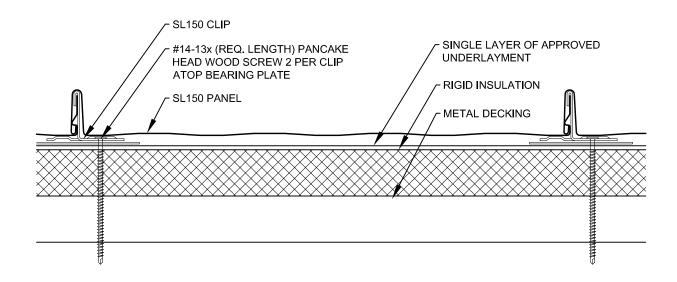


SL150 Standing Seam Rigid Insulation Over Metal Deck Master Details

Architectural / Solid Substrate / Steep Slope

The following details are 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.



FAYETTEVILLE, NC 888-685-7663

OCALA, FL 800-331-3584 **SPENCER, NC** 800-526-8156

VICKSBURG, MS 888-661-0577 ANDERSON, SC 800-544-5169

TIPP CITY, OH 877-615-9812 **TIFTON, GA** 800-962-9131

OKLAHOMA CITY, OK 866-373-5286 ORANGE, VA 800-762-6785

SCRANTON, PA 866-695-6455

Index



SL150 Standing Seam -Rigid Insulation Over Metal Deck-

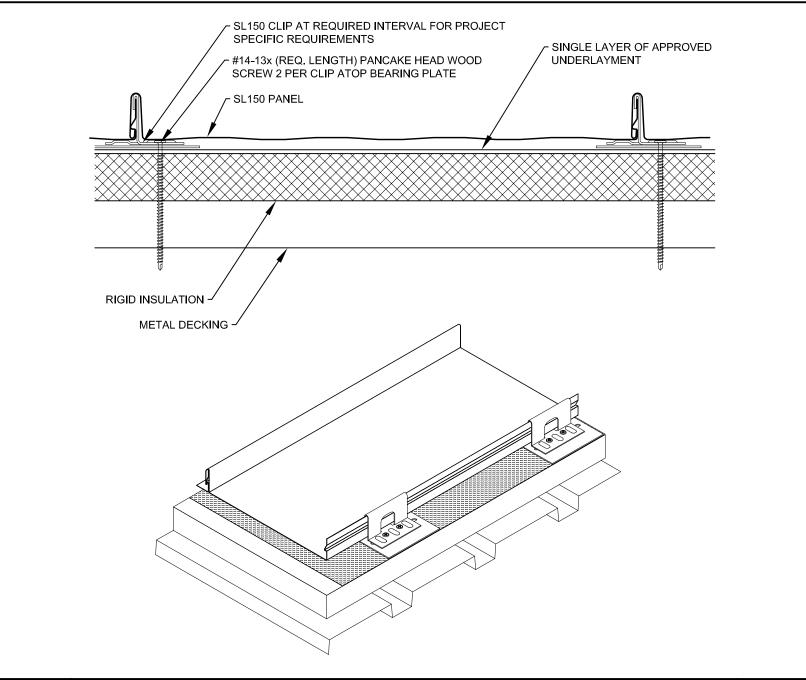
| Panel Information | Detail No. |
|---|---------------|
| Panel Application | 0.10 |
| System Overview - Panel Profiles | |
| System Overview - Clips | |
| Thermal Gap Installation Chart - Steel | |
| Thermal Gap Installation Chart - Gleen | |
| mermar dap instanation draft - Alaminam | 0.57 |
| Eave Details | Detail No. |
| Extended Eave | 1.10 |
| Extended Eave - Steep Slope | 1.10A |
| Extended Eave with Gutter | 1.20 |
| Extended Eave with Gutter - Steep Slope | 1.20A |
| · · · | 1.20A 1.30 |
| Extended Eave with Soffit | |
| Extended Eave with Soffit & Gutter | 1.40 |
| Extended Eave with Vertical Flush Panel | 1.50 |
| Extended Eave with Vertical Standing Seam Panel | 1.60 |
| Extended Eave Lap Detail | 1.90 |
| Gable Details | Detail No. |
| Gable - Extended Drip | 2 10 |
| Gable - Box | |
| Gable - Box with Zee Closure | |
| | |
| Box Gable Lap Detail | 2.90 |
| Valley Details | Detail No. |
| Valley, Internal Olast | 0.40 |
| Valley - Integral Cleat | 3.10 |
| Valley - Offset Cleat | 3.20 |
| Valley Lap Detail | 3.90 |
| Ridge & Hip Details | Detail No. |
| | |
| Standard Ridge & Hip | 4.10 |
| Ridge Termination at Valley | 4.40 |
| Ridge & Hip Lap Detail | 4.90 |
| Ridge Cap Expansion Detail | 4.91 |
| Peak Details | Detail No. |
| Peak Detail | 5.10 |
| Реак Detail with Vertical Flush Panel | 5.10 5.40 |
| reak Detali With Vehital riush rahel | J.4U |





SL150 Standing Seam -Rigid Insulation Over Metal Deck-

| High Wall & Low Wall Details | Detail No. |
|---|------------------|
| High Wall - Reglet | 6.10 |
| High Wall - Surface Mount | 6.12 |
| High Wall - Vertical Panel with Sill | 6.14 |
| High Wall - Parapet | 6.20 |
| Valley Wall Detail | 6.30 |
| High Wall Lap Detail | |
| riigir vvan Lap Detail | 0.90 |
| Sidewall Details | Detail No. |
| Sidewall - Reglet with Subflashing Angle | 7.11 |
| Sidewall - Surface Mount with Subflashing Angle | 7.11 7.12 |
| Sidewall - Wood Framing & Siding with Subflashing Angle | 7.12 7.13 |
| Sidewall - Reglet with J-Channel Subflashing | 7.13 7.21 |
| · · · · · · · · · · · · · · · · · · · | |
| Sidewall - Surface Mount with J-Channel Subflashing | 7.22 |
| Sidewall - Wood Framing & Siding with J-Channel Subflashing | 7.23 |
| Sidewall - Reglet with Zee Closure | 7.31 |
| Sidewall - Surface Mount with Zee Closure | 7.32 |
| Sidewall - Wood Framing & Siding with Zee Closure | 7.33 |
| Sidewall Expansion Joint | 7.40 |
| Expansion Joint Mid-Roof | 7.50 |
| Sidewall Lap Detail | 7.90 |
| Slope Transition Details | Detail No. |
| Slope Transition | 8.10 |
| Transition at Membrane Roofing | |
| | |
| General Information Details | Detail No. |
| Panel Hemming | 10.10 |
| End Lap Detail - Steep Slope | |
| Zee Closure Installation | 10.70 |
| Pipe Penetration | |
| Pipe Penetration Through Panel Rib | |
| Curb at High Wall & Low Wall | 10.40 |
| Curb at Sidewall | 10.40 |
| Curb Installation Datail | 10.41 CDD 1.6 |





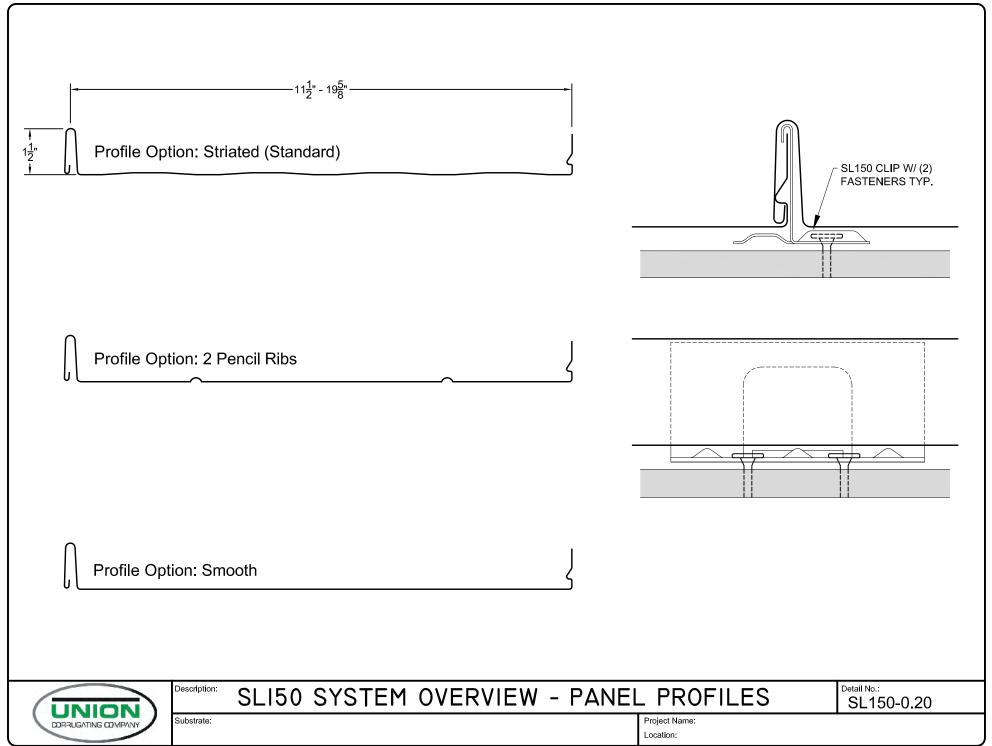
Description: SLI50 APPLICATION

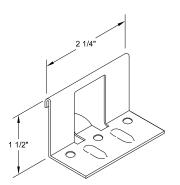
Detail No.:

SL150-MD-0.10

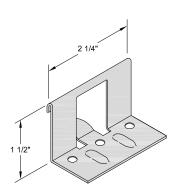
Substrate:

RIGID INSULATION OVER METAL DECK

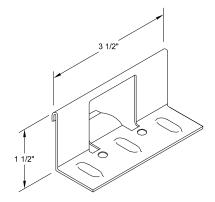




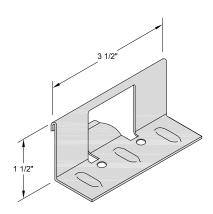
Clip 10 20 Ga. Galvanized 1.5" x 2.25"



Clip 12
20 Ga. Stainless Steel
1.5" x 2.25"
Recommended for use with aluminum panels



Clip 11 UL 18 Ga. Galvanized 1.5" x 3.5"



Clip 13 UL

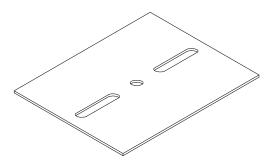
18 Ga. Stainless Steel

1.5" x 3.5"

Recommended for use with aluminum panels

IMPORTANT INSTALLATION NOTE

- SL150 CLIPS ALLOW FOR UNLIMITED THERMAL EXPANSION/CONTRACTION OF PANELS.
- "UL" CLIP TYPES MAY BE REQUIRED TO MEET SPECIFIC WIND UPLIFT TESTING.



4" X 5" Bearing Plate
16 Ga. Galvanized
Required for use when clips are applied
directly over rigid board insulation



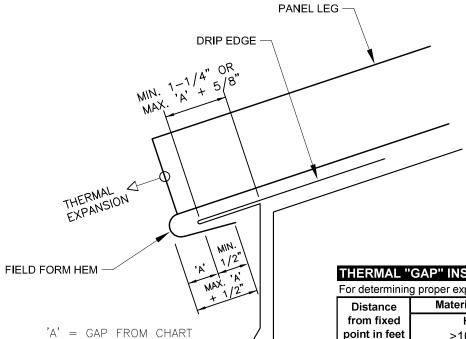
Description:

SLI50 SYSTEM OVERVIEW - CLIPS

Detail No.:

SL150-0.21

Substrate:



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 | | W | arm | Co | old | | |
| point in feet | >100° F | | 100° t | o 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:

180 degrees F

NION JGATING COMPANY THERMAL GAP INSTALLATION CHART - STEEL

Detail No.:

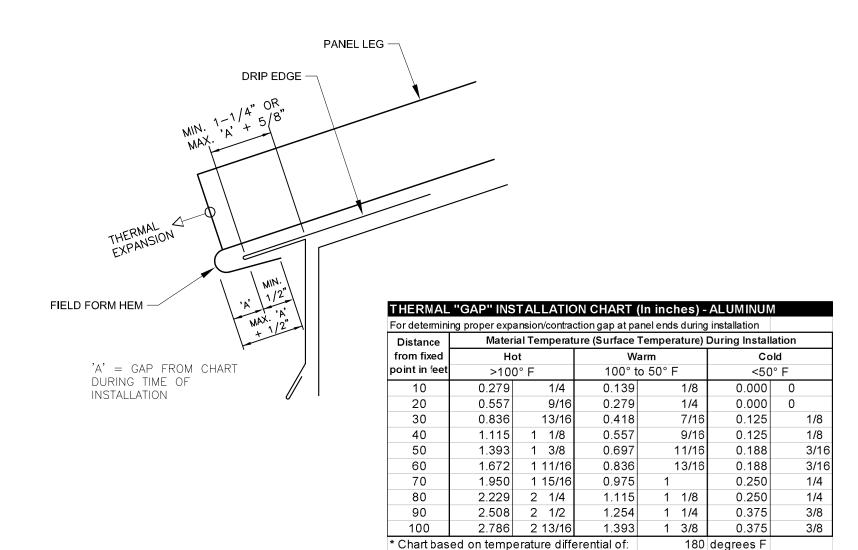
SL150-0.30

Substrate:

Project Name: Location:

DURING TIME OF INSTALLATION

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



| (| UNIC | \sqrt{N} |
|---|-------------|------------|
| / | CORRUGATING | COMPANY |
| - | | |

Description: THERMAL GAP INSTALLATION CHART - ALUMINUM

Detail No.:

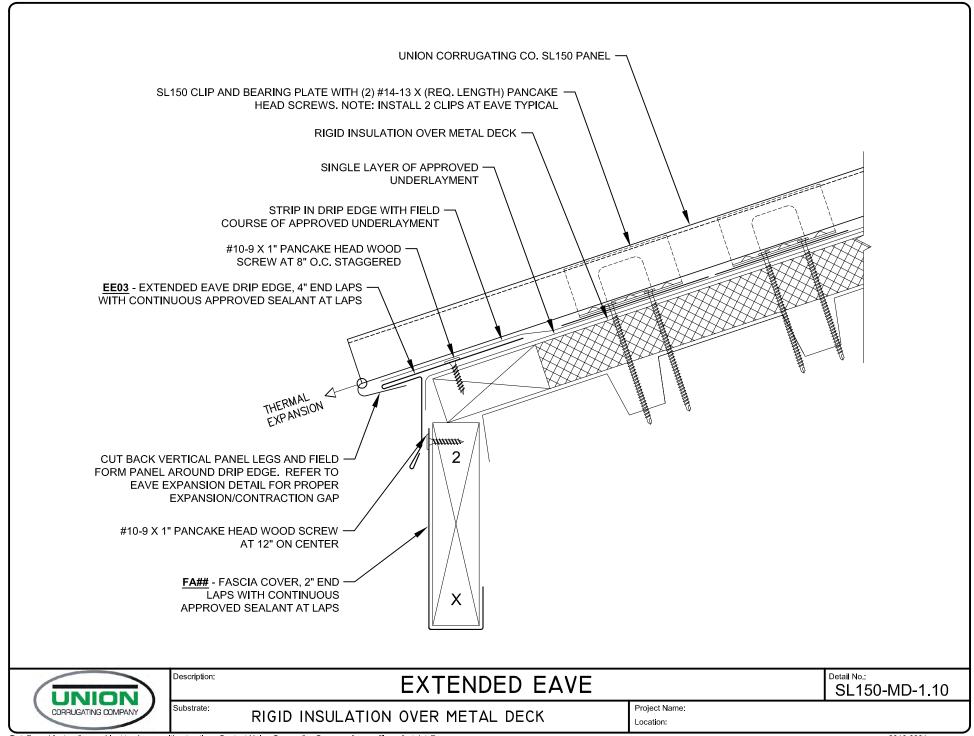
0.0000129

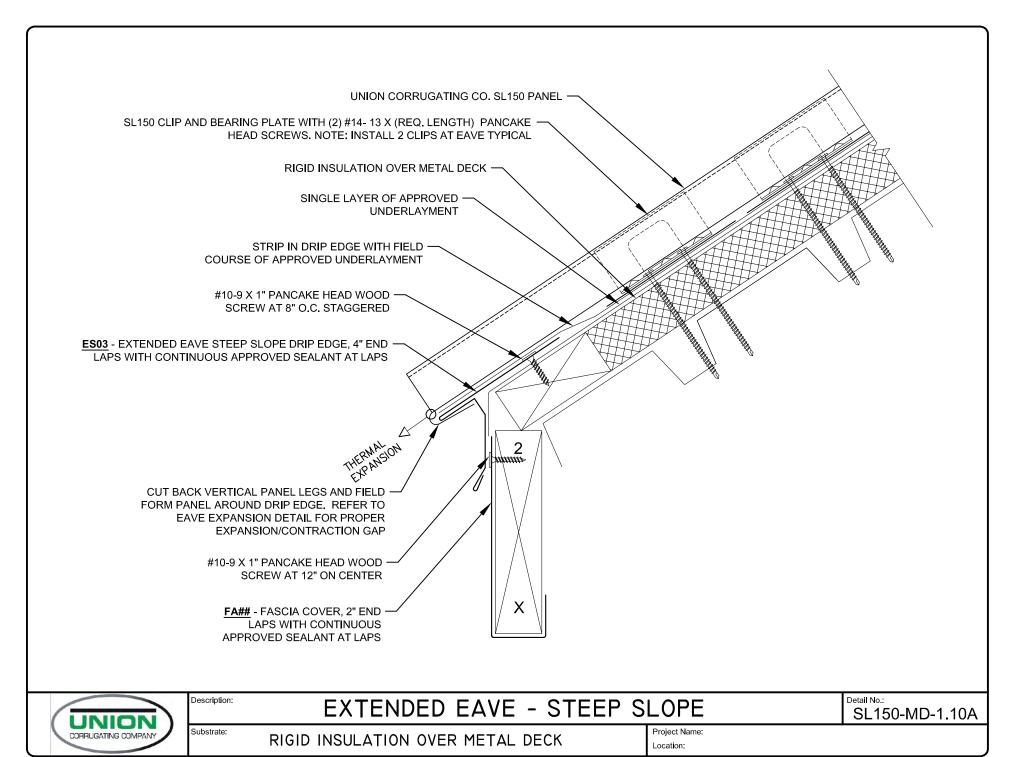
SL150-0.31

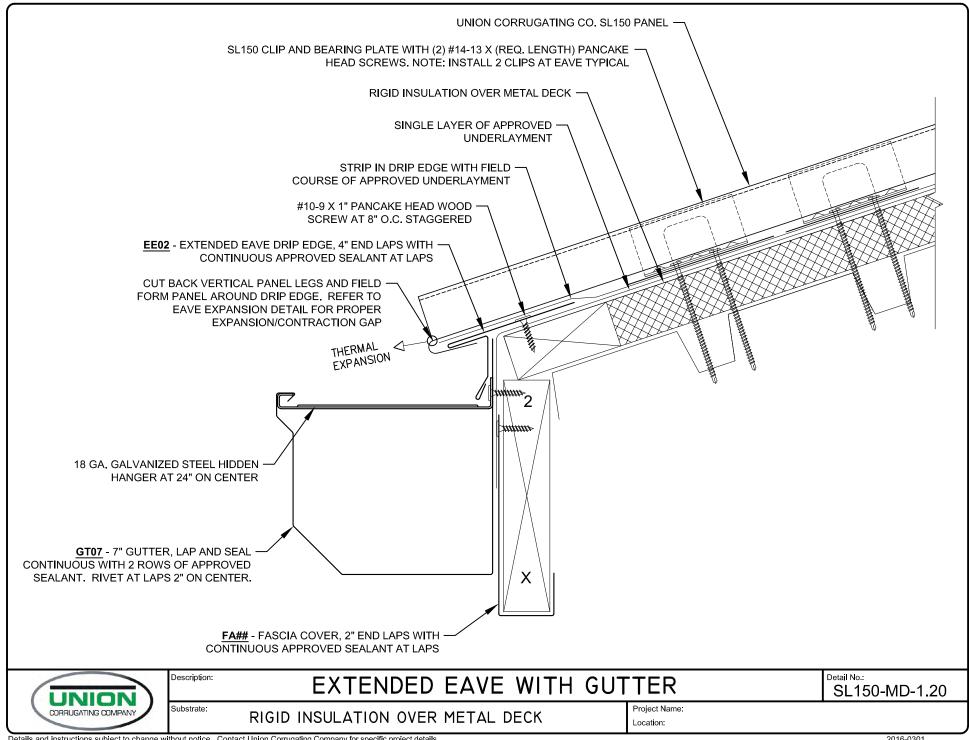
Project Name: Location:

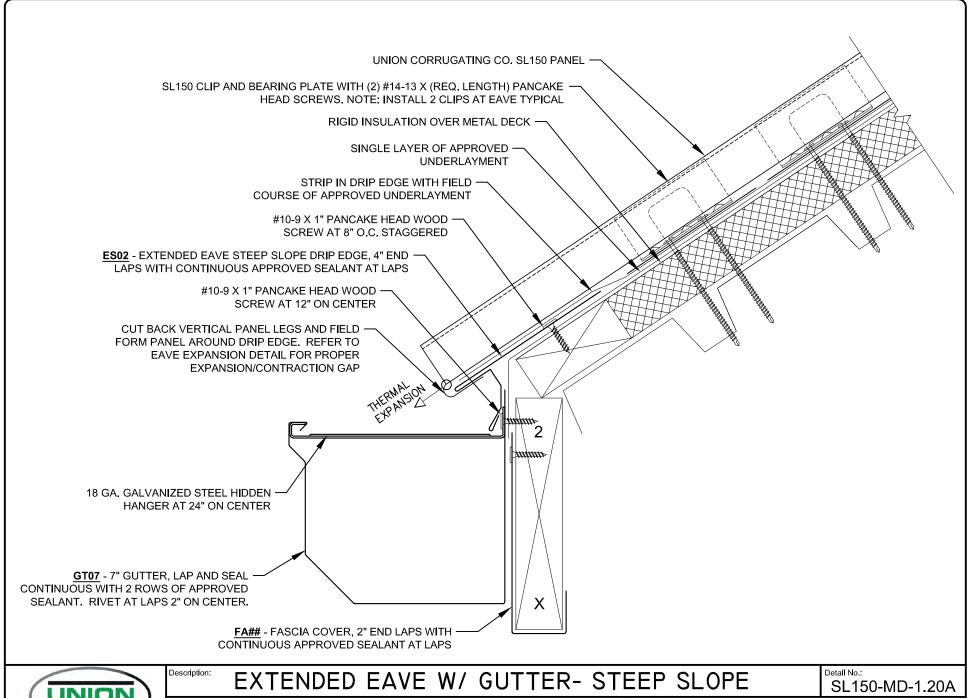
* Chart based on temperature differential of: * Coefficient of thermal expansion for alum.:

Substrate:





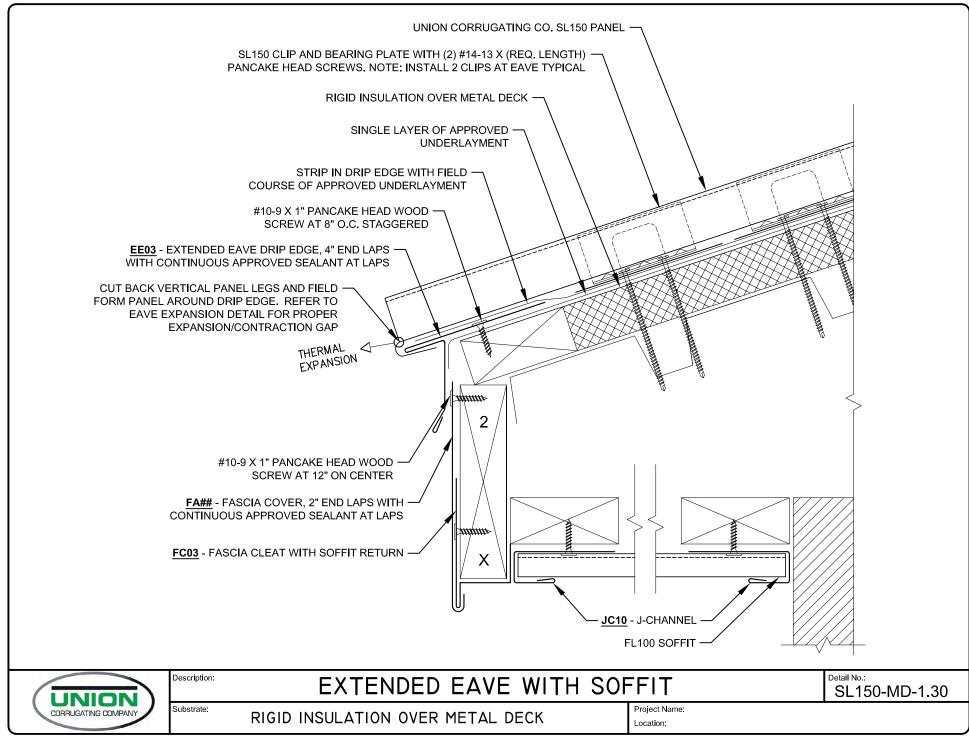


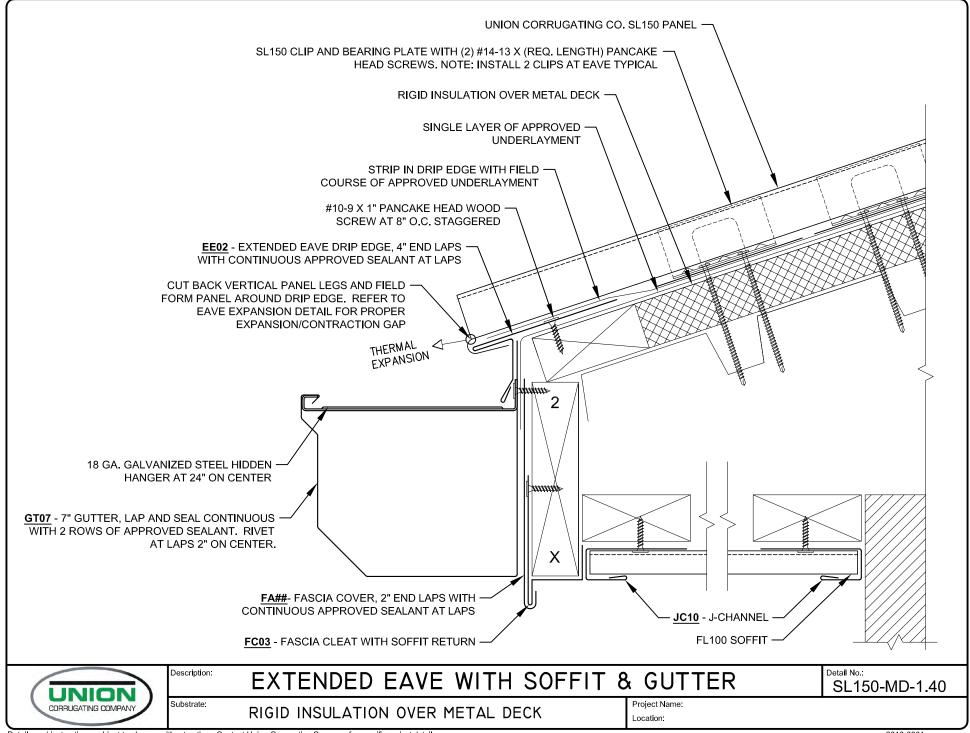


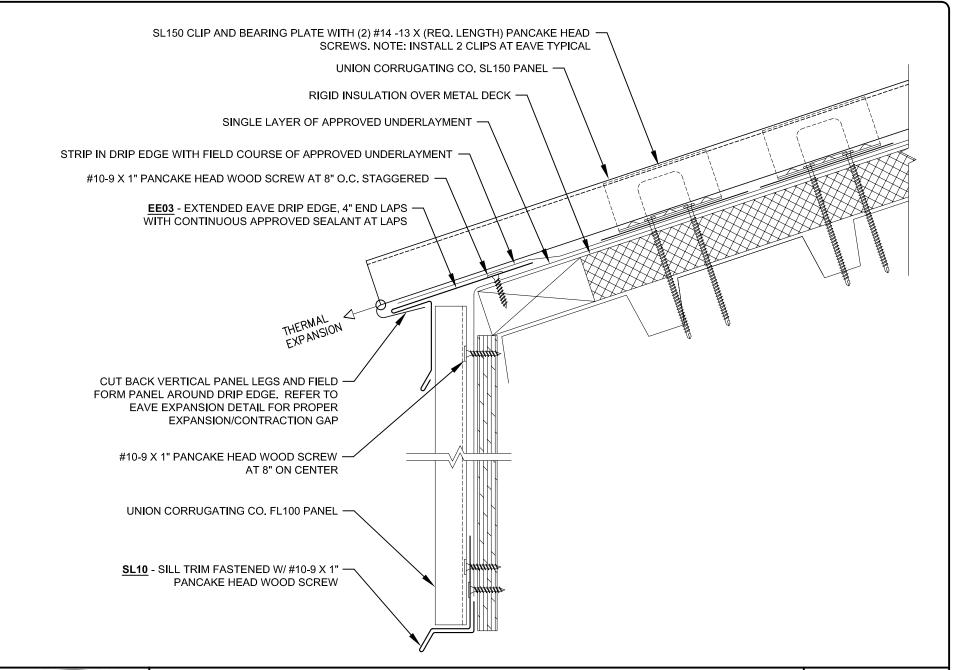
UNION CORRUGATING COMPANY

Substrate:

RIGID INSULATION OVER METAL DECK









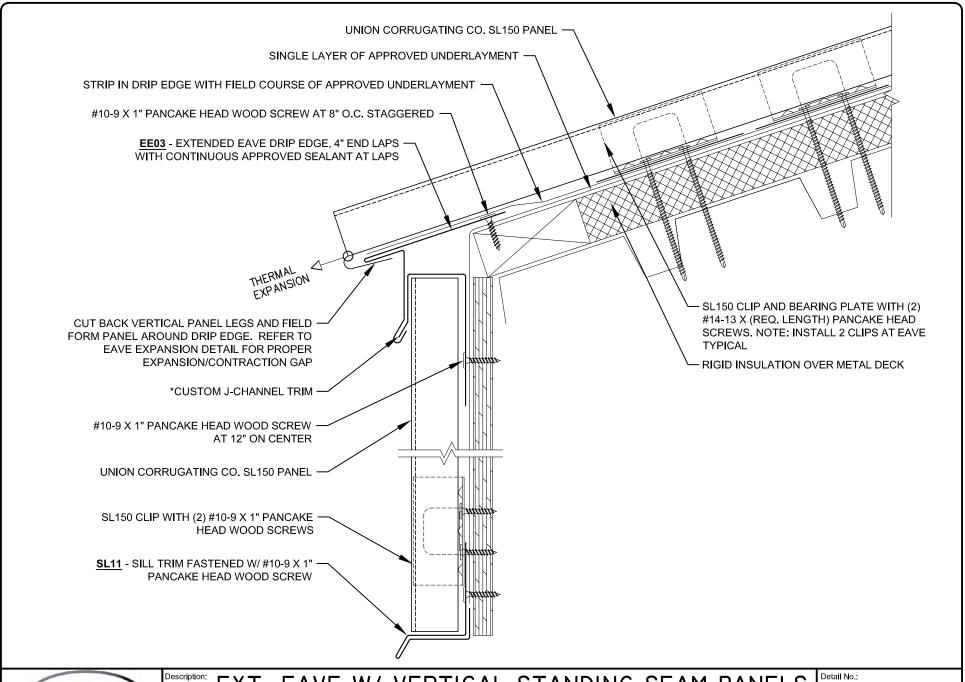
EXTENDED EAVE W/ VERTICAL FLUSH PANEL

Detail No.:

SL150-MD-1.50

Substrate:

