

## **SL150 Standing Seam**

## **Master Details**

Architectural / Solid Substrate / Steep Slope - Rigid Insulation over Metal Decking -

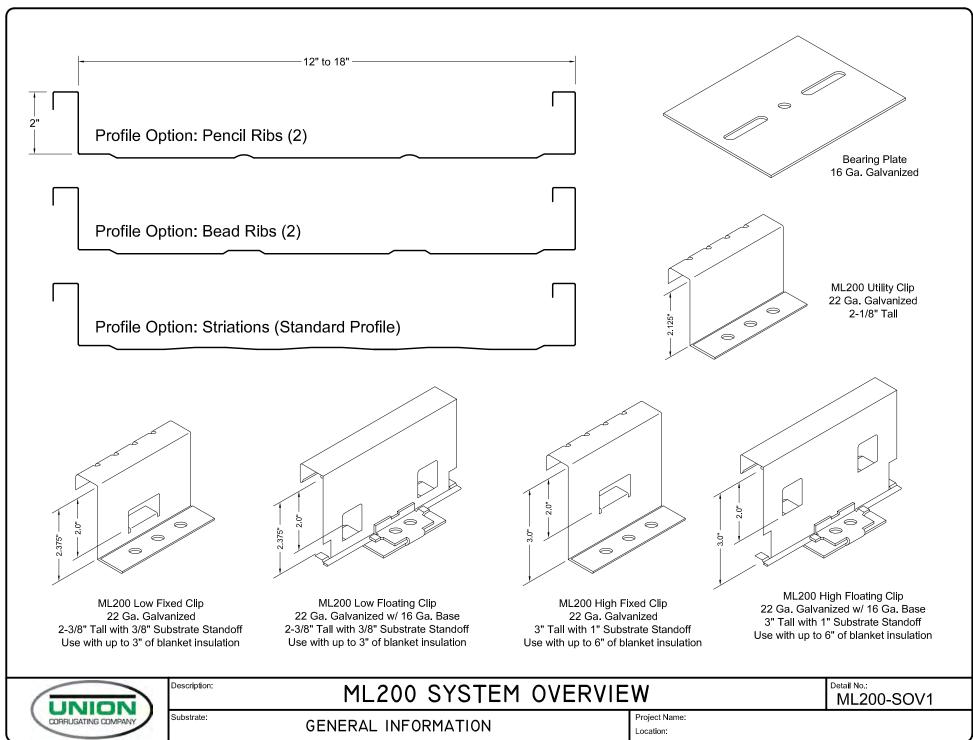
The following details are sample details commonly used over steep sloped applications including those over solid substrates such as plywood or steel decking with rigid insulation. Such details are largely based on hydrokinetic (water shedding) design principles and architectural detailing.

