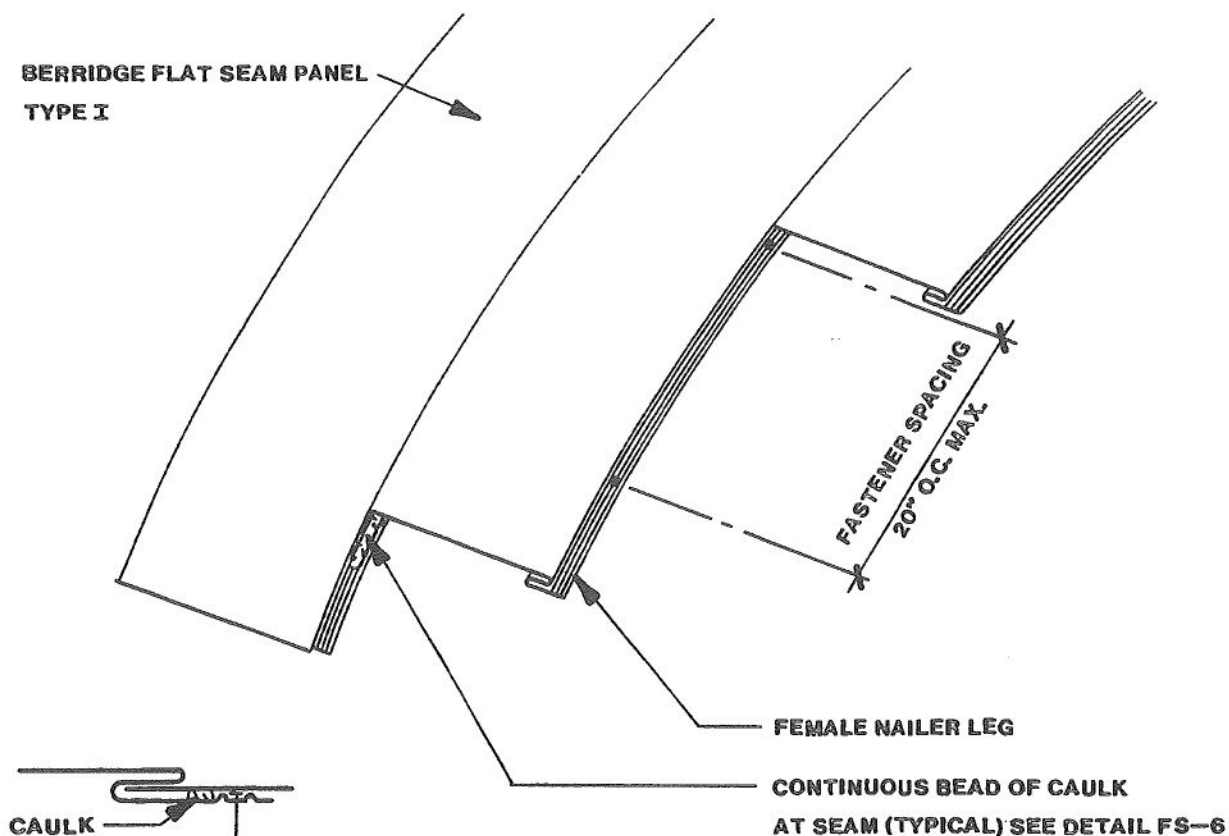
FLAT SEAM PANEL

DATE

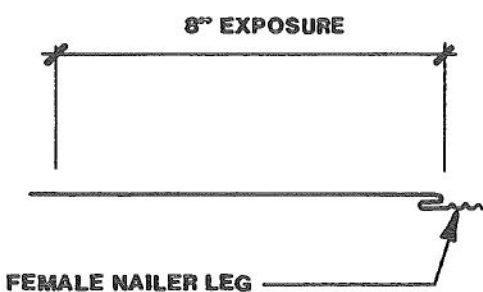
12/1/89

FS-4

**BERRIDGE FLAT SEAM PANEL
TYPE I**



SEAM CAULK DETAIL



TYPE I FLAT SEAM PANEL

NOTE : FLAT SEAM PANELS ARE RECOMMENDED FOR CURVED APPLICATIONS ONLY.



**Berridge
Manufacturing Co.**

Roofs of Distinction

OVERVIEW

FLAT SEAM PANEL

DATE

12 / 1 / 89

FS-5

CAULK SEAM MIN. 1/3 OFF HORIZONTAL OR AS REQUIRED

30# FELT UNDERLAYMENT

BERRIDGE CORRUGATED

METAL SHEATHING

STRUCTURAL FRAMING

MEMBERS

BERRIDGE FLAT

SEAM PANEL

2'-0" MIN. RADIUS

VARIES

FS-10,FS-11,FS-12

FOR RIDGE CAP,
PARAPET & OR END
WALL CONDITIONS
SEE DETAILS FS-20,
FS-40,FS-50,FS-51

FOR GABLE & OR RAKE
WALL CONDITIONS
SEE DETAILS FS-30,
FS-31,FS-52,FS-53,
FS-54

CAULK SEAM MIN. 1/3 OFF HORIZONTAL OR AS REQUIRED

30# FELT UNDERLAYMENT

BERRIDGE CORRUGATED

METAL SHEATHING

STRUCTURAL FRAMING

MEMBERS

BERRIDGE FLAT

SEAM PANEL

2'-0" MIN. RADIUS

FS-10,FS-11,FS-12

FOR RIDGE CAP,
PARAPET & OR END
WALL CONDITIONS
SEE DETAILS FS-20,
FS-40,FS-50,FS-51

FOR GABLE & OR RAKE
WALL CONDITIONS
SEE DETAILS FS-30,
FS-31,FS-52,FS-53,
FS-54

DATE

12/1/89

CANOPY SECTIONS
CONVEX

FS-6

FLAT SEAM PANEL



Berridge
Manufacturing Co.

Roofs of Distinction

BERRIDGE FLAT SEAM PANEL,
FASTENERS AT FEMALE
MAILER LEG 20" O.C. MAX.

30# FELT UNDERLAYMENT

FASTENERS, 20" O.C. MAX.

J-CLIP

DRIP FLASHING, 2" END
LAPS WITH CONTINUOUS
CAULK AT LAPS

FASCIA

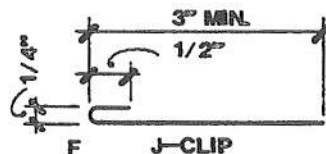
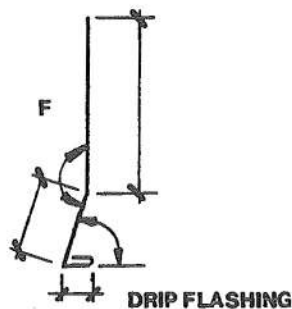
BERRIDGE CORRUGATED
METAL SHEATHING

FASTENERS, 20" O.C. MAX.

STRUCTURAL FRAMING MEMBERS

- 1 SEE FELTING DETAIL F- 10 FOR FELTING OVER CORRUGATED SHEATHING.
- 2 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 3 BERRIDGE 16 GAUGE 1 1/2"x2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.
- 4 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 5 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
Manufacturing Co.

Roofs of Distinction

**EAVE DETAIL
CONVEX**

FLAT SEAM PANEL

DATE

12 1/89

FS-10

BERRIDGE FLAT SEAM PANEL,
FASTENERS AT FEMALE
NAILER LEG 20" O.C. MAX.

30# FELT UNDERLAYMENT

FASTENERS, 20" O.C. MAX.

J-CLIP

BERRIDGE CORRUGATED
METAL SHEATHING

FASTENERS, 20" O.C. MAX.

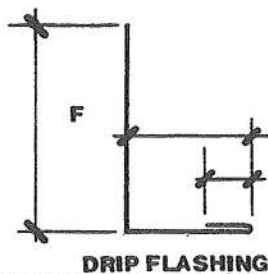
STRUCTURAL FRAMING MEMBERS

DRIP FLASHING, 2" END LAPS WITH
CONTINUOUS CAULK AT LAPS

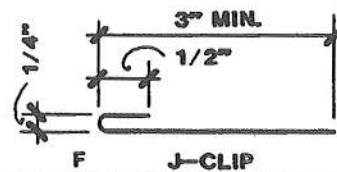
3/8"

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F = FINISH SIDE



DRIP FLASHING



J-CLIP

DATE

12/1/89

EAVE DETAIL
CONVEX

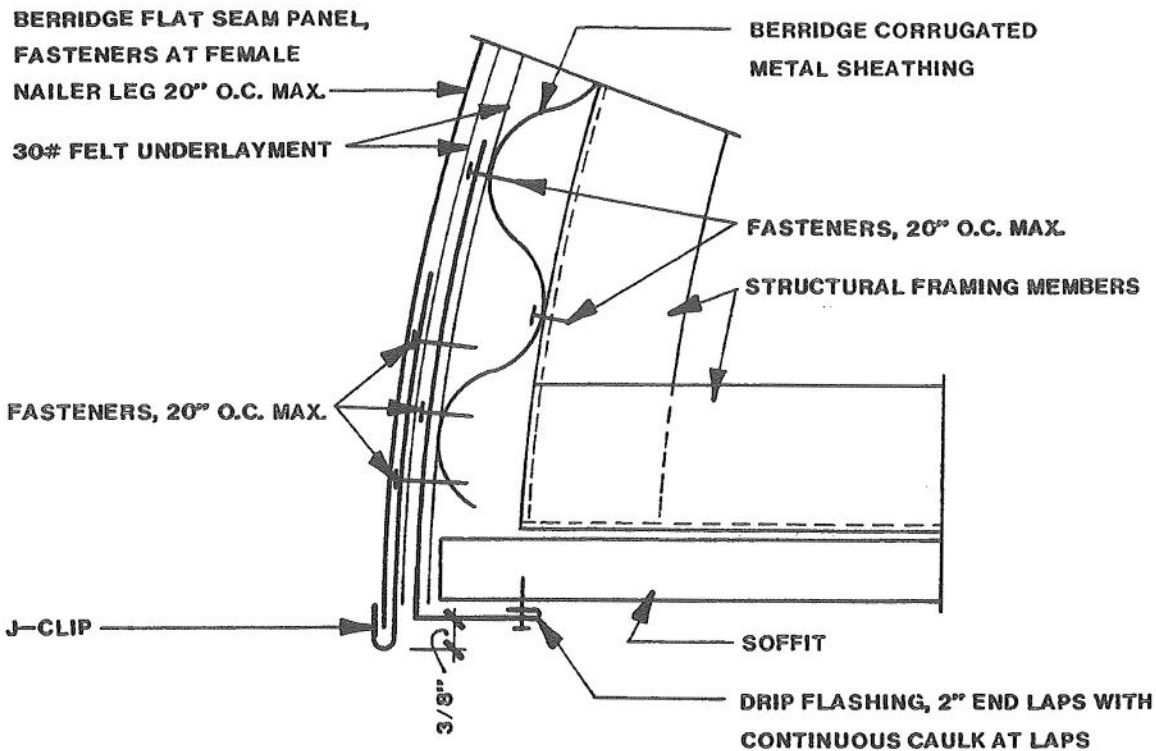
FS-11

FLAT SEAM PANEL

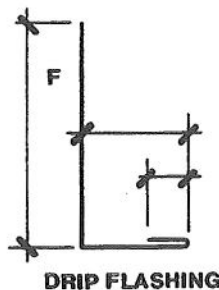


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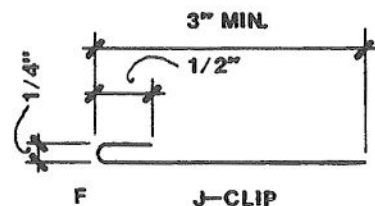
Roofs of Distinction



- 1 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
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F = FINISH SIDE



**Berridge
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Roofs of Distinction

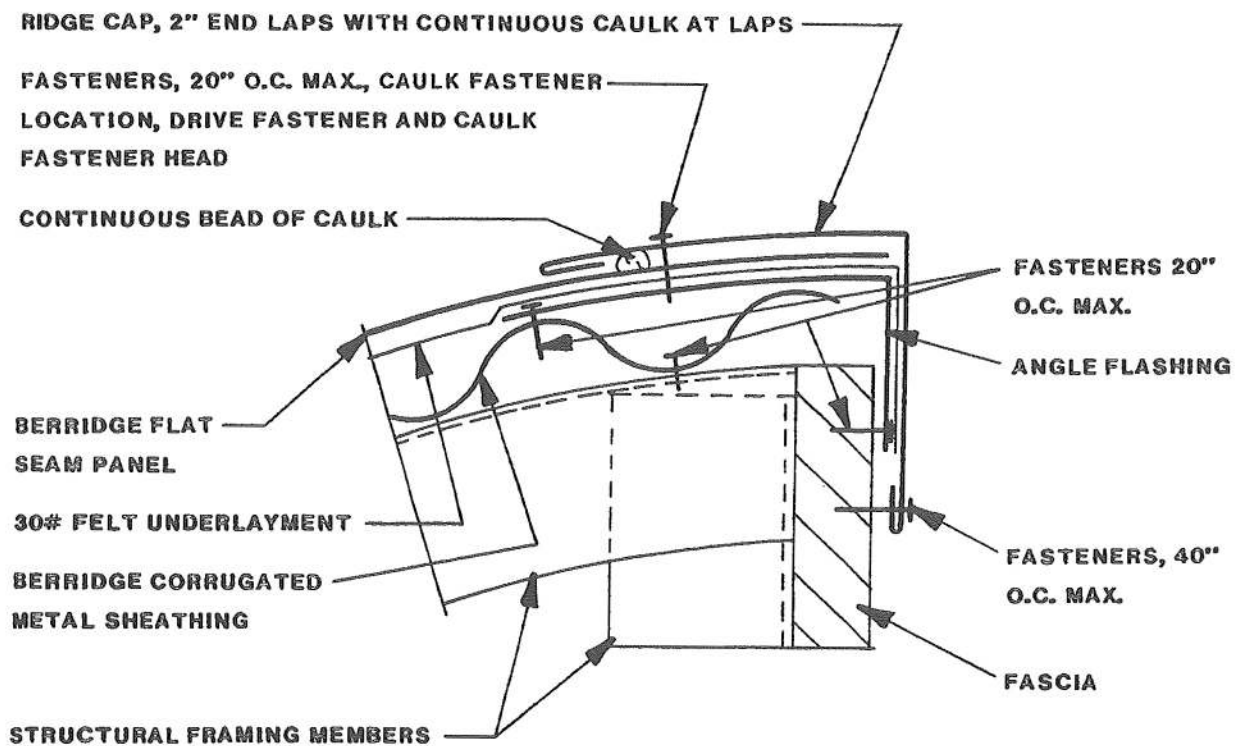
**EAVE DETAIL
CONVEX**

FLAT SEAM PANEL

DATE

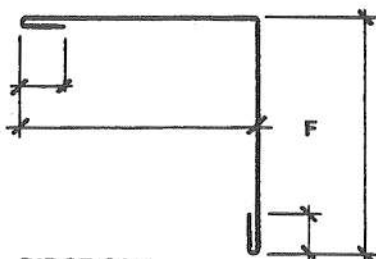
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FS-12

