IMPORTANT NOTICE

This manual contains suggestions and guidelines on how to install the subject Union Corrugating panels and trim details. The contents of this manual include the guidelines that were in effect at the time this publication was originally printed. In an effort to keep pace with the ever-changing code environment, Union Corrugating retains the right to change specifications and / or designs at any time without incurring any obligations. To insure you have the latest information available, please inquire or visit our web site. Application and design details are for illustrative purposes only and may not be appropriate for all environmental conditions and/or building designs. Projects should be engineered and installed to conform to applicable building codes, regulations, and accepted industry practices.
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Introduction

The MasterRib® panel is an industry leader in strength and durability. This popular and versatile panel features classic looks and is used in a wide range of applications including residential, commercial, and post-frame buildings. MasterRib® was designed with extra-wide ribs to increase strength and ease handling and installation. In addition, the oversized anti-siphoning channel on the under-lap provides extra leak resistance in the presence of extreme wind and rain loads.

MasterRib® is available in 19 different paint colors and in both 26 and 29 gauge steel. It is also available in unpainted Galvalume® or unpainted galvanized. Our paint system and Galvalume® substrate are individually covered by a limited warranty. Please see our color chart for details on our paint system.

The MasterRib® panel is available in 36” coverage. The panel has five major support ribs at ¾” high that add rigidity and strength to the panel.

MasterRib® is Metal Construction Association certified. Below is a list of all of the MasterRib® panels approvals and certifications.

- Dade County NOA #07-0713.03 & ASCE 7-98 Compliant
- Florida Building Code Approval #FL4586.3, #FL6144.3, #FL9610.3
- Texas Department of Insurance Approval #116
- UL 790 Fire Resistance Class A
- UL 2218 Impact Resistance Class 4
- UL 580 Uplift UL Class 90 CONSTRUCTION #584

### Allowable Uniform Loads Per Square Foot

<table>
<thead>
<tr>
<th>SPAN (INCHES)</th>
<th>18”</th>
<th>24”</th>
<th>30”</th>
<th>36”</th>
<th>48”</th>
<th>54”</th>
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<tr>
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<td>199</td>
<td>112</td>
<td>71</td>
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<td>276</td>
<td>155</td>
<td>99</td>
<td>69</td>
<td>38</td>
<td>30</td>
</tr>
</tbody>
</table>

NOTES:
1. Theoretical allowable loads are based on section properties and allowables calculated in accordance with 2001 AISI Specifications.
2. Theoretical allowable loads are based on three or more uniform spans.
3. For roof panels, deduct self weight for actual ‘live load’ capacity of the panel.
4. These loads are for panel strength. Frames, purlins, decks and fasteners must be designed to resist all loads imposed on the panel.
5. Check local building codes if panel testing is required.
Storage
If metal is not to be used immediately, store inside in a well ventilated, dry location. Condensation or other moisture can form between the sheets during storage causing water stains or white rust which detract from the appearance of the product and may affect the product’s useful life. Trapped moisture between sheets of painted metal can cause white rust to form underneath the paint. This can cause the paint to flake off the panel immediately or several years later. To prevent white rust and staining, break the shipping bands on the material. Store the material on end or on an incline of at least 8” with a supporting board underneath to prevent sagging. Fan the sheets slightly at the bottom to allow for air circulation. Keep the sheets off of the ground with an insulator such as wood. Any outdoor storage is at the customer’s own risk. If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. Never cover the metal with plastic as this will cause condensation to form.

Some Safety Precautions
Always wear heavy gloves when working with steel panels to avoid cuts from sharp edges. When cutting or drilling steel panels, always wear safety glasses and sweep off any metal shavings immediately to prevent eye injury from flying metal fragments. If you must walk on a metal roof, take great care. Metal panels can become slippery, so always wear shoes with non-slip soles. Avoid working on metal roofs during wet conditions when the panels can become extremely slippery. Walking or standing on a metal roof which does not have a plywood or other deck beneath it is not recommended. However, if you must do so, always walk on the purlins, never between. Do not for any reason walk on a roof made of material thinner than 29 gauge.