RIGID INSULATION OVER METAL DECK



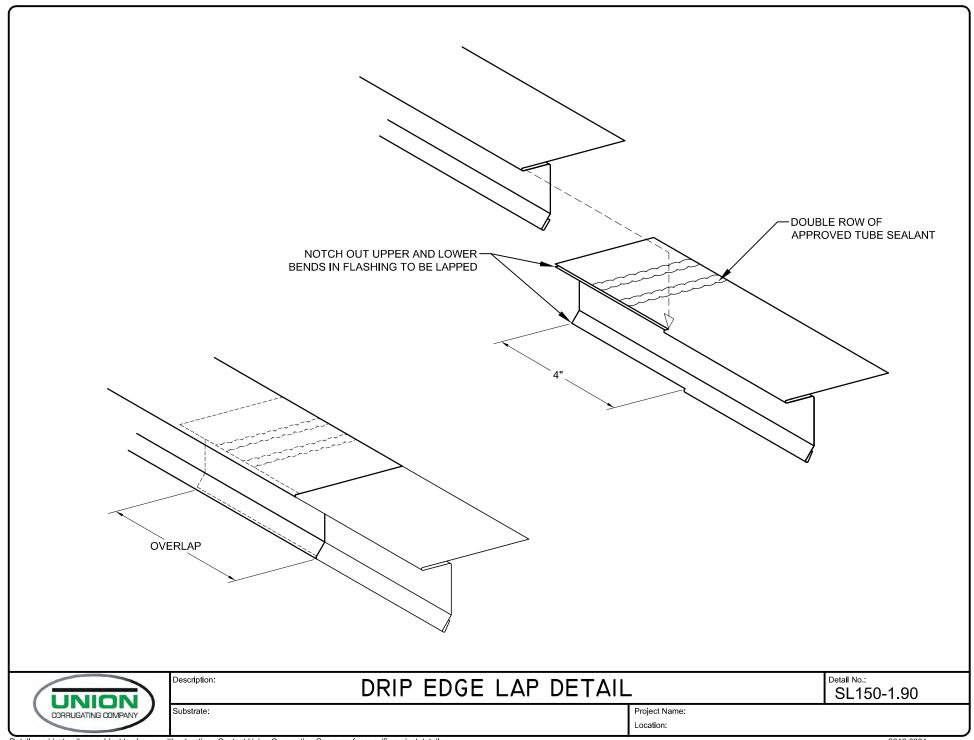
UNION CORRUGATING COMPANY

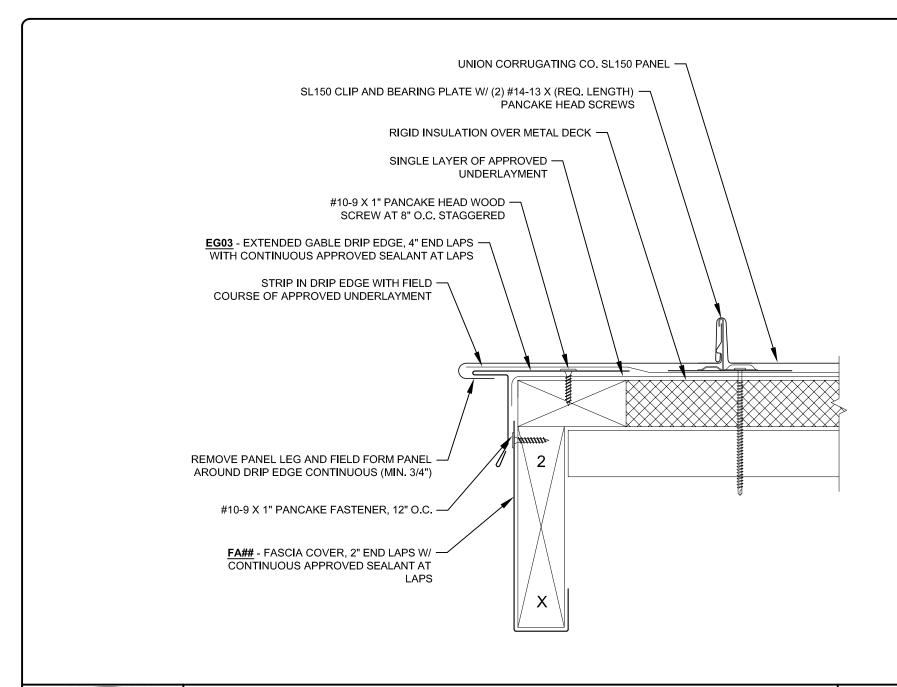
Description: EXT. EAVE W/ VERTICAL STANDING SEAM PANELS

SL150-MD-1.60

Substrate:

RIGID INSULATION OVER METAL DECK





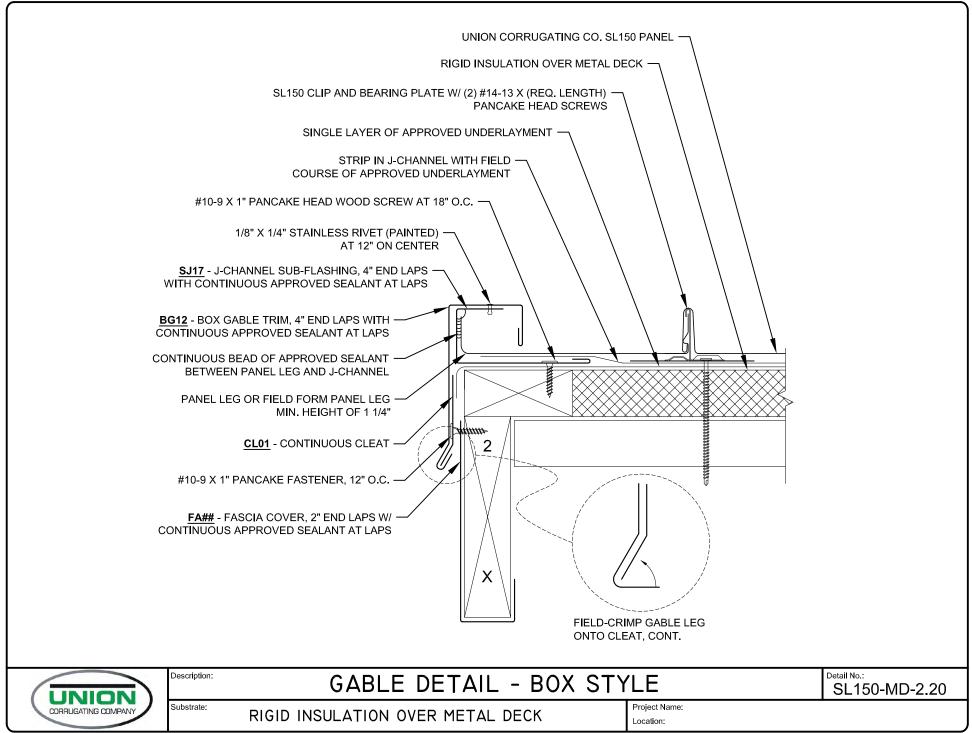


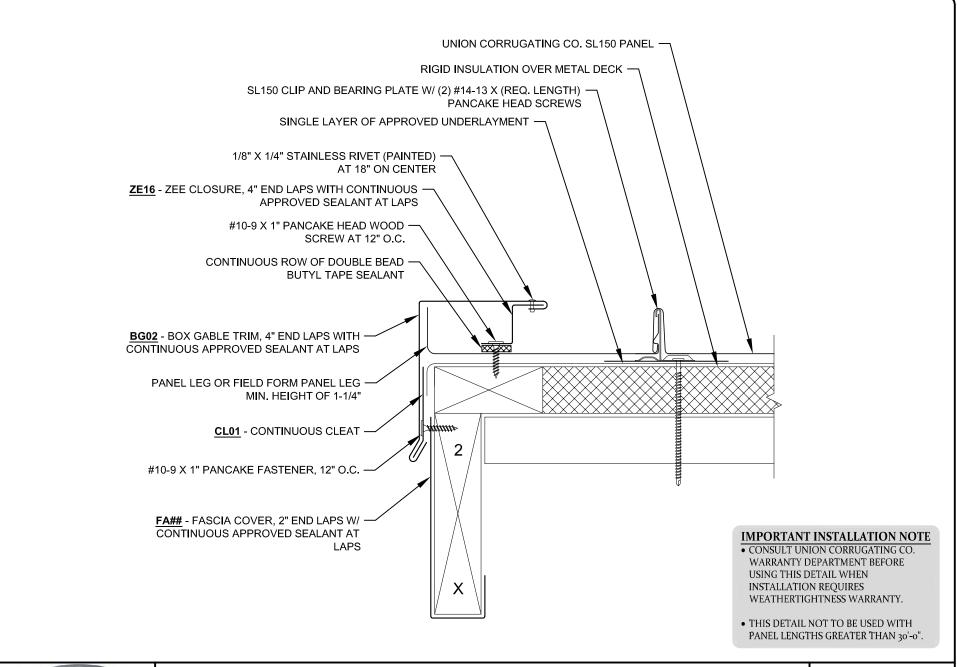
GABLE DETAIL - EXTENDED DRIP STYLE

Detail No.: SL150-MD-2.10

Substrate:

RIGID INSULATION OVER METAL DECK







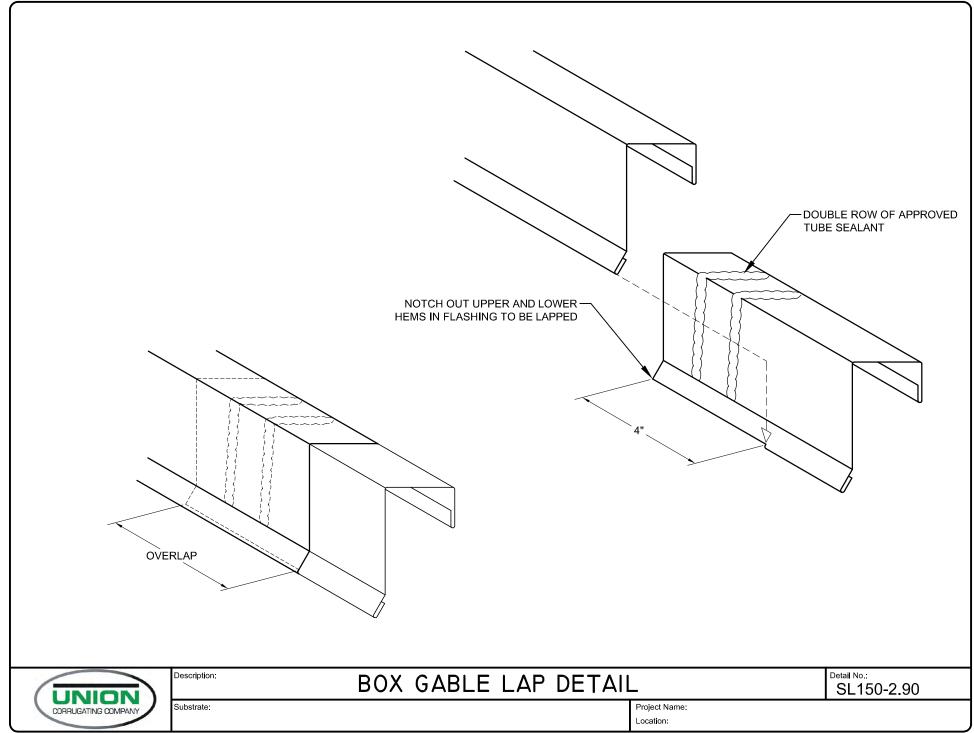
GABLE DETAIL - BOX STYLE w/ Z-CLOSURE

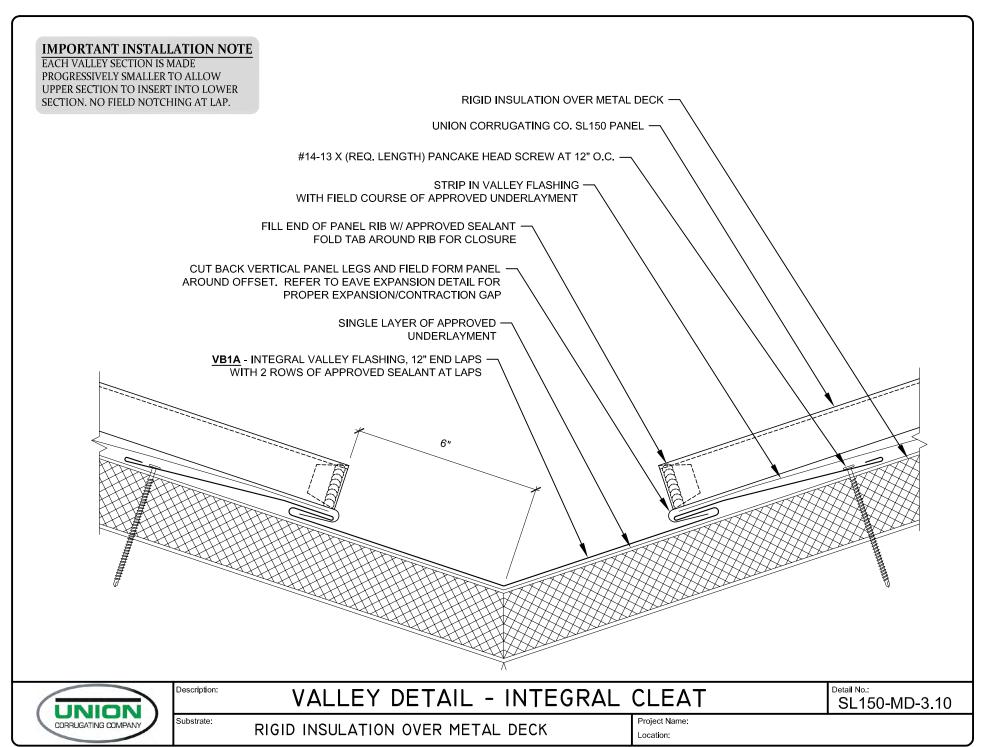
Detail No.:

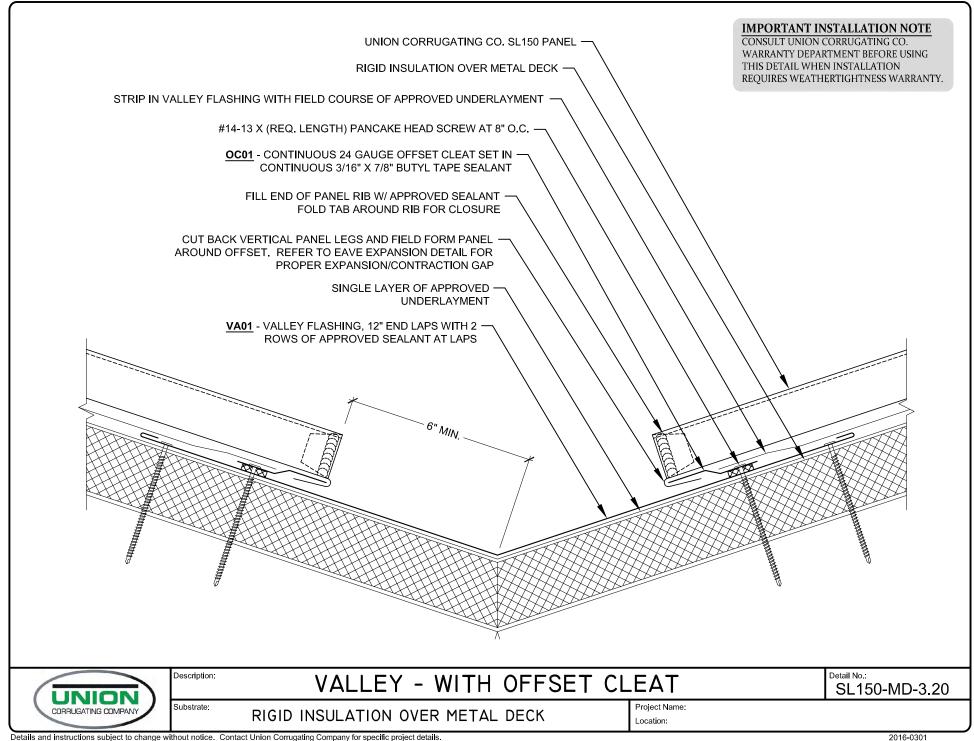
SL150-MD-2.30

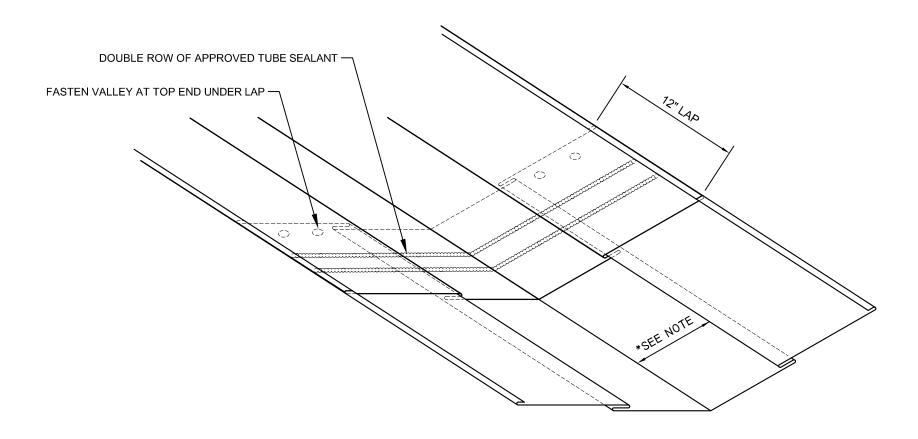
Substrate:

RIGID INSULATION OVER METAL DECK









TELESCOPING VALLEY FLASHING LAP

IMPORTANT INSTALLATION NOTE

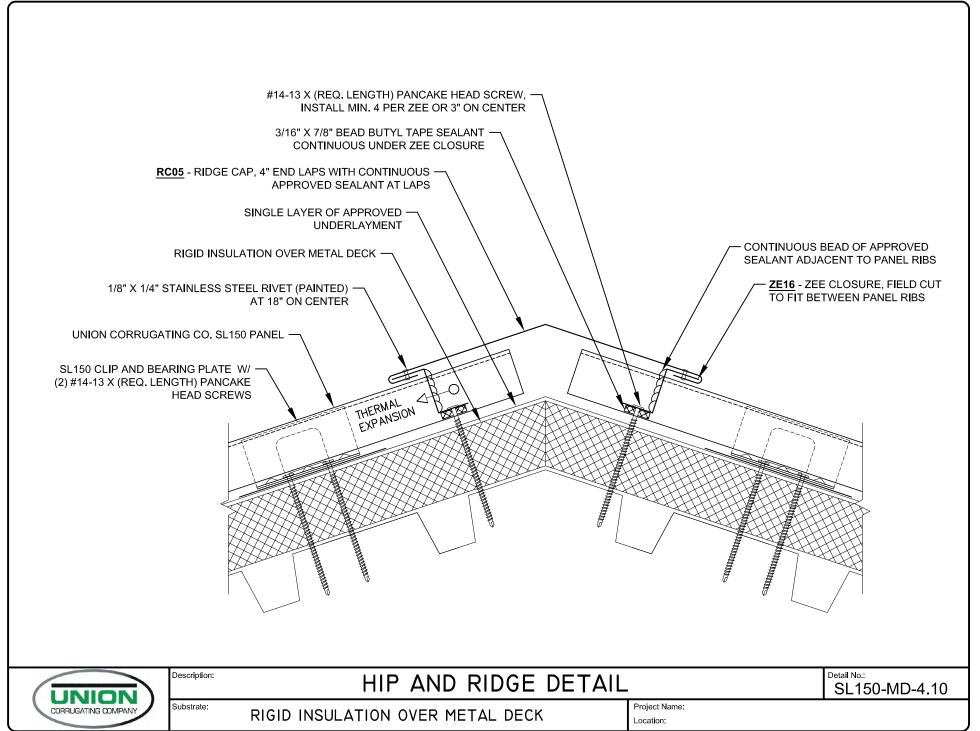
EACH VALLEY SECTION IS MADE PROGRESSIVELY SMALLER TO ALLOW UPPER SECTION TO INSERT INTO LOWER SECTION. NO FIELD NOTCHING AT LAP.