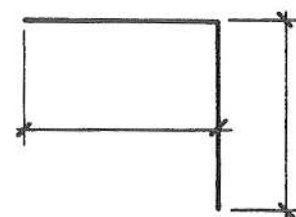


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F = FINISH SIDE



RIDGE CAP



ANGLE FLASHING



**Berridge
Manufacturing Co.**

Roofs of Distinction

RIDGE CAP DETAIL

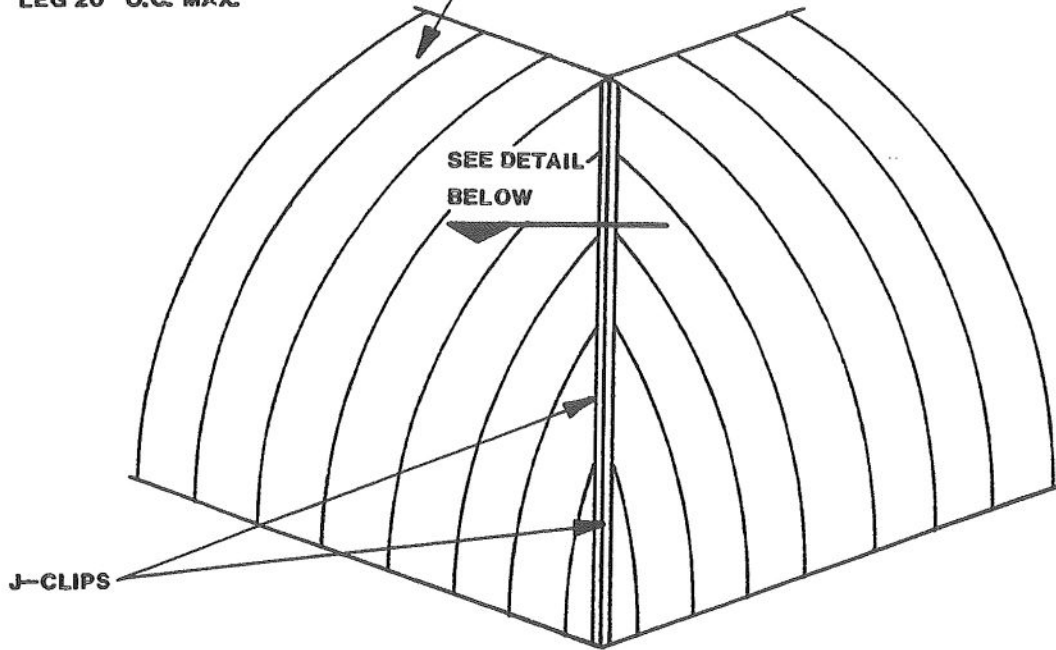
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FLAT SEAM PANEL

FS-20

BERRIDGE FLAT SEAM PANEL,
FASTENERS AT FEMALE NAILER
LEG 20" O.C. MAX.



BERRIDGE FLAT SEAM PANEL

J-CLIP

30# FELT
UNDERLAYMENT

SUB FLASHING

BERRIDGE
CORRUGATED METAL
SHEATHING

FASTENERS, 20" O.C. MAX.

CONTINUOUS BEAD OF CAULK

J-CLIP

FASTENERS, STAGGERED 20"
O.C. MAX.

SUB FLASHING

24 GA. 90° CURVED ANGLE,
FIELD FORMED TO 45°

DATE

12/1/89

HIP DETAIL
CONVEX

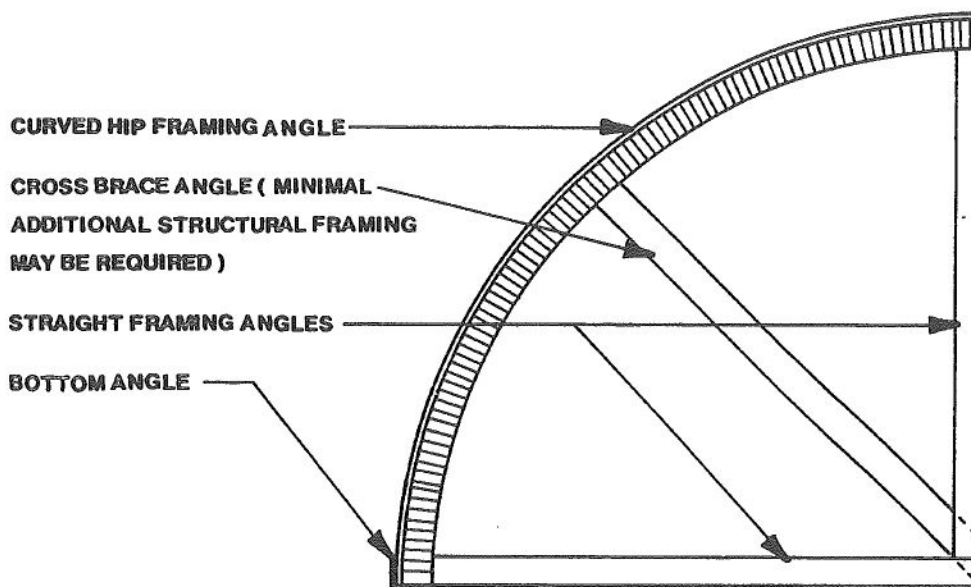
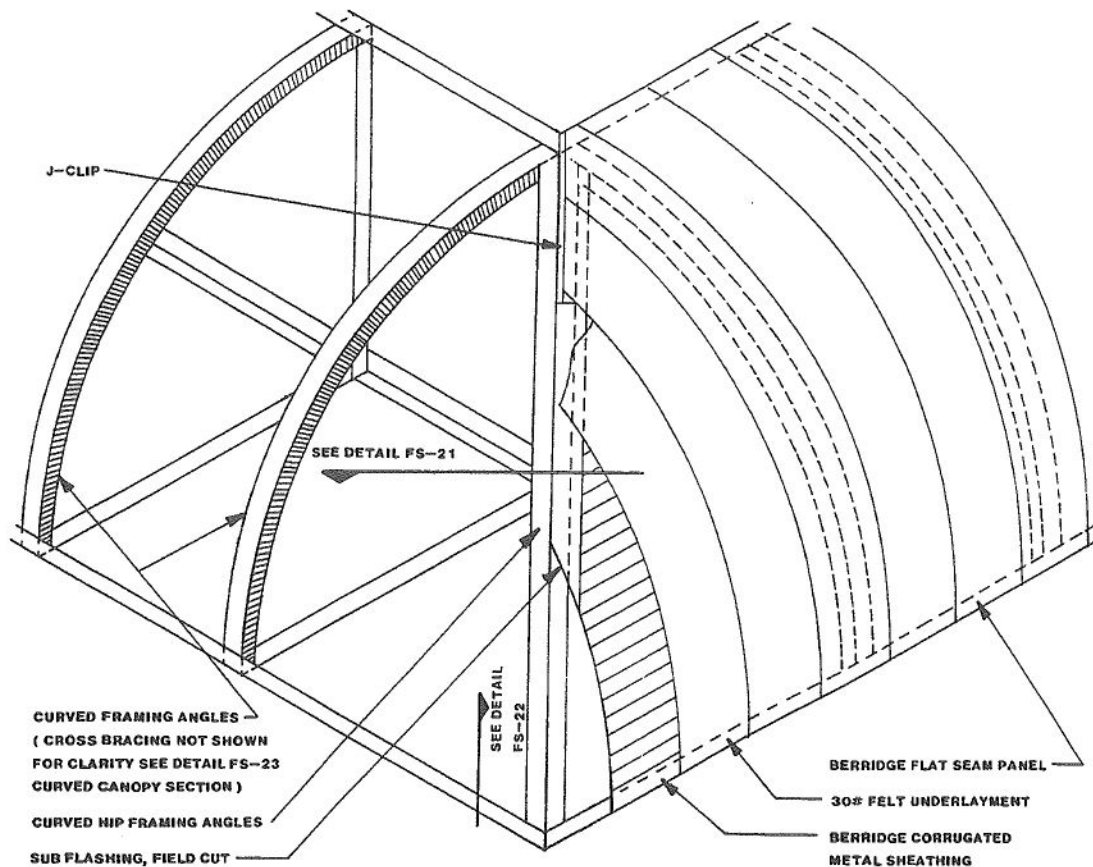
FS-21

FLAT SEAM PANEL



Berridge
Manufacturing Co.

Roofs of Distinction



BERRIDGE 16 GAUGE $1\frac{1}{2}'' \times 2''$ CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.

THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.



Berridge
Manufacturing Co.

Roofs of Distinction

**HIP ISOMETRIC
AND SECTION-CONVEX**

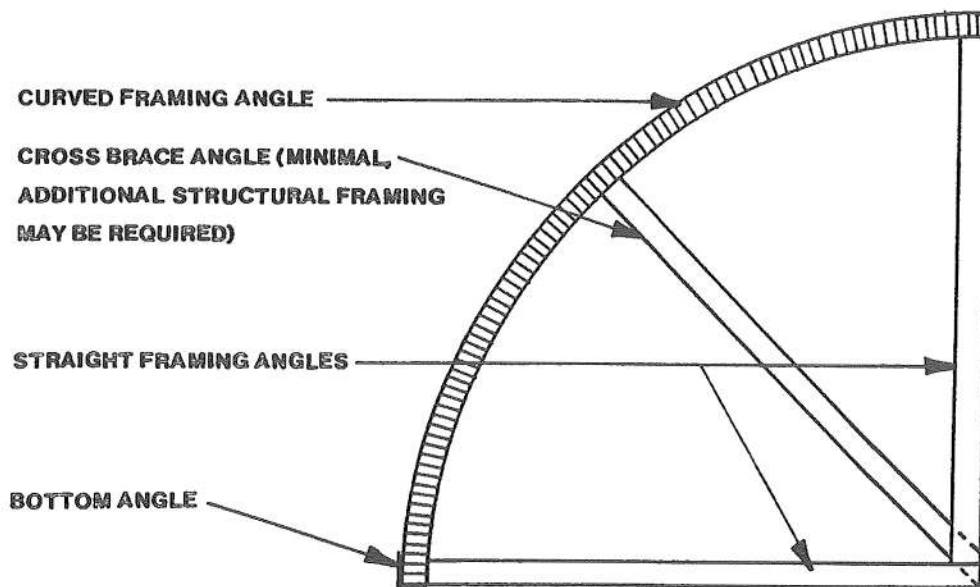
FLAT SEAM PANEL

DATE

12/1/89

FS-22

CURVED CANOPY SECTION



BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AND LOAD REQUIREMENTS.

THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.

DATE

12/1/89

CURVED CANOPY SECTION

FS-23

FLAT SEAM PANEL



**Berridge
Manufacturing Co.**

Roofs of Distinction

BERRIDGE FLAT SEAM PANEL FASTENERS AT FEMALE NAILER LEG 20" O.C. MAX.

FIELD CUT LAST PANEL & SLIP INTO J-CLIP

CONTINUOUS BEAD OF CAULK

J-CLIP

FASTENERS, 20" O.C. MAX.

CURVED ANGLE

FASTENERS, STAGGERED
20" O.C. MAX.

STRUCTURAL FRAMING MEMBERS

FASCIA

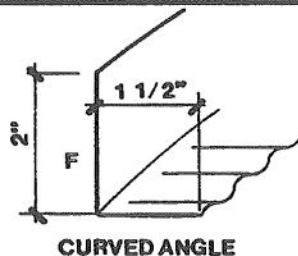
FASTENERS, 20" O.C. MAX.

30# FELT UNDERLAYMENT

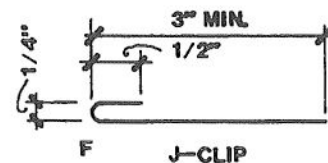
BERRIDGE CORRUGATED
METAL SHEATHING

- 1 FIELD CUT LAST PANEL IN RUN AND SLIP INTO J-CLIP.
- 2 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 3 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 4 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
- 5 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 6 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



CURVED ANGLE



J-CLIP



Berridge
Manufacturing Co.

Roofs of Distinction

**GABLE DETAIL
CONVEX**

FLAT SEAM PANEL

DATE

12/1/89

FS-30

BERRIDGE FLAT SEAM PANEL, FASTENERS AT FEMALE NAILER LEG 20" O.C. MAX.

FIELD CUT & FORM LAST PANEL AROUND DRIP FLASHING

POP RIVET 40" O.C. MAX.

DRIP FLASHING, 2" END
LAPS WITH CONTINUOUS
CAULK AT LAPS

FASTENERS, STAGGERED
20" O.C. MAX.