General Installation Information
Ensure that the structure is square and true before beginning panel installation. If the structure is not square, the panels will not properly seal at the sidelaps. Start the first panel square to eave by using 3, 4, 5 Triangle Method. Green or damp lumber is not recommended. Moisture released from the damp lumber may damage the metal panels. Nails installed in green or damp lumber may back out. Remove any loose metal shavings left on the roof surface immediately to prevent corrosion. After installing roof, remove any debris such as leaves or dirt to prevent moisture from getting trapped on panels.

Fastening
If you wish to predrill fastener holes, use a cover sheet to prevent hot shavings from sticking to panels. Screws - For best results, use a 1-1/2” double washered wood screw in the flat of the panel as shown in the illustration below. Fasteners should be applied at every purlin. Drive the fastener so that the washer is compressed securely against the metal. Do not over drive the fastener as this will form a dimple that can collect water and cause leakage. Do not leave any loose fasteners that have missed the purlin. Use a #14 stitch screw or caulk to fill the hole.

Figure #1 - Fastening Patterns for MasterRib®

RECOMMENDED FASTENING PATTERN FOR 1 ½” SCREWS

SCREW FASTENERS – EAVE, RIDGE, & ENDLAPS

SCREW FASTENERS – INTERMEDIATE SUPPORTS

Figure #3

Oversized Antisiphoning Channel
Roofing
Slopes of less than 3" on 12" are not recommended. For slopes of 3" on 12" or greater, end lap panels 6'. Side laps should face away from the prevailing wind. Lay the first sheet along the eave at the downwind side of the roof, farthest away from the direction of the prevailing winds (See Figure #4). Install sheets in the sequence shown in Figure #4.

Allow an overhang a minimum of 1” at the eave to provide for a drip edge. Use inside closure at eave to prevent water infiltration, insect or bird infestation at openings. To protect against uplifting winds and to provide a finished appearance, apply rake trim or other standard gable trim. Apply fasteners every 6”-10”. 14” ridge roll or ridge cap is recommended. Apply the tape as shown in Figure #6 along the top of all lap ribs. Do not block the siphon channel with the tape. For best results, apply a 7/8” lap tek screw into the crown of the rib to secure the side lap.

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4. These loads are for panel strength. Frames, purlins, decks and fasteners must be designed to resist all loads imposed on the panel.
5. Check local building codes if panel testing is required.
Using two tape measures, locate point C by hooking one tap to a nail at point A and the second tape to a nail at point B. Extend the tapes until they cross and meet at 4’ on the first tape and 5’ on the second tape and place a temporary nail where 4’ and 5’ meet.

...the 4’ and 5’ measurements are the 4 and 5 sides of the 3...4...5... triangle.

Establish a line from point A to point B by temporarily marking each point with a nail. The line must be parallel to the eave and in this example 3’ long (this is the 3 side of the 3...4...5... Triangle).

Note: For larger 3...4...5...Triangles multiple each side of the triangle by the desired increase in size. For example, if the roof panels are 25’ from eave to ridge, multiply each side by a factor of 6 for an 18...24...30...Triangle. Obviously, the closer the triangle vertical leg length is to matching the panel length, the greater the squaring accuracy.

Hook a chalk line to point A and pull it in line with point C and mark a chalk line on the roof deck.

This will be the square reference line for the MasterRib® panel installation.
Mark chalk lines parallel with the square reference line out ahead of panel installation so that panel square can be checked as the panels are installed. Suggested line spacing is one foot beyond 3 panels wide or about 10 feet.

Check for square by measuring the distance from the installed panel edge to the chalk line at both the eave and ridge. If the measurements match, then the installed panels are square, if not, adjustments must be made to bring the panels back into square.
Installation Sequence

The following is an example of a typical sequence for the installation of MasterRib® panels and trims and is specific to the roof plan and conditions illustrated. The actual sequence may vary based on the specific roof plan and applicable trip conditions.

