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.

SL150 CLIP

#14-13x (REQ. LENGTH) PANCAKE HEAD WOOD SCREW 2 PER CLIP ATOP BEARING PLATE

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION

METAL DECKING

SL150 PANEL
### Panel Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Application</td>
<td>0.10</td>
</tr>
<tr>
<td>System Overview - Panel Profiles</td>
<td>0.20</td>
</tr>
<tr>
<td>System Overview - Clips</td>
<td>0.21</td>
</tr>
<tr>
<td>Thermal Gap Installation Chart - Steel</td>
<td>0.30</td>
</tr>
<tr>
<td>Thermal Gap Installation Chart - Aluminum</td>
<td>0.31</td>
</tr>
</tbody>
</table>

### Eave Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extended Eave</td>
<td>1.10</td>
</tr>
<tr>
<td>Extended Eave - Steep Slope</td>
<td>1.10A</td>
</tr>
<tr>
<td>Extended Eave with Gutter</td>
<td>1.20</td>
</tr>
<tr>
<td>Extended Eave with Gutter - Steep Slope</td>
<td>1.20A</td>
</tr>
<tr>
<td>Extended Eave with Soffit</td>
<td>1.30</td>
</tr>
<tr>
<td>Extended Eave with Soffit &amp; Gutter</td>
<td>1.40</td>
</tr>
<tr>
<td>Extended Eave with Vertical Flush Panel</td>
<td>1.50</td>
</tr>
<tr>
<td>Extended Eave with Vertical Standing Seam Panel</td>
<td>1.60</td>
</tr>
<tr>
<td>Extended Eave Lap Detail</td>
<td>1.90</td>
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### Gable Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gable - Extended Drip</td>
<td>2.10</td>
</tr>
<tr>
<td>Gable - Box</td>
<td>2.20</td>
</tr>
<tr>
<td>Gable - Box with Zee Closure</td>
<td>2.30</td>
</tr>
<tr>
<td>Box Gable Lap Detail</td>
<td>2.90</td>
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</table>

### Valley Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
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<tbody>
<tr>
<td>Valley - Integral Cleat</td>
<td>3.10</td>
</tr>
<tr>
<td>Valley - Offset Cleat</td>
<td>3.20</td>
</tr>
<tr>
<td>Valley Lap Detail</td>
<td>3.90</td>
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</table>

### Ridge & Hip Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Ridge &amp; Hip</td>
<td>4.10</td>
</tr>
<tr>
<td>Ridge Termination at Valley</td>
<td>4.40</td>
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<tr>
<td>Ridge &amp; Hip Lap Detail</td>
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<tr>
<td>Ridge Cap Expansion Detail</td>
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### Peak Details

<table>
<thead>
<tr>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Peak Detail</td>
<td>5.10</td>
</tr>
<tr>
<td>Peak Detail with Vertical Flush Panel</td>
<td>5.40</td>
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</tbody>
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(Continued...)
## High Wall & Low Wall Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Wall - Reglet</td>
<td>6.10</td>
</tr>
<tr>
<td>High Wall - Surface Mount</td>
<td>6.12</td>
</tr>
<tr>
<td>High Wall - Vertical Panel with Sill</td>
<td>6.14</td>
</tr>
<tr>
<td>High Wall - Parapet</td>
<td>6.20</td>
</tr>
<tr>
<td>Valley Wall Detail</td>
<td>6.30</td>
</tr>
<tr>
<td>High Wall Lap Detail</td>
<td>6.90</td>
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</table>

## Sidewall Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sidewall - Reglet with Subflashign Angle</td>
<td>7.11</td>
</tr>
<tr>
<td>Sidewall - Surface Mount with Subflashign Angle</td>
<td>7.12</td>
</tr>
<tr>
<td>Sidewall - Wood Framing &amp; Siding with Subflashign Angle</td>
<td>7.13</td>
</tr>
<tr>
<td>Sidewall - Reglet with J-Channel Subflashign</td>
<td>7.21</td>
</tr>
<tr>
<td>Sidewall - Surface Mount with J-Channel Subflashign</td>
<td>7.22</td>
</tr>
<tr>
<td>Sidewall - Wood Framing &amp; Siding with J-Channel Subflashign</td>
<td>7.23</td>
</tr>
<tr>
<td>Sidewall - Reglet with Zee Closure</td>
<td>7.31</td>
</tr>
<tr>
<td>Sidewall - Surface Mount with Zee Closure</td>
<td>7.32</td>
</tr>
<tr>
<td>Sidewall - Wood Framing &amp; Siding with Zee Closure</td>
<td>7.33</td>
</tr>
<tr>
<td>Sidewall Expansion Joint</td>
<td>7.40</td>
</tr>
<tr>
<td>Expansion Joint Mid-Roof</td>
<td>7.50</td>
</tr>
<tr>
<td>Sidewall Lap Detail</td>
<td>7.90</td>
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</table>

## Slope Transition Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slope Transition</td>
<td>8.10</td>
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<tr>
<td>Transition at Membrane Roofing</td>
<td>8.20</td>
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</tbody>
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## General Information Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Hemming</td>
<td>10.10</td>
</tr>
<tr>
<td>End Lap Detail - Steep Slope</td>
<td>10.15</td>
</tr>
<tr>
<td>Zee Closure Installation</td>
<td>10.20</td>
</tr>
<tr>
<td>Pipe Penetration</td>
<td>10.30</td>
</tr>
<tr>
<td>Pipe Penetration Through Panel Rib</td>
<td>10.31</td>
</tr>
<tr>
<td>Curb at High Wall &amp; Low Wall</td>
<td>10.40</td>
</tr>
<tr>
<td>Curb at Sidewall</td>
<td>10.41</td>
</tr>
<tr>
<td>Curb Installation Detail</td>
<td>CRB 1-6</td>
</tr>
</tbody>
</table>
SL150 PANEL

SL150 CLIP AT REQUIRED INTERVAL FOR PROJECT SPECIFIC REQUIREMENTS

#14-13x (REQ. LENGTH) PANCAKE HEAD WOOD SCREW 2 PER CLIP ATOP BEARING PLATE

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION

METAL DECKING

SL150 APPLICATION

RIGID INSULATION OVER METAL DECK
Profile Option: Striated (Standard)

Profile Option: 2 Pencil Ribs

Profile Option: Smooth

SL150 CLIP W/ (2) FASTENERS TYP.
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.