STRUCTURAL FRAMING MEMBERS

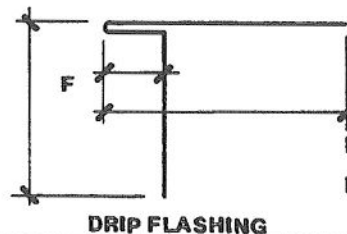
FASCIA

FASTENERS, 20" O.C. MAX.

30# FELT UNDERLAYMENT

BERRIDGE CORRUGATED METAL SHEATHING

- 1 FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING.
- 2 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 3 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 4 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
- 5 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 6 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

DATE

12/1/89

GABLE DETAIL
CONVEX

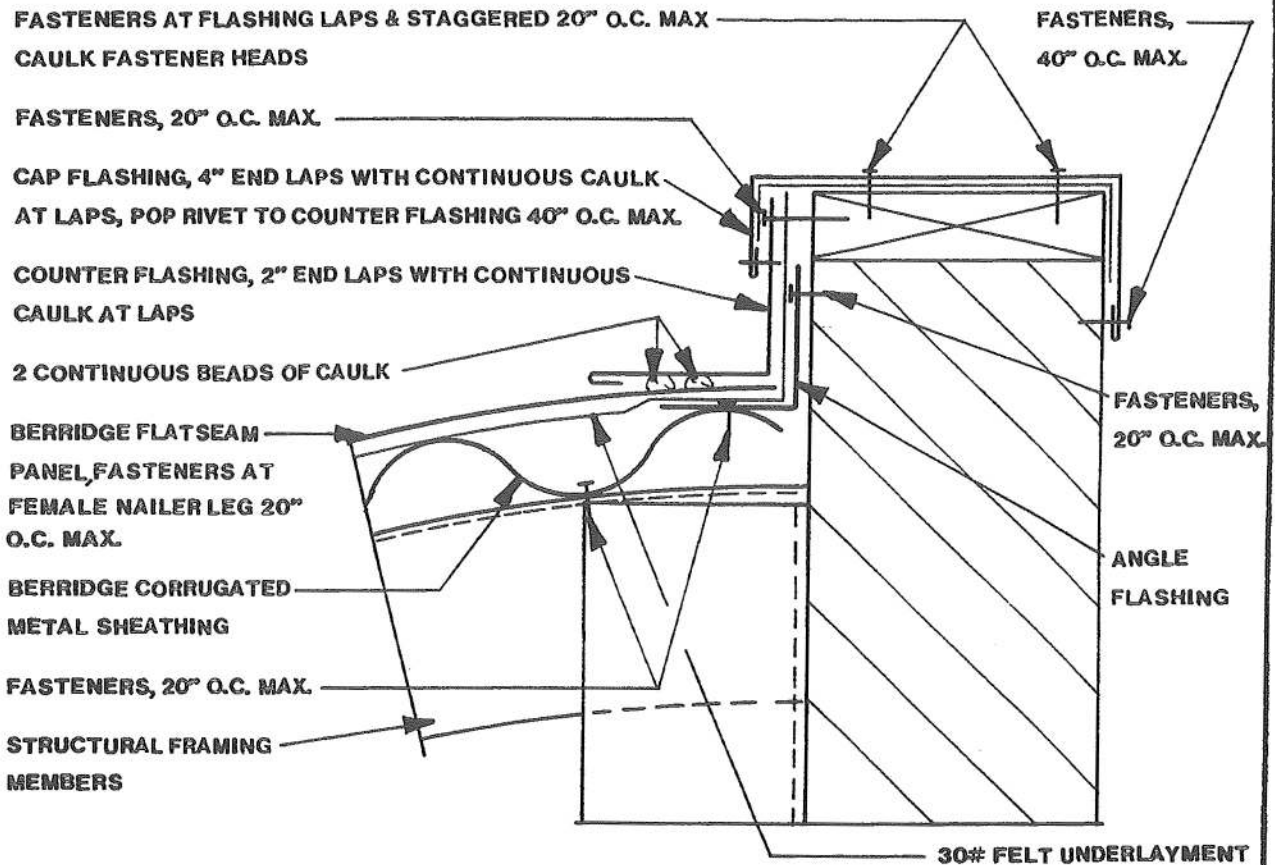
FS-31

FLAT SEAM PANEL

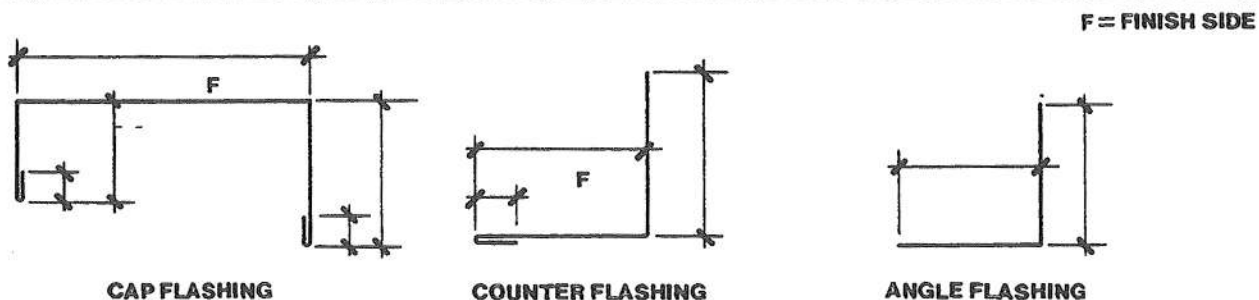


Berridge
Manufacturing Co.

Roofs of Distinction



- 1 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 2 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 3 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
- 4 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 5 ALL FELT UNDERLAYMENT, CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



**Berridge
Manufacturing Co.**

Roofs of Distinction

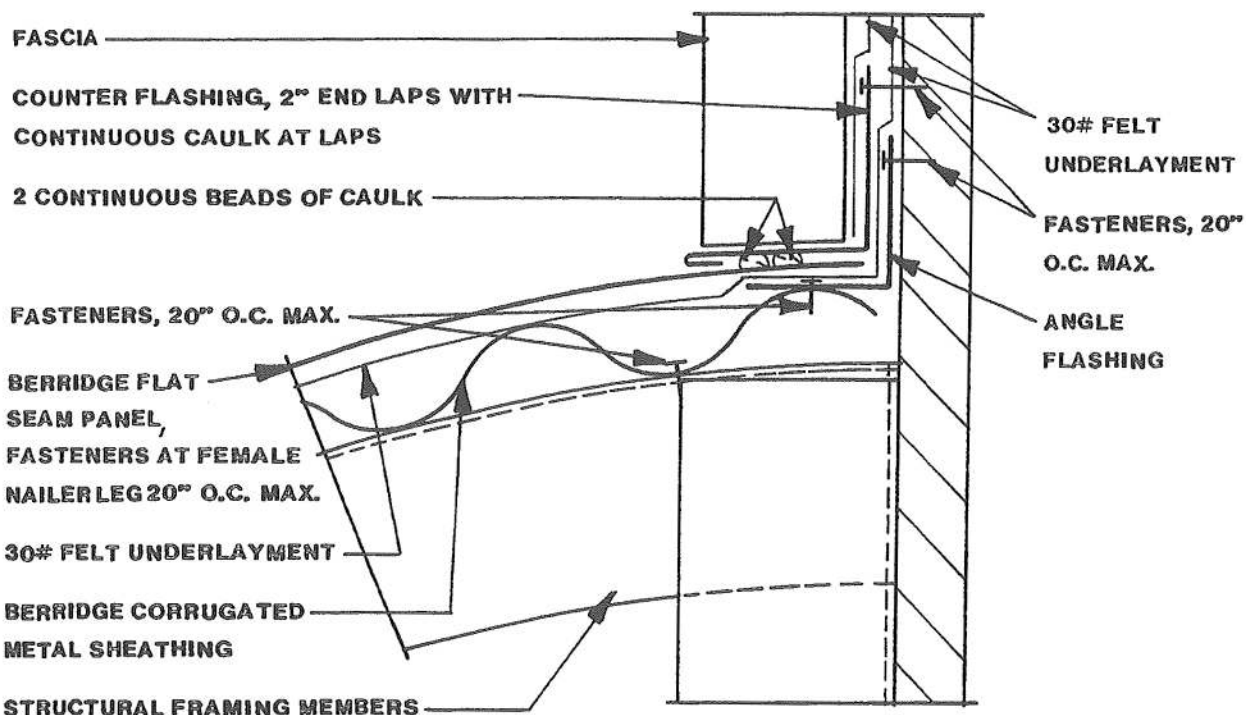
**PARAPET DETAIL
CONVEX**

FLAT SEAM PANEL

DATE

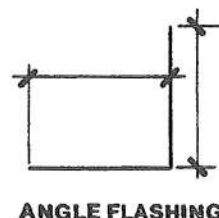
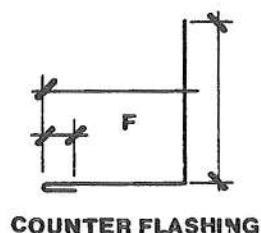
12/1/89

FS-40



- 1 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 2 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 3 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
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- 5 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
Manufacturing Co.**

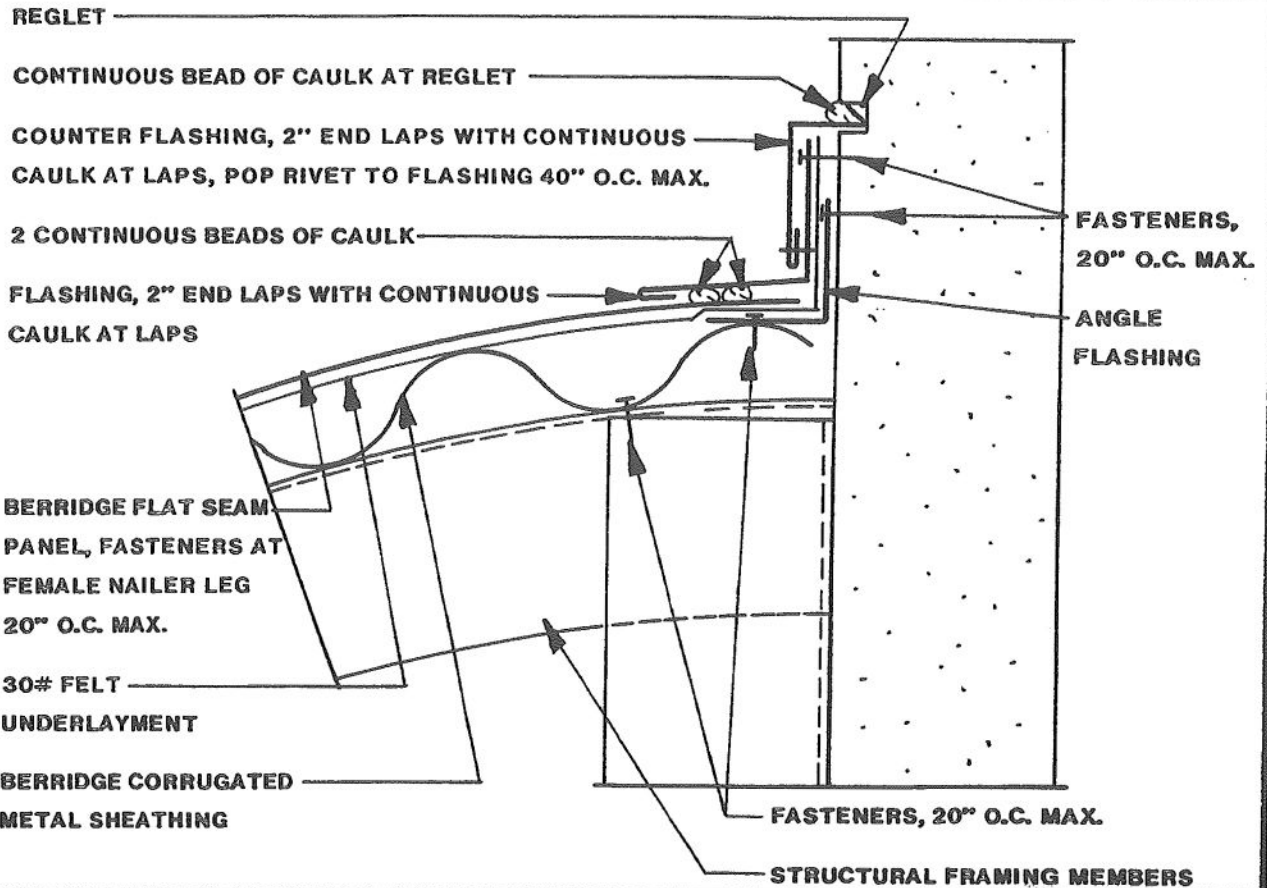
Roofs of Distinction

**END WALL DETAIL
CONVEX**

FLAT SEAM PANEL

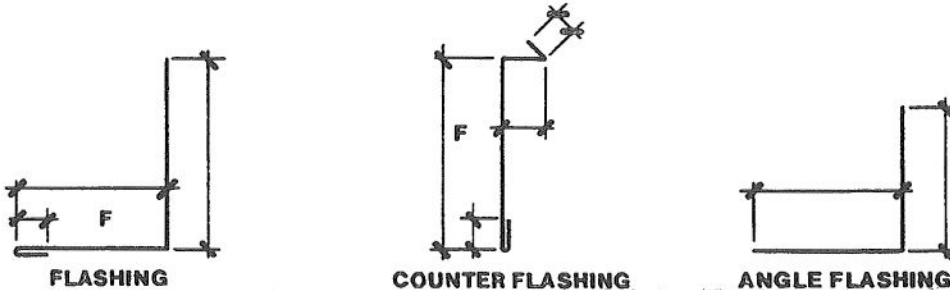
**DATE
12/1/89**

FS-50



- 1 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 2 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 3 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
- 4 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 5 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