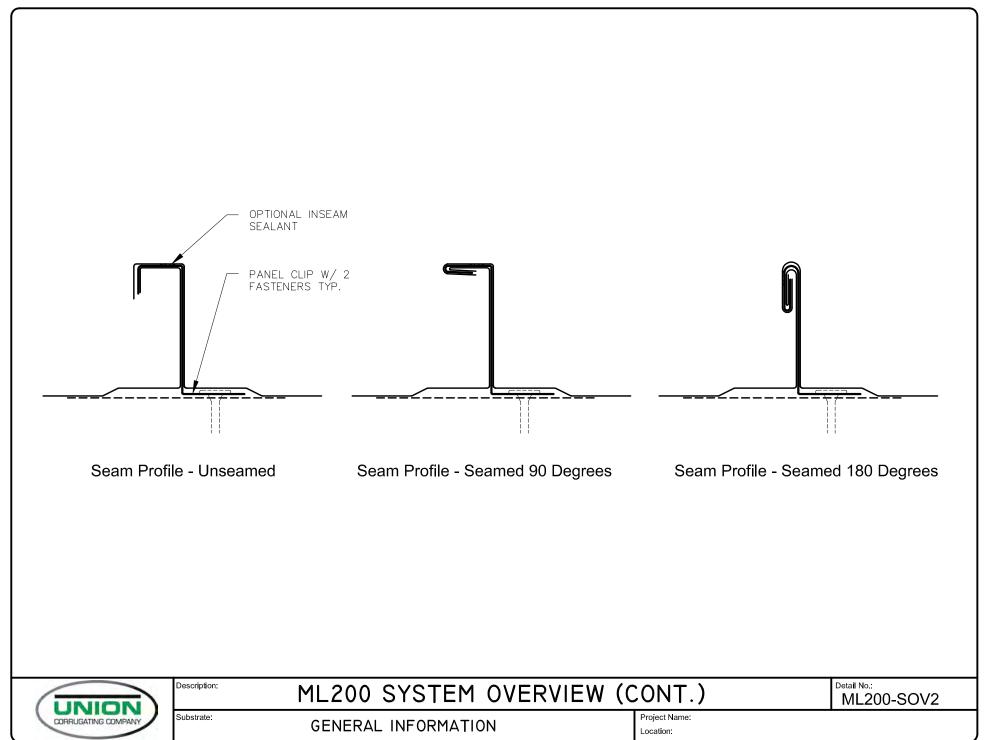


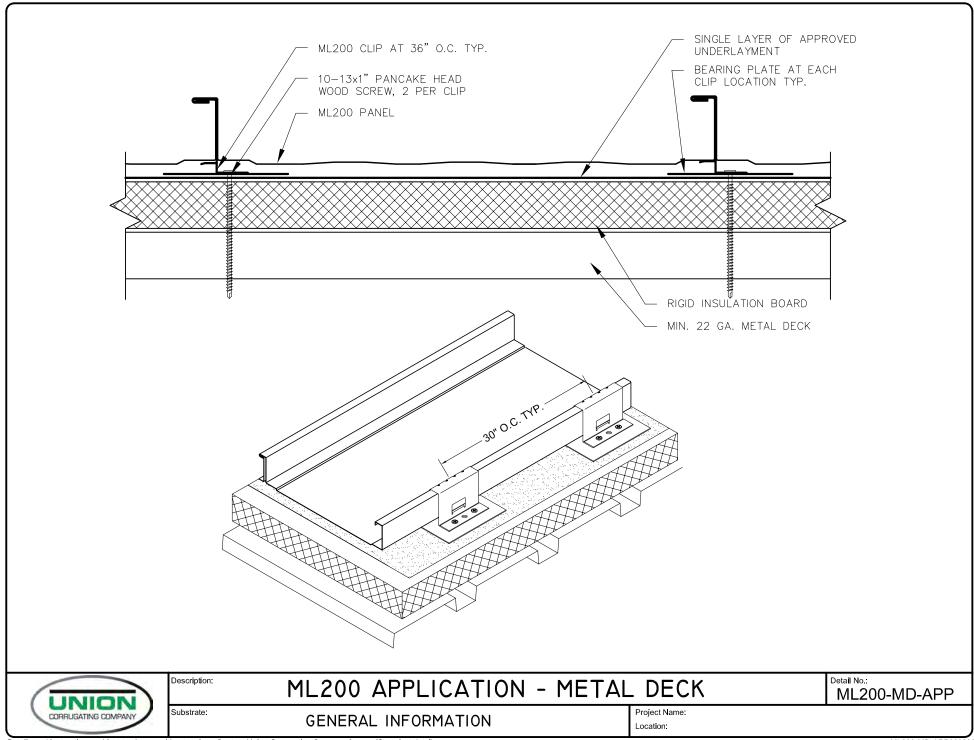


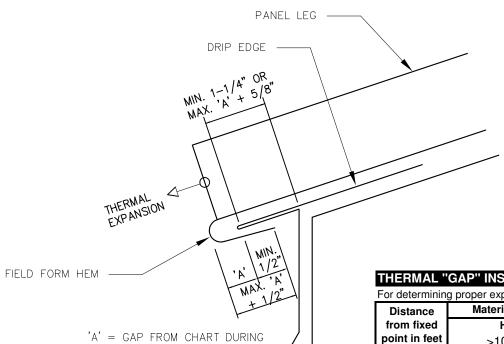


Thermal Gap Installation Chart	SL150-INF0-1.00
Extended Eave	SL150-MD-1.00
Extended Eave with Gutter	SL150-MD-1.10
Gable Detail - Extended Drip Style	SL150-MD-2.10
Gable Detail - Box Style	SL150-MD-2.30
Valley Detail - Integral Cleat	SL150-MD-3.10
Valley Lap Detail	SL150-MD-3.10a
Valley - with Offset Cleat	SL150-MD-3.20
Hip and Ridge Detail	SL150-MD-4.10
Peak Detail	SL150-MD-5.10
Peak Detail - with Wall Panels	SL150-MD-5.40
Headwall Detail - Reglet	SL150-MD-6.11
Headwall Detail - Parapet Coping	SL150-MD-6.20