Clip 10
20 Ga. Galvanized
1.5" x 2.25"

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

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

Clip 13 UL
18 Ga. Stainless Steel
1.5" x 3.5"
Recommended for use with aluminum panels

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

SL150 SYSTEM OVERVIEW - CLIPS

Description:

Substrate:

Project Name:

Location:

Detail No.: SL150-0.21

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.

2018-0301
### THERMAL "GAP" INSTALLATION CHART (In inches) - STEEL

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

<table>
<thead>
<tr>
<th>Distance from fixed point in feet</th>
<th>Material Temperature (Surface Temperature) During Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hot</td>
</tr>
<tr>
<td></td>
<td>&gt;100°F</td>
</tr>
<tr>
<td>10</td>
<td>0.145</td>
</tr>
<tr>
<td>20</td>
<td>0.289</td>
</tr>
<tr>
<td>30</td>
<td>0.434</td>
</tr>
<tr>
<td>40</td>
<td>0.579</td>
</tr>
<tr>
<td>50</td>
<td>0.724</td>
</tr>
<tr>
<td>60</td>
<td>0.868</td>
</tr>
<tr>
<td>70</td>
<td>1.013</td>
</tr>
<tr>
<td>80</td>
<td>1.158</td>
</tr>
<tr>
<td>90</td>
<td>1.302</td>
</tr>
<tr>
<td>100</td>
<td>1.447</td>
</tr>
</tbody>
</table>

* Chart based on temperature differential of: 180 degrees F

* Coefficient of thermal expansion for steel: 0.0000067

---

**THERMAL GAP INSTALLATION CHART - STEEL**

**Description:**

**Substrate:**

**Project Name:**

**Location:**

**Detail No.:** SL150-0.30

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
### THERMAL "GAP" INSTALLATION CHART (In inches) - ALUMINUM

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

<table>
<thead>
<tr>
<th>Distance from fixed point in feet</th>
<th>Material Temperature (Surface Temperature) During Installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot 100° ‡F</td>
<td>Warm 100° to 50° ‡F</td>
</tr>
<tr>
<td>10  0.279 1/4</td>
<td>0.139 1/8</td>
</tr>
<tr>
<td>20  0.557 9/16</td>
<td>0.279 1/4</td>
</tr>
<tr>
<td>30  0.836 13/16</td>
<td>0.418 7/15</td>
</tr>
<tr>
<td>40  1.115 1 1/8</td>
<td>0.557 9/15</td>
</tr>
<tr>
<td>50  1.393 1 3/8</td>
<td>0.697 11/16</td>
</tr>
<tr>
<td>60  1.672 1 11/16</td>
<td>0.836 13/15</td>
</tr>
<tr>
<td>70  1.950 1 15/16</td>
<td>0.975 1</td>
</tr>
<tr>
<td>80  2.229 2 1/4</td>
<td>1.115 1 1/8</td>
</tr>
<tr>
<td>90  2.508 2 1/2</td>
<td>1.254 1 1/4</td>
</tr>
<tr>
<td>100 2.786 2 13/16</td>
<td>1.393 1 3/8</td>
</tr>
</tbody>
</table>

* Chart based on temperature differential of: 180 degrees F

* Coefficient of thermal expansion for alum.: 0.0000129
SL150 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

EE03 - EXTENDED EAVE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

THERMAL EXPANSION

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIP EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 12" ON CENTER

FA# - FASCIA COVER, 2" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

EXTENDED EAVE

RIGID INSULATION OVER METAL DECK
UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE WITH (2) #14- 13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

ES03 - EXTENDED EAVE STEEP SLOPE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIP EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 12" ON CENTER

FA## - FASCIA COVER, 2" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

EXTENDED EAVE - STEEP SLOPE

RIGID INSULATION OVER METAL DECK

Project Name:
Location:

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.

2018-0301
EXTENDED EAVE WITH GUTTER

RIGID INSULATION OVER METAL DECK

SL150 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL.

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

EE02 - EXTENDED EAVE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIP EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

THERMAL EXPANSION

18 GA. GALVANIZED STEEL HIDDEN HANGER AT 24" ON CENTER

GT07 - 7" GUTTER, LAP AND SEAL CONTINUOUS WITH 2 ROWS OF APPROVED SEALANT. RIVET AT LAPS 2" ON CENTER.

FA10 - FASCIA COVER, 2" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
EXTENDED EAVE W/ GUTTER- STEEP SLOPE

RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

ES02 - EXTENDED EAVE STEEP SLOPE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 12" ON CENTER

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIP EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

THERMAL EXPANSION

18 GA. GALVANIZED STEEL HIDDEN HANGER AT 24" ON CENTER

GT07 - 7" GUTTER, LAP AND SEAL CONTINUOUS WITH 2 ROWS OF APPROVED SEALANT. RIVET AT LAPS 2" ON CENTER.

