SL175 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.
# 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>
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## Eave Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
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<tbody>
<tr>
<td>Extended Eave</td>
<td>1.10</td>
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<tr>
<td>Extended Eave - Steep Slope</td>
<td>1.10A</td>
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<tr>
<td>Extended Eave with Gutter</td>
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<tr>
<td>Extended Eave with Gutter - Steep Slope</td>
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<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>
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<tr>
<td>Extended Eave Lap Detail</td>
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## Gable Details

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<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Gable - Extended Drip</td>
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<tr>
<td>Gable - Box</td>
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<tr>
<td>Gable - Box with Zee Closure</td>
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<tr>
<td>Box Gable Lap Detail</td>
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## Valley Details

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>Valley - Integral Cleat</td>
<td>3.10</td>
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<tr>
<td>Valley - Offset Cleat</td>
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<tr>
<td>Valley Lap Detail</td>
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## Ridge & Hip Details

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>Standard Ridge &amp; Hip</td>
<td>4.10</td>
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<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

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
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<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>
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<tr>
<td>High Wall Lap Detail</td>
<td>6.90</td>
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### Sidewall Details

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail No.</th>
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<tr>
<td>Sidewall - Reglet with Subflashing Angle</td>
<td>7.11</td>
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<tr>
<td>Sidewall - Surface Mount with Subflashing Angle</td>
<td>7.12</td>
</tr>
<tr>
<td>Sidewall - Wood Framing &amp; Siding with Subflashing Angle</td>
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<tr>
<td>Sidewall - Reglet with J-Channel Subflashing</td>
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<td>Sidewall - Surface Mount with J-Channel Subflashing</td>
<td>7.22</td>
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<tr>
<td>Sidewall - Wood Framing &amp; Siding with J-Channel Subflashing</td>
<td>7.23</td>
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<tr>
<td>Sidewall - Reglet with Zee Closure</td>
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<tr>
<td>Sidewall - Surface Mount with Zee Closure</td>
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<tr>
<td>Sidewall - Wood Framing &amp; Siding with Zee Closure</td>
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<tr>
<td>Sidewall Expansion Joint</td>
<td>7.40</td>
</tr>
<tr>
<td>Expansion Joint Mid-Roof</td>
<td>7.50</td>
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<tr>
<td>Sidewall Lap Detail</td>
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### Slope Transition Details

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

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

Profile Option: Smooth

Profile Option: Pencil Ribs (2)

Profile Option: Bead Ribs (2)
IMPORTANT INSTALLATION NOTE

- SL175 CLIPS ALLOW FOR UNLIMITED THERMAL EXPANSION/CONTRACTION OF PANELS.
- "UL" CLIP TYPES MAY BE REQUIRED TO MEET SPECIFIC WIND UPLIFT TESTING.

Clip 20
18 Ga. Galvanized
1.875" x 2.25"

Clip 21 UL
18 Ga. Galvanized
1.875" x 3.5"

Clip 22
18 Ga. Stainless Steel
1.875" x 2.25"
Recommended for use with aluminum panels

Clip 23 UL
18 Ga. Stainless Steel
1.875" 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
### 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 &gt;100°F</td>
</tr>
<tr>
<td>10</td>
<td>0.145 1/8</td>
</tr>
<tr>
<td>20</td>
<td>0.289 5/16</td>
</tr>
<tr>
<td>30</td>
<td>0.434 7/16</td>
</tr>
<tr>
<td>40</td>
<td>0.579 9/16</td>
</tr>
<tr>
<td>50</td>
<td>0.724 3/4</td>
</tr>
<tr>
<td>60</td>
<td>0.868 7/8</td>
</tr>
<tr>
<td>70</td>
<td>1.013 1</td>
</tr>
<tr>
<td>80</td>
<td>1.158 1 3/16</td>
</tr>
<tr>
<td>90</td>
<td>1.302 1 5/16</td>
</tr>
<tr>
<td>100</td>
<td>1.447 1 7/16</td>
</tr>
</tbody>
</table>

* Chart based on temperature differential of: 180 degrees F

* Coefficient of thermal expansion for steel: 0.0000087
### 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></td>
<td>Hot (&gt;100°F)</td>
</tr>
<tr>
<td>1C</td>
<td>0.279</td>
</tr>
<tr>
<td>2C</td>
<td>0.557</td>
</tr>
<tr>
<td>3C</td>
<td>0.836</td>
</tr>
<tr>
<td>4C</td>
<td>1.115</td>
</tr>
<tr>
<td>5C</td>
<td>1.393</td>
</tr>
<tr>
<td>6C</td>
<td>1.672</td>
</tr>
<tr>
<td>7C</td>
<td>1.950</td>
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<tr>
<td>8C</td>
<td>2.229</td>
</tr>
<tr>
<td>9C</td>
<td>2.508</td>
</tr>
<tr>
<td>100</td>
<td>2.786</td>
</tr>
</tbody>
</table>

* Chart based on temperature differential of: 180 degrees F
* Coefficient of thermal expansion for alum.: 0.0000129

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**Description:**

THERMAL GAP INSTALLATION CHART - ALUMINUM

**Substrate:**

**Detail No.:** SL175-0.31

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
SL175 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

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

EXTENDED EAVE

RIGID INSULATION OVER METAL DECK
EXTENDED EAVE - STEEP SLOPE

RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL175 PANEL

SL175 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

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

RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL175 PANEL

SL175 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.

