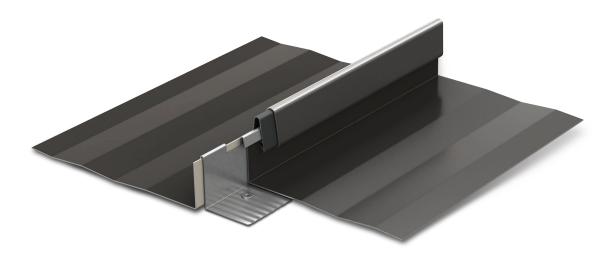
## HIGH SEAM TEE-PANEL INSTALLATION DETAILS





800-669-0009 • www.Berridge.com

INDEX INDEX		HT-0 HT-1
INSTALLATION INSTRUCTIONS INSTALLATION INSTRUCTIONS INSTALLATION INSTRUCTIONS INSTALLATION INSTRUCTIONS INSTALLATION INSTRUCTIONS INSTALLATION INSTRUCTIONS	NOMINAL LINEAR EXPANSION	HTI-1 HTI-2 HTI-3 HTI-4 HTI-5 HTI-6
INTRODUCTION TO TYPICAL DE	ETAILS	HT-2
OVERVIEW HIGH SEAM TEE PA HIGH SEAM TEE PANEL SPLICE SEAM SPLICE DETAIL ALTERNATE SEAM SPLICE DETA	DETAIL	HT-4 HT-5 HT-6 HT-7
INSULATED DECK DETAIL		HT-8
EAVE DETAIL EAVE DETAIL EAVE DETAIL		HT-10 HT-11 HT-12
RIDGE AND HIP DETAIL SHED ROOF RIDGE CAP DETAII RIDGE TERMINATION AT DORM	HT-20 HT-21 HT-22	
GABLE DETAIL GABLE DETAIL GABLE DETAIL GABLE DETAIL		HT-30 HT-31 HT-32 HT-33
PARAPET DETAIL	HT-40	
HEAD WALL DETAIL RAKE WALL DETAIL HEAD WALL DETAIL RAKE WALL DETAIL RAKE AT EAVE	HT-50 HT-51 HT-52 HT-53 HT-54	
SLOPE TRANSITION DETAIL SLOPE TRANSITION DETAIL ROOF TO FASCIA - A FOR 1" SEAM HEIGHT ONLY SLOPE TRANSITION DETAIL ROOF TO FASCIA - B FOR 1" SEAM HEIGHT ONLY SLOPE TRANSITION DETAIL ROOF TO FASCIA - C FOR 1 1/2" SEAM HEIGHT SLOPE TRANSITION DETAIL ROOF TO FASCIA - D FOR 1 1/2" SEAM HEIGHT FOLDING TEE-CLIP INSTALLATION		HT-60 HT-61 HT-62 HT-63 HT-64 HT-65
BERRIDGE MANUFACTURING COMPANY	INDEX	DATE: 12-11-01
Roofs of Distinction	High Seam Tee-Panel	PAGE/FILE HT-0

VALLEY DETAIL	HT-70
VALLEY DETAIL; ISOMETRIC	HT-71
PIPE PENETRATION (PREFERRED METHOD) IN PAN OF PANEL ONLY	HT-80
PIPE PENETRATION OF PANEL SEAM ISOMETRIC AND PLAN VIEW	HT-81
PIPE PENETRATION OF PANEL SEAM; SECTIONS	HT-82
ROOF PENETRATION RECTANGULAR/SQUARE	HT-83
ROOF PENETRATION SECTION A	HT-84
ROOF PENETRATION SECTION B	HT-85
ROOF PENETRATION ISOMETRIC	HT-86
UL 90 APPROVED HIGH SEAM TEE PANEL ASSEMBLY CONSTRUCTION NO. 297	HT-90
UL 90 APPROVED HIGH SEAM TEE PANEL ASSEMBLY CONSTRUCTION NO. 475	HT-91
UL 90 APPROVED HIGH SEAM TEE PANEL ASSEMBLY CONSTRUCTION NO. 532	HT-92
UL FIRE RESISTANCE ROOF ASSEMBLY	HT-100
UL FIRE RESISTANCE ROOF ASSEMBLY	HT-100
UL FIRE RESISTANCE ROOF ASSEMBLY	HT-101
UL FIRE RESISTANCE ROOF ASSEMBLY	HT-102

	BERRIDGE MANUFACTURING	INDEX	DATE: 12-11-01
	COMPANY		PAGE/FILE
Roofs of Distinction		High Seam Tee-Panel	HT-1

A. BERRIDGE HIGH SEAM TEE-PANEL IS AVAILABLE IN A PAN WIDTH OF 18 1/4" AND A SEAM HEIGHT OF 1" OR 1 1/2".

PANELS ARE FACTORY FABRICATED AND/OR FIELD FABRICATED USING THE BERRIDGE MODEL SS-1421 PORTABLE ROLL FORMER.

WHEN SPECIFYING COIL OR FIELD FORMED PANELS, PLEASE NOTE EACH SEAM HEIGHT REQUIRES A DIFFERENT WIDTH COIL.

PANELS MIST BE CURVED ON THE FIELD WITH THE BERRIDGE SS-1421 PORTABLE ROLL FORMER. THE MINIMUM RADIUS FOR THE 1 1/2" SEAM HEIGHT IS 8'-0" AND FOR THE 1" SEAM HEIGHT THE MINIMUM RADIUS IS 5'-0". CURVED PANELS CAN BE EITHER SMITH OR STRIATED.

FOR MULTIPLE RADIUSES THE 1" SEAM HEIGHT CAN BE FIELD ADJUSTED REFERENCE OPERATIONS MANUAL; THE 1 1/2" SEAM HEIGHT REQUIRES PRIOR TRAINING OF FIELD PERSONAL OR FACTORY ADJUSTMENT BY BERRIDGE.

A FOLDING TEE-CLIP IS AVAILABLE FOR CURVED APPLICATIONS OF THE 1" PANEL AND 1 1/2" PANEL SEAM, REVIEW DETAIL HT-65 FOR INSTALLATION INSTRUCTIONS.

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

B. MINIMUM SLOPE: THE HIGH SEAM TEE-PANEL IS RECOMMENDED FOR SLOPES OF 1:12 AND GREATER ON MOST AREAS OF THE COUNTRY. IN HEAVY SNOW AREAS OF AREAS WHERE FREEZE-THAW CYCLES ARE PREVALENT, A MINIMUM ROOF SLOPE OF 3:12 IS RECOMMENDED.

A DOUBLE LAYER OF NUMBER THIRTY FELT UNDERLAYMENT OR EQUAL COVERING THE ENTIRE SUBSTRATE O RECOMMENDED FOR ALL APPLICATIONS WHERE THE ROOF SLOPE IS BETWEEN 3:12 AND 1:12.

W.R. GRACE 40 MIL ICE AND WATERSHIELD OR EQUAL IS REQUIRED ON ALL CURVED INSTALLATIONS.

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

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

D. STRIPPABLE FILM: THE STRIPPABLE PLASTIC FILM WHICH IS APPLIED OVER MOST BERRIDGE PREFINISHED PRODUCTS, PANELS, FLASHINGS, COIL AND FLAT SHEETS PROTECTS THE FINISH DURING FABRICATION AND TRANSIT. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION.

BERRIDGE MANUFACTURING COMPANY	INSTALLATION INSTRUCTIONS	DATE: 04-10-08
Roofs of Distinction	High Seam Tee-Panel	PAGE/FILE HTI-1

E. SOLID SHEATHING REQUIREMENTS: BERRIDGE MANUFACTURING COMPANY RECOMMENDS THE USES OF EITHER BERRIDGE 24 GA. CORRUGATED METAL (NOMINAL 2.67" PITCH X 7/8" DEPTH) OR A MINIMUM OF 1/2" SOLID WOOD SHEATHING TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS. CONTACT BERRIDGE MANUFACTURINGS' ENGINEERING DEPARTMENT FOR USE OF ANY OTHER TYPE OF SOLID SHEATHING.

DUE TO # 30 FELTS TENDENCY TO TEAR WHEN USED OVER CORRUGATED DECKING, BERRIDGE MANUFACTURING RECOMMENDS 40 MIL GRACE ICE AND WATERSHIELD OR EQUAL TO BE USED AS AN UNDERLAYMENT FOR ALL CORRUGATED DECKS.

NOTE: FOR PROJECTS REQUIRING UL 90 ASSEMBLY, REFER TO UL 90 DETAILS.

## F. SHEATHING INSPECTION:

- 1. SHEATHING END JOINTS SHOULD BE STAGGERED.
- 2. ALL END JOINTS SHOULD MEET AT EITHER A JOIST OR RAFTER.
- 3. BLOCKING OR "H" CLIPS SHOULD BE USED ON PLYWOOD IF JOINTS DO NOT REMAIN FLAT UNDER THE WEIGHT OF WORKMEN.
- 4. USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN. UNEVEN SUBSTRATE WILL RESULT IN "OIL-CANNING" IN PANELS. SUBSTRATE SHOULD BE LEVEL TO 1/4" ON 20'-0".
- 5. ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.
- 6. USE WOOD FRAMED CRICKETS AT LARGE PENETRATIONS.
- 7. MAKE SURE SUBSTRATE JOINTS ARE TIGHT AT ALL HIPS, VALLEYS AND RIDGES.
- G. FASCIA/RAKE INSPECTION:
  - 1. STRIKE A LINE THE FULL LENGTH OF THE FASCIA OR RAKE. IF NOT STRAIGHT, CORRECT WITH SHIMS.
  - 2. MAKE SURE FASCIA/RAKE IS FLUSH WITH ROOF SUBSTRATE SHEATHING.
- H. FELT UNDERLAYMENT: A SINGLE LAYER OF NUMBER THIRTY FELT UNDERLAYMENT (OR EQUAL) MUST BE APPLIED OVER SOLID SHEATHING AS SHOWN IN THE BERRIDGE MANUFACTURING COMPANY TYPICAL UNDERLAYMENT DETAILS. THE USE OF ADDITIONAL LAYERS OF NUMBER THIRTY FELT IS RECOMMENDED ON LOW-SLOPED ROOFS, AT ALL VALLEY CONDITIONS, AT ROOF PENETRATIONS AND CERTAIN OTHER FLASHING CONDITIONS AS DEPICTED IN THE HIGH SEAM TEE-PANEL TYPICAL DETAILS, GRACE ICE AND WATERSHIELD MAY BE REQUIRED ON LOW SLOPED ROOFS OR AT CERTAIN FLASHING CONDITIONS.

## I. FELTING INSTALLATION:

- 1. DO NOT USE RED ROSIN PAPER UNDER METAL ROOFING PANELS.
- 2. SWEEP ROOF AREA CLEAN.
- 3. USE FLAT HEAD GALVANIZED ROOFING NAILS X 1-1/4" LONG WITH BERRIDGE GALVANIZED FELT CAPS.
- 4. INSTALL VALLEY FELT FIRST.
- 5. INSTALL FELT PARALLEL TO EAVE (2 LAYERS REQUIRED AT EAVE), STARTING AT EAVE AND USING MINIMUM 6" LAPS. USE TWO LAYERS OF FELT ON ENTIRE ROOF DECK IF ROOF SLOPE BETWEEN 1:12 AND 3:12. 2 LAYERS REQUIRED AT EAVE REGARDLESS OF SLOPE.
- 6. INSULATE BETWEEN WOOD BLOCKING AND METAL WITH FELT OR ICE AND WATER SHIELD.

Roofs of Distinction	BERRIDGE MANUFACTURING COMPANY	INSTALLATION INSTRUCTIONS	DATE: 12-11-01
		High Seam Tee-Panel	PAGE/FILE HTI-2

- 7. VERIFY CORRECT METHOD OF INSTALLING ICE AND WATERSHIELD WITH ICE AND WATERSHIELD MANUFACTURER.
- J. THERMAL MOVEMENT: EXPANSION AND CONTRACTION OF PANELS WHICH EXCEEDS THIRTY FEET IN LENGTH CAN BE A FACTOR IN THE DESIGN AND INSTALLATION OF FLASHINGS AND PANELS. PLEASE REFER TO EXPANSION CHART ON PAGE HTI-6 TO DETERMINE ANTICIPATED THERMAL MOVEMENT OF PANELS. IMPROPERLY DESIGNED FLASHING MAY CAUSE PANELS TO DISENGAGE FROM FLASHING, ALLOWING OIL-CANNING IN PANEL AND/OR CAUSE FLASHING TO WORK LOOSE FROM ITS ANCHORAGE.
- K. ELECTROLYSIS: PREVENT EXPOSURE TO WATER RUNDOWN FROM COPPER AND/OR LEAD. AVOID ALLOWING FLASHING AND PANELS TO COME INTO CONTACT WITH EITHER LEAD OR COPPER.
- L. FLASHING: IF BERRIDGE MANUFACTURING COMPANY IS TO SUPPLY FLASHINGS, ALL FLASHINGS SHALL BE FABRICATED IN 10'-0" LENGTHS WITH SQUARE END CUTS ONLY. THE PURCHASER MUST PROVIDE ALL DIMENSIONS AND DEGREE OF ANGLES.
- M. FLASHING INSTALLATION:
  - 1. REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS PRIOR TO INSTALLATION.
  - 2. ALWAYS STAGGER JOINTS WHEN TWO ROWS OF FLASHING OCCUR.
  - 3. INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS
  - 4. ALL FLASHINGS ARE TO BE DESIGNED AND INSTALLED NOT TO TRAP WATER.

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

PANEL INSTALLATION:

- 1. REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL PRIOR TO INSTALLATION.
- 2. DETERMINE CENTER LINE OF ROOF AREA AND START PANEL INSTALLATION AT THE CENTER OF THE ROOF, WORKING TOWARD 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.
- 3. INSTALL HIGH SEAM TEE-PANEL CLIPS AS PER BERRIDGE TYPICAL DETAILS AND TEE-CLIP INSTALLATION NOTES.
- 4. 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.
- 5. ALWAYS INSTALL SEAM AS YOU INSTALL EACH PANEL. DO NOT INSTALL PANELS FIRST AND THEN FOLLOW LATER WITH SEAM INSTALLATION.
- 6. KEEP PANELS ALIGNED SO THAT SEAMS 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 10 OR 12 PANELS IN ONE ELEVATION AND THEN FOLLOW WITH A LIKE NUMBER OF PANELS ON THE OTHER

BERRIDGE MANUFACTURING COMPANY	INSTALLATION INSTRUCTIONS	DATE: 12-11-01
Roofs of Distinction	High Seam Tee-Panel	PAGE/FILE HTI-3

ELEVATION. WHEN YOU INSTALL PANELS IN THIS MANNER, YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO INSURE SEAM MATCHING.

- 7. COPPER-COTE<sup>™</sup>, CHAMPAGNE, LEAD-COTE<sup>™</sup> 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 TAT 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 FINISHED 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 AND 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.
- 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.
- R. TEE-CLIP INSTILLATION:
  - 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 US #10 PANCAKE HEAD TEKS FASTENERS (ZINC-PLANTED SCREW WITH PHILLIPS INSERT, AS MADE BY CONSTRUCTION FASTENER 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.

- \* NOTE: IF LOCAL CODES OR OTHER REGULATIONS DICTATE SPECIFIC WIND UPLIFT REQUIREMENTS, CONSULT THE BERRIDGE ENGINEERING DEPARTMENT, AS IT MAY BE NECESSARY TO USE DIFFERENT CLIP SPACING OR FASTENER.
- \*\* CONSULT BERRIDGE MANUFACTURINGS' ENGINEERING DEPARTMENT REGARDING THE USE OF ANY OTHER TYPE OF FASTENER.