FA## - FASCIA COVER, 2" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS
EXTENDED EAVE WITH SOFFIT

RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

EE03 - EXTENDED EAVE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIP EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 12" ON CENTER

FA## - FASCIA COVER, 2" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

FC03 - FASCIA CLEAT WITH SOFFIT RETURN

JC10 - J-CHANNEL

FL100 SOFFIT
EXTENDED EAVE WITH SOFFIT & GUTTER

RIGID INSULATION OVER METAL DECK

SL150 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

STRIP IN DRIp EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

EE02 - EXTENDED EAVE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIp EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

THERMAL EXPANSION

18 GA. GALVANIZED STEEL HIDDEN HANGER AT 24" ON CENTER

GT07 - 7" GUTTER, LAP AND SEAL CONTINUOUS WITH 2 ROWS OF APPROVED SEALANT. RIVET AT LAPS 2" ON CENTER.

FA## - FASCIA COVER, 2" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

FC03 - FASCIA CLEAT WITH SOFFIT RETURN

JC10 - J-CHANNEL

FL100 SOFFIT
SL150 CLIP AND BEARING PLATE WITH (2) #14 -13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL

UNION CORRUGATING CO. SL150 PANEL

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

EE03 - EXTENDED EAVE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

THERMAL EXPANSION

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIP EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" ON CENTER

UNION CORRUGATING CO. FL100 PANEL

SL10 - SILL TRIM FASTENED W/ #10-9 X 1" PANCAKE HEAD WOOD SCREW

EXTENDED EAVE W/ VERTICAL FLUSH PANEL

RIGID INSULATION OVER METAL DECK

Detail No.: SL150-MD-1.50

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
EXT. EAVE W/ VERTICAL STANDING SEAM PANELS

- **UNION CORRUGATING CO. SL150 PANEL**
  - **SINGLE LAYER OF APPROVED UNDERLAYMENT**
  - **STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT**
  - **#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED**
  - **EE03 - EXTENDED EAVE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS**

- **THERMAL EXPANSION**
  - **CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND DRIP EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP**
  - **"CUSTOM J-CHANNEL TRIM**

- **#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 12" ON CENTER**

- **UNION CORRUGATING CO. SL150 PANEL**

- **SL150 CLIP WITH (2) #10-9 X 1" PANCAKE HEAD WOOD SCREWS**

- **SL11 - STILL TRIM FASTENED W/ #10-9 X 1" PANCAKE HEAD WOOD SCREW**

- **SL150 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS. NOTE: INSTALL 2 CLIPS AT EAVE TYPICAL**

- **RIGID INSULATION OVER METAL DECK**

---

**Description:**

**Substrate:**

**RIGID INSULATION OVER METAL DECK**

**Project Name:**

**Location:**

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Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
NOTCH OUT UPPER AND LOWER BENDS IN FLASHING TO BE LAPPED

DOUBLE ROW OF APPROVED TUBE SEALANT

OVERLAP

4"
SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

RIGID INSULATION OVER METAL DECK

SINGLE LAYER OF APPROVED UNDERLAYMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" O.C. STAGGERED

**EG03** - EXTENDED GABLE DRIP EDGE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAYMENT

REMOVE PANEL LEG AND FIELD FORM PANEL AROUND DRIP EDGE CONTINUOUS (MIN. 3/4")

#10-9 X 1" PANCAKE FASTENER, 12" O.C.

**FAS** - FASCIA COVER, 2" END LAPS W/ CONTINUOUS APPROVED SEALANT AT LAPS
RIGID INSULATION OVER METAL DECK

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYERMENT

STRIP IN J-CHANNEL WITH FIELD COURSE OF APPROVED UNDERLAYERMENT

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 18" O.C.

1/8" X 1/4" STAINLESS RIVET (PAINTED) AT 12" ON CENTER

SJ17 - J-CHANNEL SUB-FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

BG12 - BOX GABLE TRIM, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CONTINUOUS BEAD OF APPROVED SEALANT BETWEEN PANEL LEG AND J-CHANNEL

PANEL LEG OR FIELD FORM PANEL LEG MIN. HEIGHT OF 1 1/4"

CL01 - CONTINUOUS CLEAT

#10-9 X 1" PANCAKE FASTENER, 12" O.C.

FA00 - FASCIA COVER, 2" END LAPS W/ CONTINUOUS APPROVED SEALANT AT LAPS

FIELD-CRIMP GABLE LEG ONTO CLEAT, CONT.
Description: GABLE DETAIL - BOX STYLE W/ Z-CLOSURE

RIGID INSULATION OVER METAL DECK

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
DOUBLE ROW OF APPROVED TUBE SEALANT

NOTCH OUT UPPER AND LOWER HEMS IN FLASHING TO BE LAPPED

OVERLAP

4"
IMPORTANT INSTALLATION NOTE
EACH VALLEY SECTION IS MADE
PROGRESSIVELY SMALLER TO ALLOW
UPPER SECTION TO INSERT INTO LOWER
SECTION. NO FIELD NOTCHING AT LAP.

RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL150 PANEL

#14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW AT 12" O.C.