Sidewall Detail - Reglet	SL150-MD-7.11
Sidewall Detail - Surface Mount	SL150-MD-7.12
Sidwall Detail - Reglet	SL150-MD-7.21
Sidewall Detail - Surface Mount	SL150-MD-7.22
Pipe Penetration	SL150-MD-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 >100°F			<b>Warm</b> 100° to 50° F		Cold <50°F			
point in feet									
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	

<sup>\*</sup> Chart based on temperature differential of:

UNION CORRUGATING COMPANY THERMAL GAP INSTALLATION CHART

etail No.:

ML200-INFO-1.00

Substrate: GENERAL INFORMATION

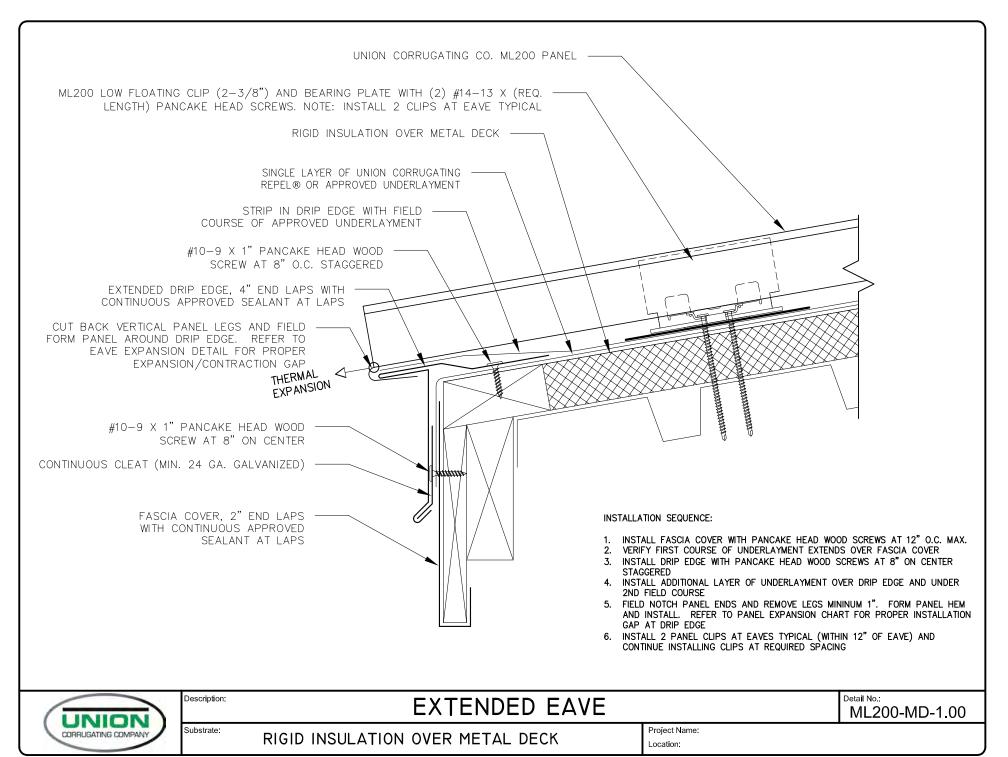
Project Name: Location:

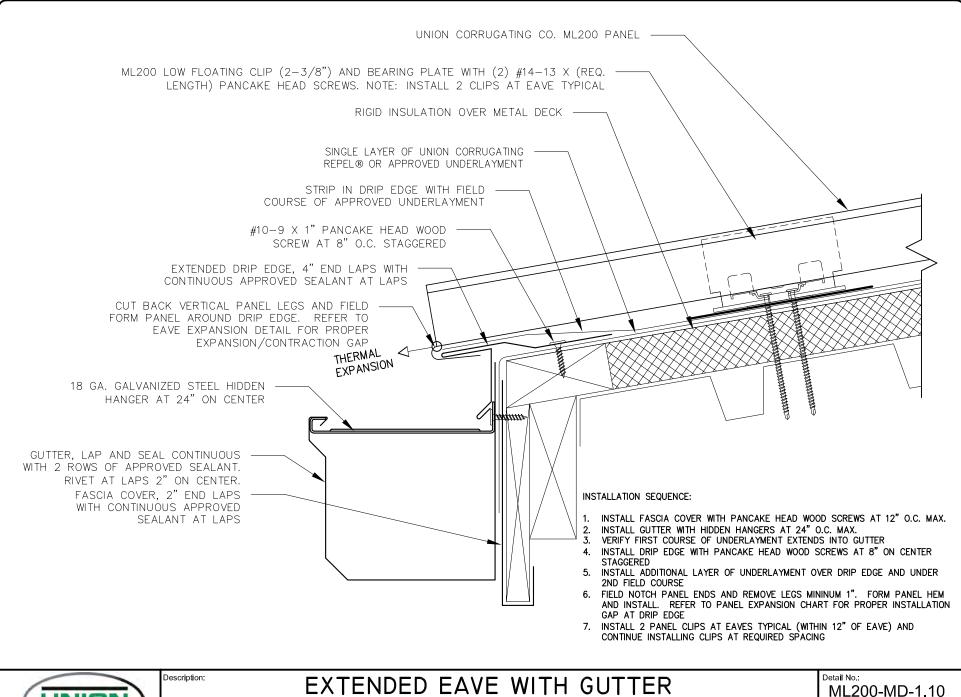
Description:

TIME OF INSTALLATION

<sup>180</sup> degrees F

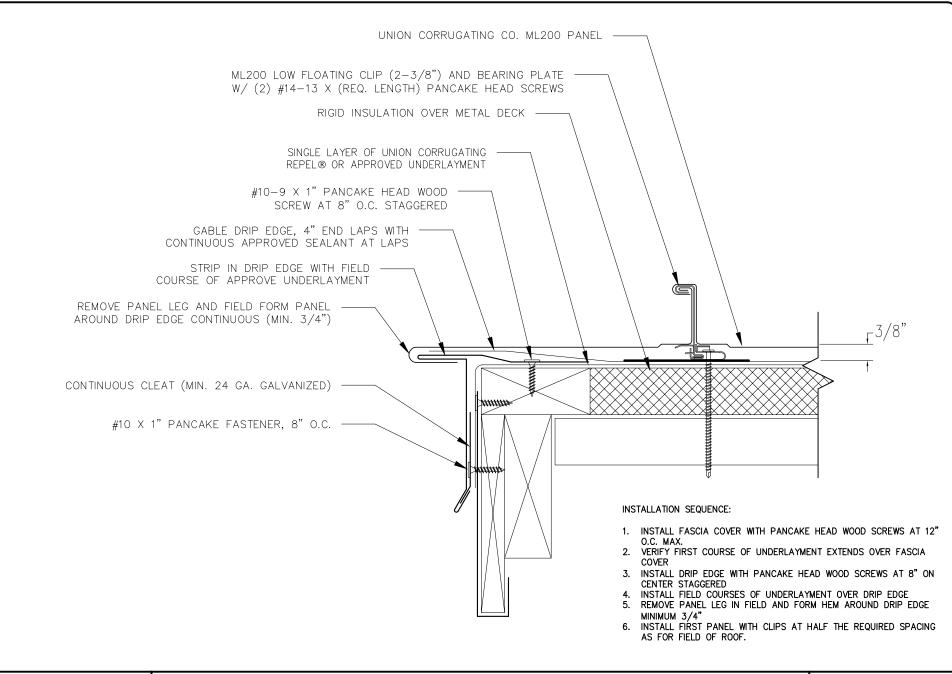
<sup>\*</sup> Coefficient of thermal expansion for steel: 0.0000067