1. Moisture Barrier
   Install the Moisture Barrier per the manufacturer's recommendations.

2. Fascia Trim
   Install the Fascia Trim along all eaves and rakes.

3. Eave Trim
   Install the Eave Trim along all eaves lapping over the Fascia Trim.

4. Valley Trim
   Install the Valley Trim over the Eave Trim working from the eave to the valley peak.

5. MasterRib® Panels
   Install the panels over the Eave and Valley Trims. Do not install panels where the Ridge Trim laps under the panels.

6. Hip Trim
   Install the Hip Trim over the panels.
Installation Sequence

7. Ridge Trim
Install the Ridge Trim over the Hip Trim intersection and valley peak.

8. Transition Trim
Install the Transition Trim over the low slope panels and moisture barrier.

9. MasterRib® Panels
Complete the panel installation installing the high slop panels over the Trim Transition and the other remaining exposed locations.

10. Rake Trim
Install the Rake Trim over the panels along all rake (gable) edges.

11. High Side Peak Trim
Install the High Side Peak Trim over the panels.

12. Ridge Trim
Install the Ridge Trim over the panels.

13. Side Wall Trim
Install the Side Wall Trim over the panels.

14. Side Wall Trim (Rear View)
Install the Side Wall Trim over the panels.

15. End Wall Trim
Install the End Wall Trim over the panels.
Install the roof substrate according to local building code requirements.

2. Install moisture barrier according to the manufacturer's recommended procedure and in compliance with local building code requirements.

3. Install Fascia trim and butt ends.

4. Fasten trim with Pancake Screws 2' apart along the length of the trim.

5. Fasten trim with Wood Screws spaced 2' apart along the length of the trim.
Install moisture barrier according to the manufacturer's recommended procedure and in compliance with local building code requirements.

Fasten trim with Pancake Screws spaced 2" apart along the length of the trim.

Install the "T" Style trim and butt ends.

Install the roof substrate according to local building code requirements.

Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

Install the panel and overhang the panel a minimum of 1" beyond the "T" Style trim edge. See panel squaring method in this manual.

Apply Tube Sealant to the top side of the Inside Closure.

Place the Inside Closure over the top of the Butyl Tape.

Apply Butyl Tape along the length of the "T" Style trim.
Eave Edge

*Numbers indicate suggested trim assembly sequence.*

1. **Moisture Barrier**
   - Install moisture barrier according to the manufacture’s recommended procedure and in compliance with local building code requirements.

2. **Trim Pancake Screw**
   - Fasten trim with Pancake Screws spaced 2" apart along the length of the trim.

3. **Eave Edge Trim**
   - Install the Eave Edge trim and butt ends.

4. **Roof Substrate**
   - Install the roof substrate according to local building code requirements.

5. **Panel Wood Screw**
   - Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

6. **MasterRib® Panel**
   - Install the panel and overhang the panel a minimum of 1" beyond the “T” Style trim edge. See panel squaring method in this manual.

7. **Tube Sealant**
   - Apply Tube Sealant to the top side of the Inside Closure.

8. **Inside Closure**
   - Place the Inside Closure over the top of the Butyl Tape.

9. **Tape Sealant**
   - Apply Butyl Tape along the length of the “T” Style trim.
Rake

Numbers indicate suggested trim assembly sequence.

---

**Tape Sealant**
Apply Butyl Tape along the length of the panel.

**MasterRib® Panel**
Install the panel and overhang the panel a minimum of 1" beyond the "T" Style trim edge. See panel squaring method in this manual.

**Panel Wood Screw**
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

**Moisture Barrier**
Install moisture barrier according to the manufacture’s recommended procedure and in compliance with local building code requirements.