	BERRIDGE MANUFACTURING	INSTALLATION INSTRUCTIONS	DATE: 12-11-01
Roofs of Distinction		High Seam Tee-Panel	PAGE/FILE HTI-4

- T. UNERWRITERS LABORATORIES RATINGS: THE FOLLOWING UL RATINGS: THE BERRIDGE HIGH SEAM TEE-PANEL COMPLIES WITH
  - 1. NO. 580 "TEST FOR WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES" CLASS UL 90 (REFER TO BERRIDGE TYPICAL DETAIL HT-90.91 & 92)
  - UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NUMBERS P224, P225, P227, P230. P237, P250, P259, P508, P510, P512, P514, P518, P701, P711, P713, P717, P719, P720, P722, P723, P724, P726, P731, P734, P736, P801, P803, P814, P815, P818, P819, P823 AND P824. REFER TO BERRIDGE TYPICAL DETAILS HT-92, HT-93 AND HT-94.

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 THE BERRIDGE MANUFACTURING ENGINEERING DEPARTMENT REGARDING THE USE OF ANY OTHER TYPE OF FASTENER.

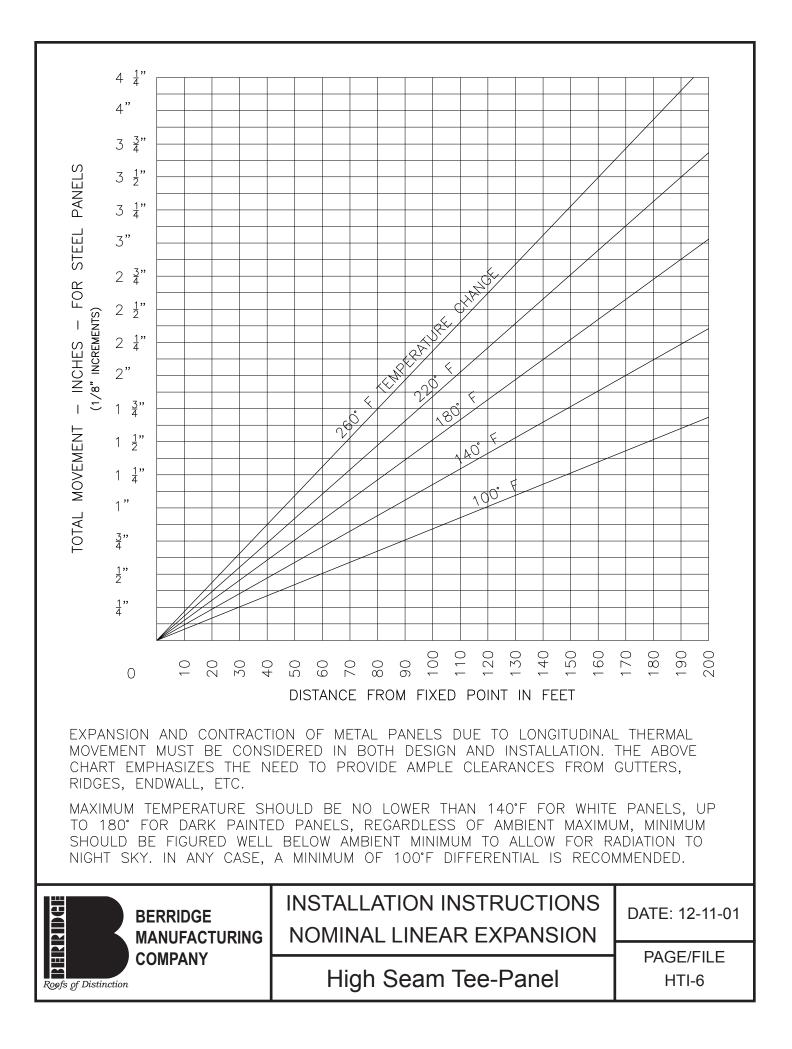
BERRIDGE MANUFACTURING COMPANY STRIVES TO PROVIDE ITS CUSTOMERS WITH THE HIGHEST QUALITY STRETCHER LEVELED STEEL AVAILABLE. THE LATEST TECHNOLOGY IS ALSO INCORPORATED IN BERRIDGE'S HIGH-PRECISION COIL HANDLING AND ROLL FORMING EQUIPMENT TO MINIMIZE THE STRESS ON METAL DURING PRODUCTION. FURTHERMORE, BERRIDGE UTILIZES HEAVIER 24 GAUGE METAL RATHER THAN 26 GAUGE STEEL OR LIGHT GAUGE ALUMINUM AS OFFERED BY MANY COMPETITORS. ALL THESE MEASURES HAVE BEEN TAKEN TO MINIMIZE THE AMOUNT OF "OIL-CANNING" (WAVINESS) WHICH IS NATURALLY INHERENT IN FLAT SHEET METAL. MANY TIMES, HOWEVER, THE CAUSE OF WAVINESS OR "OIL-CANNING" CAN BE TRACED TO UNEVEN SHEATHING, IMPROPER FELT INSTALLATION, IMPROPER HANDLING, OR FOOT TRAFFIC ON THE PANELS.

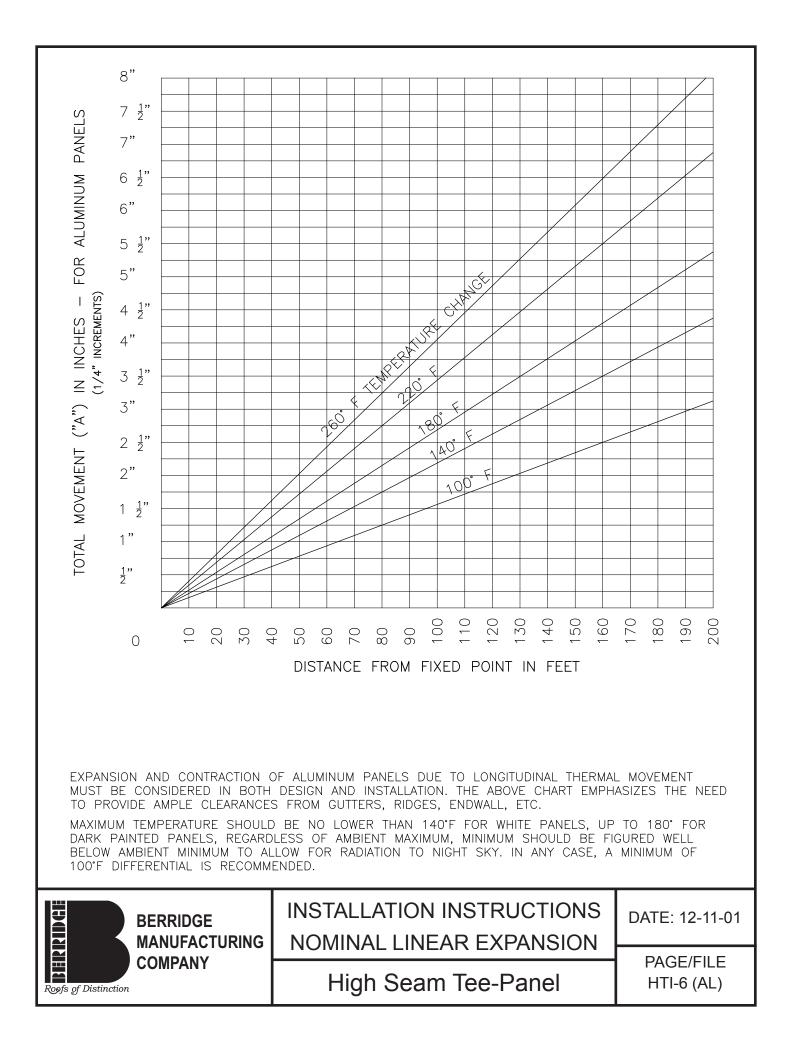
ALL ARCHITECTURAL PANELS REQUIRE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING OR DEFORMING THE PANELS.

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

BERRIDGE MANUFACTURING COMPANY	INSTALLATION INSTRUCTIONS	DATE: 12-11-01
Roofs of Distinction	High Seam Tee-Panel	PAGE/FILE HTI-5





THE DETAILS CONTAINED IN THE FOLLOWING PAGES ARE MERELY RECOMMENDATIONS AS TO HOW BERRIDGE MANUFACTURING MATERIALS SHOULD BE INSTALLED. THEY MAY REQUIRE ADAPTATIONS OR MODIFICATIONS FOR A SPECIFIC PROJECT AS CONDITIONS VARY IN BOTH BUILDING DESIGN AND LOCAL WEATHER PECULIARITIES.

BERRIDGE MANUFACTURING COMPANY SHALL BE HELD HARMLESS FROM ANY AND ALL CLAIMS ARISING FROM A LACK OF WATERTIGHTNESS AS A RESULT OF FOLLOWING THESE RECOMMENDED DETAILS. ENSURING WATERTIGHTNESS ON ANY GIVEN PROJECT IS THE FUNCTION OF THE INSTALLER. THE ARCHITECT/GENERAL CONTRACTOR/INSTALLER MUST ACCEPT THE RESPONSIBILITY TO ADAPT THESE DETAILS TO MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATERTIGHTNESS.

THE INSTALLER CAN VIRTUALLY ASSURE WATERTIGHTNESS IF THESE FLASHING DETAILS HAVE BEEN PROPERLY ADAPTED, ADEQUATE LAPS HAVE BEEN PROVIDED, CORRECT TYPE OF SEALANT USED, ALL JOINTS ADEQUATELY CAULKED AND PROFESSIONAL WORKMANSHIP EMPLOYED.