FASCG - 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.

SL175-MD-1.20

Project Name: Location:

2016-0301
EXTENDED EAVE W/ GUTTER- STEEP SLOPE

RIGID INSULATION OVER METAL DECK

SL175 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 UNDERLAMENT

STRIP IN DRIPE EDGE WITH FIELD COURSE OF APPROVED UNDERLAMENT

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

ES02 - EXTENDED EAVE STEEP SLOPE DRIPE 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 DRIPE EDGE. REFER TO EAVE EXPANSION DETAIL FOR PROPER EXPANSION/CONTRACTION GAP

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

UNION CORRUGATING CO. SL175 PANEL

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

2018-0301
SL175 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

FF03 - 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

#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

2

X

FL100 SOFFIT

JC10 - J-CHANNEL

EXTENDED EAVE WITH SOFFIT

RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL175 PANEL

FL03000 - FASCIA RETURN WITH SEALANT AT LAPS

Project Name:

Location:

Detail No: SL175-MD-1.30
EXTENDED EAVE WITH SOFFIT & GUTTER

RIGID INSULATION OVER METAL DECK

Description:

Substrate:

Detail No.: SL175-MD-1.40

Project Name:
Location:

UNION CORRUGATING CO. SL175 PANEL

SL175 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

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

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

FC08 - FASCIA CLEAT WITH SOFFIT RETURN

JC10 - J-CHANNEL

FL100 SOFFIT

18 GA. GALVANIZED STEEL HIDDEN HANGER AT 24" ON CENTER
SL175 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 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
EXT. EAVE W/ VERTICAL STANDING SEAM PANELS

SL175 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

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

*TYPICAL J-CHANNEL TRIM

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

UNION CORRUGATING CO. SL175 PANEL

SL175 CLIP WITH (2) #10-9 X 1" PANCAKE HEAD WOOD SCREWS

SL12 - STIL TRIM FASTENED W/ #10-9 X 1" PANCAKE HEAD WOOD SCREW

UNION CORRUGATING CO. SL175 PANEL

SINGLE LAYER OF APPROVED UNDERLAMENT

STRIP IN DRIP EDGE WITH FIELD COURSE OF APPROVED UNDERLAMENT

#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
NOTCH OUT UPPER AND LOWER BENDS IN FLASHING TO BE LAPPED

DOUBLE ROW OF APPROVED TUBE SEALANT

OVERLAP

4"
UNION CORRUGATING CO. SL175 PANEL

SL175 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, 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.

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

GABLE DETAIL - EXTENDED DRIP STYLE

RIGID INSULATION OVER METAL DECK

Detail No.: SL175-MD-2.10
**Description:**

**GABLE DETAIL - BOX STYLE W/ Z-CLOSURE**

**Substrate:**

RIGID INSULATION OVER METAL DECK

**Detail No.:**

SL175-MD-2.30

**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.

2016-0301

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**SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS**

**SINGLE LAYER OF APPROVED UNDERLAYMENT**

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

**ZE18 - ZEE CLOSURE, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS**

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

**CONTINUOUS ROW OF DOUBLE BEAD BUTYL TAPE SEALANT**

**BG02 - BOX GABLE TRIM, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS**

**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.**

**FA0# - FASCIA COVER, 2" END LAPS W/ CONTINUOUS APPROVED SEALANT AT LAPS**

---
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. SL175 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

RIGID INSULATION OVER METAL DECK

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
UNION CORRUGATING CO. SL175 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

SINGLE LAYER OF APPROVED UNDERLAYMENT

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

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

DOUBLE ROW OF APPROVED TUBE SEALANT
FASTEN VALLEY AT TOP END UNDER LAP

TELESCOPING VALLEY FLASHING LAP

12" LAP

*SEE NOTE
RC05 - RIDGE CAP, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

RIGID INSULATION OVER METAL DECK

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

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCake HEAD SCREWS

#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

ZE18 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

UNION CORRUGATING CO. SL175 PANEL

THERMAL EXPANSION
RIDGE CAP 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

RIDGE CAP

ZEE CLOSURE

SECTION A-A

SEE RIDGE DETAIL

HEM PANEL ENDS AROUND VALLEY OFFSET HEM

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

CONTINUOUS BEAD OF SEALANT UNDER ZEE CLOSURE

UNION CORRUGATING CO. PANEL, HEMMED AROUND VALLEY OFFSET

SECTION A-A
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

SL175-4.90
**STEP 1**

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

**STEP 2**

- Field form cover plate hem around lapped ridge caps.
- 8" cover plate.
- 4" lap.
- 2".