Substrate: RIGID INSULATION OVER METAL DECK





Description:

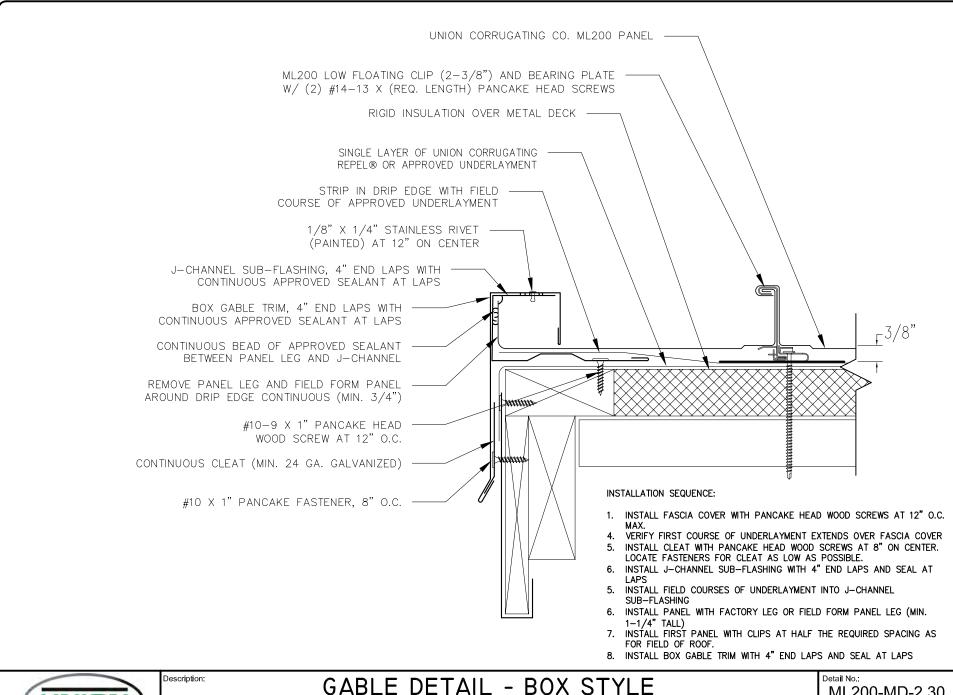
GABLE DETAIL - EXTENDED DRIP STYLE

Detail No.:

ML200-MD-2.10

Substrate:

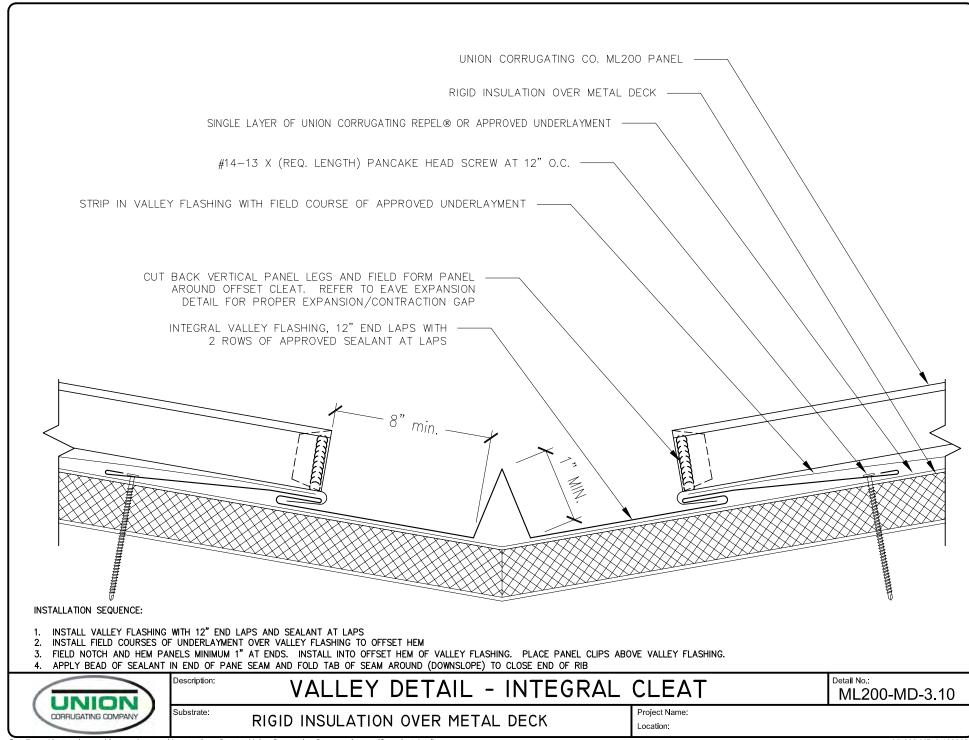
RIGID INSULATION OVER METAL DECK

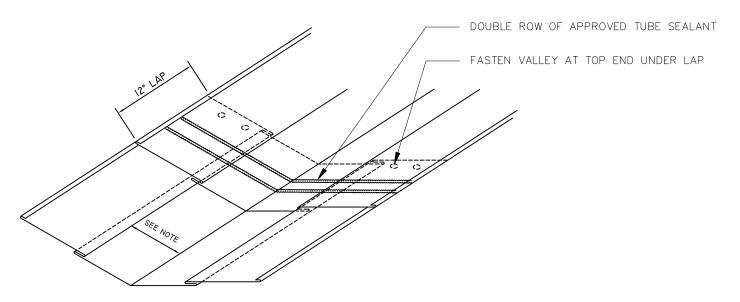




ML200-MD-2.30

Substrate: RIGID INSULATION OVER METAL DECK





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.