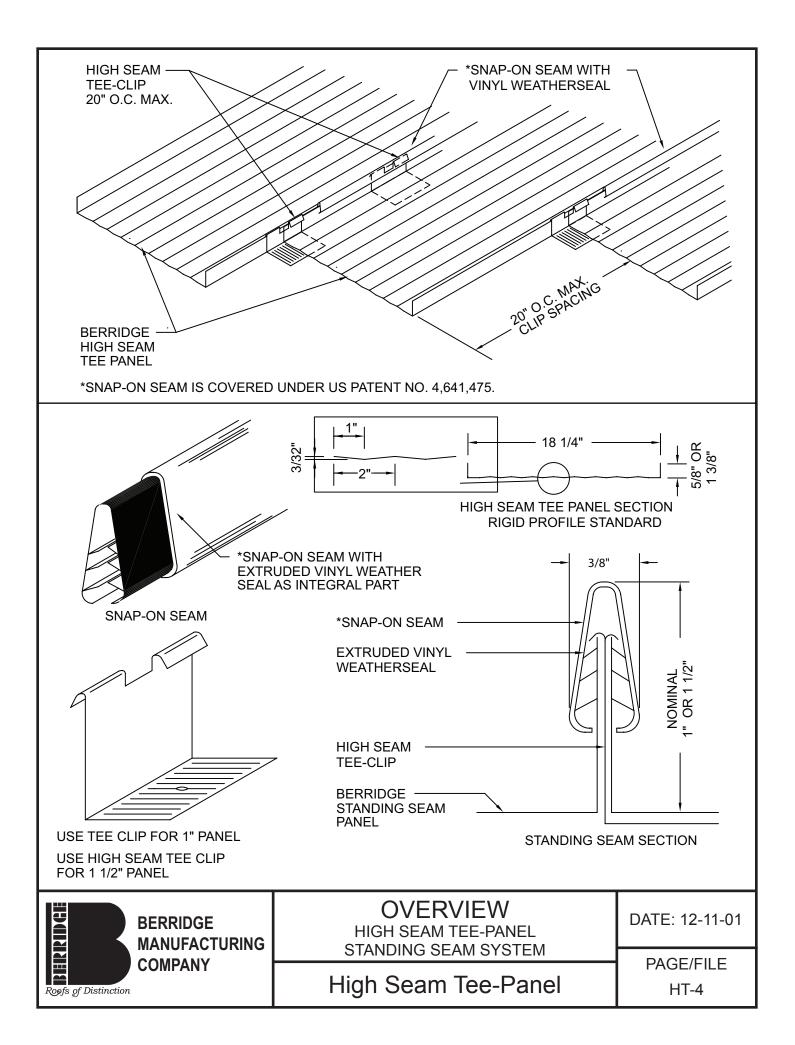


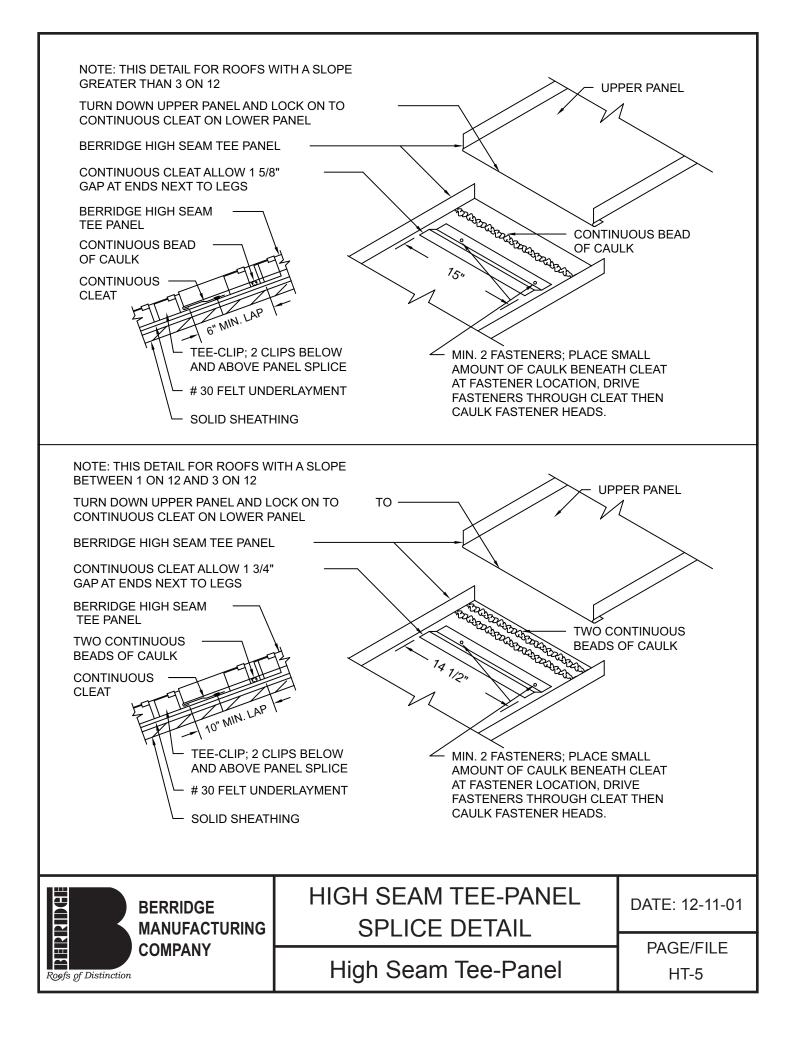
BERRIDGE MANUFACTURING COMPANY INTRODUCTION TO TYPICAL DETAILS

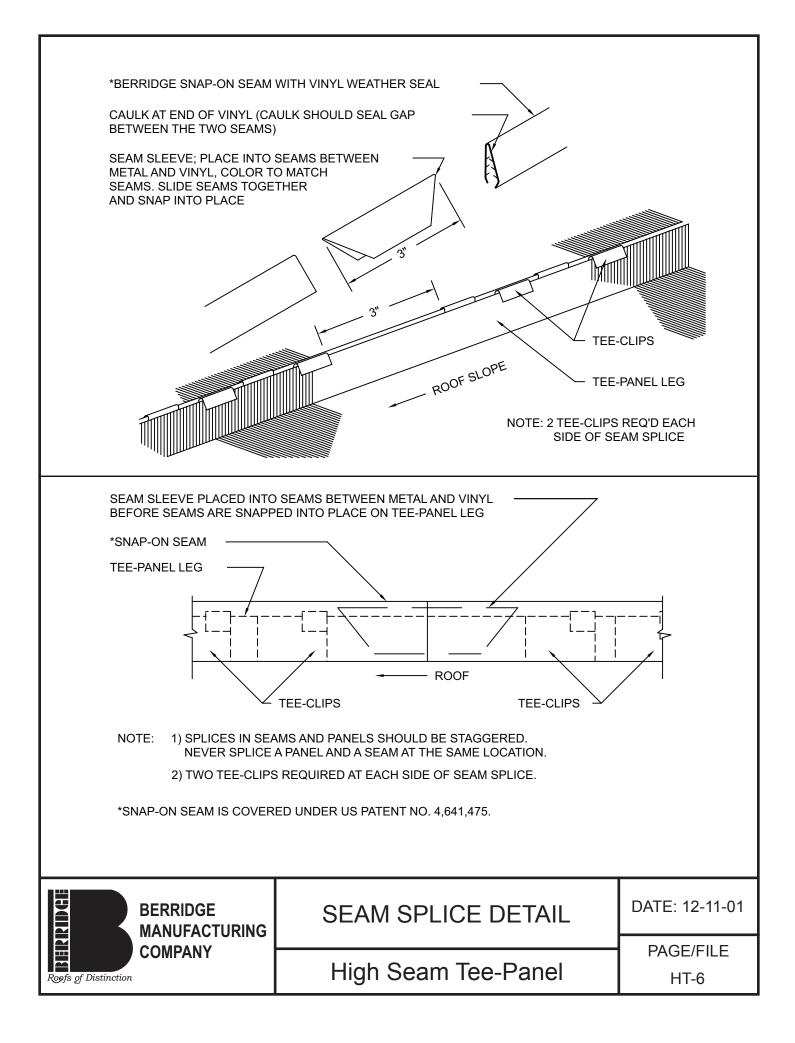
DATE: 12-11-01

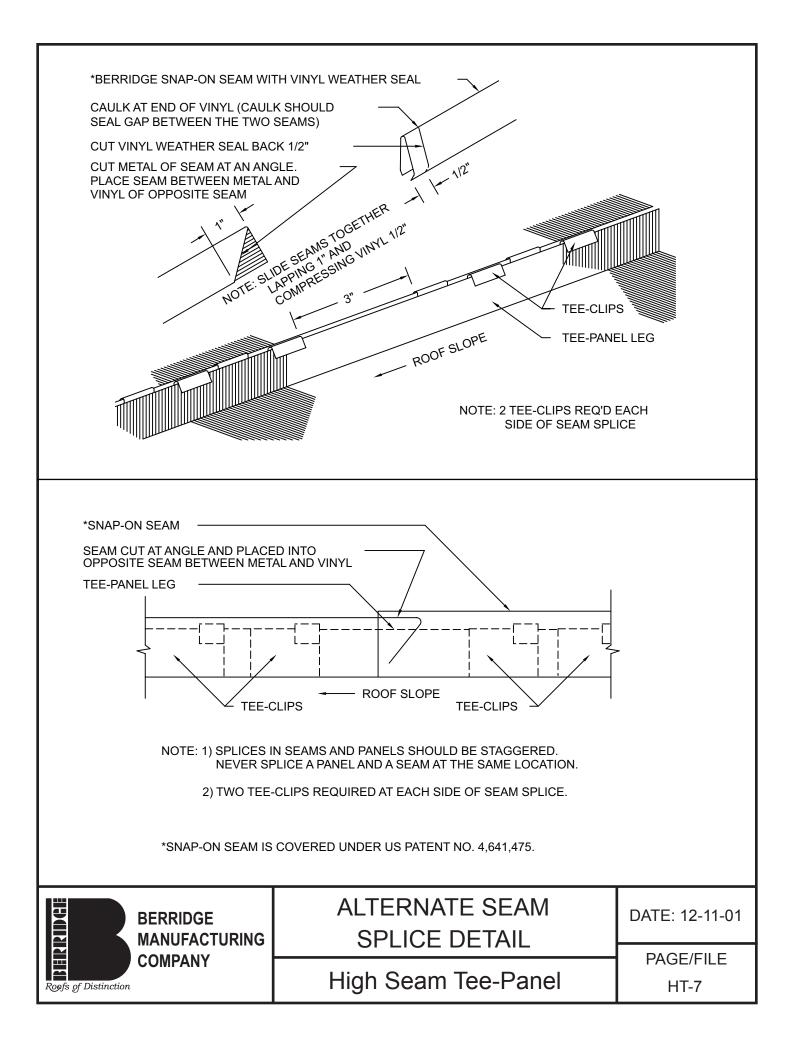
High Seam Tee-Panel

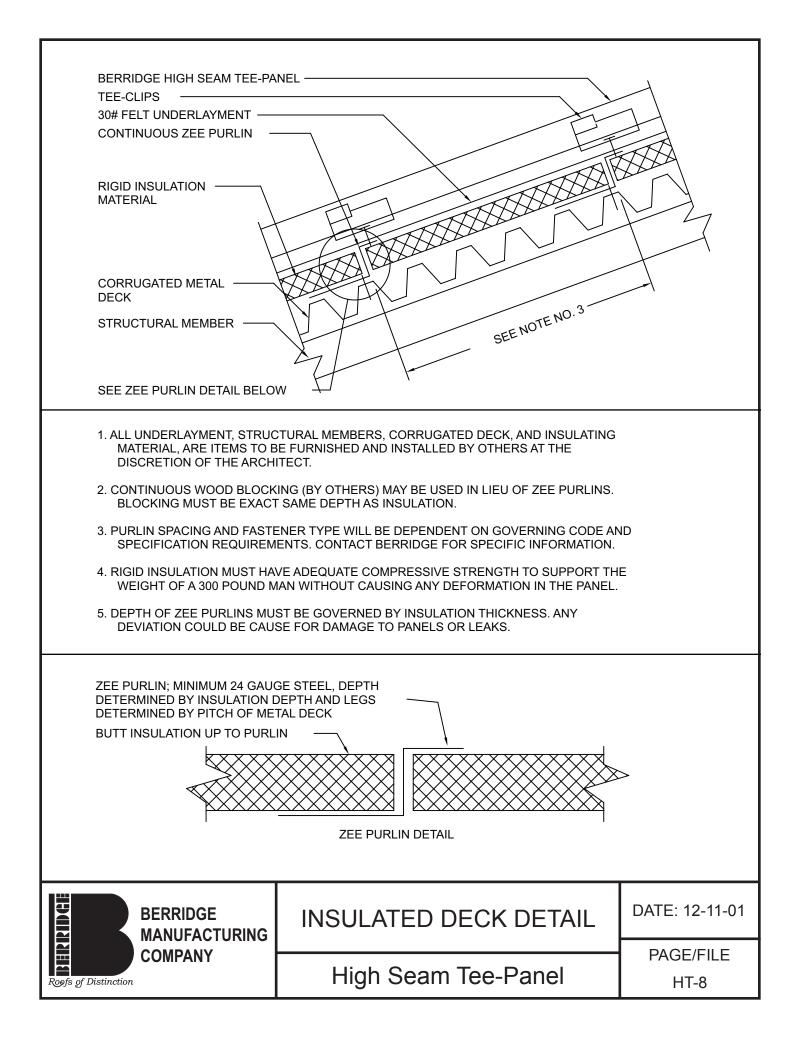
PAGE/FILE HT-2

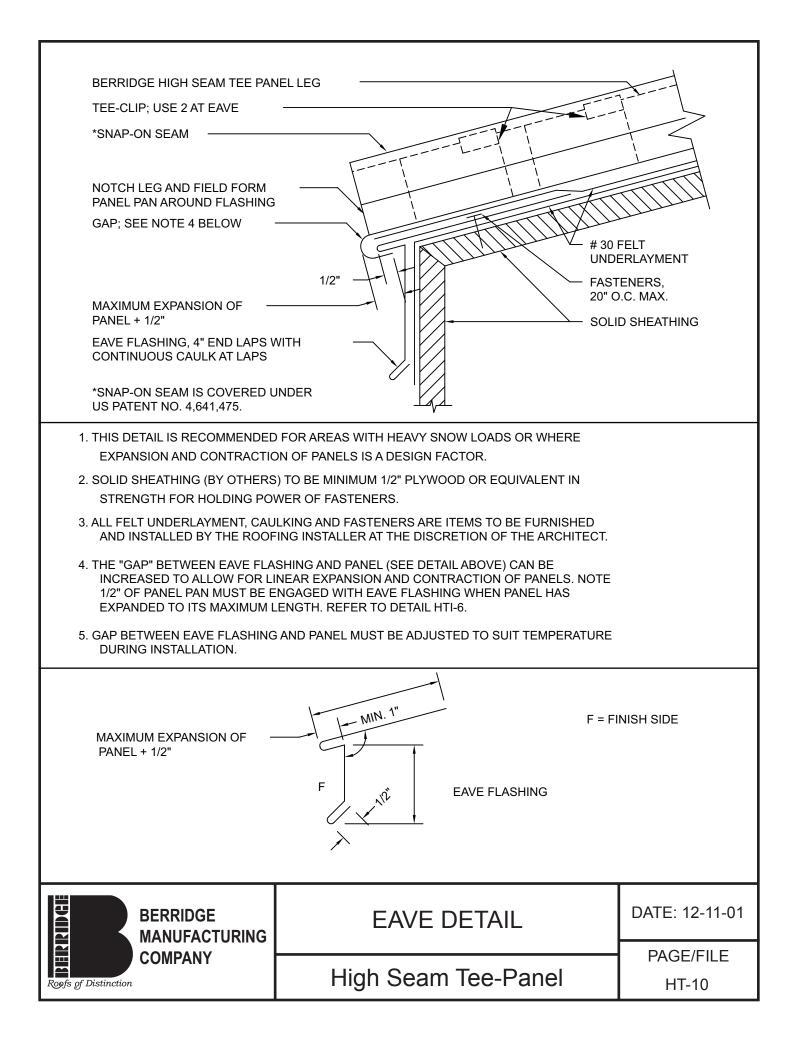


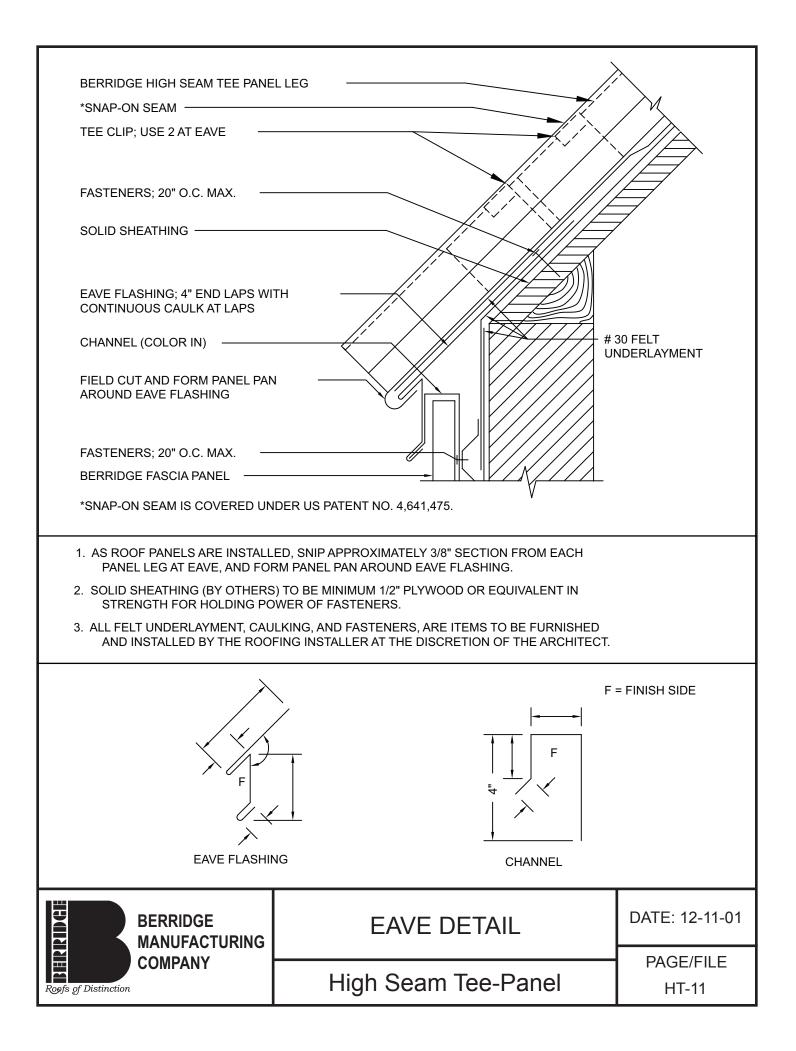


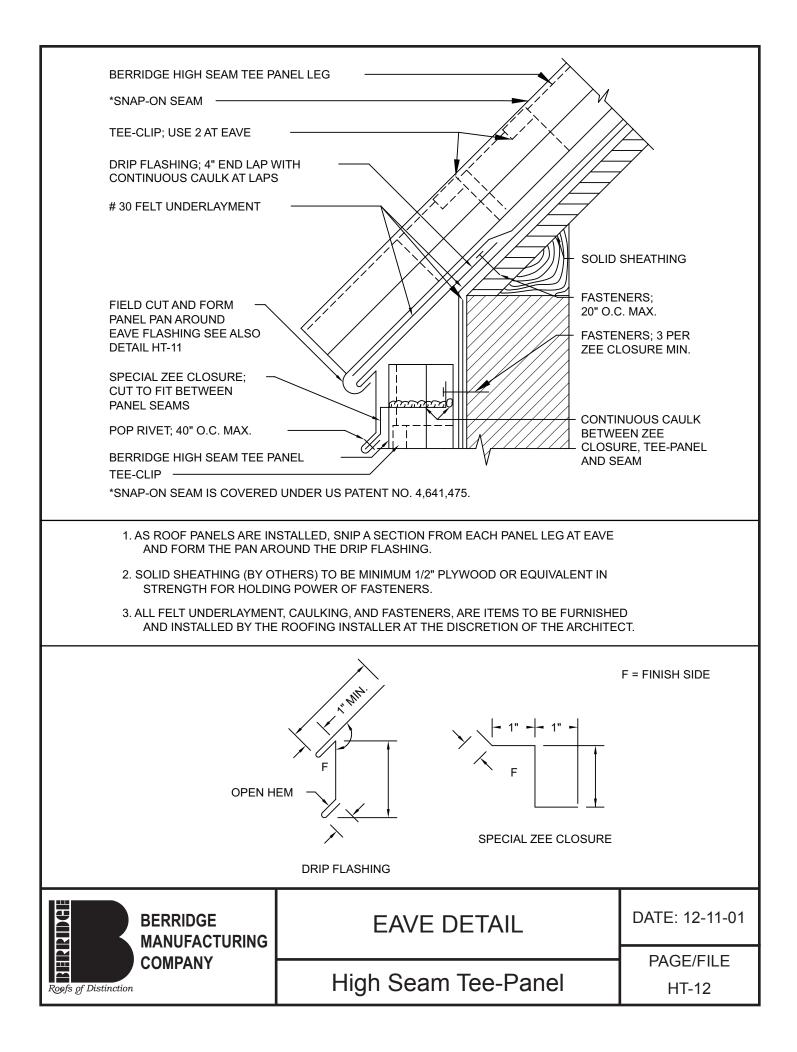


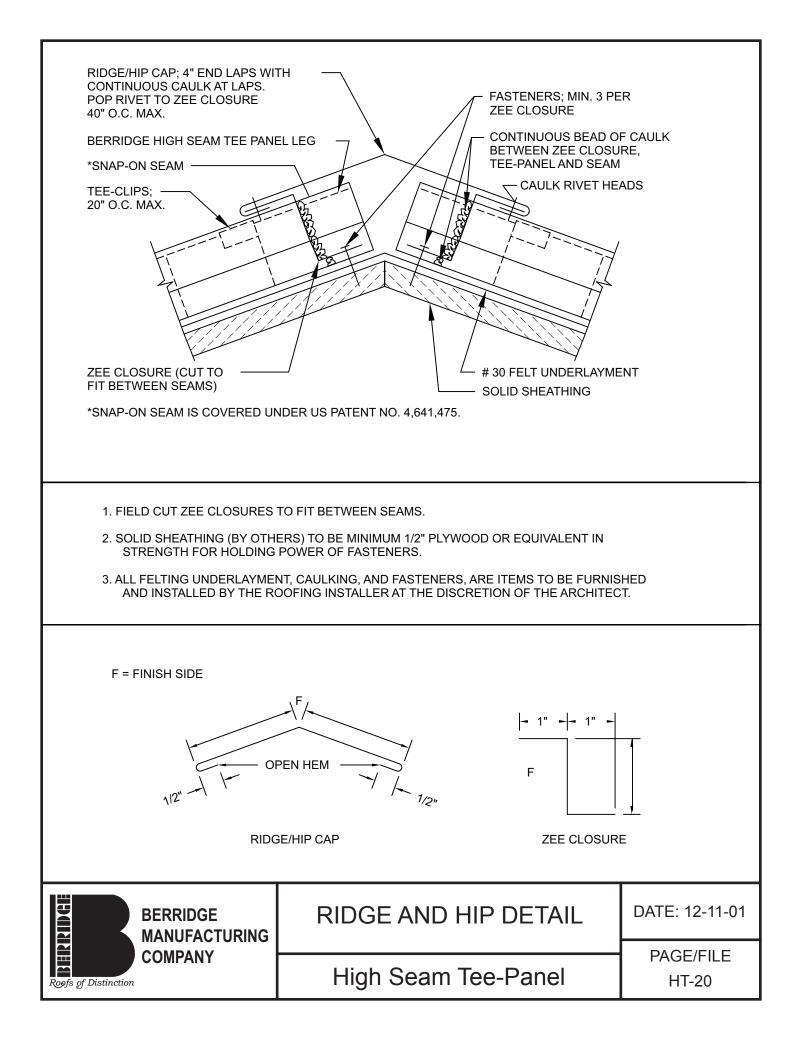


