

SL150 Standing Seam

Master Details

Architectural / Solid Substrate / Steep Slope - Plywood Substrate -

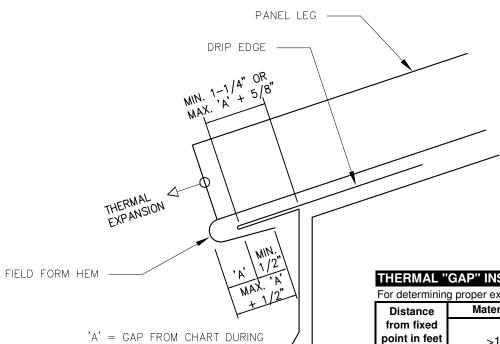
The following details are sample details commonly used over steep sloped applications including those over solid substrates such as plywood or steel decking with rigid insulation. Such details are largely based on hydrokinetic (water shedding) design principles and architectural detailing.







Thermal Gap Installation Chart	SL150-INF0-1.00
Extended Eave	SL150-PS-1.00
Extended Eave with Gutter	SL150-PS-1.10
Gable Detail - Extended Drip Style	SL150-PS-2.10
Gable Detail - Box Style	SL150-PS-2.30
Valley Detail - Integral Cleat	SL150-PS-3.10
Valley Lap Detail	SL150-PS-3.10a
Valley - with Offset Cleat	SL150-PS-3.20
Hip and Ridge Detail	SL150-PS-4.10
Vented Ridge Detail	SL150-PS-4.40
Peak Detail	SL150-PS-5.10
Peak Detail - with Wall Panels	SL150-PS-5.40
Headwall Detail - Reglet	SL150-PS-6.11
Headwall Detail - Parapet Coping	SL150-PS-6.20
Sidewall Detail - Reglet	SL150-PS-7.11
Sidewall Detail - Surface Mount	SL150-PS-7.12
Sidwall Detail - Reglet	SL150-PS-7.21
Sidewall Detail - Surface Mount	SL150-PS-7.22
Pipe Penetration	SL150-PS-10.10



THERMAL "GAP" INSTALLATION CHART (In inches) - STEEL

For determining proper expansion/contraction gap at panel ends during installation

Distance	Material Temperature (Surface Temperature) During Installation					
from fixed	Hot		Warm		Cold	
point in feet	>100°F		100° to 50° F		<50°F	
10	0.145	1/8	0.072	1/16	0.000	0
20	0.289	5/16	0.145	1/8	0.000	0
30	0.434	7/16	0.217	3/16	0.125	1/8
40	0.579	9/16	0.289	5/16	0.125	1/8
50	0.724	3/4	0.362	3/8	0.188	3/16
60	0.868	7/8	0.434	7/16	0.188	3/16
70	1.013	1	0.507	1/2	0.250	1/4
80	1.158	1 3/16	0.579	9/16	0.250	1/4
90	1.302	1 5/16	0.651	5/8	0.375	3/8
100	1.447	1 7/16	0.724	3/4	0.375	3/8

^{*} Chart based on temperature differential of:

UNION CORRUGATING COMPANY

THERMAL GAP INSTALLATION CHART

etail No.:

SL150-INFO-1.00

GENERAL INFORMATION

Project Name: Location:

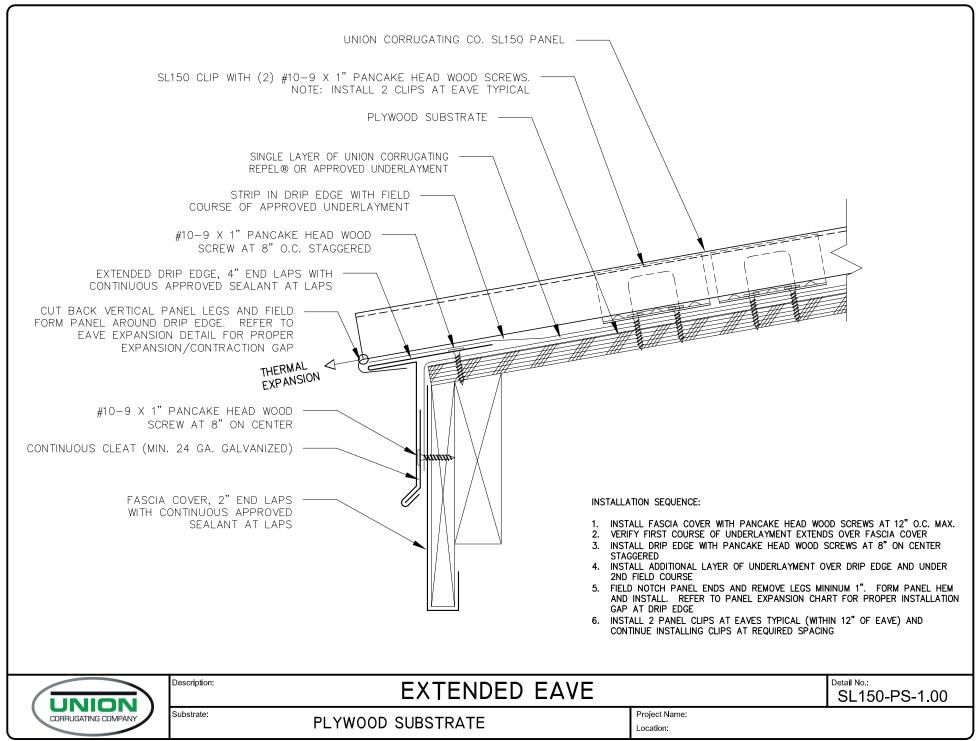
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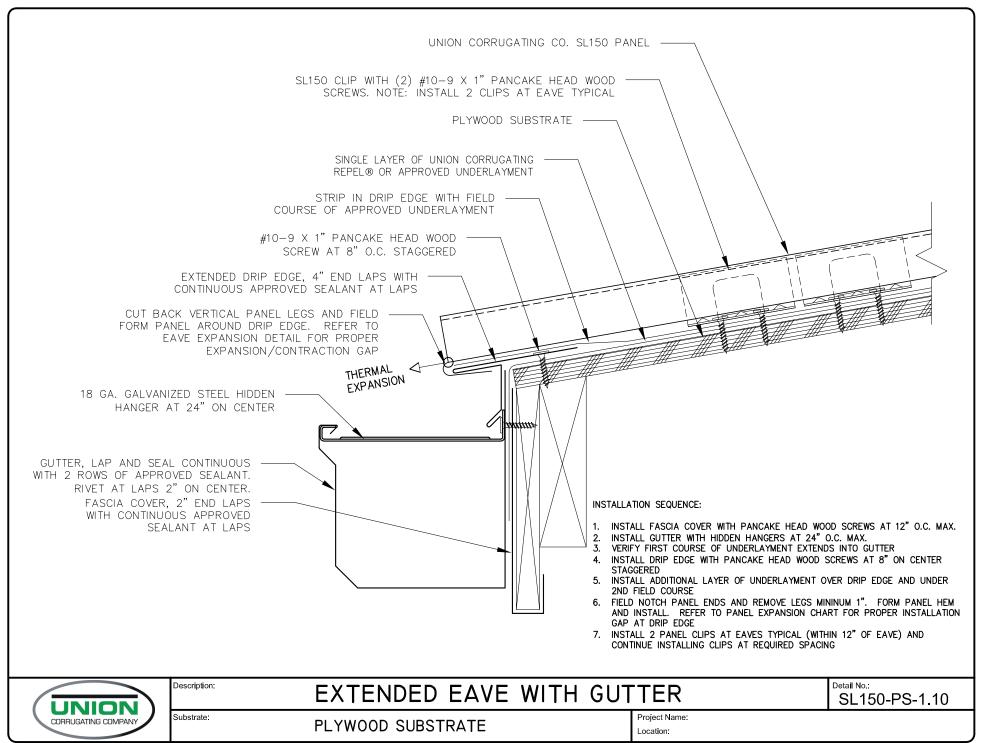
Substrate:

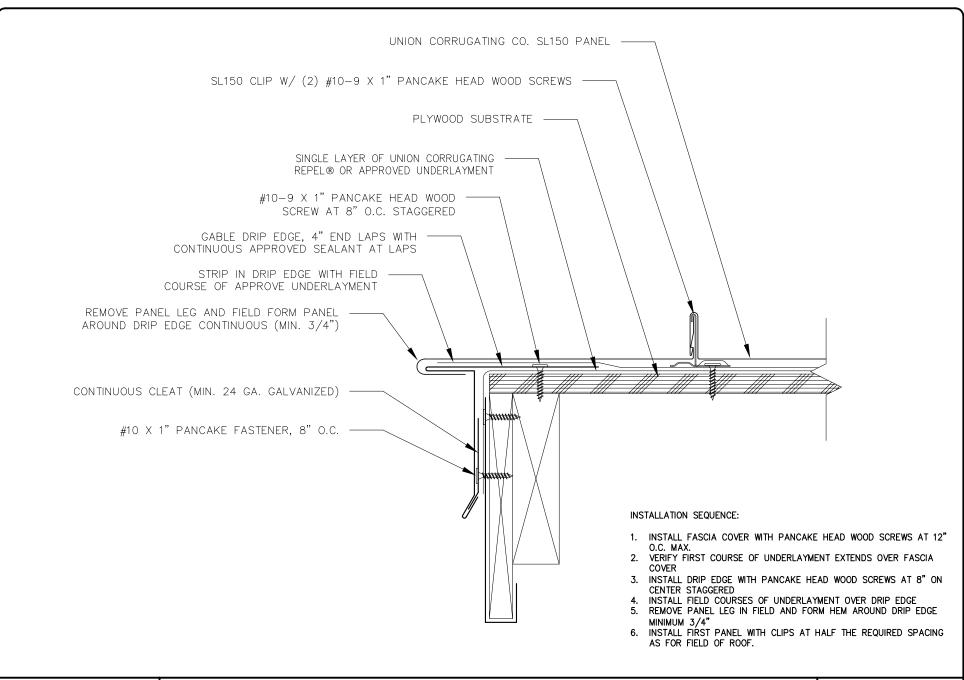
TIME OF INSTALLATION

¹⁸⁰ degrees F

^{*} Coefficient of thermal expansion for steel: 0.0000067









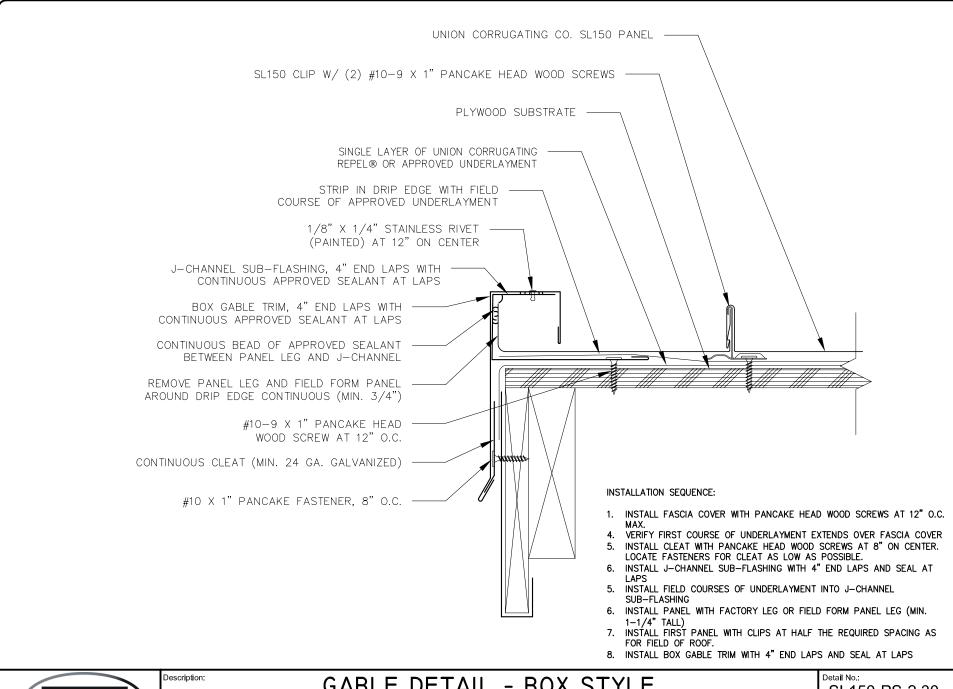
GABLE DETAIL - EXTENDED DRIP STYLE