DATE
12/1/89

END WALL DETAIL
CONVEX

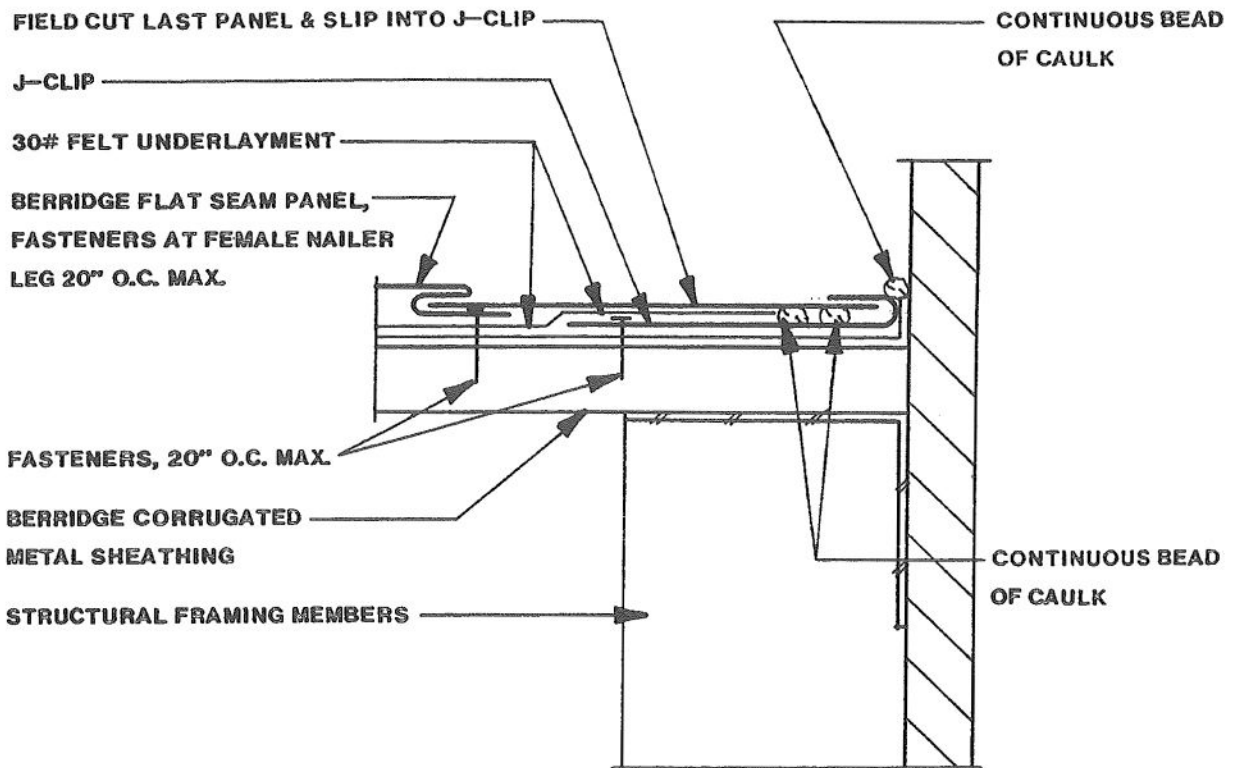
FS-51

FLAT SEAM PANEL



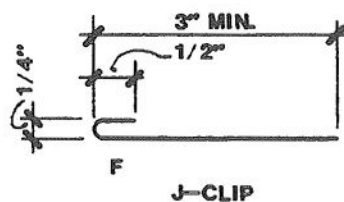
Berridge
Manufacturing Co.

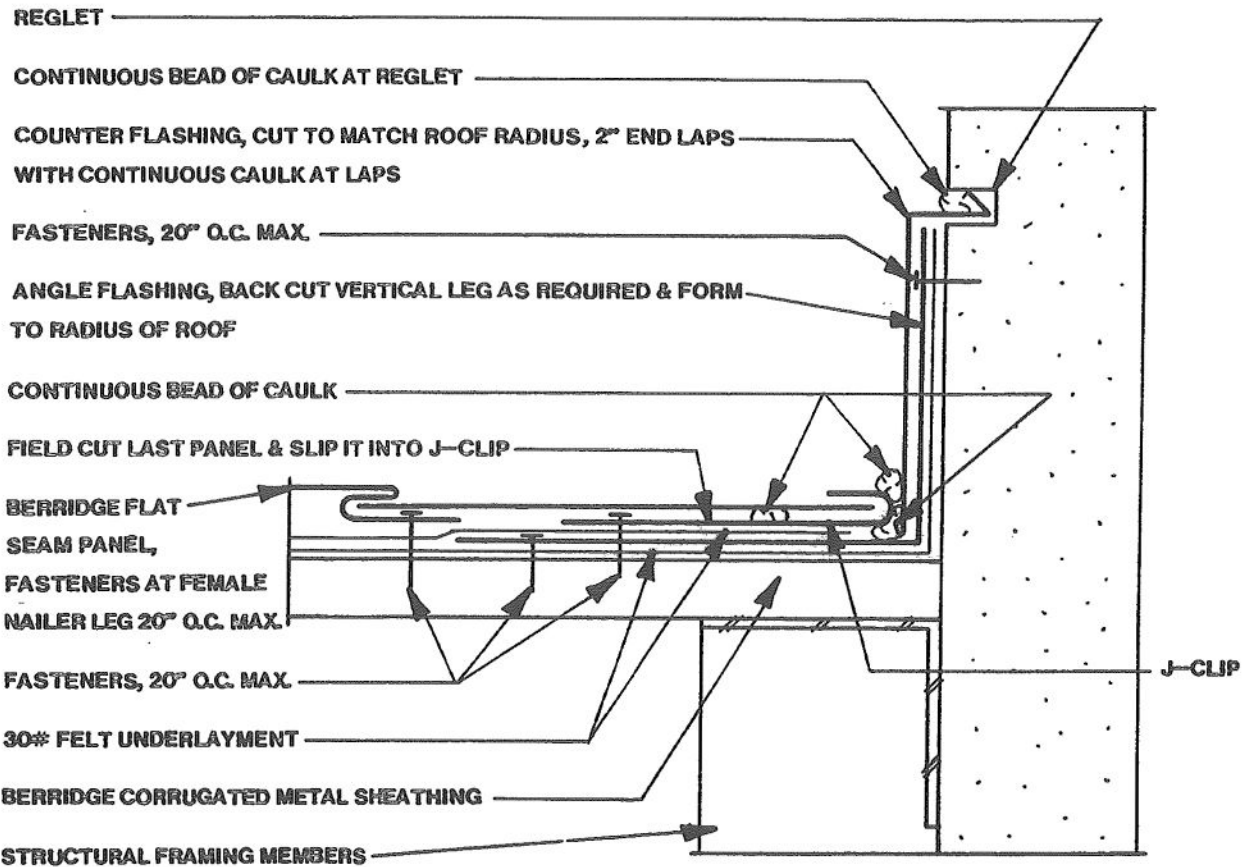
Roofs of Distinction



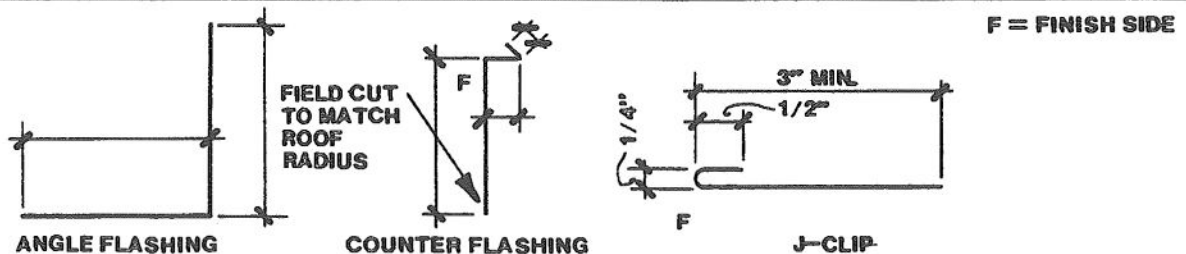
- 1 FIELD CUT LAST PANEL IN RUN AND SLIP IT INTO J-CLIP.
- 2 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 3 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 4 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
- 5 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 6 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 SLIP IT INTO J-CLIP.
- 2 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 3 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 4 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
- 5 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 6 ALL FELT UNDERLAYMENT, CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