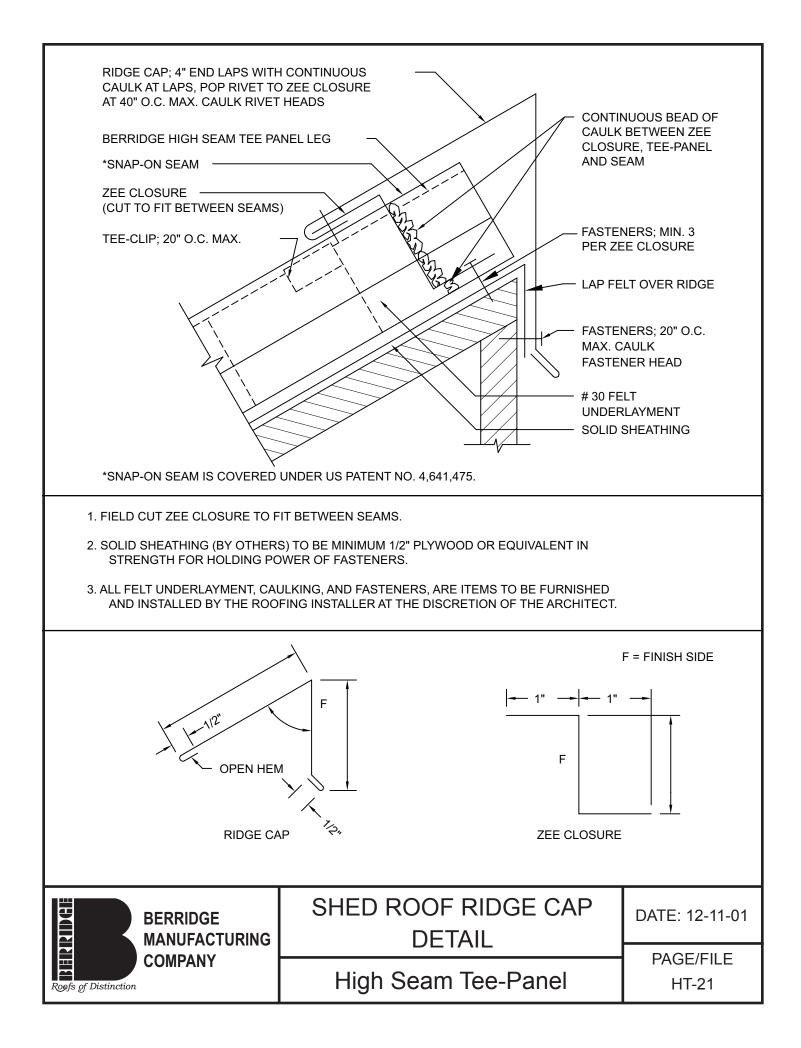


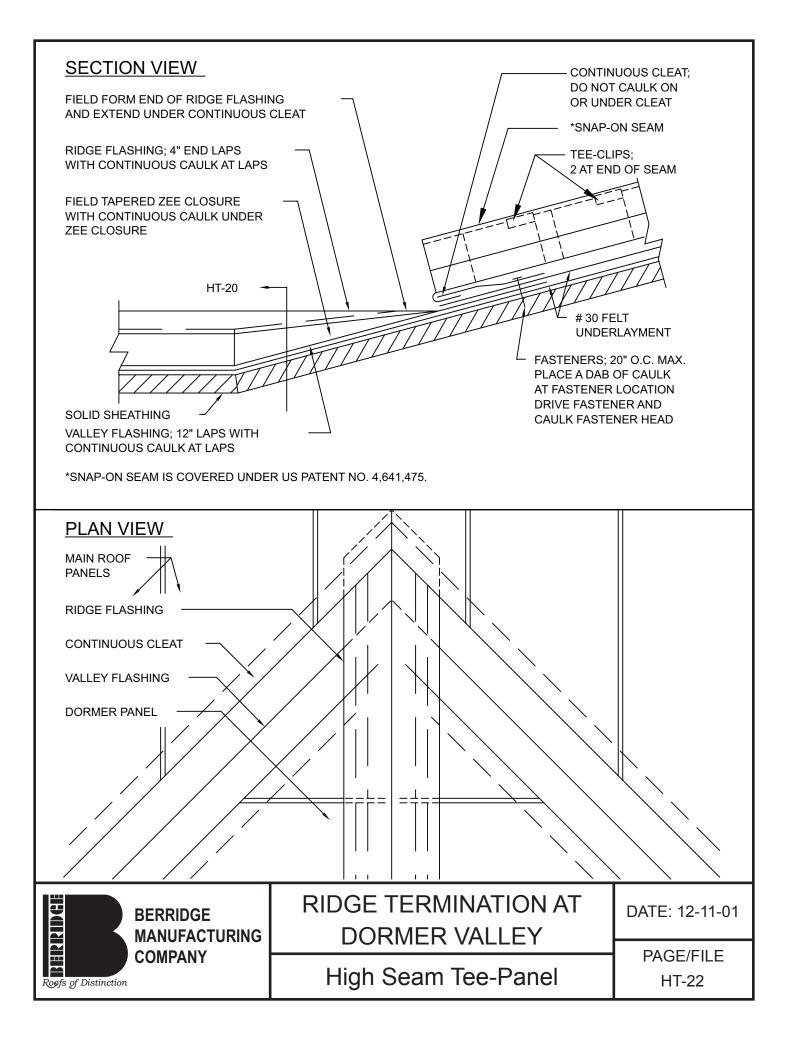


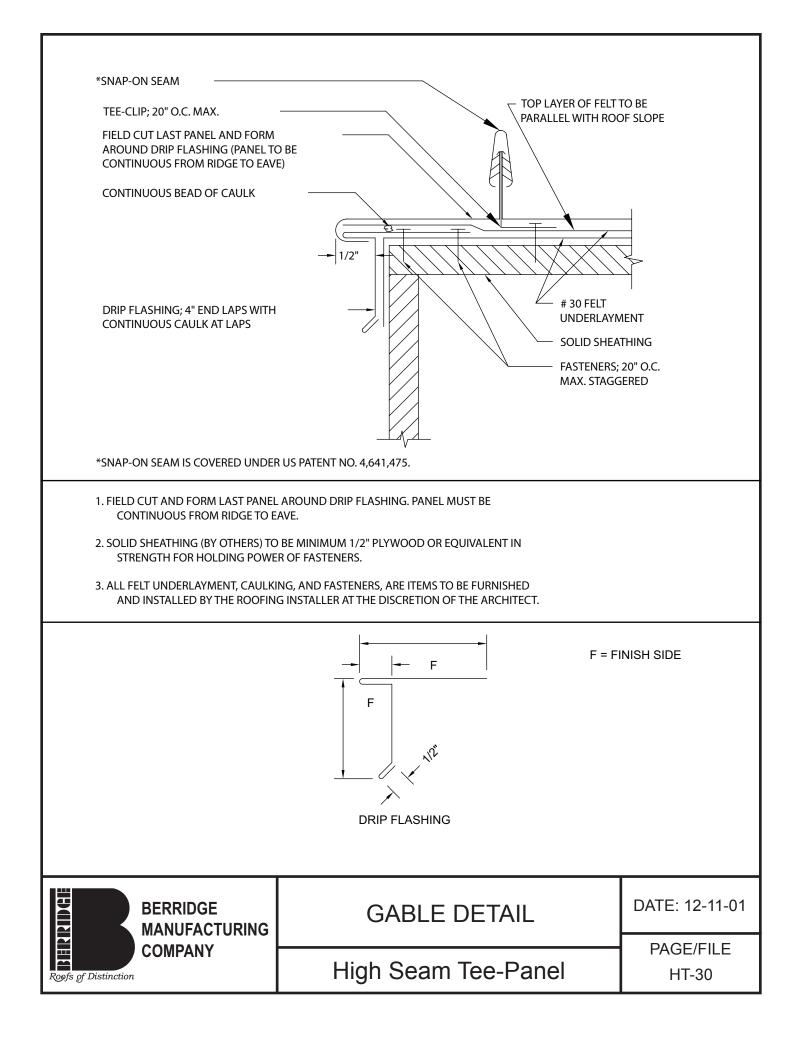


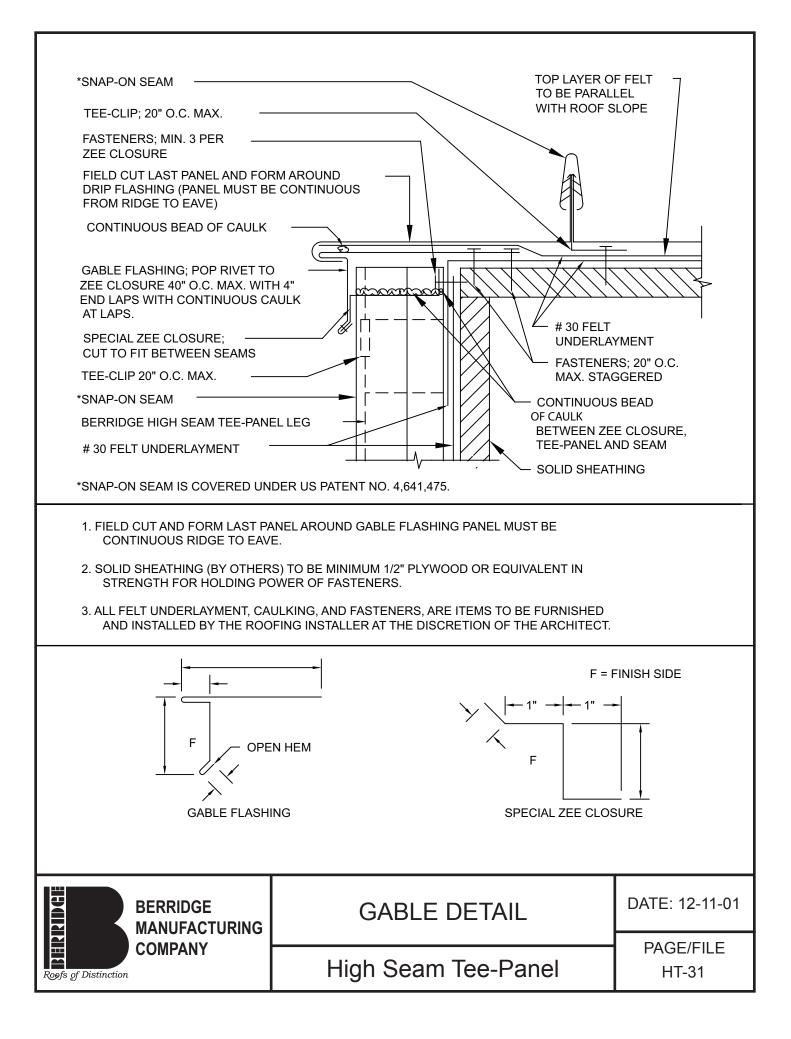


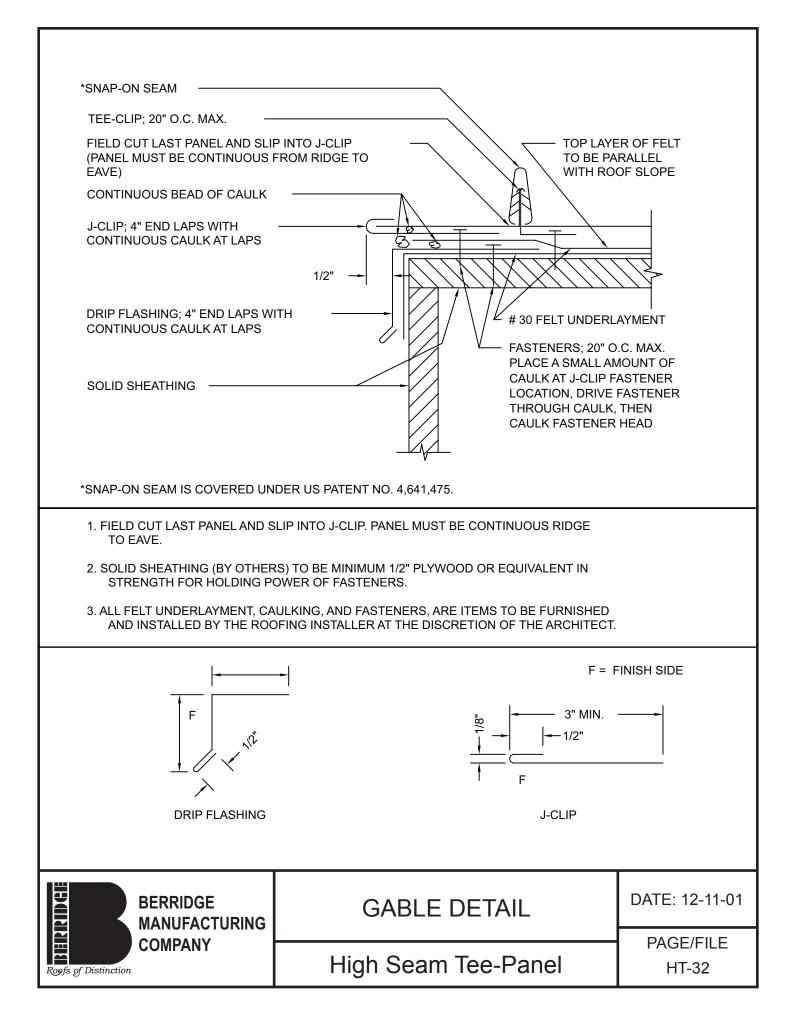


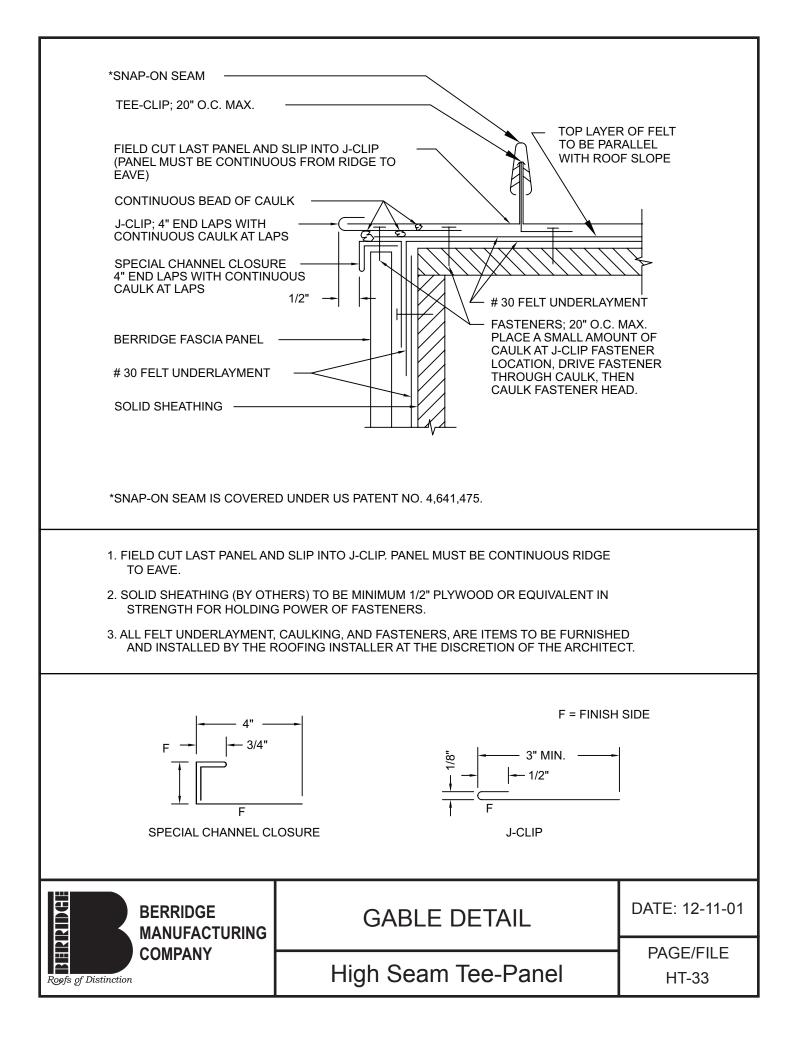


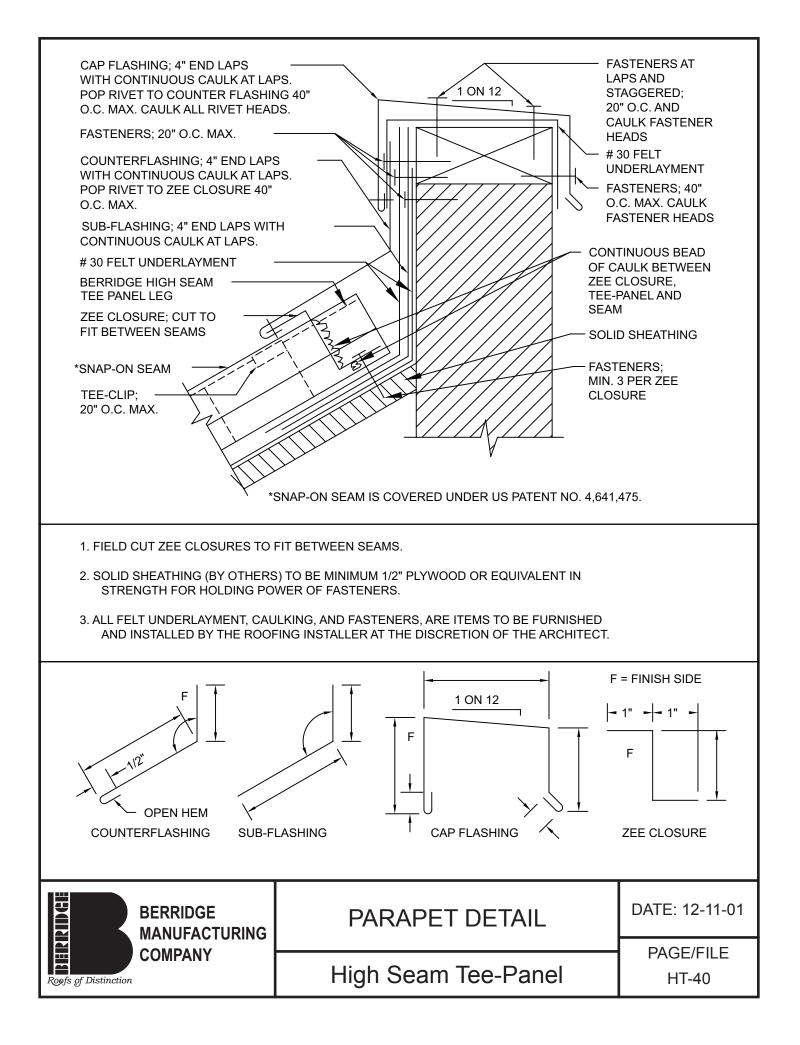


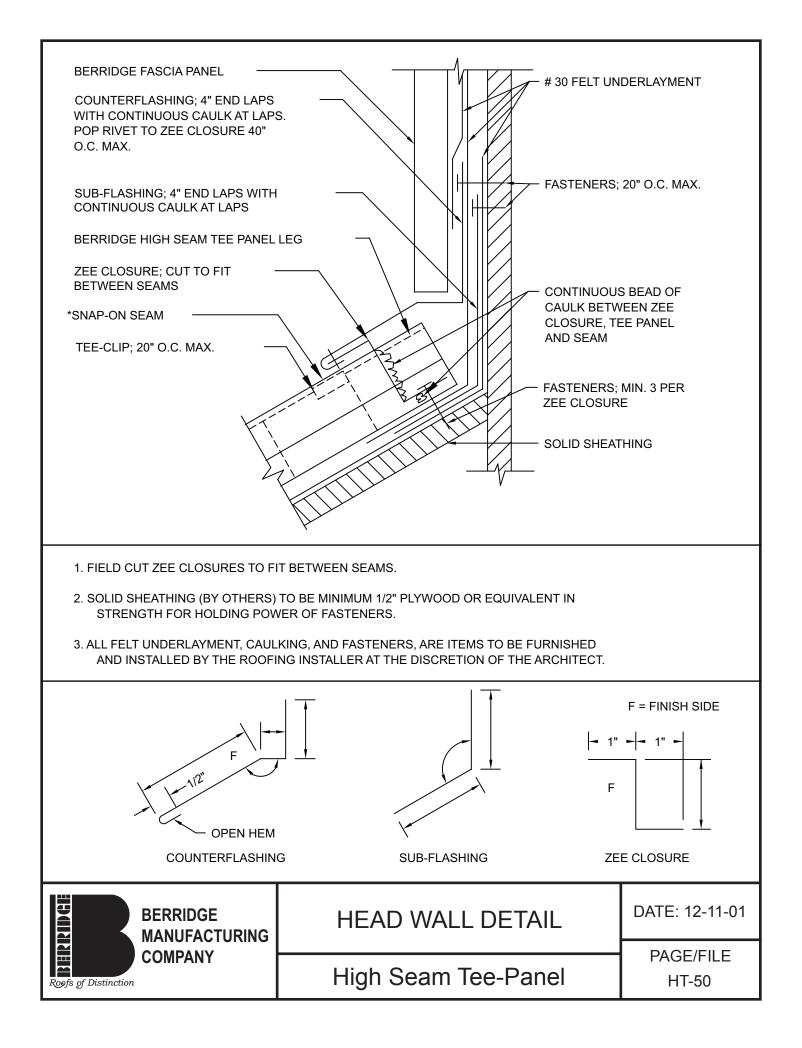




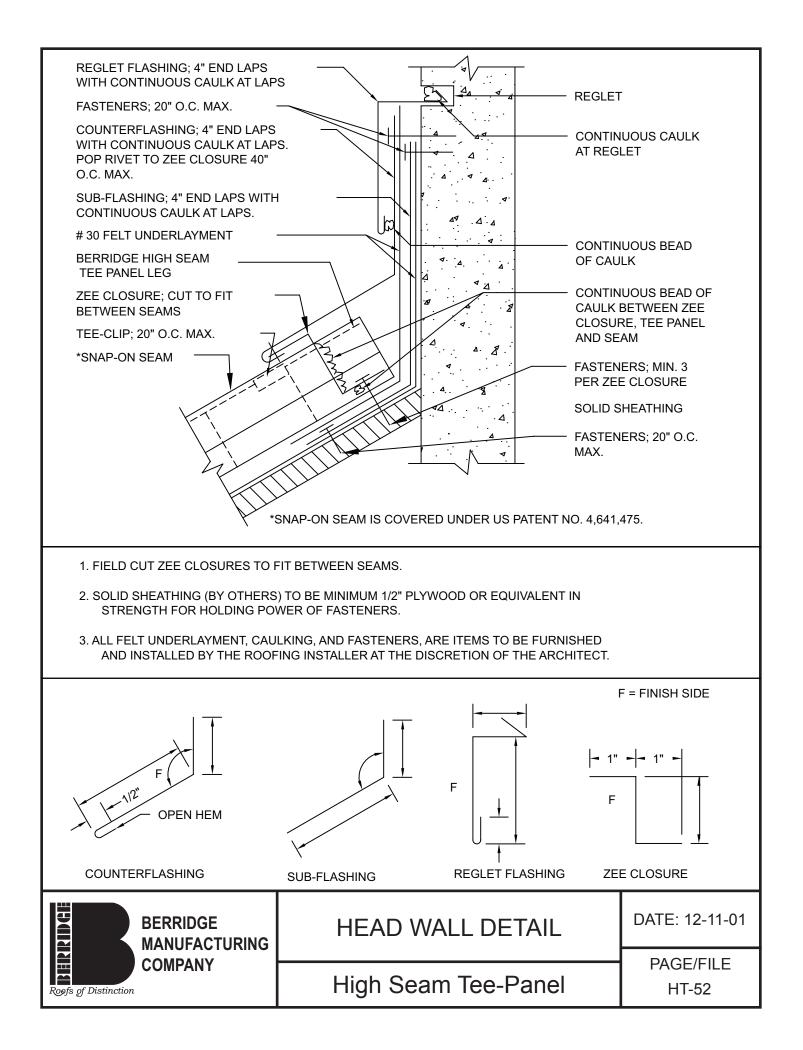


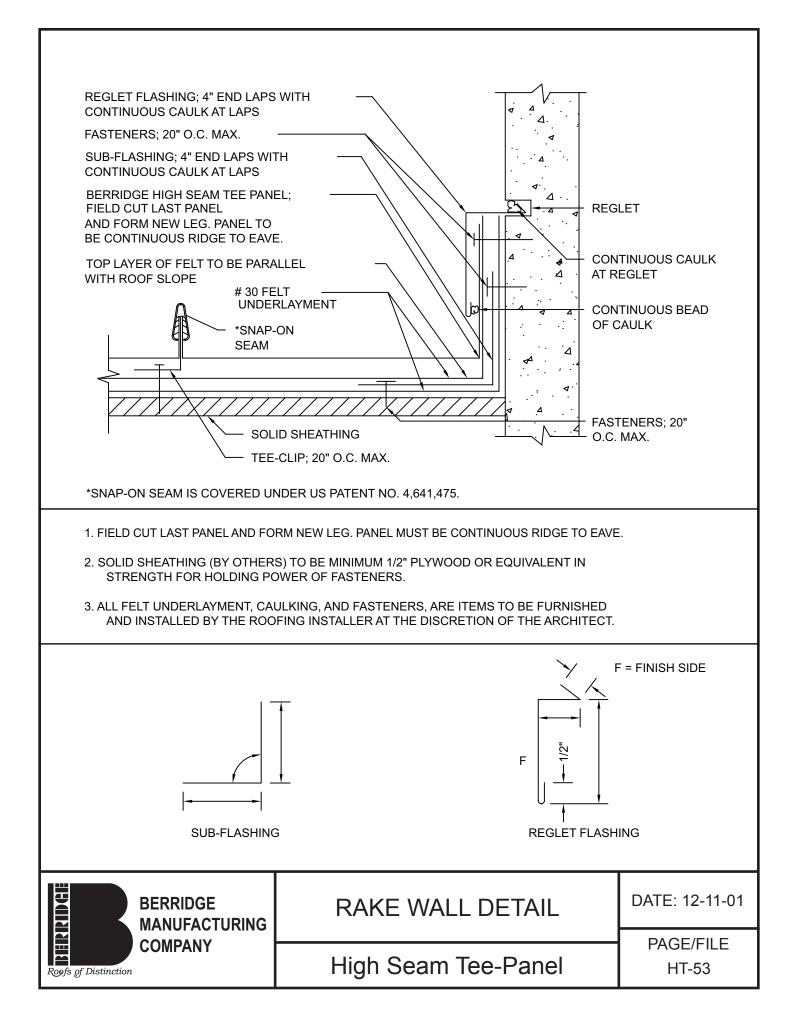


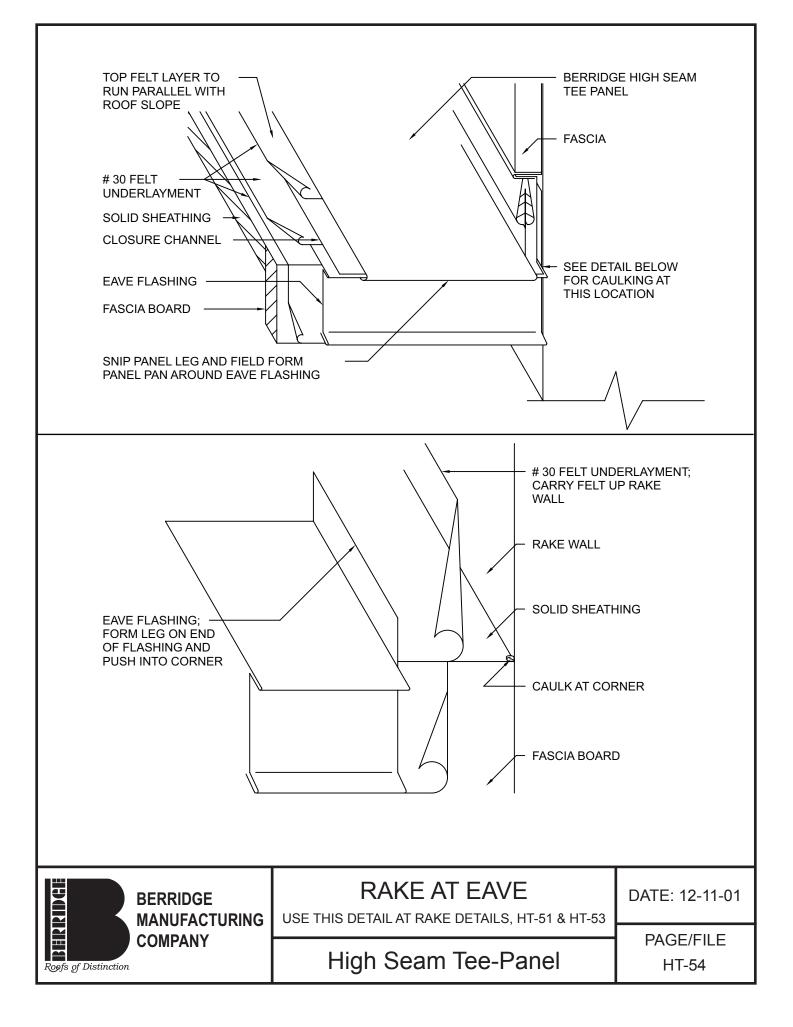


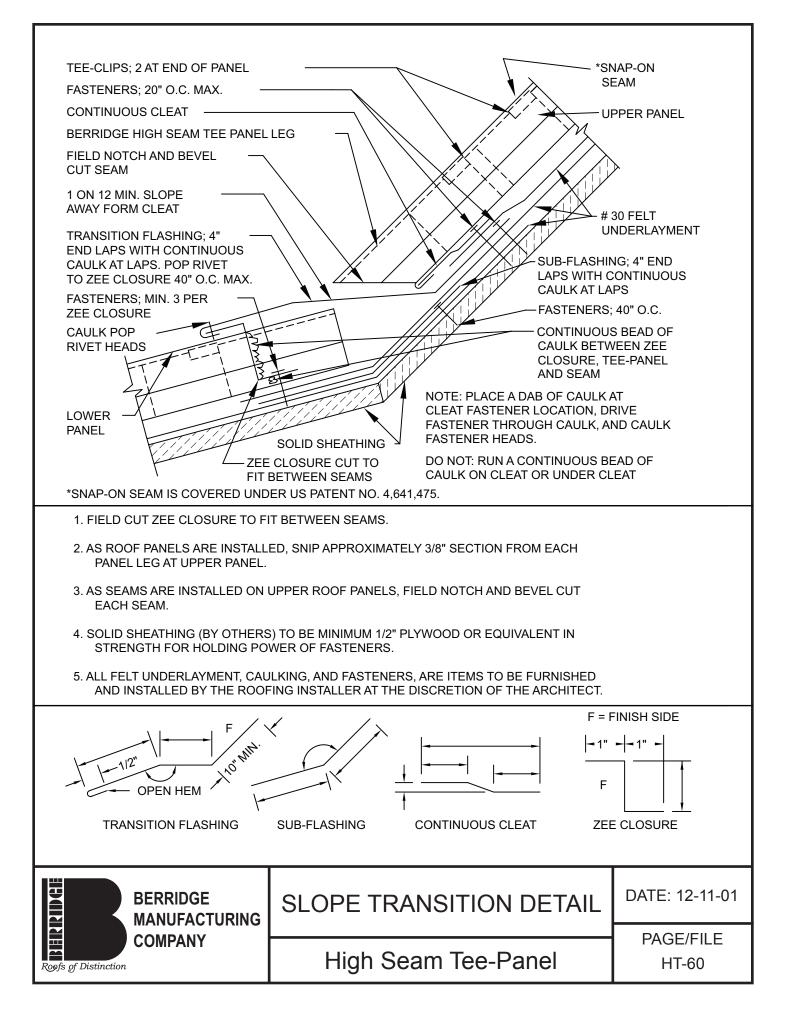


