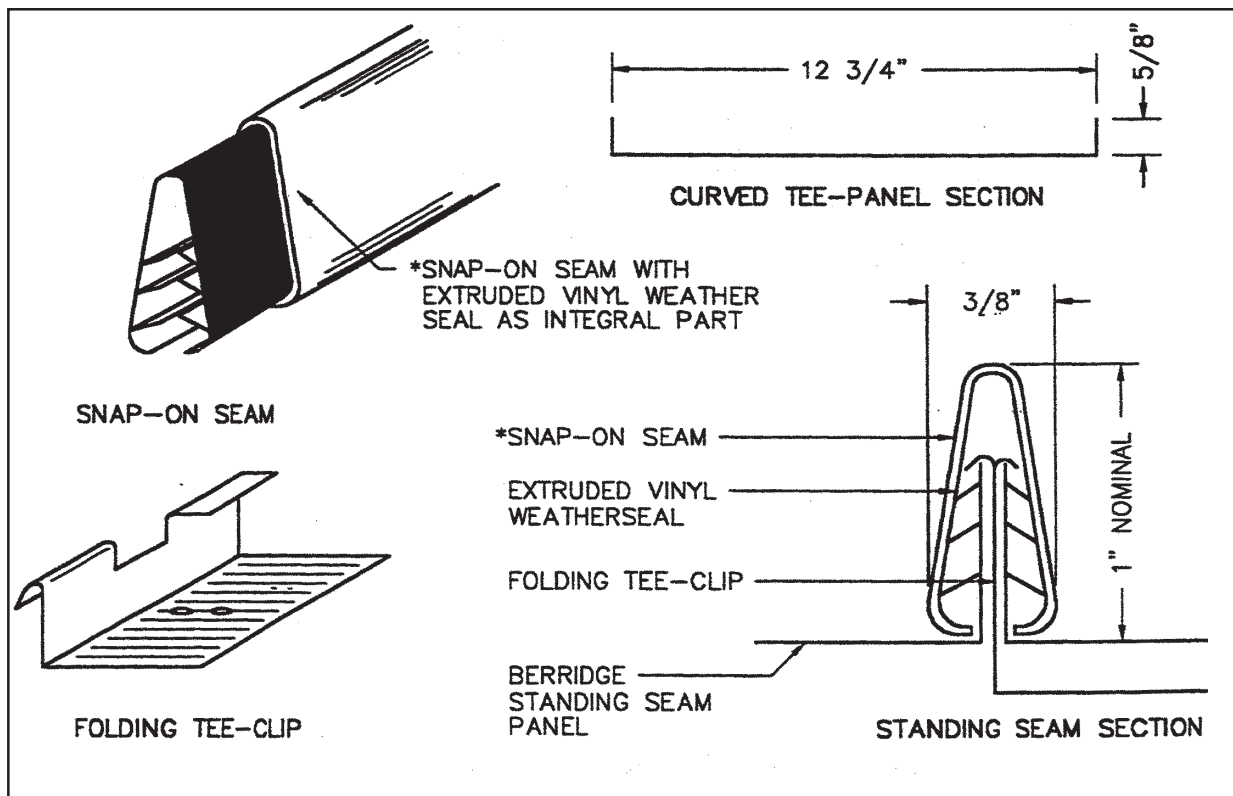


# **CURVED TEE-PANEL TYPICAL INSTALLATION DETAILS**

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**BERRIDGE MANUFACTURING COMPANY**  
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# CURVED TEE-PANEL

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- A. BERRIDGE CURVED TEE-PANEL:** AVAILABLE WITH A PAN WIDTH OF 12-3/4" AND USED WITH THE BERRIDGE PATENTED SNAP-ON SEAM (US PATENT NO. 4,641,475) TO PROVIDE A CONSTANT SEAM HEIGHT OF 1".

THE 12-3/4" PAN IS FIELD FABRICATED USING THE BERRIDGE MODEL SS-14 PORTABLE ROLL FORMER.

PLEASE CONTACT BERRIDGE MANUFACTURING COMPANY FOR FURTHER INFORMATION REGARDING THE BERRIDGE SS-14 PORTABLE ROLL FORMER.

- B. RADIUS LIMITATIONS:** THE MINIMUM RADIUS OVER WHICH THE BMC TEE-PANEL CAN BE CURVED IS 3'-0". WHEN PREWEATHERED GALVALUME, PREFINISHED GALVALUME OR UNFINISHED GALVALUME PANELS ARE USED, THE MINIMUM RADIUS RECOMMENDED IS 5'-0" FOR CONVEX SURFACES.

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 BUILDUP OF SNOW OR ICE.

A RADIUS THAT PROVIDES FOR 1" OF RISE PER 12" OF HORIZONTAL RUN IS THE RECOMMENDED MINIMUM APPLICATION EXCEPT IN AREAS WHERE HEAVY SNOW OR NUMEROUS FREEZE-THAW CYCLES OCCUR. IN THESE AREAS, THE RADIUS SHOULD PROVIDE A MINIMUM RISE OF 3" PER 12" OF HORIZONTAL RUN.

- C. COMBINATION STRAIGHT AND CURVED PANELS:** A ONE-PIECE COMBINATION CURVED RADIUS AND STRAIGHT PANEL CAN NORMALLY BE FORMED TO AVOID END LAP SPLICE OR FLASHING.

- D. LENGTH LIMITATIONS:** DUE TO THE METHOD OF FABRICATION THERE IS NO RESTRICTION ON THE MAXIMUM LENGTH OF CURVED PANEL WHICH CAN BE PRODUCED. THERE MAY, HOWEVER BE SOME LOGISTICAL RESTRICTIONS THAT COULD AFFECT THE ABILITY OF THE CONTRACTOR TO ECONOMICALLY INSTALL EXTREMELY LONG CURVED PANELS, ESPECIALLY WHERE THE CONFIGURATION INVOLVES A COMBINATION OF STRAIGHT AND CURVED PANEL.

- E. SEAM LENGTHS:** WILL NORMALLY BE LIMITED TO A MAXIMUM LENGTH OF 40'-0". USE SEAM SPLICE DETAIL CT-5 AND CT-6 FOR LONGER SEAM COVERAGE.

- F. 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.



## INSTALLATION INSTRUCTIONS

### CURVED TEE-PANEL

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**G. 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.

**H. 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" 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.

**SHEATHING INSPECTION:**

1. 24 GAUGE METAL CORRUGATED (NOMINAL 2-1/2" PITCH, 11/16" DEPTH) OR A MINIMUM OF 1/2" THICK PLYWOOD OR EQUIVALENT, TO PROVIDE NECESSARY HOLDING STRENGTH FOR FASTENERS, MUST BE USED.
2. END JOINTS OF SUBSTRATE (SHEATHING) SHOULD BE STAGGERED.
3. ALL ENDS SHOULD MEET AT EITHER A JOIST OR RAFTER.
4. BLOCKING OR "H" CLIPS SHOULD BE USED IF JOINTS DO NOT REMAIN FLAT UNDER WEIGHT OF WORKMEN.
5. USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN. UNEVEN SUBSTRATE CAN RESULT IN "OIL-CANNING" IN PANEL. SUBSTRATE SHOULD BE LEVEL TO 1/4" IN 20'.
6. ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.
7. USE WOOD FRAMED CRICKETS AT LARGE PENETRATIONS.
8. MAKE SURE SUBSTRATE JOINTS ARE TIGHT AT ALL HIPS, VALLEYS AND RIDGES.

**I. FASCIA/RAKE INSPECTION:**

1. STRIKE A LINE THE FULL LENGTH OF FASCIA/RAKE; IF NOT STRAIGHT, CORRECT WITH SHIMS.
2. MAKE SURE FASCIA/RAKE IS FLUSH WITH SHEATHING.

**ICE AND WATER SHIELD UNDERLAYMENT INSTALLATION:**

1. DO NOT USE RED ROSIN PAPER UNDER METAL ROOFING.
2. SWEEP ROOF AREA CLEAN.
3. FOLLOW BERRIDGE FELTING DETAILS, USING ICE AND WATER SHIELD IN PLACE OF # 30 FELT UNDERLAYMENT.
4. INSTALL VALLEY UNDERLAYMENT FIRST.
5. INSTALL UNDERLAYMENT PARALLEL TO EAVE, STARTING AT EAVE AND USING 6" LAPS.

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**CURVED TEE-PANEL**

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

J. **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 CTI-7 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.

K. **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.

L. **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.

**M. FLASHING INSTALLATION:**

1. REMOVE STRIPPABLE PLASTIC FILM FORM 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.

N. **PANELS:** BERRIDGE MANUFACTURING COMPANY WILL PROVIDE COIL STOCK FOR CURVED TEE-PANELS. COMPUTATION OF ALL QUANTITIES AND DIMENSIONS ARE THE RESPONSIBILITY OF THE PURCHASER.

**O. PANELS FABRICATION AND INSTALLATION:**

1. THE CURVED TEE-PANEL IS A FIELD-FORMED PANEL, FABRICATED ON THE BERRIDGE MODEL SS-14 PORTABLE ROLL FORMER.
2. PERIODICALLY CHECK THE PANELS AND SEAMS WITH THE RADIUS OF THE SUBSTRATE TO MAKE SURE OF PROPER FIT. PANELS OF IMPROPER RADIUS SHOULD NOT BE FORCED TO FIT SUBSTRATE.
3. REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL PRIOR TO INSTALLATION.
4. DETERMINE CENTER LINE OF ROOF AREA AND START PANEL INSTALLATION AT CENTER OF ROOF, WORKING TOWARDS THE GABLE ENDS. MAKE SURE PANELS ARE PERPENDICULAR TO EAVE. AT VALLEY AREAS, MAKE SURE PANELS ARE INSTALLED SO THAT DRAINAGE HAS FREE FLOW AND IS NOT OBSTRUCTED BY PANEL SEAMS.



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**CURVED TEE-PANEL**

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5. INSTALL FOLDING TEE-CLIPS PER DETAILS; NEVER EXCEED 20" ON CENTER. CHECK WITH BERRIDGE MANUFACTURING COMPANY FOR SPECIAL CLIP SPACING IF A SPECIFIC WIND UPLIFT RATING IS REQUIRED.
  6. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LEGS. ANY CRIMPS IN VERTICAL LEGS MUST BE STRAIGHTENED (TOTALLY STRAIGHT WITHOUT ANY BENDS, CRIMPS, CREASES, ETC.) PRIOR TO SEAM INSTALLATION.
  7. **ALWAYS** INSTALL SEAMS AS YOU INSTALL **EACH** PANEL. DO NOT INSTALL PANELS FIRST AND THEN FOLLOW LATER WITH SEAM INSTALLATION.
  8. USE TWO (2) WORKERS (OR MORE, DEPENDING ON LENGTH) TO INSTALL SEAMS; ONE WORKER HOLDING ONE END OF THE SEAM AT AN ANGLE OFF THE ROOF SURFACE AND THE OTHER WORKER INSERTING THE SEAM OVER THE PANEL LEGS.
  9. **NEVER** INSTALL SEAMS WITH ANYTHING OTHER THAN HAND PRESSURE. INSPECT EACH SEAM AS YOU INSTALL TO MAKE SURE THE VINYL IS PROPERLY SEATED IN THE METAL CAP AND IS SNUGGLE FIT NEXT TO PANEL LEGS. **DO NOT** POUND OR HAMMER THE SEAM INTO PLACE. THIS WILL DAMAGE THE SEAMS AND PERMIT WATER INFILTRATION.
  10. KEEP PANELS ALIGNED SO THAT SEAM MATCH AT HIPS, VALLEYS AND WHERE VERTICAL PANELS ADJOIN ROOF PANELS. DO NOT INSTALL LONG, CONTINUOUS RUNS OF PANELS ALL AT ONE TIME WHERE SEAM LINES MUST MATCH; INSTALL TEN OR TWELVE PANELS IN ONE ELEVATION AN THEN FOLLOW WITH A LIKE NUMBER OF PANELS ON THE OTHER ELEVATION. WHEN YOU INSTALL PANELS IN MANNER, YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO INSURE SEAM MATCHING.
  11. 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.**
- P. **SNAP-ON SEAM:** BERRIDGE PATENTED SNAP-ON SEAMS HAVE BEEN LABORATORY TESTED ON BOTH SOLID WOOD SUBSTRATE AN METAL FRAMING, BOTH ASSEMBLIES SHOWED NO SIGNIFICANT LEAKAGE IN ACCORDANCE WITH THE ASTM E 283-84 AND ASTM E 331-86 AIR AND WATER INFILTRATION TESTS. TEST REPORTS ARE AVAILABLE UPON REQUEST.

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## INSTALLATION INSTRUCTIONS

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## CURVED TEE-PANEL

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**Q. SNAP-ON SEAM INSTALLATION:**

1. INSTALL SEAMS WITH HAND PRESSURE ONLY. DO NOT POUND OR HAMMER SEAMS INTO PLACE; THIS WILL DAMAGE THE SEAM AND VINYL, PERMITTING WATER INFILTRATION.
2. INSPECT EACH SEAM AS YOU INSTALL IT TO MAKE SURE THE VINYL IS PROPERLY SEATED IN THE METAL CAP AND IS SNUGLY FITTED NEXT TO THE PANEL LEGS.
3. USE TWO (2) WORKERS (OR MORE, DEPENDING ON SEAM LENGTH) TO INSTALL SEAMS; ONE WORKER (OR WORKERS) HOLDING ONE END OF THE SEAM AT AN ANGLE OFF THE ROOF SURFACE AND THE OTHER WORKER INSERTING THE SEAM OVER THE PANEL LEGS.
4. REMOVE STRIPPABLE FILM FROM SEAM PRIOR TO INSTALLATION.

**R. TEE-CLIP INSTALLATION:**

1. THE CLIPS ARE TO BE INSTALLED AS SHOWN IN THE BERRIDGE TEE-PANEL DETAILS.
2. CLIP SPACING IS TYPICALLY TWENTY (20) INCHES ON CENTER.\*

- 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 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.

- T. UNDERWRITERS LABORATORIES RATINGS:** THE BERRIDGE TEE-PANEL COMPLIES WITH THE FOLLOWING UL RATINGS:

1. "TEST FOR WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES" CLASS UL 90 CONSTRUCTION NUMBER 296. (REFER TO BERRIDGE TYPICAL DETAIL T-90)
2. UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NUMBERS P-224, 225, 227, 230, 237, 508, 510, 512, 701, 711, 713, 715, 717, 803, 814, 815, 819, 821. REFER TO BERRIDGE TYPICAL DETAILS CT-91, CT-92, AND CT-93.

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

\*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.

\*\*CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING THE USE OF ANY OTHER TYPE OF FASTENER.



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**CURVED TEE-PANEL**

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**V. FRAMING COMPONENTS:** BERRIDGE MANUFACTURING COMPANY CAN FURNISH FRAMING COMPONENTS FOR CANOPIES AND BARREL VAULTS, UTILIZING VARIOUS FRAMING MEMBERS SUCH AS THOSE ILLUSTRATED IN THE BERRIDGE SWEET'S CATALOG (07610/BER).

1. PERLIMINARY FRAMING DESIGN FOR ALL CANOPIES AND BARREL VAULTS CAN BE PROVIDED BY BMC FOR BERRIDGE - SUPPLIED MATERIALS, FOR THE SOLE PURPOSE OF ESTABLISHING A QUOTED PRICE. FINAL DESIGN, CERTIFICATION AND CALCULATIONS WILL BE FURNISHED ONLY UPON THE RECEIPT OF A PURCHASE ORDER FOR THE MATERIALS AND INCLUDING THE COST OF THE ENGINEERING DEPARTMENT FOR FURTHER INFORMATION.

**W. ORDERING INFORMATION:** BMC WILL SUPPLY COIL, STRAIGHT SEAMS, ACCESSORIES, AND FLAT SHEETS OR FACTORY - FORMED FLASHING AND FRAMING COMPONENTS TO THE BERRIDGE ROLL FORMER OWNER OR LEASEE. PANELS WILL BE FIELD - FABRICATED AND CURVED ALONG WITH THE SEAMS ON A BERRIDGE SS-14 PORTABLE ROLL FORMER. ALL QUANTITIES AND DIMENSIONS ARE THE RESPONSIBILITY OF THE PURCHASER.

IF BERRIDGE MANUFACTURING COMPANY IS TO SUPPLY FLASHINGS, THE PURCHASER MUST PROVIDE ALL DIMENSIONS AN DEGREE OF ANGLES. ALL FLASHING WILL BE PROVIDED IN 10'-0" LENGTHS ONLY.

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 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 TEE-PANEL SYSTEM.

**NOTE:** ALL PRODUCTS, SPECIFICATIONS, DETAILS, AND INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.

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## INSTALLATION INSTRUCTIONS

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## CURVED TEE-PANEL

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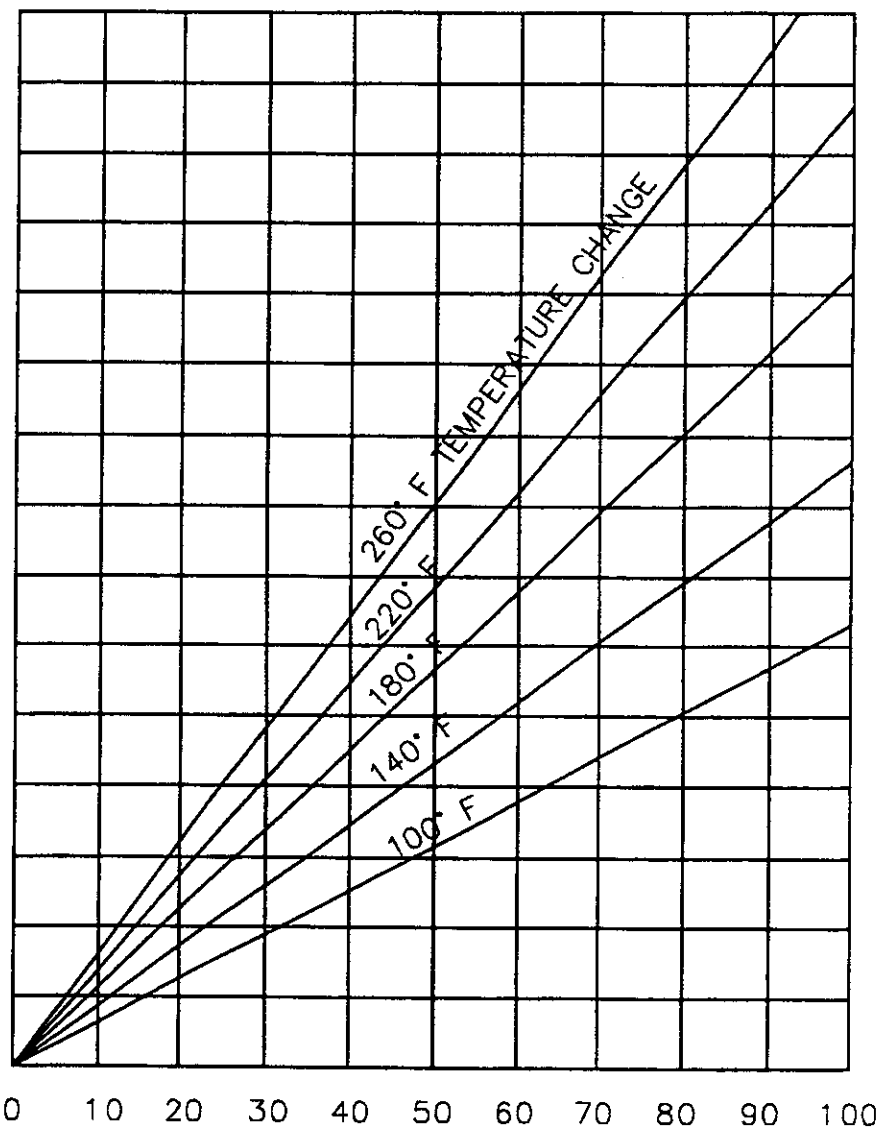


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TOTAL MOVEMENT - INCHES - FOR STEEL PANELS

1 3/4  
1 5/8  
1 1/2  
1 3/8  
1 1/4  
1 1/8  
1  
7/8  
3/4  
5/8  
1/2  
3/8  
1/4  
1/8



1 3/4  
1 5/8  
1 1/2  
1 3/8  
1 1/4  
1 1/8  
1  
7/8  
3/4  
5/8  
1/2  
3/8  
1/4  
1/8

DISTANCE FROM FIXED POINT IN FEET

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 EMPHASIZED 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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APPLICATION NOTES  
NOMINAL LINEAR EXPANSION

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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 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.

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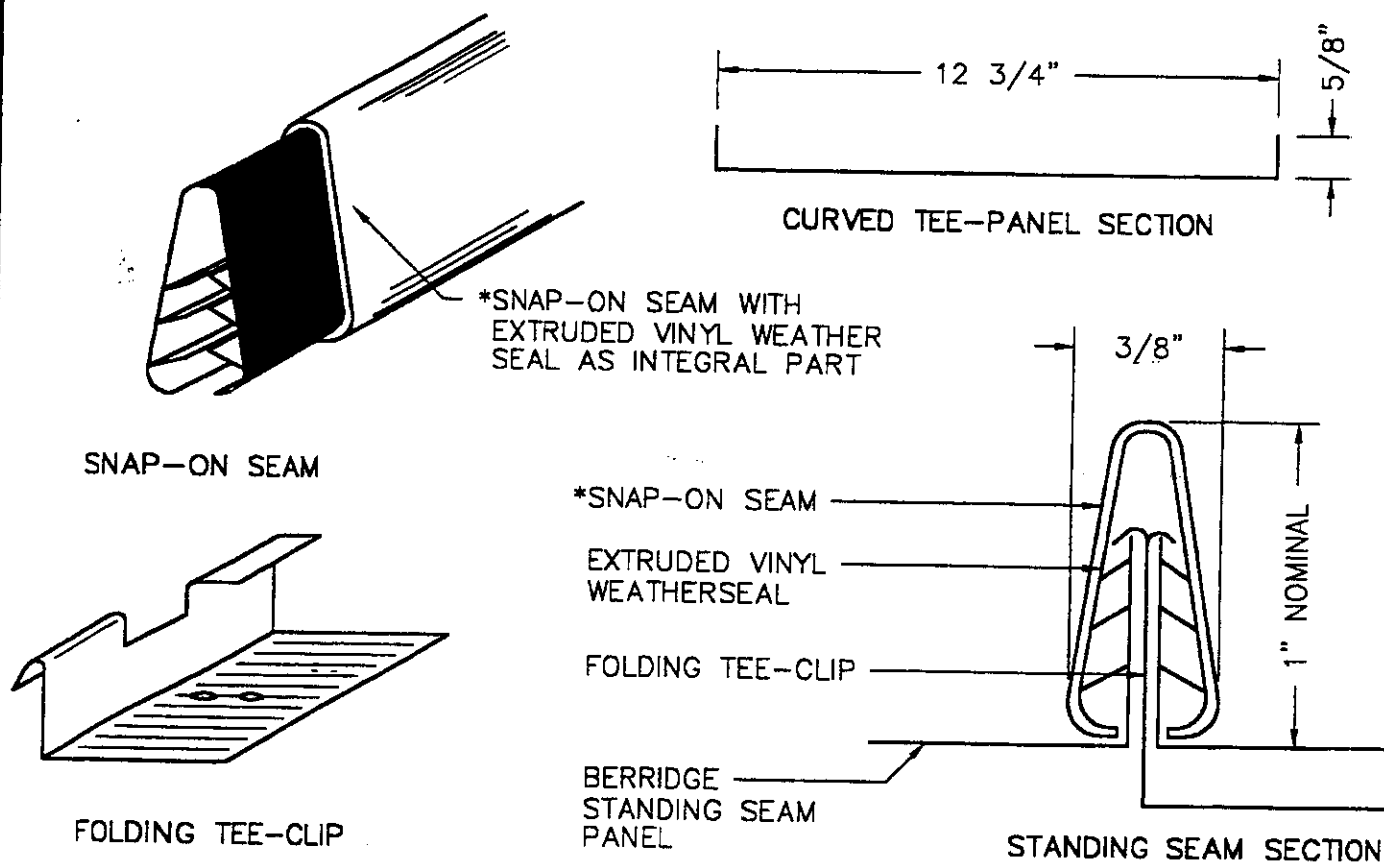
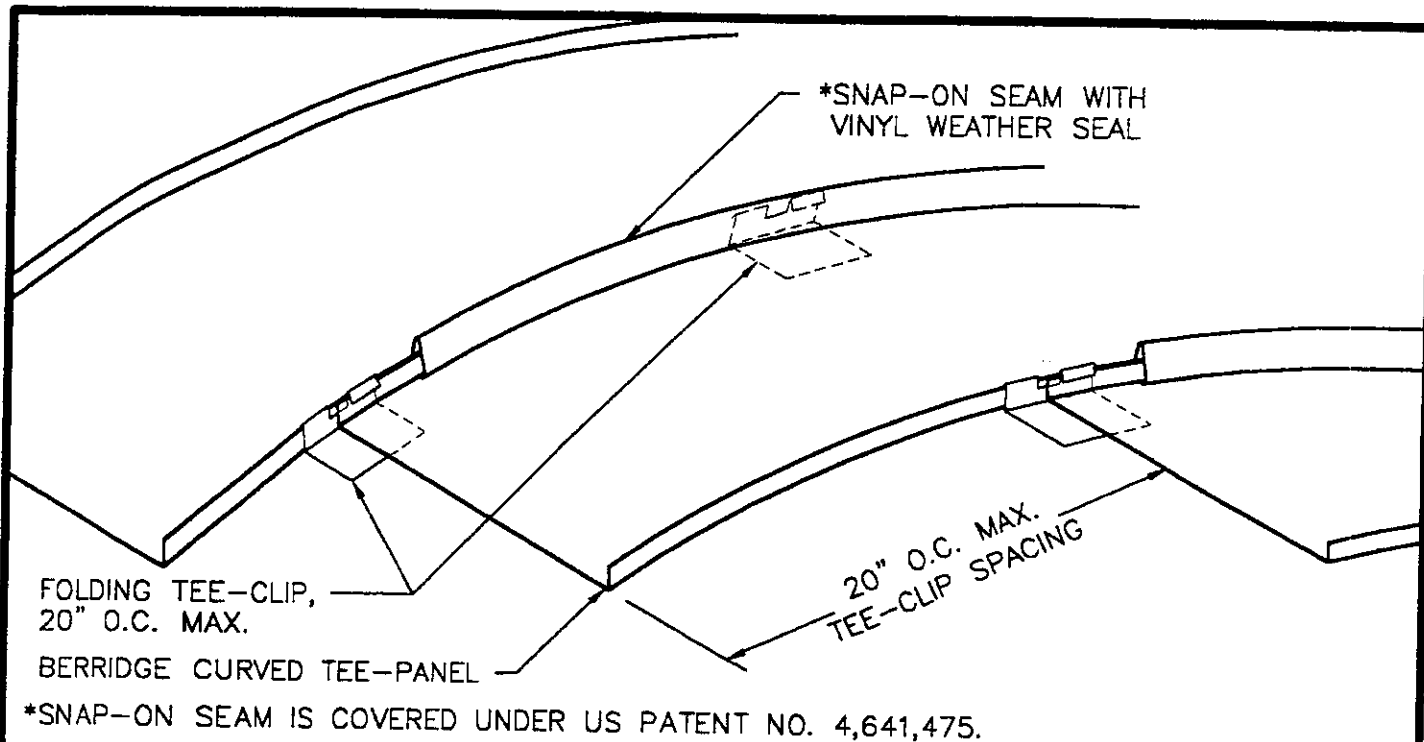
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# OVERVIEW CURVED TEE-PANEL SYSTEM

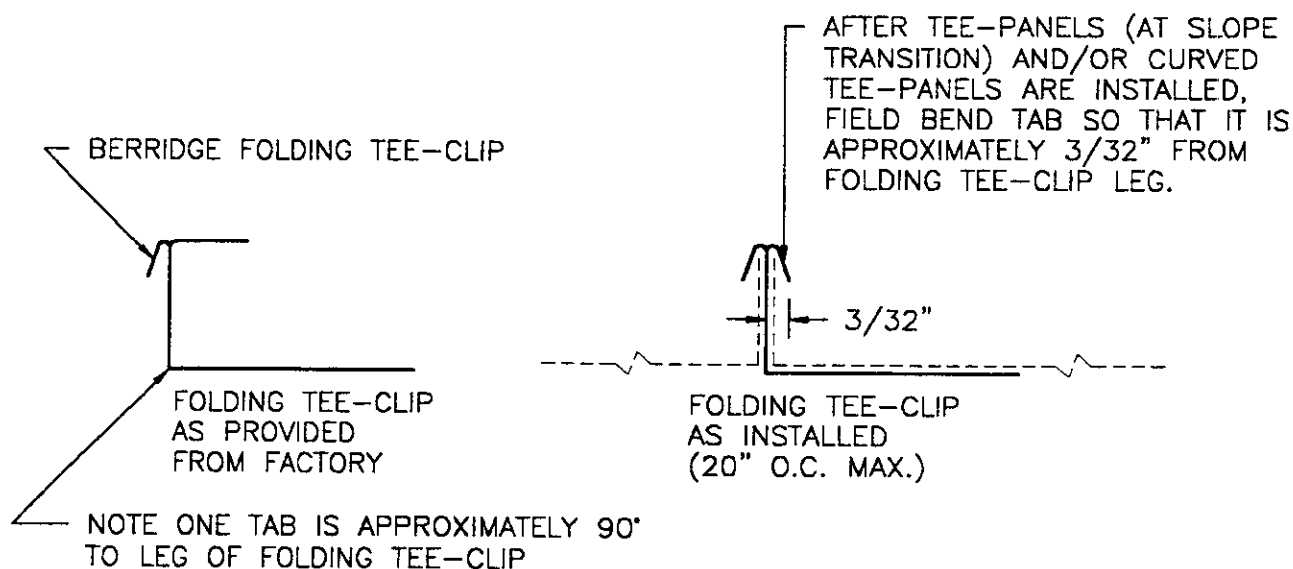
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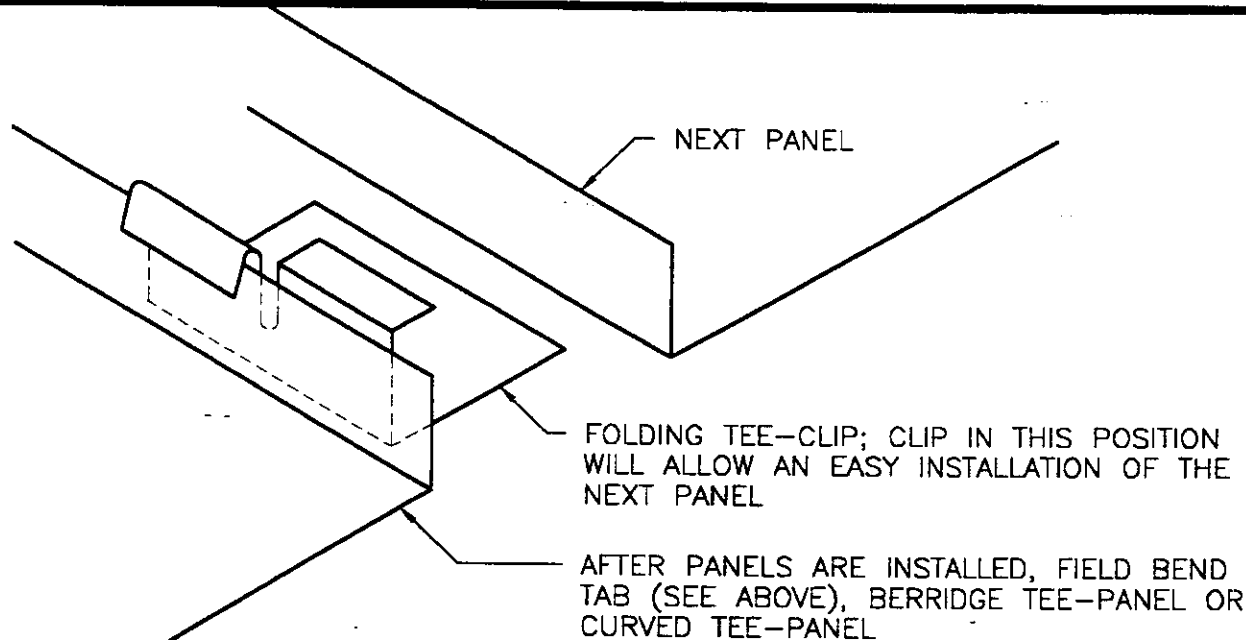


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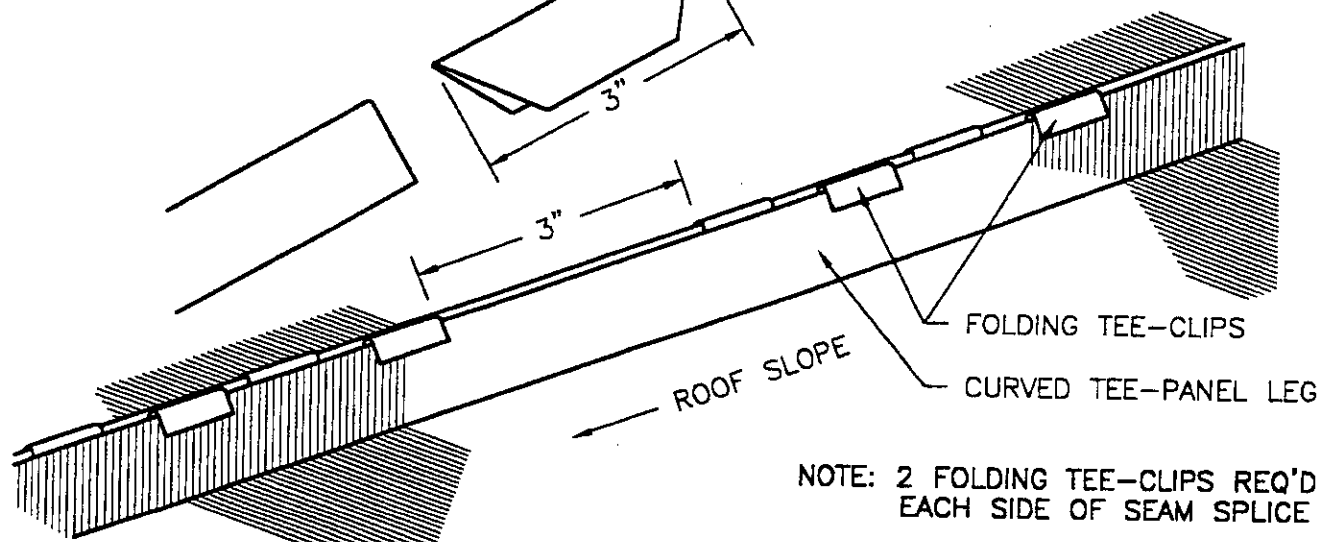
1. AFTER FOLDING TEE-CLIPS AND TEE-PANELS OR CURVED TEE-PANELS ARE INSTALLED, FIELD BEND FOLDING TEE-CLIP TAB SO THAT IT IS APPROXIMATELY 3/32" FROM CLIP LEG. DO NOT BEND TAB TIGHT AGAINST PANEL LEG AS VINYL INSERT IN SEAM WILL THEN NOT GRIP THE EDGE OF THE TAB.
2. USE FOLDING TEE-CLIP THROUGHOUT CURVED TEE-PANEL SYSTEM.
3. USE FOLDING TEE-CLIP AT SLOPE TRANSITION (ROOF TO FASCIA) FOR STANDARD TEE-PANEL, USE STANDARD TEE-CLIP THROUGHOUT REST OF STANDARD TEE-PANEL SYSTEM.



\*BERRIDGE SNAP-ON SEAM WITH VINYL WEATHER SEAL

CAULK AT END OF VINYL (CAULK SHOULD SEAL GAP BETWEEN THE TWO SEAMS)

SEAM SLEEVE; PLACE INTO SEAMS BETWEEN METAL AND VINYL, COLOR TO MATCH SEAMS. SLIDE SEAMS TOGETHER AND SNAP INTO PLACE

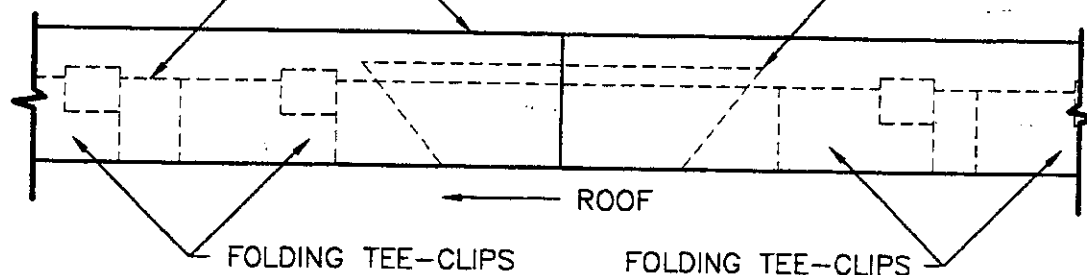


NOTE: 2 FOLDING TEE-CLIPS REQ'D EACH SIDE OF SEAM SPLICE

SEAM SLEEVE PLACED INTO SEAMS BETWEEN METAL AND VINYL BEFORE SEAMS ARE SNAPPED INTO PLACE ON CURVED TEE-PANEL LEG

\*SNAP-ON SEAM

CURVED TEE-PANEL LEG



NOTE: 1) SPLICES IN SEAMS AND PANELS SHOULD BE STAGGERED. NEVER SPLICE A PANEL AND A SEAM AT THE SAME LOCATION.

2) TWO FOLDING TEE-CLIPS REQUIRED AT EACH SIDE OF SEAM SPLICE.

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

DATE: 11-01-97

SEAM SPLICE DETAIL

PAGE\FILE

CT-5

CURVED TEE-PANEL



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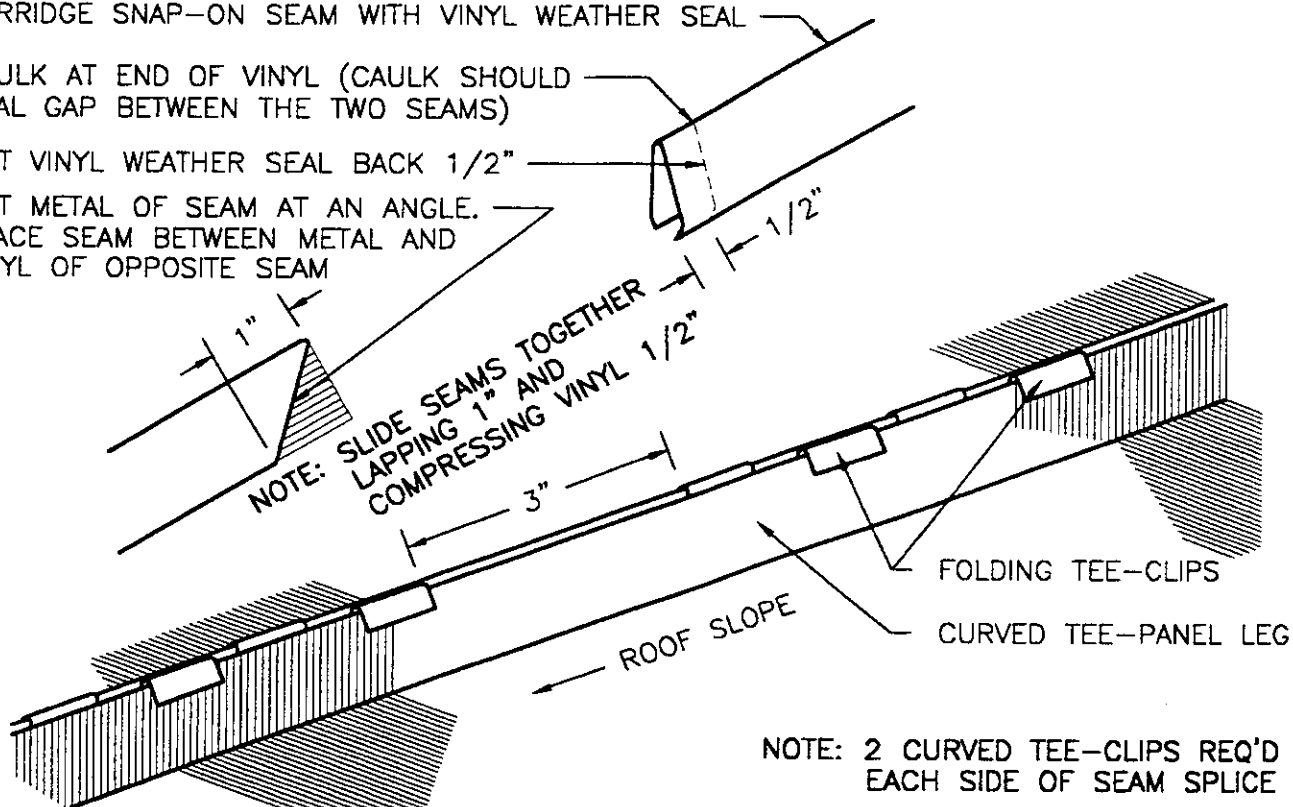
Roofs of Distinction

**\*BERRIDGE SNAP-ON SEAM WITH VINYL WEATHER SEAL**

CAULK AT END OF VINYL (CAULK SHOULD SEAL GAP BETWEEN THE TWO SEAMS)

CUT VINYL WEATHER SEAL BACK 1/2"

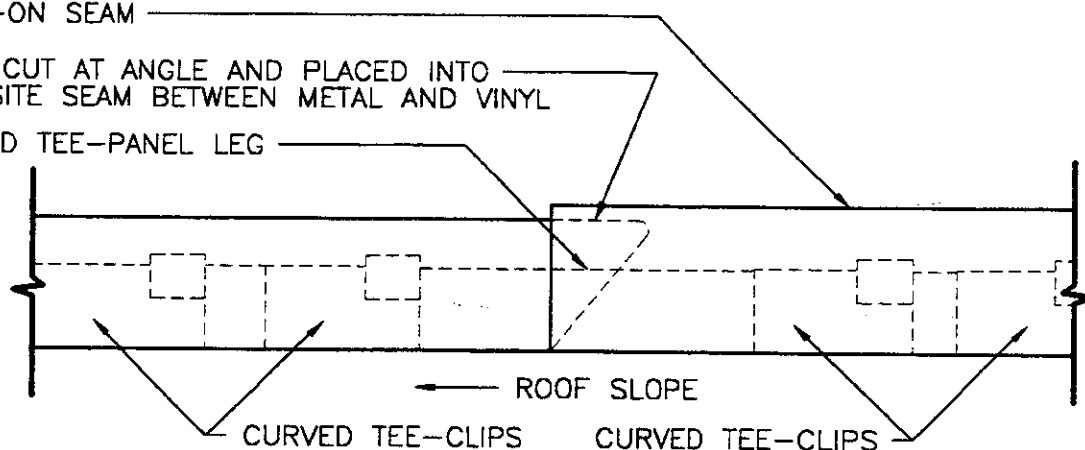
CUT METAL OF SEAM AT AN ANGLE.  
PLACE SEAM BETWEEN METAL AND VINYL OF OPPOSITE SEAM



**\*SNAP-ON SEAM**

SEAM CUT AT ANGLE AND PLACED INTO OPPOSITE SEAM BETWEEN METAL AND VINYL

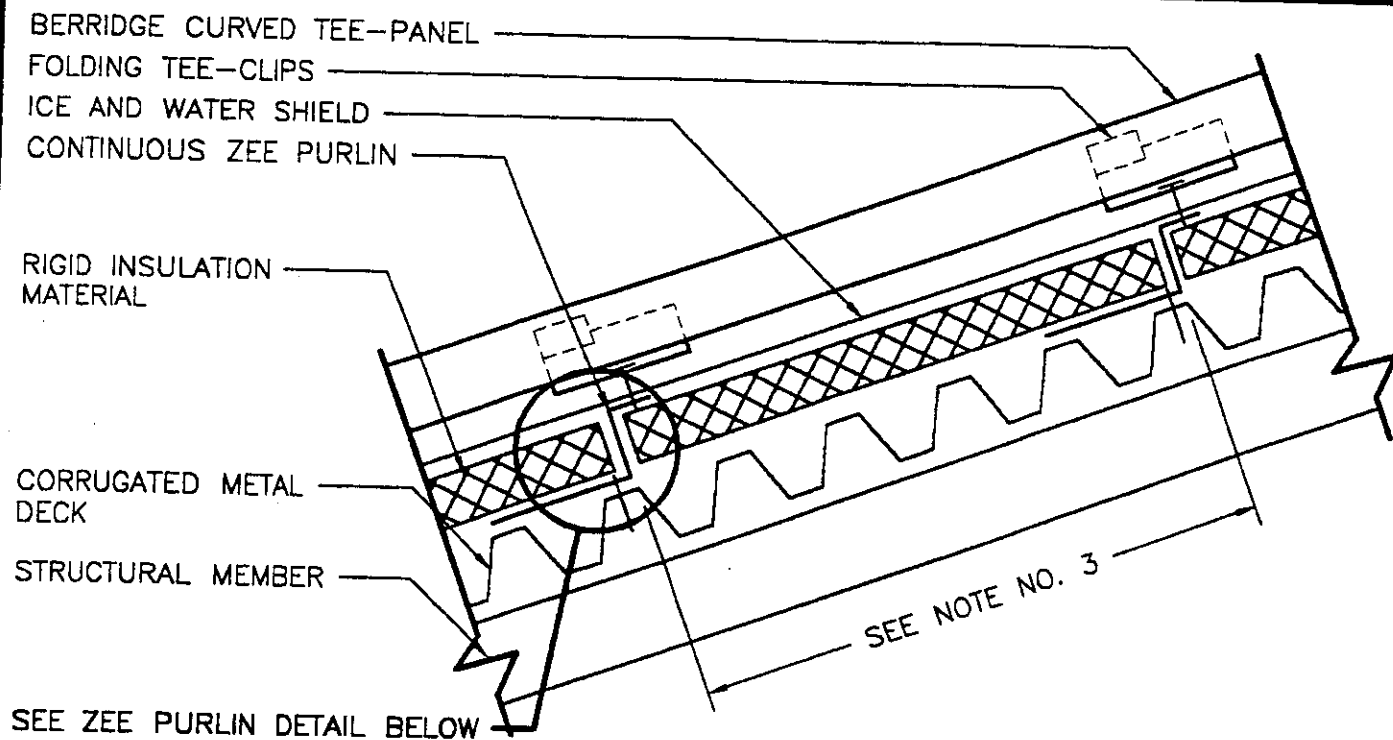
CURVED TEE-PANEL LEG



NOTE: 1) SPLICES IN SEAMS AND PANELS SHOULD BE STAGGERED.  
NEVER SPLICE A PANEL AND A SEAM AT THE SAME LOCATION.