STRIP IN VALLEY FLASHING
WITH FIELD COURSE OF APPROVED UNDERLAYMENT

FILL END OF PANEL RIB W/ APPROVED SEALANT
FOLD TAB AROUND RIB FOR CLOSURE

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL
AROUND OFFSET. REFER TO EAVE EXPANSION DETAIL FOR
PROPER EXPANSION/CONTRACTION GAP

SINGLE LAYER OF APPROVED
UNDERLAYMENT

VB1A - INTEGRAL VALLEY FLASHING, 12" END LAPS
WITH 2 ROWS OF APPROVED SEALANT AT LAPS

6"

RIGID INSULATION OVER METAL DECK

VALLEY DETAIL - INTEGRAL CLEAT
UNION CORRUGATING CO. SL150 PANEL
RIGID INSULATION OVER METAL DECK

STRIP IN VALLEY FLASHING WITH FIELD COURSE OF APPROVED UNDERLAYMENT

#14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW AT 8" O.C.

**OC01** - CONTINUOUS 24 GAUGE OFFSET CLEAT SET IN CONTINUOUS 3/16" X 7/8" BUTYL TAPE SEALANT

FILL END OF PANEL RIB W/ APPROVED SEALANT FOLD TAB AROUND RIB FOR CLOSURE

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND OFFSET. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

**VA01** - VALLEY FLASHING, 12" END LAPS WITH 2 ROWS OF APPROVED SEALANT AT LAPS

6" MIN.

**IMPORTANT INSTALLATION NOTE**
CONSULT UNION CORRUGATING CO.
WARRANTY DEPARTMENT BEFORE USING THIS DETAIL WHEN INSTALLATION REQUIRES WEATHERTIGHTNESS WARRANTY.

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**Description:** RIGID INSULATION OVER METAL DECK

**Detail No.:** SL150-MD-3.20

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Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.

2016-0301
IMPORTANT INSTALLATION NOTE

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

DOUBLE ROW OF APPROVED TUBE SEALANT

FASTEN VALLEY AT TOP END UNDER LAP

TELESCOPING VALLEY FLASHING LAP
RC05 - RIDGE CAP, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

#14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW, INSTALL MIN. 4 PER ZEE OR 3" ON CENTER

3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

CONTINUOUS BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

ZE16 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS
RIDGECAP TABS TO BE FIELD CUT AND FORMED ONTO INTERSECTING ROOF PLANE. TUCK TABS INTO VALLEY OFFSET HEM
UNION CORRUGATING CO. PANELS

CONTINUOUS BEAD OF SEALANT AT RIDGE CAP

ZEE CLOSURE

SECTION A-A

SEE RIDGE DETAIL

HEM PANEL ENDS AROUND VALLEY OFFSET HEM

VALLEY FLASHING

CONTINUOUS BEAD OF SEALANT UNDER ZEE CLOSURE

UNION CORRUGATING CO. PANEL, HEMMED AROUND VALLEY OFFSET

SECTION A-A

RIDGE CAP, TUCK TABS INTO VALLEY OFFSET HEM 1"

CONTINUOUS BEAD OF SEALANT AT END OF RIDGE CAP

ZEE CLOSURE, TAPERED TO ROOF SLOPE

VALLEY FLASHING
IMPORTANT INSTALLATION NOTE
REFER TO HIP/RIDGE CAP EXPANSION DETAIL FOR HIP/RIDGE LENGTHS OVER 40'-0".

NOTCH OUT HEMS IN RIDGE CAP TO BE LAPPED

2 ROWS OF APPROVED TUBE SEALANT EACH SIDE

OVERLAP

POP RIVETS AT LAP

HIP & RIDGE CAP LAP DETAIL

SL150-4.90
**STEP 1**

- Notch out hems in ridge cap to allow 4" lap.
- Notch out hems 2" to allow expansion.
- 2 rows of approved tube sealant each side.

**IMPORTANT INSTALLATION NOTE**

Use at every 40° of continuous ridge. Do not pop rivet lapped flashing.

**STEP 2**

- Field form cover plate hem around lapped ridge caps.
- 2 rows of tube sealant each side.
- 4" lap.
- 2"

**STEP 3**

- 6" cover plate.
- Line of overlap.
- Field form cover plate hem around lapped ridge caps.

**Description:**

- Project Name:
- Location:
- SL150-4.91

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
**PEAK DETAIL**

**PK72** - PEAK FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS
3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

#10-9 X 1" PANCAKE HEAD WOOD SCREW, INSTALL MIN. 4 PER ZEE OR 3" ON CENTER

CONTINUOUS BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

**ZE16** - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS
1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL150 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

**PC72** - CONTINUOUS CLEAT (MIN. 24 GA. GALVANIZED STEEL)

#10-9 X 1" PANCAKE HEAD WOOD SCREW AT 8" ON CENTER

**FA##** - FASCIA COVER, 2" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

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**Description:**
UNION CORRUGATING COMPANY

**Detail No.:**
SL150-MD-5.10

**Substrate:**
RIGID INSULATION OVER METAL DECK

**Project Name:**

**Location:**
**PK55** - PEAK FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS
3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

#10-9 X 1" PANCAKE HEAD WOOD SCREW, INSTALL MIN. 4 PER ZEE OR 3" ON CENTER

CONTINUOUS BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

**ZE16** - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS
1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL150 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

**PC55** - CONTINUOUS CLEAT (MIN. 24 GA. GALVANIZED STEEL)

#12-14 X 1" PANCAKE HEAD SELF-DRILLING SCREW AT 8" ON CENTER

**FL100** - FLUSH METAL WALL PANEL

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**Description:**

**Project Name:**

**Location:**

**Substrate:**

**Detail No.:**

SL150-MD-5.40

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.