DATE
12/1/89

RAKE DETAIL
CONVEX

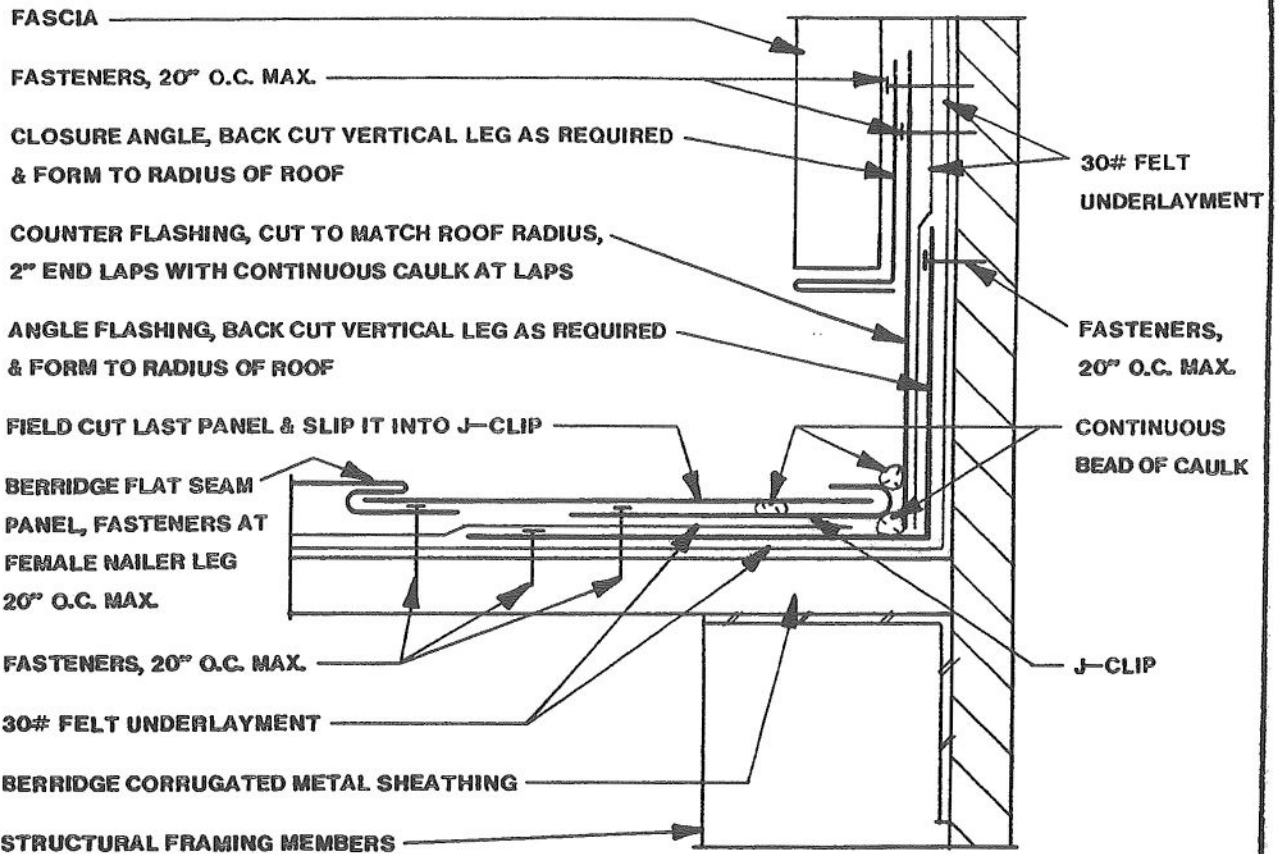
FS-53

FLAT SEAM PANEL

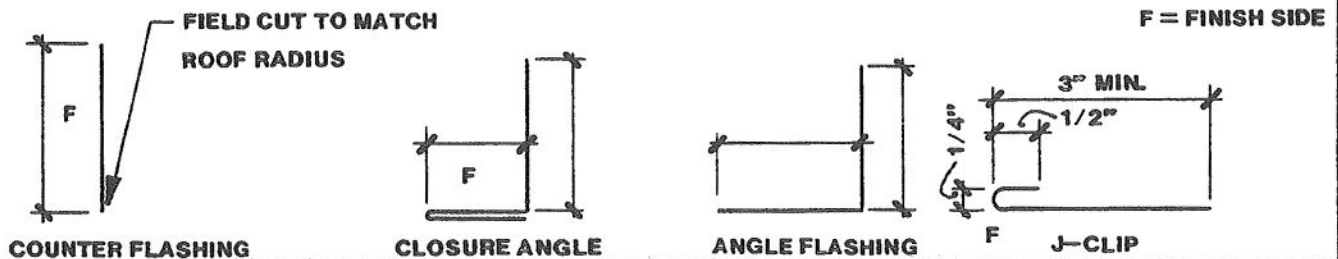


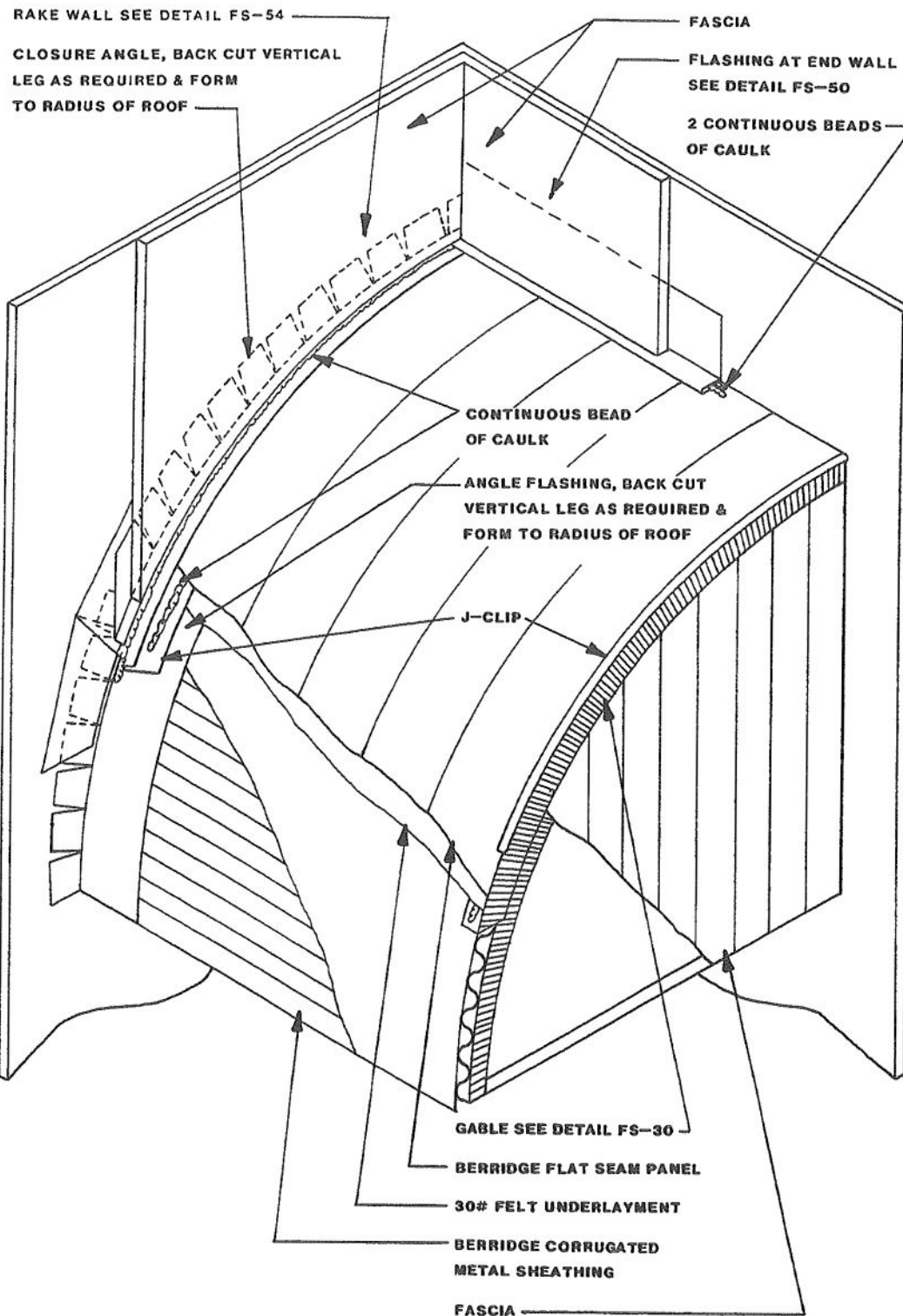
Berridge
Manufacturing Co.

Roofs of Distinction



- 1 FIELD CUT LAST PANEL AND SLIP IT INTO J-CLIP.
- 2 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 3 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 4 BERRIDGE 16 GAUGE 1 1/2" X 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION & LOAD REQUIREMENTS.
- 5 THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
- 6 ALL FELT UNDERLAYMENT, CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.





DATE

12/1/89

CANOPY ISOMETRIC

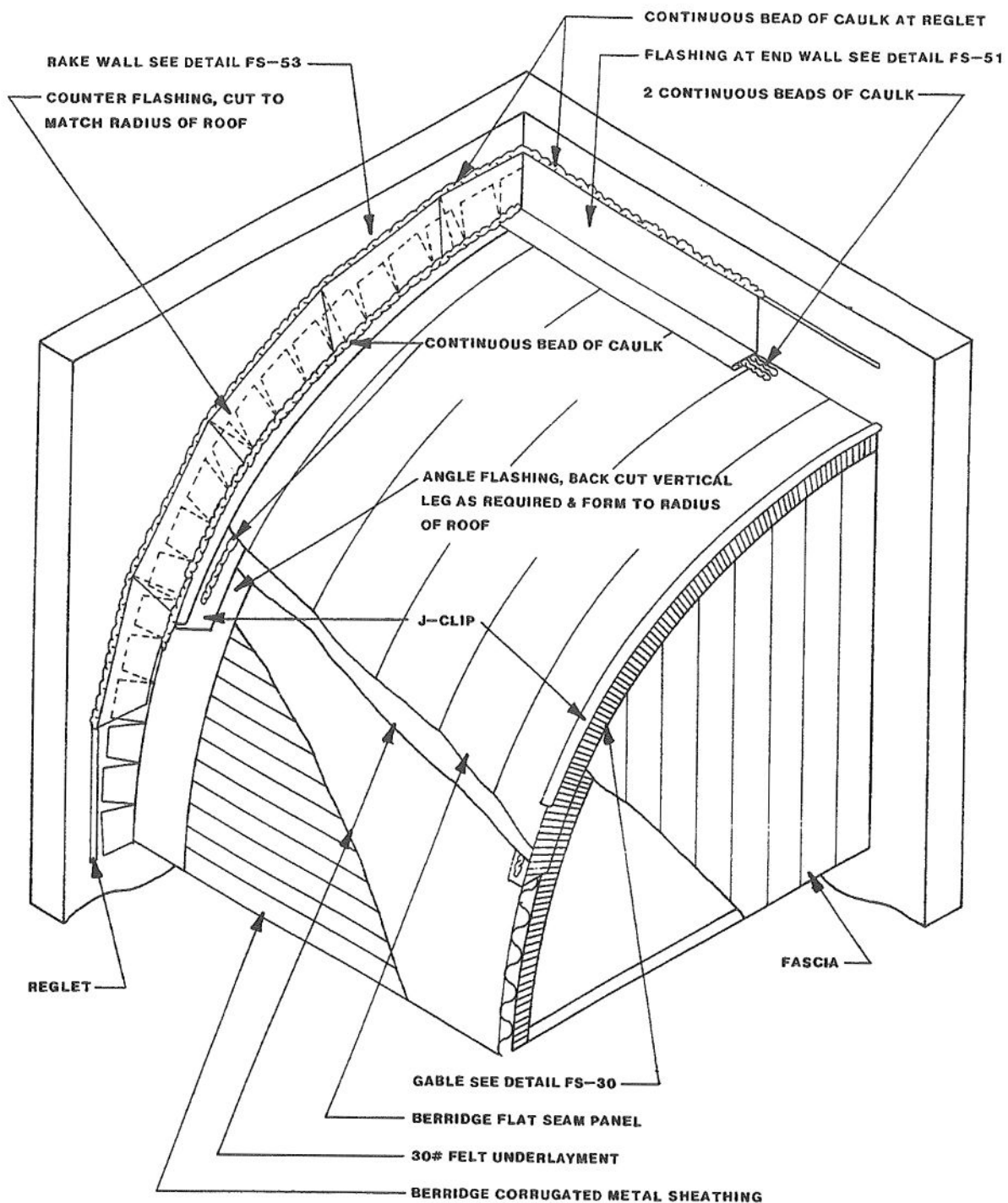
FS-55

FLAT SEAM PANEL



**Berridge
Manufacturing Co.**

Roofs of Distinction



**Berridge
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Roofs of Distinction

CANOPY ISOMETRIC

DATE
12/1/89

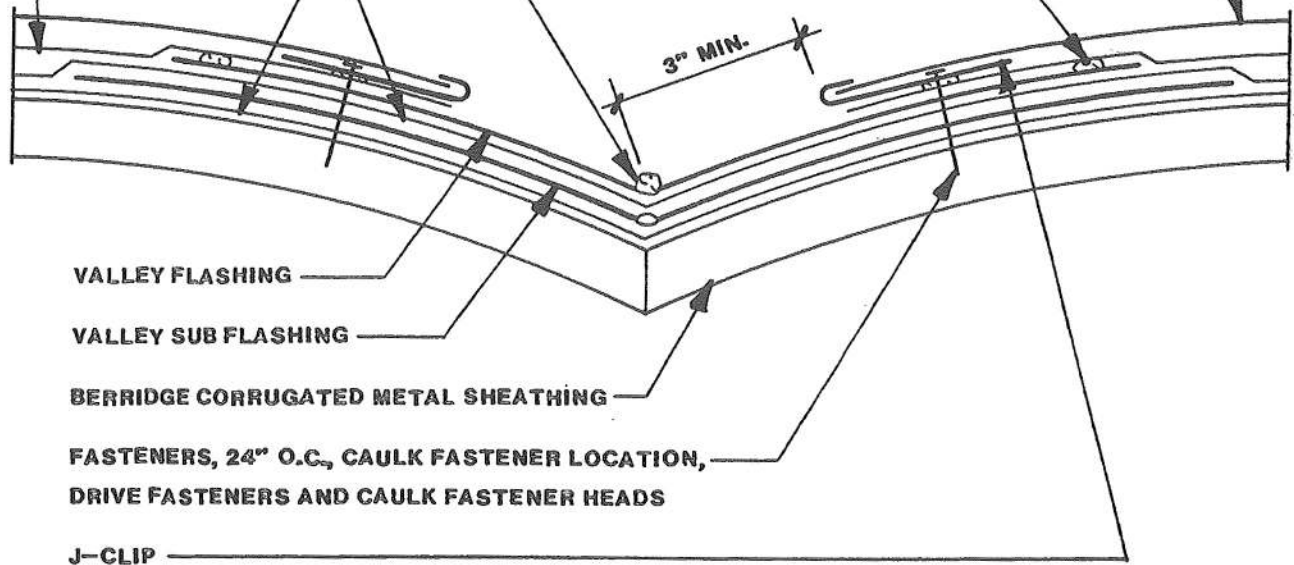
FLAT SEAM PANEL

FS-56

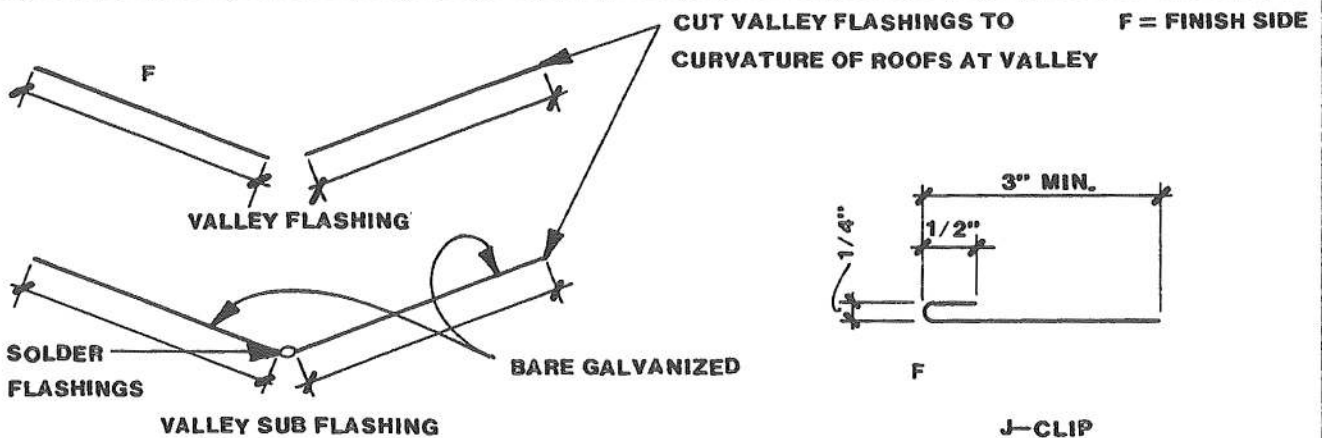
BERRIDGE FLAT SEAM PANEL, FASTENERS AT FEMALE NAILER LEG 20" O.C. MAX.

CONTINUOUS BEAD OF CAULK

30# FELT
UNDERLAYMENT



- 1 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 2 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 3 ALL FELT UNDERLAYMENT, CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



B Berridge
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Roofs of Distinction