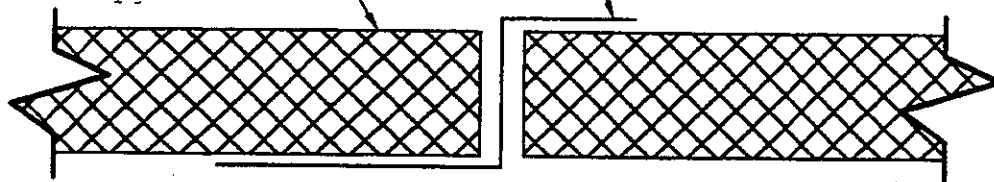
2) TWO CURVED TEE-CLIPS REQUIRED AT EACH SIDE OF SEAM SPLICE.

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.



1. ALL UNDERLAYMENT, STRUCTURAL MEMBERS, CORRUGATED DECK, AND INSULATING MATERIAL, ARE ITEMS TO BE FURNISHED AND INSTALLED BY OTHERS AT THE DISCRETION OF THE ARCHITECT.
2. CONTINUOUS WOOD BLOCKING (BY OTHERS) MAY BE USED IN LIEU OF ZEE PURLINS. BLOCKING MUST BE EXACT SAME DEPTH AS INSULATION.
3. PURLIN SPACING AND FASTENER TYPE WILL BE DEPENDENT ON GOVERNING CODE AND SPECIFICATION REQUIREMENTS. CONTACT BERRIDGE FOR SPECIFIC INFORMATION.
4. RIGID INSULATION MUST HAVE ADEQUATE COMPRESSIVE STRENGTH TO SUPPORT THE WEIGHT OF A 300 POUND MAN WITHOUT CAUSING ANY DEFORMATION IN THE PANEL.
5. DEPTH OF ZEE PURLINS MUST BE GOVERNED BY INSULATION THICKNESS. ANY DEVIATION COULD BE CAUSE FOR DAMAGE TO PANELS OR LEAKS.

ZEE PURLIN; MINIMUM 24 GAUGE STEEL, DEPTH  
DETERMINED BY INSULATION DEPTH AND LEGS  
DETERMINED BY PITCH OF METAL DECK  
BUTT INSULATION UP TO PURLIN



ZEE PURLIN DETAIL

DATE: 11-01-97

INSULATED DECK DETAIL

PAGE\FILE

CT-7

**TEE-PANEL SYSTEM**

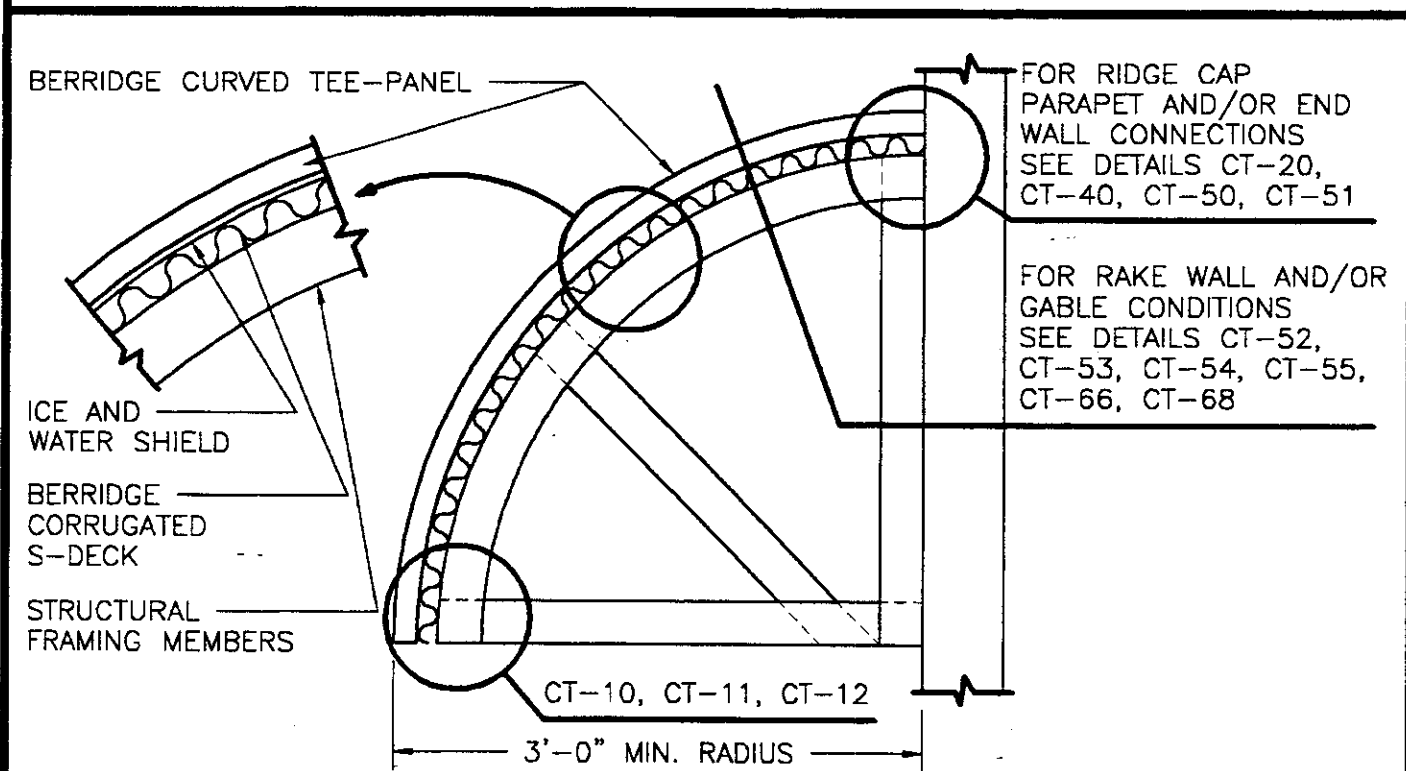
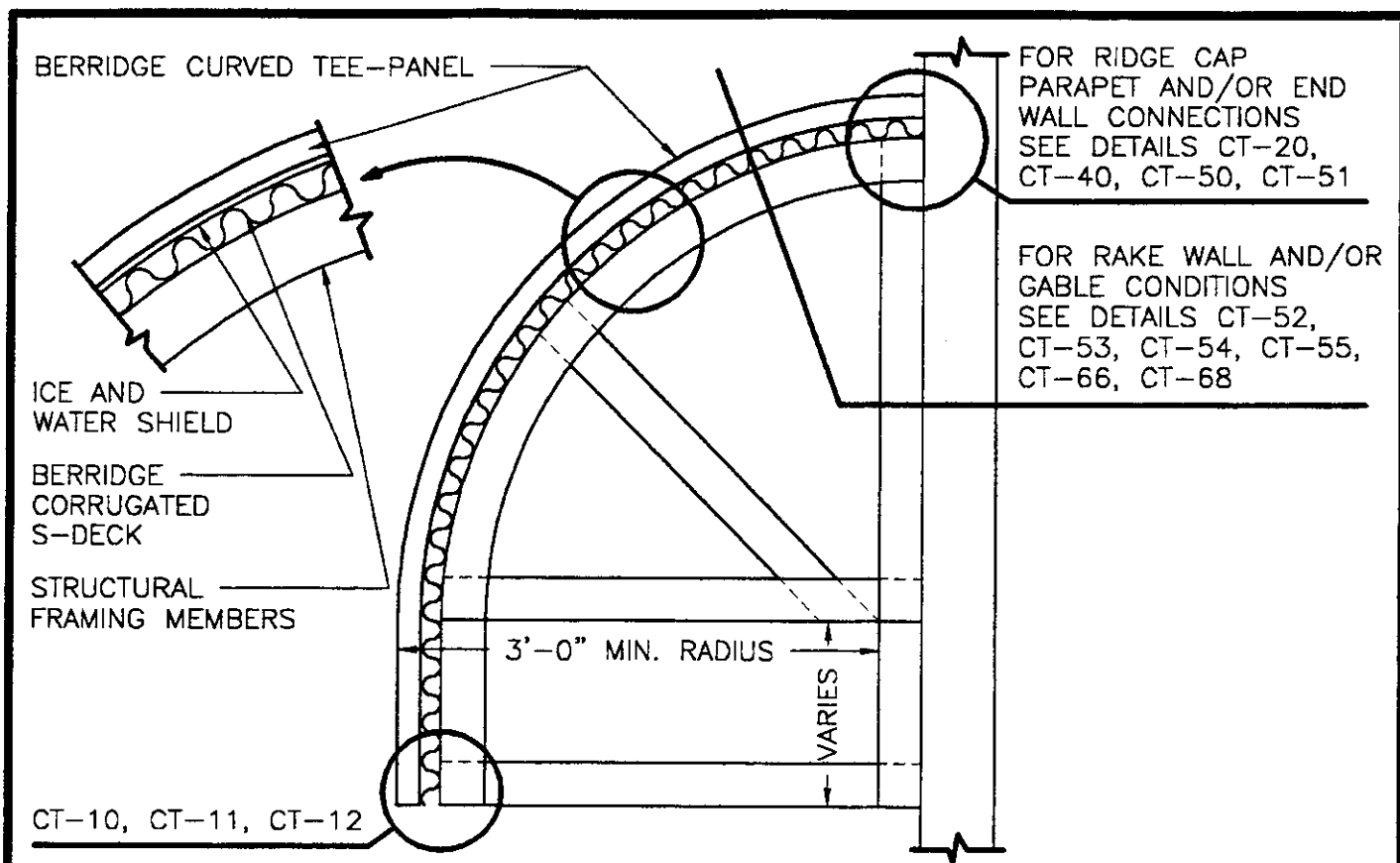
**BERRIDGE**



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CANOPY SECTIONS — CONVEX

**CURVED TEE-PANEL**

DATE: 11-01-97

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CT-8

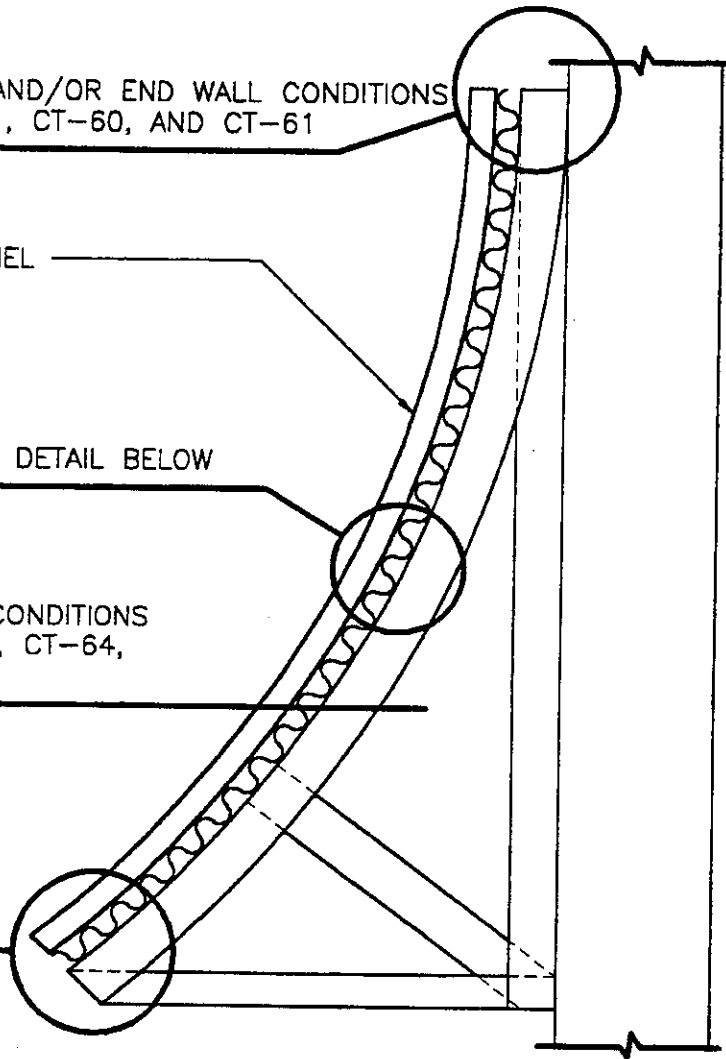
FOR RIDGE CAP, PARAPET AND/OR END WALL CONDITIONS  
SEE DETAILS CT-21, CT-41, CT-60, AND CT-61

BERRIDGE CURVED TEE-PANEL  
3'-0" MIN. RADIUS

SEE DETAIL BELOW

FOR RAKE AND/OR GABLE CONDITIONS  
SEE DETAILS CT-62, CT-63, CT-64,  
CT-65, CT-67, AND CT-69

SEE DETAILS CT-13,  
CT-14, AND CT-15

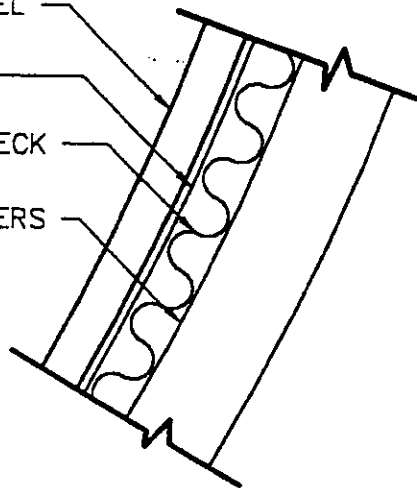


BERRIDGE CURVED TEE-PANEL

ICE AND WATER SHIELD

BERRIDGE CORRUGATED S-DECK

STRUCTURAL FRAMING MEMBERS



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CANOPY SECTION — CONCAVE

PAGE\FILE

CT-9

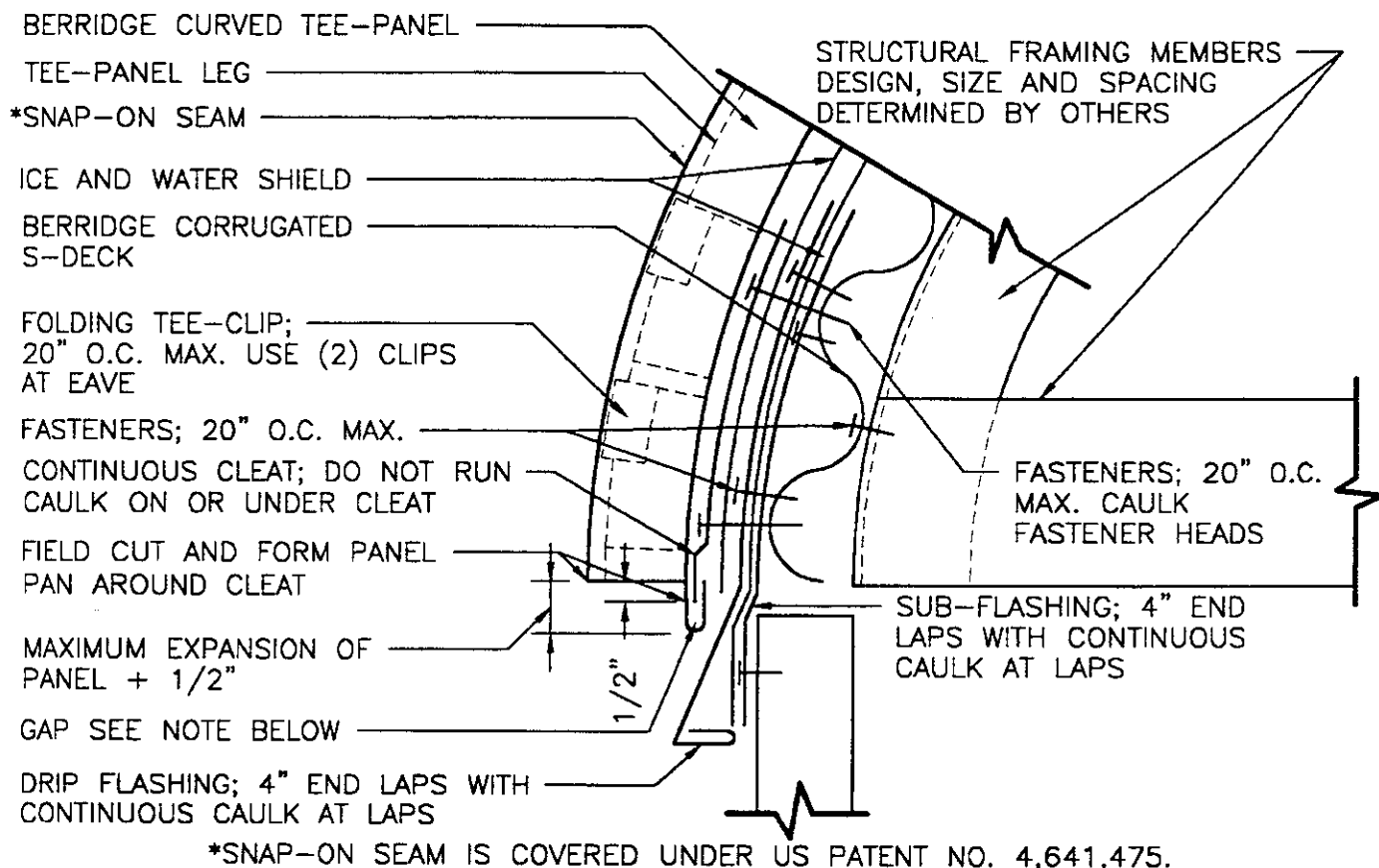
**CURVED TEE-PANEL**

**BERRIDGE**

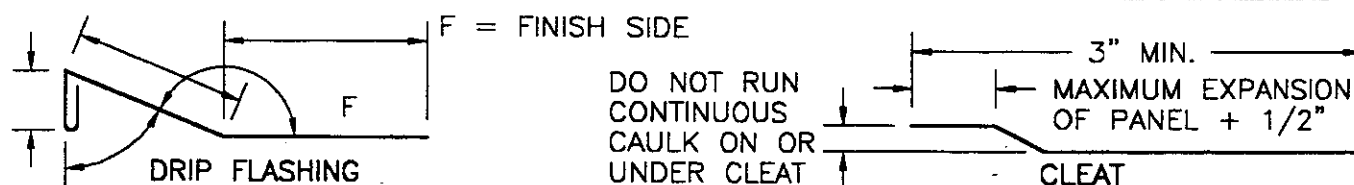


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1. THE "GAP" BETWEEN CLEAT AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PANEL PAN MUST BE ENGAGED WITH CLEAT WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. REFER TO DETAIL CTA-4.
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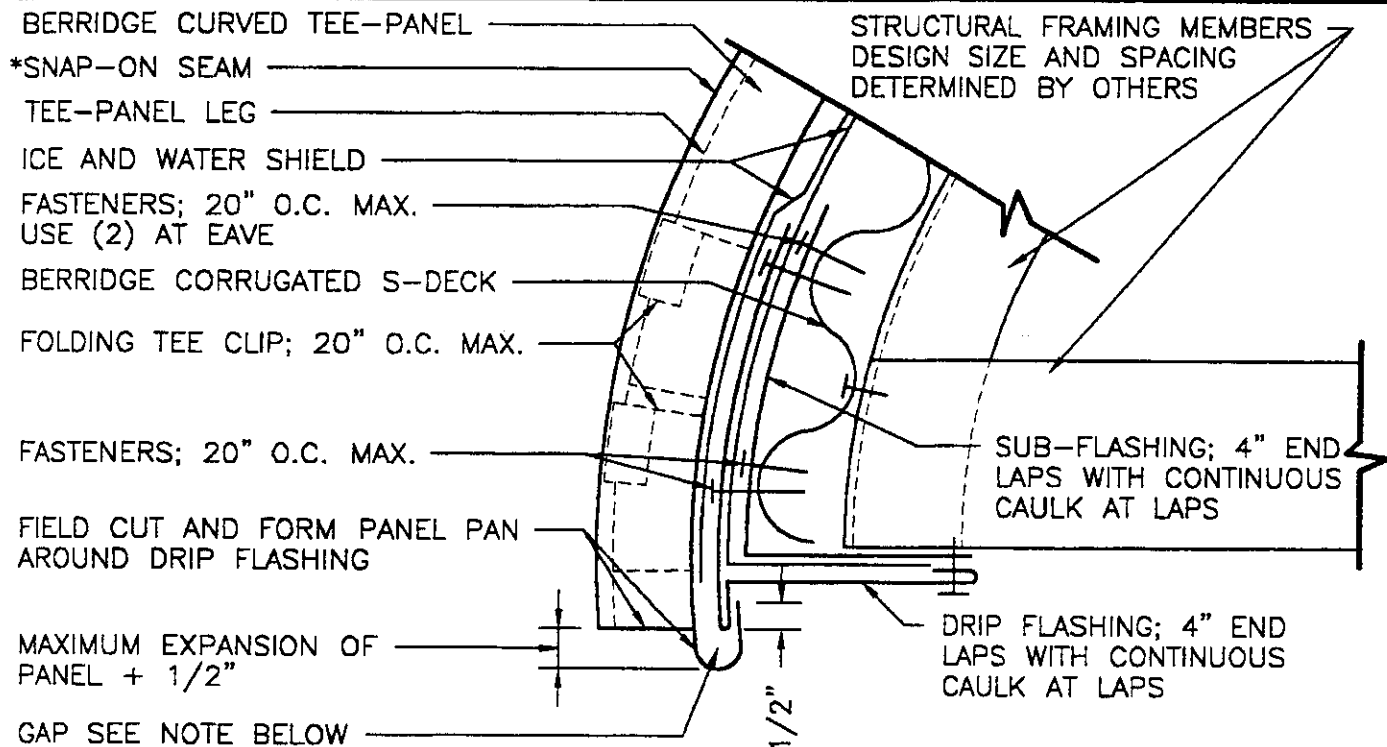
EAVE DETAIL - CONVEX

**CURVED TEE-PANEL**

DATE: 11-01-97

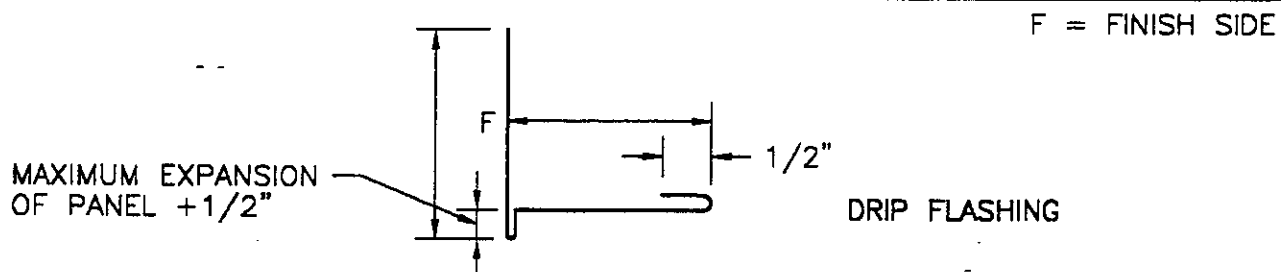
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CT-10



\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

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DATE: 11-01-97

EAVE DETAIL - CONVEX

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CT-11

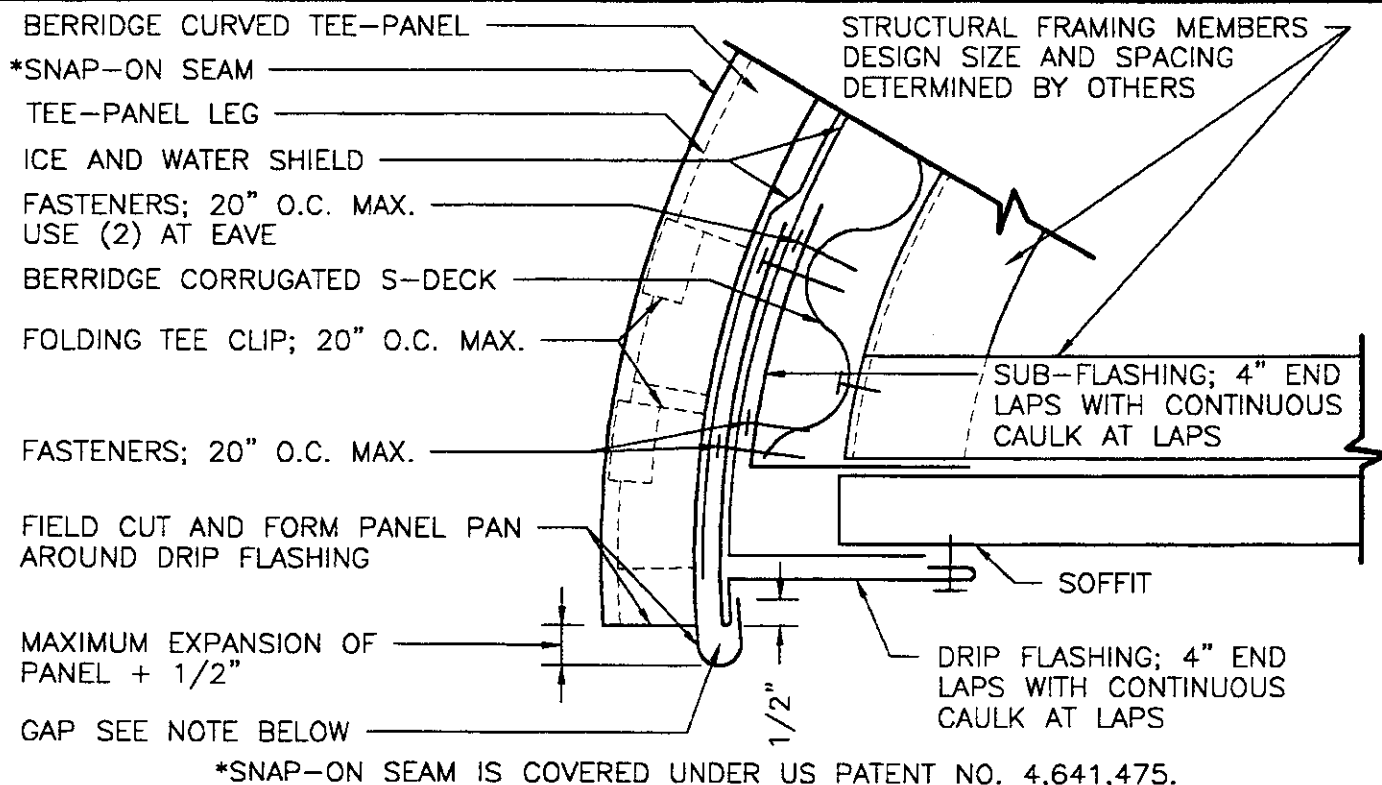
**CURVED TEE-PANEL**

**BERRIDGE**

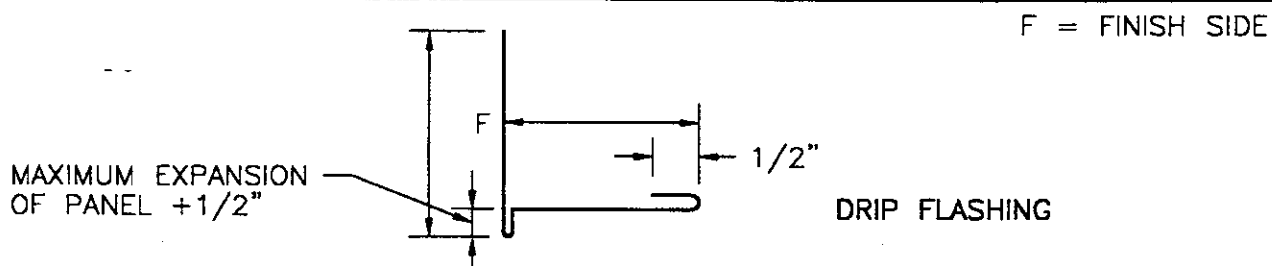


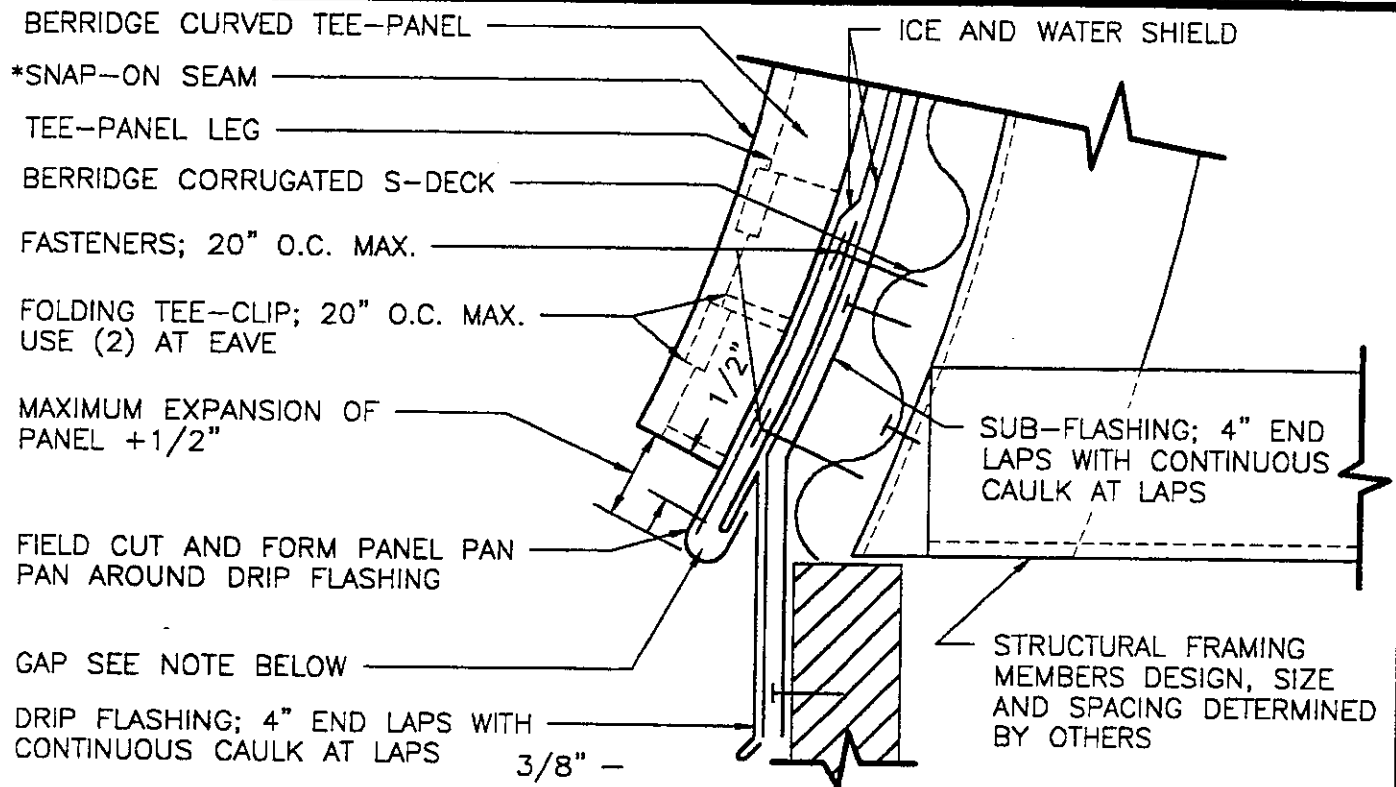
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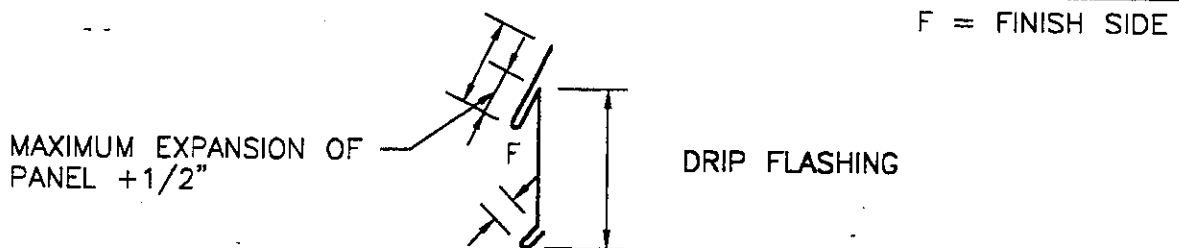
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EAVE DETAIL — CONCAVE

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CT-13

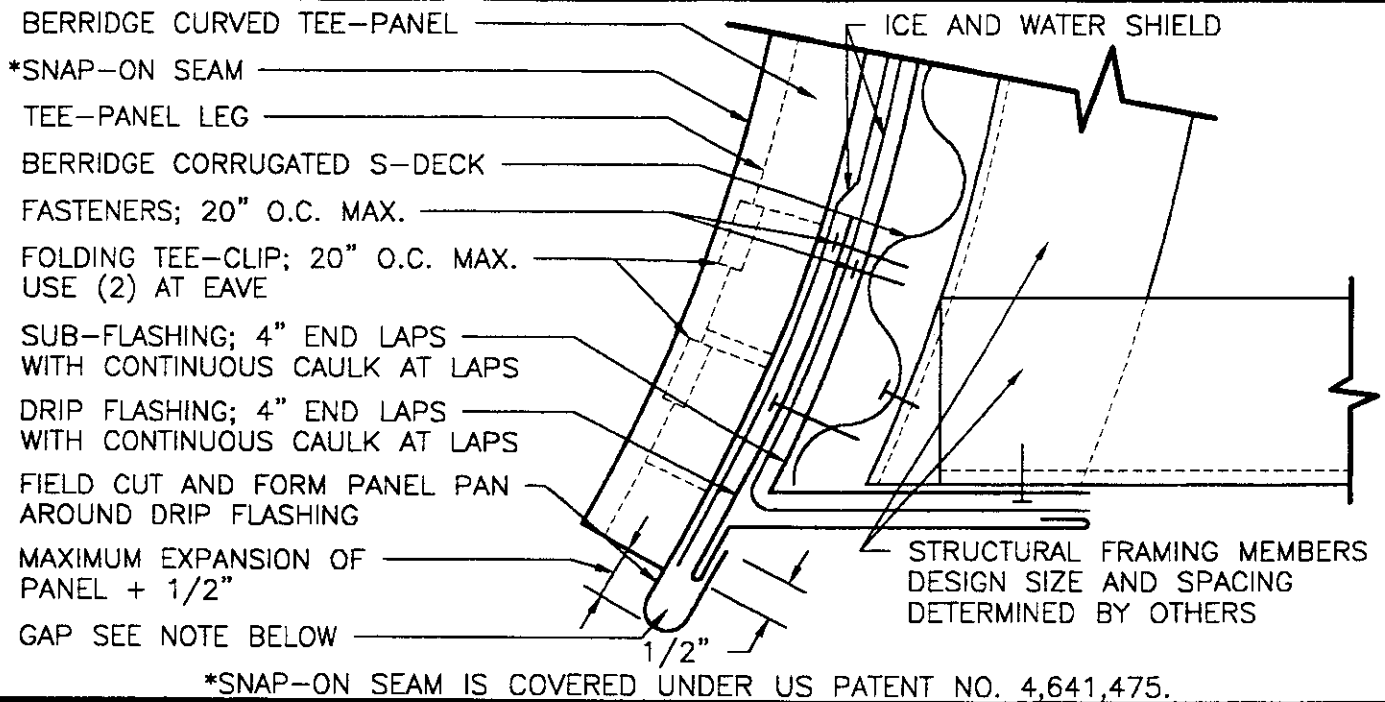
**CURVED TEE-PANEL**

**BERRIDGE**

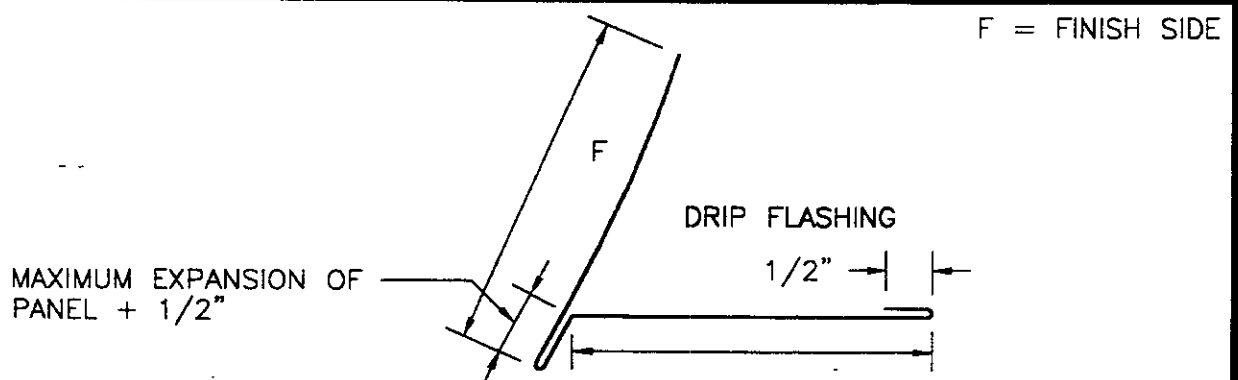


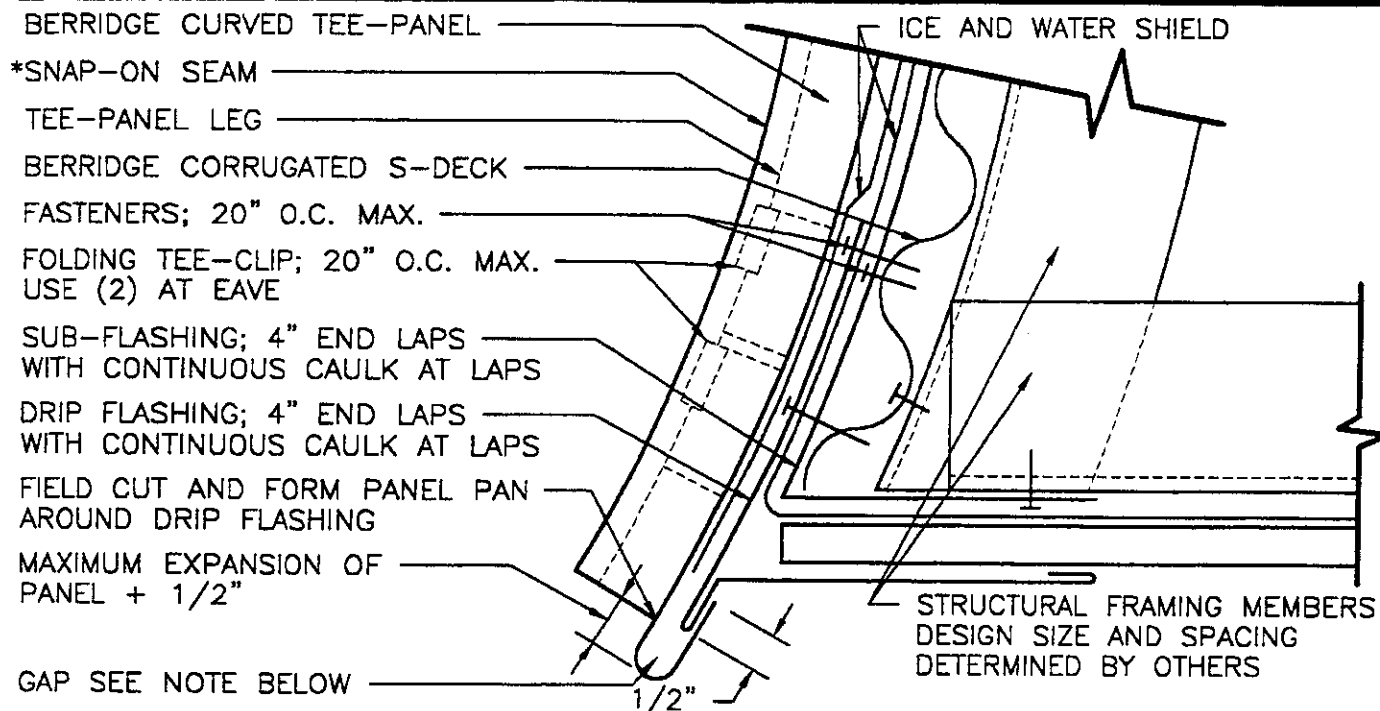
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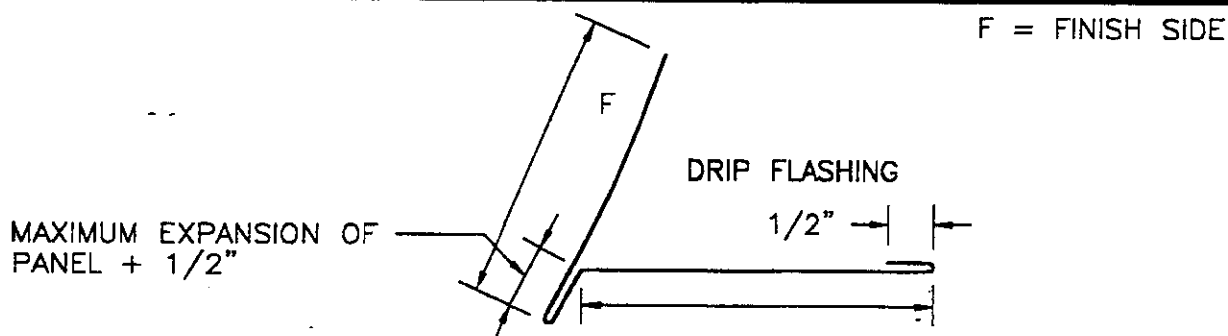
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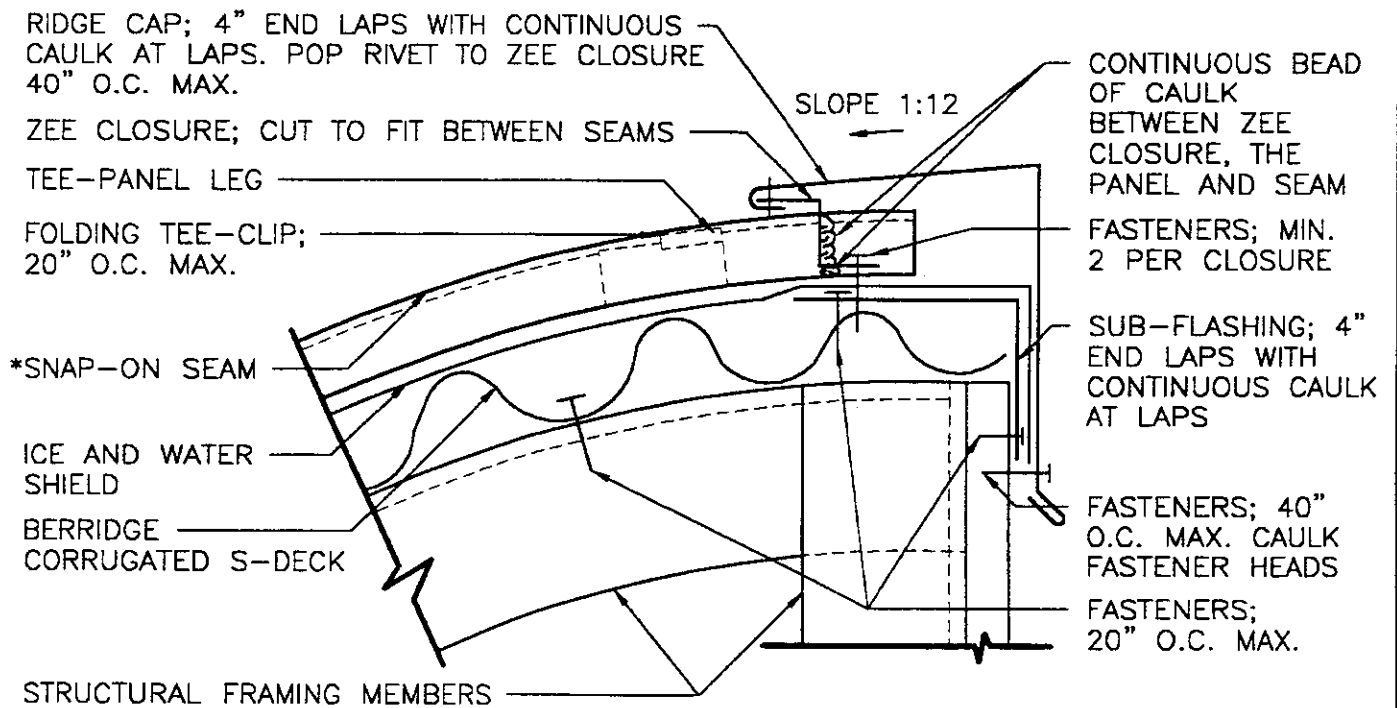
**CURVED TEE-PANEL**



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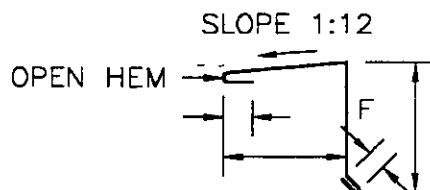




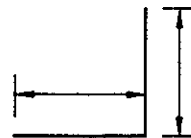
\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

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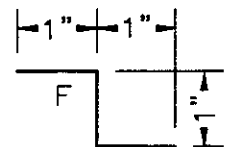
F = FINISH SIDE