2016-0301
RF40 - REGLET FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

HW02 - HIGHWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

#10-9 X 1" PANCAKE HEAD WOOD SCREW, INSTALL MIN. 4 PER ZEE OR 3" ON CENTER

CONTINUOUS BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

ZE17 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL150 PANEL

SINGLE LAYER OF UNION CORRUGATING REPEL® OR APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

MASSONRY THRU-WALL FLASHING WITH WEEP HOLES

MASSONRY ANCHOR @ 18" O.C.

THERMAL EXPANSION

RIGID INSULATION OVER METAL DECK

HIGHWALL DETAIL - REGLET

Description:

RIGID INSULATION OVER METAL DECK

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
SM55 - SURFACE MOUNTED COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

HW02 - HIGHWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

#10-9 X 1" PANCAKE HEAD WOOD SCREW, INSTALL MIN. 4 PER ZEE OR 3" ON CENTER

CONTINUOUS BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

ZE16 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE W/ (2) #14-1.3 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

CONTINUOUS BEAD OF APPROVED SEALANT

MASONRY ANCHOR AT 18" O.C.

THERMAL EXPANSION

HIGHLAND DETAIL - SURFACE MOUNT

RIGID INSULATION OVER METAL DECK

SL150-MD-6.12
**Highwall Detail - Wall Panel with Sill**

- **HW01**: Highwall Counter Flashing, 4" end laps with continuous approved sealant at laps.
- **ZE16**: Zee Closure, field cut to fit between panel ribs.
- **SL150 Clip and Bearing Plate w/ (2) #14-13 x (req. length) Pancake Head Screws**
- **#10-9 x 1" Pancake Head Wood Screw, Install Min. 4 per Zee or 3" on Center**
- **3/16" x 7/8" bead Butyl Tape Sealant Continuous Under Zee Closure**
- **1/8" x 1/4" Stainless Steel Rivet (Painted) at 18" on Center**
- **Rigid Insulation Over Metal Deck**

**Union Corrugating Co.**

**SL150-MD-6.14**

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
MEMBRANE ROOFING SYSTEM. EXTEND OVER PARAPET AND DOWN FACE OF WALL MINIMUM 3".

COPING SYSTEM WITH CONTINUOUS CLEAT (MIN. 24 GAUGE) FASTENED AT 8" ON CENTER AT CLEAT AND 24" ON CENTER AT REAR. INSTALL WITH 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS.

**HW02** - HIGHWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

#10-9 X 1" PANCAKE HEAD WOOD SCREW, INSTALL MIN. 4 PER ZEE OR 3" ON CENTER

CONTINUOUS BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

**ZE16** - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL150 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK
FILL END OF PANEL RIB W/ APPROVED SEALANT FOLD TAB AROUND RIB FOR CLOSURE

**LW01** - LOW WALL FLASHING, 12" END LAPS WITH 2 ROWS OF APPROVED SEALANT AT LAPS

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND OFFSET. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

#14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW AT 8" O.C.

**OC01** - CONTINUOUS 24 GAUGE OFFSET CLEAT SET IN CONTINUOUS 3/16" X 7/8" BUTYL TAPE SEALANT

STRIP IN LOW WALL FLASHING WITH FIELD COURSE OF APPROVED UNDERLAYMENT

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE WITH (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

IMPORTANT INSTALLATION NOTE
LOW WALL FLASHING MUST BE ANGLED TO PROVIDE POSITIVE DRAINAGE OR NOT MORE THAN 36" WIDE WHEN INSTALLED PERPENDICULAR TO SLOPE (SEE 'A').
NOTCH OUT HEM IN FLASHING TO BE LAPPED

DOUBLE ROW OF APPROVED TUBE SEALANT

OVERLAP

POP RIVETS AT LAP

4"
SIDEWALL DETAIL - REGLET

MASSONRY THRU-WALL FLASHING WITH WEEP HOLES

CONTINUOUS BEAD OF APPROVED SEALANT IN REGLET CUT

REGLET FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

SIDEWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

MASONRY ANCHOR AT 18" O.C.

CONTINUOUS ROW OF APPROVED SEALANT BOTH SIDES OF PANEL LEG BETWEEN PANEL LEG AND FLASHINGS

LAPS

PANEL LEG OR FIELD FORM PANEL LEG (MIN. 1-1/4")

CONTINUOUS SUB-FLASHING ANGLE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

STRIP IN J-CHANNEL SUB-FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK
CONTINUOUS BEAD OF APPROVED SEALANT

MASTERY ANCHOR AT 18" ON CENTER

**SM55** - SURFACE MOUNTED COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

**FA10** - SIDEWALL COUNTER FLASHING 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CONTINUOUS ROW OF APPROVED SEALANT BOTH SIDES OF PANEL LEG BETWEEN PANEL LEG AND FLASHINGS

PANEL LEG OR FIELD FORM PANEL LEG (MIN. 1-1/4")

**SA01** - CONTINUOUS SUB-FLASHING ANGLE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

STRIP IN SUB-FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

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**Description:**

SIDEWALL DETAIL - SURFACE MOUNT

**Substrate:**

RIGID INSULATION OVER METAL DECK

**Detail No.:**

SL150-MD-7.12

**Project Name:**

**Location:**
FA10 - SIDEWALL COUNTER FLASHING 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CONTINUOUS ROW OF APPROVED SEALANT BOTH SIDES OF PANEL LEG BETWEEN PANEL LEG AND FLASHINGS

PANEL LEG OR FIELD FORM PANEL LEG (MIN. 1-1/4")

SA01 - CONTINUOUS SUB-FLASHING ANGLE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

STRIP IN SUB-FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

LAP SIDING
MASONRY THRU-WALL FLASHING WITH WEEP HOLES

CONTINUOUS BEAD OF APPROVED SEALANT IN REGLET CUT

RF40 - REGLET FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

MASONRY ANCHOR AT 18" O.C.