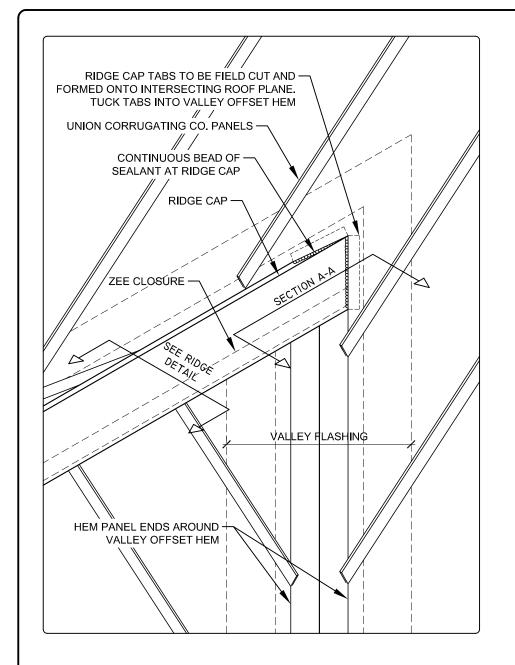


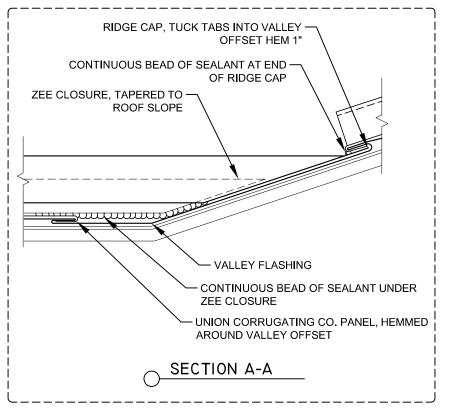
VALLEY LAP DETAIL

SL150-3.90

Substrate:







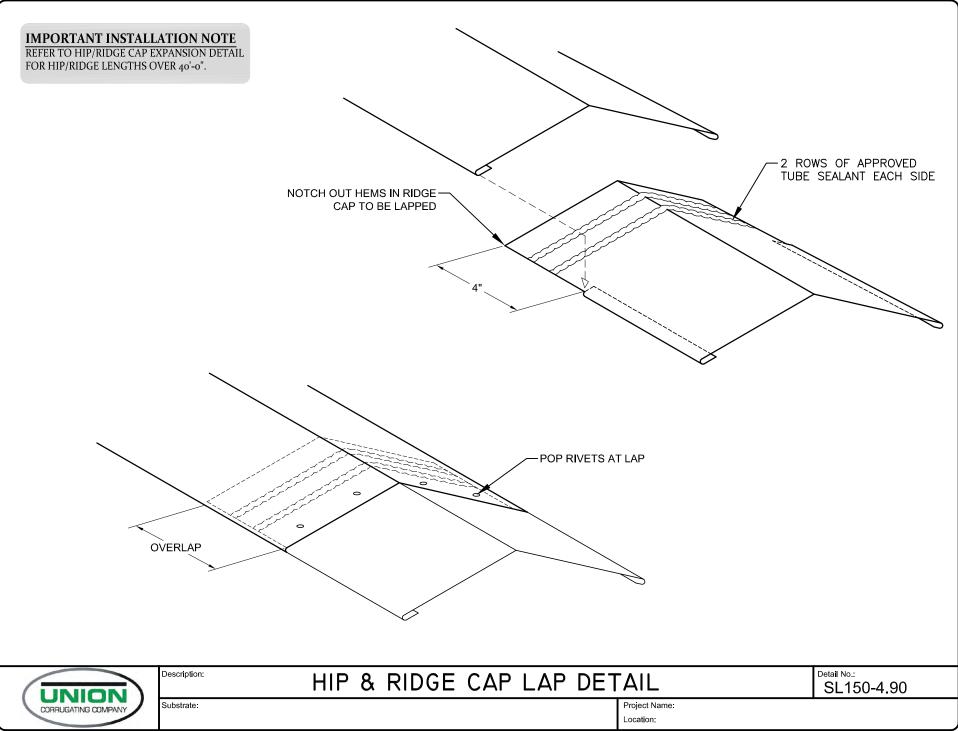


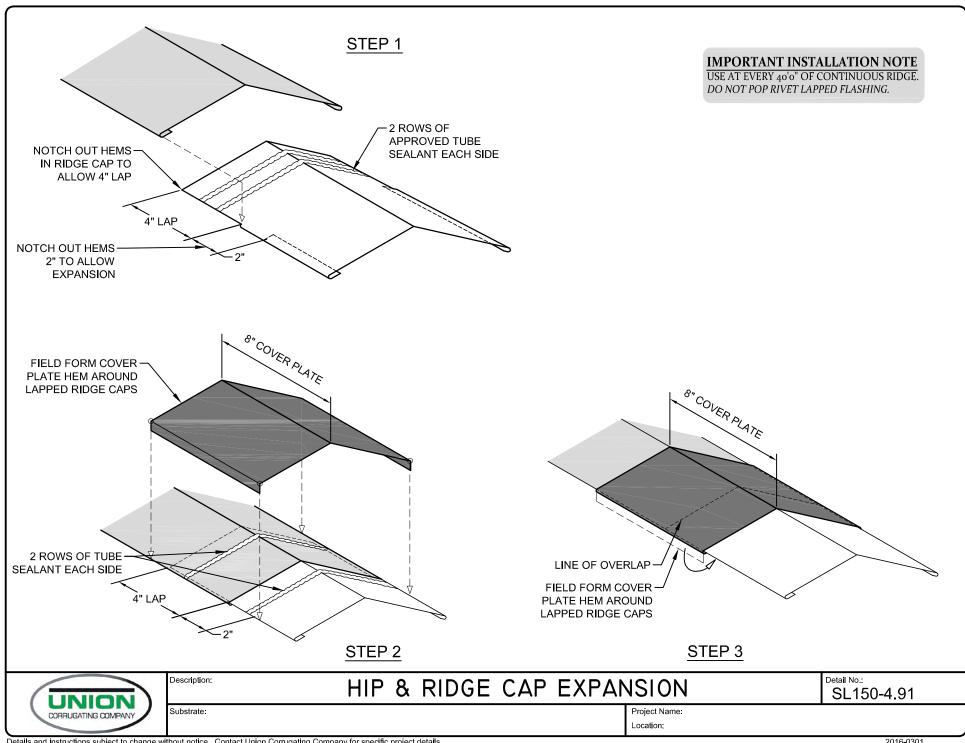
Description: RIDGE TERMINATION @ VALLEY

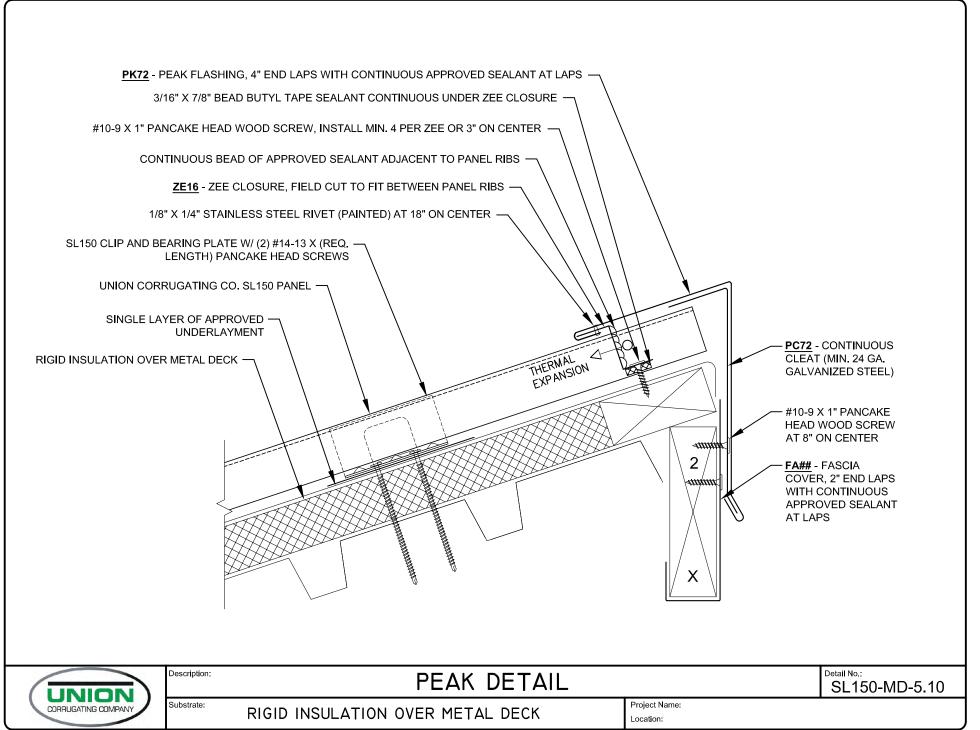
Detail No.: SL150-4.40

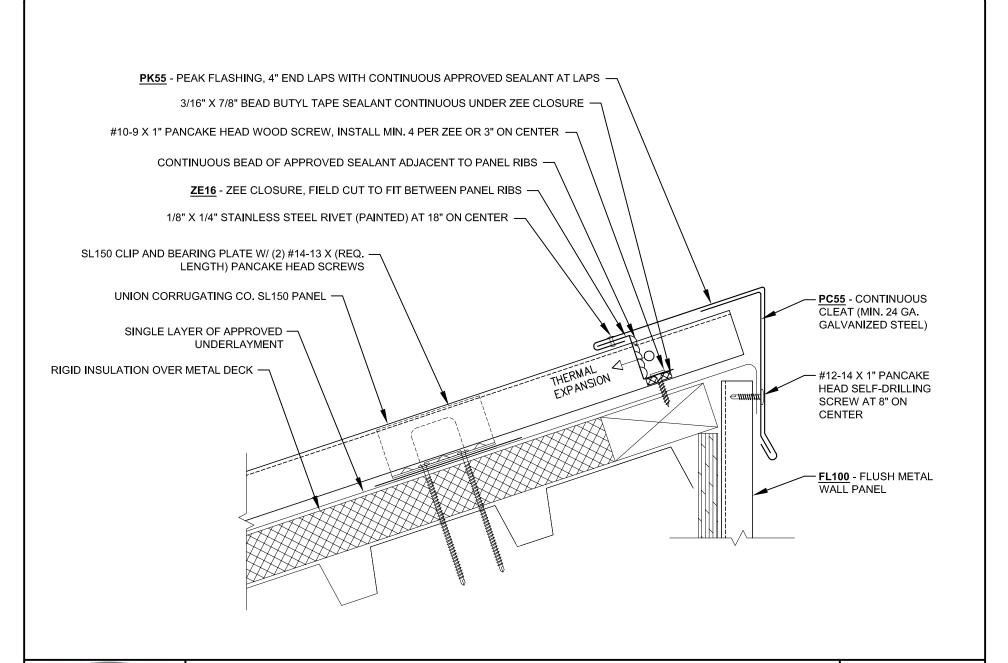
Project Name: Location:

Substrate:







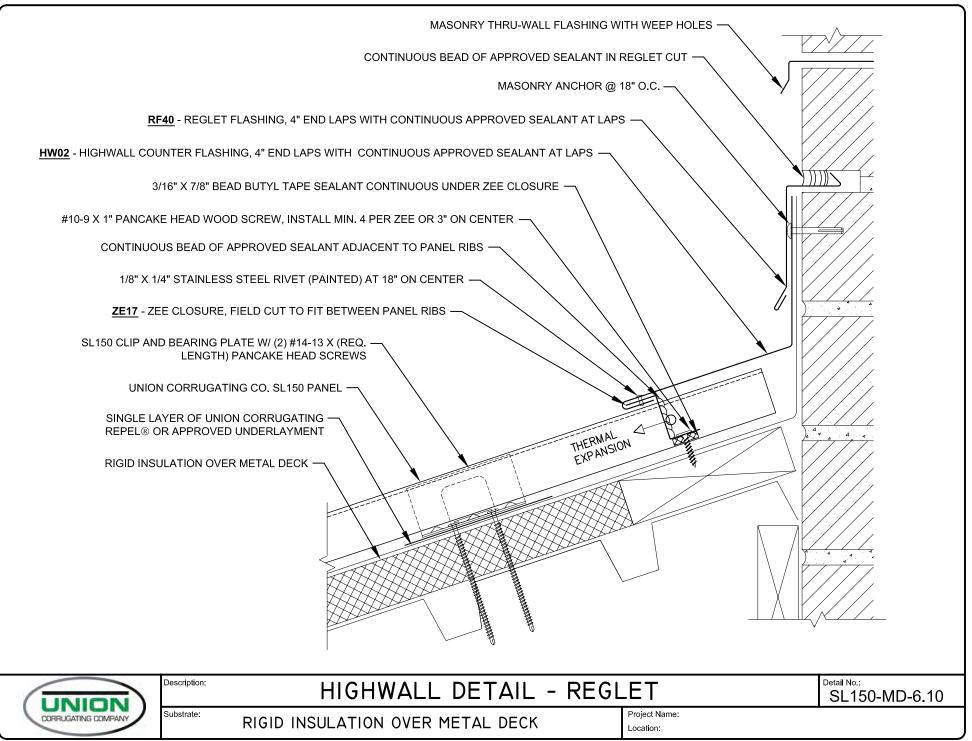


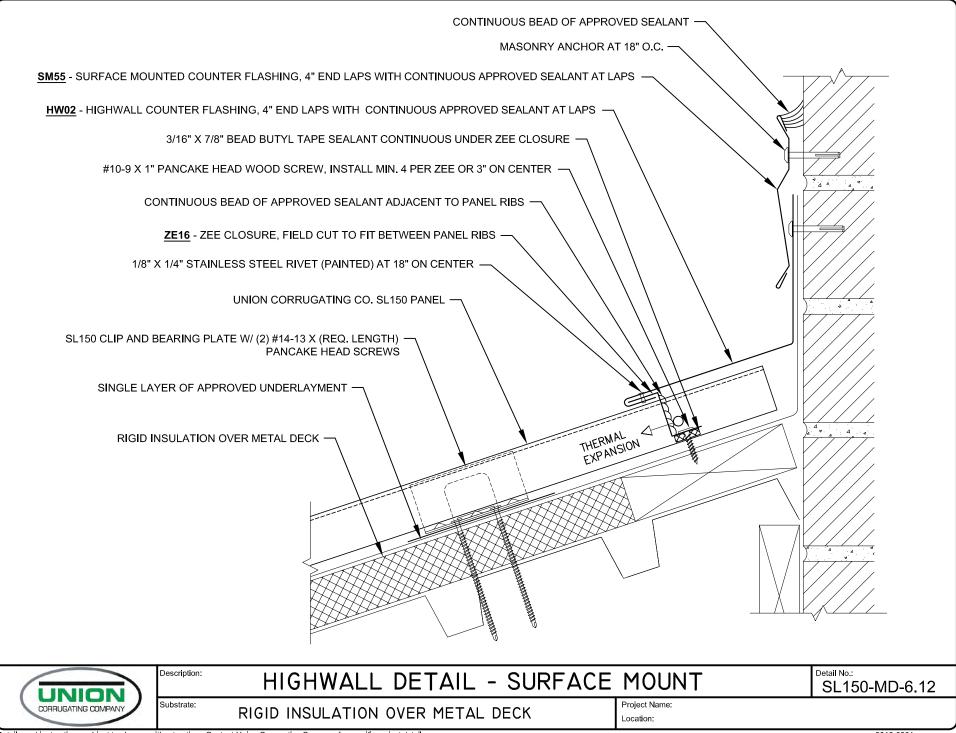
UNION CORRUGATING COMPANY PEAK DETAIL - WITH WALL PANELS