Detail No.:

SL150-PS-2.10

Substrate:

PLYWOOD SUBSTRATE





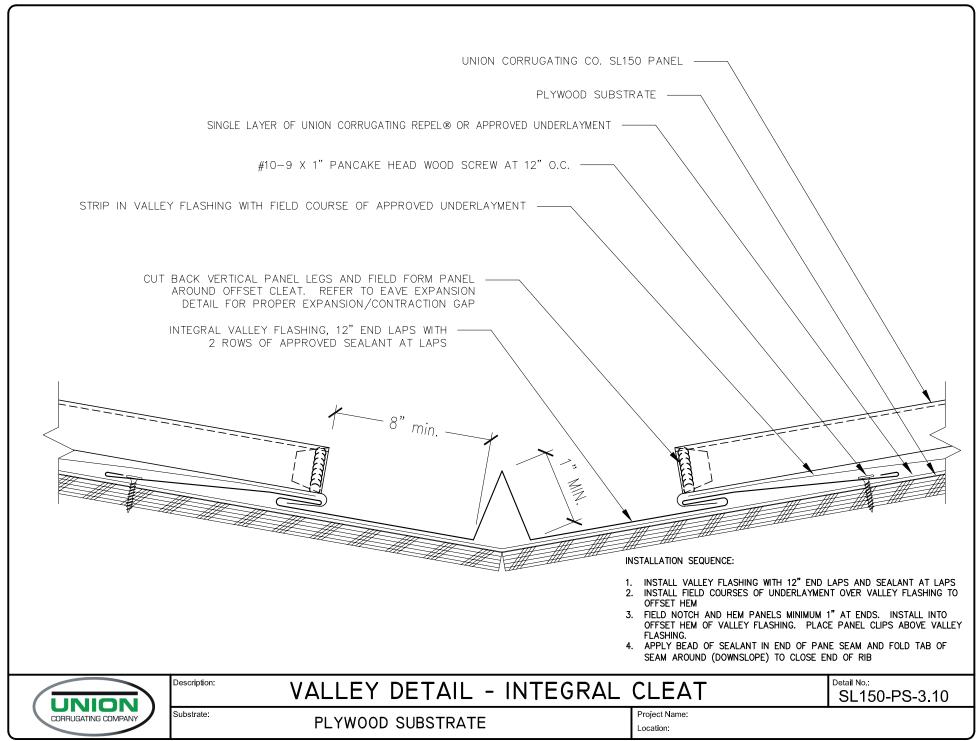
GABLE DETAIL - BOX STYLE

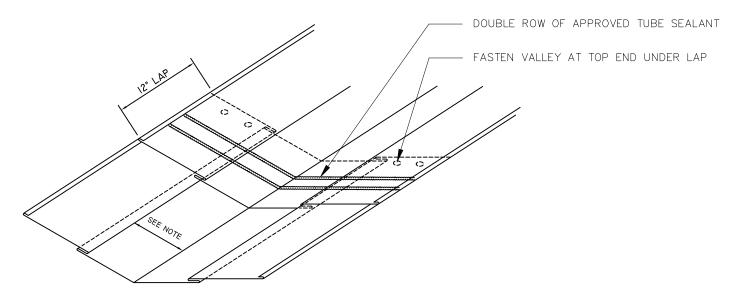
SL150-PS-2.30

PLYWOOD SUBSTRATE

Project Name: Location:

Substrate:





TELESCOPING VALLEY FLASHING LAP

NOTE: EACH VALLEY SECTION IS MADE PROGRESSIVELY SMALLER TO ALLOW UPPER SECTION TO INSERT INTO LOWER SECTION. NO FIELD NOTCHING AT LAP.

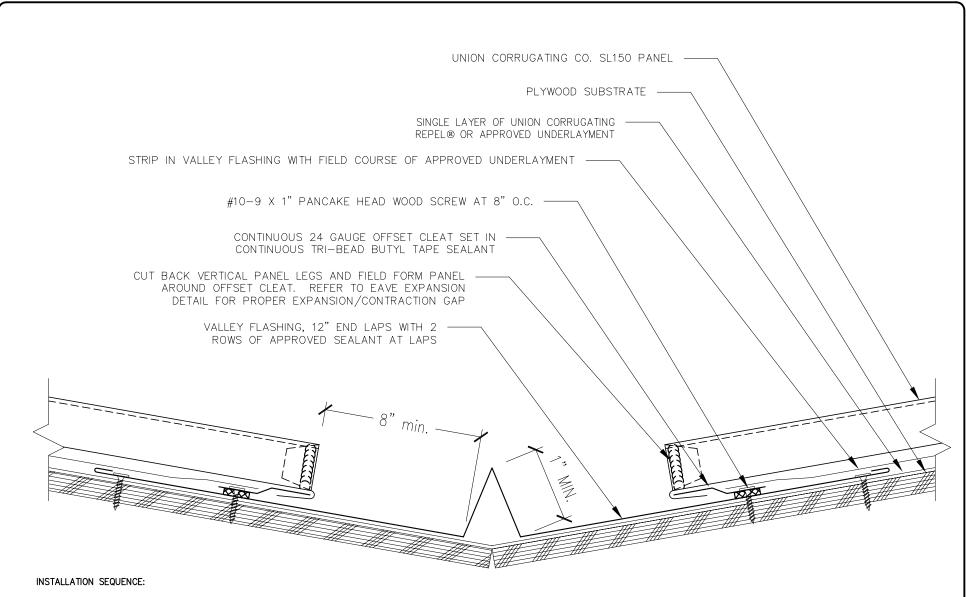


VALLEY LAP DETAIL

tail No.:

SL150-PS-3.10a

Substrate: PLYWOOD SUBSTRATE



1. INSTALL VALLEY FLASHING WITH 12" END LAPS AND SEALANT AT LAPS

Description:

- 2. INSTALL CONTINUOUS OFFSET CLEAT 8" MIN. FROM CENTER OF VALLEY, SET IN BEAD OF TAPE
- 3. INSTALL FIELD COURSES OF UNDERLAYMENT OVER VALLEY FLASHING TO OFFSET HEM
- 4. FIELD NOTCH AND HEM PANELS MINIMUM 1" AT ENDS. INSTALL INTO OFFSET HEM OF VALLEY FLASHING. PLACE PANEL CLIPS ABOVE VALLEY FLASHING.
- 5. APPLY BEAD OF SEALANT IN END OF PANE SEAM AND FOLD TAB OF SEAM AROUND (DOWNSLOPE) TO CLOSE END OF RIB