SW11 - SIDEWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CONTINUOUS ROW OF APPROVED SEALANT BETWEEN PANEL LEG AND J-CHANNEL SUB-FLASHING

CONTINUOUS BEAD OF APPROVED SEALANT BETWEEN COUNTER FLASHING AND J-CHANNEL SUB-FLASHING

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

PANEL LEG OR FIELD FORM LEG (MIN. 1-1/4")

SJ17 - J-CHANNEL SUB-FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

STRIP IN J-CHANNEL SUB-FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.

Description:

SIDEWALL DETAIL - REGLET

RIGID INSULATION OVER METAL DECK

Project Name:

Location:

Detail No.:

SL150-MD-7.21
**SM55** - SURFACE MOUNTED COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

**SW11** - SIDEWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

**CONTINUOUS ROW OF APPROVED SEALANT BETWEEN PANEL LEG AND J-CHANNEL SUB-FLASHING**

**CONTINUOUS BEAD OF APPROVED SEALANT BETWEEN COUNTER FLASHING AND J-CHANNEL SUB-FLASHING**

**1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER**

**PANEL LEG OR FIELD FORM LEG (MIN. 1-1/4")**

**SJ17** - J-CHANNEL SUB-FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

**STRIP IN J-CHANNEL SUB-FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT**

**UNION CORRUGATING CO. SL150 PANEL**

**SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS**

**SINGLE LAYER OF APPROVED UNDERLAYMENT**

**RIGID INSULATION OVER METAL DECK**

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**Description:**
SIDEWALL DETAIL - SURFACE MOUNT

**Substrate:**
RIGID INSULATION OVER METAL DECK

**Detail No.:**
SL150-MD-7.22

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Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
**SW11** - SIDEWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CONTINUOUS ROW OF APPROVED SEALANT BETWEEN PANEL LEG AND J-CHANNEL SUB-FLASHING

CONTINUOUS BEAD OF APPROVED SEALANT BETWEEN COUNTER FLASHING AND J-CHANNEL SUB-FLASHING

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

PANEL LEG OR FIELD FORM LEG (MIN. 1-1/4")

**SJ17** - J-CHANNEL SUBFLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

STRIP IN J-CHANNEL SUB-FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT

UNION CORRUGATING CO. SL150 PANEL

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK
SIDEWALL W/ ZEE DETAIL - REGLET

RIGID INSULATION OVER METAL DECK

MASONRY THRU-WALL FLASHING WITH WEEP HOLES
CONTINUOUS BEAD OF APPROVED SEALANT IN REGLET CUT
MASONRY ANCHOR AT 18" O.C.

RF40 - REGLET FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS
SW02 - SIDEWALL FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

PANEL LEG OR FIELD FORM PANEL LEG (MIN. 1-1/4"
1/8" X 1/4" STAINLESS STEEL RIVET @ 18" O.C.
ZE16 - ZEE CLOSURE FASTENED WITH #10-9 X 1 PANCAKE HEAD SCREW
CONTINUOUS ROW OF BUTYL TAPE
UNION CORRUGATING CO. SL150 PANEL
SINGLE LAYER OF APPROVED UNDERLAYMENT

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS
RIGID INSULATION OVER METAL DECK

IMPORTANT INSTALLATION NOTE
- CONSULT UNION CORRUGATING CO. WARRANTY DEPARTMENT BEFORE USING THIS DETAIL WHEN INSTALLATION REQUIRES WEATHERTIGHTNESS WARRANTY.
- THIS DETAIL NOT TO BE USED WITH PANEL LENGTHS GREATER THAN 30'-0".

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.

Description: SIDEWALL W/ ZEE DETAIL - REGLET
Substrate: RIGID INSULATION OVER METAL DECK
Project Name: Location:
Detail No.: SL150-MD-7.31
IMPORTANT INSTALLATION NOTE

- CONSULT UNION CORRUGATING CO. WARRANTY DEPARTMENT BEFORE USING THIS DETAIL WHEN INSTALLATION REQUIRES WEATHERTIGHTNESS WARRANTY.
- THIS DETAIL NOT TO BE USED WITH PANEL LENGTHS GREATER THAN 30'-0".
IMPORTANT INSTALLATION NOTE

- CONSULT UNION CORRUGATING CO.
  WARRANTY DEPARTMENT BEFORE
  USING THIS DETAIL WHEN
  INSTALLATION REQUIRES
  WEATHERTIGHTNESS WARRANTY.

- THIS DETAIL NOT TO BE USED WITH
  PANEL LENGTHS GREATER THAN 30'-0".

**SW02** - SIDEWALL FLASHING, 4" END LAPS WITH
CONTINUOUS APPROVED SEALANT AT LAPS

**ZE16** - ZEE CLOSURE FASTENED WITH #10-9 X 1"
PANCAKE HEAD SCREW

CONTINUOUS ROW OF BUTYL TAPE

UNION CORRUGATING CO. SL150 PANEL

SINGLE LAYER OF APPROVED
UNDERLAYMENT

SL150 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ.
LENGTH) PANCAKE HEAD SCREWS

RIGID INSULATION OVER METAL DECK

**SIDEWALL W/ ZEE - WOOD FRAMING & SIDING**

**RIGID INSULATION OVER METAL DECK**
**EJ21** - EXPANSION JOINT FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

**SJ17** - J-CHANNEL SUB-FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

- PANEL LEG OR FIELD FORM LEG (MIN. 1-1/4"
- 1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

- STRIP IN J-CHANNEL SUB-FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT

- UNION CORRUGATING CO. SL150 PANEL

- CONTINUOUS ROW OF APPROVED SEALANT BETWEEN PANEL LEG AND J-CHANNEL SUB-FLASHING

- SINGLE LAYER OF APPROVED UNDERLAYMENT

- #10-9 X 1" PANCake HEAD WOOD SCREW AT 20" O.C.