**STEP 3**

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

**IMPORTANT INSTALLATION NOTE**

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

ZE18 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS
1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL175 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

THERMAL EXPANSION

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
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
ZE18 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS
1/8" X 1/4" STAINLESS STEEL RIVET (PAINTED) AT 18" ON CENTER
SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS
UNION CORRUGATING CO. SL175 PANEL
SINGLE LAYER OF APPROVED UNDERLAYMENT
RIGID INSULATION OVER METAL DECK

THERMAL EXPANSION

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

PEAK DETAIL - WITH WALL PANELS

SL175-MD-5.40
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

ZE18 - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL175 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

MASONRY THRU-WALL FLASHING WITH WEEP HOLES

CONTINUOUS BEAD OF APPROVED SEALANT IN REGLET CUT

MASONRY ANCHOR @ 18" O.C.
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

ZE18 - 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. SL175 PANEL

SL175 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" O.C.

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

**HW01** - 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

**ZE18** - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

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

**SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS**

**UNION CORRUGATING CO. SL175 PANEL**

**RIGID INSULATION OVER METAL DECK**

**THERMAL EXPANSION**

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**Description:** HIGHWALL DETAIL - WALL PANEL W/ SILL

**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.
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

**ZE18** - ZEE CLOSURE, FIELD CUT TO FIT BETWEEN PANEL RIBS

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

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

UNION CORRUGATING CO. SL175 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

THERMAL EXPANSION

**HIGHWALL DETAIL - PARAPET COPING**

RIGID INSULATION OVER METAL DECK

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

Project Name:  
Location:  

Detail No.: SL175-MD-6.20

2016-0301
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

**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

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

UNION CORRUGATING CO. SL175 PANEL

SL175 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’).
Detail No.: SL175-6.90

OVERLAP

NOTCH OUT HEM IN FLASHING TO BE LAPPED

DOUBLE ROW OF APPROVED TUBE SEALANT

POP RIVETS AT LAP

4”
SIDEWALL DETAIL - REGLET

Description:

RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL175 PANEL

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

SA01 - 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. SL175 PANEL

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

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

CONTINUOUS BEAD OF APPROVED SEALANT IN REGLET CUT

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

MASONRY ANCHOR AT 18" O.C.

MASONRY THRU-WALL FLASHING WITH WEEP HOLES

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

MASONRY ANCHOR AT 18" O.C.

MASONRY THRU-WALL FLASHING WITH WEEP HOLES
CONTINUOUS BEAD OF APPROVED SEALANT
MASONRY 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. SL175 PANEL

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

Description: RIGID INSULATION OVER METAL DECK

Detail No.: SL175-MD-7.12

Project Name:
Location:

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
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. SL175 PANEL
SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ.
LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED
UNDERLAYMENT

RIGID INSULATION OVER METAL DECK
RF40 - REGLET FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

SW12 - 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

PJ20 - 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. SL175 PANEL

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

MASONRY THRU-WALL FLASHING WITH WEEP HOLES

MASONRY ANCHOR AT 18" O.C.
SM55 - SURFACE MOUNTED COUNTER FLASHING, 4" END LAPS WITH CONTINUOUS APPROVED SEALANT AT LAPS

SW12 - 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")

SJ20 - 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. SL175 PANEL

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCake HEAD SCREWS

SINGLE LAYER OF APPROVED UNDERLAYMENT

RIGID INSULATION OVER METAL DECK

Description:
SIDEWALL DETAIL - SURFACE MOUNT
RIGID INSULATION OVER METAL DECK

Detail No.: SL175-MD-7.22
**SW12** - 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")

**SJ20** - 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. SL175 PANEL

SL175 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 - WOOD FRAMING & SIDING

RIGID INSULATION OVER METAL DECK

**Detail No.:**

SL175-MD-7.23

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Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
**SIDEWALL W/ ZEE DETAIL - REGLET**

**Description:**
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".

**Detail No.:**
SL175-MD-7.31

**Dimensions:**
6' MIN.
CONTINUOUS BEAD OF APPROVED SEALANT
MASONRY ANCHOR AT 18" ON CENTER

**SM55** - SURFACE MOUNTED COUNTER 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.

**ZE18** - ZEE CLOSURE FASTENED WITH #10-9 X 1 PANCAKE HEAD SCREW

CONTINUOUS ROW OF BUTYL TAPE

UNION CORRUGATING CO. SL175 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

SL175 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".
**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.