RIDGE CAP



SUB-FLASHING



ZEE CLOSURE



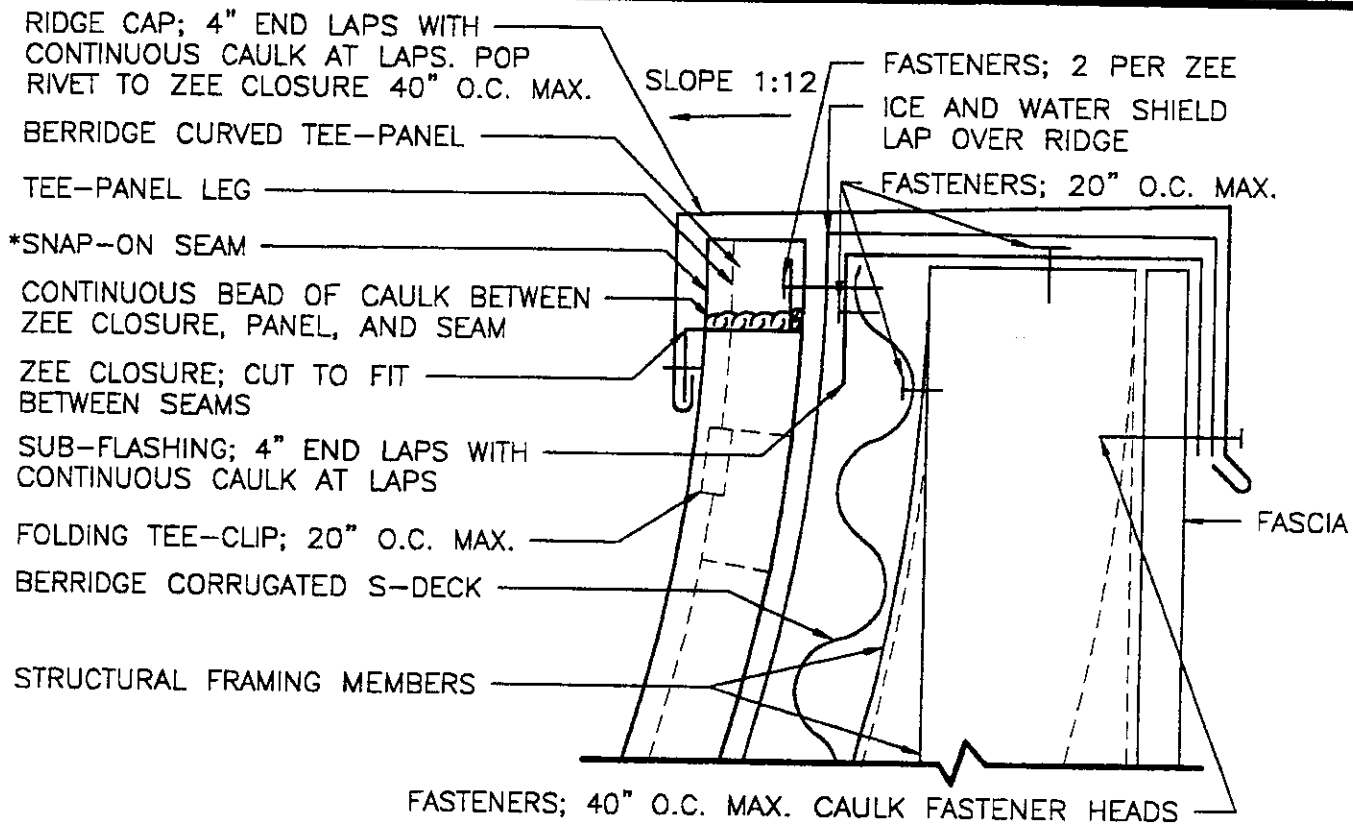
RIDGE CAP DETAIL - CONVEX

DATE: 11-01-97

**CURVED TEE-PANEL**

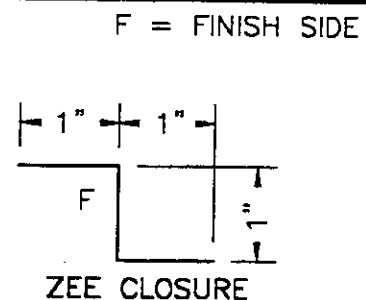
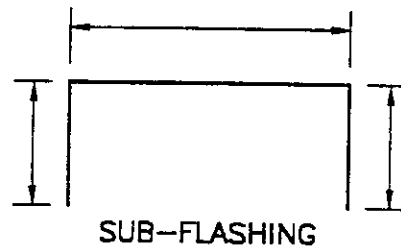
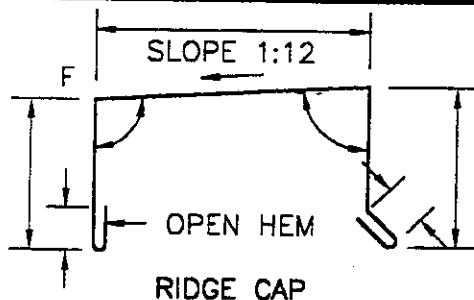
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RIDGE CAP DETAIL - CONCAVE

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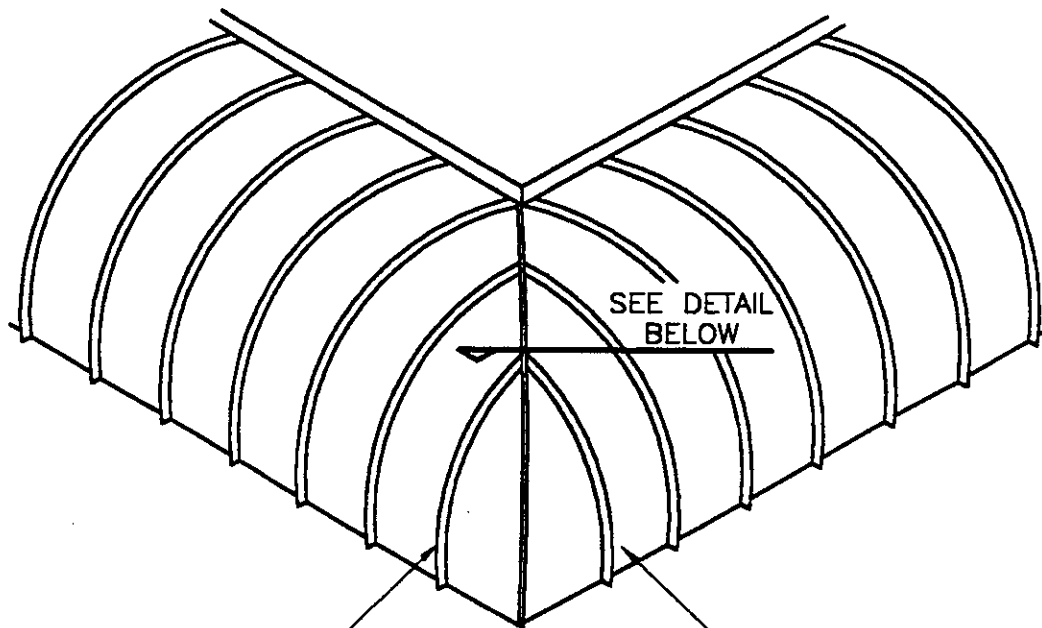
**CURVED TEE-PANEL**

**BERRIDGE**



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Company**

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SEE DETAIL  
BELOW

\*SNAP-ON SEAM

BERRIDGE CURVED TEE-PANEL

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

\*SNAP-ON SEAM

CONTINUOUS CAULK;  
WHERE SEAMS MEET

FOLDING TEE-CLIP;  
20" O.C. MAX.  
FIELD BEND VERTICAL LEG

ICE AND WATER SHIELD

SUB-FLASHING  
FIELD CUT

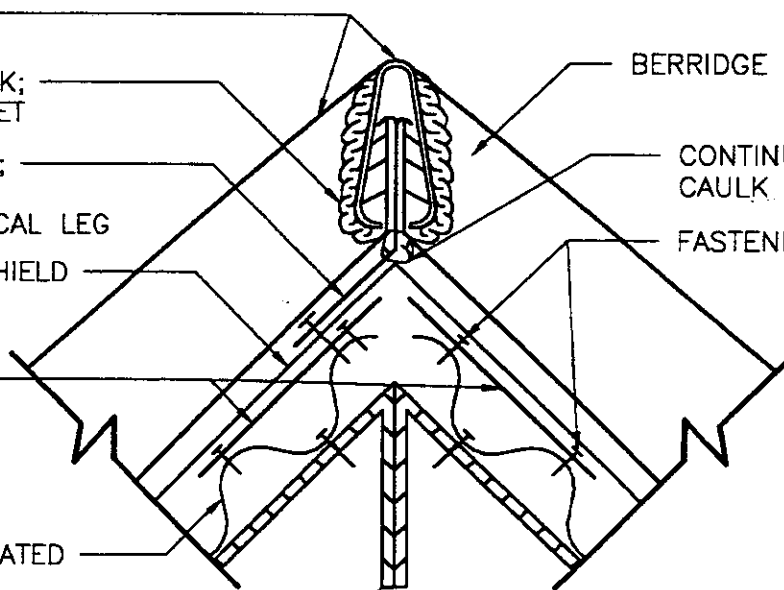
BERRIDGE CORRUGATED  
S-DECK

STRUCTURAL FRAMING MEMBERS

BERRIDGE CURVED TEE-PANEL

CONTINUOUS BEAD OF  
CAULK WHERE LEGS MEET

FASTENERS; 20" O.C. MAX.



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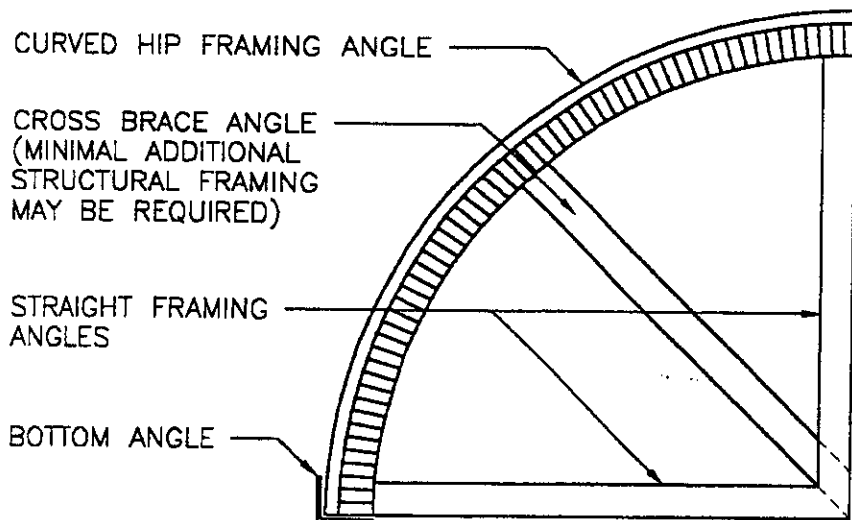
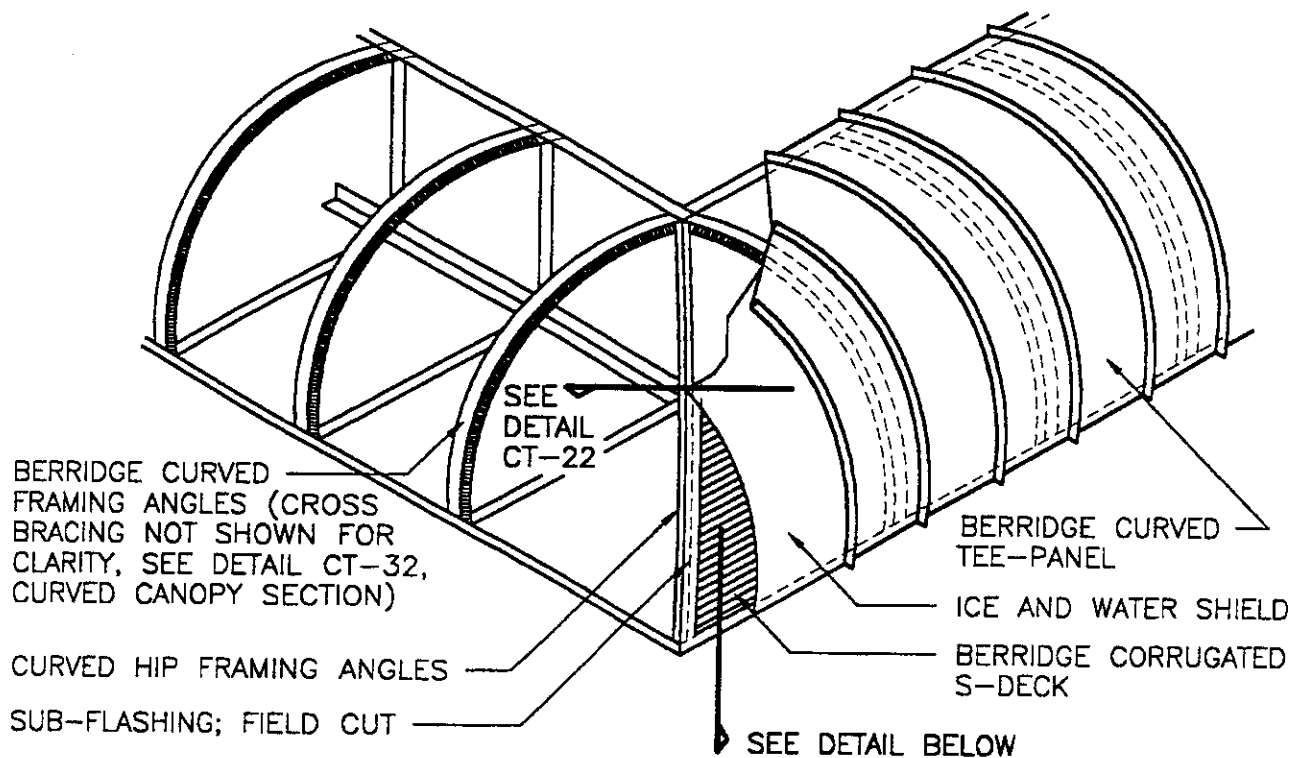
HIP ISOMETRIC  
AND SECTION - CONVEX

**CURVED TEE-PANEL**

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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.

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HIP ISOMETRIC  
AND SECTION - CONVEX

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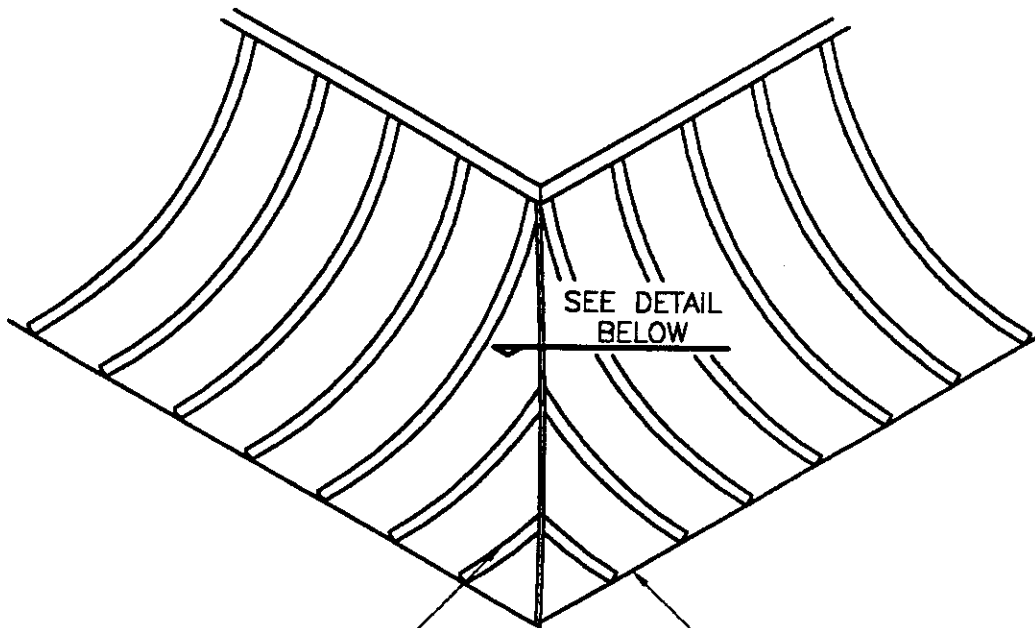
**CURVED TEE-PANEL**

**BERRIDGE**



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Manufacturing  
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*Roofs of Distinction*



\*SNAP-ON SEAM

BERRIDGE CURVED TEE-PANEL

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

\*SNAP-ON SEAM

CONTINUOUS BEAD OF CAULK  
WHERE SEAMS MEET

FOLDING TEE-CLIP;  
20" O.C. MAX.

FIELD BEND VERTICAL LEG

ICE AND WATER SHIELD

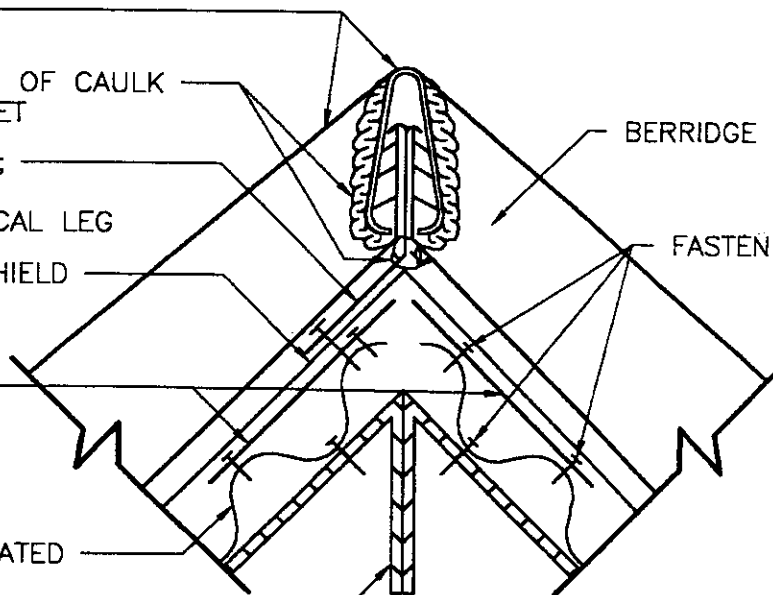
SUB-FLASHING  
FIELD CUT

BERRIDGE CORRUGATED  
S-DECK

STRUCTURAL FRAMING MEMBERS

BERRIDGE CURVED TEE-PANEL

FASTENERS; 20" O.C. MAX.



BERRIDGE



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HIP ISOMETRIC  
AND SECTION - CONCAVE

**CURVED TEE-PANEL**

DATE: 11-01-97

PAGE\FILE

CT-24

SEE DETAIL  
CT-26

SEE DETAILS  
CT-24 AND  
CT-26

BERRIDGE CURVED  
FRAMING ANGLES (CROSS  
BRACING NOT SHOWN FOR  
CLARITY. SEE DETAIL BELOW)

CURVED HIP FRAMING ANGLE

SUB-FLASHING; FIELD CUT

BERRIDGE CURVED  
TEE-PANEL

ICE AND WATER SHIELD

BERRIDGE CORRUGATED S-DECK

SEE DETAIL BELOW

CURVED HIP FRAMING ANGLE

CROSS BRACE ANGLE  
(MINIMAL ADDITIONAL STRUCTURAL  
FRAMING MAY BE REQUIRED)

STRAIGHT FRAMING ANGLES

BOTTOM ANGLE

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.

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CT-25

HIP ISOMETRIC  
AND SECTION - CONCAVE

**CURVED TEE-PANEL**

BERRIDGE

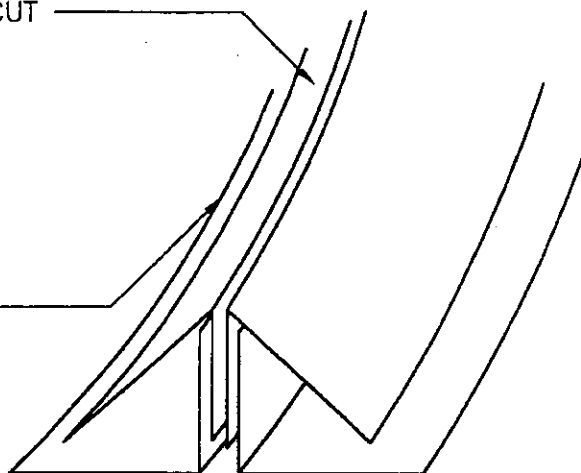


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CURVED HIP ANGLE; BACK CUT  
VERTICAL LEG, FASTEN TO  
CURVED FRAMING ANGLE

CURVED FRAMING ANGLE

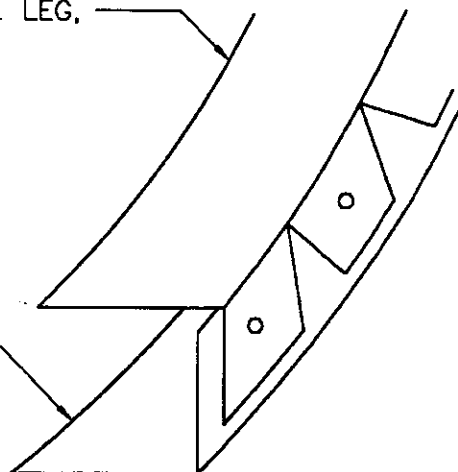


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OTHERS.

ANGLE FRAMING; BACK CUT VERTICAL LEG,  
FASTEN TO CURVED FRAMING ANGLE

CURVED FRAMING ANGLE



BERRIDGE 16 GAUGE 1 1/2" x 2" CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN.  
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OTHERS.



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FRAMING DETAILS – CONCAVE

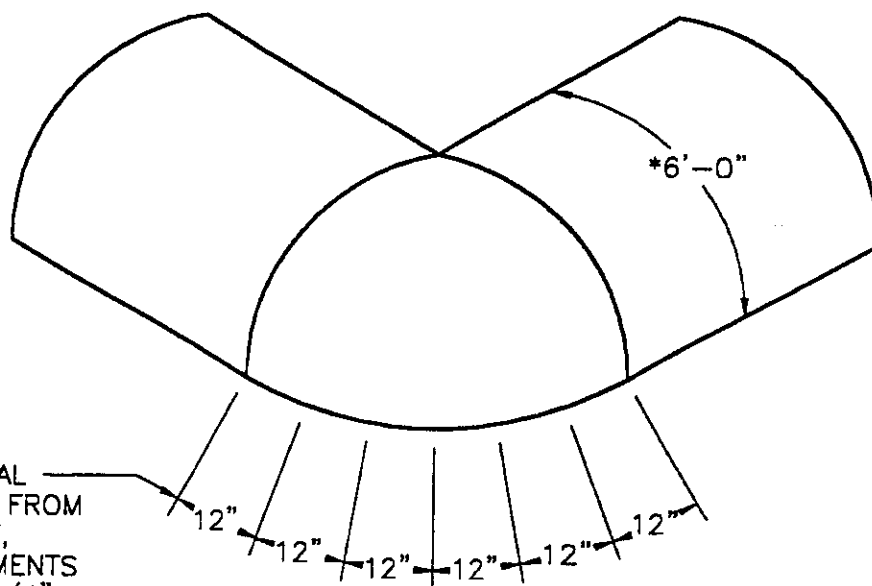
**CURVED TEE-PANEL**

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**CT-26**

# BERRIDGE COMPOUND CURVED HIP

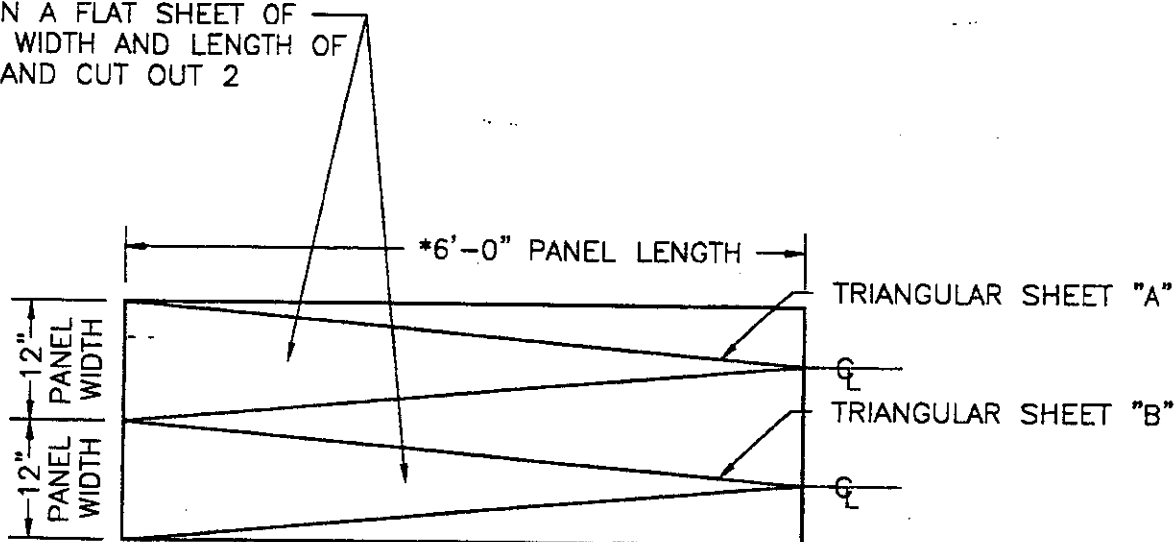


TAKE HORIZONTAL MEASUREMENTS FROM POINT TO POINT, KEEP MEASUREMENTS CLOSE TO 12 3/4"

\*DIMENSION IS UTILIZED FOR ILLUSTRATION PURPOSES, USE EXACT FIELD LENGTH OF PANEL REQUIRED.

1. THE TEMPLATE FOR THE COMPOUND CURVED TEE-PANEL IS DETERMINED BY FIRST TAKING HORIZONTAL MEASUREMENTS FROM POINT TO POINT ALONG EAVE SO THAT EACH PANEL IS THE SAME MEASUREMENT AND CLOSE TO THE STANDARD 12 3/4" PANEL SPACING.
2. LAY OUT ON A FLAT SHEET OF METAL THE WIDTH AND LENGTH OF 2 PANELS, THEN CUT OUT 2 TRIANGLES FROM THIS SHEET, AS SHOWN BELOW.

LAY OUT ON A FLAT SHEET OF METAL THE WIDTH AND LENGTH OF 2 PANELS AND CUT OUT 2 TRIANGLES



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COMPOUND CURVED HIP

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CT-27

**CURVED TEE-PANEL**

**BERRIDGE**

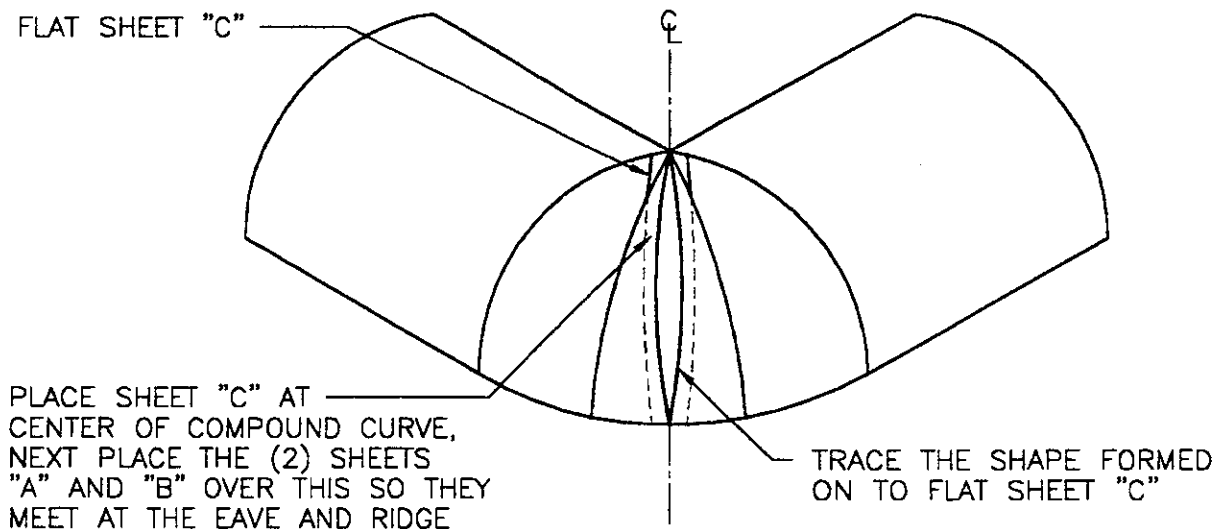


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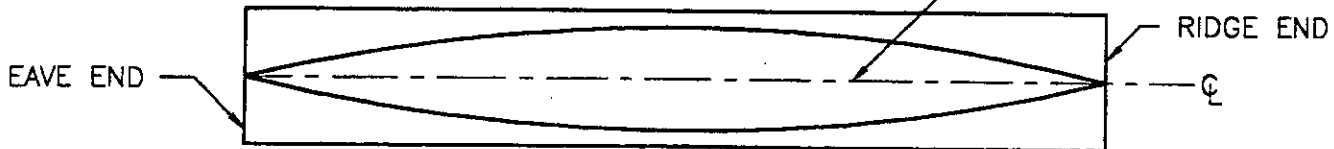


# BERRIDGE COMPOUND CURVED HIP

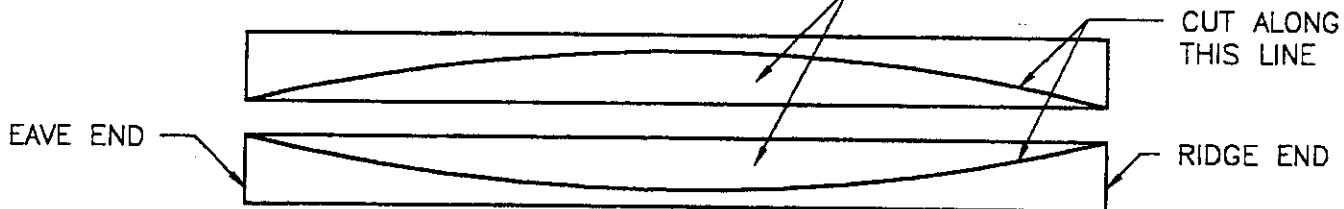


1. AFTER THE BOW SHAPED TEMPLATE IS MADE, THE 90° LEGS NEED TO BE ROLLED UPWARD (ONE LEG AT A TIME) WITH THE SPECIAL SL-1 BERRIDGE ROLL FORMER.
2. ONCE THE LEGS ARE FORMED THE PANEL MUST BE CURVED BY HAND OVER THE FRAME WORK.
3. SEE DETAIL CT-29 FOR A DETAILED EXPLANATION ON MAKING THE BOW SHAPED TEMPLATE.

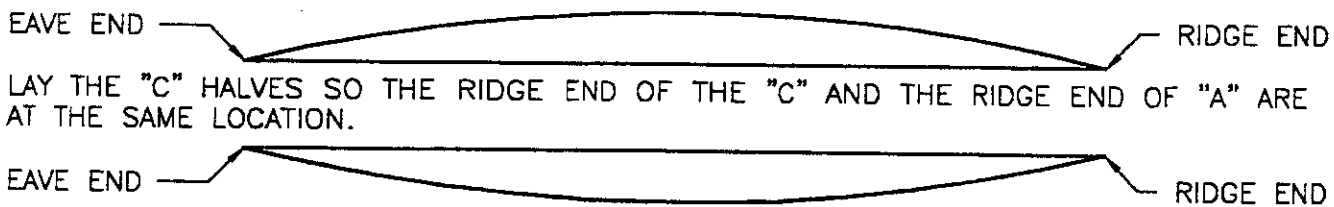
STEP #1 CUT ALONG THE CENTER LINE OF THE SHAPE WHICH WAS TRACED ON TO FLAT SHEET "C"



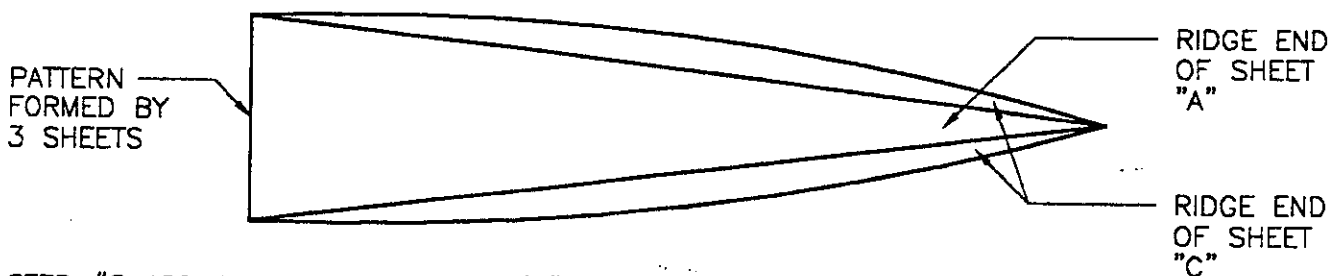
STEP #2 CUT OUT THE TWO HALVES ON SHEET "C"



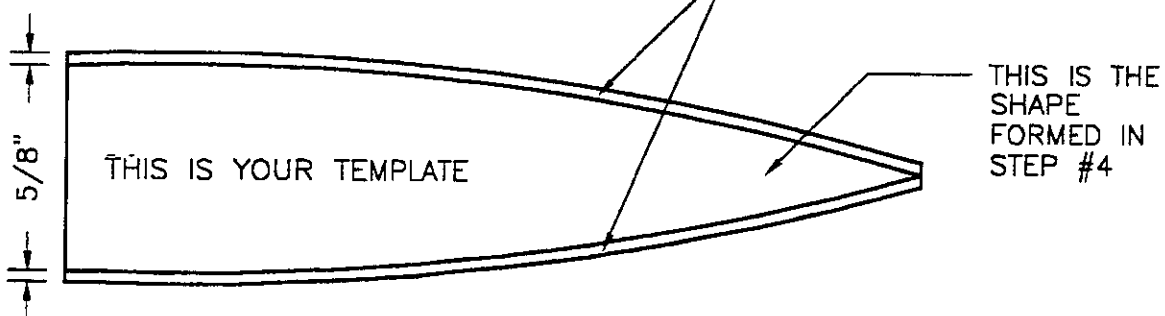
STEP #3 ONCE YOU HAVE THE TWO HALVES FROM SHEET "C" LAY THEM OUT WITH ONE OF THE TRIANGULAR SHEETS "A" OR "B"



STEP #4 TRIANGULAR SHEET "A" SHOWN WITH THE TWO HALVES OF SHEET "C" IN PLACE.



STEP #5 ADD TO THE PATTERN 5/8" ON BOTH SIDES FOR PANEL LEGS



NOTE: MORE THAN ONE TEMPLATE MAY BE REQUIRED DEPENDING ON ROOF.

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COMPOUND CURVED HIP  
TEMPLATE LAYOUT

PAGE\FILE

CT-29

**CURVED TEE-PANEL**

**BERRIDGE**



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PURLIN FASTENER ANGLES

BERRIDGE CORRUGATED  
S-DECK

BERRIDGE CURVED  
FRAMING ANGLES  
(CROSS BRACING NOT  
SHOWN FOR CLARITY. SEE  
DETAIL CT-32 CURVED  
CANOPY SECTION.)

PURLIN  
FASTENER  
SEE BELOW

BOTTOM PURLIN  
SEE BELOW

CORNER FRAMING ANGLE

BOTTOM PURLIN ANGLE

NOTE: THIS ANGLE STEPS OUT 5/8"

BERRIDGE CORRUGATED  
S-DECK

FASTENERS;  
20" O.C. MAX.

PURLIN  
FASTENER  
ANGLE

NOTE: THIS  
ANGLE STEPS  
OUT 5/8"

5/8"

CORNER FRAMING  
ANGLE

PURLIN FASTENER

PURLIN FASTENER  
ANGLE

5/8"

CORNER FRAMING  
ANGLE

BOTTOM PURLIN  
ANGLE

BOTTOM PURLIN



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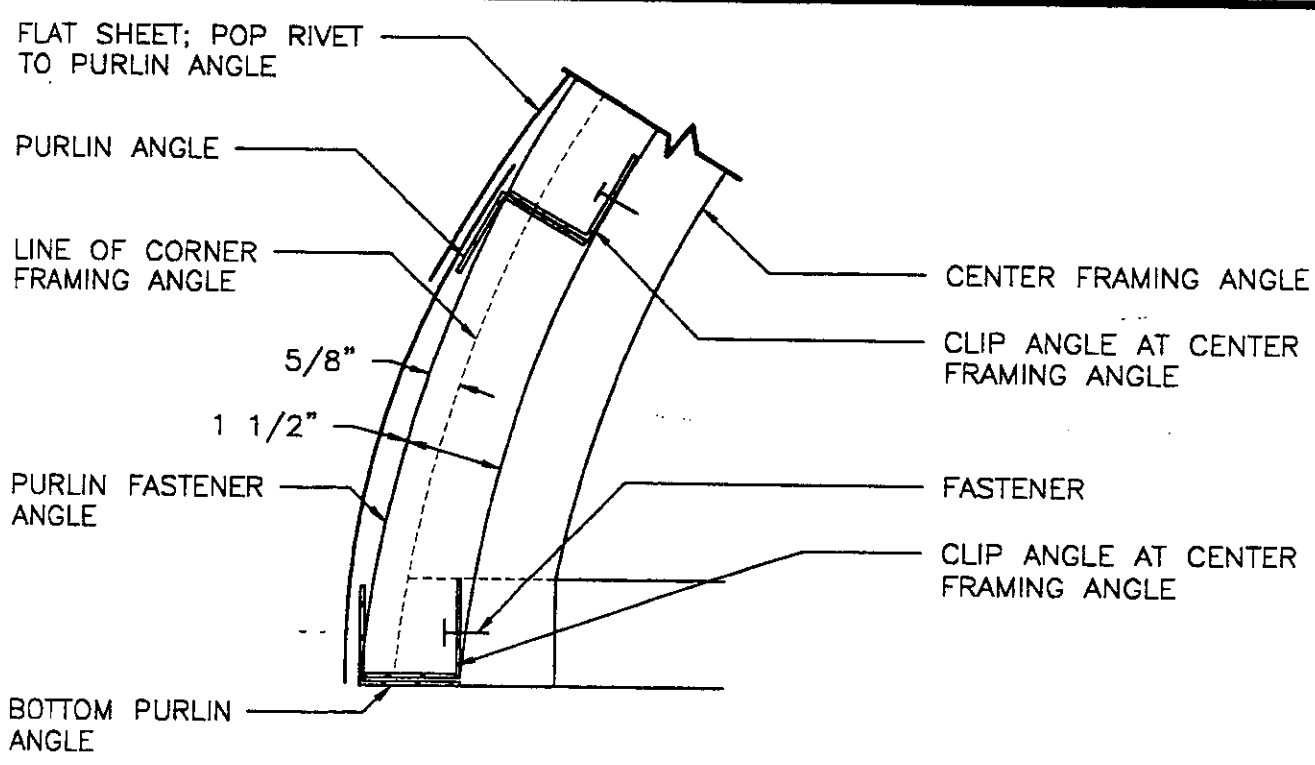
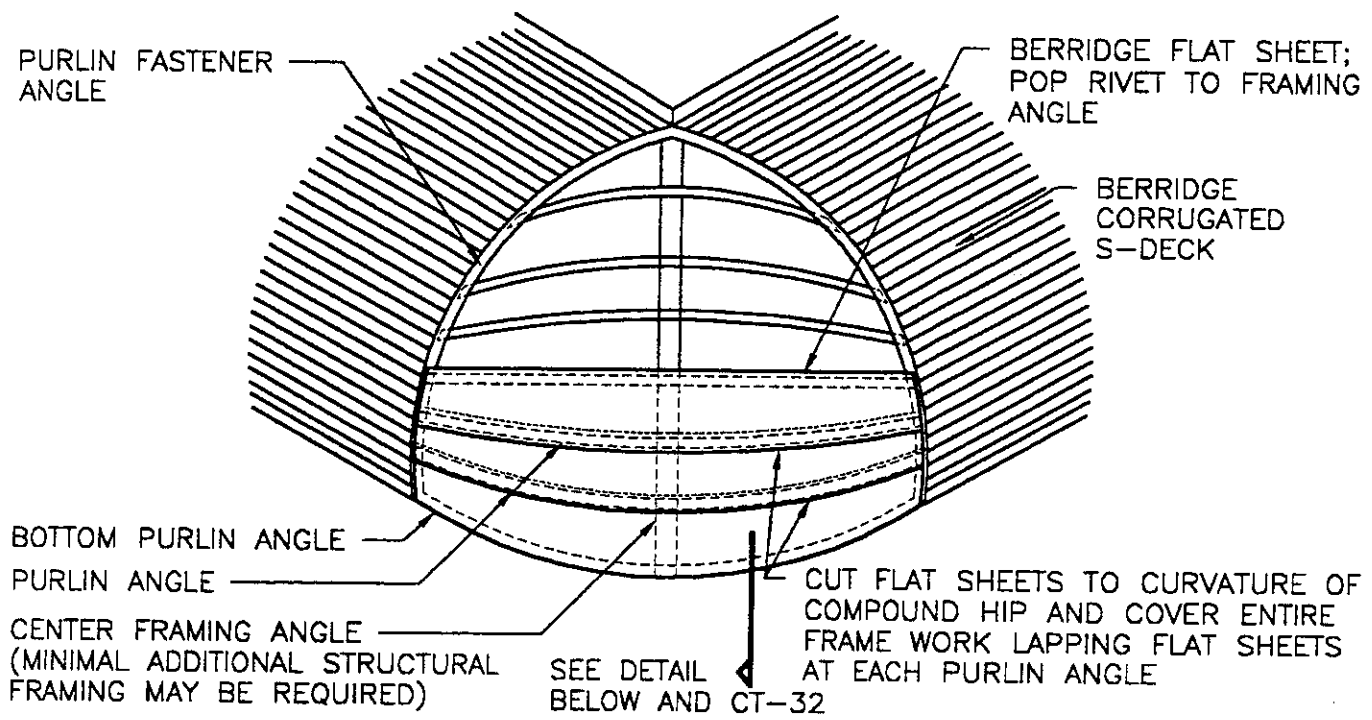
COMPOUND CURVE FRAMING  
ISOMETRIC AND DETAILS

**CURVED TEE-PANEL**

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# COMPOUND CURVE FRAMING ISOMETRIC AND DETAIL

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## CURVED TEE-PANEL



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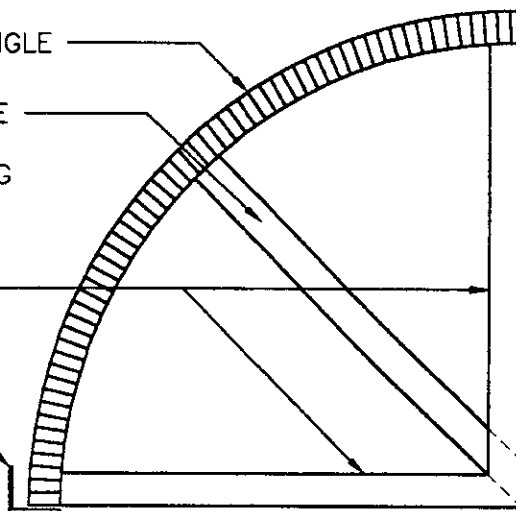
## CURVED CANOPY SECTION

CURVED FRAMING ANGLE

CROSS BRACE ANGLE  
(MINIMAL ADDITIONAL  
STRUCTURAL FRAMING  
MAY BE REQUIRED)

STRAIGHT FRAMING  
ANGLE

BOTTOM ANGLE



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.

## COMPOUND CURVED SECTION

SECTION AT CENTER FRAMING ANGLE

PURLIN ANGLE

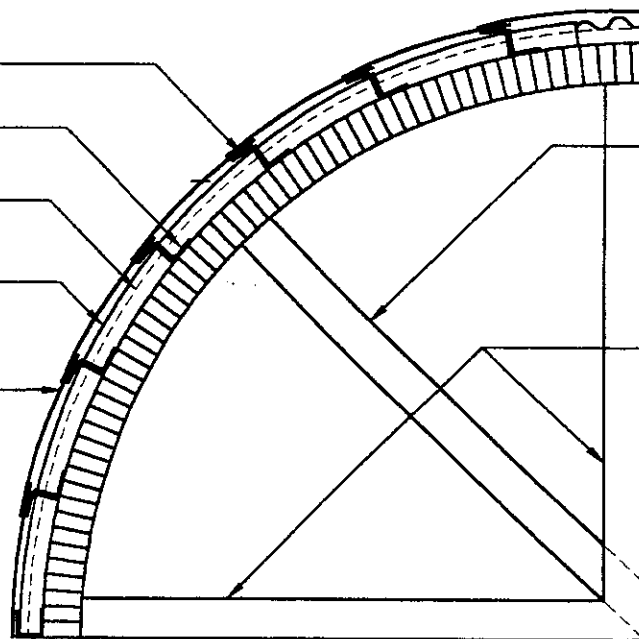
CLIP ANGLE

LINE OF CORNER  
FRAMING ANGLE

PURLIN FASTENERS  
ANGLE

CUT FLAT SHEET  
TO CURVATURE OF  
COMPOUND HIP  
AND COVER ENTIRE  
FRAME, LAP FLAT  
SHEETS AT EACH  
PURLIN ANGLE

BOTTOM PURLIN ANGLE



CROSS BRACE ANGLE  
(MINIMAL ADDITIONAL  
STRUCTURAL FRAMING  
MAY BE REQUIRED)

STRAIGHT FRAMING  
ANGLES



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SECTION, CURVED CANOPY  
AND COMPOUND CURVE

**CURVED TEE-PANEL**

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**CT-32**

CAP FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. STAGGER FASTENERS 20" O.C. AND CAULK FASTENER HEADS

FASTENERS; 20" O.C. MAX.

COUNTERFLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ZEE CLOSURE 40" O.C.

ZEE CLOSURE; CUT TO FIT BETWEEN SEAMS

FOLDING TEE-CLIP; 20" O.C. MAX.

\*SNAP-ON SEAM

BERRIDGE CURVED TEE-PANEL LEG

ICE AND WATER SHIELD

BERRIDGE CORRUGATED S-DECK

STRUCTURAL FRAMING MEMBERS

SLOPE 1:12

ICE AND WATER SHIELD

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

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE, TEE-PANEL, AND SEAM

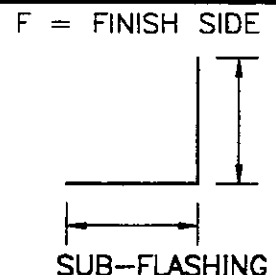
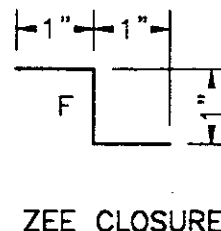
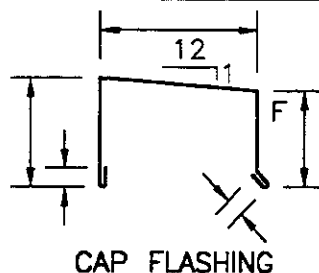
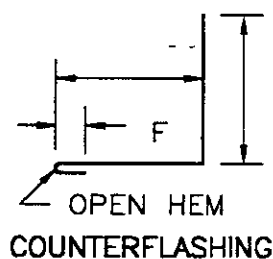
SUB-FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS

FASTENERS; 20" O.C. MAX.

FASTENERS; MIN. 2 PER CLOSURE

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS.
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).
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F = FINISH SIDE



PARAPET DETAIL - CONVEX

**CURVED TEE-PANEL**

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

CAP FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. FASTENERS STAGGERED 20" O.C. MAX. CAULK FASTENER HEADS

ICE AND WATER SHIELD

COUNTERFLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ZEE CLOSURE 40" O.C. MAX.

FASTENERS; 20" O.C. MAX.

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

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE, PANEL, AND SEAMS

ZEE CLOSURE; CUT TO FIT BETWEEN SEAMS. MIN. 2 FASTENERS PER CLOSURE

TEE-PANEL LEG

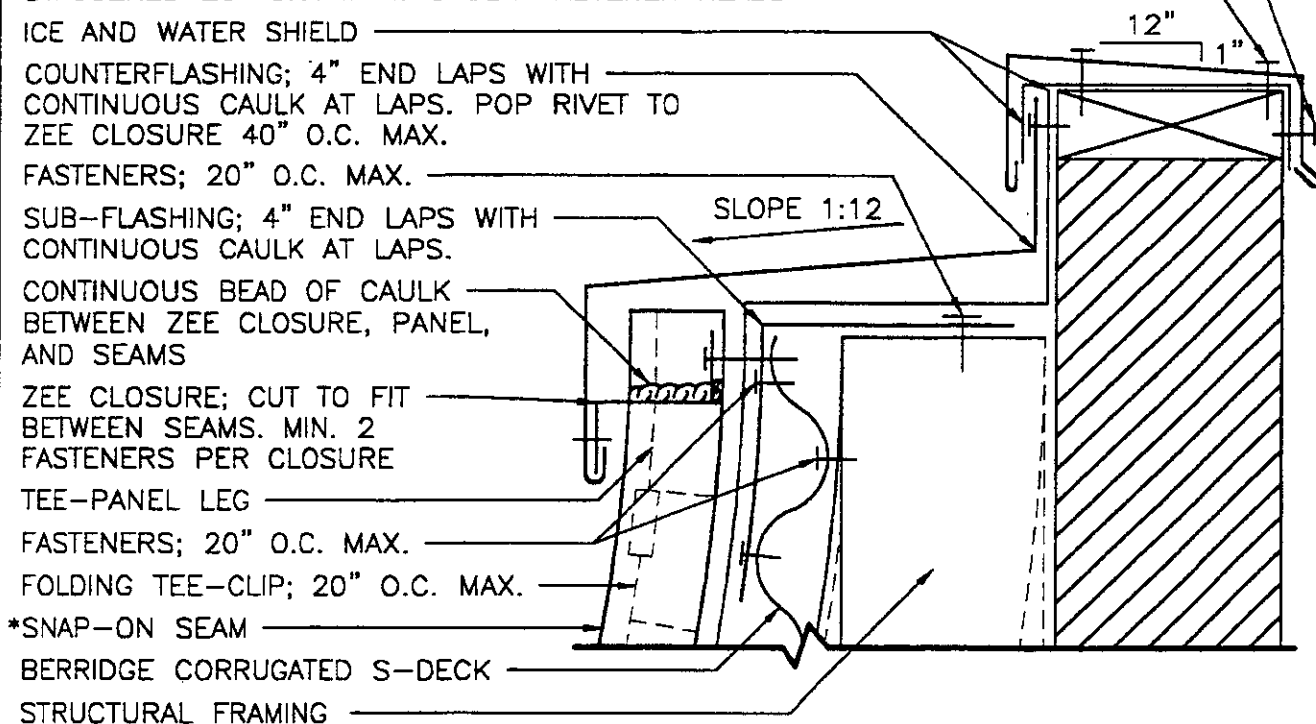
FASTENERS; 20" O.C. MAX.

FOLDING TEE-CLIP; 20" O.C. MAX.

\*SNAP-ON SEAM

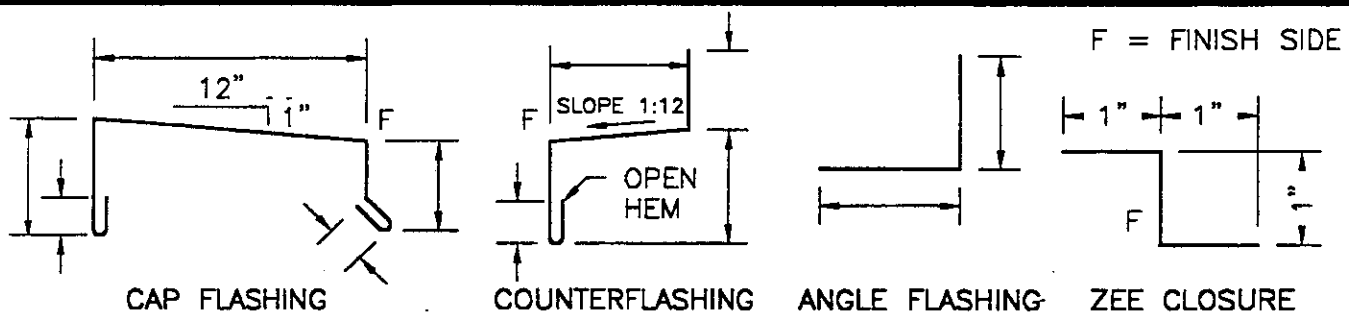
BERRIDGE CORRUGATED S-DECK

STRUCTURAL FRAMING



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PARAPET DETAIL - CONCAVE

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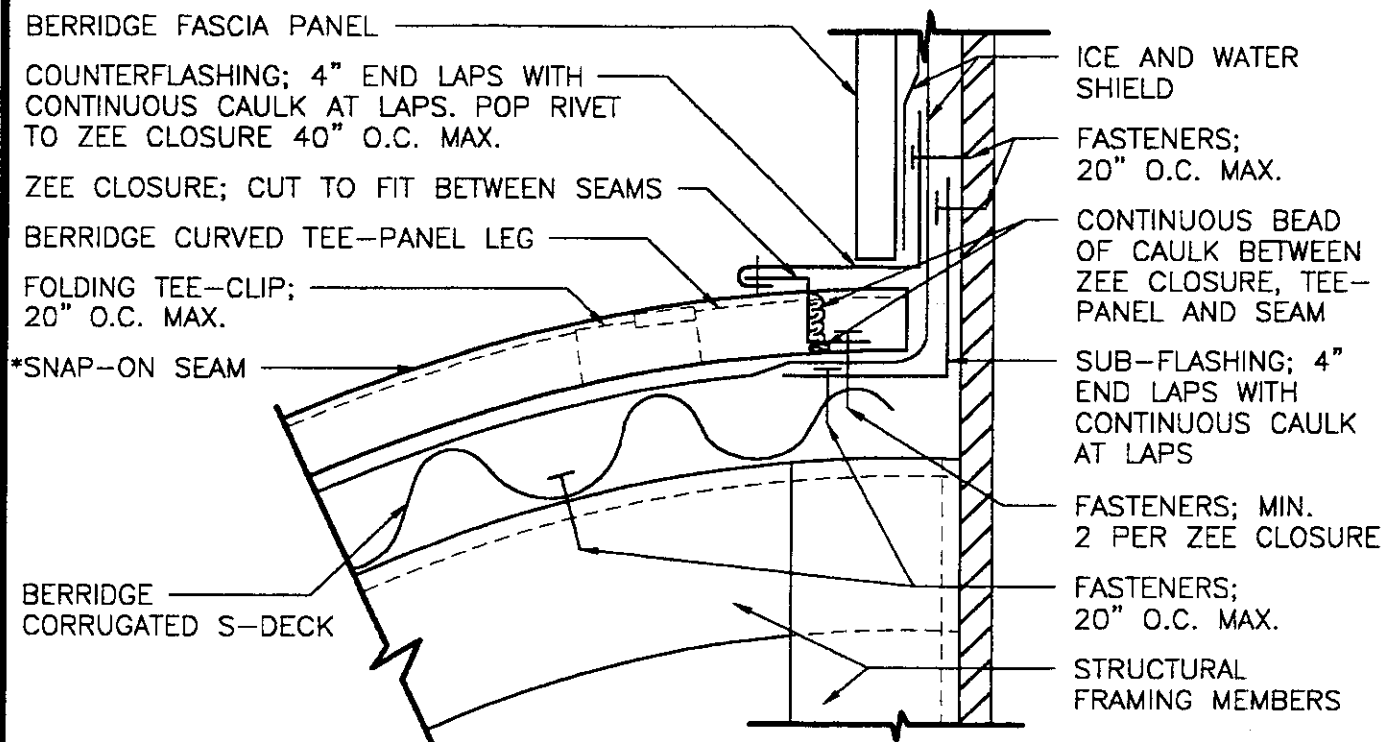
CT-41

**CURVED TEE-PANEL**



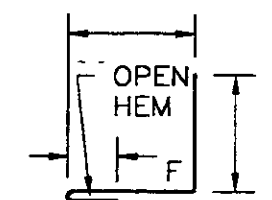
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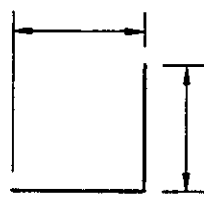


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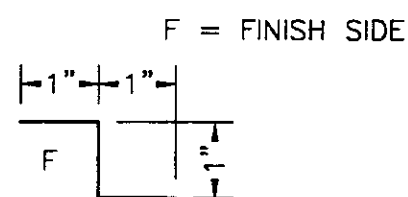
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COUNTERFLASHING



SUB-FLASHING



ZEE CLOSURE



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END WALL DETAIL — CONVEX

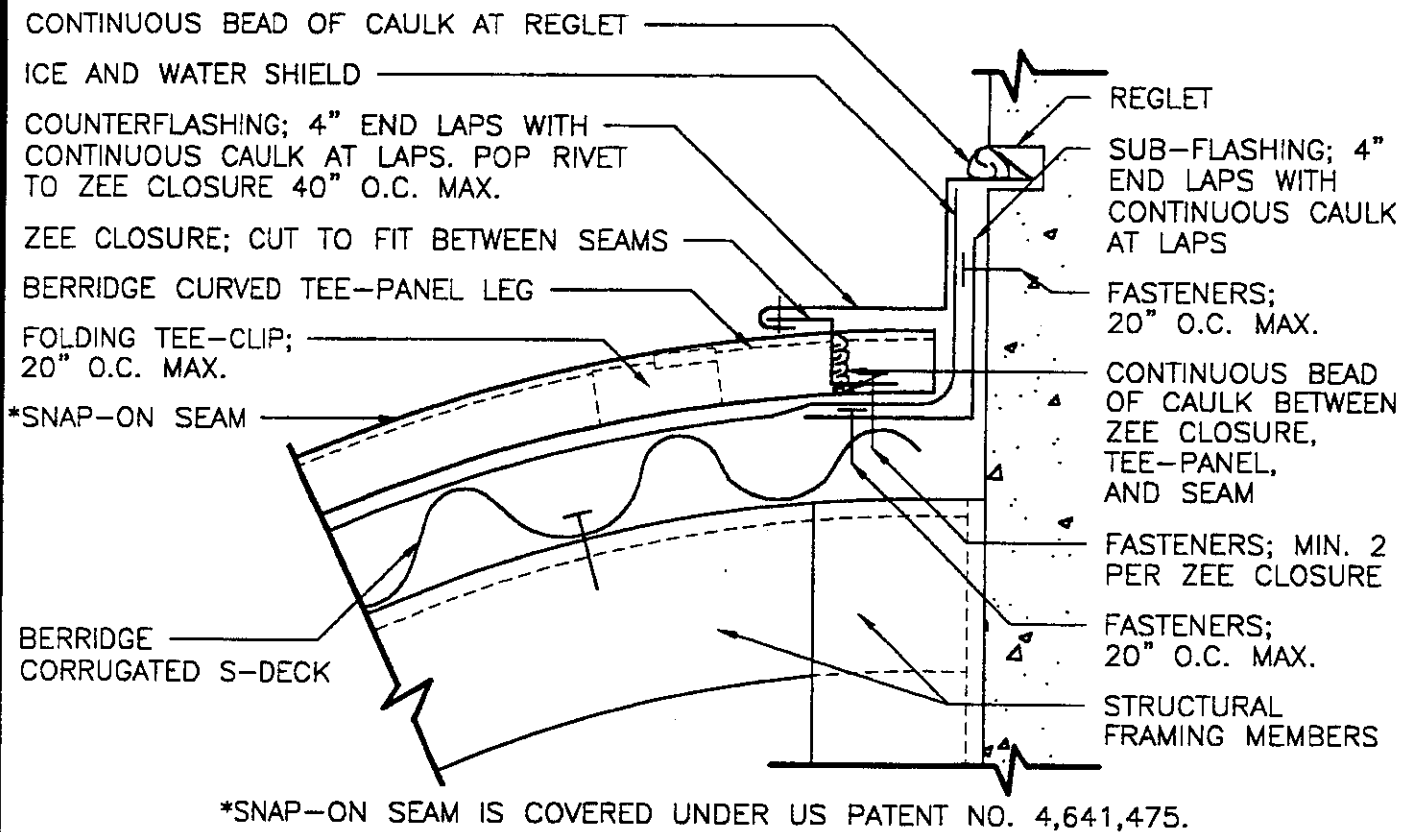
**CURVED TEE-PANEL**

DATE: 11-01-97

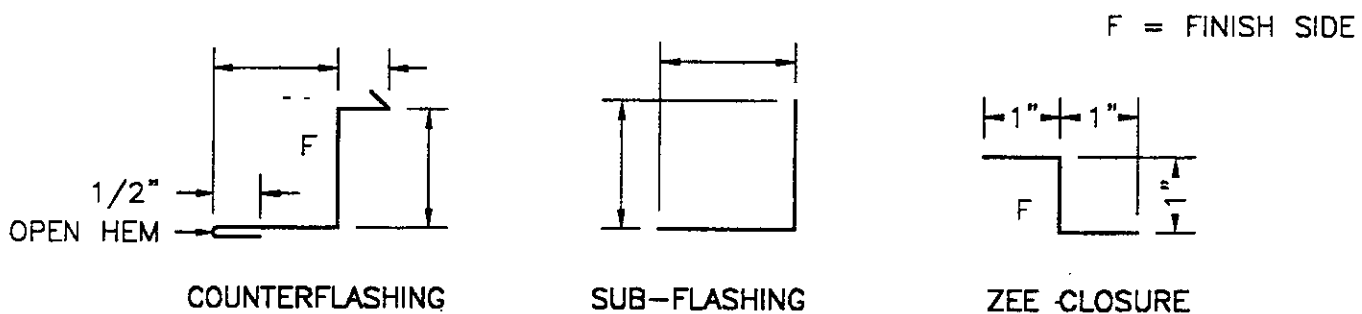
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CT-50





1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS.
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END WALL DETAIL — CONVEX

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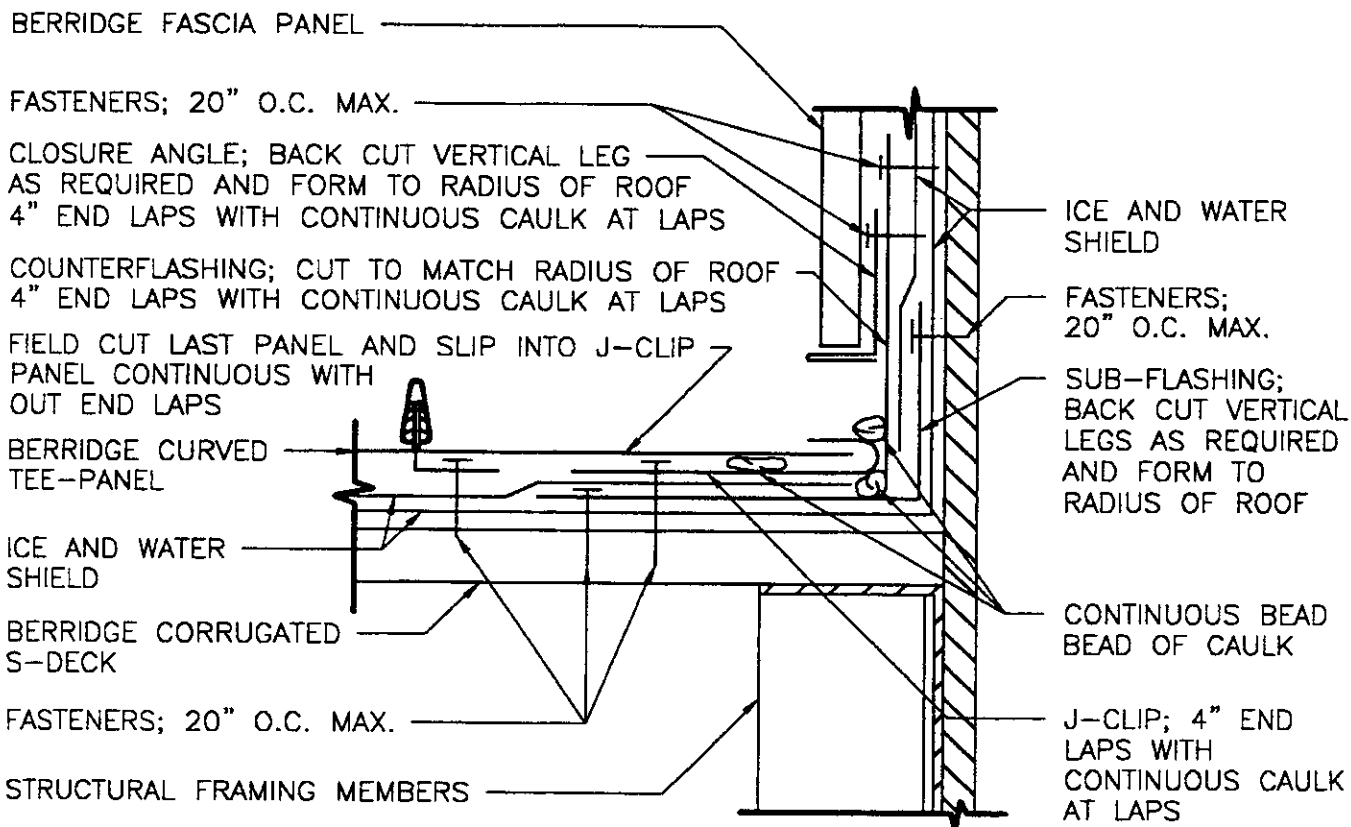
CT-51

**CURVED TEE-PANEL**

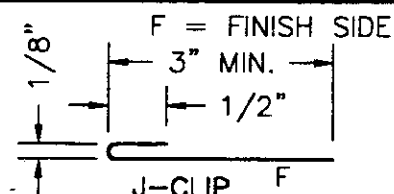
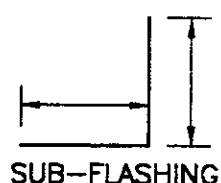
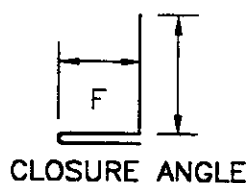
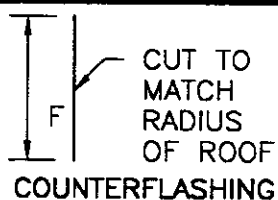


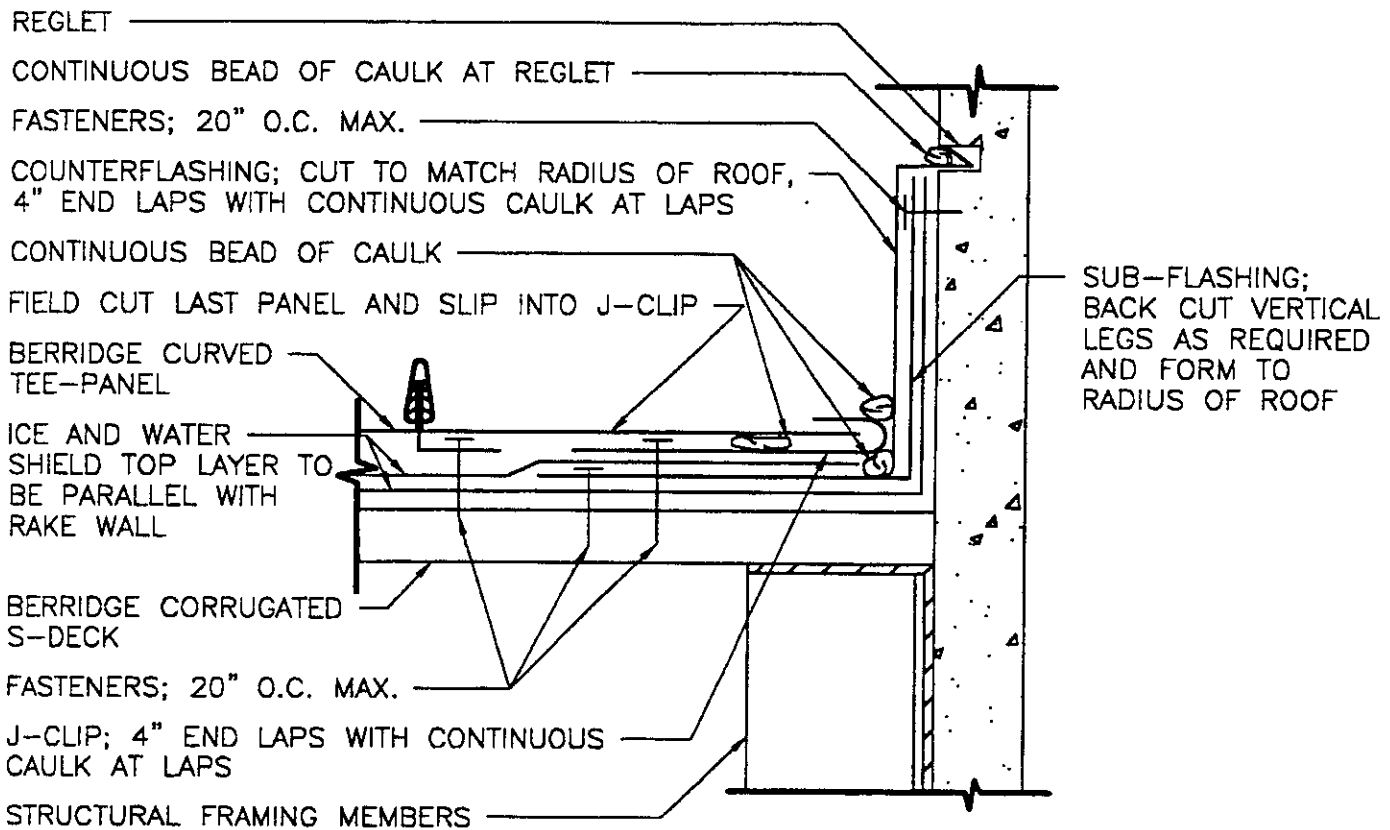
**Berridge  
Manufacturing  
Company**

*Roofs of Distinction*



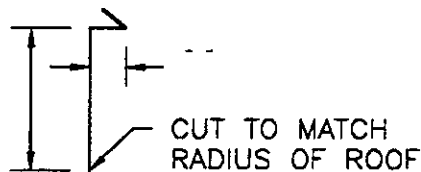
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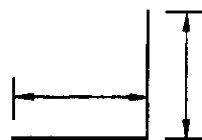


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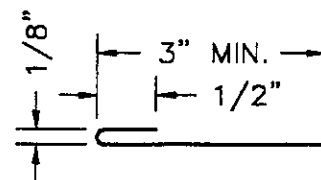
F = FINISH SIDE



COUNTERFLASHING



SUB-FLASHING



J-CLIP

DATE: 11-01-97

RAKE WALL DETAIL - CONVEX

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CL-53

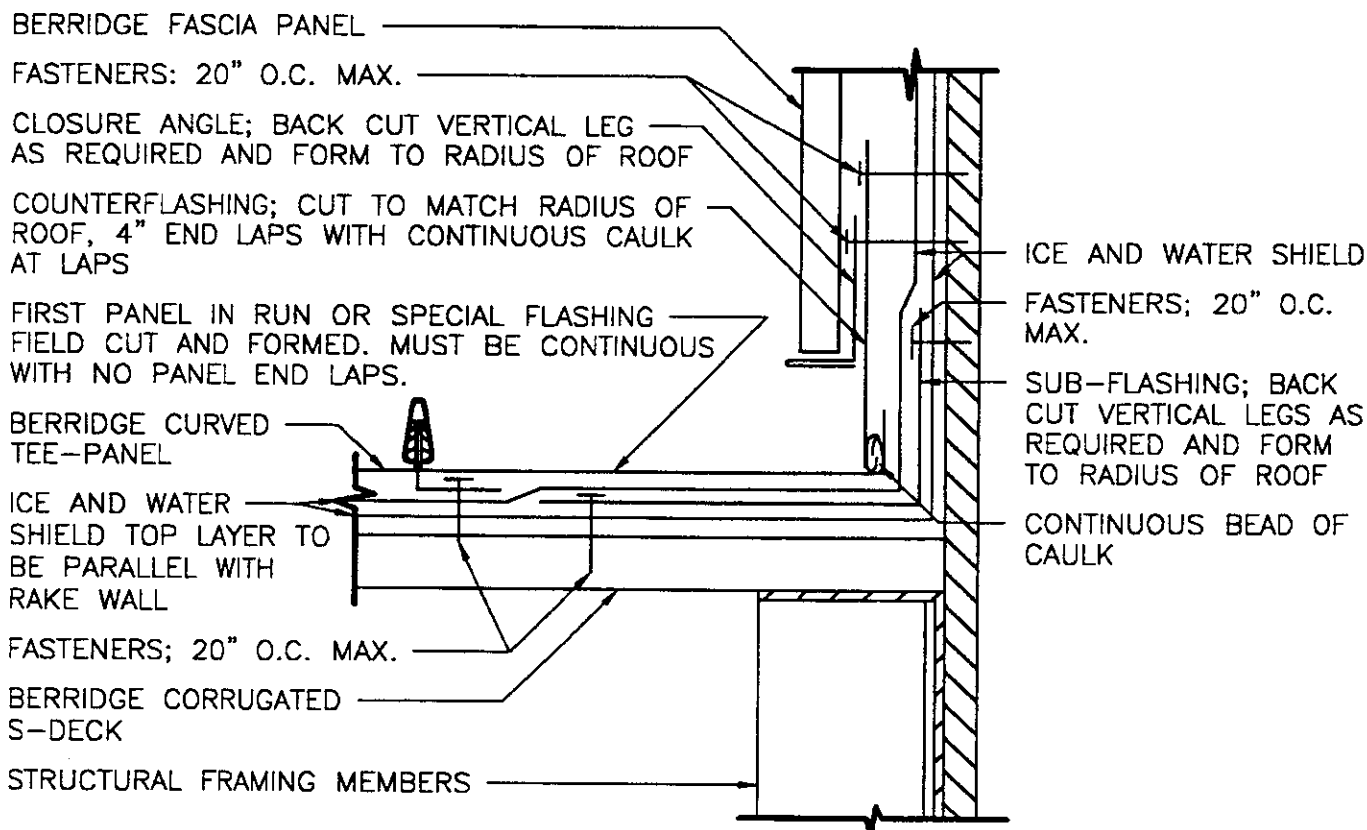
**CURVED TEE-PANEL**

**BERRIDGE**

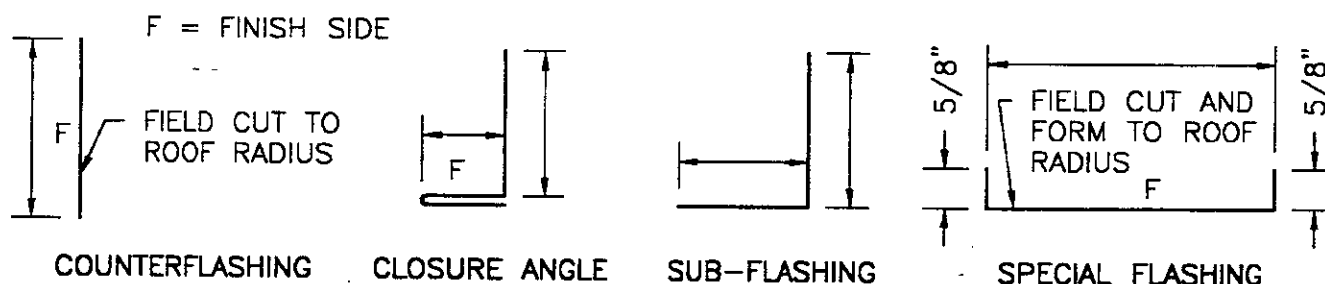


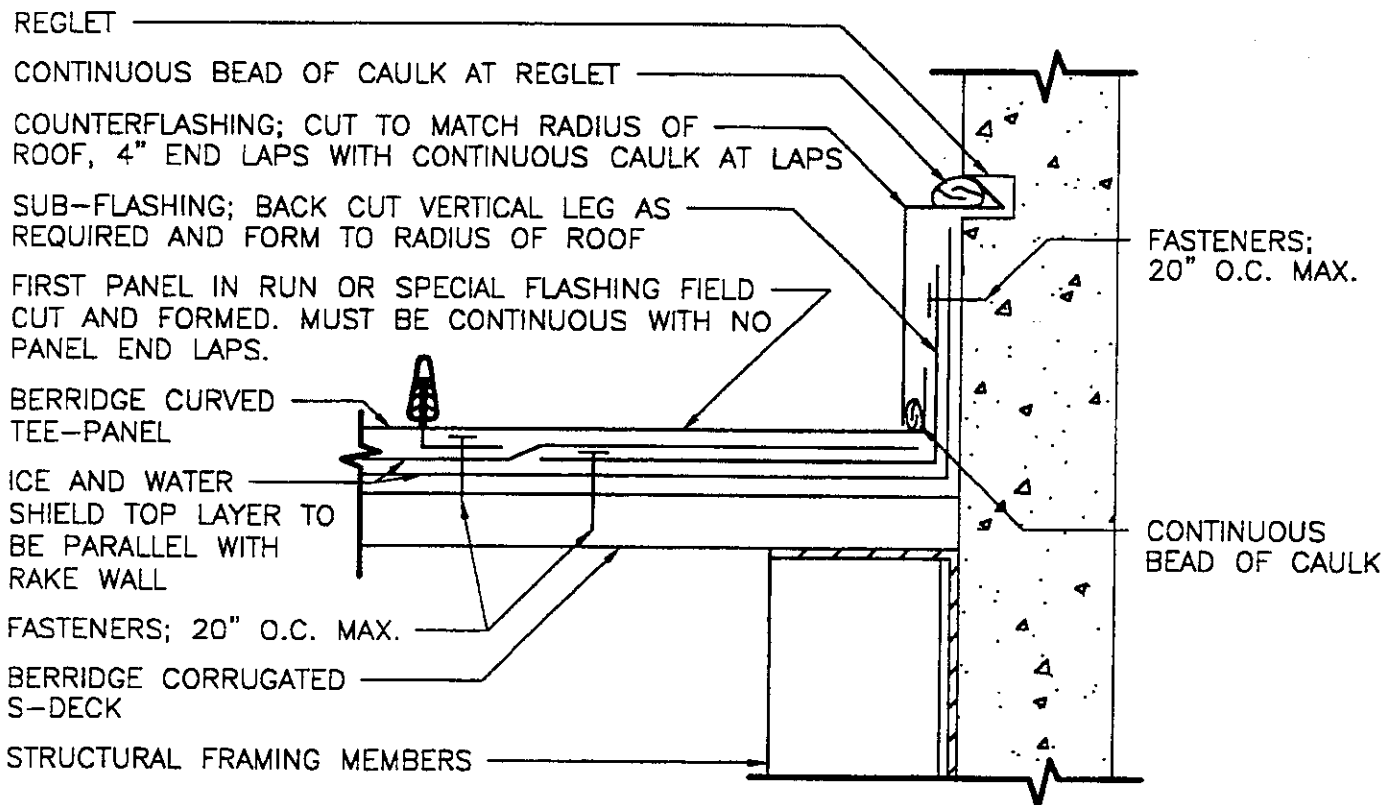
**Berridge  
Manufacturing  
Company**

*Roofs of Distinction*



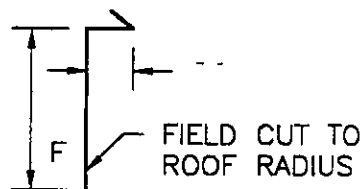
1. FIELD CUT AND FORM SPECIAL FLASHING FOR LAST PANEL.
2. SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
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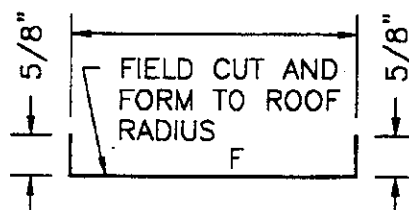
F = FINISH SIDE



COUNTERFLASHING



SUB-FLASHING



SPECIAL FLASHING

DATE: 11-01-97

RAKE WALL DETAIL - CONVEX

PAGE\FILE

CT-55

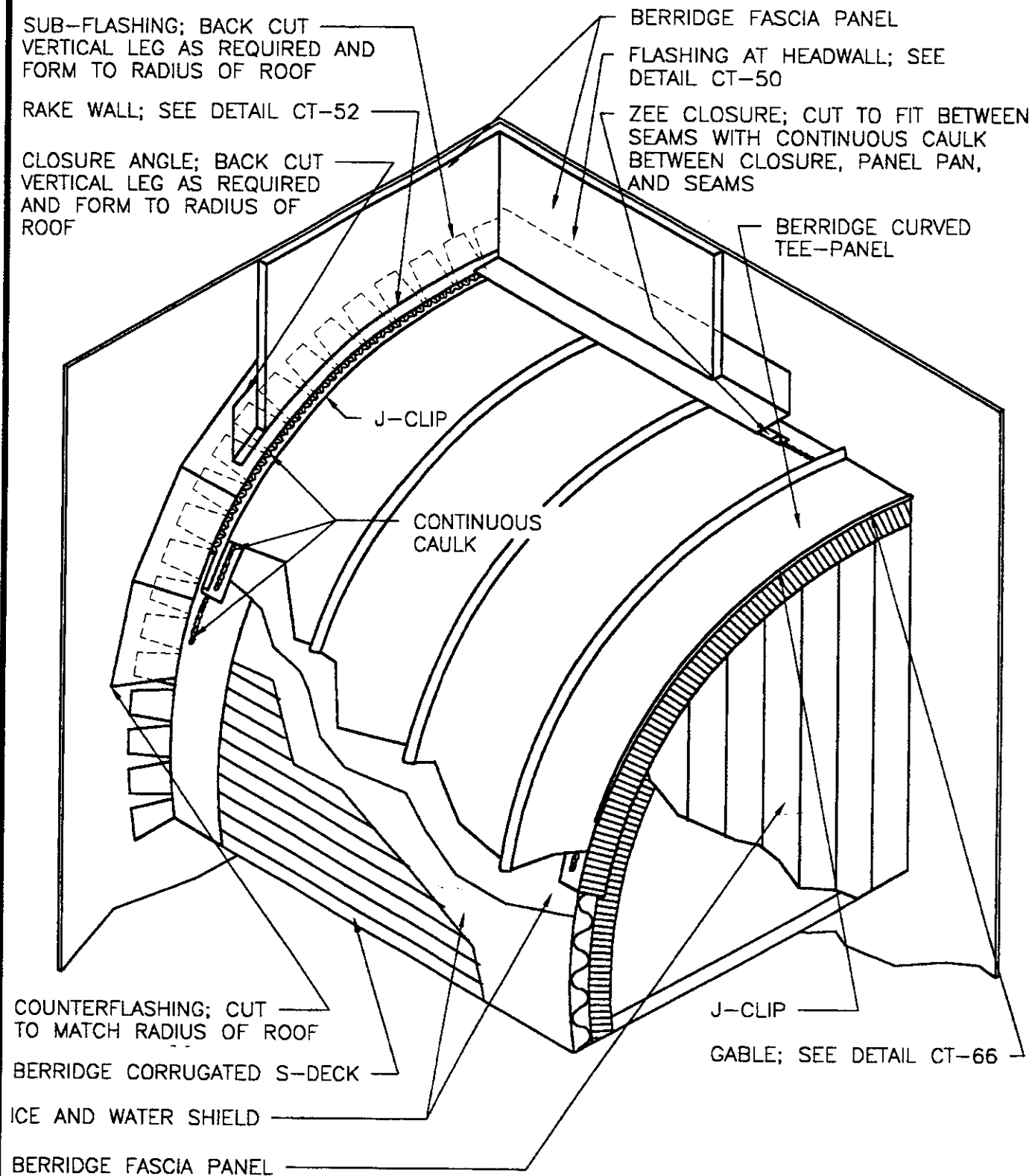
**CURVED TEE-PANEL**

**BERRIDGE**



**Berridge  
Manufacturing  
Company**

*Roofs of Distinction*



SUB-FLASHING; BACK CUT  
VERTICAL LEG AS REQUIRED AND  
FORM TO RADIUS OF ROOF

RAKE WALL; SEE DETAIL CT-53

COUNTERFLASHING; BACK CUT  
VERTICAL LEG AS REQUIRED  
AND FORM TO RADIUS OF  
ROOF

CONTINUOUS CAULK AT REGLET

FLASHING AT HEADWALL; SEE  
DETAIL CT-51

ZEE CLOSURE; CUT TO FIT BETWEEN  
SEAMS WITH CONTINUOUS CAULK  
BETWEEN CLOSURE, PANEL PAN,  
AND SEAMS

BERRIDGE CURVED  
TEE-PANEL

J-CLIP

CONTINUOUS  
CAULK

REGLET

BERRIDGE CORRUGATED S-DECK

ICE AND WATER SHIELD

BERRIDGE FASCIA PANEL

J-CLIP

GABLE; SEE DETAIL CT-66

DATE: 11-01-97

CANOPY ISOMETRIC - CONVEX

PAGE \ FILE

CT-57

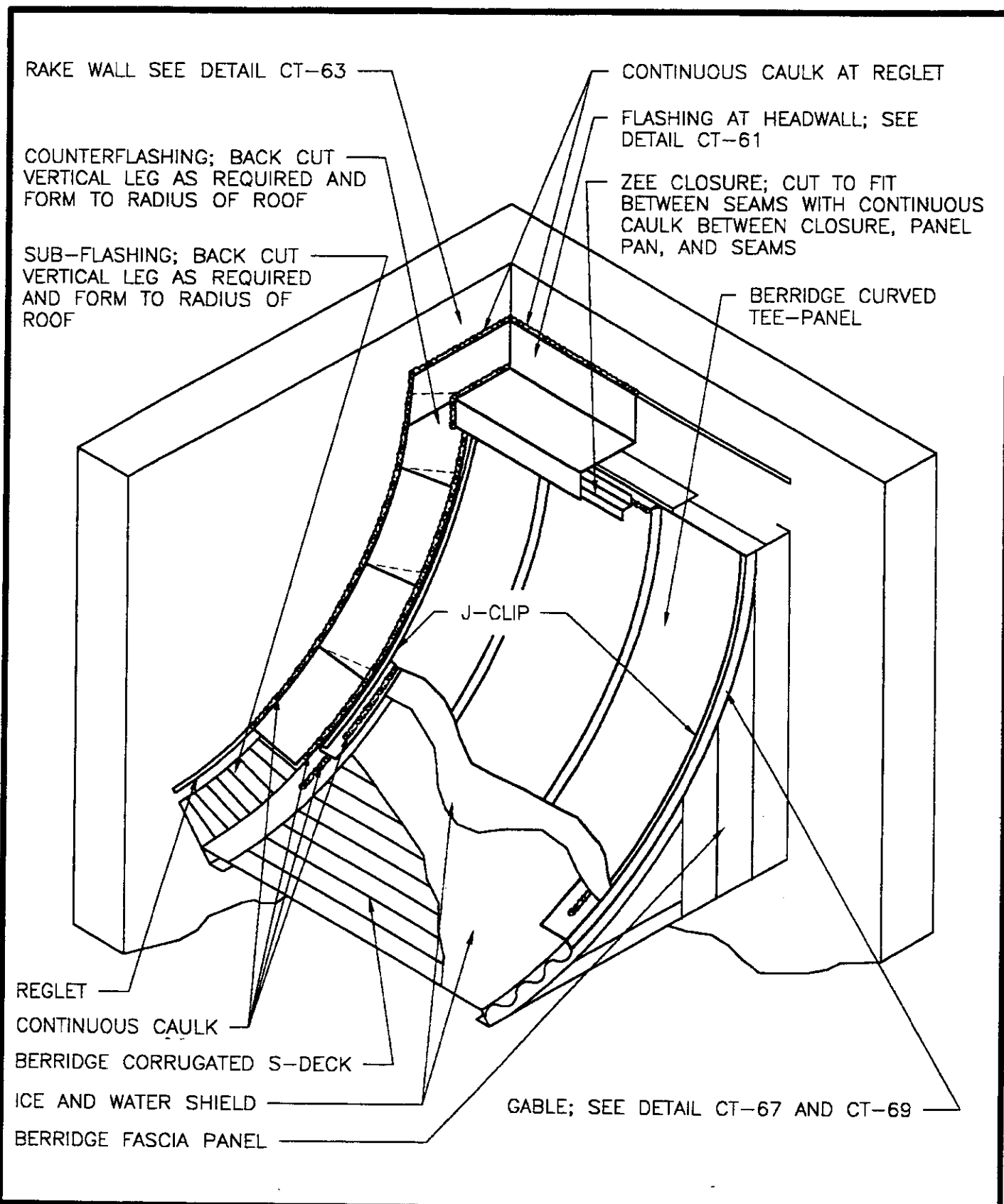
**CURVED TEE-PANEL**

**BERRIDGE**



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Company

*Roofs of Distinction*





RAKE WALL SEE DETAIL CT-62

CLOSURE ANGLE; BACK CUT  
VERTICAL LEG AS REQUIRED AND  
FORM TO RADIUS OF ROOF

SUB-FLASHING; BACK CUT  
VERTICAL LEG AS REQUIRED  
AND FORM TO RADIUS OF  
ROOF

FASCIA

FLASHING AT HEADWALL; SEE  
DETAIL CT-60

ZEE CLOSURE; CUT TO FIT  
BETWEEN SEAMS WITH CONTINUOUS  
CAULK BETWEEN CLOSURE, PANEL  
PAN, AND SEAMS

BERRIDGE CURVED  
TEE-PANEL

J-CLIP

CONTINUOUS CAULK

BERRIDGE CORRUGATED S-DECK

ICE AND WATER SHIELD

BERRIDGE FASCIA PANEL

GABLE; SEE DETAIL CT-67 AND CT-69

DATE: 11-01-97

CANOPY ISOMETRIC - CONCAVE

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**CURVED TEE-PANEL**

BERRIDGE



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COUNTERFLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS. POP RIVET TO ZEE CLOSURE 40" O.C. MAX.

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

CONTINUOUS BEAD OF CAULK BETWEEN ZEE CLOSURE, PANEL, AND SEAMS

ZEE CLOSURE; CUT TO FIT BETWEEN SEAMS. MIN. 2 FASTENERS PER CLOSURE

BERRIDGE CURVED TEE-PANEL LEG

FOLDING TEE-CLIP; 20" O.C. MAX.

\*SNAP-ON SEAM

ICE AND WATER SHIELD

BERRIDGE CORRUGATED S-DECK

STRUCTURAL FRAMING

BERRIDGE FASCIA PANEL

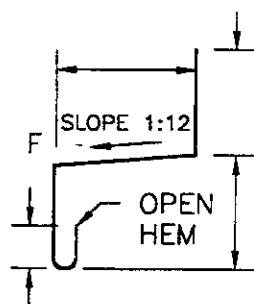
ICE AND WATER SHIELD

SLOPE 1:12

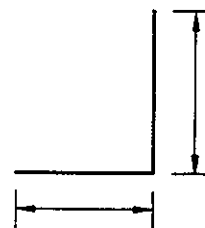
FASTENERS; 20" O.C. MAX.

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.