VALLEY FLASHING CONVEX

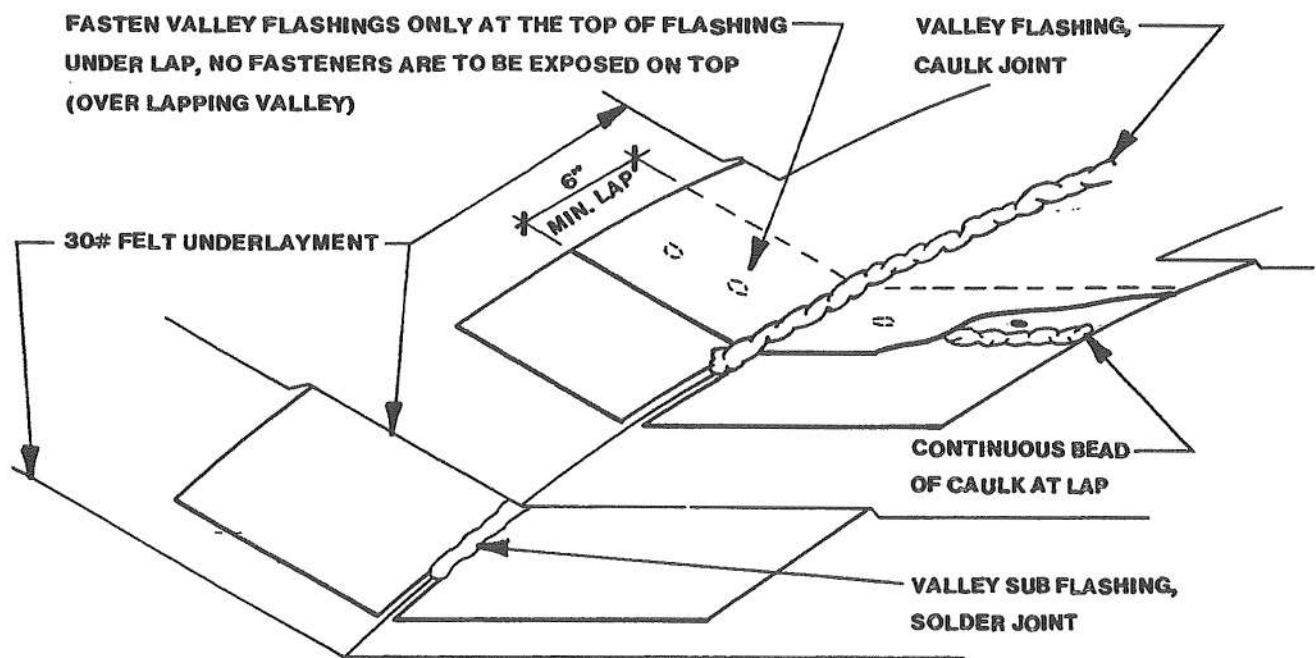
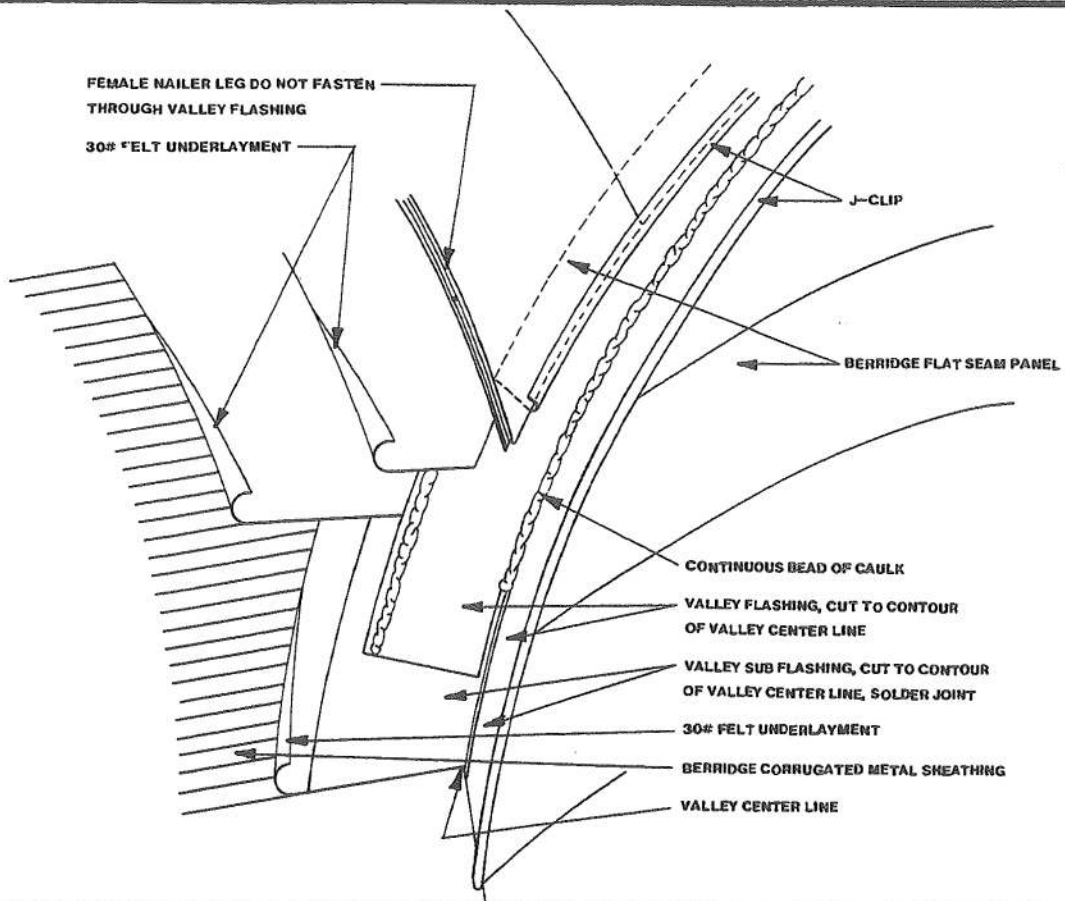
SEE DETAIL FS-72 FOR ALTERNATE VALLEY
FLASHING TREATMENT

FLAT SEAM PANEL

DATE

12/1/89

FS-70



NOTE: DO NOT LAP VALLEY FLASHING AND VALLEY SUB FLASHING AT SAME LOCATION

DATE

12/1/89

VALLEY FLASHING ISOMETRIC
CONVEX

FS-71

FLAT SEAM PANEL



Berridge
Manufacturing Co.

Roofs of Distinction

BERRIDGE FLAT SEAM PANEL, FASTENERS AT FEMALE NAILER LEG 20" O.C. MAX.

CONTINUOUS BEAD OF CAULK

30# FELT UNDERLAYMENT

J-CLIP

3" MIN.

2 PIECE VALLEY FLASHING, FIELD CUT
TO CURVATURE OF ROOF AT VALLEY,
SOLDER FLASHING JOINT (SEE NOTE #2)

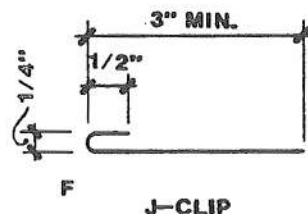
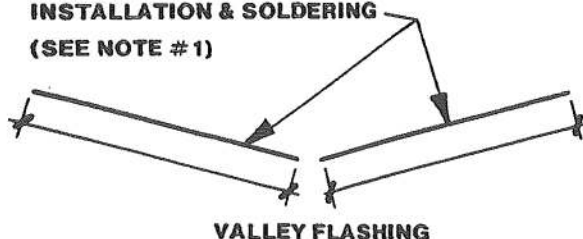
BERRIDGE CORRUGATED METAL SHEATHING

FASTENERS, 24" O.C., CAULK FASTENER LOCATION,
DRIVE FASTENERS AND CAULK FASTENER HEADS

- 1 VALLEY FLASHING TO BE 24 GAUGE BARE HOT DIPPED GALVANIZED FLAT SHEET METAL, FIELD PAINT AS PER THE FOLLOWING INSTRUCTIONS, STEP 1 CLEAN ALL OIL, GREASE AND HAND PRINTS OFF OF SURFACES TO BE PAINTED WITH SOLVENTS, STEP 2 PRIME COAT, .2 MIL OF ZINC CHROMATE PRIMER (YELLOW), STEP 3 TOP COAT, .8 MIL AIR DRY KYNAR 500 TO MATCH BERRIDGE FLAT SEAM PANEL.
- 2 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 3 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 4 ALL FELT UNDERLAYMENT, CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

BARE GALVANIZED, FIELD PAINT AFTER
INSTALLATION & SOLDERING
(SEE NOTE #1)

F = FINISH SIDE



Berridge
Manufacturing Co.

Roofs of Distinction

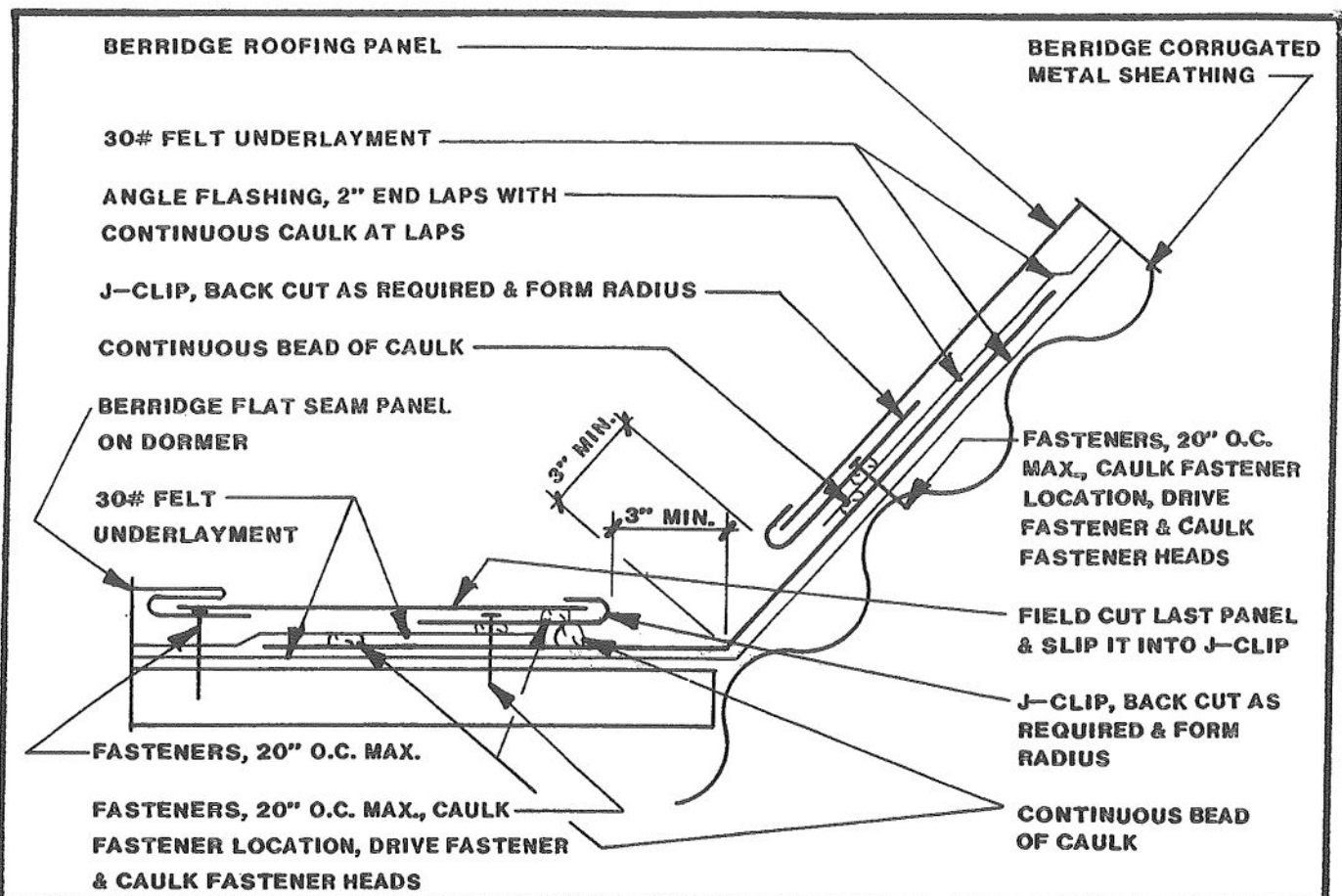
**VALLEY FLASHING DETAIL
CONVEX**

FLAT SEAM PANEL

DATE

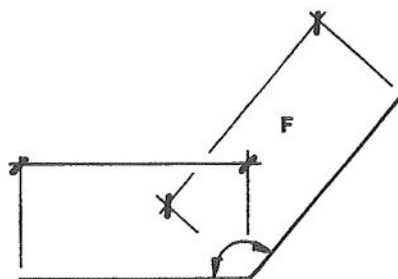
12/1/89

FS-72

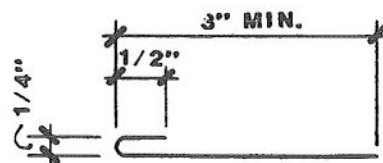


- 1 FIELD CUT LAST PANEL OF DORMER AND SLIP IT INTO J-CLIP.
- 2 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 3 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
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F= FINISH SIDE



ANGLE FLASHING



J-CLIP

DATE

12/1/89

**VAULTED DORMER - VALLEY
CONVEX**

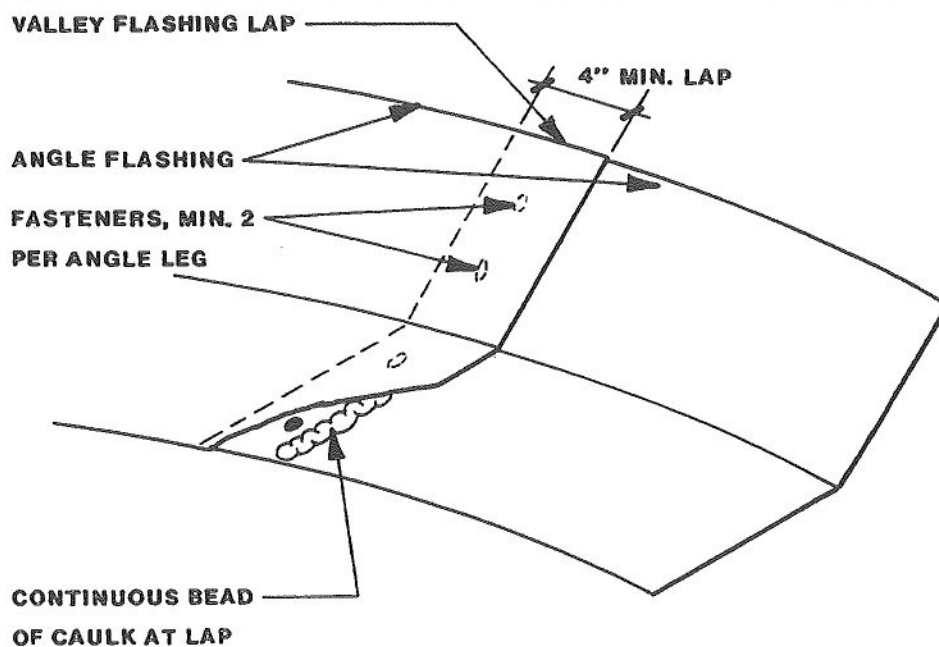
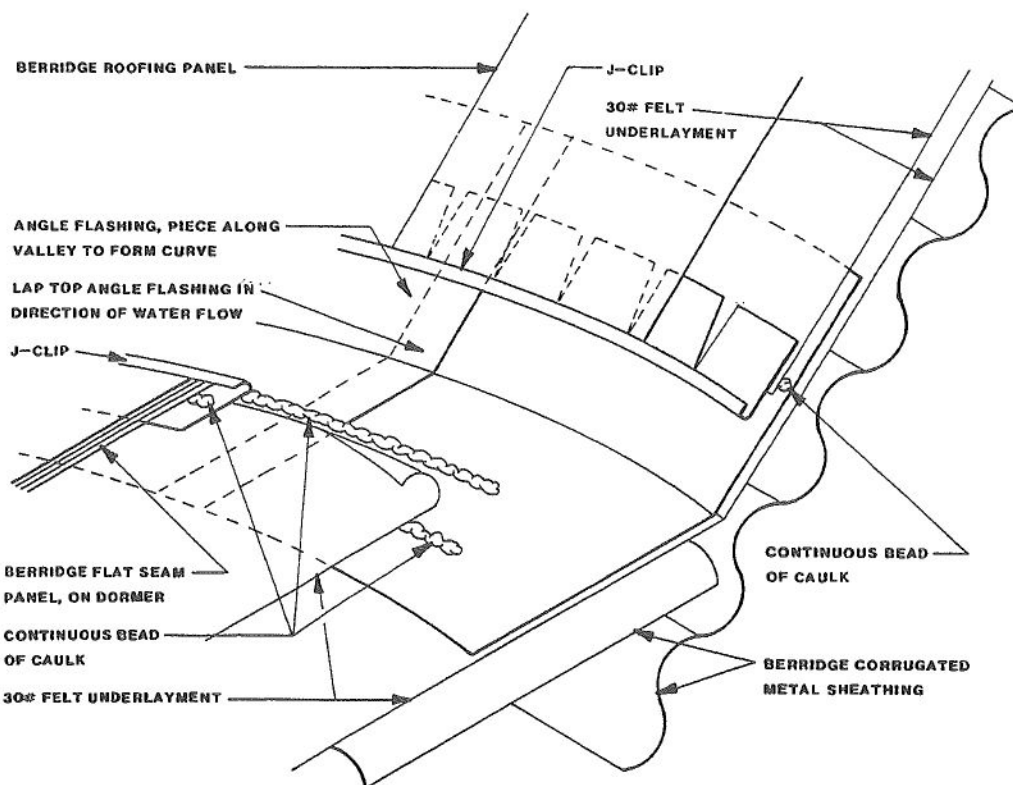
FS-73