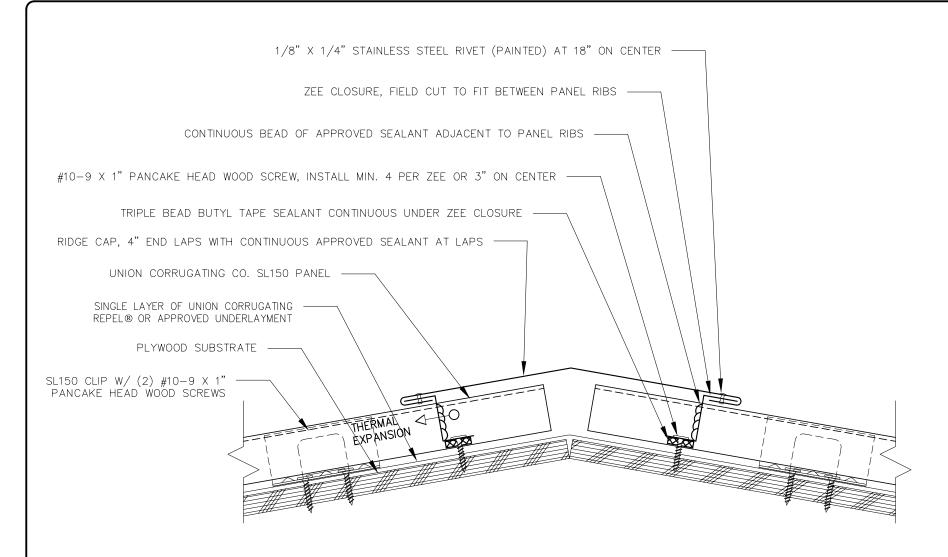
VALLEY - WITH OFFSET CLEAT

SL150-PS-3.20

Detail No.:

Substrate: PLYWOOD SUBSTRATE

Location:



INSTALLATION SEQUENCE:

- 1. WITH PANELS COMPLETELY INSTALLED OVER SUBSTRATE, LOCATE POSITION OF ZEE CLOSURES AND MARK THE REQUIRED LOCATION
- 2. FIELD CUT ZEE CLOSURES TO FIT BETWEEN PANEL RIBS AND SET IN CONTINUOUS BEAD OF TAPE SEALANT
- 3. USE MINIMUM 4 SCREWS PER ZEE CLOSURE OR AT 3" ON CENTER. VERIFY CLOSURE IS FREE OF GAPS OR VOIDS ADJACENT TO PANEL
- 4. APPLY BEAD OF SEALANT UP EACH SIDE OF ZEE CLOSURE ADJACENT TO PANEL LEGS
- 5. INSTALL HIP OR RIDGE COVER WITH 4" END LAPS AND SEAL AT LAPS. RIVET CAP TO ZEES AT 18" ON CENTER BOTH SIDES



HIP AND RIDGE DETAIL

Project Name:

Location:

etail No.:

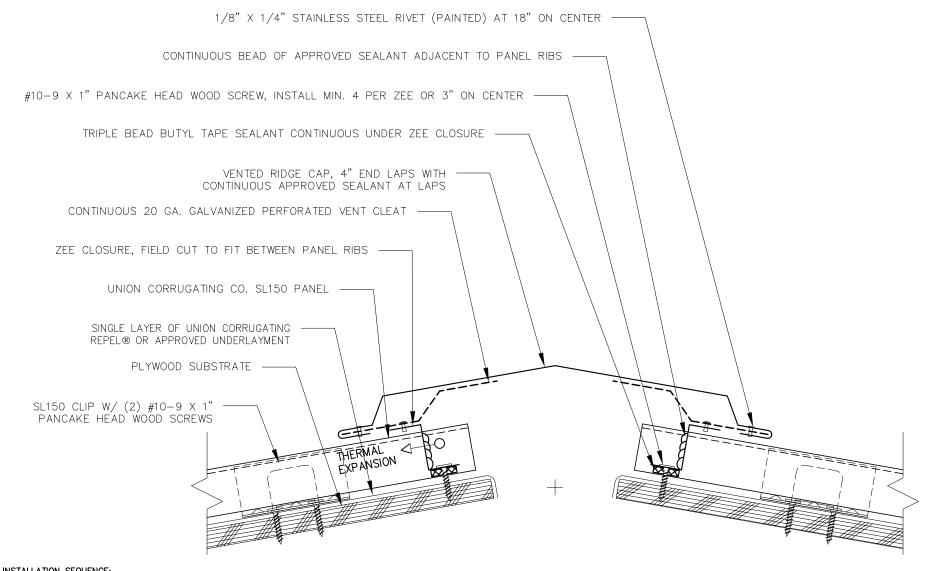
SL150-PS-4.10

PLYWOOD SUBSTRATE

WOOD SUBSTRATE

Description:

Substrate:



INSTALLATION SEQUENCE:

- 1. WITH PANELS COMPLETELY INSTALLED OVER SUBSTRATE, LOCATE POSITION OF ZEE CLOSURES AND MARK THE REQUIRED LOCATION
- 2. FIELD CUT ZEE CLOSURES TO FIT BETWEEN PANEL RIBS AND SET IN CONTINUOUS BEAD OF TAPE SEALANT
- 3. USE MINIMUM 4 SCREWS PER ZEE CLOSURE OR AT 3" ON CENTER. VERIFY CLOSURE IS FREE OF GAPS OR VOIDS ADJACENT TO PANEL
- 4. APPLY BEAD OF SEALANT UP EACH SIDE OF ZEE CLOSURE ADJACENT TO PANEL LEGS

Description:

Substrate:

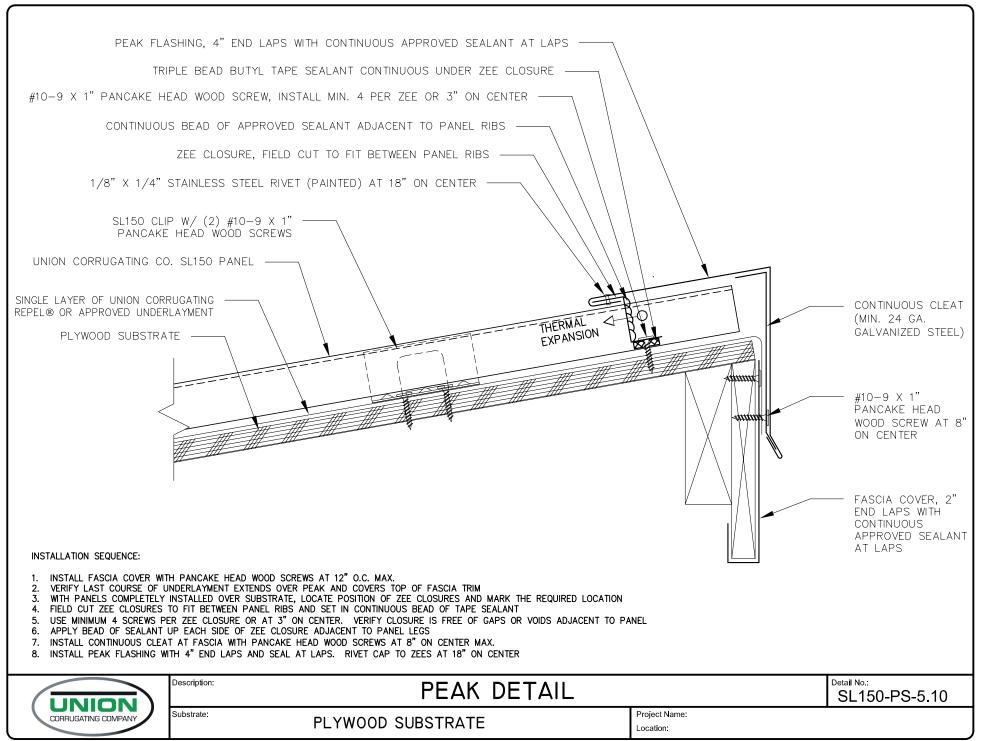
- 5. INSTALL CONTINUOUS SECTIONS OF PERFORATED VENT CLEAT TO TOP OF ZEE CLOSURES WITH RIVETS AT 12" ON CENTER
- 6. INSTALL HIP OR RIDGE COVER WITH 4" END LAPS AND SEAL AT LAPS. RIVET CAP TO ZEES AT 18" ON CENTER BOTH SIDES