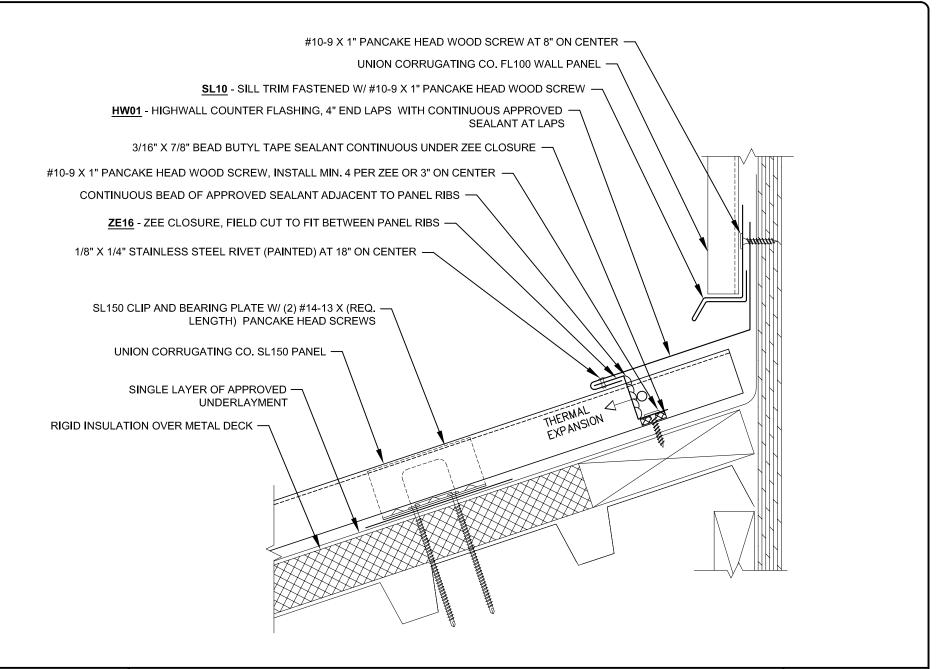
Detail No.: SL150-MD-5.40

Substrate: RIGID INSULATION OVER METAL DECK

Location:







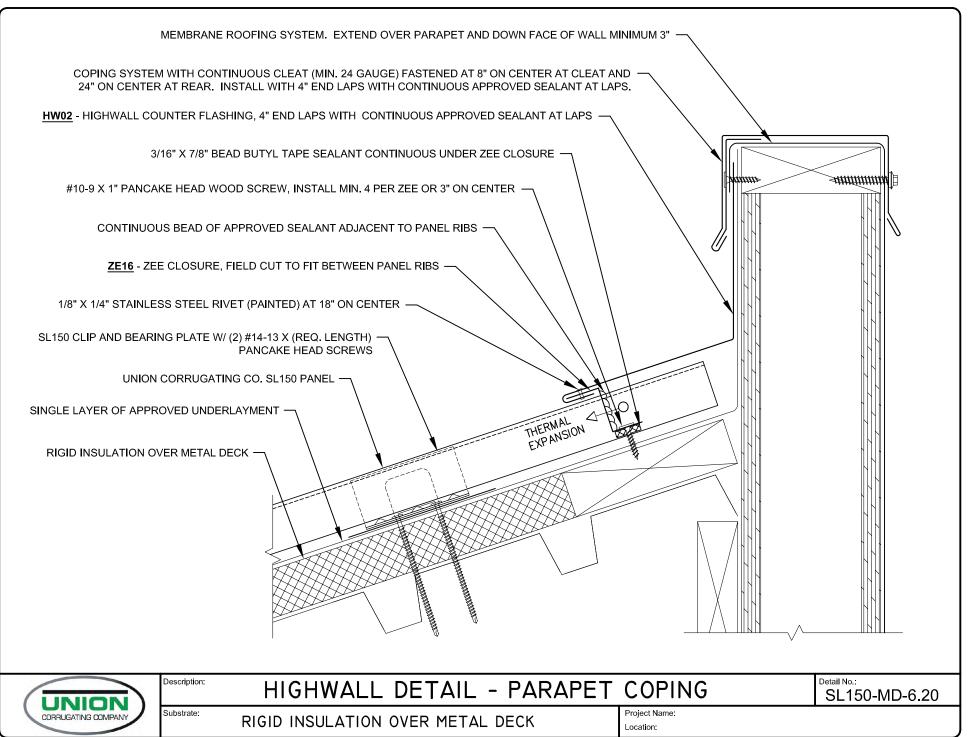


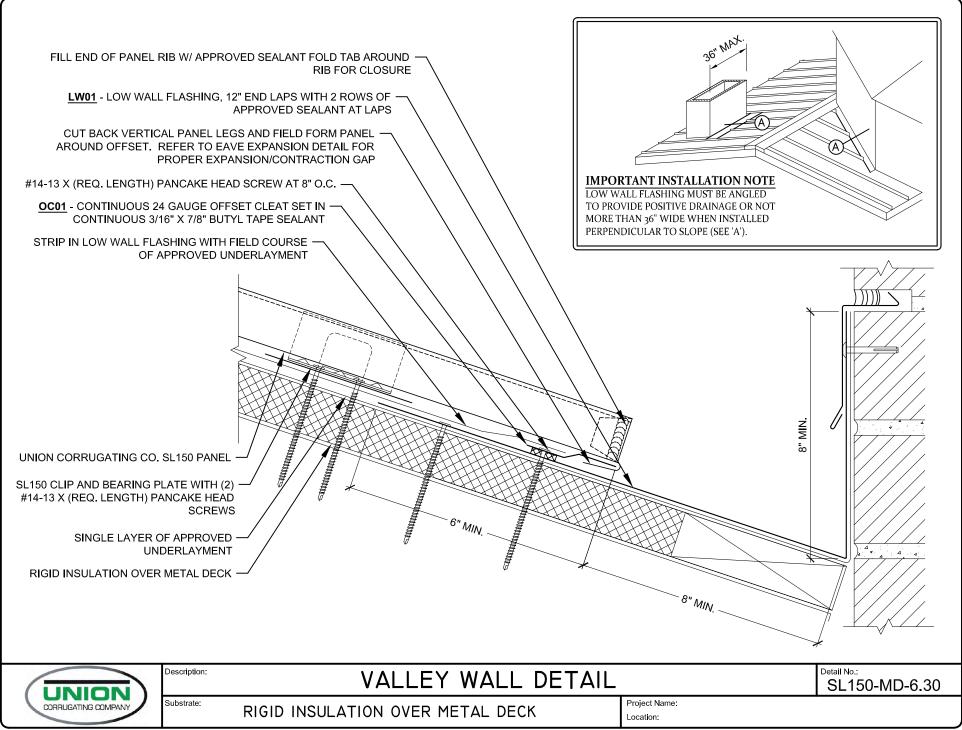
HIGHWALL DETAIL - WALL PANEL W/ SILL

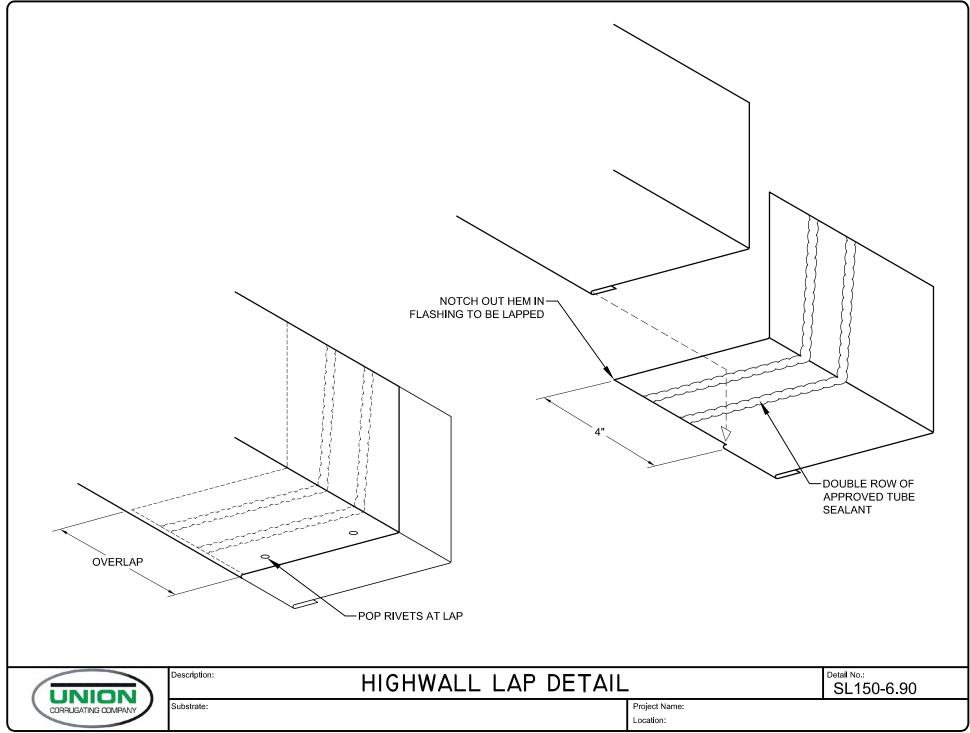
Detail No.:

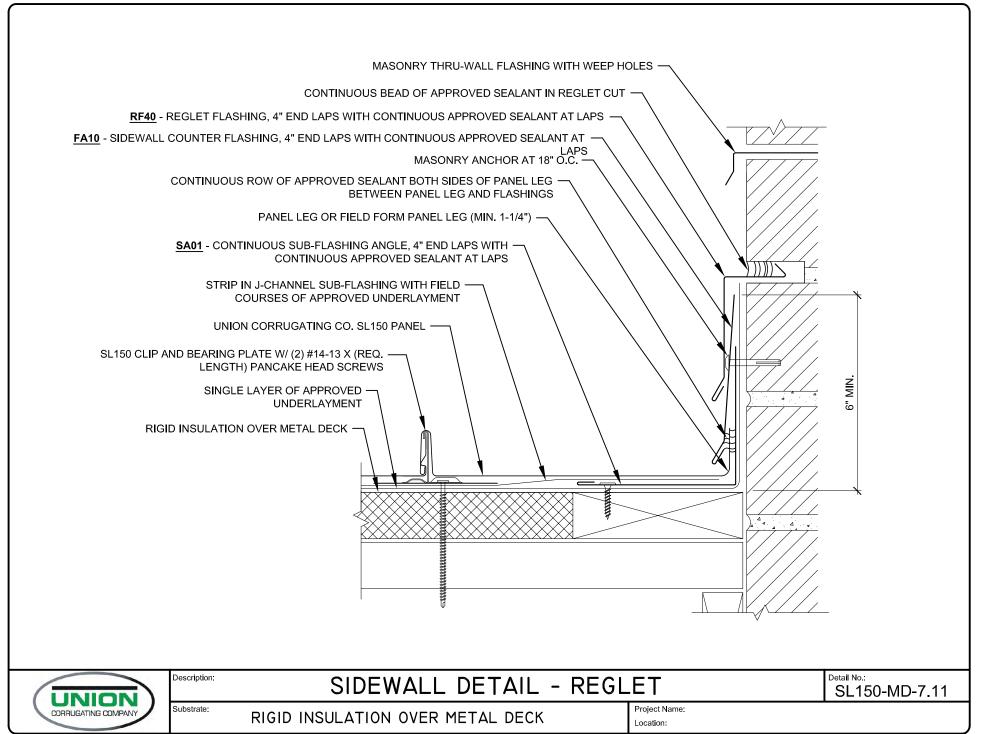
SL150-MD-6.14

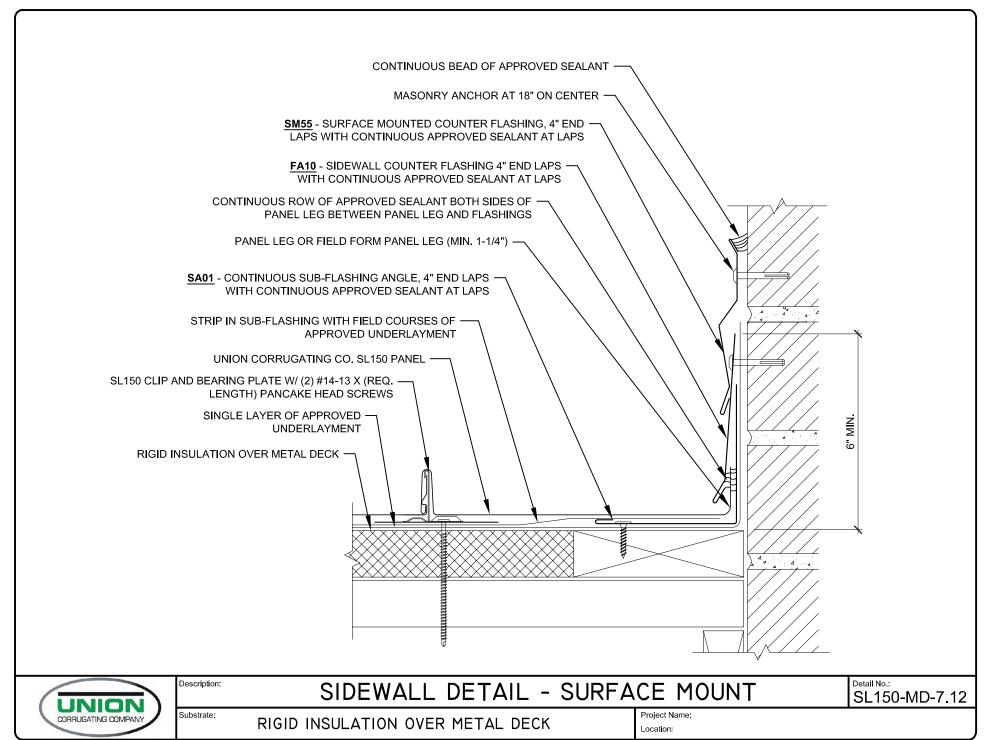
RIGID INSULATION OVER METAL DECK

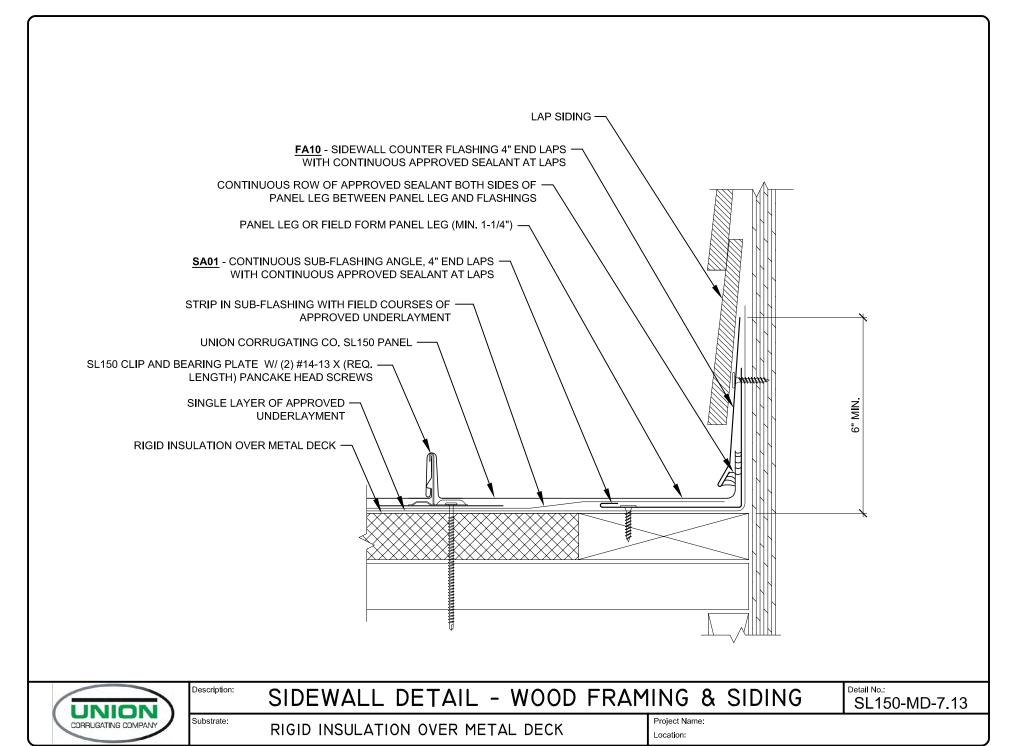


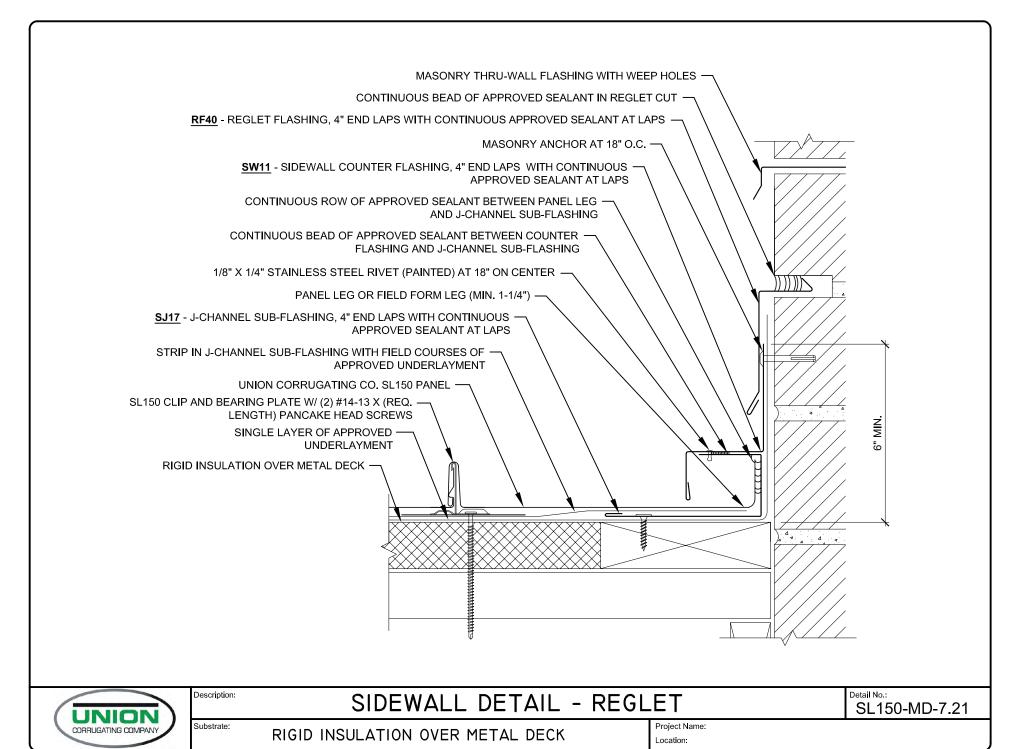


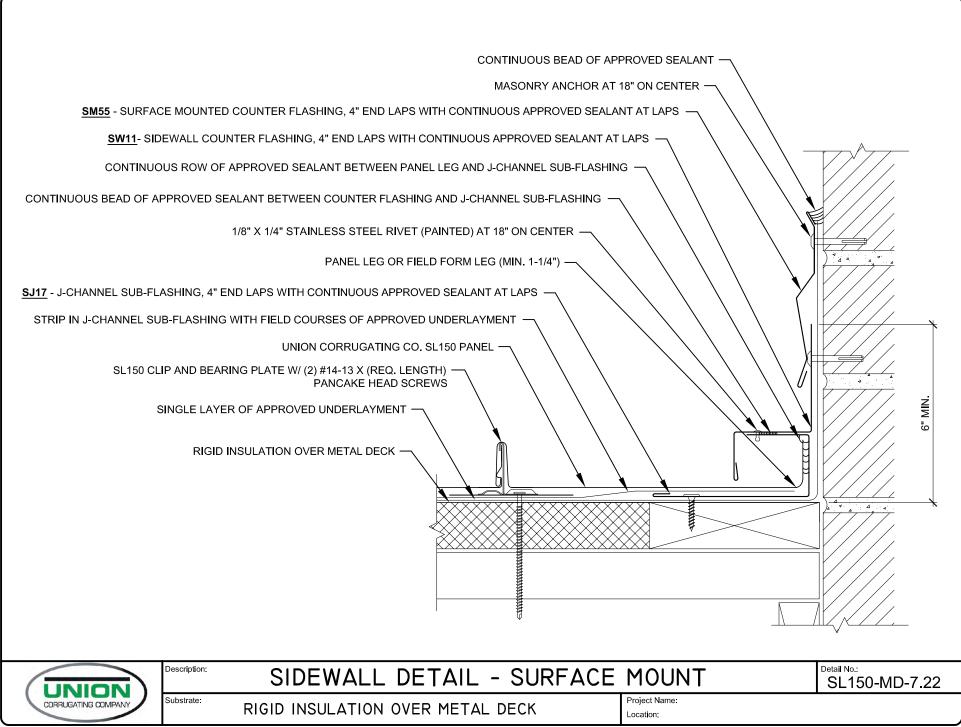


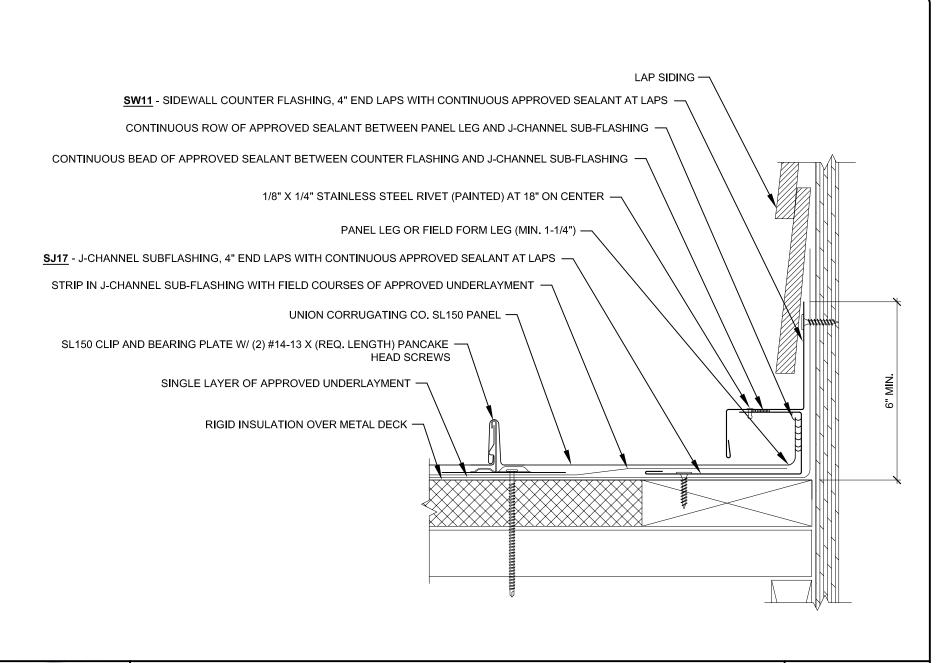












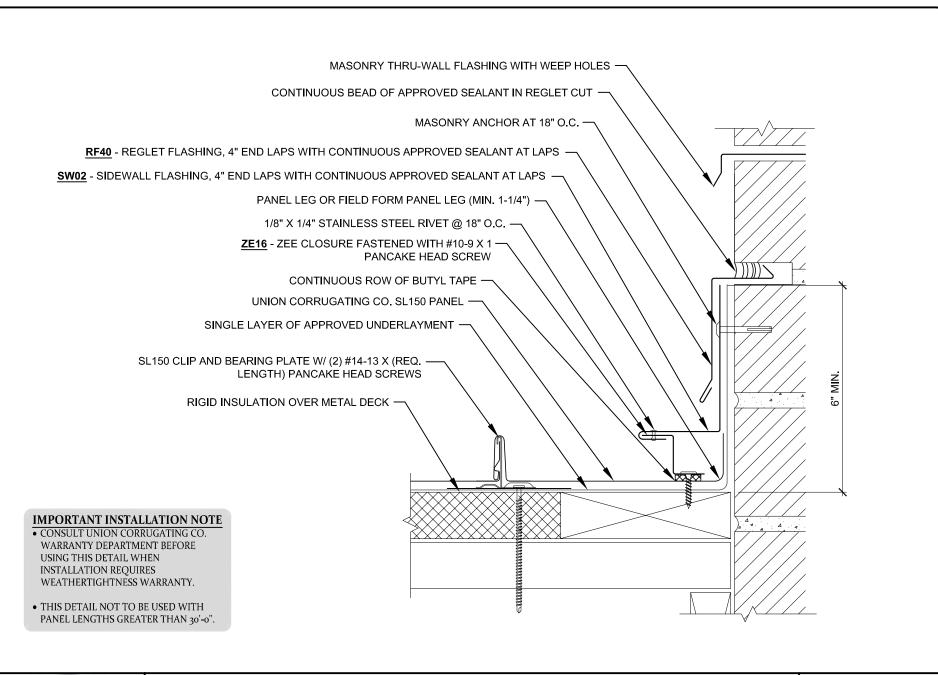


Description: SIDEWALL DETAIL - WOOD FRAMING & SIDING

Detail No.: SL150-MD-7.23

Substrate:

RIGID INSULATION OVER METAL DECK





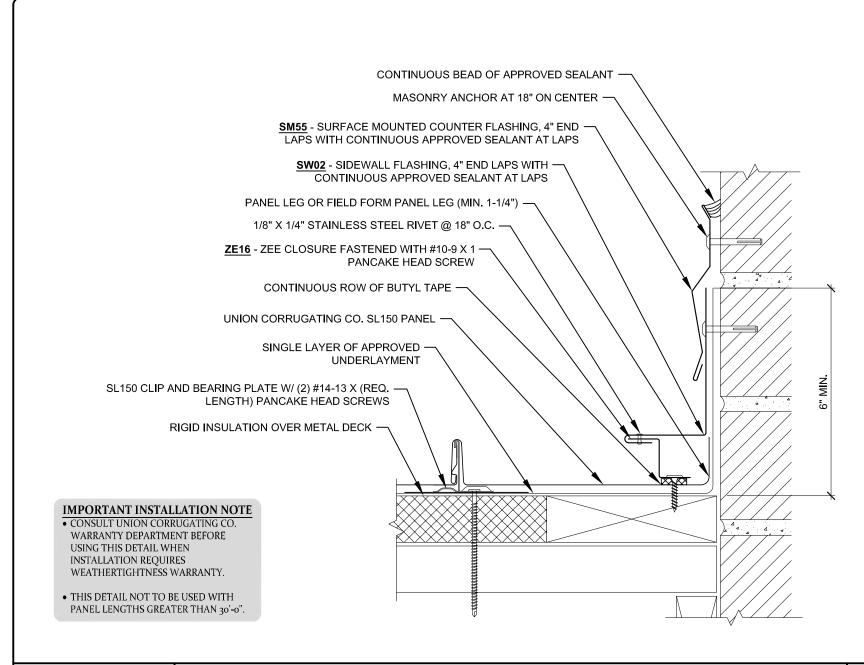
Description:

SIDEWALL W/ ZEE DETAIL - REGLET

Detail No.: SL150-MD-7.31

Substrate:

RIGID INSULATION OVER METAL DECK





Description:

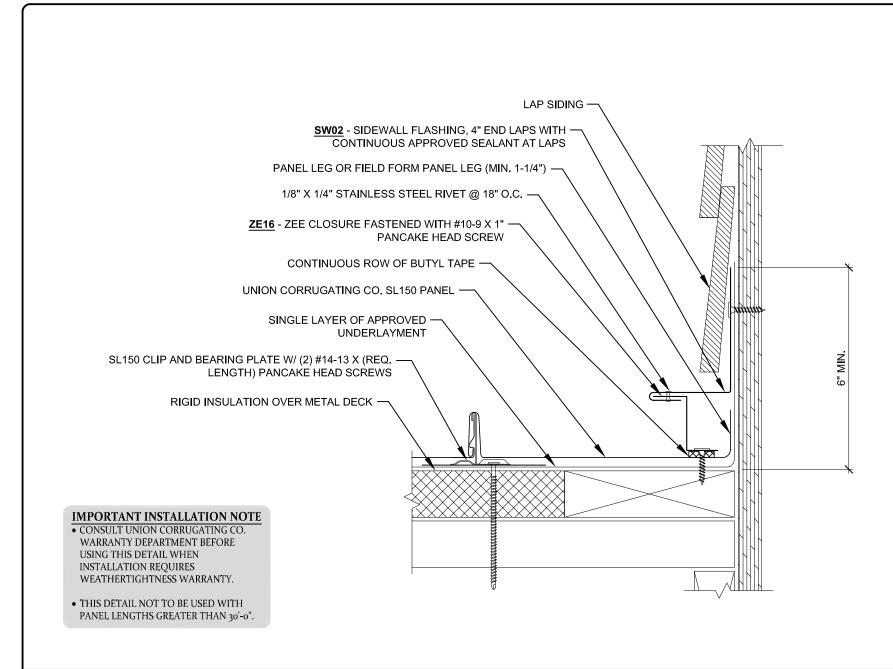
SIDEWALL W/ ZEE DETAIL - SURFACE MOUNT

Detail No.:

SL150-MD-7.32

Substrate:

RIGID INSULATION OVER METAL DECK





Description:

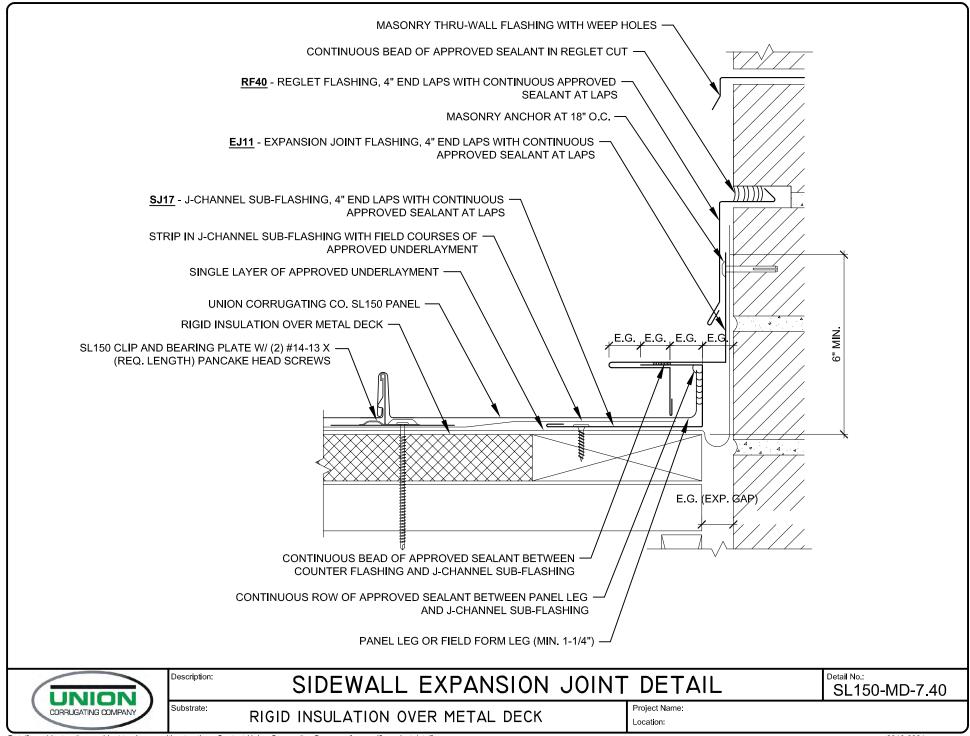
SIDEWALL W/ ZEE - WOOD FRAMING & SIDING

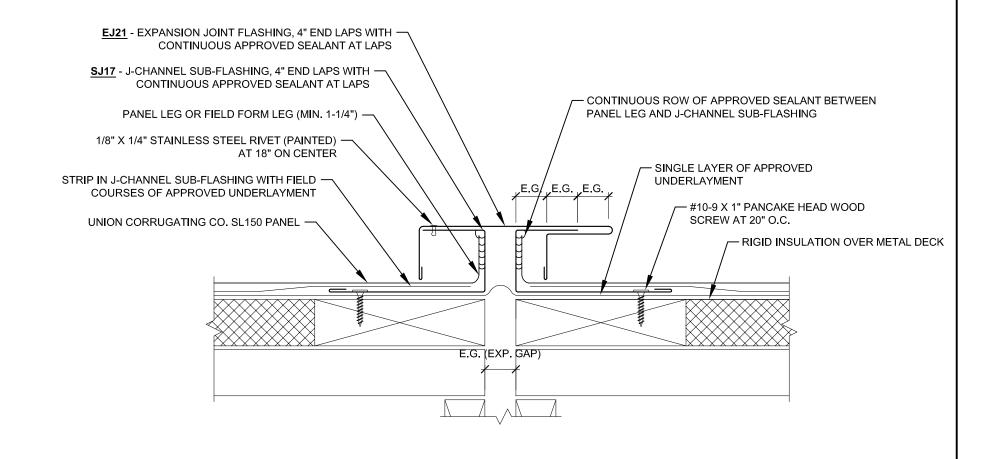
etail No.:

SL150-MD-7.33

Substrate:

RIGID INSULATION OVER METAL DECK







EXPANSION JOINT (MID-ROOF)

Detail No.:

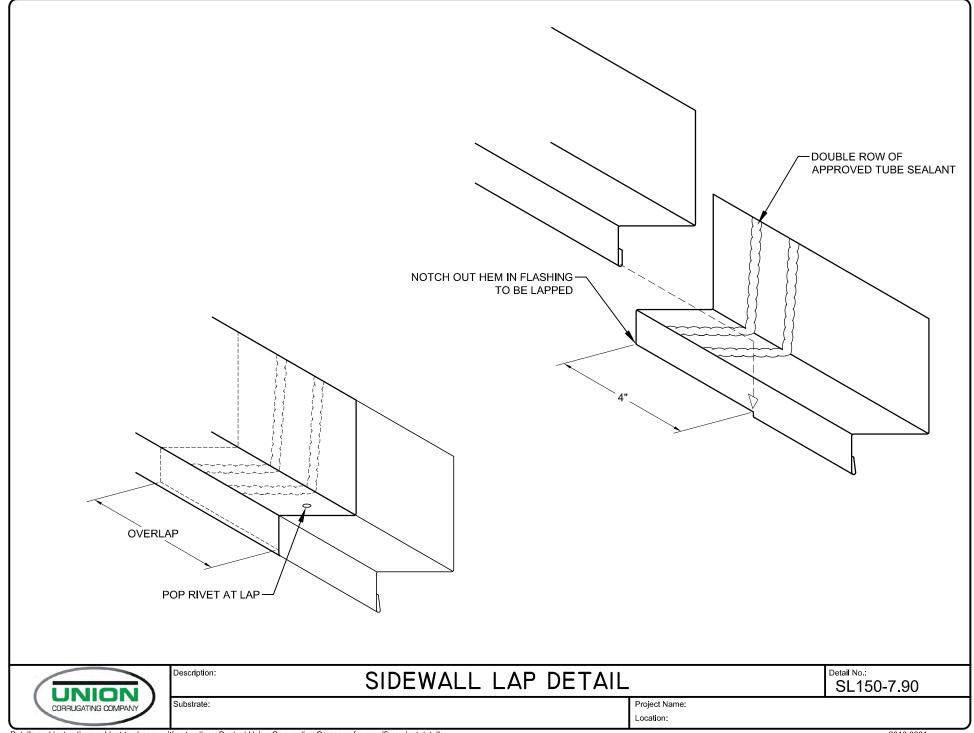
SL150-MD-7.50

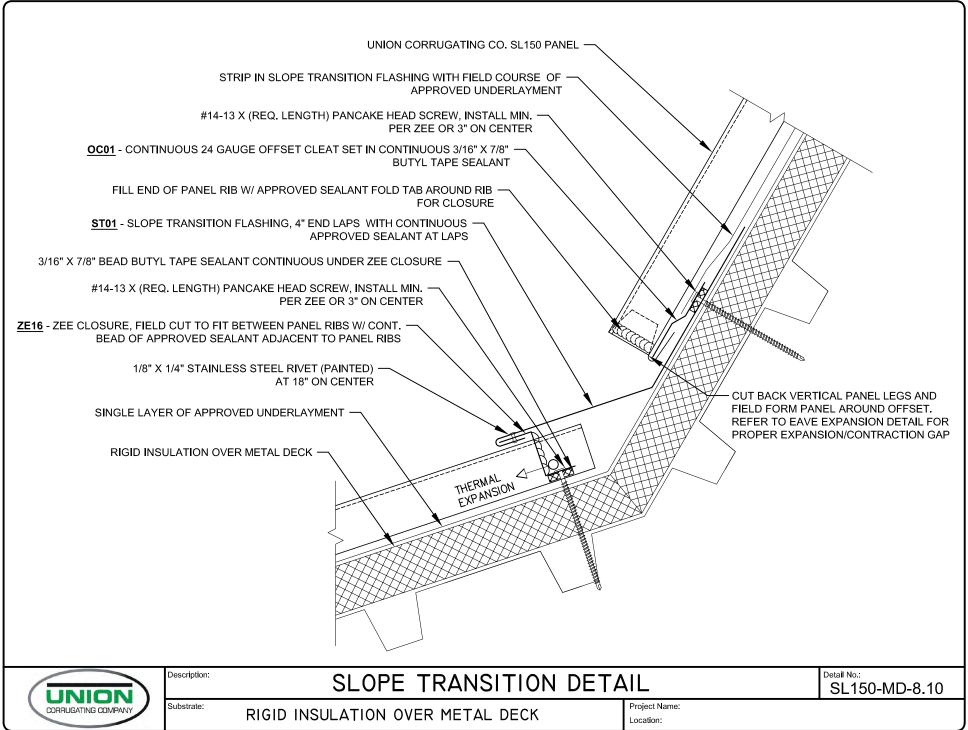
RIGID INSULATION OVER METAL DECK

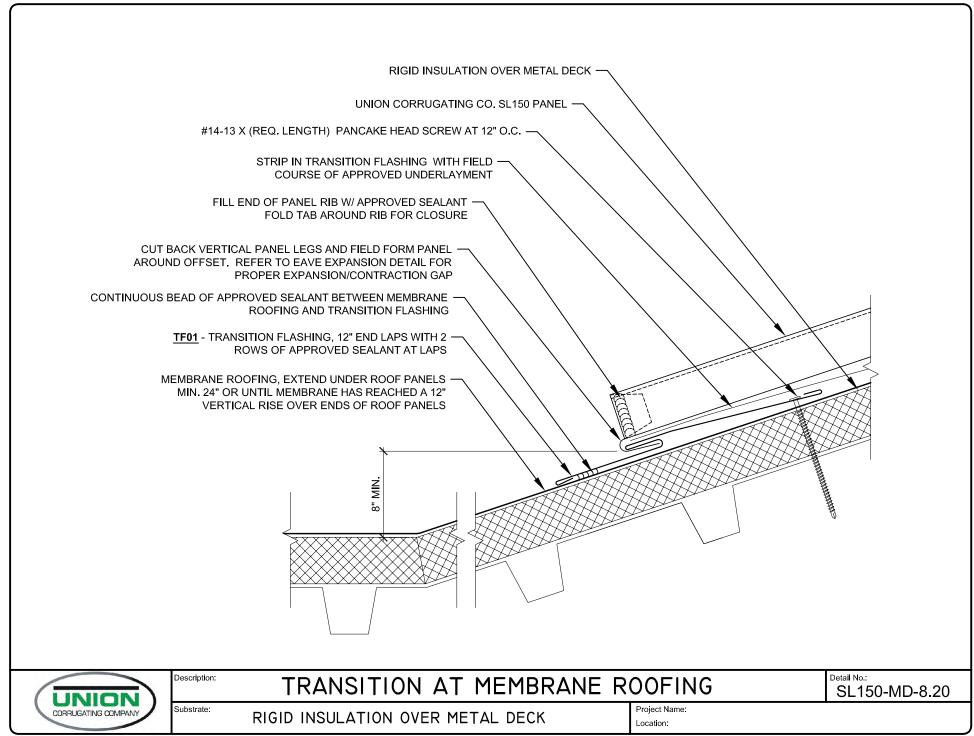
Project Name: Location:

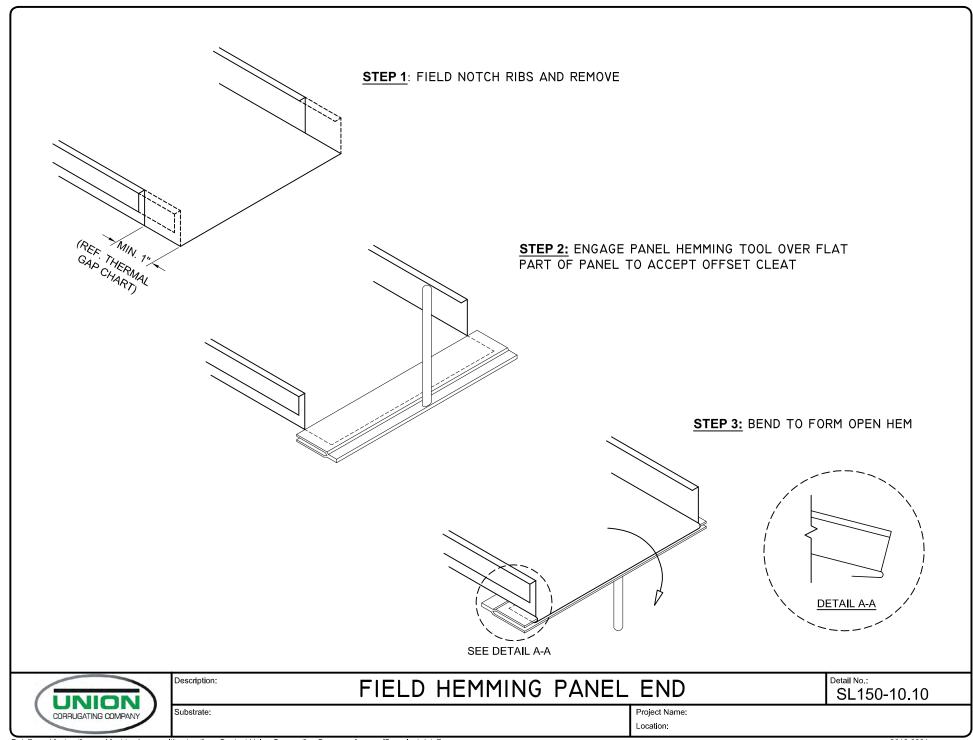
Description:

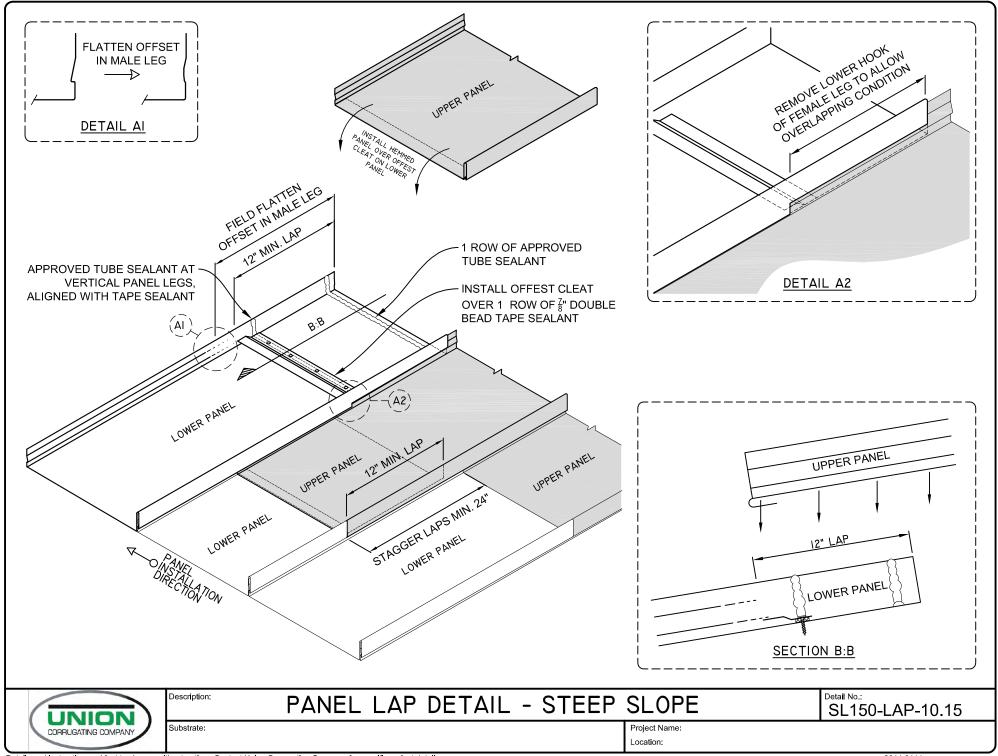
Substrate:

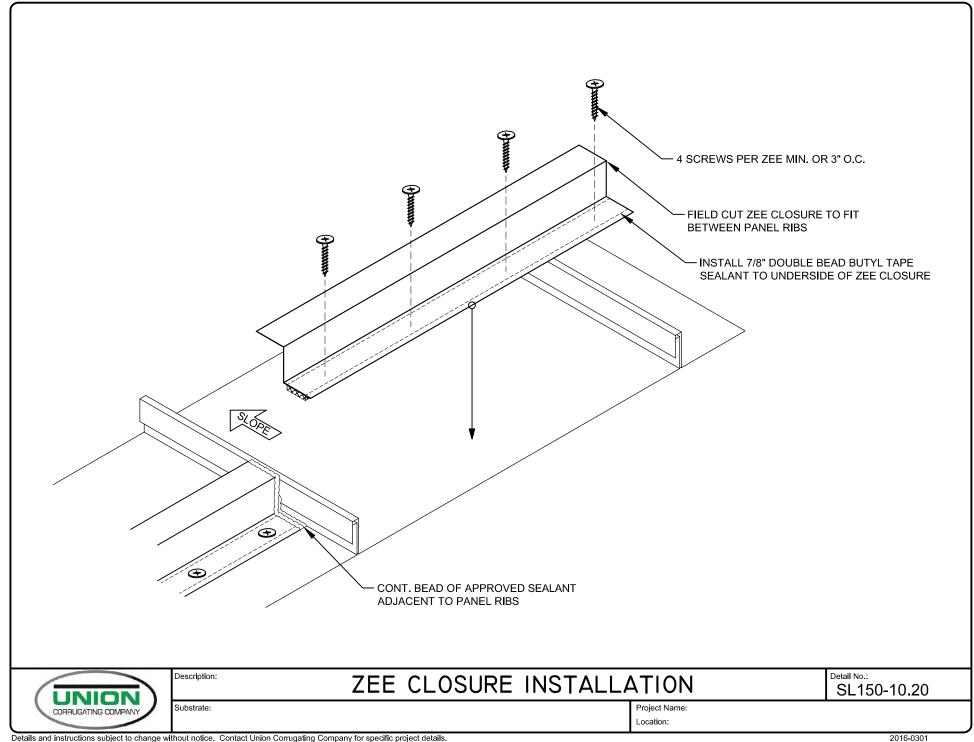


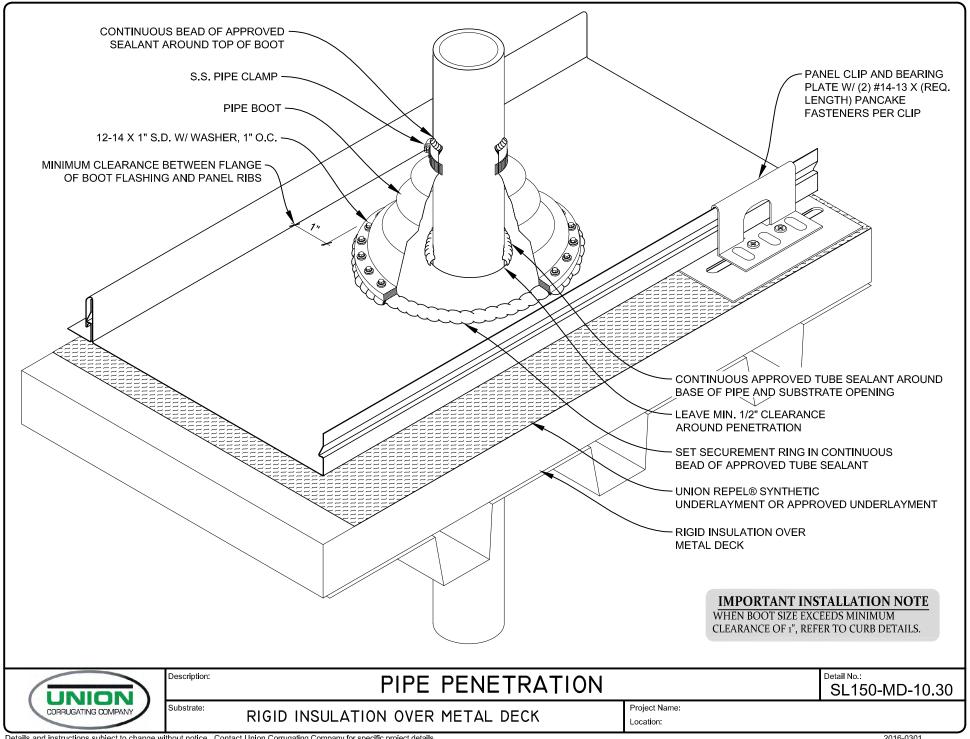


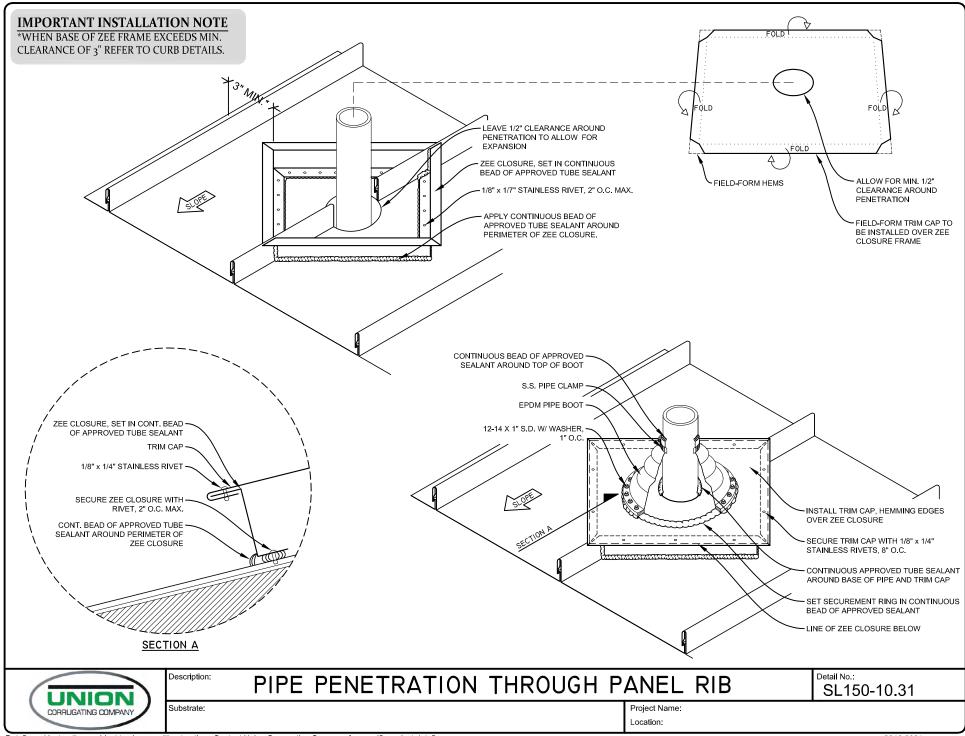


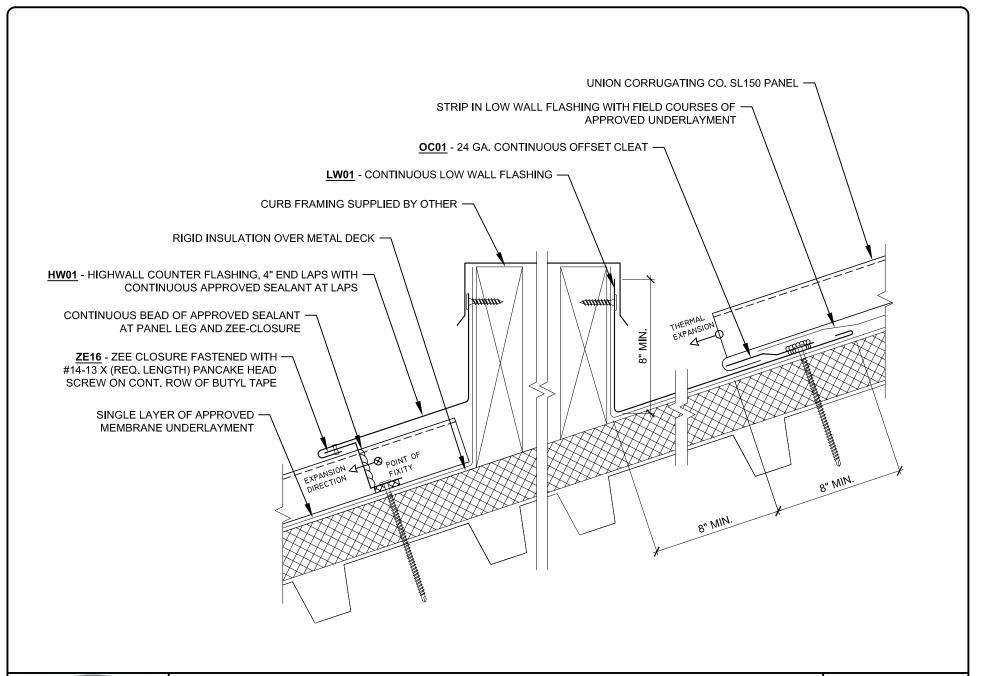










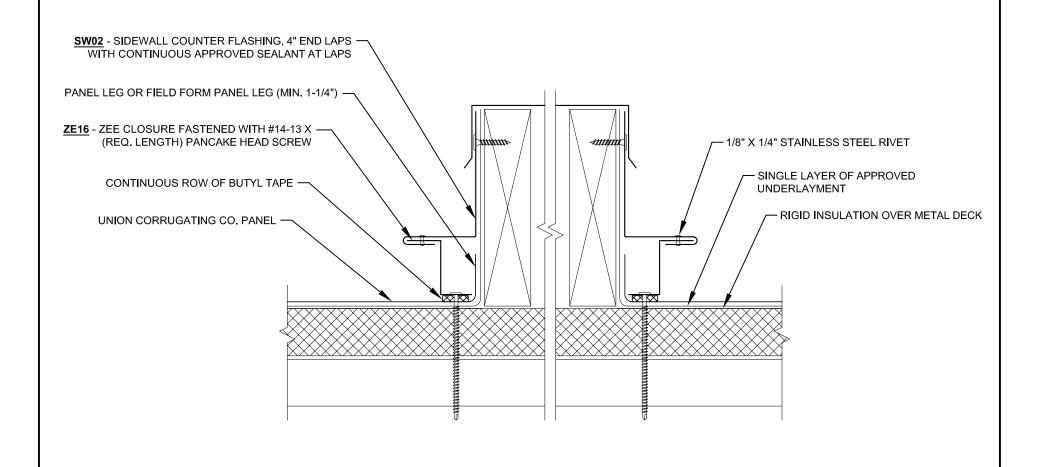




Description: LOW WALL & HIGHWALL @ SQUARE PENETRATION

Detail No.: SL150-MD-10.40

Substrate: RIGID INSULATION OVER METAL DECK



SIDEWALL @ SQUARE PENETRATION

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

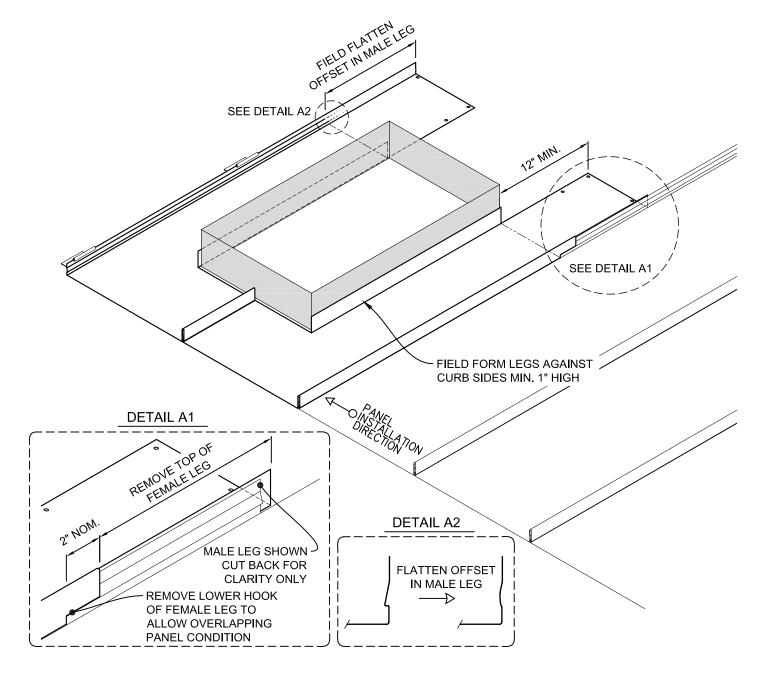
Description:

Substrate:

CORRUGATING COMPANY

SL150-MD-10.41

STEP I INSTALL PANELS AROUND CURB.





SLI50 CURB DETAILS - STEP I

Project Name:

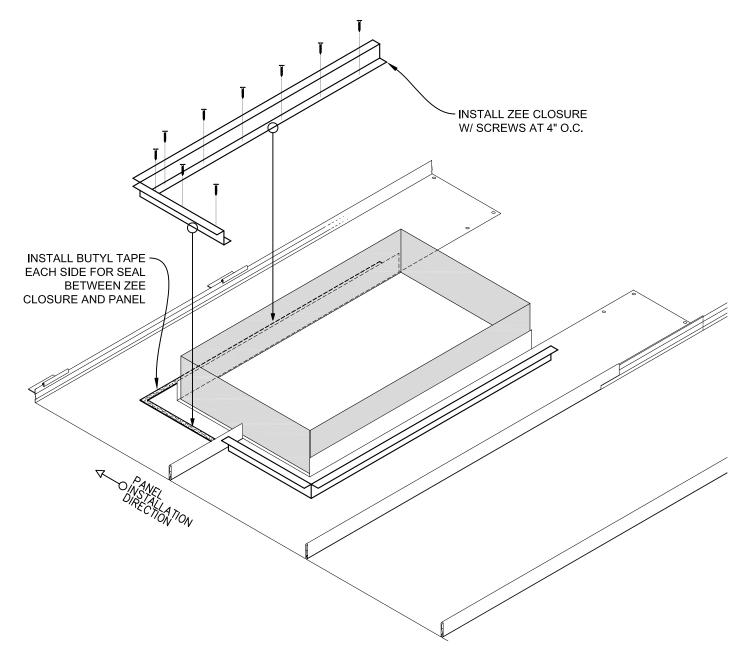
GENERAL INFORMATION

Location:

SL150-CRB: 1 of 6

STEP 2

APPLY ZEE CLOSURE FLASHING OVER DOUBLE BEAD MASTIC





SLI50 CURB DETAILS - STEP 2

SL150-CRB: 2 of 6

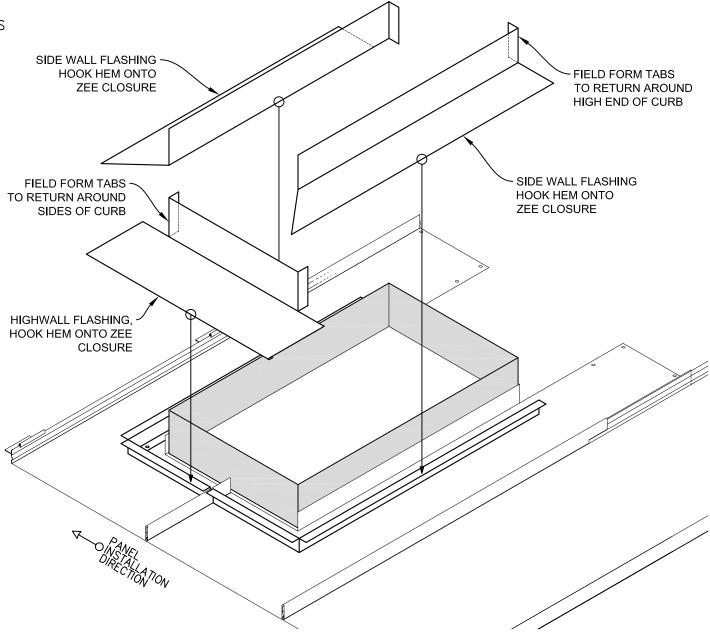
Substrate:

Project Name: Location:

GENERAL INFORMATION

STEP 3

INSTALL SIDEWALL AND HIGH WALL FLASHINGS ATOP ZEE CLOSURE.





SLI50 CURB DETAILS - STEP 3

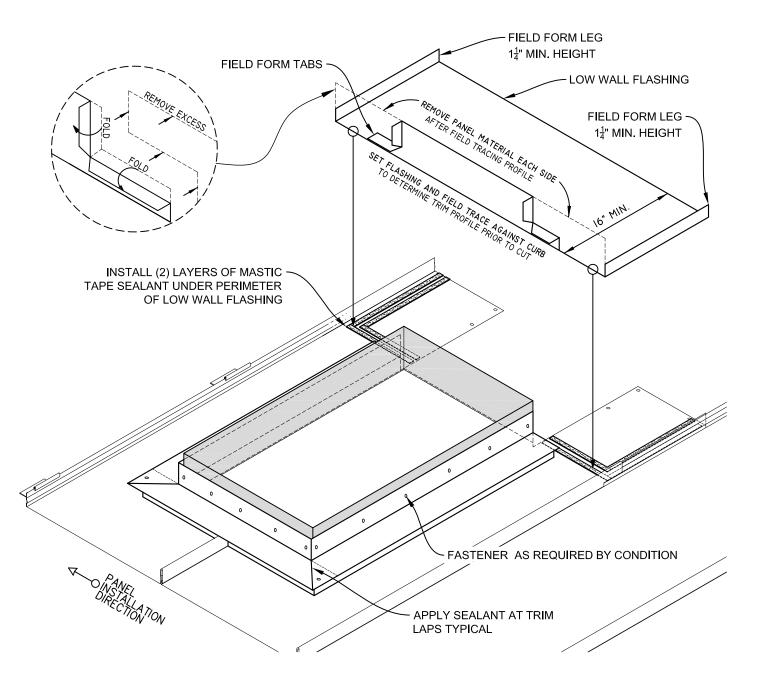
SL150-CRB: 3 of 6

•

Project Name: Location:

GENERAL INFORMATION

STEP 4 INSTALL LOW WALL FLASHING





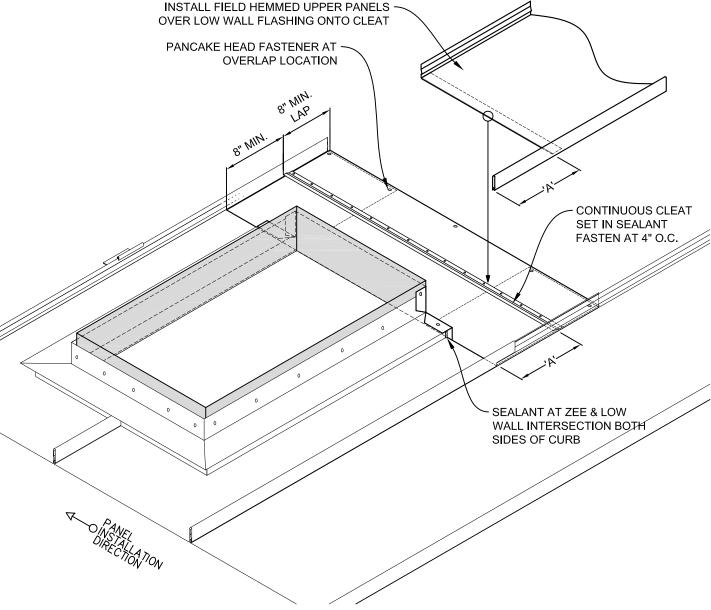
SLI50 CURB DETAILS - STEP 4

SL150-CRB: 4 of 6

Substrate: GENERAL INFORMATION

STEP 5

INSTALL CLEAT AND PREPARE FOR UPPER PANEL INSTALLATION.





Description: SLI50 CURB DETAILS - STEP 5

SL150-CRB: 5 of 6

Substrate:

Project Name:

Location:

GENERAL INFORMATION