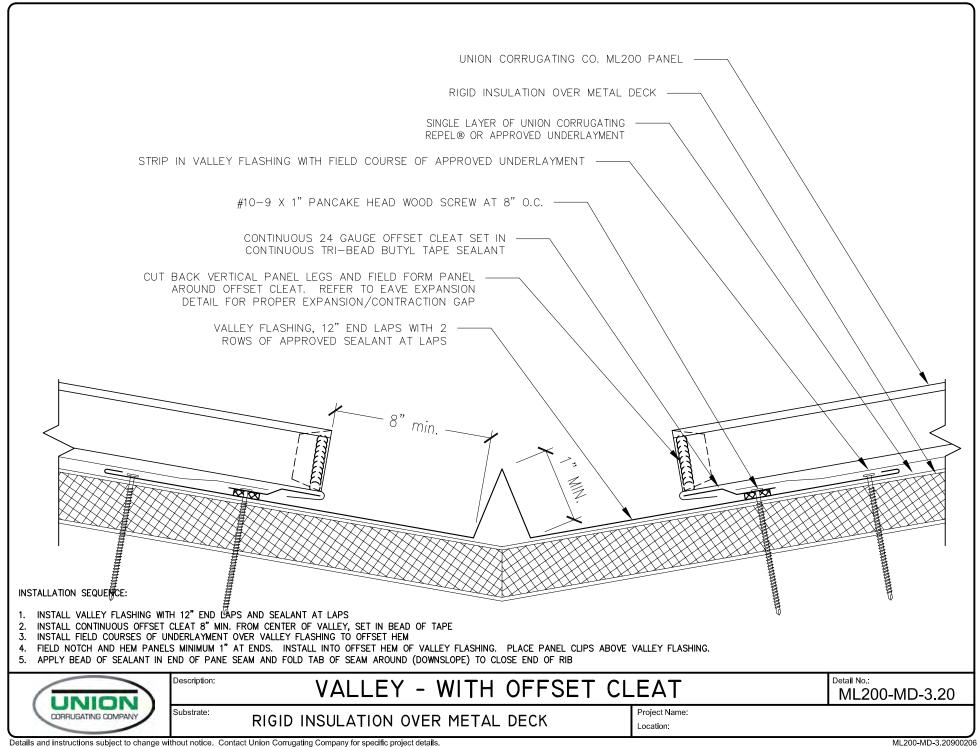


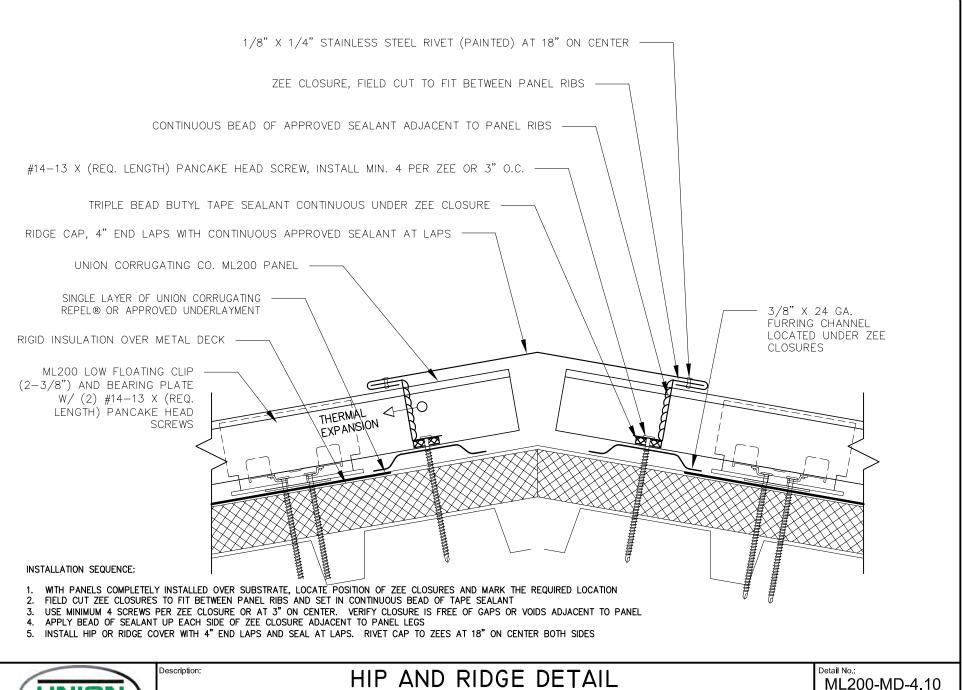
VALLEY LAP DETAIL

etail No.:

ML200-MD-3.10a

Substrate: RIGID INSULATION OVER METAL DECK



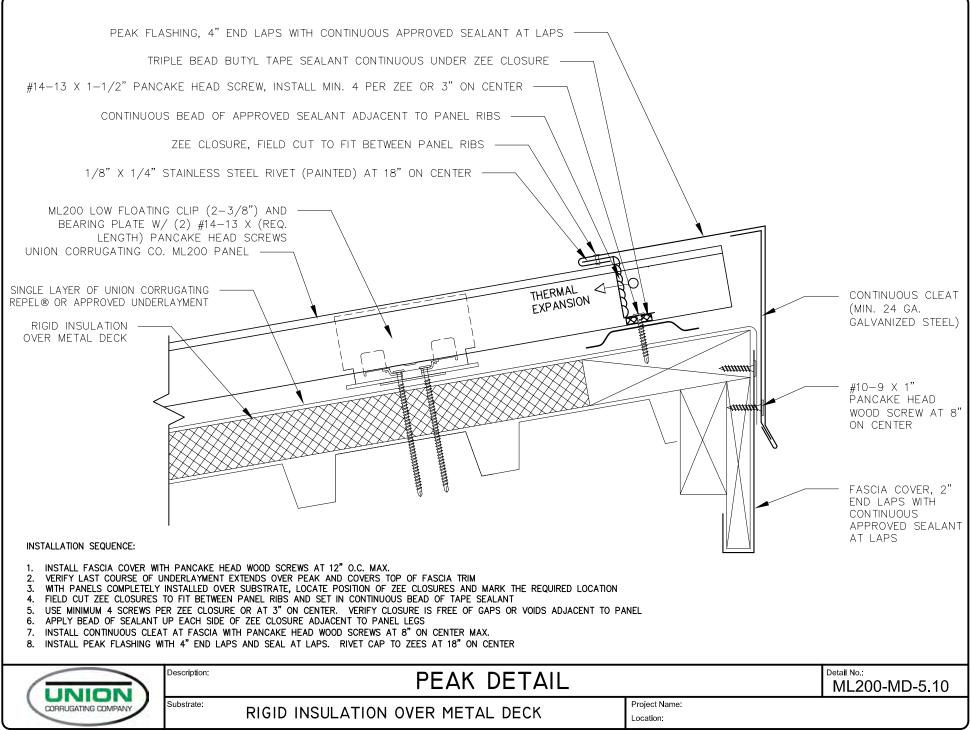


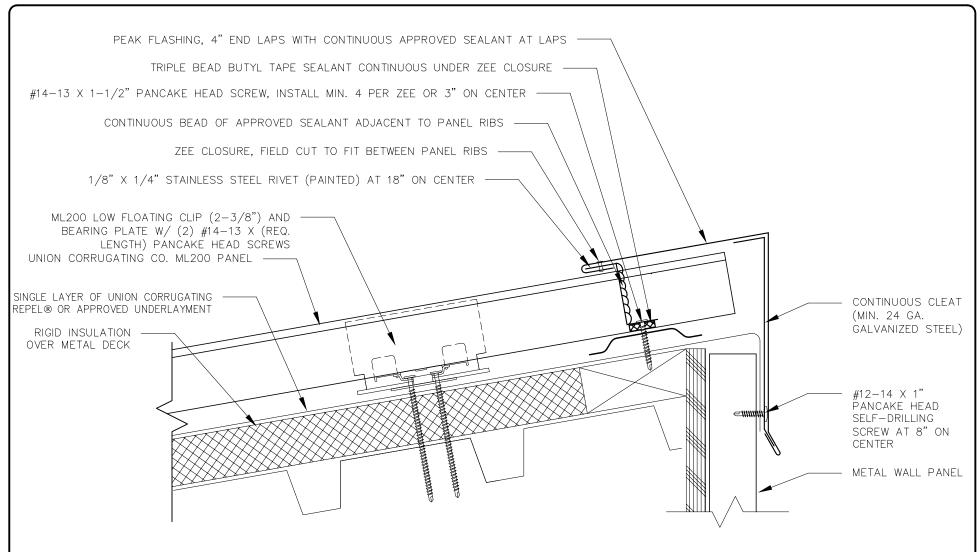


## HIP AND RIDGE DETAIL

Substrate:

RIGID INSULATION OVER METAL DECK





## INSTALLATION SEQUENCE:

- I. 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
- 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

Detail No.: ML200-MD-5.40

Substrate:

Description:

RIGID INSULATION OVER METAL DECK