FLAT SEAM PANEL



**Berridge
Manufacturing Co.**

Roofs of Distinction



**Berridge
Manufacturing Co.**

Roofs of Distinction

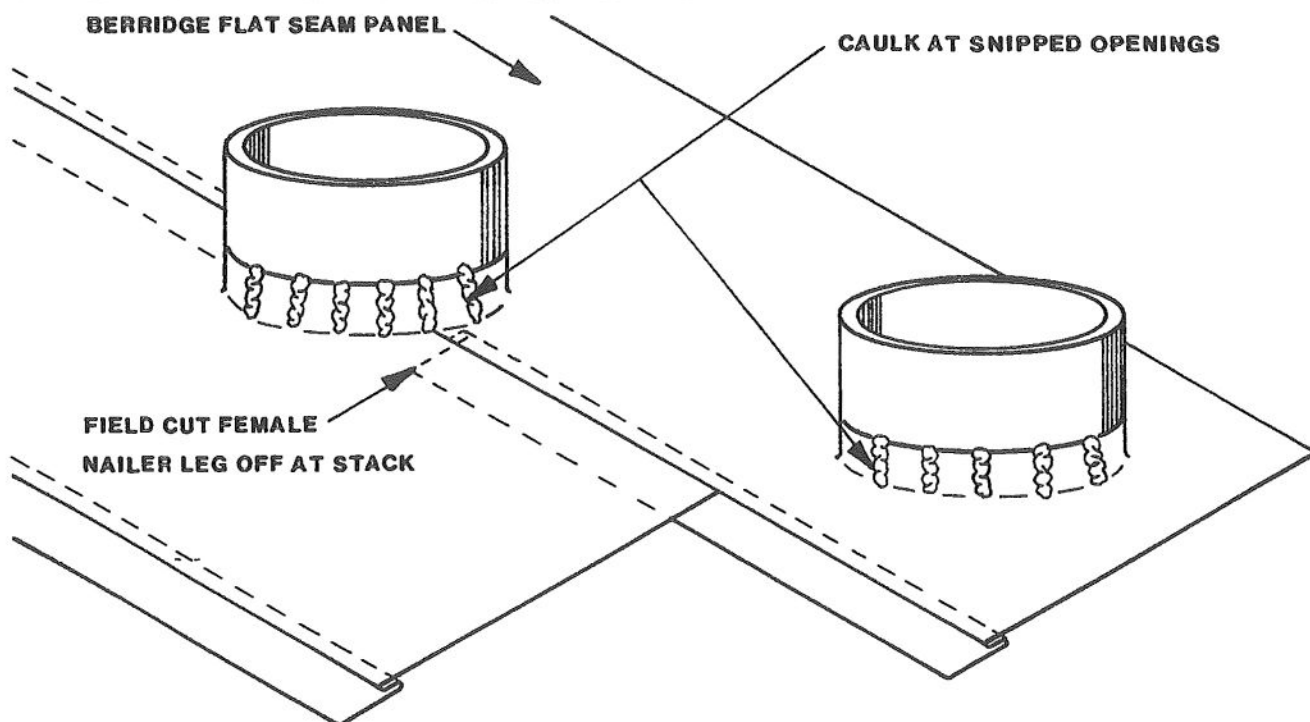
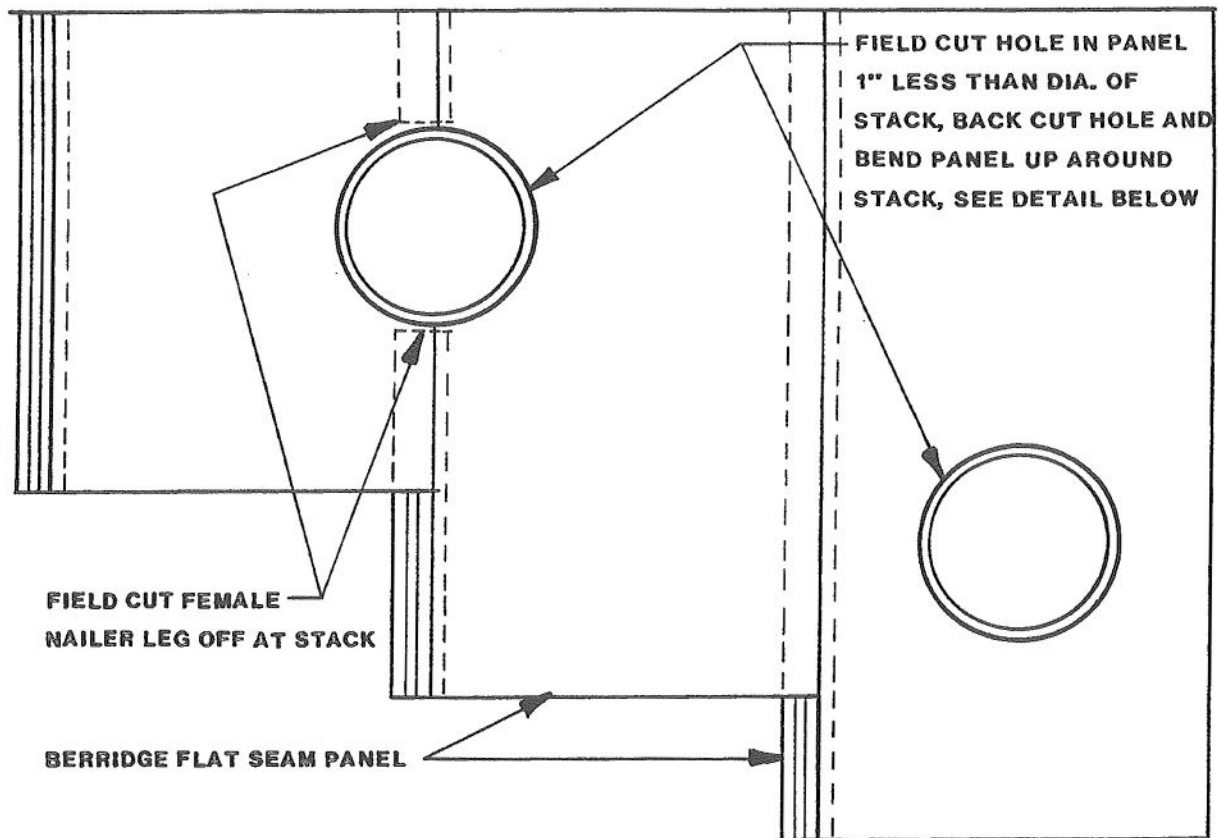
VALLEY FLASHING ISOMETRIC DORMER VALLEY

FLAT SEAM PANEL

DATE

12/1/89

FS-74



**Berridge
Manufacturing Co.**

Roofs of Distinction

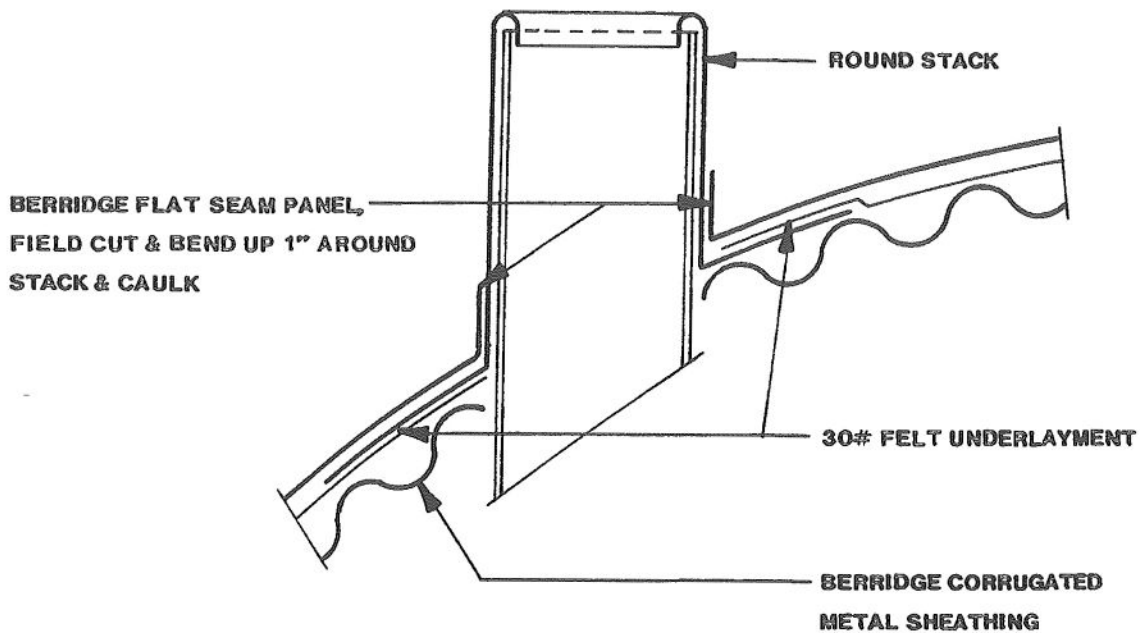
ROOF PENETRATION ROUND STACK DETAIL

FLAT SEAM PANEL

DATE

12/1/89

FS-80



- 1 FIELD CUT PANELS 1" LESS THAN DIA. OF STACK, BACK CUT HOLE AND BEND PANEL UP AROUND STACK.
- 2 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 3 ALL FELT UNDERLAYMENT AND CAULKING ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

DATE
12/ 1/89

ROOF PENETRATION ROUND STACK SECTION

FS-81

FLAT SEAM PANEL



**Berridge
Manufacturing Co.**

Roofs of Distinction

COUNTER FLASHING

ANGLE FLASHING

BERRIDGE FLAT SEAM

PANEL FIELD CUT &
FORM TO CURB

FLASHING, FIELD CUT
TO ROOF RADIUS

ANGLE FLASHING

COUNTER FLASHING

SECTION B

SEE BELOW

SECTION A

BERRIDGE FLAT SEAM PANEL,
FIELD CUT & FORM TO CURB

FLASHING, FIELD CUT TO ROOF RADIUS

COUNTER FLASHING

ANGLE FLASHING

BERRIDGE FLAT SEAM PANEL



**Berridge
Manufacturing Co.**

Roofs of Distinction

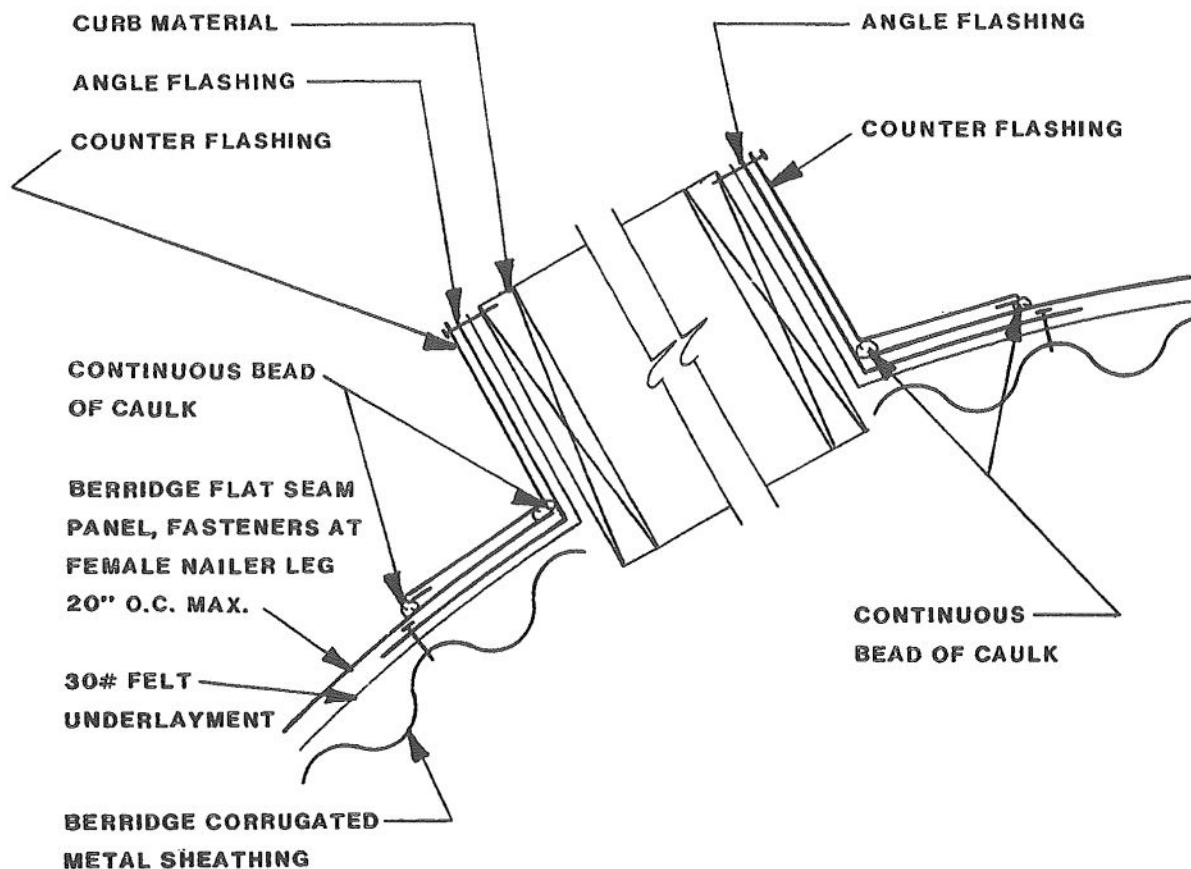
**ROOF PENETRATION
RECTANGULAR/SQUARE**

FLAT SEAM PANEL

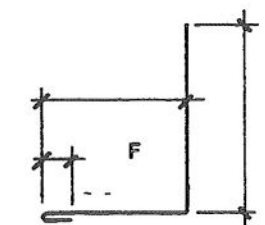
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12/1/89