- RIGID INSULATION OVER METAL DECK

**EXPANSION JOINT (MID-ROOF)**

**SL150-MD-7.50**

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
DOUBLE ROW OF APPROVED TUBE SEALANT

NOTCH OUT HEM IN FLASHING TO BE LAPPED

OVERLAP

POP RIVET AT LAP

4"
**OC01** - CONTINUOUS 24 GAUGE OFFSET CLEAT SET IN CONTINUOUS 3/16" X 7/8" BUTYL TAPE SEALANT

**ST01** - SLOPE TRANSITION FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

3/16" X 7/8" BEAD BUTYL TAPE SEALANT CONTINUOUS UNDER ZEE CLOSURE

**ZE16** - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS W/ CONT. BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS

1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND OFFSET. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP
RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL150 PANEL

#14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW AT 12” O.C.

STRIP IN TRANSITION FLASHING WITH FIELD COURSE OF APPROVED UNDERLAYMENT

FILL END OF PANEL RIB W/ APPROVED SEALANT FOLD TAB AROUND RIB FOR CLOSURE

CUT BACK VERTICAL PANEL LEGS AND FIELD FORM PANEL AROUND OFFSET. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

CONTINUOUS BEAD OF APPROVED SEALANT BETWEEN MEMBRANE ROOFING AND TRANSITION FLASHING

TF01 - TRANSITION FLASHING, 12” END LAPS WITH 2 ROWS OF APPROVED SEALANT AT LAPS

MEMBRANE ROOFING, EXTEND UNDER ROOF PANELS MIN. 24” OR UNTIL MEMBRANE HAS REACHED A 12” VERTICAL RISE OVER ENDS OF ROOF PANELS

8” MIN.
**STEP 1:** FIELD NOTCH RIBS AND REMOVE

**MIN. 1”**

(REF. THERMAL GAP CHART)

**STEP 2:** ENGAGE PANEL HEMMING TOOL OVER FLAT PART OF PANEL TO ACCEPT OFFSET CLEAT

**STEP 3:** BEND TO FORM OPEN HEM

SEE DETAIL A-A

DETAIL A-A

FIELD HEMMING PANEL END

SL150-10.10

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.

Project Name:
Location:

2016-0301
**FLATTEN OFFSET IN MALE LEG**

**DETAIl Ai**

**APPROVED TUBE SEALANT AT VERTICAL PANEL LEGS, AlIGNED WITH TAPE SEALANT**

**FIELD FLATTEN OFFSET IN MALE LEG**

**1 ROW OF APPROVED TUBE SEALANT**

**INSTALL OFFSET CLEAT OVER 1 ROW OF 1/4" DOUBLE BEAD TAPE SEALANT**

**PANEL INSTALLATION DIRECTION**

**DETAIl A2**

**STAGGER LAPS MIN. 24"**

**LOWER PANEL**

**UPPER PANEL**

**12" MIN. LAP**

**UPPER PANEL**

**UPPER PANEL**

**LOWER PANEL**

**12" LAP**

**SECTION B:B**

**REMOVE LOWER HOOK OF FEMALE LEG TO ALLOW OVERLAPPING CONDITION**
FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL RIBS
INSTALL 7/8" DOUBLE BEAD BUTYL TAPE SEALANT TO UNDERSIDE OF ZEE CLOSURE
CONT. BEAD OF APPROVED SEALANT ADJACENT TO PANEL RIBS
4 SCREWS PER ZEE MIN. OR 3" O.C.
CONTINUOUS BEAD OF APPROVED SEALANT AROUND TOP OF BOOT

S.S. PIPE CLAMP

PIPE BOOT

12-14 X 1" S.D. W/ WASHER, 1" O.C.

MINIMUM CLEARANCE BETWEEN FLANGE OF BOOT FLASHING AND PANEL RIBS

CONTINUOUS APPROVED TUBE SEALANT AROUND BASE OF PIPE AND SUBSTRATE OPENING

LEAVE MIN. 1/2" CLEARANCE AROUND PENETRATION

SET SECUREMENT RING IN CONTINUOUS BEAD OF APPROVED TUBE SEALANT

UNION REPEL® SYNTHETIC UNDERLAYMENT OR APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

IMPORTANT INSTALLATION NOTE
WHEN BOOT SIZE EXCEEDS MINIMUM CLEARANCE OF 1", REFER TO CURB DETAILS.
IMPORTANT INSTALLATION NOTE
*WHEN BASE OF ZEE FRAME EXCEEDS MIN. CLEARANCE OF 3" REFER TO CURB DETAILS.