**Roof Substrate**
Install the roof substrate according to local building code requirements.

**Rake Trim**
Install the Rake trim and overlap the ends 4". See lapping diagram in this manual.

**Trim Wood Screw**
Fasten trim with Wood Screws spaced 2" apart along the length of the trim.

**Trim Wood Screw**
Fasten trim with Wood Screws spaced 2" apart along the length of the trim.
Preformed Valley

Numbers indicate suggested trim assembly sequence.

1. MasterRib® Panel
   Install the panel a minimum of 3" up from the water diverter at the bottom of the Valley and minimum of 3" down from the top of the Valley. See panel squaring method in this manual.

2. Trim Pancake Screw
   Fasten trim with Pancake Screws spaced 2" apart along the length of the trim. See lapping diagram fastener pattern in this manual.

3. Preformed Valley Trim
   Install the Valley trim and overlap the ends 4". See lapping diagram in this manual.

4. Roof Substrate
   Install the roof substrate according to local building code requirements.

5. Panel Wood Screw
   Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

6. Moisture Barrier
   Install moisture barrier according to the manufacture's recommended procedure and in compliance with local building code requirements.

7. EMSEAL Closure
   Place EMSEAL, a self sealing closure, parallel to each side of the Valley center water diverter. Closure should be up from the panel end about 1". See panel minimum set back above.

Notes:
1. See Valley Lapping - Page 25
2. See Valley Cutting - Page 26
Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

MasterRib® Panel
Install the panel up 1" the transition bend. See panel squaring method in this manual.

Tube Sealant
Apply Tube Sealant to the top side of the Inside Closure.

Inside Closure
Place the Inside Closure over the top of the Butyl Tape. The closure should be about 1" up from the panel end.

Transition Trim
Place the Transition Flashing Trim over the Outside Closure.

Trim Wood Screw
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib. See lapping diagram.

Tape Sealant
Apply Butyl tape across the width of the panel.

Outside Closure
Place the Outside Closure over the top of the Butyl Tape.

Tube Sealant
Apply Tube Sealant to the top side of the Outside Closure.

Tape Sealant
Apply Butyl tape across the width of the panel.

Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

MasterRib® Panel
Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier
Install moisture barrier according to the manufacturer's recommended procedure and in compliance with local building code requirements.

Roof Substrate
Install the roof substrate according to local building code requirements.

Numbers indicate suggested trim assembly sequence.
Gambrel

Numbers indicate suggested trim assembly sequence.

**MasterRib® Panel**
Install the panel up 1" the transition bend. See panel squaring method in this manual.

**Panel Wood Screw**
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

**Tube Sealant**
Apply Tube Sealant to the top side of the Inside Closure.

**Panel Wood Screw**
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

**Tube Sealant**
Apply Tube Sealant to the top side of the Inside Closure.

**Trim Wood Screw**
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib.

**MasterRib® Panel**
Install the panel and overhang the panel a minimum of 1" beyond the eave edge.

**Moisture Barrier**
Install moisture barrier according to the manufacture’s recommended procedure and in compliance with local building code requirements.

**Inside Closure**
Place the Inside Closure over the top of the Butyl Tape up about 1" from the panel end.

**Tape Sealant**
Apply Butyl Tape across the width of the panel.

**Gambrel Trim**
Place the Gambrel Flashing Trim over the Outside Closure.

**Outside Closure**
Place the Outside Closure over the top of the Butyl Tape.

**Tape Sealant**
Apply Butyl Tape across the width of the panel.

**Roof Substrate**
Install the roof substrate according to local building code requirements.
Hip

Numbers indicate suggested trim assembly sequence.

Panel Wood Screw
Fasten trim with Wood Screws spaced 18” apart along the length of the trim, through the rib. See lapping diagram fastener pattern in this manual.

Hip Trim
Place the Hip Trim over the EMSEAL Closure

EMSEAL Closure
Place EMSEAL self sealing closure parallel to each side of the hip center line so that hip fastener penetrates the center of the closure. Closure should be up from the panel end about 1”

Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

MasterRib® Panel
Install the panel and overhang the panel a minimum of 1” beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier
Install moisture barrier according to the manufacture’s recommended procedure and in compliance with local building code requirements.