**ZE18** - ZEE CLOSURE FASTENED WITH #10-9 X 1" PANCAKE HEAD SCREW

CONTINUOUS ROW OF BUTYL TAPE

UNION CORRUGATING CO. SL175 PANEL

SINGLE LAYER OF APPROVED UNDERLAYMENT

SL175 CLIP AND BEARING PLATE W/ (2) #14-13 X (REQ. LENGTH) PANCAKE HEAD SCREWS

RIGID INSULATION OVER METAL DECK

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**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".
**EJ21** - Expansion joint flashing, 4" end laps with continuous approved sealant at laps

**SJ20** - 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. SL175 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

**Description:**

**Rigid Insulation Over Metal Deck**

**Detail No.:** SL175-MD-7.50

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

2016-0301
**Description:**

**SLOPE TRANSITION DETAIL**

**RIGID INSULATION OVER METAL DECK**

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**Description:**

- **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.
- **ZE18** - 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.**

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**Union Corrugating Co. SL175 Panel**

**Strip in slope transition flashing with field course of approved underlayment.**

**#14-13 x (req. length) pancake head screw, install min. per zee or 3" on center.**

**Fill end of panel rib w/ approved sealant fold tab around rib for closure.**

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**Notes:**

Details and instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
RIGID INSULATION OVER METAL DECK

UNION CORRUGATING CO. SL175 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

**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
4 SCREWS PER ZEE MIN. OR 3" O.C.

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
IMPORTANT INSTALLATION NOTE
WHEN BOOT SIZE EXCEEDS MINIMUM CLEARANCE OF 1", REFER TO CURB DETAILS.

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

1" MIN.

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
PANEL CLIP AND BEARING PLATE W/ (2) #10 X (REQ. LENGTH) PANCAKE FASTENERS PER CLIP
UNION REPEL® SYNTHETIC UNDERLAYMENT OR APPROVED UNDERLAYMENT
RIGID INSULATION OVER METAL DECK

PIPE PENETRATION
RIGID INSULATION OVER METAL DECK

Description:
Detail No.: SL175-MD-10.30
Substrate:
Project Name: Location:

Details and Instructions subject to change without notice. Contact Union Corrugating Company for specific project details.
IMPORTANT INSTALLATION NOTE
*WHEN BASE OF ZEE FRAME EXCEEDS MIN. CLEARANCE OF 3" REFER TO CURB DETAILS.

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, 6" O.C.
CONTINUOUS APPROVED TUBE SEALANT AROUND BASE OF PIPE AND TRIM CAP
SET SECURITY RING IN CONTINUOUS BEAD OF APPROVED SEALANT
LINE OF ZEE CLOSURE BELOW

ZEE CLOSURE, SET IN CONTINUOUS BEAD OF APPROVED TUBE SEALANT
TRIM CAP
1/8" x 1/4" STAINLESS RIVET
SECURE ZEE CLOSURE WITH RIVET, 2" O.C. MAX.
CONT. BEAD OF APPROVED TUBE SEALANT AROUND PERIMETER OF ZEE CLOSURE

SECTION A

PIPE PENETRATION THROUGH PANEL RIB

Description:
Substrate:

Project Name:
Location:

Detail No.: SL175-10.31

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2015-0301
**SW02** - Sidewall Counter Flashing, 4" End Laps with Continuous Approved Sealant at Laps

**ZE18** - 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

**Description:** Sidewall @ Square Penetration

**Substrate:** Rigid Insulation Over Metal Deck

**Detail No.:** SL175-MD-10.41

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STEP 1
INSTALL PANELS AROUND CURB.

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

FIELD FORM LEGS AGAINST CURB SIDES MIN. 1" HIGH

SEE DETAIL A1
SEE DETAIL A2

REMOVE HOOK IN MALE LEG

PANEL INSTALLATION DIRECTION

12" MIN.
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
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

HIGHWALL FLASHING, HOOK HEM ONTO ZEE CLOSURE

Panel Orientation Direction

SL175 CURB DETAILS - STEP 3
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 MATERIAL EACH SIDE AFTER FIELD TRACING PROFILE

SET FLASHING AND FIELD TRACING 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

SL175 CURB DETAILS - STEP 4

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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

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

SEALANT AT ZEE & LOW WALL INTERSECTION BOTH SIDES OF CURB

SL175 CURB DETAILS - STEP 5

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INSTALL FINAL SEAL AND FASTEN AS REQUIRED.

INSTALL FINAL UPPER PANEL OVER LOW WALL FLASHING ONTO CLEAT

DETAIL 10.40

PANEL INSTALLATION DIRECTION

DETAIL 10.41