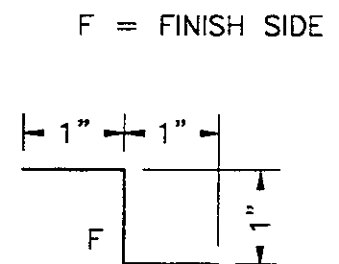
1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS.
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COUNTERFLASHING



SUB-FLASHING



ZEE CLOSURE



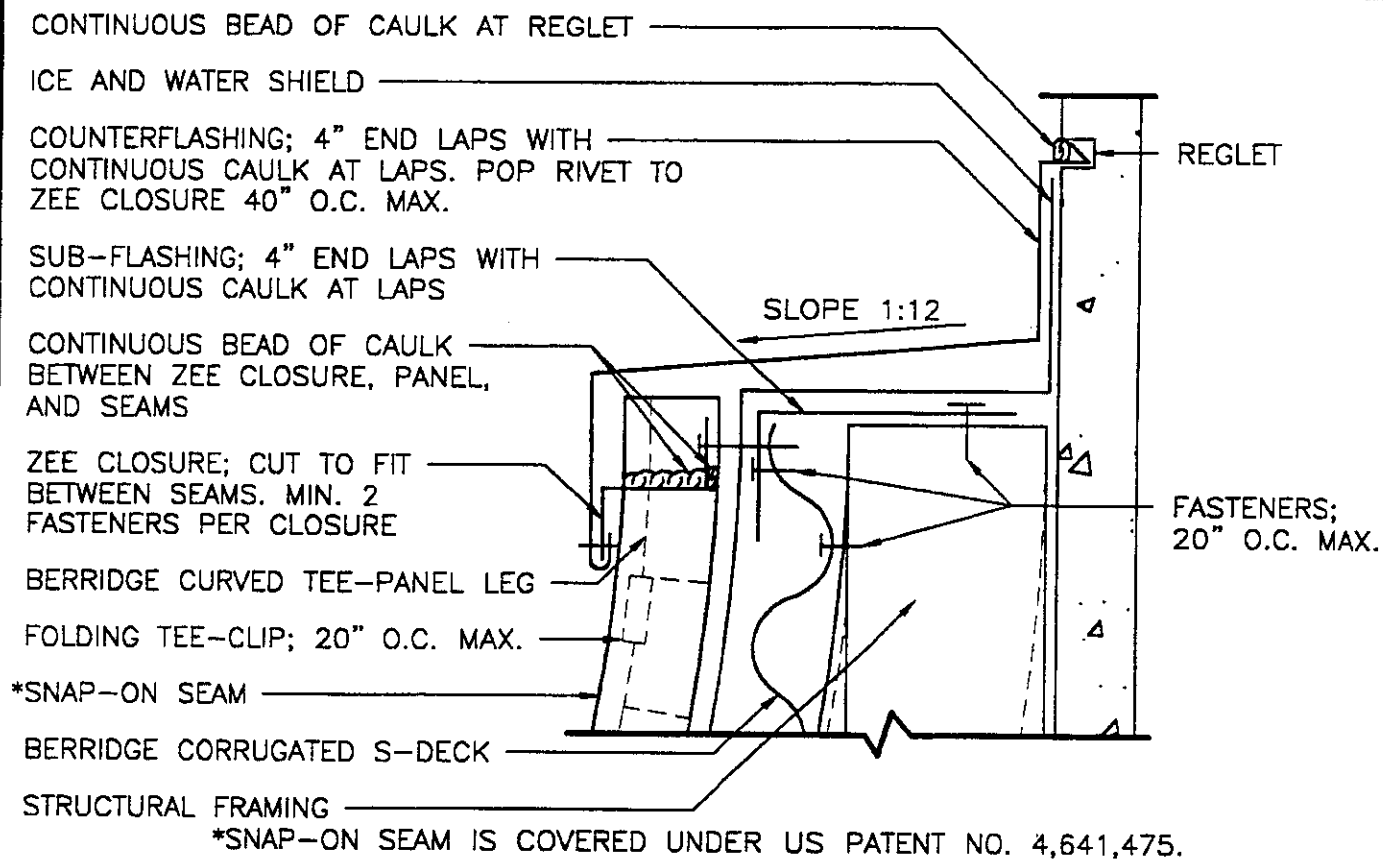
END WALL DETAIL - CONCAVE

**CURVED TEE-PANEL**

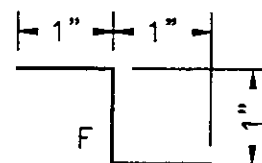
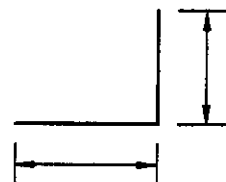
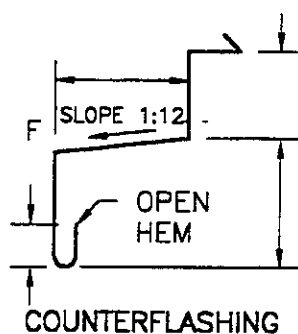
DATE: 11-01-97

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CT-60



1. FIELD CUT ZEE CLOSURE TO FIT BETWEEN SEAMS.
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DATE: 11-01-97

END WALL DETAIL — CONCAVE

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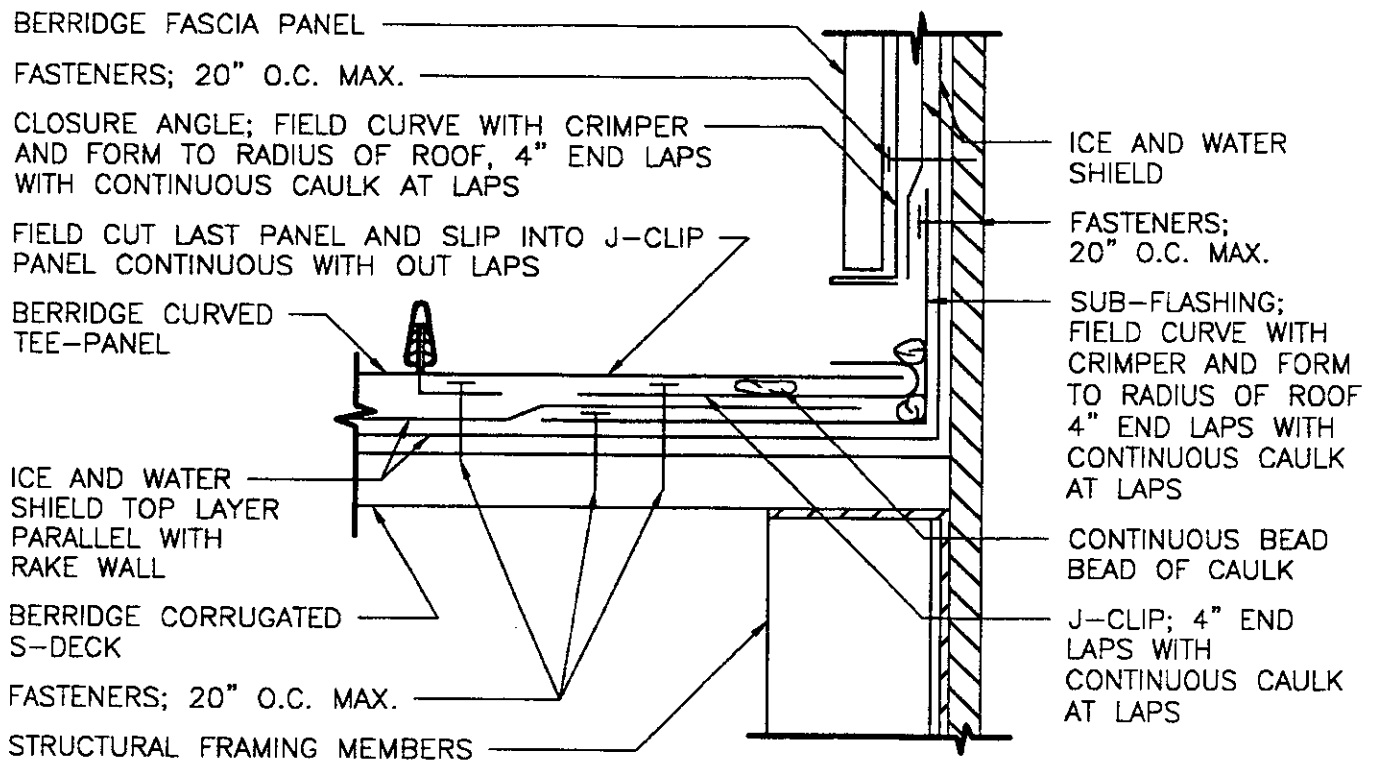
CT-61

**CURVED TEE-PANEL**



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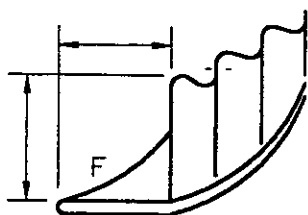
*Roofs of Distinction*



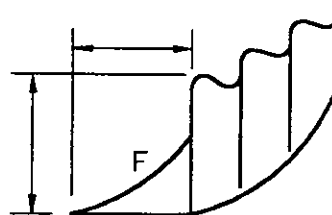
1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP.
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FIELD CURVE CLOSURE ANGLE AND SUB-FLASHING WITH CRIMPER

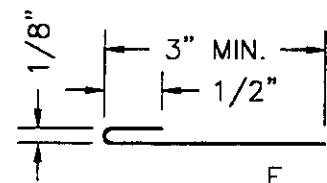
F = FINISH SIDE



CLOSURE ANGLE



SUB-FLASHING



J-CLIP



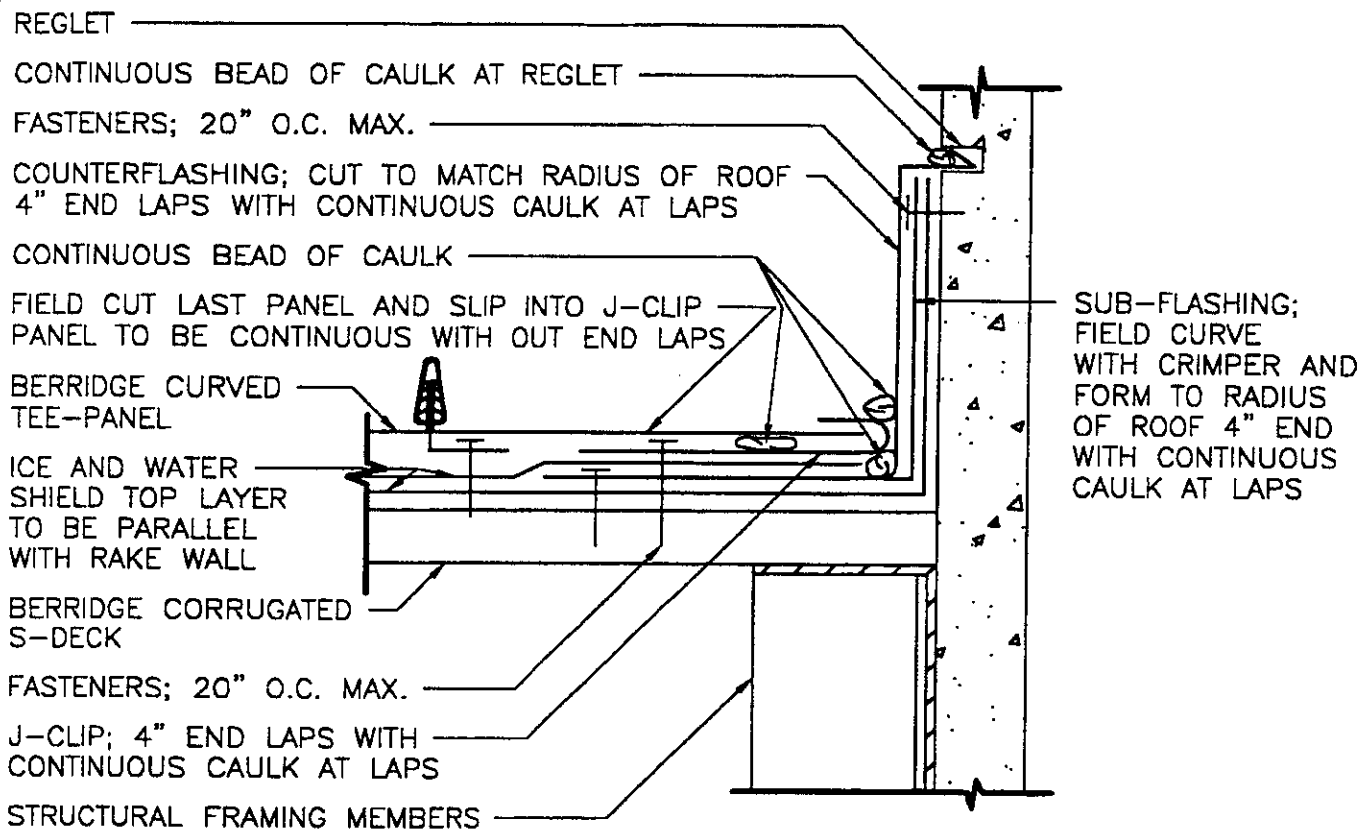
RAKE WALL DETAIL - CONCAVE

DATE: 11-01-97

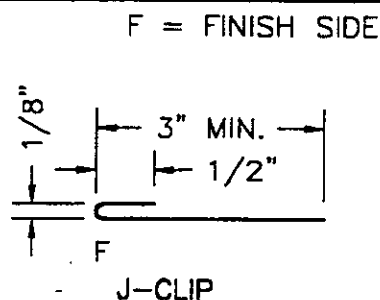
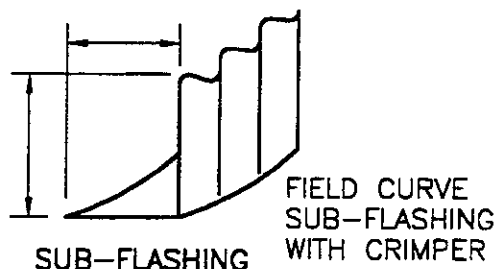
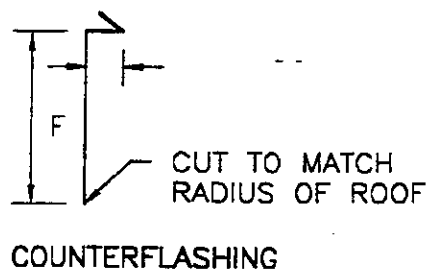
**CURVED TEE-PANEL**

PAGE \ FILE

CT-62



1. FIELD CUT LAST PANEL AND SLIP INTO J-CLIP.
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).
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DATE: 11-01-97

RAKE WALL DETAIL - CONCAVE

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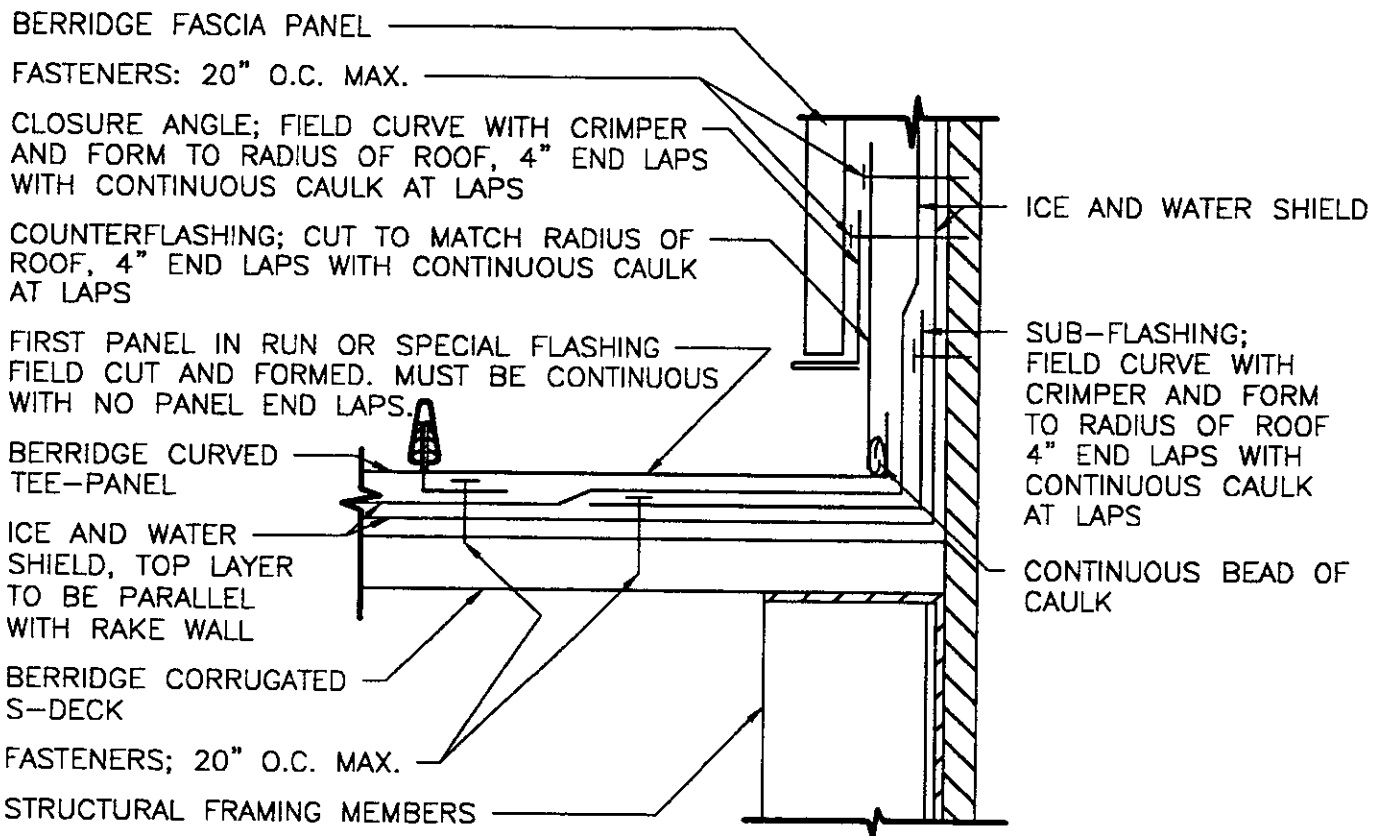
**CURVED TEE-PANEL**

**BERRIDGE**

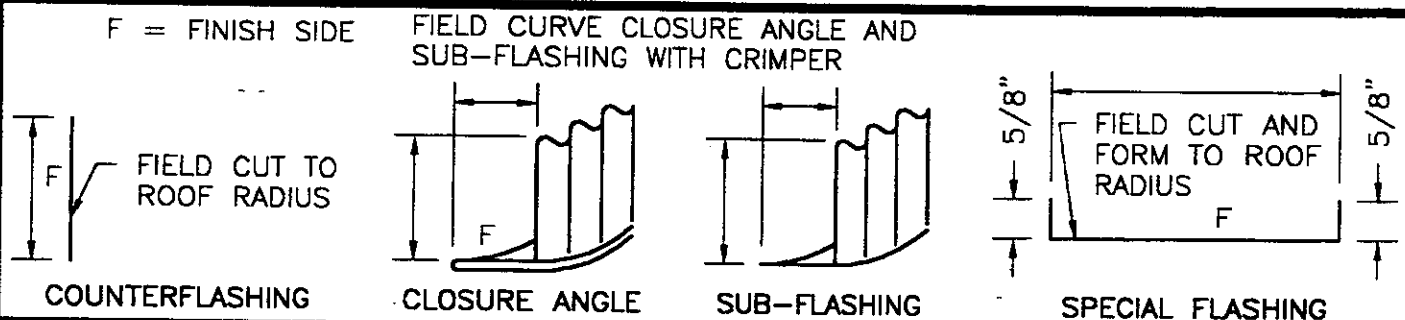


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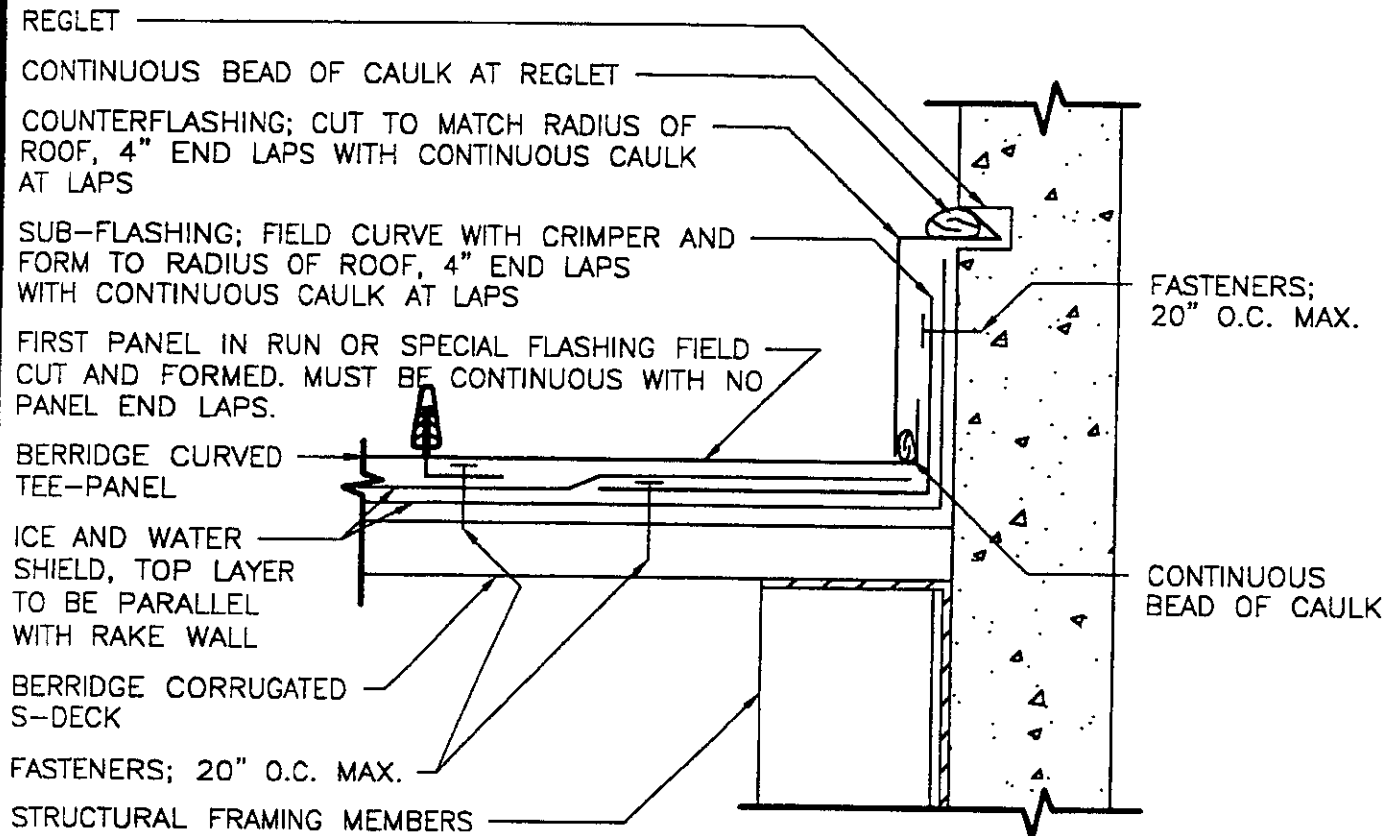
RAKE WALL DETAIL - CONCAVE

DATE: 11-01-97

**CURVED TEE-PANEL**

PAGE \ FILE

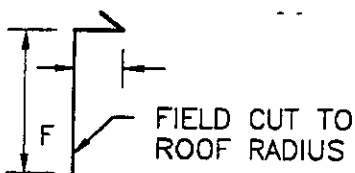
CT-64



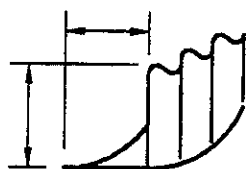
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F = FINISH SIDE

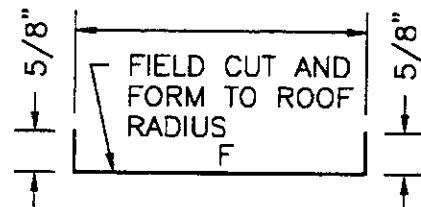
FIELD CURVE SUB-FLASHING  
WITH CRIMPER



COUNTERFLASHING



SUB-FLASHING



SPECIAL FLASHING

DATE: 11-01-97

RAKE WALL DETAIL - CONCAVE

PAGE\FILE

CT-65

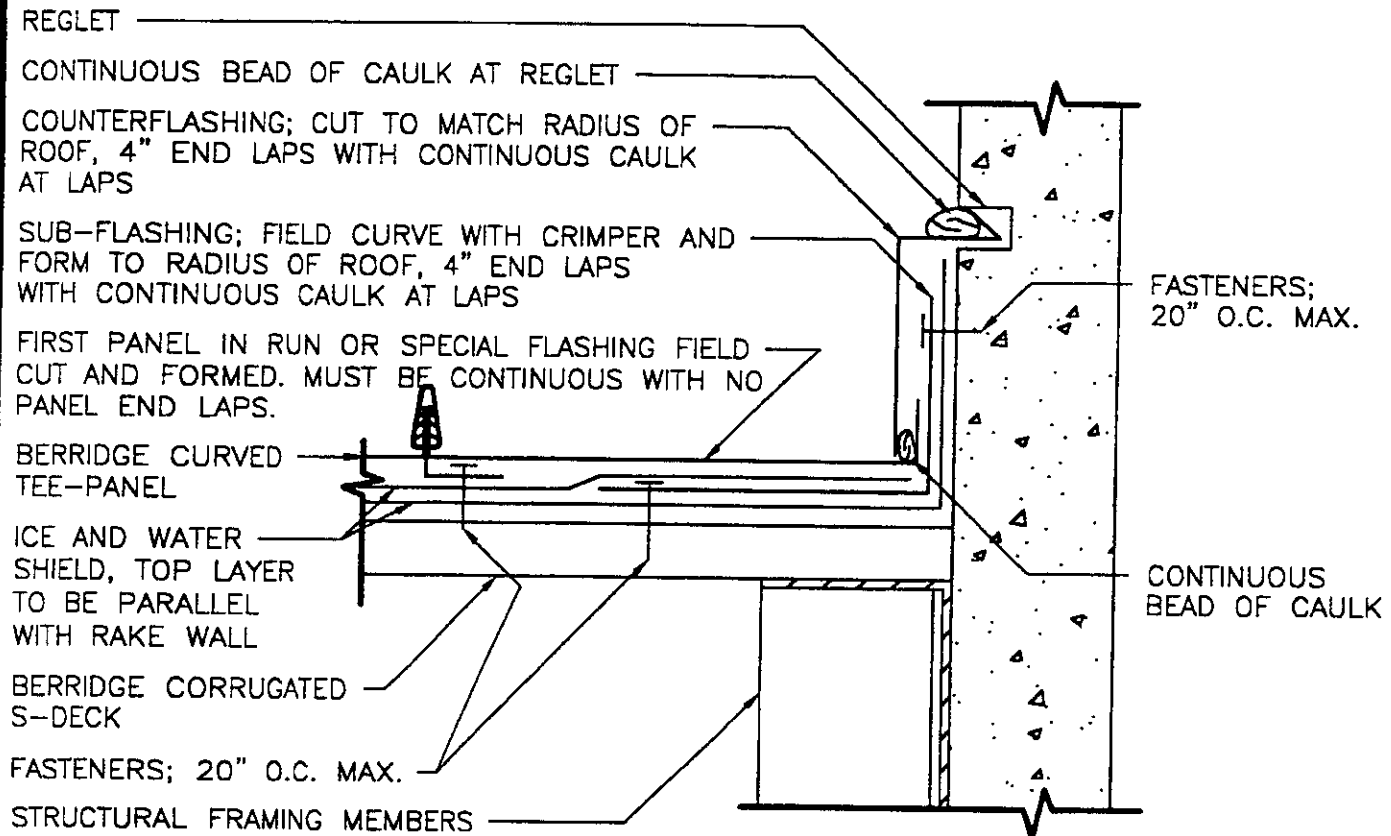
**CURVED TEE-PANEL**

**BERRIDGE**



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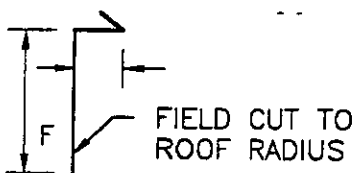
*Roofs of Distinction*



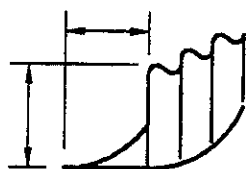
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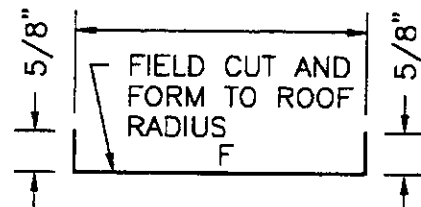
FIELD CURVE SUB-FLASHING  
WITH CRIMPER



COUNTERFLASHING



SUB-FLASHING



SPECIAL FLASHING

DATE: 11-01-97

RAKE WALL DETAIL - CONCAVE

PAGE\FILE

CT-65

**CURVED TEE-PANEL**

**BERRIDGE**



**Berridge  
Manufacturing  
Company**

*Roofs of Distinction*



\*SNAP-ON SEAM

FOLDING TEE-CLIP; 20" O.C. MAX.

FIELD CUT LAST PANEL AND SLIP INTO J-CLIP  
(PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE)

CONTINUOUS BEAD OF CAULK

J-CLIP; 4" END LAPS WITH  
CONTINUOUS CAULK AT LAPS

CURVED ANGLE; FIELD CURVE  
WITH CRIMPER, 4" END LAPS  
WITH CONTINUOUS CAULK AT  
LAPS

1/2"

BERRIDGE FASCIA PANEL

ICE AND WATER SHIELD

STRUCTURAL FRAMING MEMBERS

BERRIDGE CURVED  
TEE-PANEL

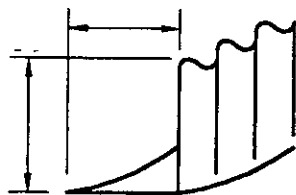
ICE AND WATER GUARD  
TOP LAYER TO BE  
PARALLEL WITH GABLE

FASTENERS; 20" O.C. MAX.  
PLACE A SMALL AMOUNT OF  
CAULK AT J-CLIP FASTENER  
LOCATION, DRIVE FASTENER  
THROUGH CAULK, THEN  
CAULK FASTENER HEAD.

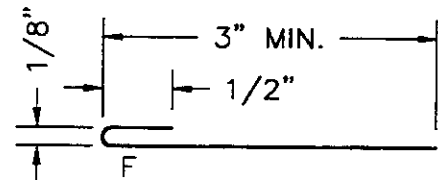
\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

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F = FINISH SIDE



CURVED ANGLE



J-CLIP



Berridge  
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GABLE DETAIL — CONVEX

**CURVED TEE-PANEL**

DATE: 11-01-97

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\*SNAP-ON SEAM

FOLDING TEE-CLIP; 20" O.C. MAX.

FIELD CUT LAST PANEL AND SLIP INTO J-CLIP  
(PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE)

CONTINUOUS BEAD OF CAULK

J-CLIP; 4" END LAPS WITH  
CONTINUOUS CAULK AT LAPS

COUNTERFLASHING; FIELD CUT  
TO ROOF RADIUS, 4" END LAPS  
WITH CONTINUOUS CAULK AT LAPS.  
POP RIVET TO CURVED ANGLE  
20" O.C., CAULK RIVET HEADS.

CURVED ANGLE; FIELD CURVE  
WITH CRIMPER, 4" END LAPS  
WITH CONTINUOUS CAULK AT LAPS

BERRIDGE FASCIA PANEL

ICE AND WATER SHIELD

STRUCTURAL FRAMING MEMBERS

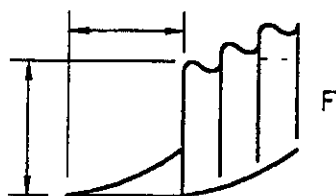
BERRIDGE CURVED  
TEE-PANEL

ICE AND WATER SHIELD  
TOP LAYER PARALLEL  
WITH GABLE

FASTENERS; 20" O.C. MAX.  
PLACE A SMALL AMOUNT OF  
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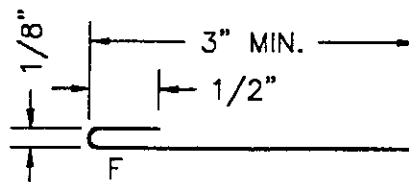
CURVED ANGLE

FIELD CUT TO  
ROOF RADIUS



COUNTERFLASHING

F = FINISH SIDE



J-CLIP

DATE: 11-01-97

GABLE DETAIL - CONCAVE

PAGE\FILE

CT-67

**CURVED TEE-PANEL**

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\*SNAP-ON SEAM

FOLDING TEE-CLIP; 20" O.C. MAX.

FIELD CUT LAST PANEL AND FORM  
PANEL AROUND DRIP FLASHING  
(PANEL MUST BE CONTINUOUS FROM  
RIDGE TO EAVE)

BERRIDGE CURVED  
TEE-PANEL

DRIP FLASHING; FIELD CURVE  
WITH CRIMPER, 4" END LAPS  
WITH CONTINUOUS CAULK AT LAPS

BERRIDGE FASCIA PANEL

ICE AND WATER SHIELD

STRUCTURAL FRAMING MEMBERS

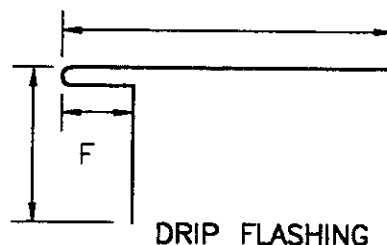
ICE AND WATER SHIELD  
TOP LAYER PARALLEL  
WITH GABLE

FASTENERS; 20" O.C. MAX.

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

1. FIELD CUT AND LAST PANEL AROUND DRIP FLASHING.
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 AND LOAD REQUIREMENTS.
4. THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
5. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

F = FINISH SIDE



FIELD CURVE  
DRIP FLASHING  
WITH CRIMPER

DRIP FLASHING



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GABLE DETAIL — CONVEX

**CURVED TEE-PANEL**

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**CT-68**

\*SNAP-ON SEAM

FOLDING TEE-CLIP; 20" O.C. MAX.

FIELD CUT LAST PANEL AND FORM PANEL  
AROUND DRIP FLASHING (PANEL MUST BE  
CONTINUOUS FROM RIDGE TO EAVE)

CONTINUOUS CAULK

DRIP FLASHING; FIELD CURVE  
WITH CRIMPER, 4" END LAPS  
WITH CONTINUOUS CAULK AT  
LAPS

1/2"

COUNTERFLASHING; FIELD CUT  
TO RADIUS OF ROOF, AND POP  
RIVET TO DRIP FLASHING 20"  
O.C. MAX., 4" END LAPS WITH  
CONTINUOUS CAULK AT LAPS  
CAULK POP RIVET HEADS

BERRIDGE FASCIA PANEL

ICE AND WATER SHIELD

STRUCTURAL FRAMING MEMBERS

BERRIDGE CURVED  
TEE-PANEL

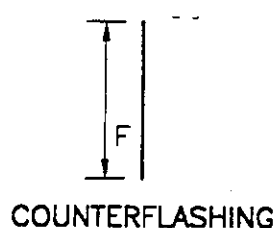
ICE AND WATER GUARD  
TOP LAYER TO BE  
PARALLEL WITH GABLE

FASTENERS; 20" O.C. MAX.

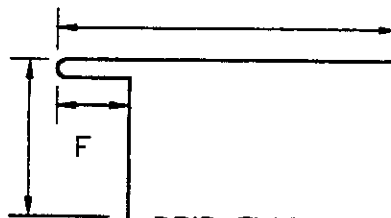
\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

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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).
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4. THE DESIGN, SIZING AND SPACING OF FRAMING MEMBERS TO BE DETERMINED BY OTHERS.
5. ALL 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



DRIP FLASHING

FIELD CURVE  
DRIP FLASHING  
WITH CRIMPER

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GABLE DETAIL - CONCAVE

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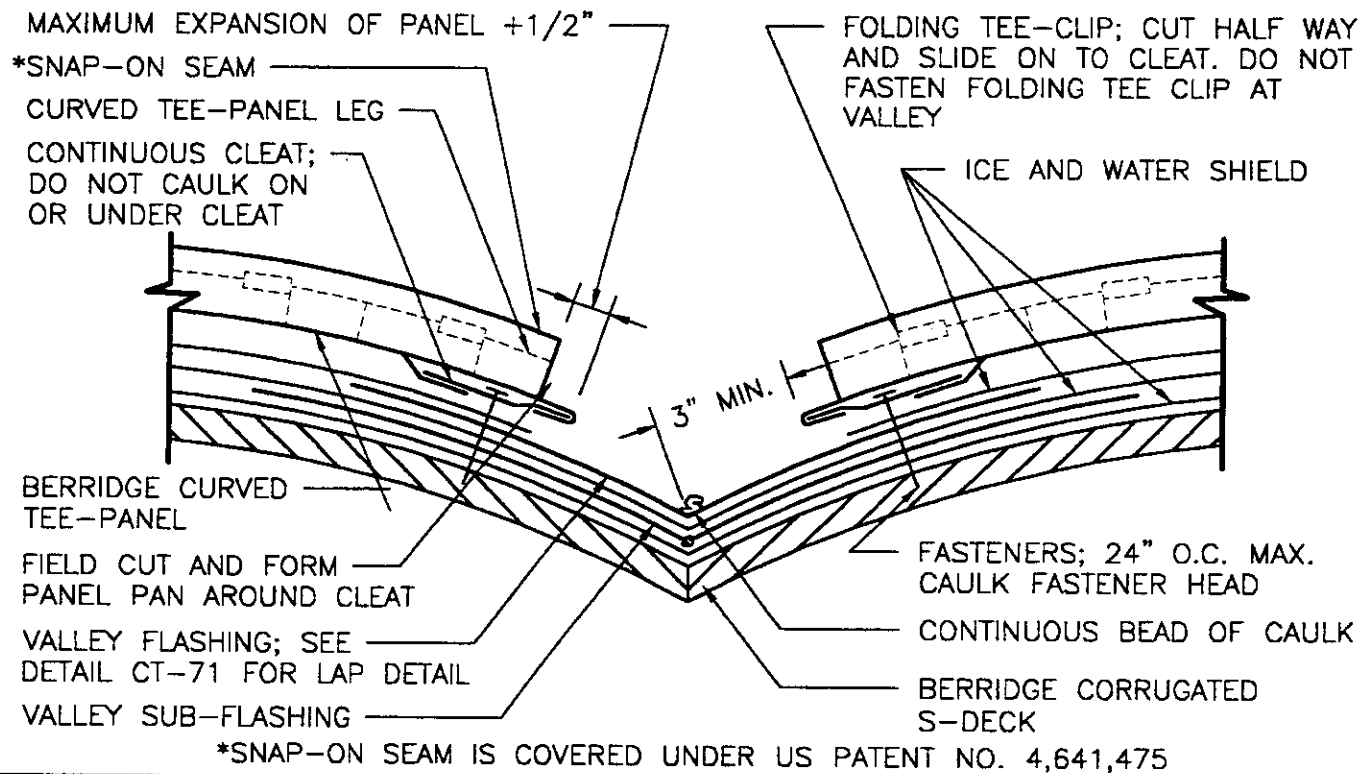
**CURVED TEE-PANEL**

BERRIDGE

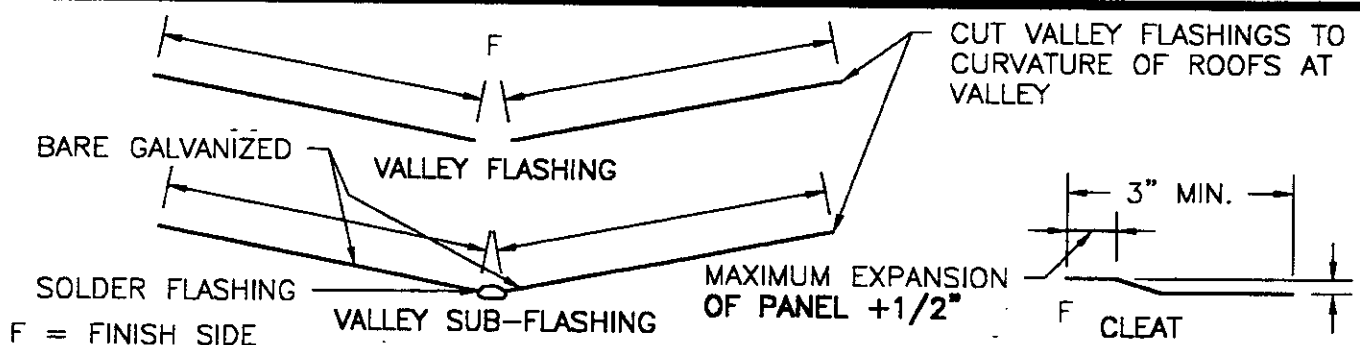


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1. THE "GAP" BETWEEN CLEAT AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE  $1/2''$  OF PANEL PAN MUST BE ENGAGED WITH CLEAT WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. REFER TO DETAIL CTA-4.
2. GAP BETWEEN CLEAT AND PANEL MUST BE ADJUSTED TO SUIT TEMPERATURE DURING INSTALLATION.
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  $1\ 1/2'' \times 2''$  CURVED OR STRAIGHT ANGLE FRAMING IS SHOWN. HEAVIER GAUGE FRAMING MEMBERS MAY BE REQUIRED DEPENDING ON SIZE OF APPLICATION AN LOAD REQUIREMENTS.
5. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



VALLEY FLASHING - CONVEX  
SEE DETAIL CT-72 FOR ALTERNATE  
VALLEY FLASHING METHOD

**CURVED TEE-PANEL**

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**CT-70**

CUT FOLDING TEE-CLIP HALF WAY AND SLIDE ON TO CLEAT. DO NOT FASTEN FOLDING TEE-CLIPS AT VALLEY

CONTINUOUS BEAD OF CAULK

VALLEY FLASHING; CUT TO CONTOUR OF VALLEY CENTER LINE

CONTINUOUS CLEAT;  
DO NOT CAULK ON OR UNDER CLEAT

ICE AND WATER SHIELD

BERRIDGE CURVED TEE-PANEL

VALLEY CENTER LINE

VALLEY SUB-FLASHING; CUT TO CONTOUR OF VALLEY CENTER LINE, SOLDER JOINT

BERRIDGE CORRUGATED S-DECK

FASTEN VALLEY FLASHING ONLY AT THE TOP OF FLASHING UNDER LAP, NO FASTENERS ARE TO BE EXPOSED ON TOP (OVER LAPPING) VALLEY

ICE AND WATER SHIELD

VALLEY FLASHING;  
CAULK JOINT

6"  
MIN. LAP

(2) CONTINUOUS BEAD OF CAULK AT LAP

VALLEY SUB-FLASHING;  
SOLDER JOINT

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

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CT-71

VALLEY FLASHING  
ISOMETRIC — CONVEX

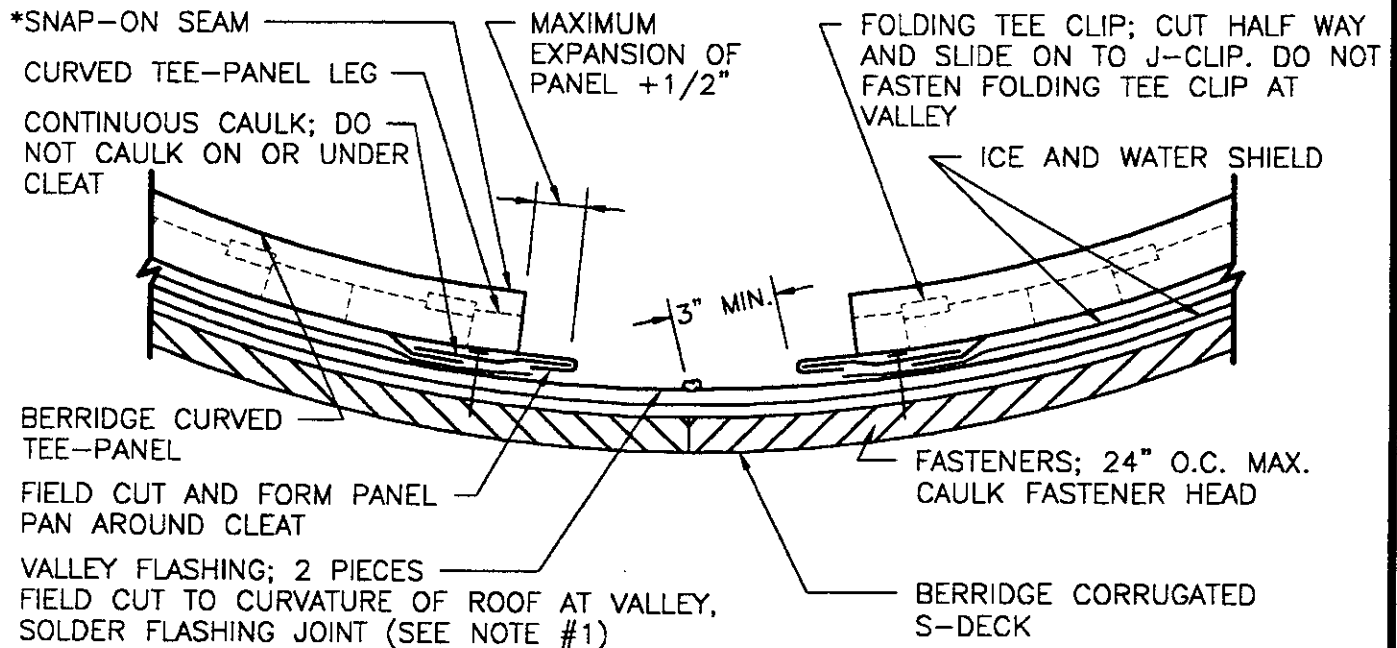
**CURVED TEE-PANEL**

BERRIDGE



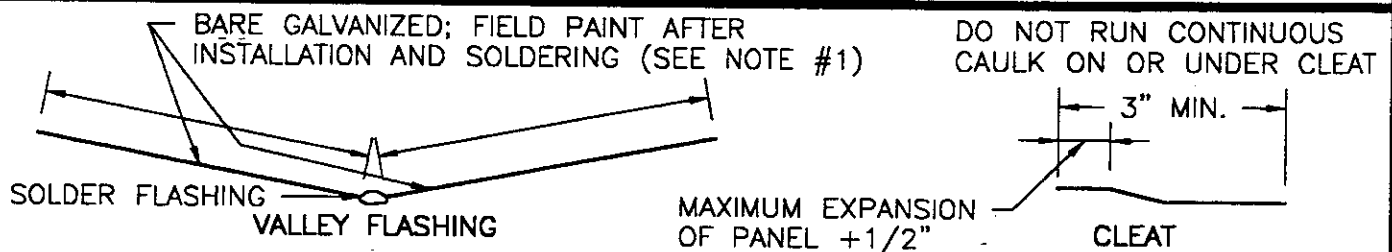
Berridge  
Manufacturing  
Company

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\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

1. VALLEY FLASHING TO BE 24 GAUGE BARE HOT DIPPED GALVANIZED FLAT SHEET METAL. FIELD PAINT AT PER THE FOLLOWING INSTRUCTION, 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 CURVED TEE PANEL FINISH.
2. THE "GAP" BETWEEN CLEAT AND PANEL (SEE DETAIL ABOVE) CAN BE INCREASED TO ALLOW FOR LINEAR EXPANSION AND CONTRACTION OF PANELS. NOTE 1/2" OF PANEL PAN MUST BE ENGAGED WITH CLEAT WHEN PANEL HAS EXPANDED TO ITS MAXIMUM LENGTH. REFER TO DETAIL CTA-4.
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6. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.