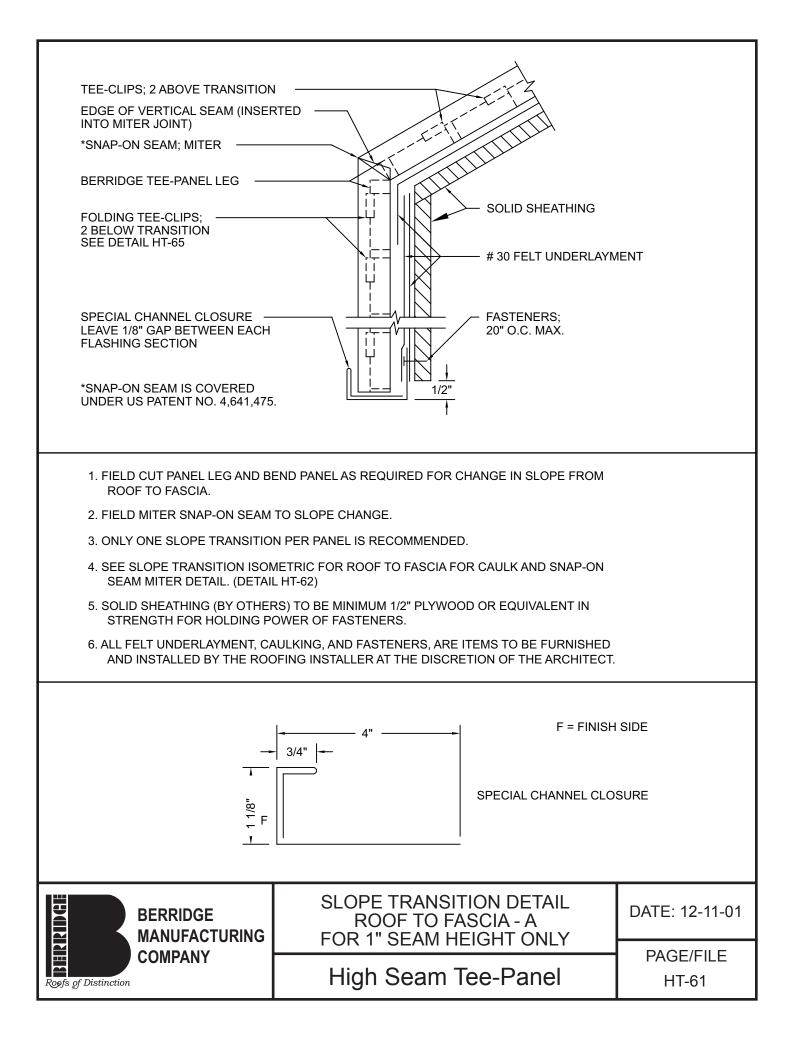
# 30 FELT UNDERLAYMENT	/_		
FASTENERS; 20" O.C. MAX			
CONTINUOUS BEAD OF CAULK		N	
*SNAP-ON SEAM		$\mathbb{N}$	
BERRIDGE HIGH SEAM TEE PA OR FIELD CUT LAST PANEL AN PANEL TO BE CONTINUOUS FR	D FORM NEW LEG.		
FASTENERS; 20" O.C. MAX.		N	
# 30 FELT UNDERLAYMENT			
TOP FELT LAYER TO RUN PARALLEL WITH ROOF SLOPE SOLID SHEATHING CLOSURE CHANNEL; 4" END LA CONTINUOUS CAULK AT LAPS	APS WITH SUB-FLASHING; 4" END LAPS WITH CONTINUOUS CAULK AT LAPS ED UNDER US PATENT NO. 4,641,475.		
1. FIELD CUT LAST PANEL AND I	FORM NEW LEG. PANEL MUST BE CONTINUOUS RIDGE TO EA	AVE.	
2. SOLID SHEATHING (BY OTH STRENGTH FOR HOLDING	ERS) TO BE MINIMUM 1/2" PLYWOOD OR EQUIVALENT IN POWER OF FASTENERS.		
	CAULKING, AND FASTENERS, ARE ITEMS TO BE FURNISHED DOFING INSTALLER AT THE DISCRETION OF THE ARCHITEC		
F 1/2" - OPEN HEM FLASHING			
BERRIDGE MANUFACTURING COMPANY	RAKE WALL DETAIL	DATE: 12-11-01	
Roofs of Distinction	High Seam Tee-Panel	PAGE/FILE HT-51	