Roof Substrate
Install the roof substrate according to local building code requirements.
Ridge

Numbers indicate suggested trim assembly sequence.

**Trim Wood Screw**
- Fasten trim with Wood Screws spaced 18” apart along the length of the trim, through the rib. See lapping diagram.

**Tube Sealant**
- Apply Tube Sealant to the top side of the Outside Closure.

**Ridge Trim**
- Place the Ridge Trim over the Outside Closure.

**Outside Closure**
- Place the Outside Closure over the top of the Butyl Tape.

**Tape Sealant**
- Apply Butyl Tape across the width of the panel.

**Panel Wood Screw**
- Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

**MasterRib® Panel**
- Install the panel and overhang the panel a minimum of 1” beyond the eave edge. See panel squaring method in this manual.

**Moisture Barrier**
- Install moisture barrier according to the manufacture’s recommended procedure and in compliance with local building code requirements.

**Roof Substrate**
- Install the roof substrate according to local building code requirements.
Vented Ridge

Numbers indicate suggested trim assembly sequence.

Trim Wood Screw
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib. See lapping diagram fastener pattern in this manual.

Ridge Trim
Place the Ridge Trim over the Outside Closure.

Vent Closure
Apply the self stick Versa Vent to the underside along the outside edge of the Ridge Cap Trim.

Panel Wood Screw
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

MasterRib® Panel
Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

Moisture Barrier
Install moisture barrier according to the manufacturer’s recommended procedure and in compliance with local building code requirements.

Roof Substrate
Install the roof substrate according to local building code requirements.
High Side Peak

Numbers indicate suggested trim assembly sequence.

**MasterRib® Panel**
Install the panel and overhang the panel a minimum of 1" beyond the eave edge. See panel squaring method in this manual.

**Moisture Barrier**
Install moisture barrier according to the manfacture’s recommended procedure and in compliance with local building code requirements.

**Roof Substrate**
Install the roof substrate according to local building code requirements.

**Panel Wood Screw**
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

**Outside Closure**
Place the Outside Closure over the tip of the Butyl Tape.

**Tape Sealant**
Apply Tape Sealant across the width of the panel.

**High Side Peak Trim**
Place the High Side Peak Trim over the Outside Closure.

**Trim Wood Screw**
Fasten trim with Wood Screws spaced 2' apart along the length of the trim. See lapping diagram.

**Trim Wood Screw**
Fasten trim with Wood Screws spaced 18" apart along the length of the trim, through the rib. See lapping diagram.

**Tube Sealant**
Apply Tube Sealant to the top side of the Inside Closure.
Side Wall

**MasterRib®**

Numbers indicate suggested trim assembly sequence.

1. **MasterRib® Panel**
   - Install the panel and overhang the panel a minimum of 1” beyond the eave edge. See panel squaring method in this manual.

2. **Tape Sealant**
   - Apply Butyl Tape along the length of the panel.

3. **Panel Wood Screw**
   - Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.

4. **Moisture Barrier**
   - Install moisture barrier according to the manufacturer’s recommended procedure and in compliance with local building code requirements.

5. **Tight seal**
   - Install the roof substrate according to local building code requirements.

6. **Side Wall Trim**
   - Place the Side Wall Trim over the Butyl tape and overlap the ends 4”. See lapping diagram in this manual.

7. **Trim Wood Screw**
   - Fasten trim with Wood Screws spaced 2’ apart along the length of the trim. See lapping diagram.

8. **Counter Flashing**
   - Position the Counter Flashing above the Side Wall Trim as shown. Some applications may not need counter flashing.

9. **Trim Wood Screw**
   - Fasten trim with Wood Screws spaced 2’ apart along the length of the trim. If wall material is not wood, fasteners will be by others.