PIPE PENETRATION THROUGH PANEL RIB

- LEAVE 1/2" CLEARANCE AROUND PENETRATION TO ALLOW FOR EXPANSION
- ZEE CLOSURE, SET IN CONTINUOUS BEAD OF APPROVED TUBE SEALANT
- 1/8" x 1/4" STAINLESS RIVET, 2" O.C. MAX.
- APPLY CONTINUOUS BEAD OF APPROVED TUBE SEALANT AROUND PERIMETER OF ZEE CLOSURE.
- CONTINUOUS BEAD OF APPROVED SEALANT AROUND TOP OF BOOT
- S.S. PIPE CLAMP
- EPDM PIPE BOOT
- 12-14 x 1" S.D. W/WASHER, 1" O.C.
- INSTALL TRIM CAP, HEMMING EDGES OVER ZEE CLOSURE
- SECURE TRIM CAP WITH 1/8" x 1/4" STAINLESS RIVETS, 8" O.C.
- CONTINUOUS APPROVED TUBE SEALANT AROUND BASE OF PIPE AND TRIM CAP
- SET SECUREMENT RING IN CONTINUOUS BEAD OF APPROVED SEALANT
- LINE OF ZEE CLOSURE BELOW
LOW WALL & HIGHWALL @ SQUARE PENETRATION

RIGID INSULATION OVER METAL DECK

Description:

Union Corrugating Company

Project Name:

Location:

UNION CORRUGATING CO. SL150 PANEL

STRIP IN LOW WALL FLASHING WITH FIELD COURSES OF APPROVED UNDERLAYMENT

OC01 - 24 GA. CONTINUOUS OFFSET CLEAT

LW01 - CONTINUOUS LOW WALL FLASHING

CURB FRAMING SUPPLIED BY OTHER

HW01 - HIGHWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

CONTINUOUS BEAD OF APPROVED SEALANT AT PANEL LEG AND ZEE-CLOSURE

ZE16 - ZEE CLOSURE FASTENED WITH #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW ON CONT. ROW OF BUTYL TAPE

SINGLE LAYER OF APPROVED MEMBRANE UNDERLAYMENT

EXPANSION DIRECTION

POINT OF EXIT

8" MIN.
SW02 - SIDEWALL COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

PANEL LEG OR FIELD FORM PANEL LEG (MIN. 1-1/4"

ZE16 - ZEE CLOSURE FASTENED WITH #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREW

CONTINUOUS ROW OF BUTYL TAPE

UNION CORRUGATING CO. PANEL

1/8" X 1/4" STAINLESS STEEL RIVET

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK
STEP 1
INSTALL PANELS AROUND CURB.

FIELD FLATTEN OFFSET IN MALE LEG
SEE DETAIL A2

12" MIN.
SEE DETAIL A1

FIELD FORM LEGS AGAINST CURB SIDES MIN. 1" HIGH

DETAIL A1
2" NOM.
REMOVE TOP OF FEMALE LEG

MALE LEG SHOWN CUT BACK FOR CLARITY ONLY
REMOVE LOWER HOOK OF FEMALE LEG TO ALLOW OVERLAPPING PANEL CONDITION

DETAIL A2
FLATTEN OFFSET IN MALE LEG

SL150 CURB DETAILS - STEP 1

GENERAL INFORMATION

Description:
Substrate:

Detail No.: SL150-CRB: 1 of 6

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
2016-3108
STEP 2
APPLY ZEE CLOSURE
FLASHING OVER
DOUBLE BEAD MASTIC

INSTALL ZEE CLOSURE
W/ SCREWS AT 4" O.C.

INSTALL BUTYL TAPE
EACH SIDE FOR SEAL
BETWEEN ZEE CLOSURE AND PANEL

PANEL INSTALLATION DIRECTION

SL150 CURB DETAILS - STEP 2

Description:
Substrate:

GENERAL INFORMATION
Project Name:
Location:

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
STEP 3
INSTALL SIDEWALL
AND HIGH WALL FLASHINGS
ATOP ZEE CLOSURE.

SIDE WALL FLASHING
HOOK HEM ONTO
ZEE CLOSURE

FIELD FORM TABS
TO RETURN AROUND
HIGH END OF CURB

FIELD FORM TABS
TO RETURN AROUND
SIDES OF CURB

SIDE WALL FLASHING
HOOK HEM ONTO
ZEE CLOSURE

HIGHWALL FLASHING,
HOOK HEM ONTO ZEE
CLOSURE

Panel Installation Direction
STEP 4
INSTALL LOW WALL FLASHING

FIELD FORM TABS

FIELD FORM LEG
1 1/2" MIN. HEIGHT

LOW WALL FLASHING

FIELD FORM LEG
1 1/2" MIN. HEIGHT

REMOVE EXCESS PANEL MATERIAL EACH SIDE AFTER FIELD TRACING PROFILE

SET FLASHING AND FIELD TRACE AGAINST CURB TO DETERMINE TRIM PROFILE PRIOR TO CUT

INSTALL (2) LAYERS OF MASTIC TAPE SEALANT UNDER PERIMETER OF LOW WALL FLASHING

FASTENER AS REQUIRED BY CONDITION

APPLY SEALANT AT TRIM LAPS TYPICAL

SL150 CURB DETAILS - STEP 4

GENERAL INFORMATION
STEP 5
INSTALL CLEAT AND PREPARE FOR UPPER PANEL INSTALLATION.

INSTALL FIELD HEMMED UPPER PANELS OVER LOW WALL FLASHING ONTO CLEAT

PANCAKE HEAD FASTENER AT OVERLAP LOCATION

6" MIN. LAP

CONTINUOUS CLEAT SET IN SEALANT FASTEN AT 4" O.C.

SEALANT AT ZEE & LOW WALL INTERSECTION BOTH SIDES OF CURB

Panel of installation direction
STEP 6
INSTALL FINAL SEAL AND FASTEN AS REQUIRED.

INSTALL FINAL UPPER PANEL OVER LOW WALL FLASHING ONTO CLEAT

DETAIL 10.41

DETAIL 10.40

PANEL INSTALLATION DIRECTION

SLI50 CURB DETAILS - STEP 6

GENERAL INFORMATION

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.