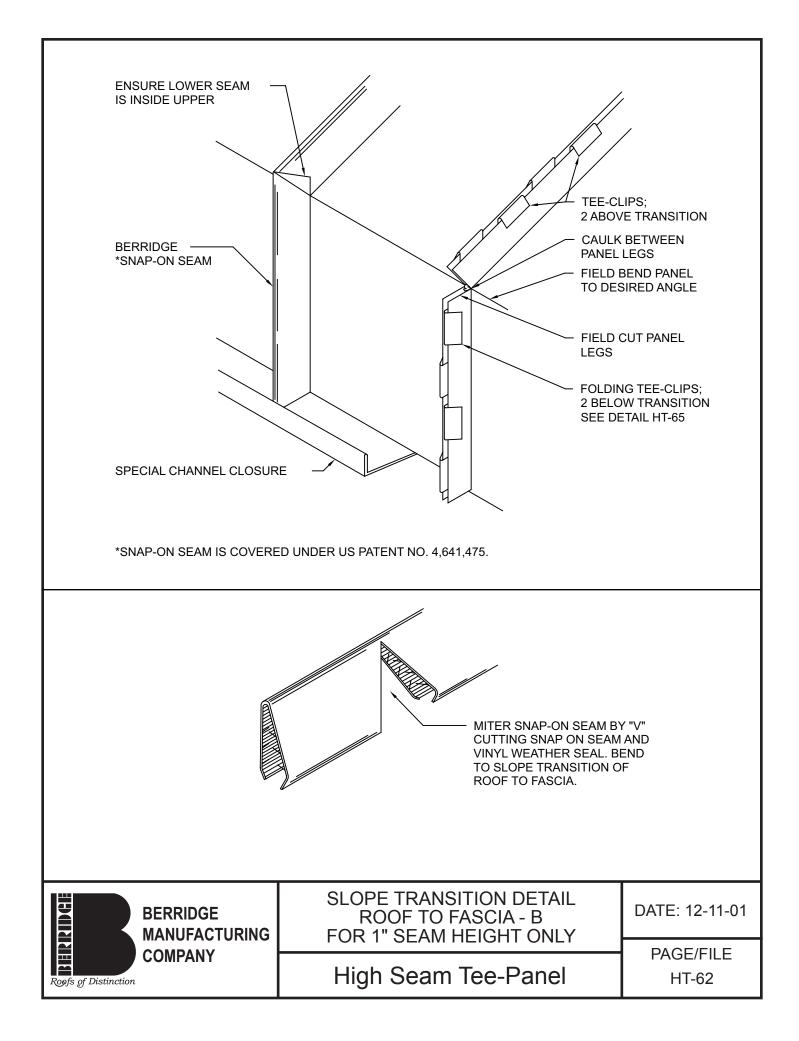


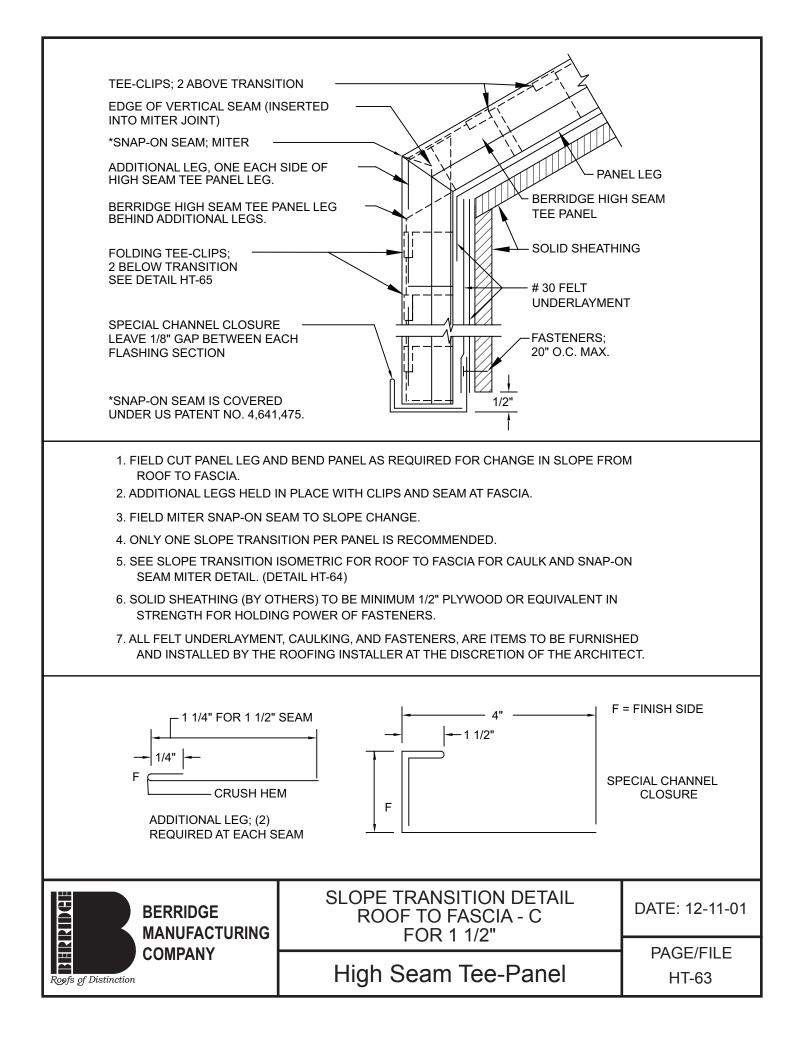


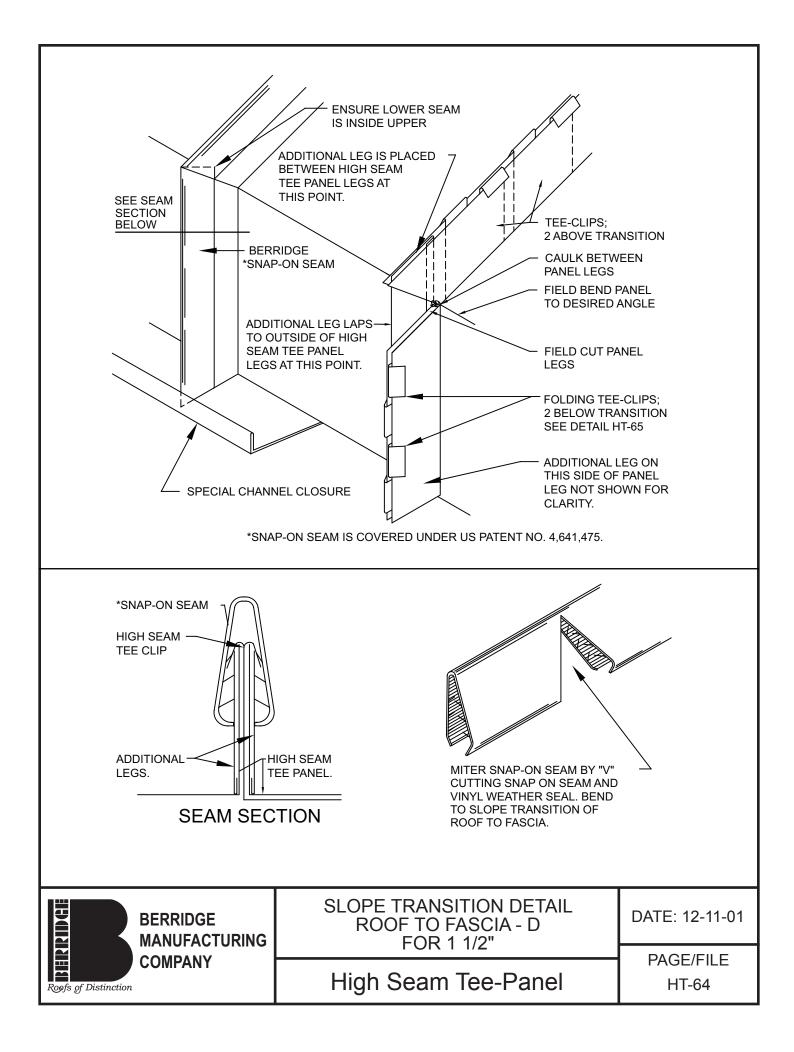


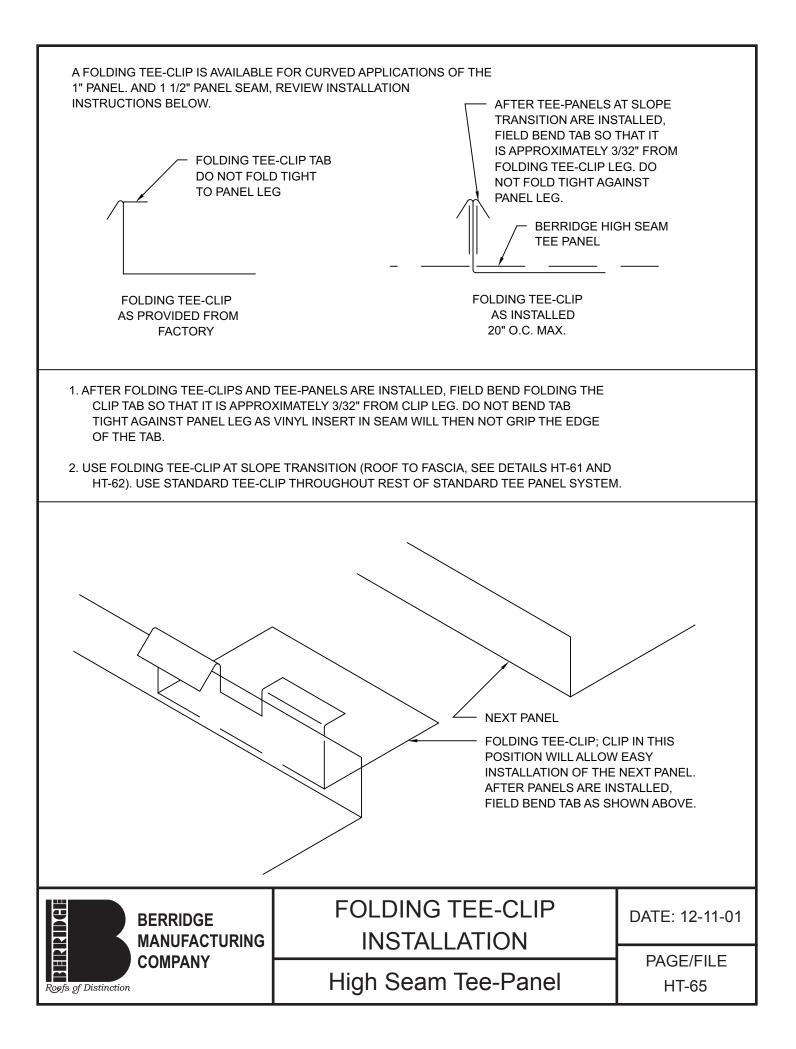


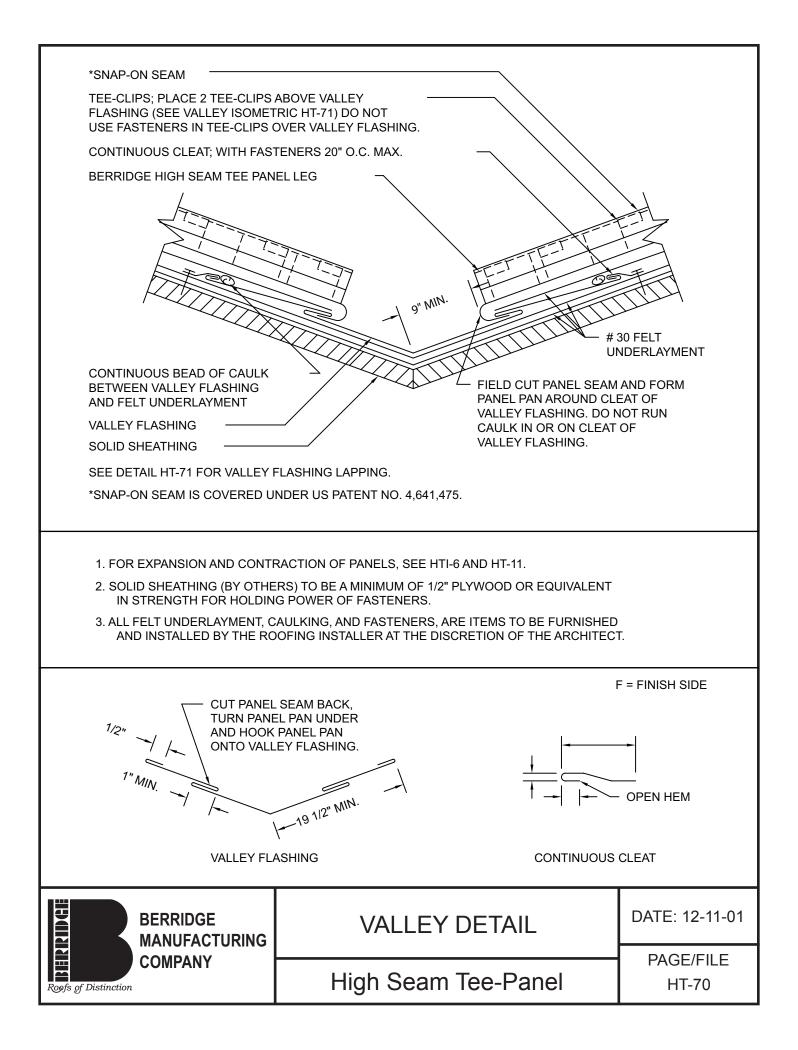


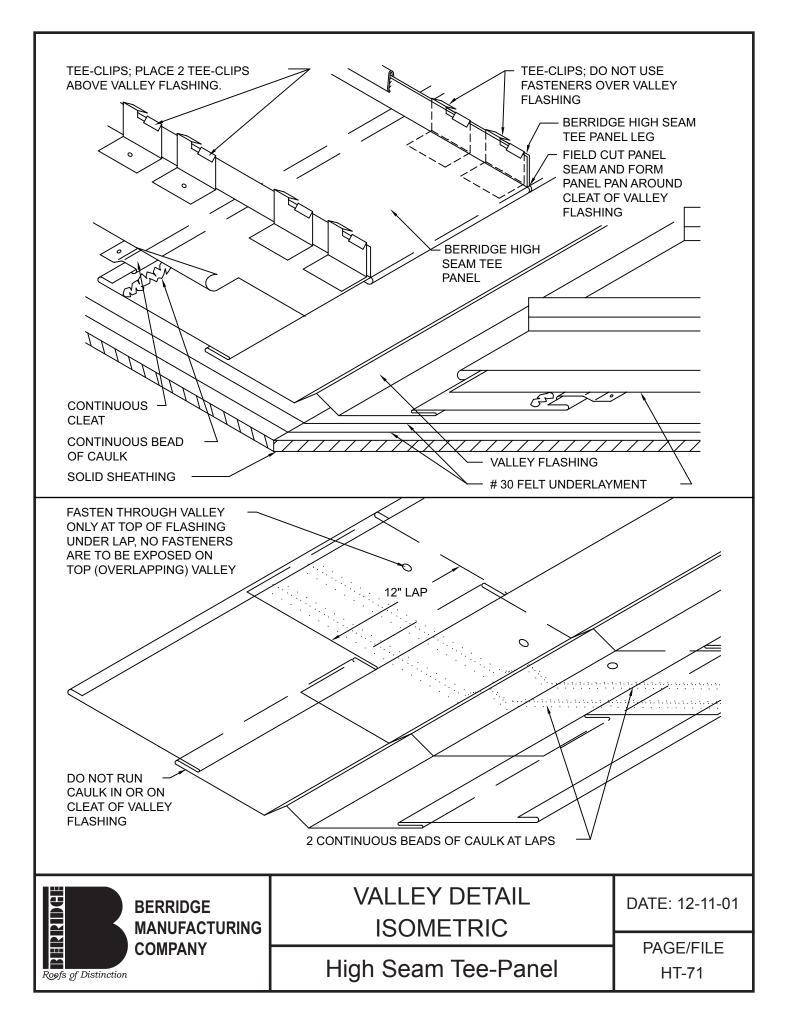


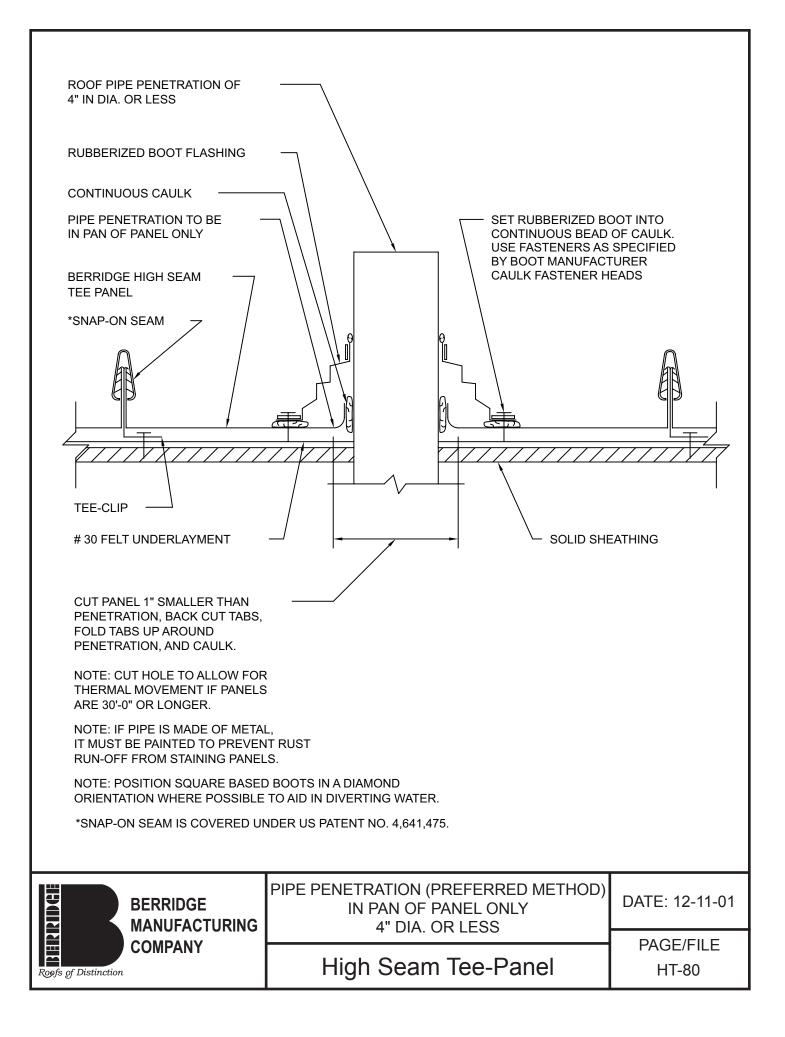


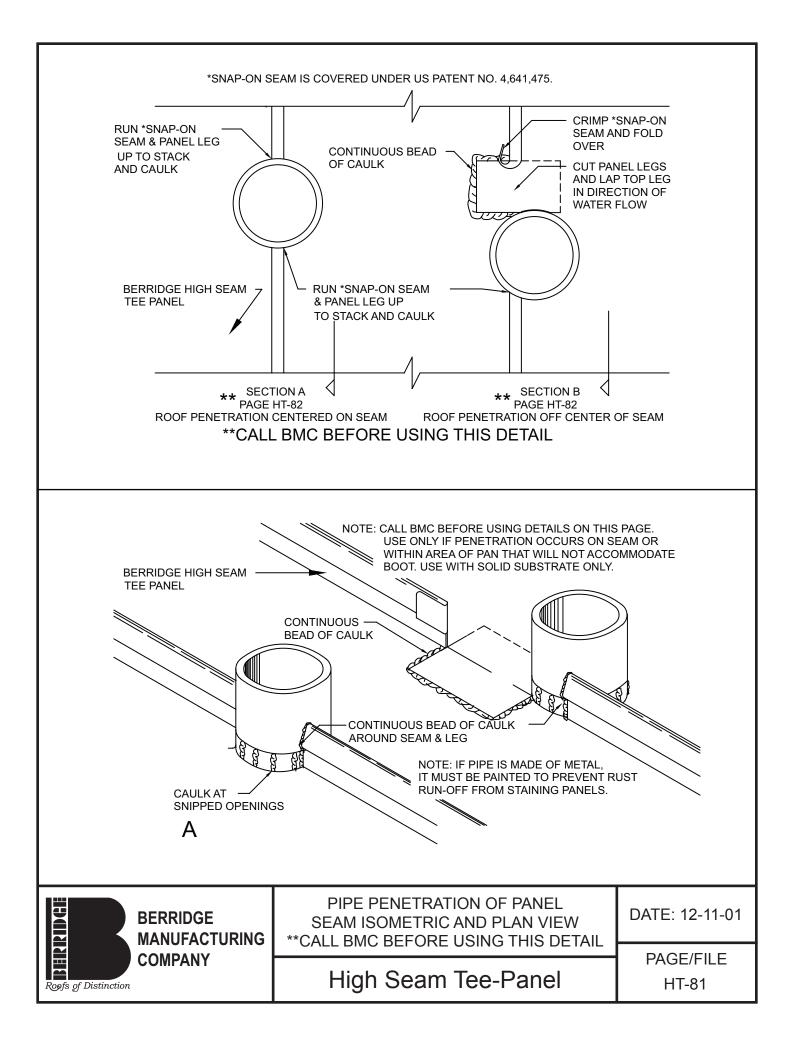


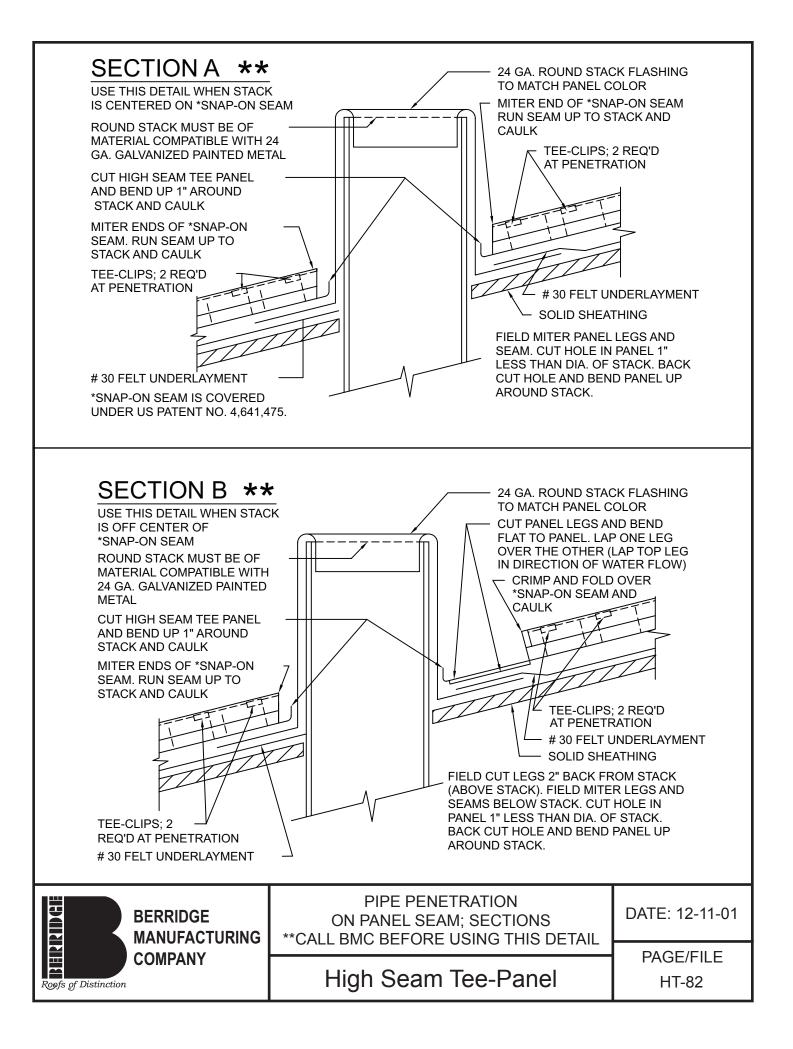


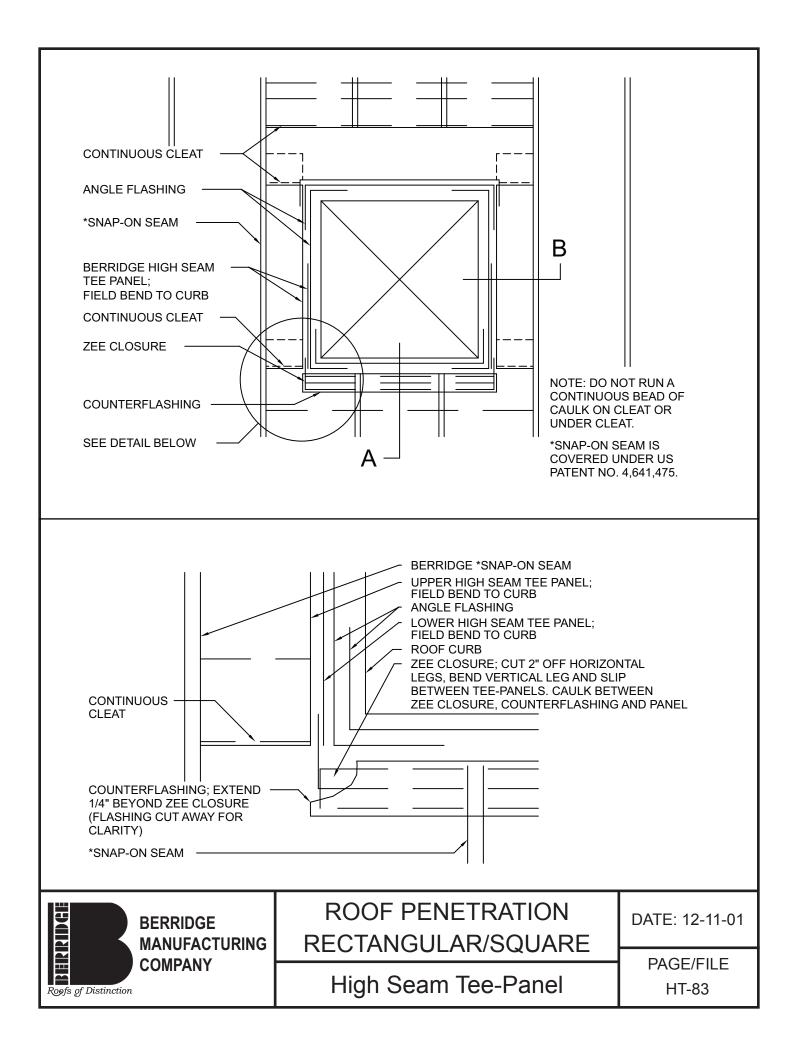


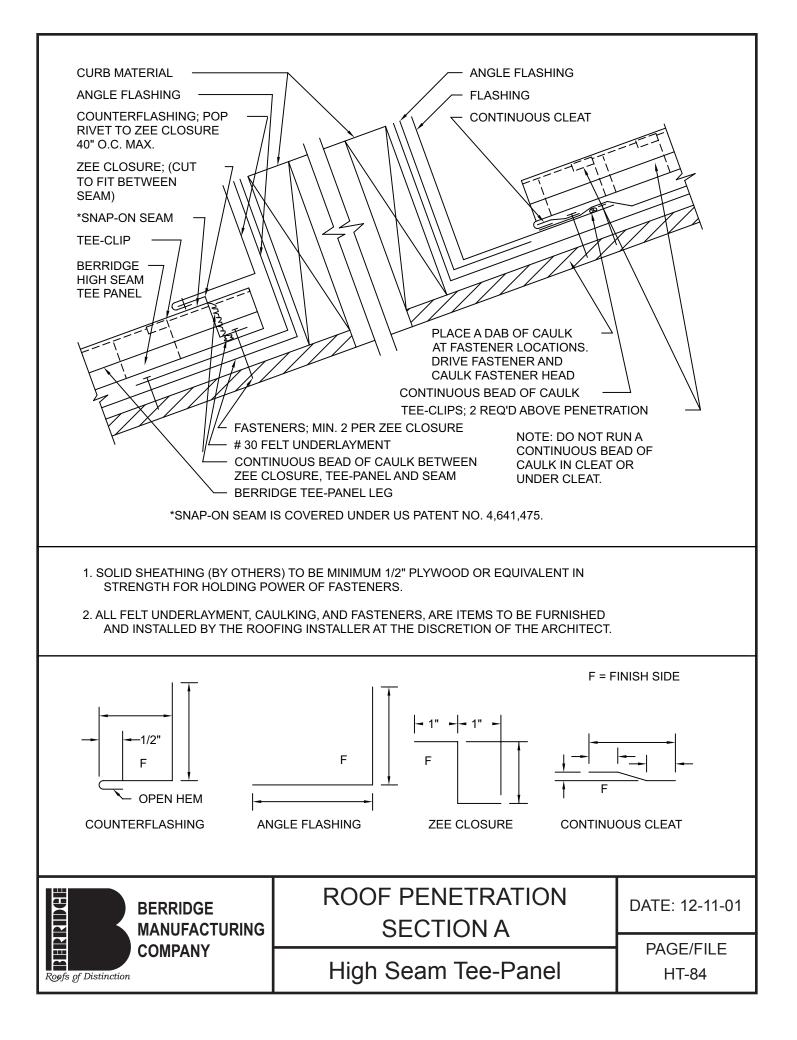


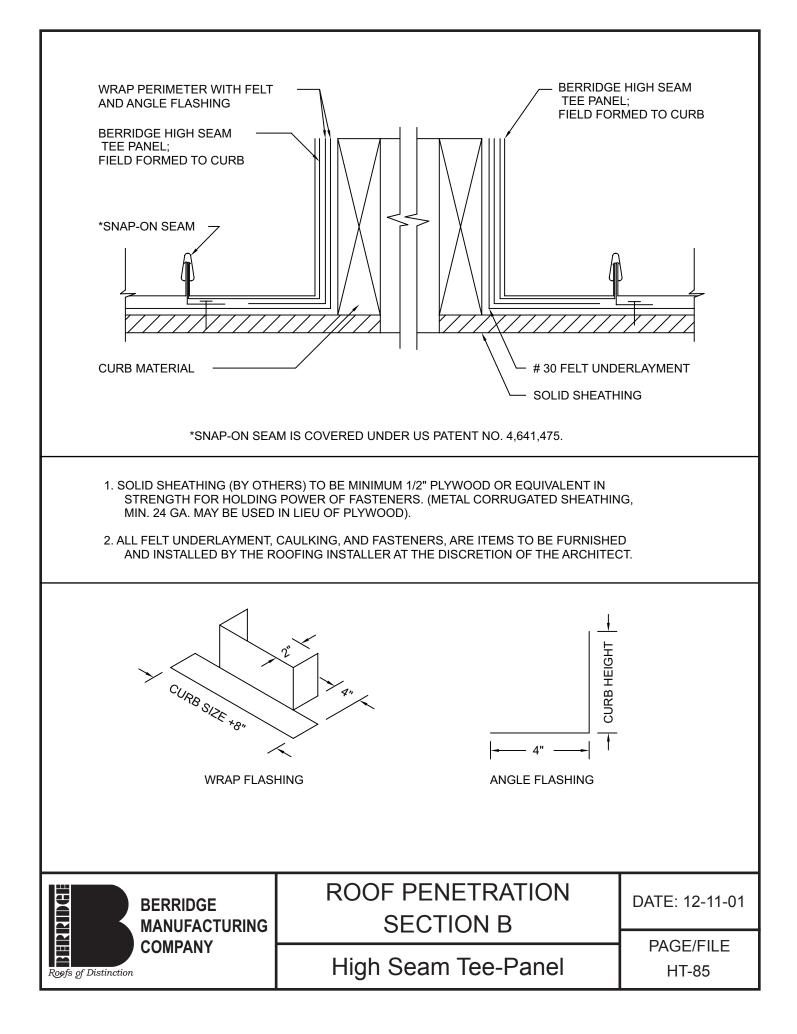


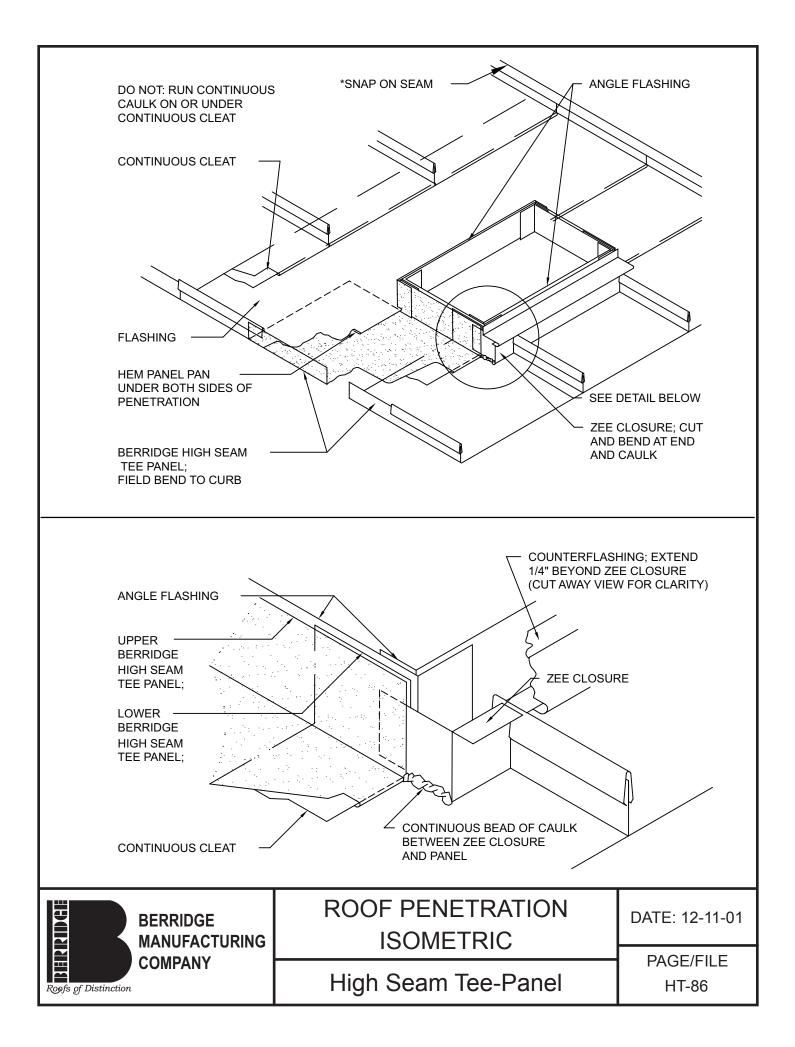


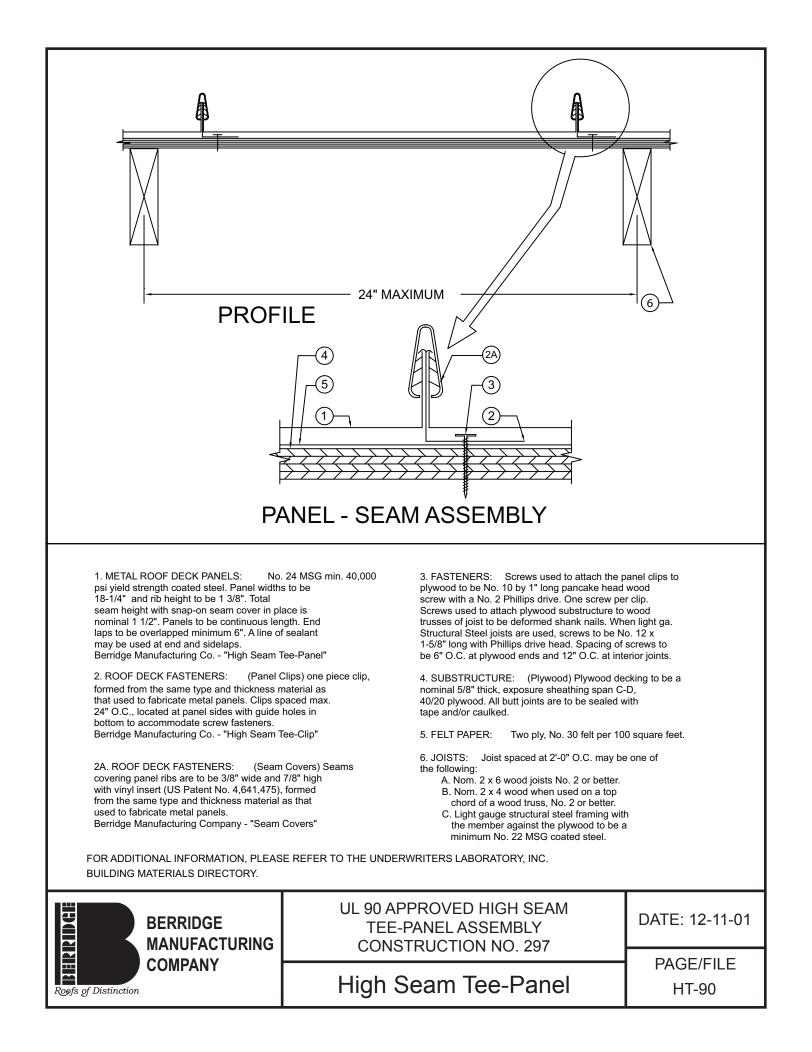


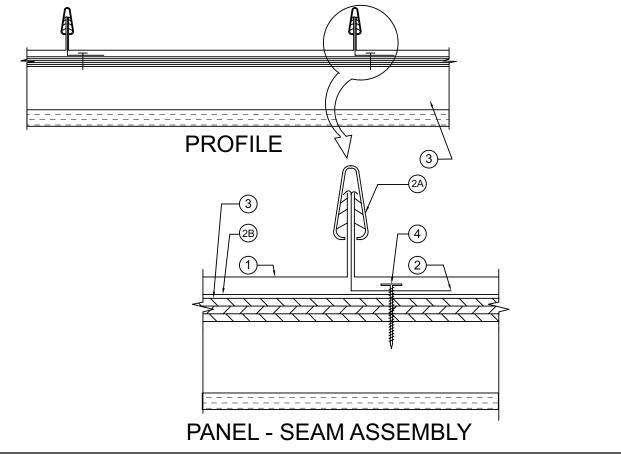












1. METAL ROOF DECK PANELS: No. 24 MSG min. 40,000 psi yield strength coated steel. Maximum panel width 18 1/4" and rib height to be 1 3/8". Total seam height with snap-on seam cover in place is nominal 1 1/2". Panels continuous over two or more spans. End laps are to be overlapped minimum 6". A line of sealant may be used at end and sidelaps. Berridge Manufacturing Co. - " High Seam Tee-Panel"

2. ROOF DECK FASTENERS: (Panel Clips) one piece assembly, fabricated from 24 MSG coated steel. Clips are spaced a maximum of 12 in. OC located at panel sides with guide holes in bottom to accommodate screw fasteners.

Berridge Manufacturing Co. - " High Seam Tee-Clip"

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 Co. - "Snap on Seam"

2B. FELT PAPER: Two ply, No. 30 felt per 100 square feet. 3. STRUCTURAL CEMENT-FIBER UNITS:

Consists of 5 in. thick composite structural cement fiber units with foamed plastic core and 7/16 in. OSB structural panel on one face. All transverse butt joints are to occur over structural support. Tectum, Inc. - "Type E or Type 3"

4. FASTENERS:

(Screws) - Scresw used to attach structural cement fiber units (item 3) to structural supports (item 5) to be 6 in. long minimum 14 MSG screw with a 5/8 in. diam head. Fasteners are spaced 12 in. OC. Screws used to attach roof deck fasteners (item 2) to structural cement fiber unit deck to be No. 10 pancake head self-tapping steel screws. Screws to be spaced maximum 12 in. OC. Fasteners used to attach roof deck fasteners (panel clips) (item 2) to plywood substructure to be No. 10 by 1 in. long pan head steel screws. Two screws per roof deck fastener.