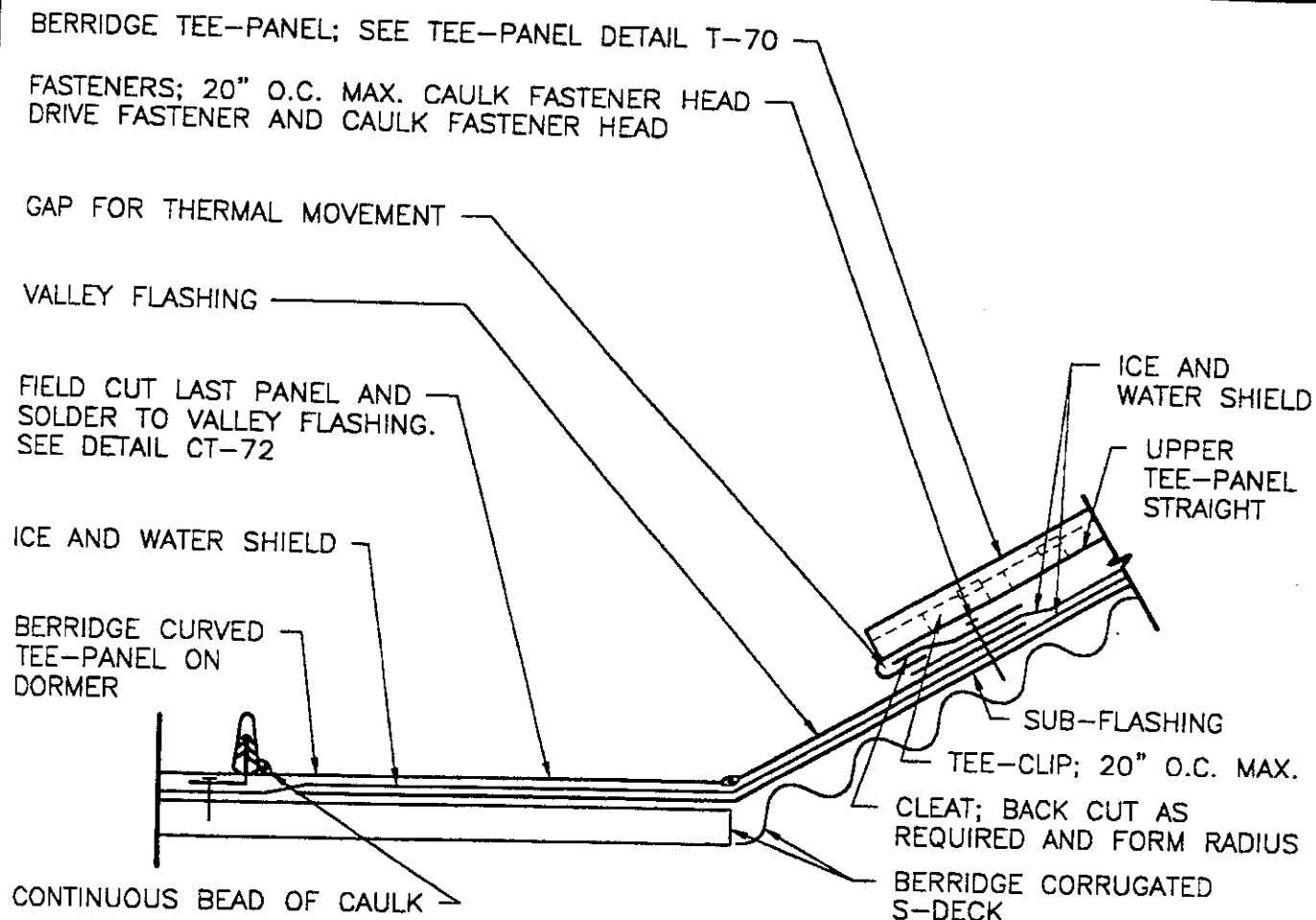


# VALLEY FLASHING CONVEX AND CONCAVE **CURVED TEE-PANEL**

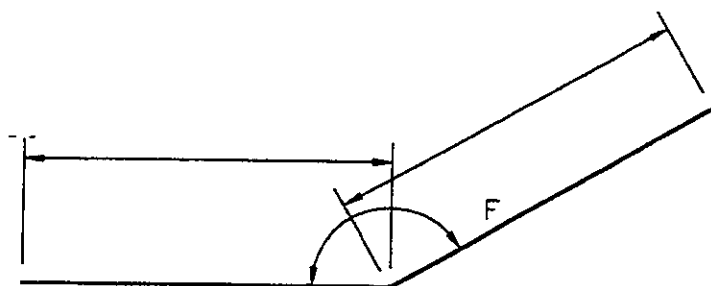
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CT-72



1. 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).
2. ALL UNDERLAYMENT, CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER AT THE DISCRETION OF THE ARCHITECT.



ANGLE FLASHING

F = FINISH SIDE

DATE: 11-01-97

VAULTED DORMER - VALLEY

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**CURVED TEE-PANEL**

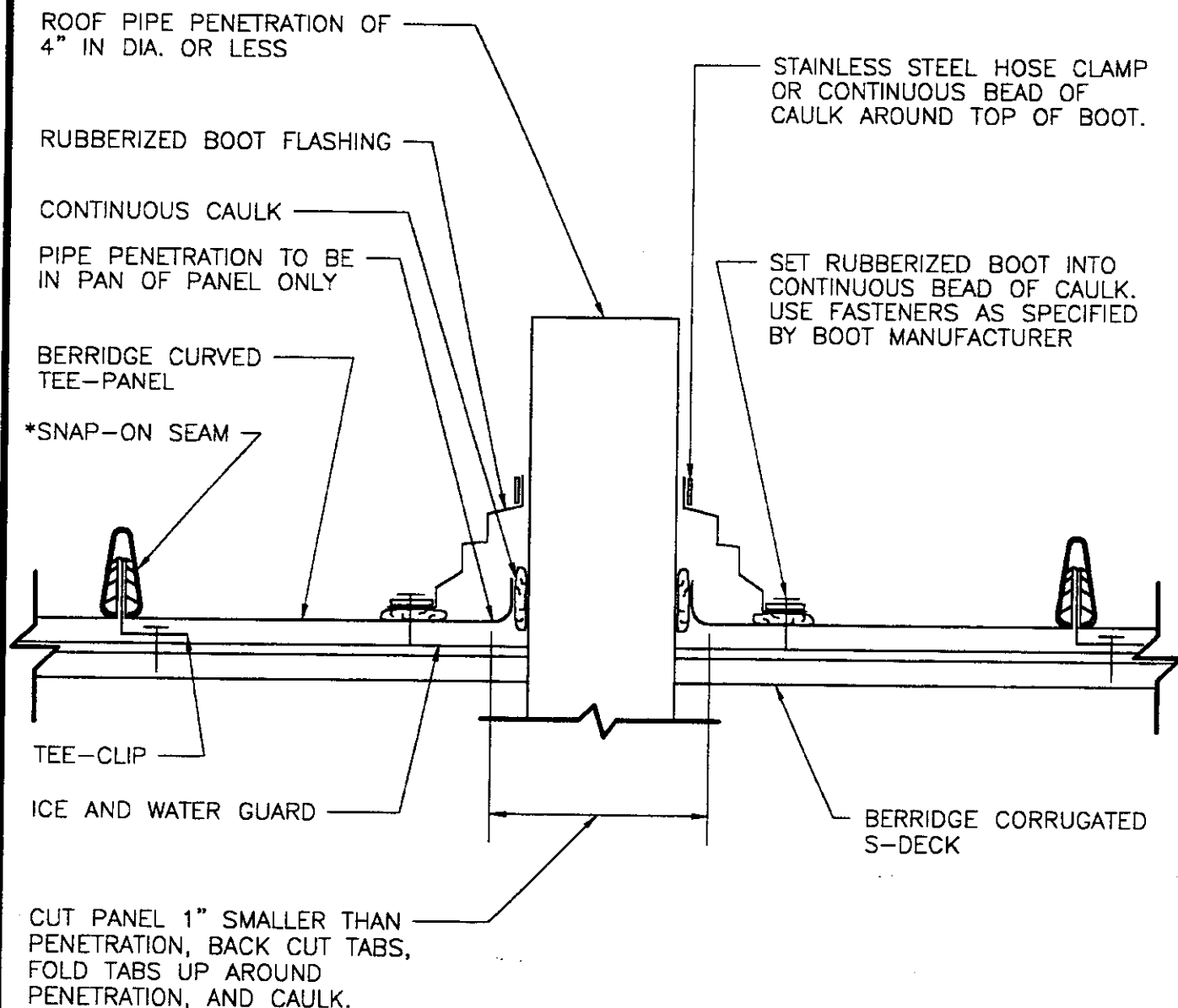
**BERRIDGE**



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Manufacturing  
Company**

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NOTE: CUT HOLE TO ALLOW FOR THERMAL MOVEMENT IF PANELS ARE 30'-0" OR LONGER.

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

NOTE: POSITION SQUARE BASED BOOT IN A DIAMOND ORIENTATION WHERE POSSIBLE TO AID IN DIVERTING WATER.

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475



PIPE PENETRATION (PREFERRED METHOD)  
IN PAN OF PANEL ONLY 4" DIA. OR LESS  
CONVEX AND CONCAVE

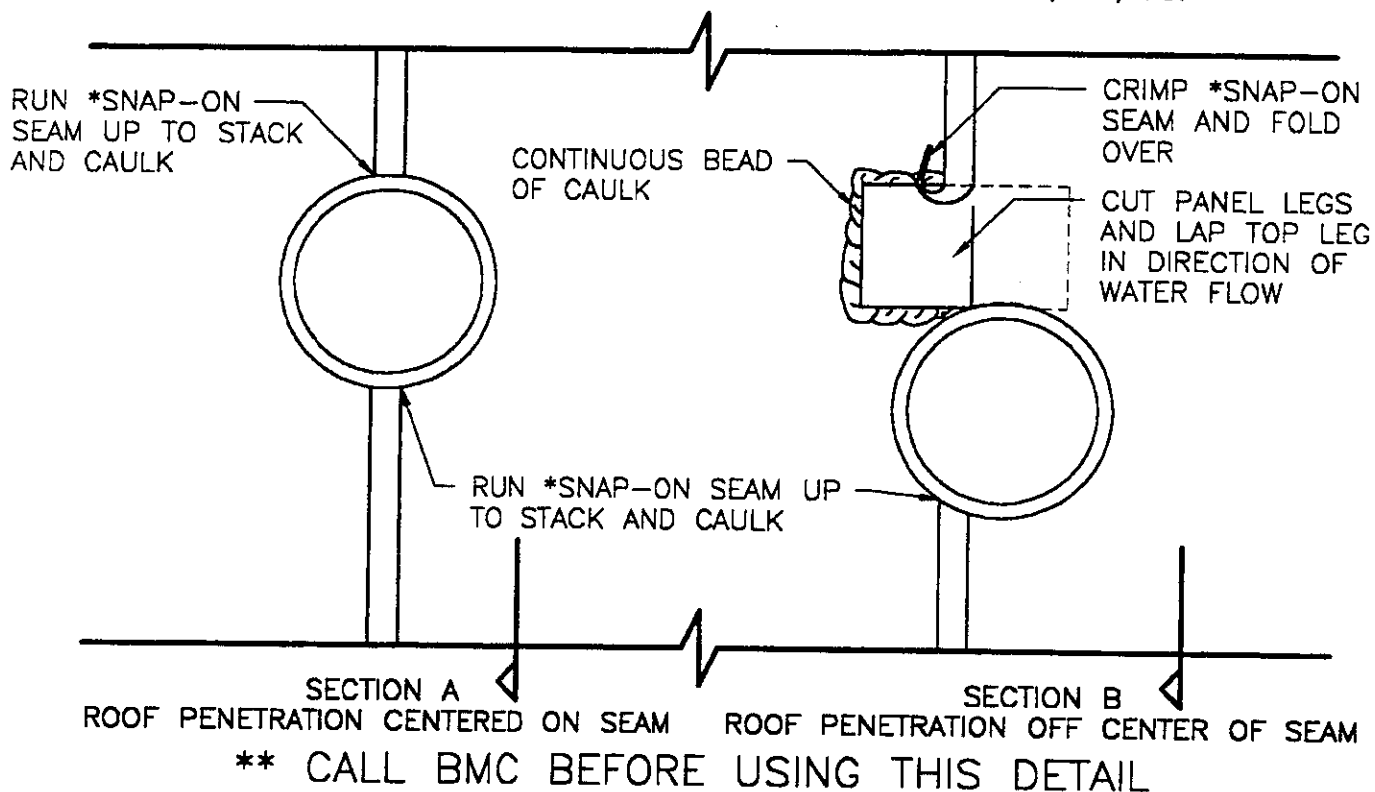
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DATE: 11-01-97

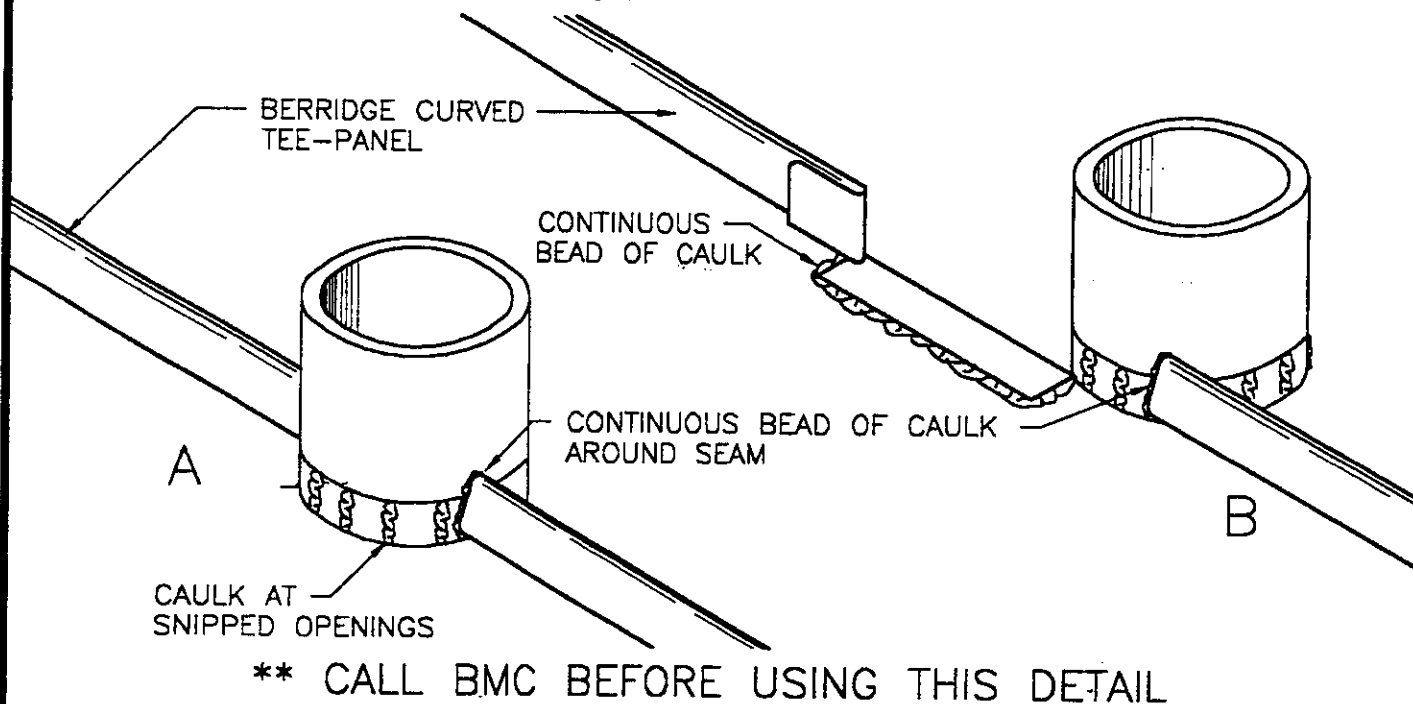
PAGE\FILE

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\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475.



NOTE: CALL BMC BEFORE USING DETAILS ON THIS PAGE. USE ONLY IF PENETRATION OCCURS ON SEAM OR WITHIN AREA OF PAN THAT WILL NOT ACCOMMODATE BOOT. USE WITH SOLID SUBSTRATE ONLY.



DATE: 05-01-97

ROOF PENETRATION  
ROUND STACK DETAIL  
CONVEX AND CONCAVE

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CT-81

**CURVED TEE-PANEL**

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## SECTION A\*\*

USE THIS DETAIL WHEN STACK IS CENTERED ON \*SNAP-ON SEAM

ROUND STACK MUST BE OF MATERIAL COMPATIBLE WITH 24 GA. GALVANIZED PAINTED METAL

CUT TEE-PANEL AND BEND UP 1" AROUND STACK AND CAULK

MITER ENDS OF \*SNAP-ON SEAM. RUN SEAM UP TO STACK AND CAULK

ICE AND WATER SHIELD  
TEE-CLIPS; 2 REQ'D AT PENETRATION

BERRIDGE CURVED TEE-PANEL

24 GA. ROUND STACK FLASHING TO MATCH PANEL COLOR

MITER END OF \*SNAP-ON SEAM RUN SEAM UP TO STACK AND CAULK

TEE-CLIPS; 2 REQ'D AT PENETRATION

ICE AND WATER SHIELD

BERRIDGE CORRUGATED S-DECK

FIELD MITER PANEL LEGS AND SEAM. CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK CUT HOLE AND BEND PANEL UP AROUND STACK.

\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

## SECTION B\*\*

USE THIS DETAIL WHEN STACK IS OFF CENTER OF \*SNAP-ON SEAM

ROUND STACK MUST BE OF MATERIAL COMPATIBLE WITH 24 GA. GALVANIZED PAINTED METAL

CUT TEE-PANEL AND BEND UP 1" AROUND STACK AND CAULK

MITER ENDS OF \*SNAP-ON SEAM. RUN SEAM UP TO STACK AND CAULK

ICE AND WATER SHIELD  
TEE-CLIPS; 2 REQ'D AT PENETRATION

BERRIDGE CURVED TEE-PANEL

24 GA. ROUND STACK FLASHING TO MATCH PANEL COLOR

CUT PANEL LEGS AND BEND FLAT TO PANEL. LAP ONE LEG OVER THE OTHER (LAP TOP LEG IN DIRECTION OF WATER FLOW)

CRIMP AND FOLD OVER \*SNAP-ON SEAM AND CAULK

TEE-CLIPS; 2 REQ'D AT PENETRATION

ICE AND WATER SHIELD

BERRIDGE CORRUGATED S-DECK

FIELD CUT LEGS 2" BACK FROM STACK (ABOVE STACK). FIELD MITER LEGS AND SEAMS BELOW STACK. CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK CUT HOLE AND BEND PANEL UP AROUND STACK.

\*\* CALL BMC BEFORE USING THIS DETAIL



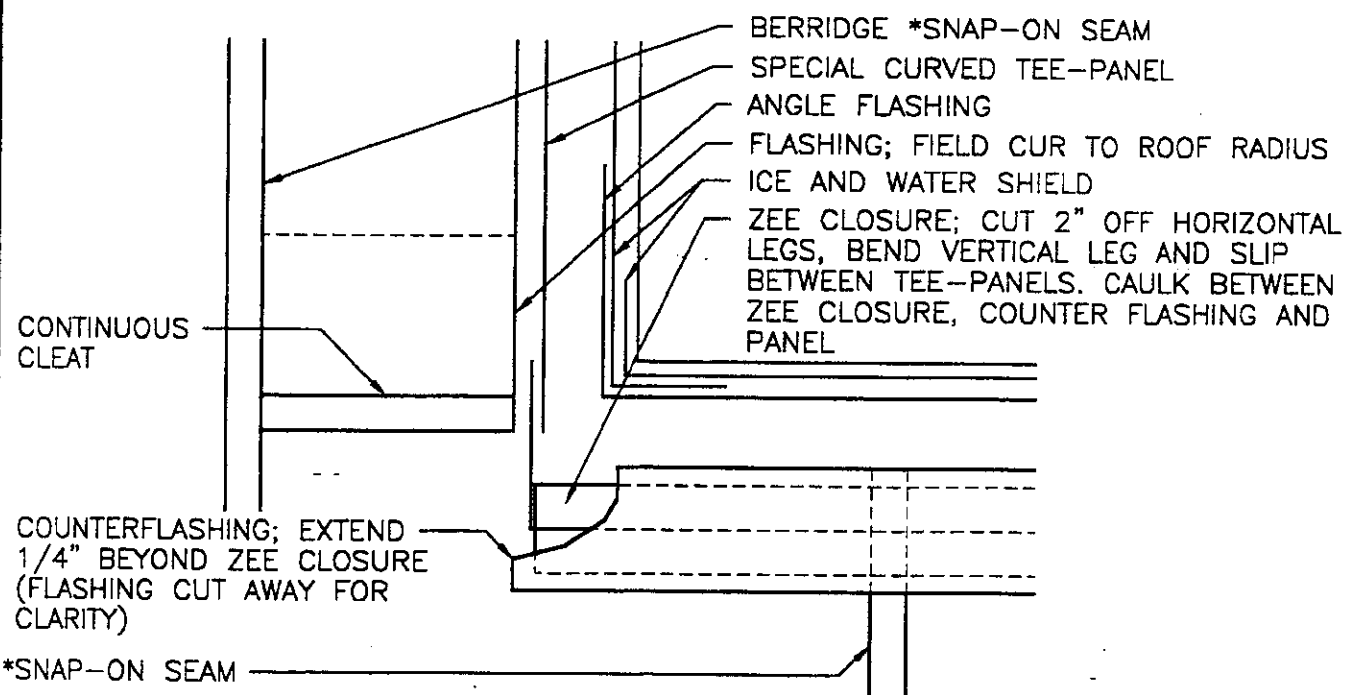
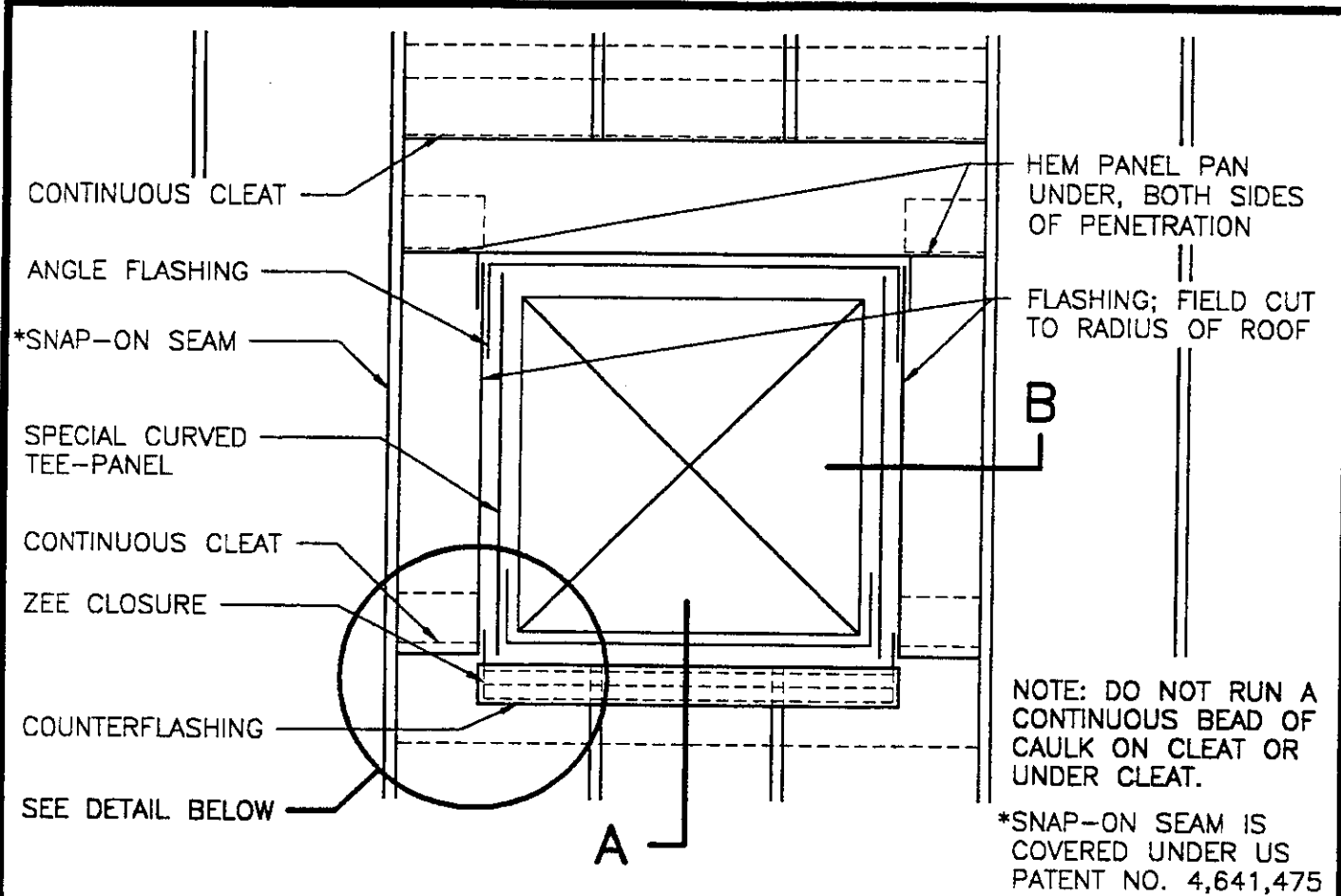
ROOF PENETRATION  
ROUND STACK DETAIL  
CONVEX AND CONCAVE

**CURVED TEE-PANEL**

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ROOF PENETRATION  
RECTANGULAR/SQUARE  
CONVEX AND CONCAVE

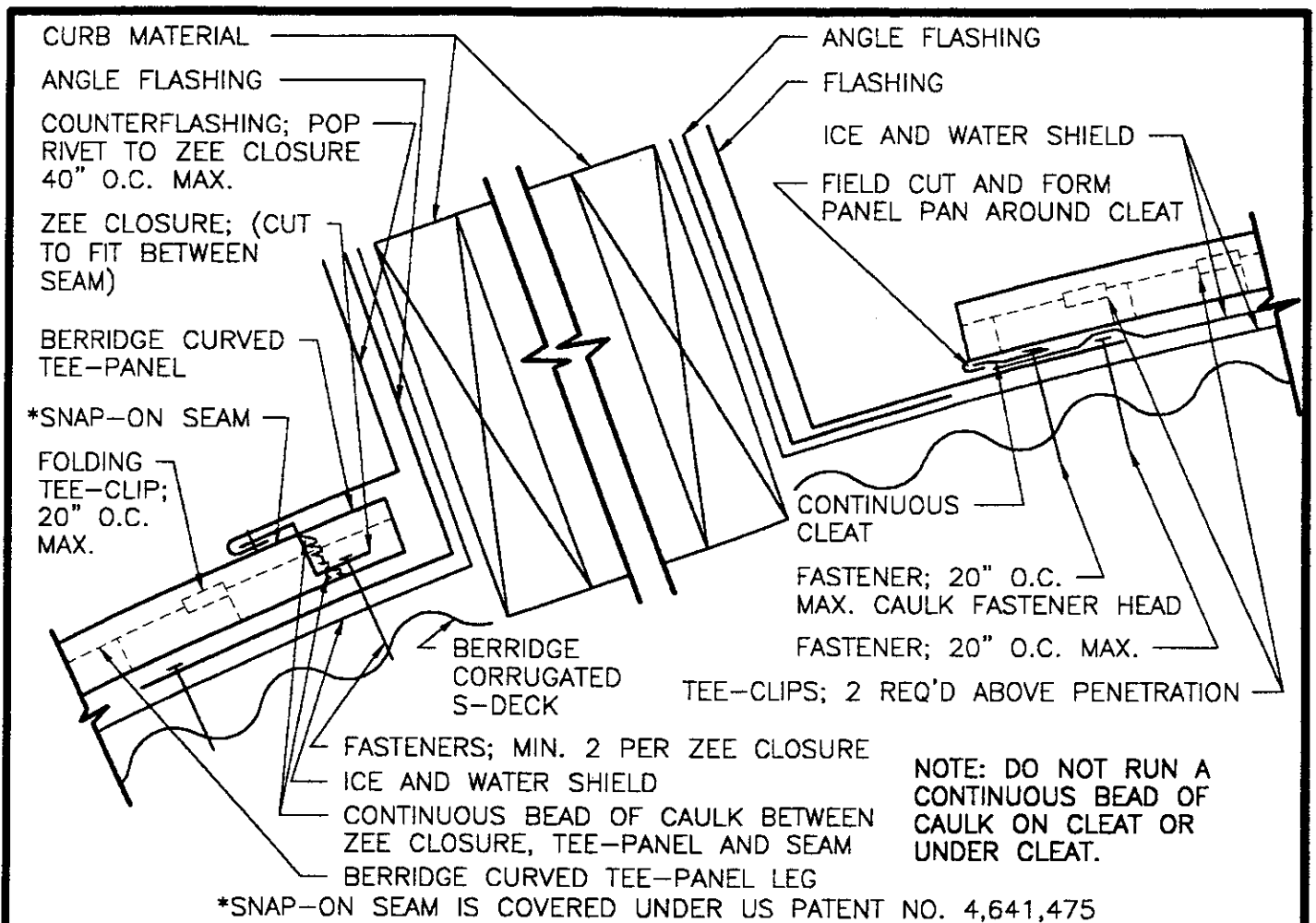
**CURVED TEE-PANEL**

BERRIDGE

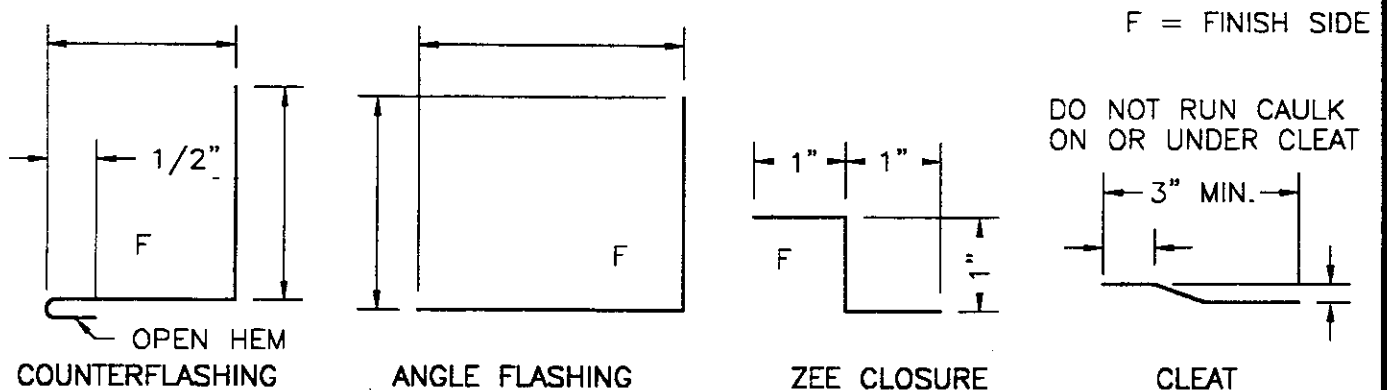


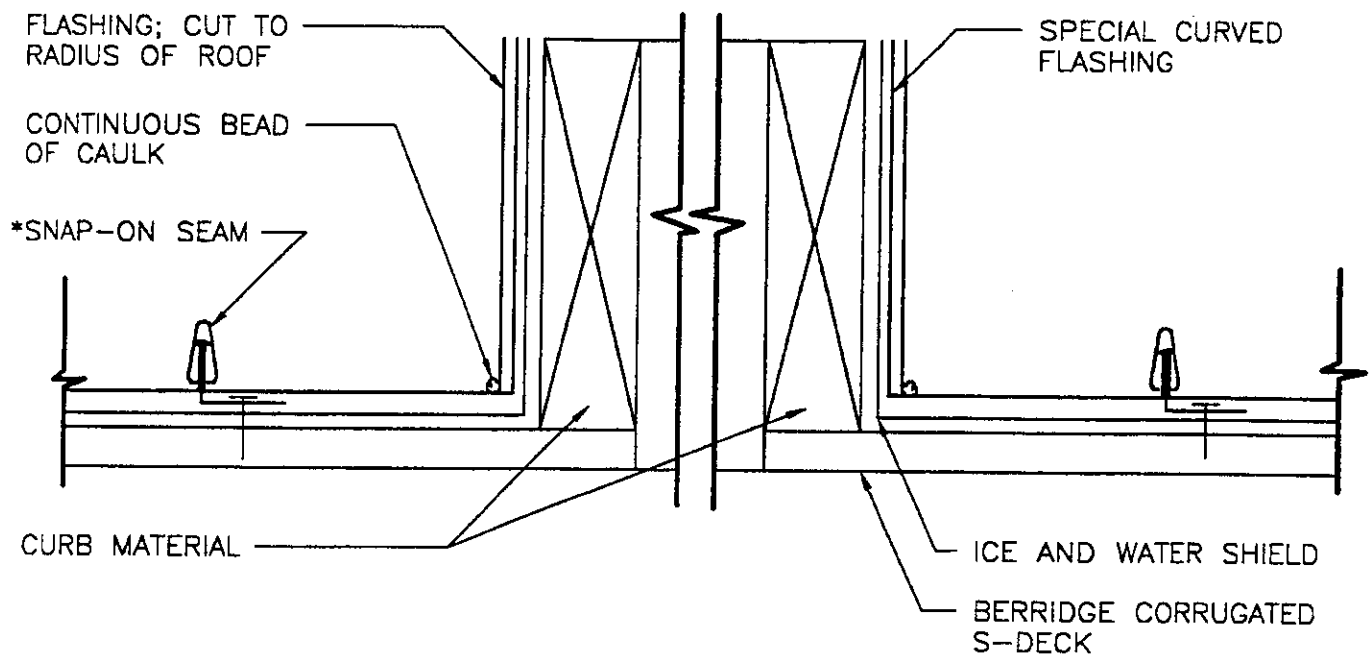
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Manufacturing  
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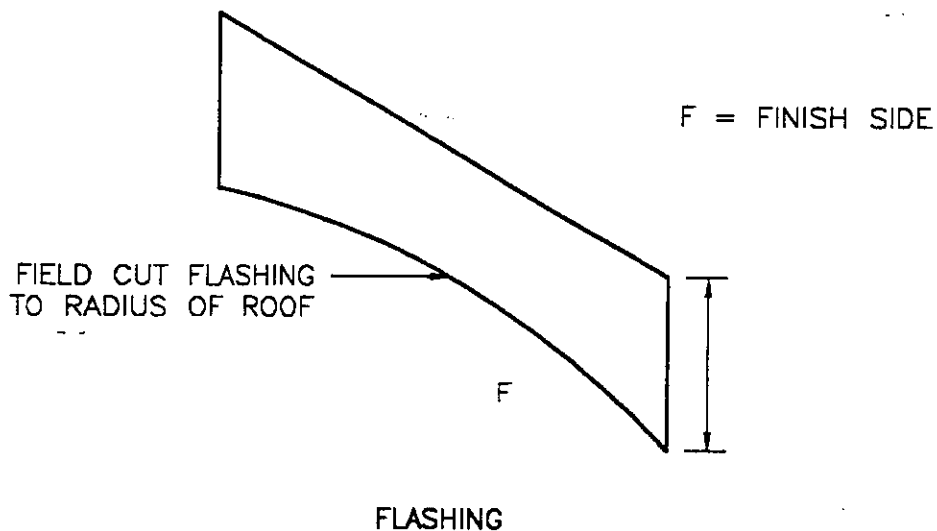
1. SEE DETAIL CT-10 FOR PANEL EXPANSION NOTES AT CLEAT.
2. SHEATHING TO BE MINIMUM 24 GAUGE CORRUGATED METAL SHEATHING OR EQUIVALENT IN STRENGTH FOR HOLDING POWER OF FASTENERS (1/2" PLYWOOD MINIMUM THICKNESS MAY BE USED IN LIEU OF CORRUGATED METAL SHEATHING).
3. ALL UNDERLAYMENT, CAULKING, AND FASTENERS,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





\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

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ROOF PENETRATION  
SECTION B - CONVEX

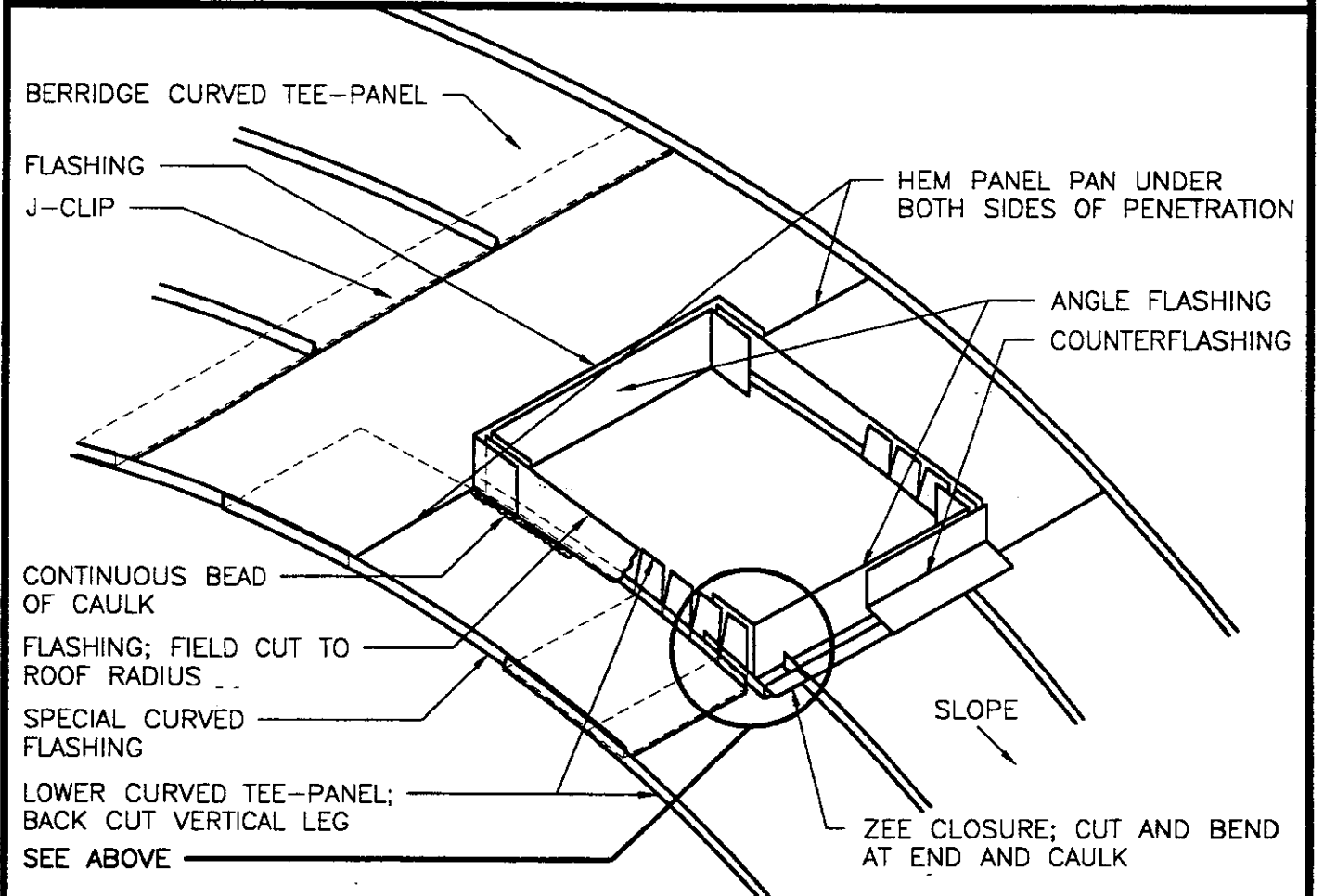
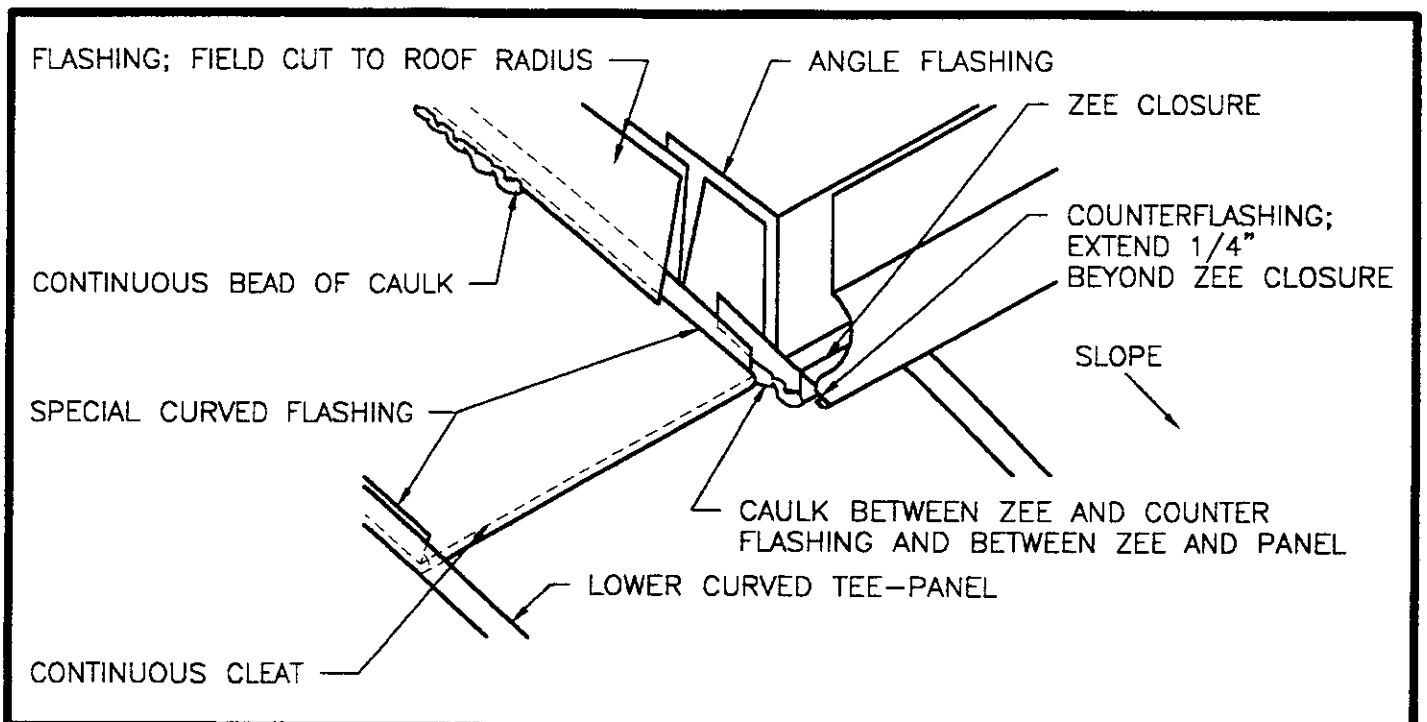
**CURVED TEE-PANEL**