10. **Tube Sealant**
    - Apply Tube Sealant continuously along the Counter Flashing and generously filling the space between the flashing and the wall. Round or slope the Sealant top so that water will run off.
End Wall

Numbers indicate suggested trim assembly sequence.

**Tube Sealant**
Apply Tube Sealant continuously along the Counter Flashing and generously filling the space between the flashing and the wall. Round or slope the Sealant top so that water will run off.

**Trim Wood Screw**
Fasten trim with Wood Screws spaced 2’ apart along the length of the trim. If wall material is not wood, fasteners will be by others.

**Counter Flashing**
Position the Counter Flashing above the Side Wall Trim as shown. Some applications may not need counter flashing.

**Side Wall Trim**
Place the End Wall Trim over the Butyl tape and overlap the ends 4”. See lapping diagram in this manual.

**Outside Closure**
Place the Outside Closure over the top of the Butyl Tape.

**Tube Sealant**
Apply Tube Sealant along the length of the Outside Closure.

**Trim Wood Screw**
Fasten trim with Wood Screws spaced 18” apart along the length of the trim, through the rib. See lapping diagram.

**MasterRib® Panel**
Install the panel and overhang the panel a minimum of 1” beyond the eave edge. See panel squaring method in this manual.

**Moisture Barrier**
Install moisture barrier according to the manufacture’s recommended procedure.

**Roof Substrate**
Install the roof substrate according to local building code requirements.

**Tape Sealant**
Apply Butyl Tape along the length of the panel.

**Panel Wood Screw**
Fasten panels to the roof substrate using Wood Screws spaced according to the recommended fastening pattern and frequency, and in compliance with local building codes.
Trim Dimensions

4 1/2" “T” Style

2 1/4"

1/2"

1 1/2"

1/2"

6” “T” Style

3"

1/2"

2 1/2"

1/2"

2 X 2 Eave Edge

2"

1 1/2"

1/2"

3 X 3 Eave Edge

3"

2 1/2"

1/2"

3 1/2” Fascia Trim

1/2"

3 1/2"

1/2"

1 1/2"

5 1/2” Fascia Trim

1/2"

5 1/2"

1/2"

1 1/2"
Trim Dimensions

7 1/2" Fascia Trim

- 1/2"
- 7 1/2"
- 1/2"
- 1 1/2"

Rake Trim

- 7/8"
- 3 1/4"
- 1/2"
- 1/2"
- 4 1/8"
- 1/2"
- 1/2"

Preformed Valley

- 1/2"
- 7 1/2"
- 7"
- 1"
- Specify Pitch
- 12

Transition Flashing

- 1/2"
- 6 3/8"
- 6 3/8"
- Specify Pitch
- 12

Notched Transition Flashing

- 6"
- 5 1/4"
- 3/4"
- Specify Pitch
- 12

Gambrel Flashing

- 1/2"
- 6"
- 5 1/4"
- 3/4"
- Specify Pitch
- 12

Length 41" (Coverage 36")

UNION CORRUGATING COMPANY
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Valley Lapping

After cutting notches and applying Tube Sealant, slide the up slope valley into the hem groove while lapping over the top of the low slope valley 4”.

After lapping, install screws spaced 2” apart between Tube Sealant rows. Do not install screws above edge of panel line.

Apply two rows of Tube Sealant spaced 2” apart.

Cross section of completed valley Lap.
Valley Cutting

Valley starter cutting diagram with water diverter tabs.

1. Cut alone dashed lines

2. Bend Line, bend left tab down 90°

3. Bend Line, bend right tab down 90°

After folding tabs
Pipe Flashing

Cut pipe flashing along the pipe diameter marking.

Apply tube sealant to the underside of the pipe flashing.

Slide pipe flashing down over the pipe.

Press the pipe flashing into contours of panel configuration and fasten to the MasterRib® panel with self-sealing stitch screws. Apply additional sealant around base if desired.