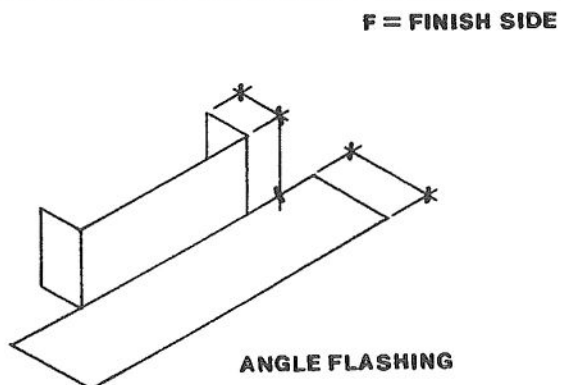
FS-82



- 1 SEE FELTING DETAIL F-10 FOR FELTING OVER CORRUGATED SHEATHING.
- 2 SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
- 3 ALL FELT UNDERLAYMENT, CAULKING AND FASTENERS ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



COUNTER FLASHING



DATE
12/1/89

ROOF PENETRATION SECTION A

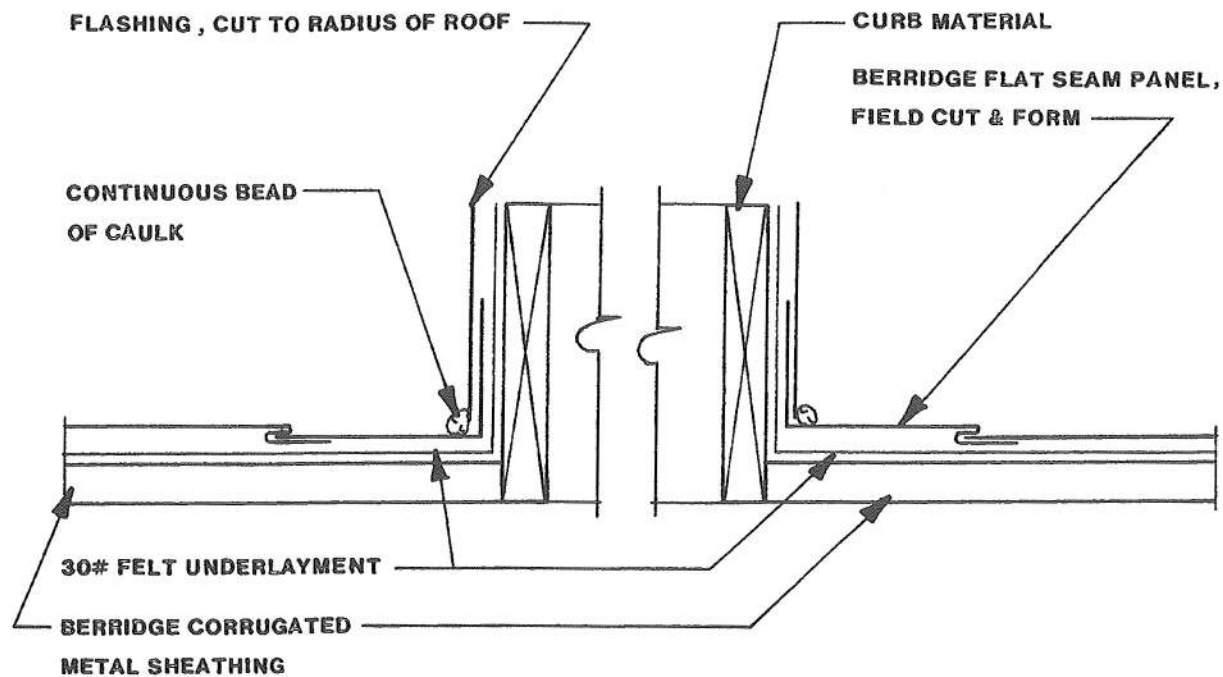
FS-83

FLAT SEAM PANEL

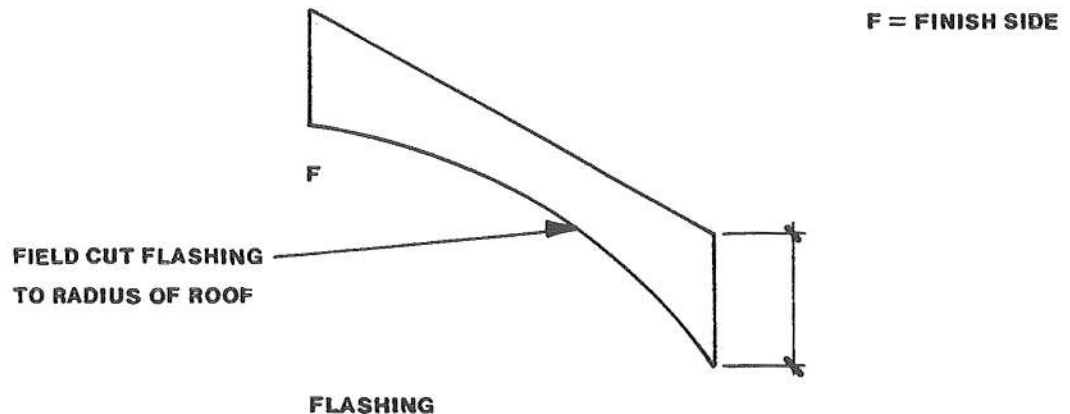


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Roofs of Distinction



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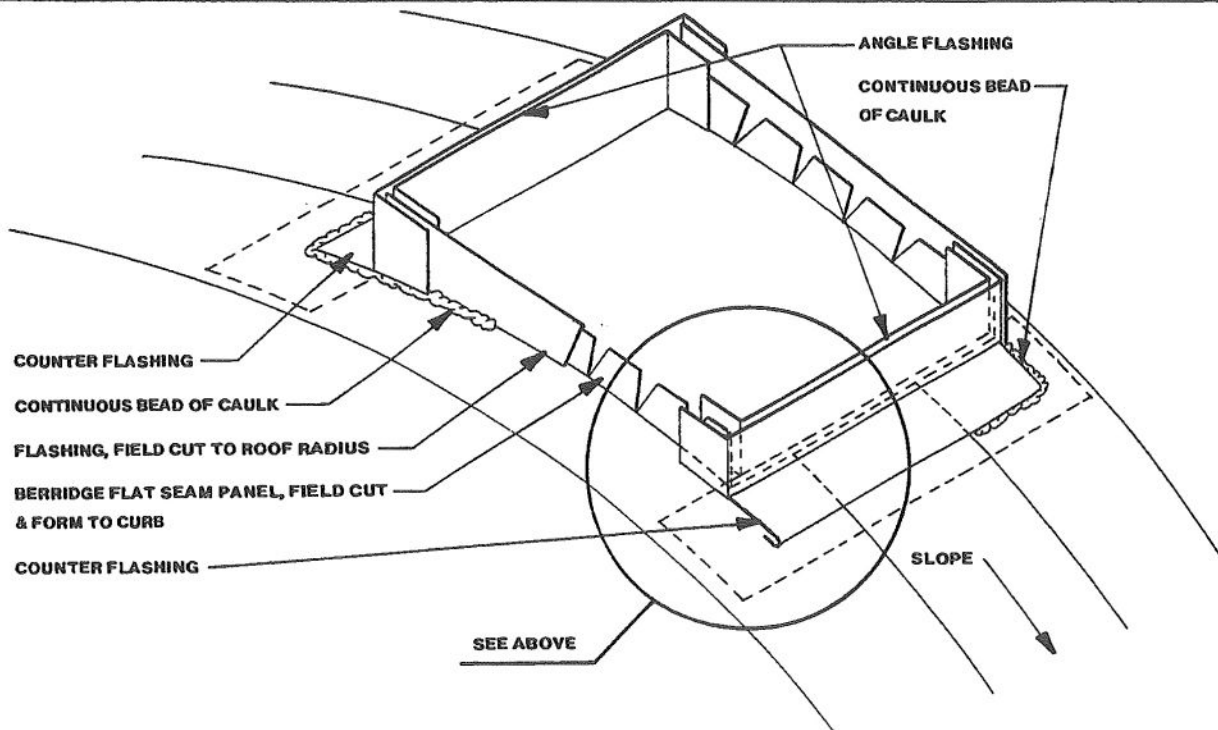
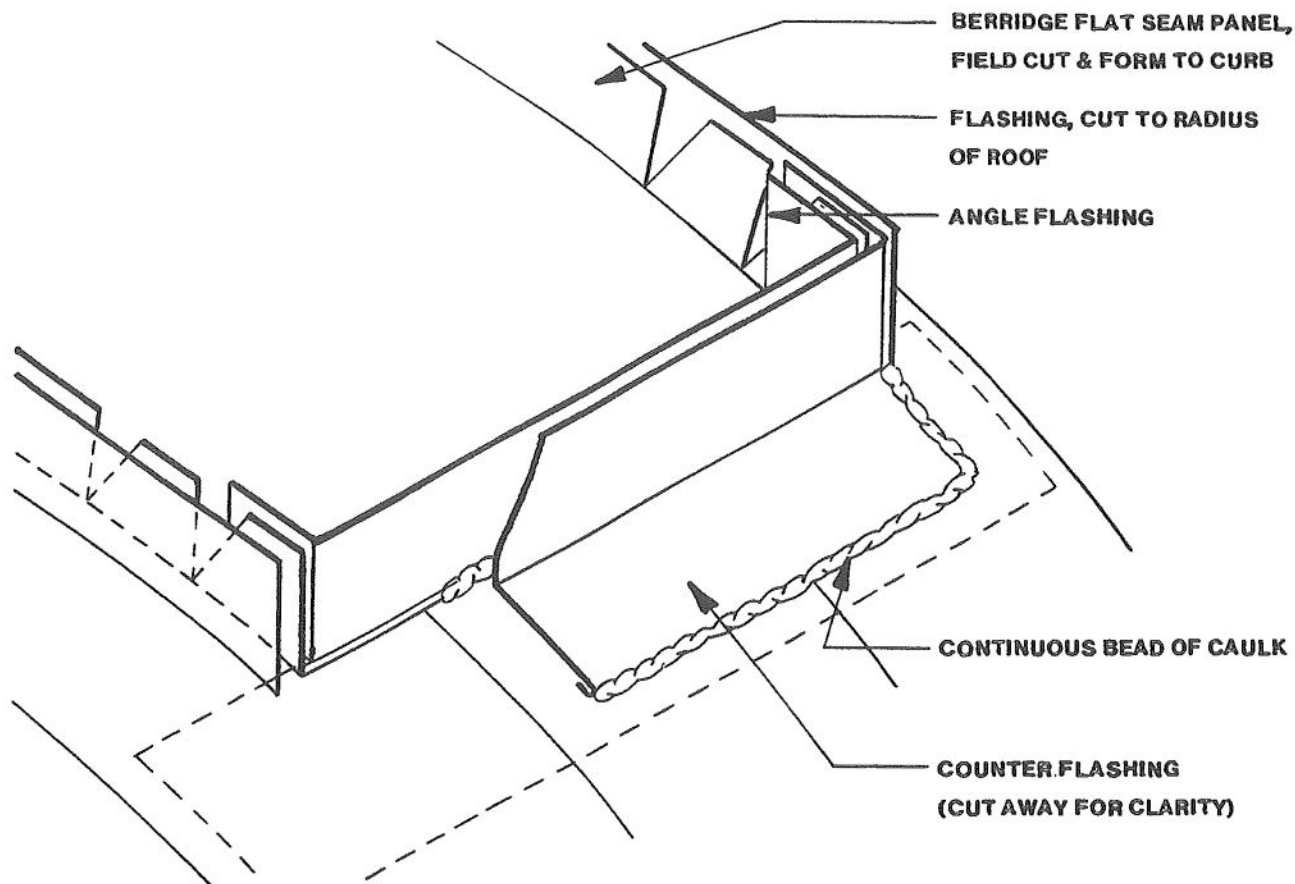
Roofs of Distinction

ROOF PENETRATION SECTION B

FLAT SEAM PANEL

DATE
12/1/89

FS-84



DATE
12/1/89

ROOF PENETRATION ISOMETRIC

FS-85

FLAT SEAM PANEL



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