**BERRIDGE**



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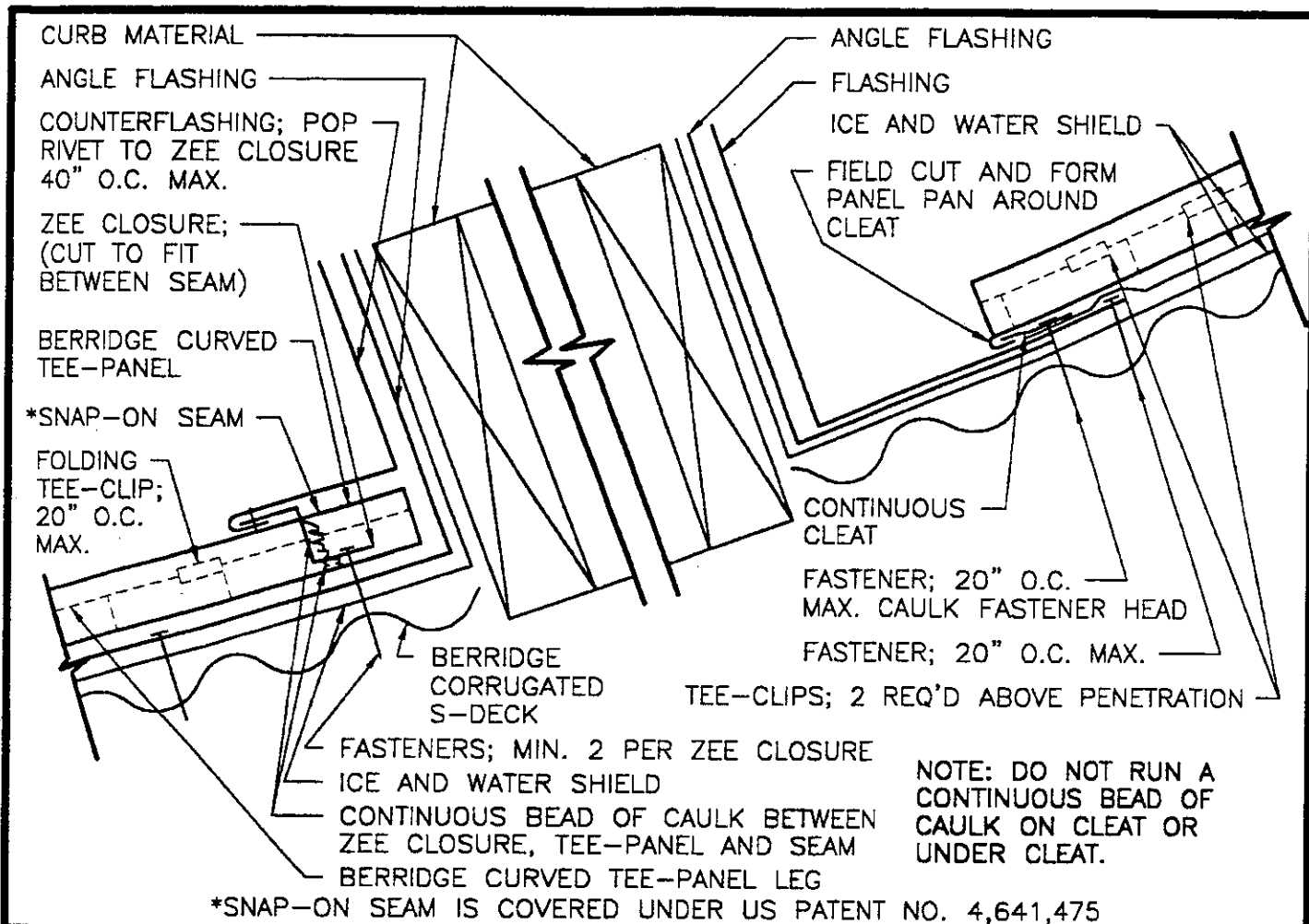
ROOF PENETRATION  
ISOMETRIC — CONVEX

**CURVED TEE-PANEL**

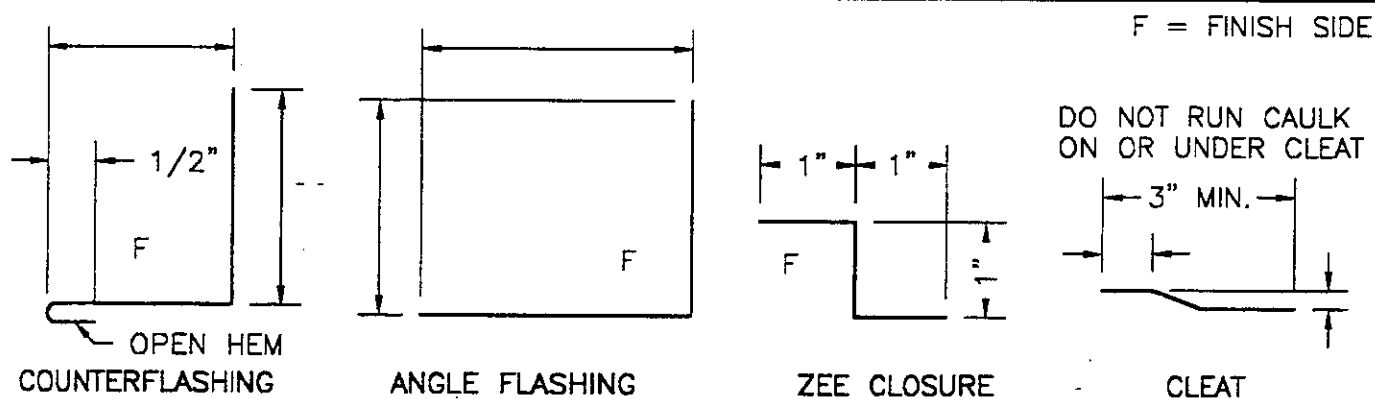
DATE: 11-01-97

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**CT-86**



1. SEE DETAIL CT-10 FOR PANEL EXPANSION NOTES AT CLEAT.
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).
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CT-87

## ROOF PENETRATION SECTION A - CONCAVE

### CURVED TEE-PANEL

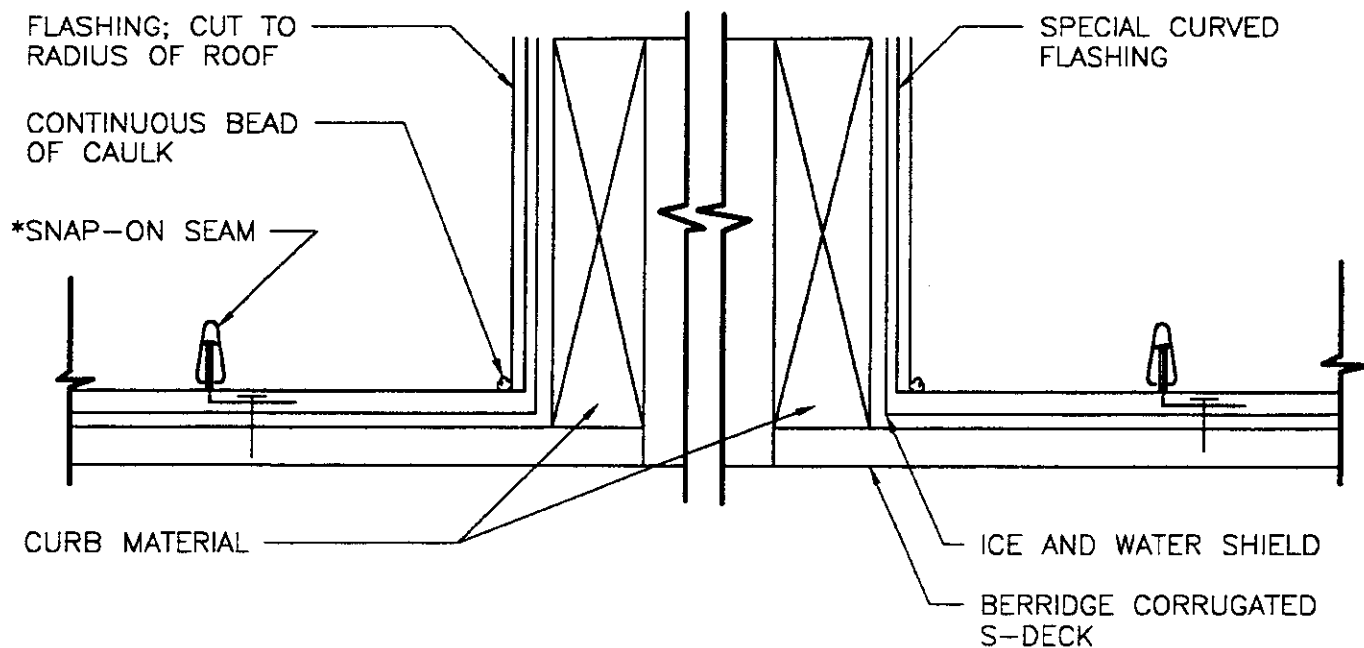
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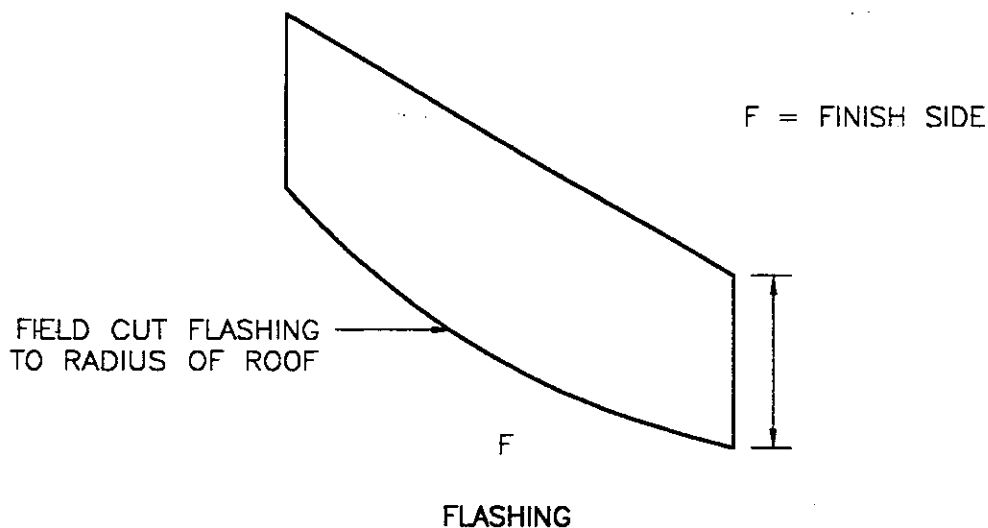
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\*SNAP-ON SEAM IS COVERED UNDER US PATENT NO. 4,641,475

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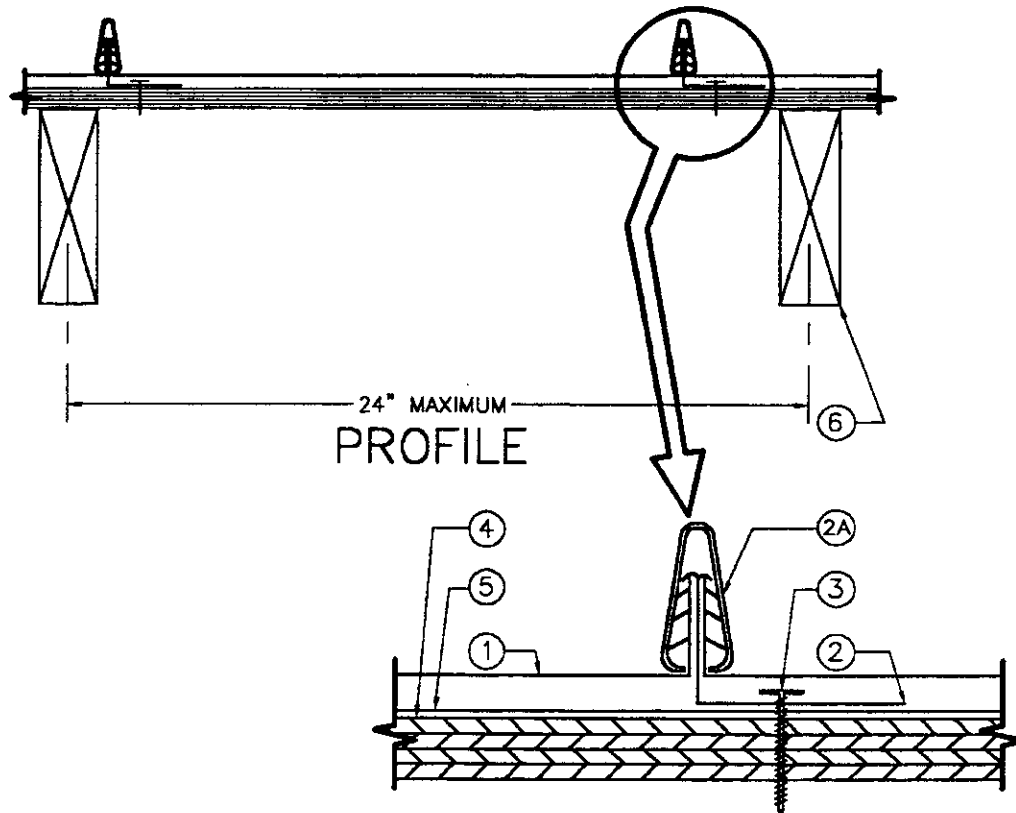


ROOF PENETRATION  
SECTION B - CONCAVE  
**CURVED TEE-PANEL**

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CT-88



PANEL - SEAM ASSEMBLY

## UL CONSTRUCTION ASSEMBLY COMPONENTS

**1. METAL ROOF DECK PANELS:** No. 24 MSG min. 40,000 psi yield strength coated steel. Panel widths to be 12-3/4" or and rib height to be 5/8". Total seam height with snap-on seam cover in place is nominal 1". Panels to be continuous length. End laps to be overlapped minimum 6". A line of sealant may be used at end and sidelaps.

Berridge Manufacturing Company - "Curved Tee-Panel"

**2. ROOF DECK FASTENERS:** (Panel Clips) one piece clip, 3/4" high x 1-1/2" wide x 1-5/8" long, formed from the same type material as that used to fabricate metal panels. Clips spaced maximum 24" O.C., located at panel sides with guide holes in bottom to accommodate screw fasteners.

Berridge Manufacturing Company - "Folding Tee-Clips"

**2A. ROOF DECK FASTENERS:** (Seam Covers) Seams covering panel ribs - are to be 3/8" wide and 7/8" high with vinyl insert (US Patent No. 4,641,475), formed from the same type and thickness material as that used to fabricate metal panels.

Berridge Manufacturing Company - "Seam Covers"

**3. FASTENERS:** Screws used to attach the panel clips to plywood to be No. 10 by 1" long pancake head wood screw with a No. 2 Phillips drive. One screw per clip. Screws used to attach plywood substructure to wood trusses of joist to be deformed shank nails. When light ga. Structural Steel joists are used, screws to be No. 12 x 1-5/8" long with Phillips drive head. Spacing of screws to be 6" O.C. at plywood ends and 12" O.C. at interior joints.

**4. SUBSTRUCTURE:** (Plywood) Plywood decking to be a nominal 5/8" thick, exposure sheathing span C-D, 40/20 plywood. All butt joints are to be sealed with tape and/or caulked.

**5. UNDERLAYMENT:** Ice and Water Shield

**6. JOISTS:** Joist spaced at 2'-0" O.C. may be one of the following:

- A. Nom. 2 x 6 wood joists No. 2 or better.
- B. Nom. 2 x 4 wood when used on a top chord of a wood truss, No. 2 or better.
- C. Light gauge structural steel framing with the member against the plywood to be a minimum No. 22 MSG coated steel.

FOR ADDITIONAL INFORMATION, PLEASE REFER TO THE UNDERWRITERS LABORATORY, INC. BUILDING MATERIALS DIRECTORY.

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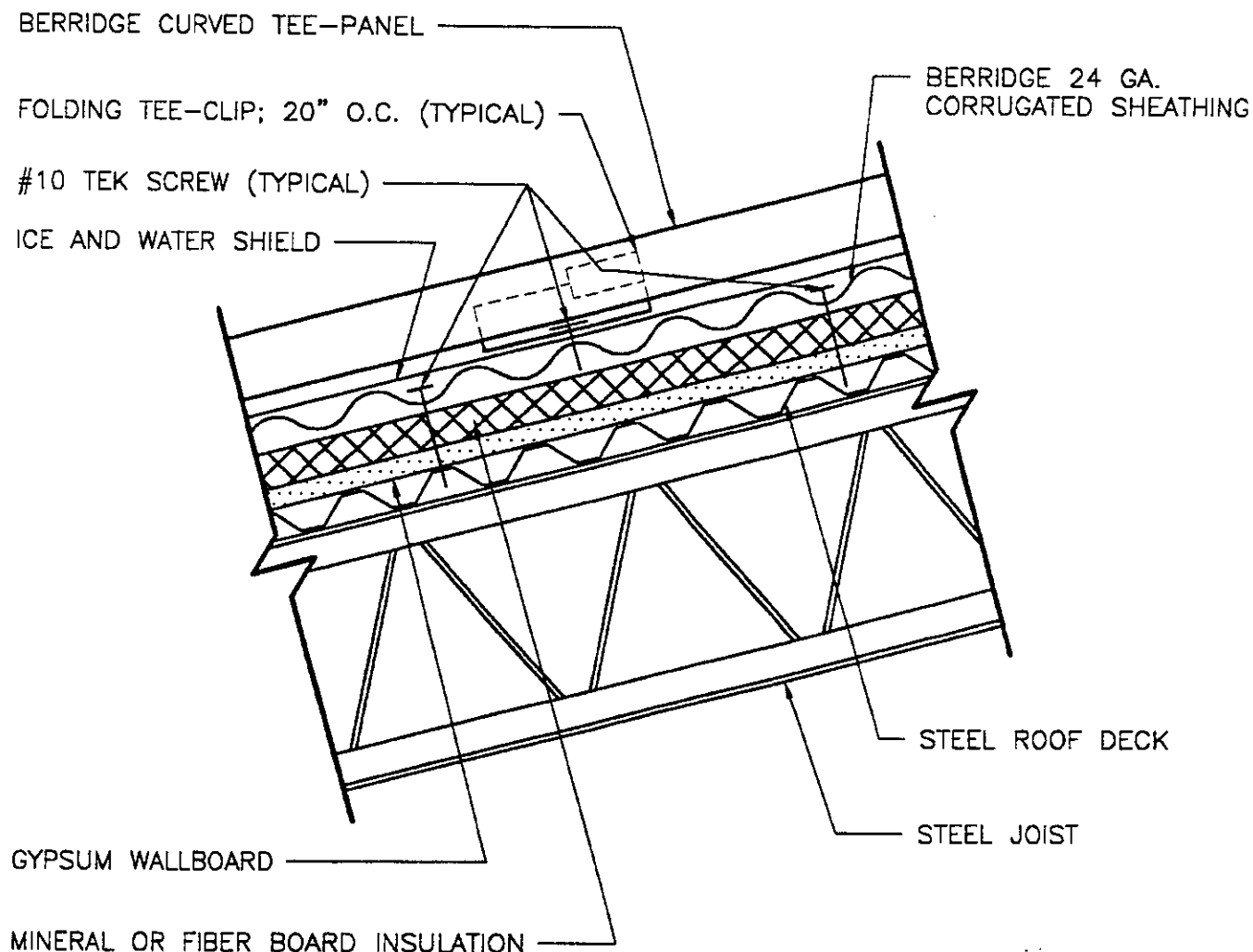
UL 90 APPROVED  
CURVED TEE-PANEL ASSEMBLY  
CONSTRUCTION NO. 296

**CURVED TEE-PANEL**

DATE: 11-01-97

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CT-90



1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE CURVED TEE-PANEL, IN ORDER TO MAKE POSITIVE ATTACHMENT, MUST BE ATTACHED TO A CORRUGATED SUBSTRATUM (IF THE INSULATION SYSTEM HAS NO NAILABLE SURFACE). THE CORRUGATED SUBSTRATUM IS TO BE MOUNTED DIRECTLY TO THE INSULATION SYSTEM WITH FASTENERS FASTENED THROUGH INTO THE STRUCTURAL STEEL DECK.
2. THIS ASSEMBLY QUALIFIES FOR THE FOLLOWING UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NO. P224, P225, P230, P237, P508, P510, AND P227 USING CELLULAR GLASS BLOCK IN LIEU OF MINERAL INSULATION BOARD.
3. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.

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UL FIRE RESISTANCE  
ROOF ASSEMBLY

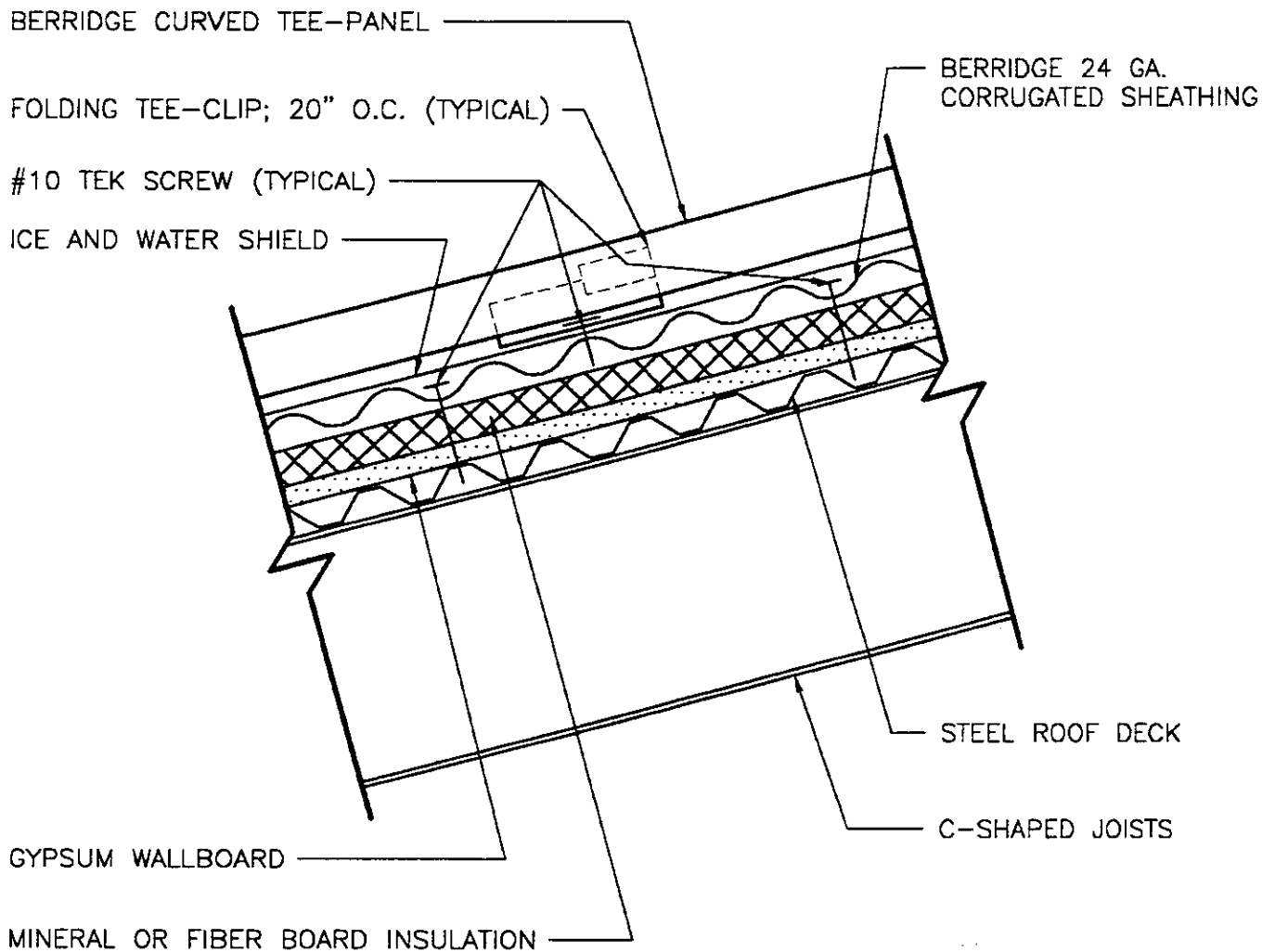
**CURVED TEE-PANEL**

**BERRIDGE**



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Manufacturing  
Company**

*Roofs of Distinction*



1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE CURVED TEE-PANEL, IN ORDER TO MAKE POSITIVE ATTACHMENT, MUST BE ATTACHED TO A CORRUGATED SUBSTRATUM (IF THE INSULATION SYSTEM HAS NO NAILABLE SURFACE). THE CORRUGATED SUBSTRATUM IS TO BE MOUNTED DIRECTLY TO THE INSULATION SYSTEM WITH FASTENERS FASTENED THROUGH INTO THE STRUCTURAL STEEL DECK.
2. THIS ASSEMBLY QUALIFIES FOR THE UL FIRE-RESISTANT ROOF ASSEMBLY: P512.
3. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.

BERRIDGE CURVED TEE-PANEL

FOLDING TEE-CLIP; 20" O.C. (TYPICAL)

#10 TEK SCREW (TYPICAL)

ICE AND WATER SHIELD

BERRIDGE 24 GA.  
CORRUGATED SHEATHING

SPRAYED ON CEMENTIOUS MIXTURE

GYPSUM BOARD, AND/OR  
MINERAL OR FIBER BOARD INSULATION

STEEL ROOF DECK

STEEL JOIST

1. IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE CURVED TEE-PANEL, IN ORDER TO MAKE POSITIVE ATTACHMENT, MUST BE ATTACHED TO A CORRUGATED SUBSTRATUM (IF THE INSULATION SYSTEM HAS NO NAILABLE SURFACE). THE CORRUGATED SUBSTRATUM IS TO BE MOUNTED DIRECTLY TO THE INSULATION SYSTEM WITH FASTENERS FASTENED THROUGH INTO THE STRUCTURAL STEEL DECK.
2. THIS ASSEMBLY QUALIFIES FOR THE FOLLOWING UL FIRE RESISTANT ROOF ASSEMBLIES: UL DESIGN NO. P701, P711, P713, P715, P717, P814, P803, P815, P819, AND P821 ONLY USING SPAYED ON FIBER IN LIEU OF CEMENTIOUS MIXTURE.
3. ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.

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UL FIRE RESISTANCE  
ROOF ASSEMBLY

**CURVED TEE-PANEL**

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#### A. WARNING

1. DO NOT USE ANY TYPE OF ROSIN PAPER UNDER ANY BERRIDGE METAL PRODUCT.

#### B. ROOF SURFACE PREPARATION

1. CLEAN ROOF SURFACE OF ALL OBJECTS WHICH MAY PUNCTURE OR TEAR UNDERLAYMENT.
2. DAILY INSPECT AND CLEAN ROOF SURFACE DURING INSTALLATION OF UNDERLAYMENTS AND OR BERRIDGE METAL PRODUCTS.

#### C. # 30 FELT UNDERLAYMENT

1. USE A MINIMUM # 30 FELT UNDERLAYMENT AND COVER THE ENTIRE ROOF DECK. ADDITIONAL # 30 FELT UNDERLAYMENT WILL BE REQUIRED AT FLASHING CONDITIONS AS SHOWN IN THE FOLLOWING DETAILS.
2. A DOUBLE LAYER OF # 30 FELT IS RECOMMENDED TO COVER THE ENTIRE ROOF DECK WHEN ROOF SLOPES ARE 3:12 OR LESS.

#### D. ICE AND WATERSHIELD

1. GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED AS A SUBSTITUTE FOR # 30 FELT UNDERLAYMENT.
2. GRACE ICE AND WATERSHIELD OR EQUAL IS RECOMMENDED AS UNDERLAYMENT FOR ALL CURVED SURFACES WHICH BERRIDGE PRODUCTS ARE TO BE APPLIED TO.
3. DUE TO # 30 FELT UNDERLAYMENTS 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.

#### E. INSTALLATION

1. INSTALL UNDERLAYMENT PARALLEL TO EAVE LINE STARTING AT EAVE.
2. CERTAIN FLASHING CONDITIONS WILL REQUIRE UNDERLAYMENT INSTALLATION PRIOR TO COVERING ENTIRE ROOF, SUCH AS VALLEY. REVIEW DETAILS TO VERIFY FOR YOUR PROJECT.
3. INSULATE BETWEEN BERRIDGE MANUFACTURING PRODUCTS AND WOOD, WOOD BLOCKING AND DISSIMILAR MATERIALS WITH UNDERLAYMENT.
4. UNDERLAYMENT MUST BE SMOOTH AND FREE FROM WRINKLES.
5. TEARS AND PUNCTURES MUST BE REPAIRED WITH ADDITIONAL UNDERLAYMENT.
6. UNDERLAYMENT MUST NOT BE ALLOWED TO DRY OUT DUE TO EXTENDED EXPOSURE TO THE ELEMENTS. DRIED OUT UNDERLAYMENT MUST BE REPLACED.
7. DO NOT INSTALL BERRIDGE PRODUCTS OVER INADEQUATE OR IMPROPER UNDERLAYMENT.



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## INSTALLATION INSTRUCTIONS

# UNDERLAYMENT

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8. VERIFY CORRECT METHOD OF INSTALLING ICE AND WATERSHIELD WITH ICE AND WATERSHIELD MANUFACTURE.

#### F. FASTENERS

1. USE A GALVANIZED OR COATED FASTENER.
2. USE BERRIDGE COATED FELT CAPS.
3. DO NOT USE CARBON OR COMMON STEEL FASTENERS.
4. DO NOT USE "TIN CAPS" OR ONE-PIECE NAIL CAPS.
5. USE OF IMPROPER FASTENERS AND OR FELT CAPS WILL CAUSE READ-THROUGH AND OR CORROSION OF BERRIDGE PRODUCTS.

#### G. LAPS

1. LAP # 30 FELT UNDERLAYMENT 6" AT HEAD AND 36" AT END TO END.
2. LAP ICE AND WATERSHIELD AS PER MANUFACTURERS SPECIFICATIONS.
3. ALWAYS LAP UNDERLAYMENT WITH SLOPE OF ROOF.
4. INSTALL UNDERLAYMENT PARALLEL WITH EAVE LINE. START INSTALLATION AT EAVE AND CONTINUE UP ROOF SLOPE.

ALL ARCHITECTURAL PRODUCTS REQUIRE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING.

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 PANEL SYSTEMS.

**NOTE: ALL PRODUCTS, SPECIFICATIONS, DETAILS, AND INSTRUCTIONS SUBJECT TO CHANGE WITHOUT NOTICE. FOR SPECIFIC PROJECT DETAILS, CONTACT BERRIDGE.**

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## INSTALLATION INSTRUCTIONS

## UNDERLAYMENT



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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.

# USE OF ROSIN PAPER WITH BUILDING UNDERLAYMENTS AND BERRIDGE METAL ROOF PANELS

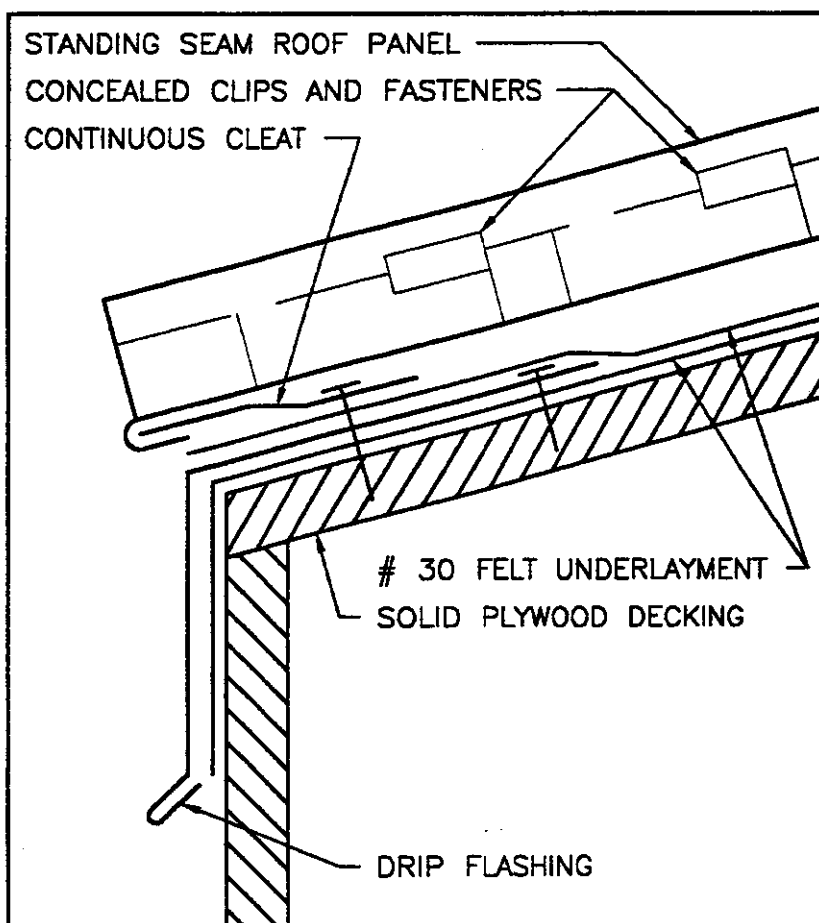
BERRIDGE RECOMMENDS THAT ROSIN PAPER NOT BE USED AS AN UNDERLAYMENT SEPARATION SHEET BETWEEN ROOFING UNDERLAYMENT AND BERRIDGE METAL ROOFING PANELS.

THE ORIGINAL PURPOSE FOR USING ROSIN PAPER AS A SEPARATION SHEET WAS TO PREVENT ROOFING FELT PAPER FROM BONDING TO METAL PANELS. IT HAS BEEN OUR EXPERIENCE, HOWEVER, THAT TODAY'S LIGHTER WEIGHT ASPHALT-IMPREGNATED ROOFING FELT PAPER DOES NOT BOND TO THE UNDERSIDE OF OUR METAL ROOF PANELS.

ANOTHER IMPORTANT FACTOR WHICH MAKES ROSIN PAPER UNNECESSARY IS THE FACT THAT ALL BERRIDGE PRODUCTS HAVE A WASH COAT OR CLEAR COAT ON THE UNDERSIDE OF THE METAL COIL, FLAT SHEET OR PANEL PRODUCT WHICH PREVENTS BONDING TO UNDERLAYMENT. THIS COATING IS FACTORY APPLIED ON THE BERRIDGE CONTINUOUS COIL COATING LINES.

MORE IMPORTANTLY, WE HAVE SEEN A NUMBER OF EXAMPLES OF PANEL FAILURE STEMMING FROM RUST-THROUGH FROM THE UNDERSIDE, CAUSED BY MOISTURE RETENTION OF ROSIN PAPER UNDERLAYMENT.

ALTHOUGH THE ROSIN PAPER MAY NOT BE THE ORIGINAL CAUSE OF MOISTURE CONDENSATION, IT IS A POROUS MATERIAL WHICH WILL RETAIN MOISTURE AND THUS SHOULD NOT BE USED BENEATH METAL PANELS.



SECTION VIEW OF TYPICAL STANDING SEAM PANEL APPLICATION OVER SOLID DECKING WITH NUMBER 30 ROOFING FELT UNDERLAYMENT.



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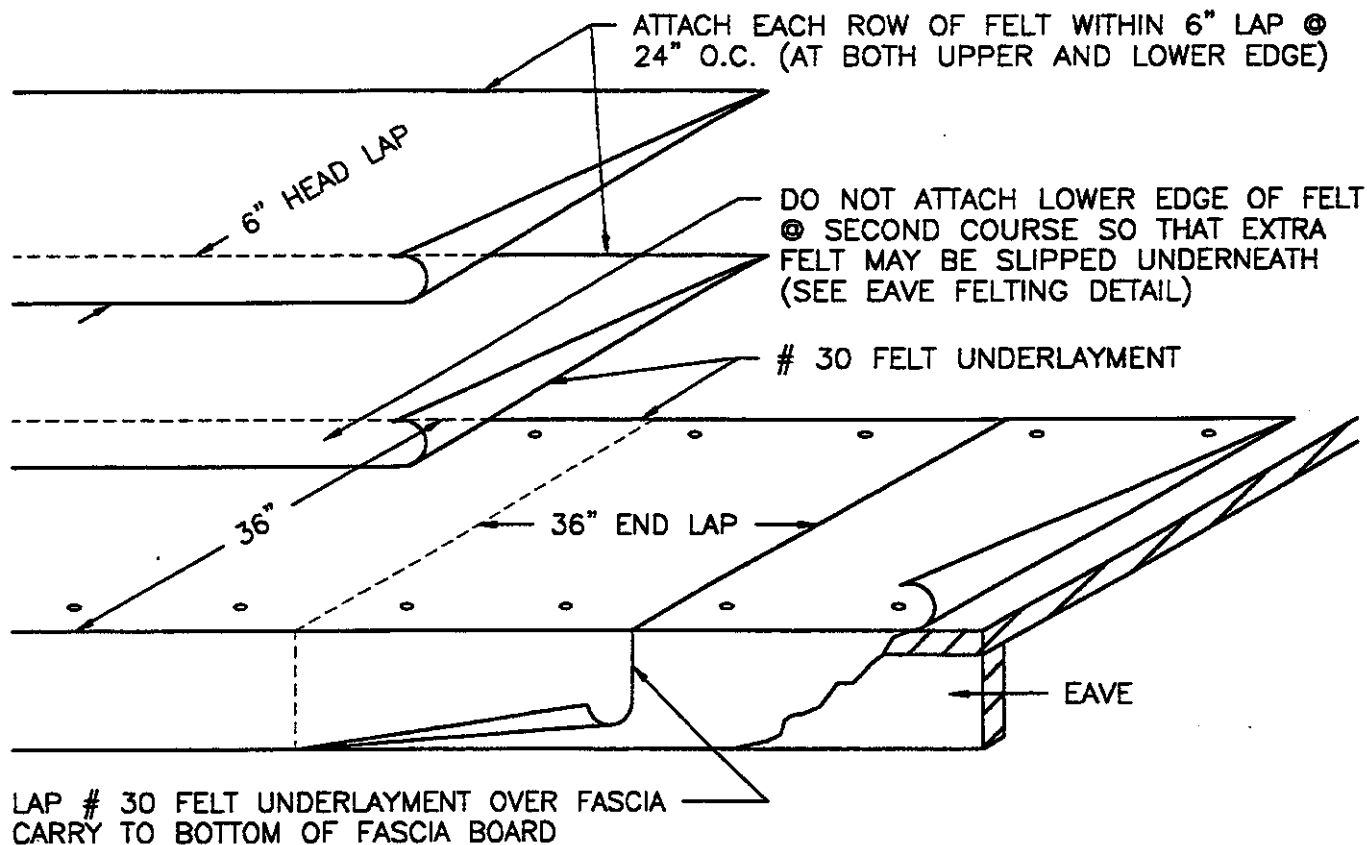
INSTALLATION  
INSTRUCTIONS

**UNDERLAYMENT**

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1. CLEAN ROOF SURFACE OF ALL OBJECTS WHICH MAY PUNCTURE OR TEAR FELT UNDERLAYMENT.
2. ATTACH FELT UNDERLAYMENT TO DECK BELOW USING COATED FELT CAPS. FASTENERS MUST BE TOTALLY FLUSH WITH SUBSTRATE. DO NOT USE ONE PIECE NAIL CAPS, AS THESE WILL "READ THROUGH" THE SURFACE.
3. DO NOT FASTEN LOWER EDGE OF FELT @ SECOND COURSE (SEE ABOVE ILLUSTRATION).
4. ALWAYS RUN FELT UNDERLAYMENT HORIZONTALLY STARTING @ THE EAVE AND LAP SHINGLE FASHION.
5. NEVER INSTALL BERRIDGE PRODUCTS OVER FELT UNDERLAYMENT THAT IS NOT LAID HORIZONTAL, FLAT, SMOOTH AND FREE FROM PUNCTURES AND TEARS.
6. DO NOT APPLY PANELS OVER DRY OR BRITTLE FELT (A CONDITION CAUSED BY EXTENDED EXPOSURE TO THE ELEMENTS).
7. DO NOT USE RED ROSIN PAPER UNDER ANY BERRIDGE METAL PRODUCT.