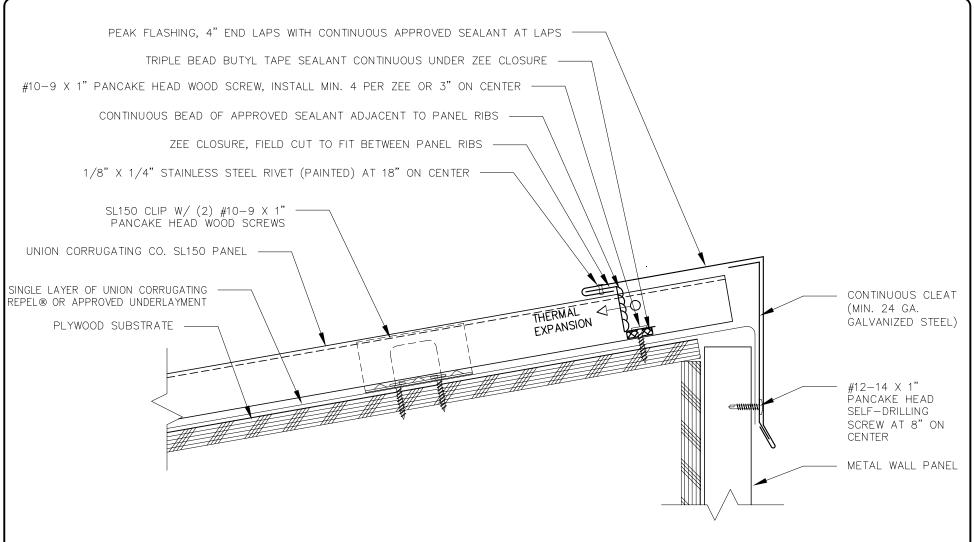


VENTED RIDGE DETAIL

SL150-PS-4.40

PLYWOOD SUBSTRATE





INSTALLATION SEQUENCE:

- 1. INSTALL WALL PANELS AS REQUIRED
- 2. VERIFY LAST COURSE OF UNDERLAYMENT EXTENDS OVER PEAK AND COVERS TOP OF WALL PANELS
- 3. WITH PANELS COMPLETELY INSTALLED OVER SUBSTRATE, LOCATE POSITION OF ZEE CLOSURES AND MARK THE REQUIRED LOCATION
- 4. FIELD CUT ZEE CLOSURES TO FIT BETWEEN PANEL RIBS AND SET IN CONTINUOUS BEAD OF TAPE SEALANT
- 5. USE MINIMUM 4 SCREWS PER ZEE CLOSURE OR AT 3" ON CENTER. VERIFY CLOSURE IS FREE OF GAPS OR VOIDS ADJACENT TO PANEL
- 6. APPLY BEAD OF SEALANT UP EACH SIDE OF ZEE CLOSURE ADJACENT TO PANEL LEGS

Description:

- 7. INSTALL CONTINUOUS CLEAT AT FASCIA WITH PANCAKE HEAD SELF-DRILLING SCREWS AT 8" ON CENTER MAX.
- 8. INSTALL PEAK FLASHING WITH 4" END LAPS AND SEAL AT LAPS. RIVET CAP TO ZEES AT 18" ON CENTER



PEAK DETAIL - WITH WALL PANELS

SL150-PS-5.40

Substrate: PLYWOOD SUBSTRATE