## 5. SUPPORT (JOIST):

Cee channels to be spaced maximum 7 ft. 0 in. As alternatives, structural steel components (hot rolled beams, open web joist, etc.) may be used. min gauge and yield to depend on design comsiderations for uplift loading.

6. LATERAL BRACING: (Not shown) As required. Refer to General Information,

Roof Deck Constructions (Roofing Materials and Systems Directory) for items not evaluated.

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

	B
Roofs	of Distinction

BERRIDGE MANUFACTURING COMPANY UL 90 APPROVED HIGH SEAM TEE-PANEL ASSEMBLY CONSTRUCTION NO. 475

DAT	E:	12-1	11-	01

PAGE/FILE

## High Seam Tee-Panel

HT-91

BERRIDGE HIGH SEAM TEE PANEL TEE-CLIP; 20' O.C. (TYPICAL) WIO TEK SCREW (TYPICAL) ICE AND WATER SHIELD ICE						
<ol> <li>IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE 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.</li> <li>THIS ASSEMBLY QUALIFIES FOR THE FOLLOWING UL FIRE-RESISTANT ROOF ASSEMBLIES: UL DESIGN NO. P224, P225, P227, P230, P237, P250, P259, P508, P510, P512, P514, P518, P701, P711, P713, P717, P719, P720, P722, P723, P724, P726, P731, P734, P736, P801, P803, P814, P815, P818, P819, P823, AND P824.</li> <li>ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.</li> </ol>						
BERRIDGE MANUFACTURING COMPANY	UL FIRE RESISTANCE ROOF ASSEMBLY	DATE: 12-11-01				
Roofs of Distinction	High Seam Tee-Panel	PAGE/FILE HT-100				

BERRIDGE HIGH SEAM TEE PANEL TEE-CLIP; 20" O.C. (TYPICAL) #10 TEK SCREW (TYPICAL) ICE AND WATER SHIELD ICE AND WATER SHIELD GYPSUM WALLBOARD MINERAL OR FIBER BOARD INSULATION					
<ol> <li>IN ORDER TO QUALIFY FOR A FIRE-RESISTANT RATING, THE ROOF SYSTEM CANNOT MAKE A PENETRATION IN THE INSULATION SYSTEM. THE 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.</li> <li>THIS ASSEMBLY QUALIFIES FOR THE UL FIRE-RESISTANT ROOF ASSEMBLY: P512.</li> <li>ADDITIONAL INFORMATION REGARDING THIS ASSEMBLY IS AVAILABLE IN THE UL FIRE RESISTANCE DIRECTORY.</li> </ol>					
BERRIDGE MANUFACTURING COMPANY	UL FIRE RESISTANCE ROOF ASSEMBLY	DATE: 12-11-01			
Roofs of Distinction	High Seam Tee-Panel	PAGE/FILE HT-101			