  
 1 PC. NAIL CAP  
 (DO NOT USE)


  
 BERRIDGE COATED FELT CAP      GALVANIZED OR COATED FASTENER  
 2 PC. NAIL CAP  
 (USE THIS)



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## STANDARD APPLICATION PROCEDURES

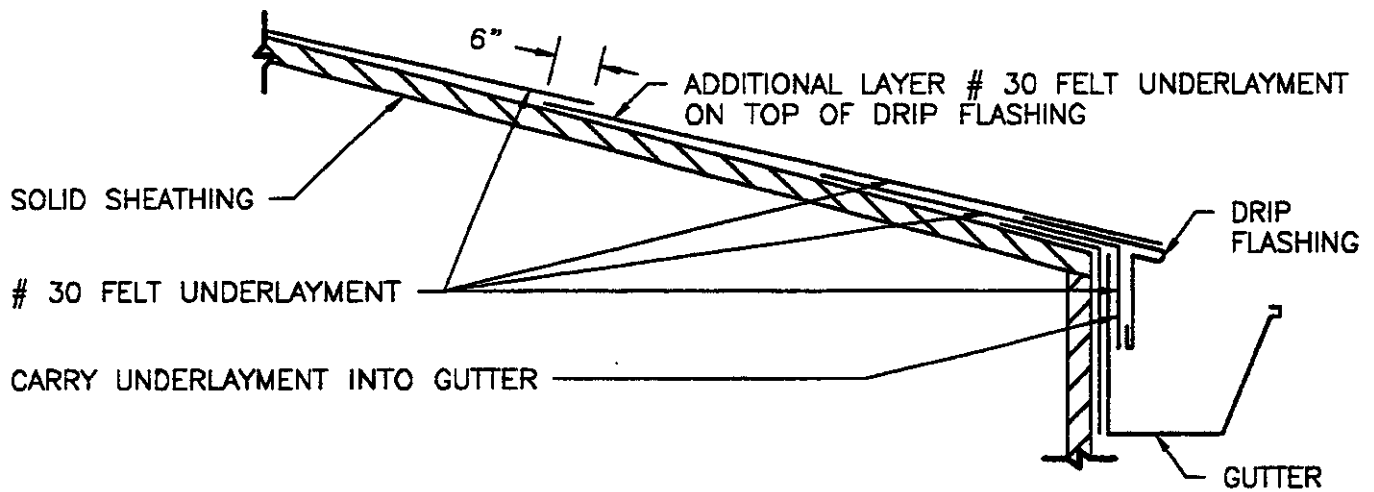
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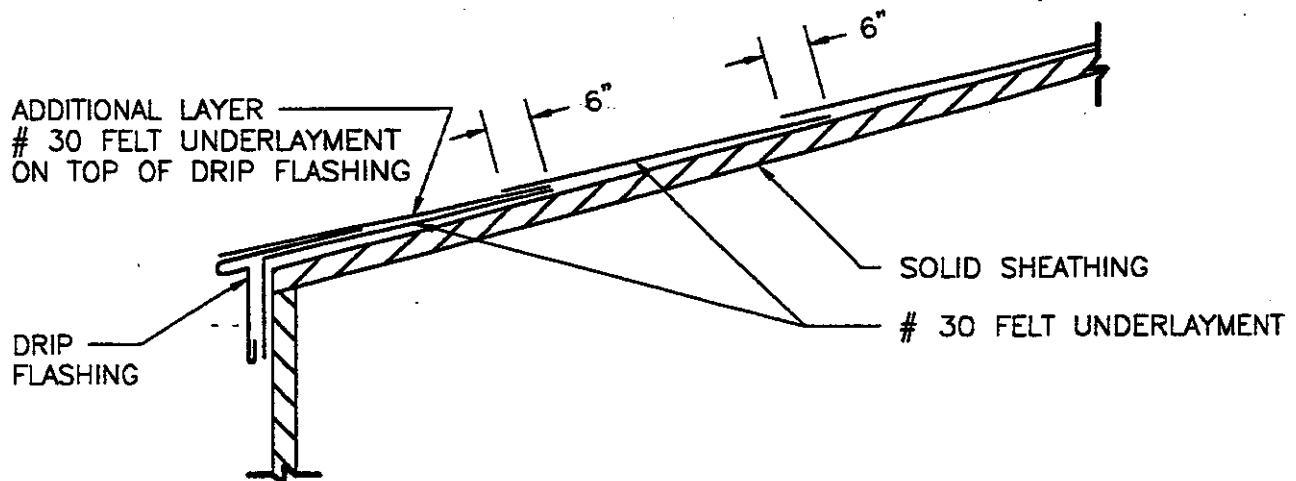
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GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## EAVE WITH GUTTER

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## EAVE



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EAVE WITH GUTTER  
EAVE

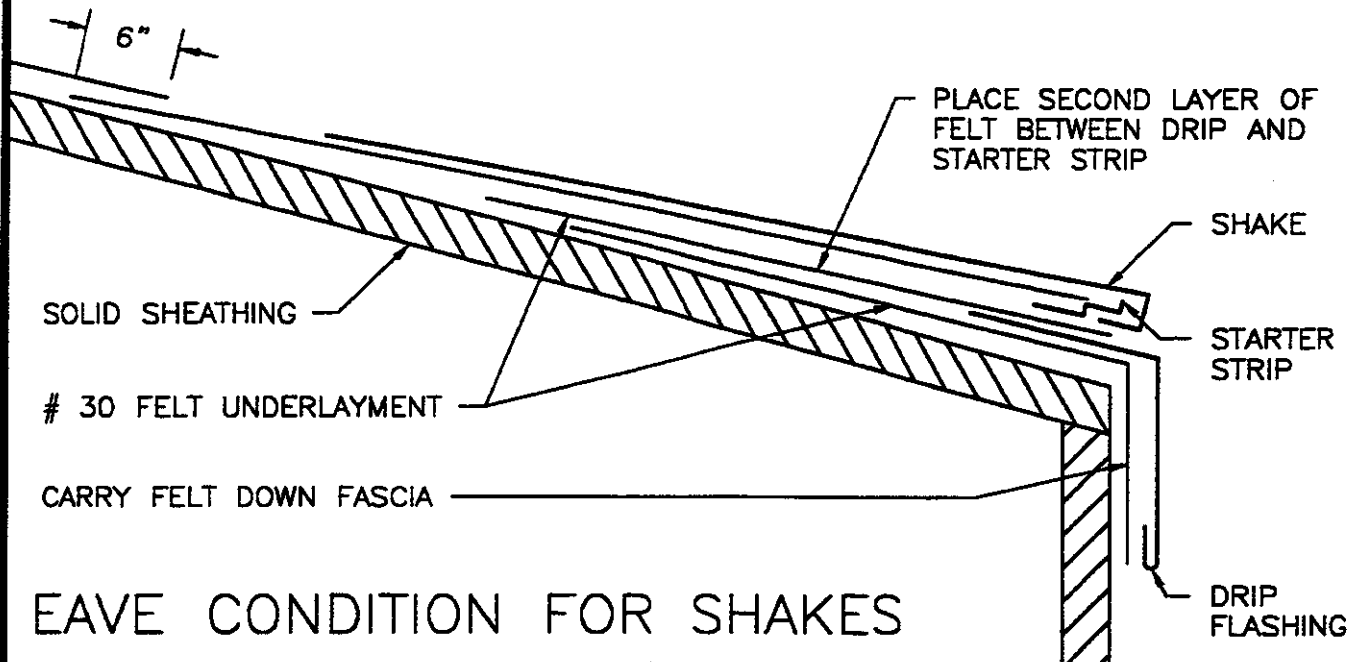
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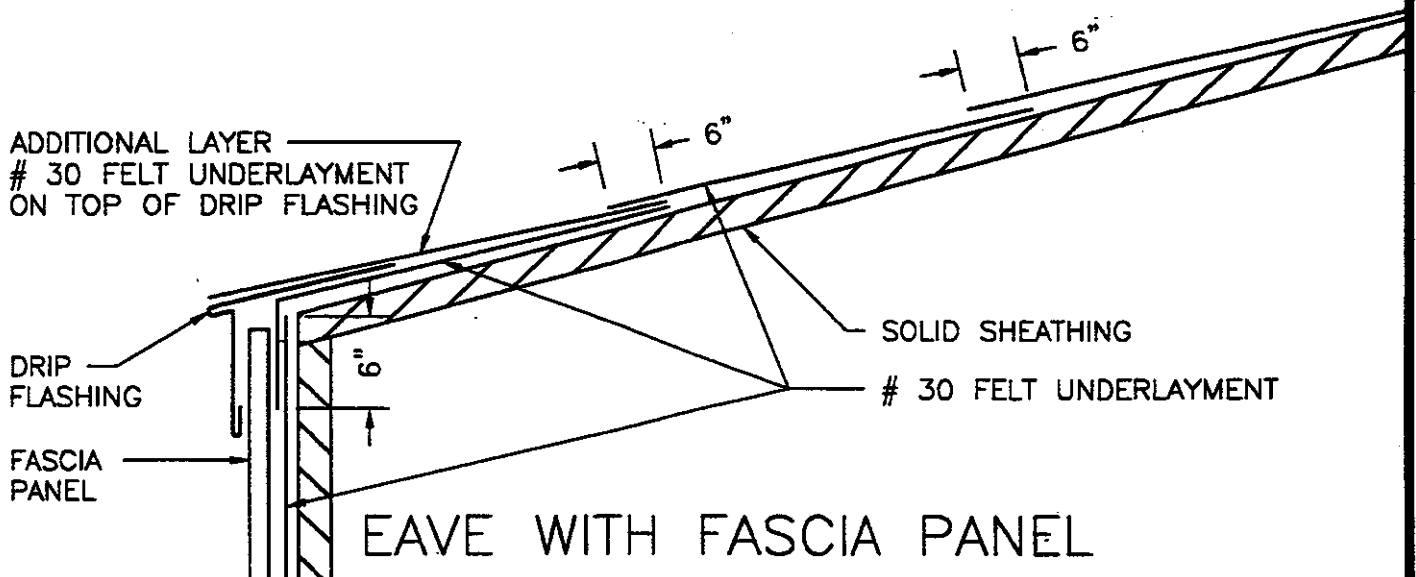
**U-10**

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## EAVE CONDITION FOR SHAKES

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## EAVE WITH FASCIA PANEL

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EAVE WITH SHAKES  
EAVE WITH FASCIA

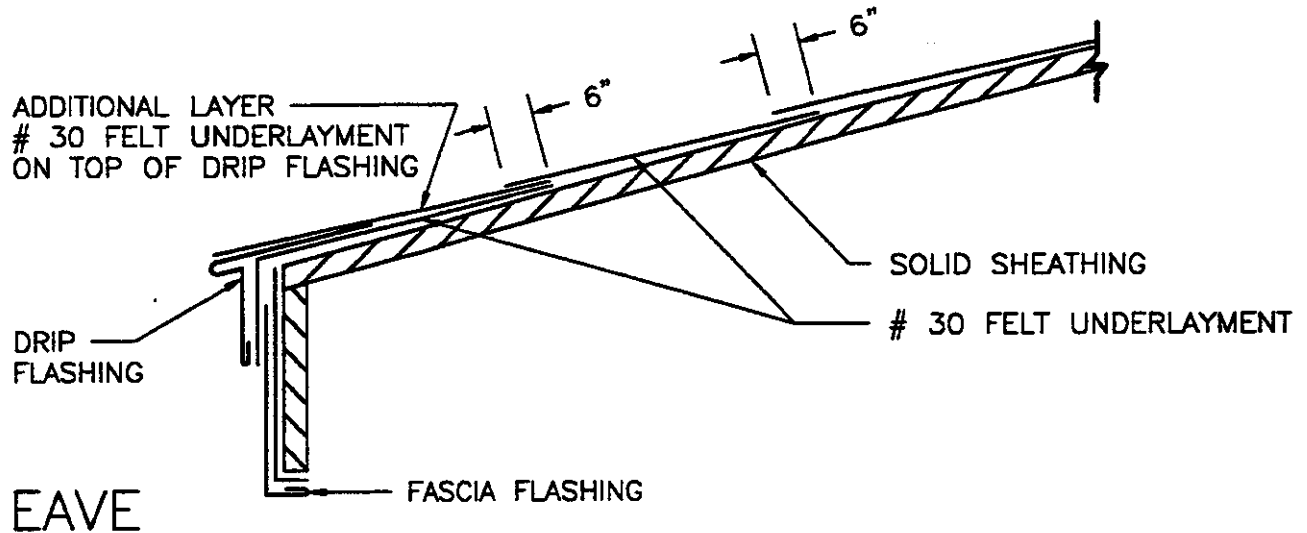
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GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



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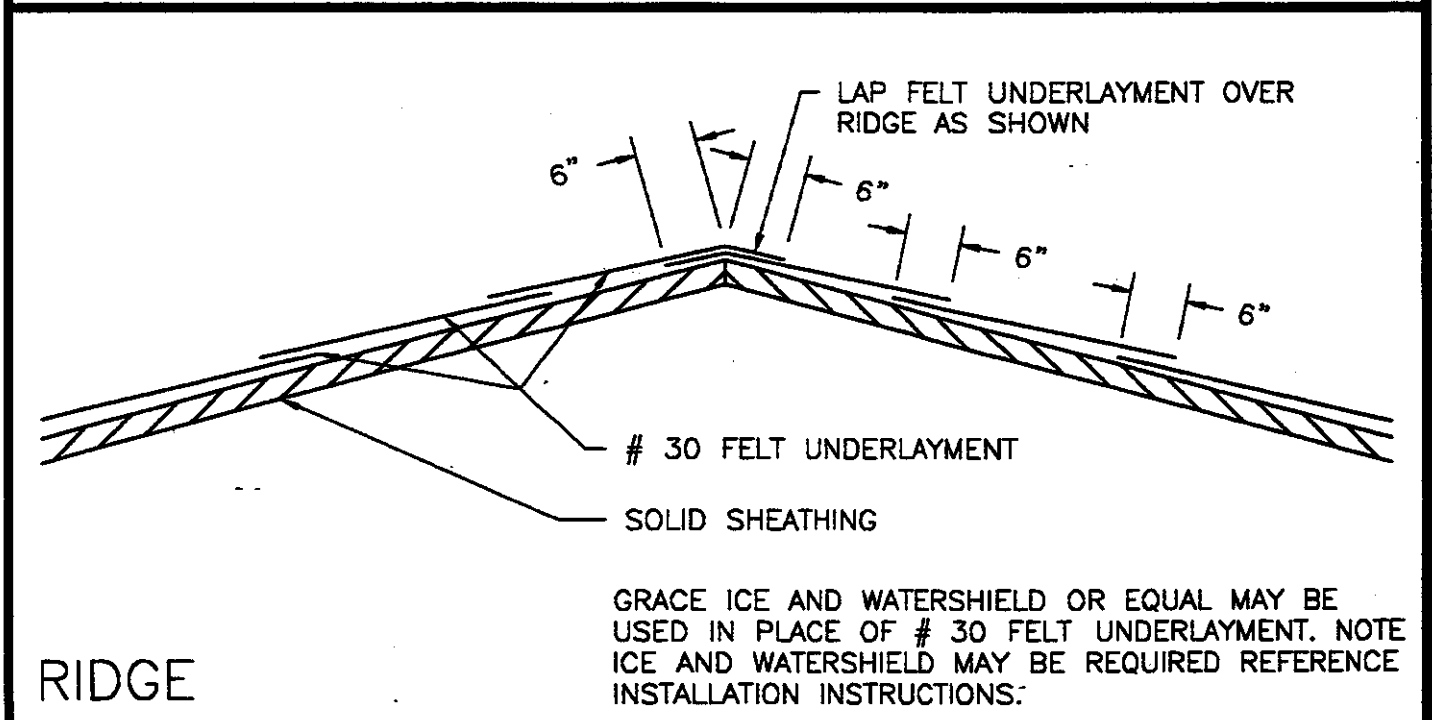
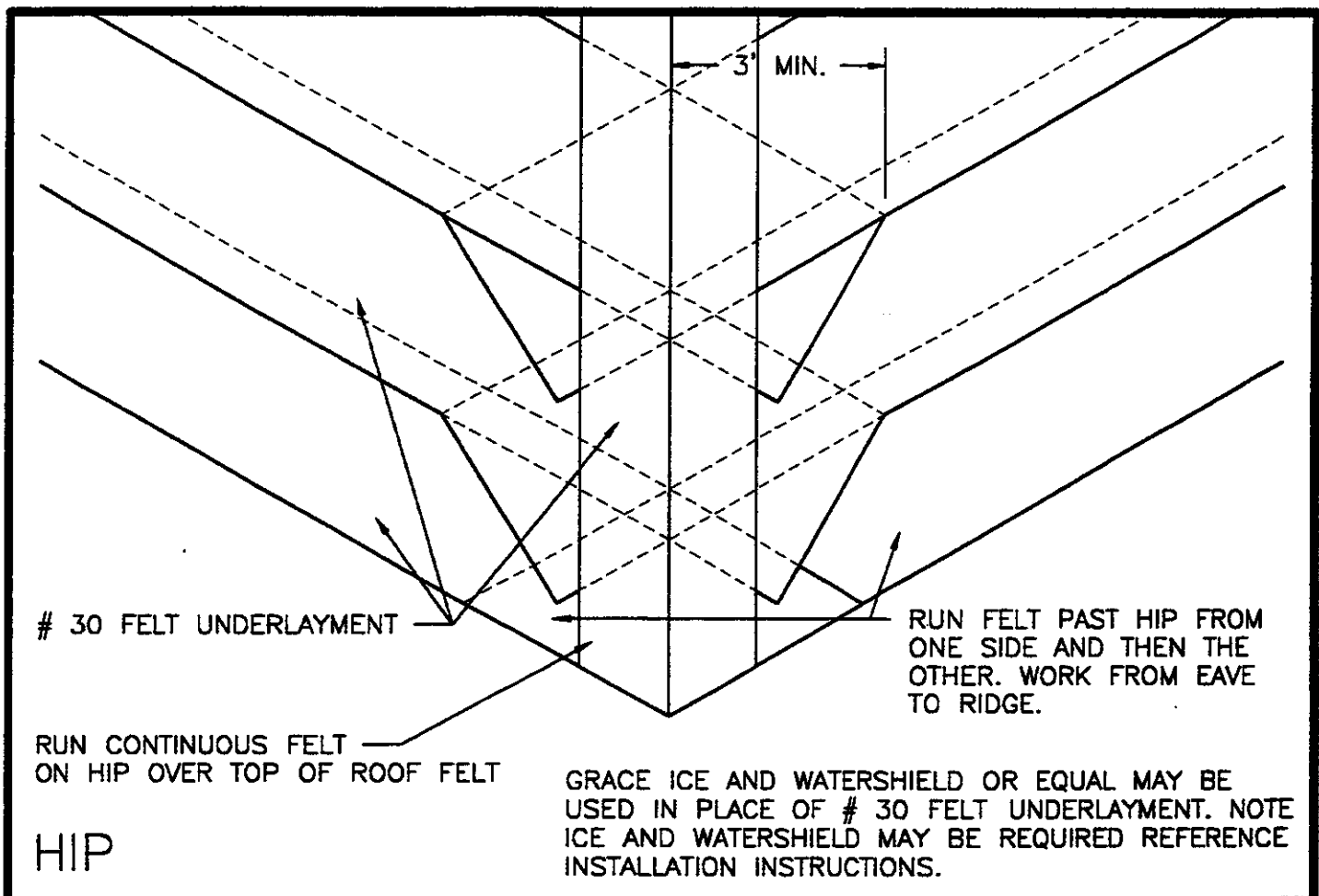
EAVE

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HIP  
RIDGE

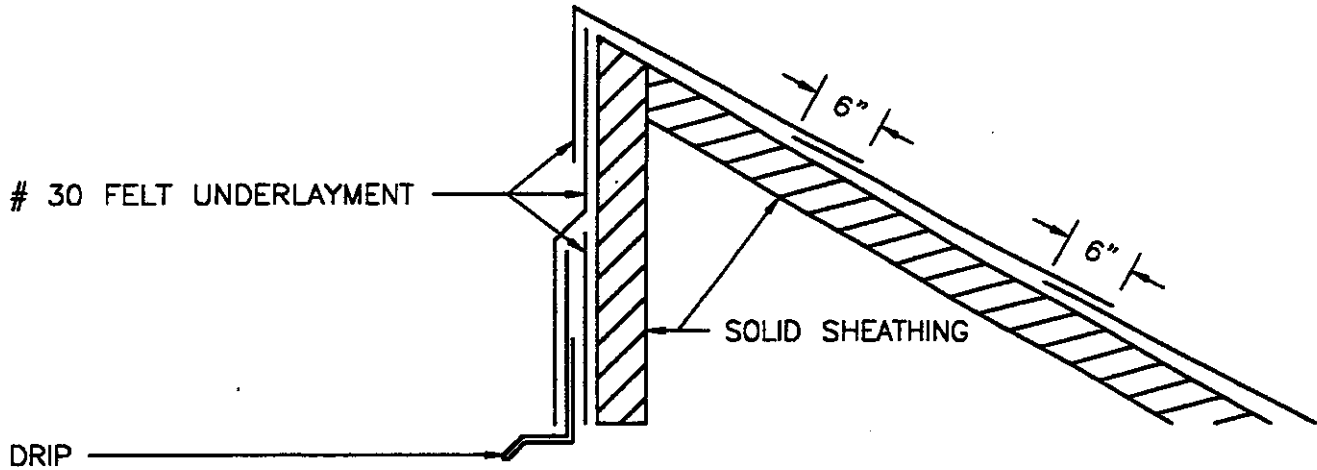
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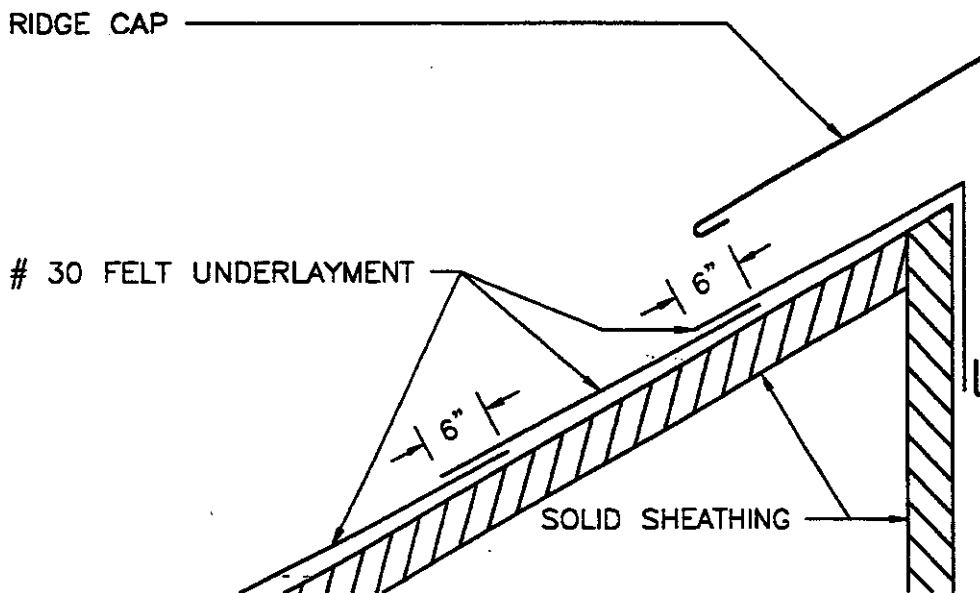
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GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## SHED RIDGE WITH WALL PANEL



## SHED RIDGE

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.

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SHED RIDGE WITH WALL PANEL  
SHED RIDGE

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# UNDERLAYMENT

BERRIDGE



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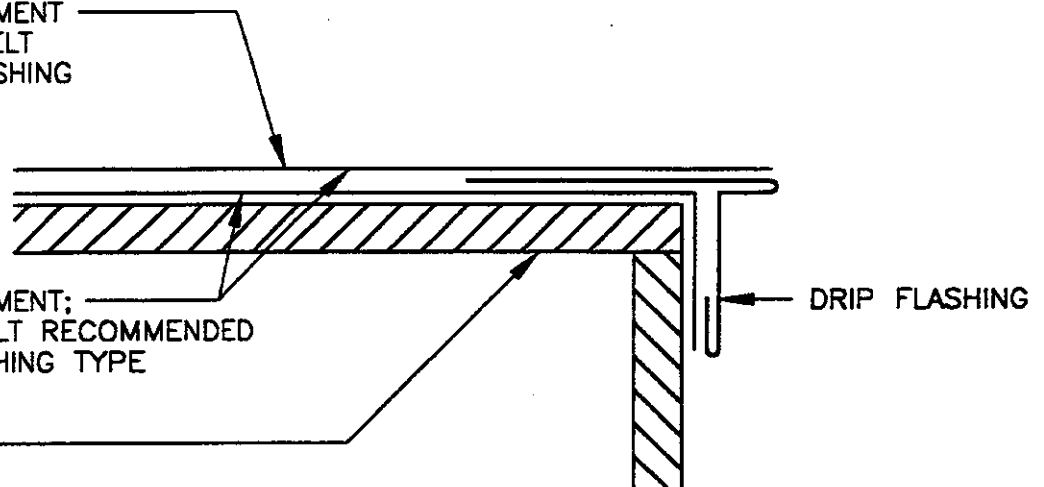
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# 30 FELT UNDERLAYMENT  
RUN (1) LAYER OF FELT  
ON TOP OF DRIP FLASHING  
PARALLEL TO GABLE

# 30 FELT UNDERLAYMENT;  
DOUBLE LAYER OF FELT RECOMMENDED  
REGARDLESS OF FLASHING TYPE

SOLID SHEATHING



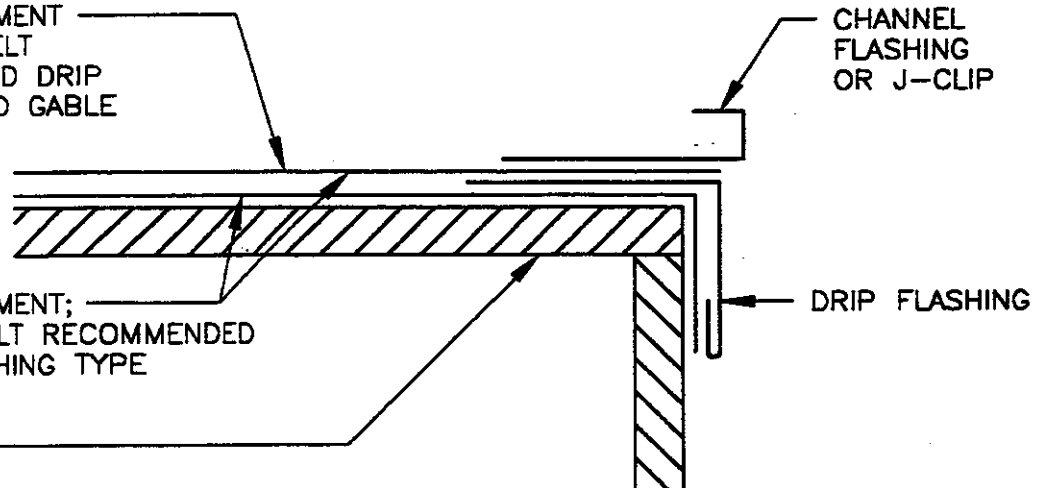
GRACE ICE AND WATERSHIELD OR EQUAL MAY BE  
USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE  
ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE  
INSTALLATION INSTRUCTIONS.

GABLE

# 30 FELT UNDERLAYMENT  
RUN (1) LAYER OF FELT  
BETWEEN CHANNEL AND DRIP  
FLASHING PARALLEL TO GABLE

# 30 FELT UNDERLAYMENT;  
DOUBLE LAYER OF FELT RECOMMENDED  
REGARDLESS OF FLASHING TYPE

SOLID SHEATHING



GRACE ICE AND WATERSHIELD OR EQUAL MAY BE  
USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE  
ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE  
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GABLE



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GABLE

**UNDERLAYMENT**

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# 30 FELT UNDERLAYMENT  
RUN (1) LAYER OF FELT  
ON TOP OF DRIP FLASHING  
PARALLEL TO GABLE

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE  
USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE  
ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE  
INSTALLATION INSTRUCTIONS.

# 30 FELT UNDERLAYMENT;  
DOUBLE LAYER OF FELT RECOMMENDED  
REGARDLESS OF FLASHING TYPE

SOLID SHEATHING

# 30 FELT UNDERLAYMENT

DRIP  
FLASHING

DRIP  
FLASHING

## GABLE WITH WALL PANEL

# 30 FELT UNDERLAYMENT  
RUN (1) LAYER OF FELT  
ON TOP OF DRIP FLASHING  
PARALLEL TO GABLE

# 30 FELT UNDERLAYMENT;  
DOUBLE LAYER OF FELT RECOMMENDED  
REGARDLESS OF FLASHING TYPE

SOLID SHEATHING

# 30 FELT UNDERLAYMENT

FLASHING

DRIP  
FLASHING

## GABLE

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE  
USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE  
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GABLE WITH WALL PANEL  
GABLE

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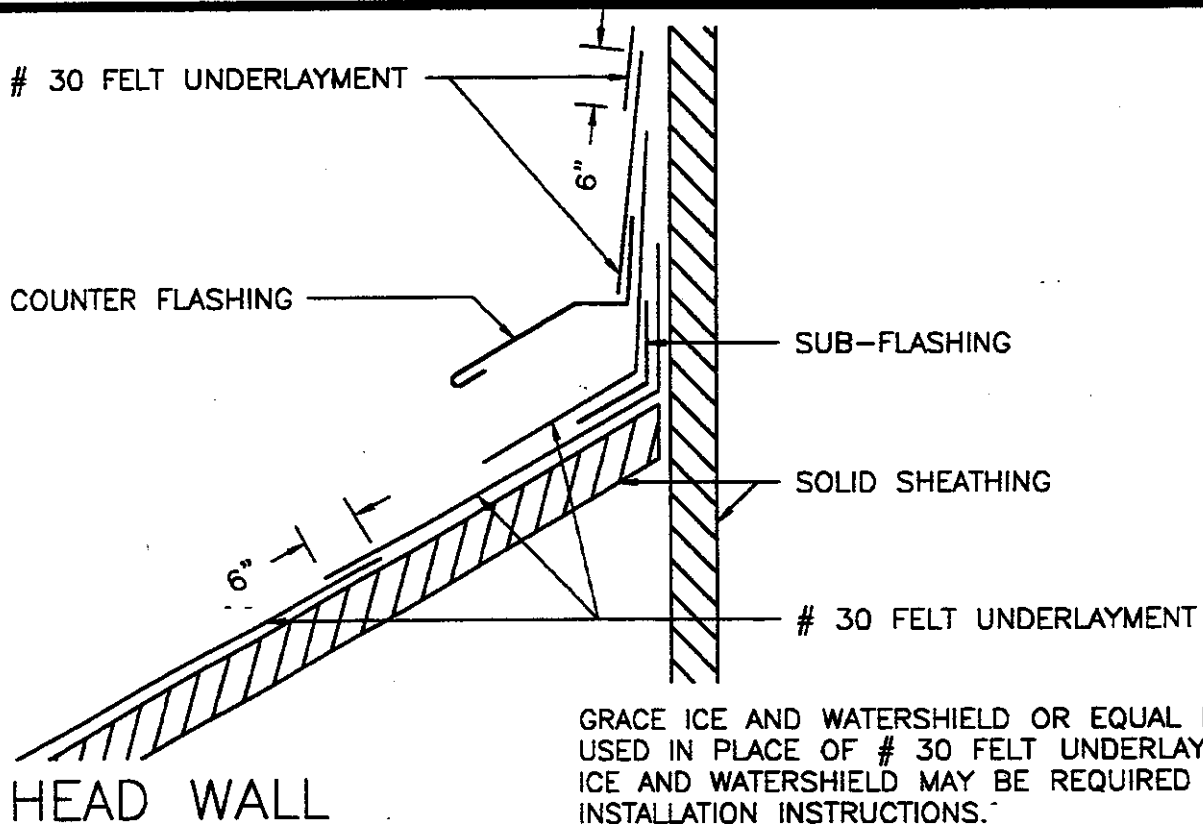
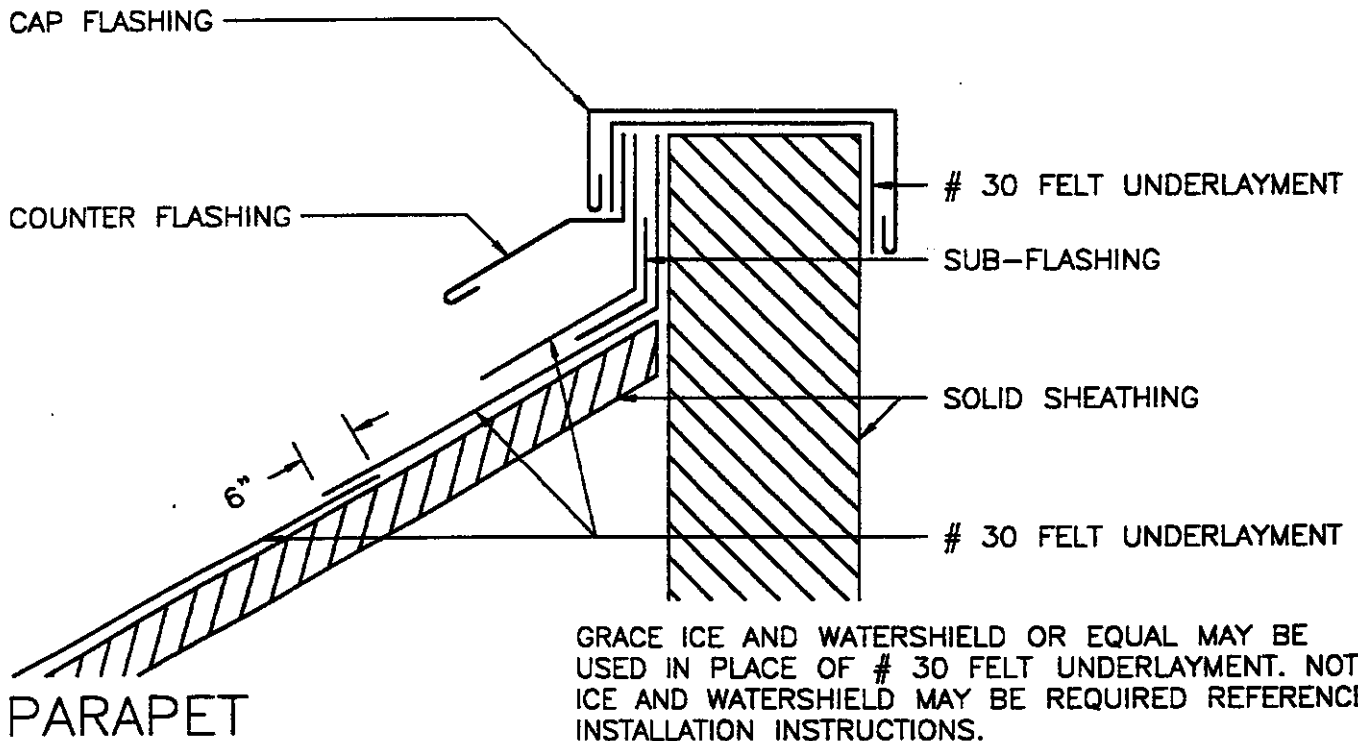
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BERRIDGE

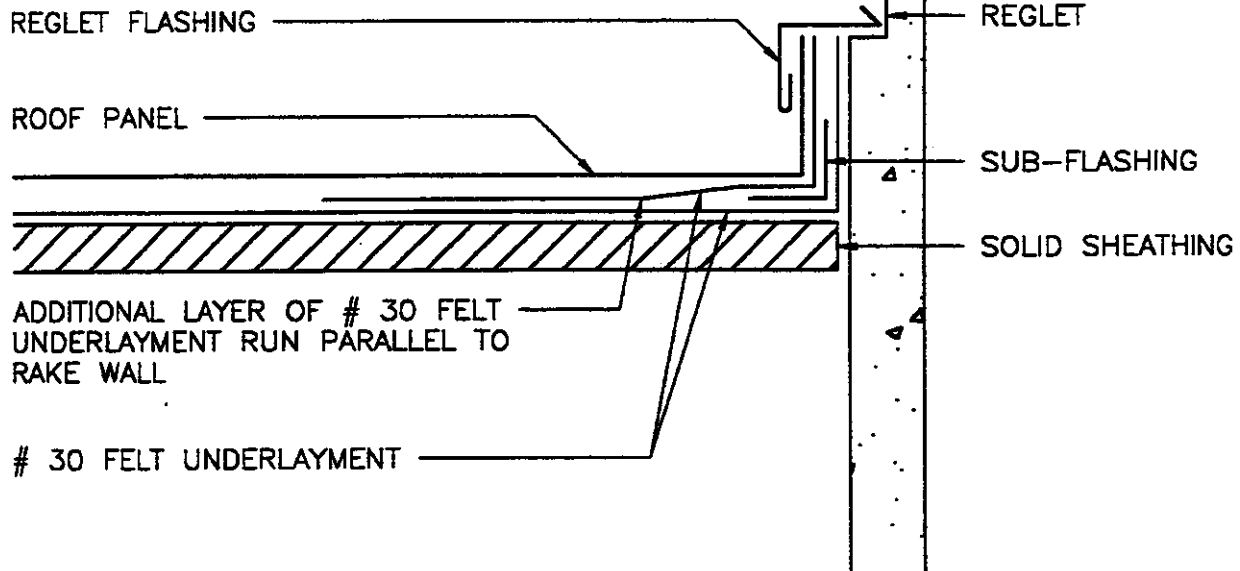


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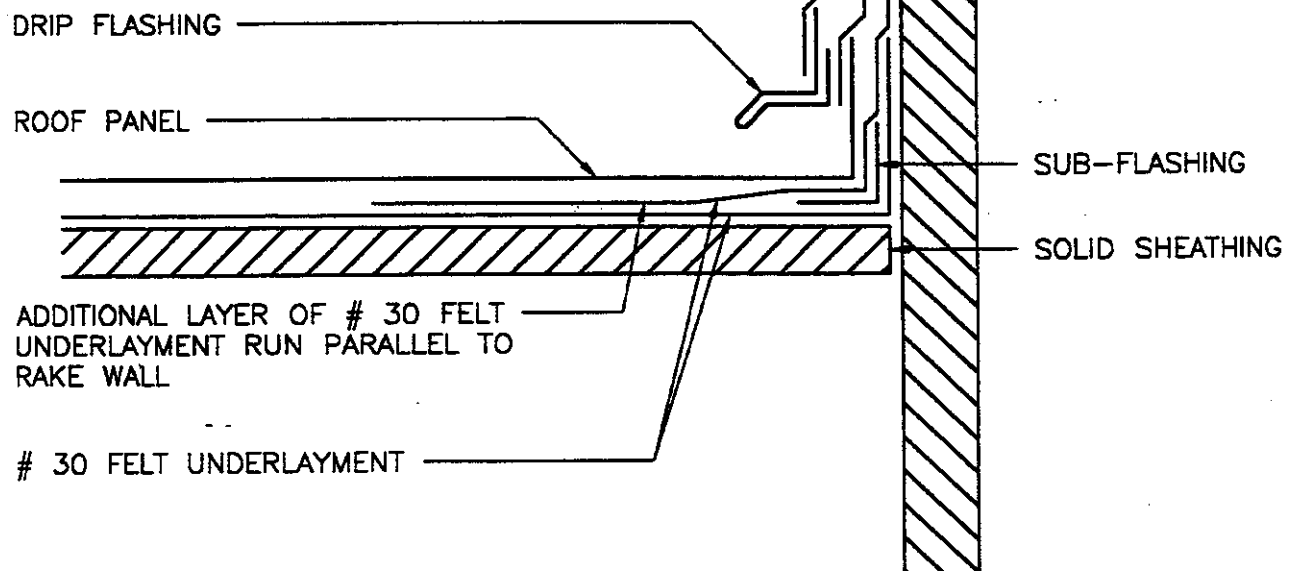


GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## RAKE WALL WITH REGLET

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## RAKE WALL WITH WALL PANEL



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RAKE WALL WITH REGLET  
RAKE WALL WITH WALL PANEL

# UNDERLAYMENT

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GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.

COUNTER FLASHING

CHANNEL FLASHING

# 30 FELT UNDERLAYMENT

SUB-FLASHING

SOLID SHEATHING

ADDITIONAL LAYER OF # 30 FELT UNDERLAYMENT RUN PARALLEL TO RAKE WALL

# 30 FELT UNDERLAYMENT

RAKE WALL

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RAKE WALL

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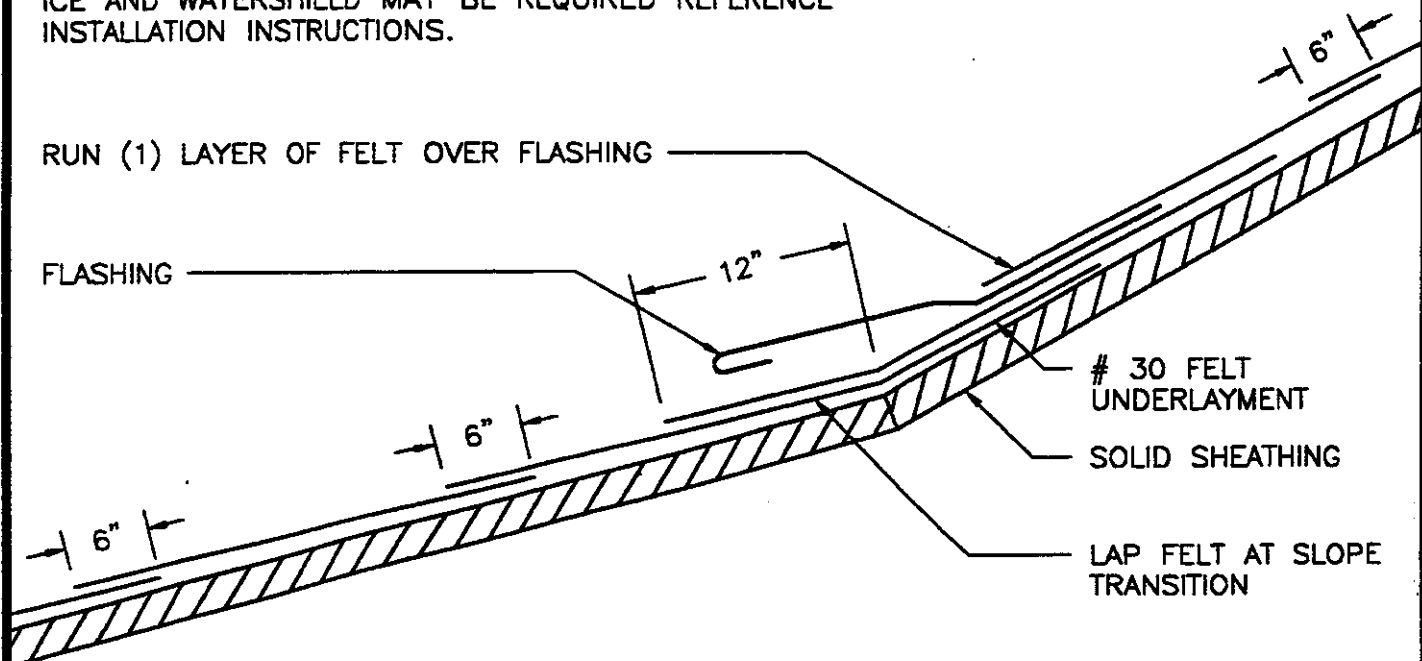
BERRIDGE



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GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.

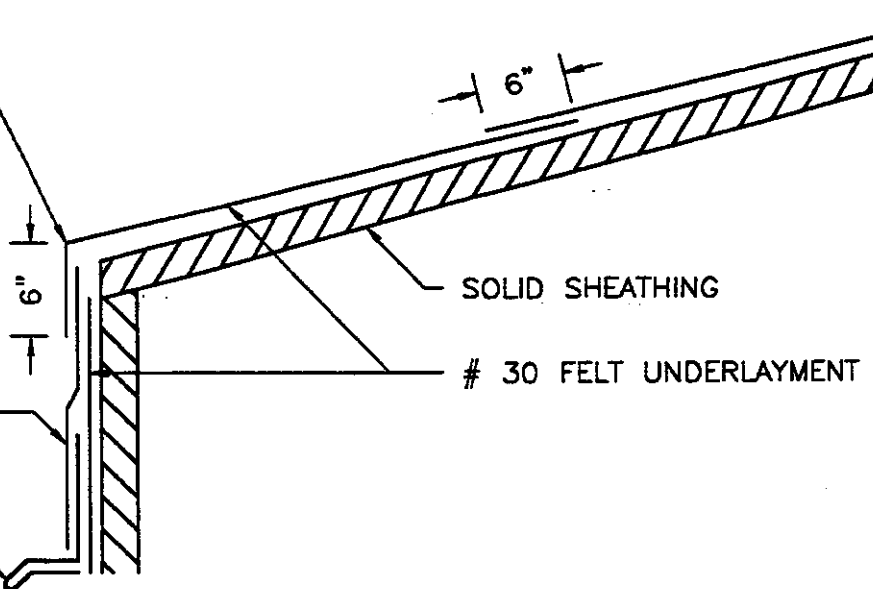


SLOPE TRANSITION WITH FLASHING

LAP SLOPED FELT UNDERLAYMENT OVER VERTICAL FELT

RUN FELT UNDERLAYMENT ON TOP OF DRIP FLASHING

DRIP FLASHING



SLOPE TRANSITION

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



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SLOPE TRANSITION WITH FLASHING  
SLOPE TRANSITION

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VALLEY FELT

VALLEY FLASHING (WHEN  
VALLEY FLASHING LEGS  
EXCEED 16" USE 2 RUNS  
OF VALLEY FELT WITH 12"  
FELT LAP AT VALLEY)

FELT PARALLEL  
TO VALLEY

FELT PARALLEL  
TO EAVE

PLAN VIEW

EAVE

CONTINUOUS # 30 FELT UNDERLAYMENT  
PARALLEL TO EAVE

VALLEY FLASHING

# 30 FELT UNDERLAYMENT;  
PARALLEL TO VALLEY FULL WIDTH EACH SIDE

2 LAYERS # 30 VALLEY FELT UNDERLAYMENT  
FULL WIDTH

SOLID SHEATHING

SECTION

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE  
USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE  
ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE  
INSTALLATION INSTRUCTIONS.



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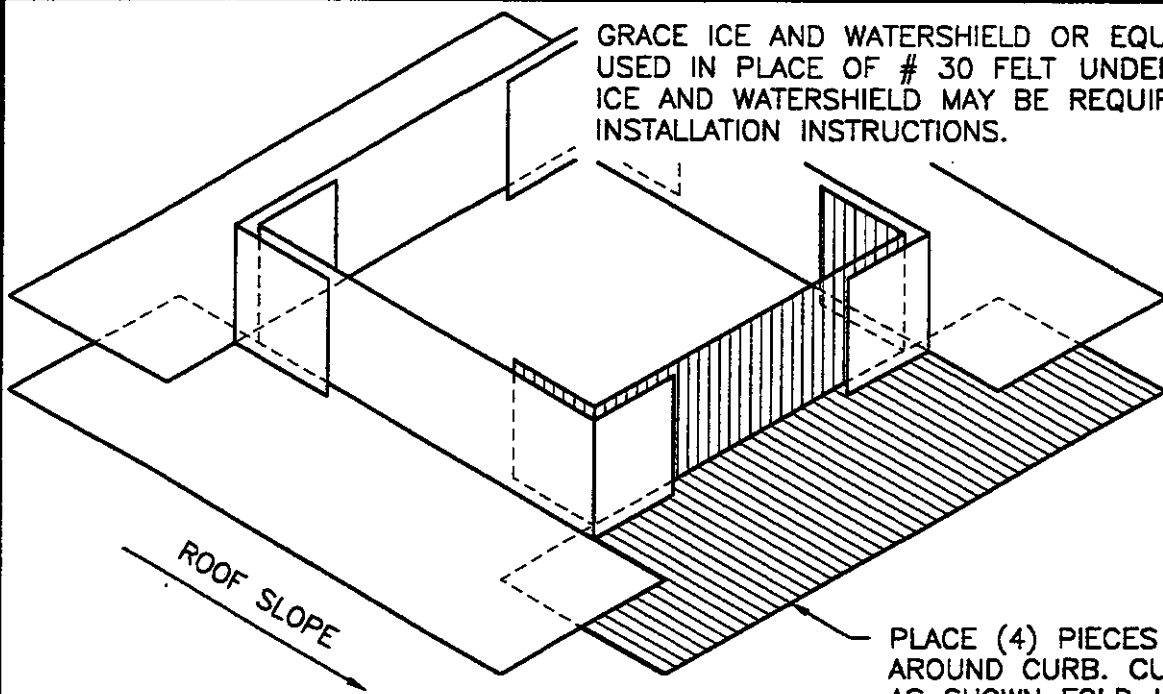
VALLEY

UNDERLAYMENT

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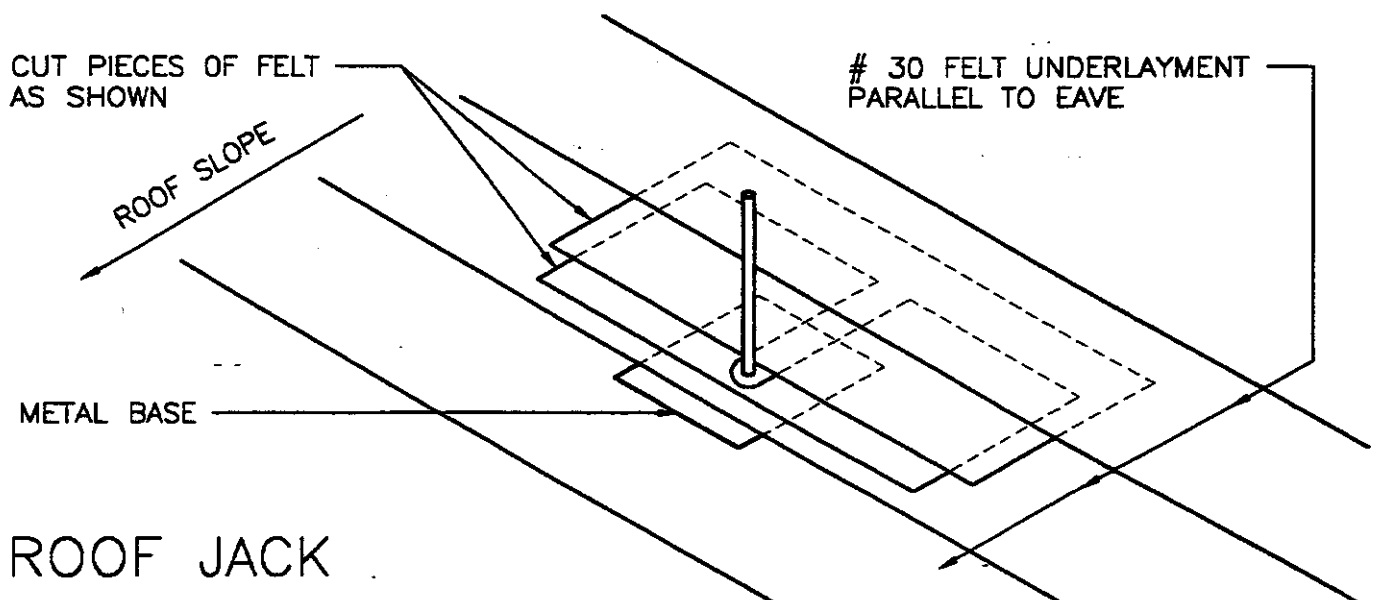
GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.

PLACE (4) PIECES OF FELT AROUND CURB. CUT EACH PIECE AS SHOWN FOLD UP TO CURB HEIGHT AND LAP AT CORNERS

## ROOF PENETRATION

LAP FELT OVER TOP OF BASE. INSULATE BETWEEN DISSIMILAR METALS WITH ROOFING FELT

GRACE ICE AND WATERSHIELD OR EQUAL MAY BE USED IN PLACE OF # 30 FELT UNDERLAYMENT. NOTE ICE AND WATERSHIELD MAY BE REQUIRED REFERENCE INSTALLATION INSTRUCTIONS.



## ROOF JACK



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*Roofs of Distinction*

ROOF PENETRATION  
ROOF JACK

**UNDERLAYMENT**

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