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The details shown on the following pages are suggestions or guidelines for installing the Maxima roof panel system. The installation details shown here are proven methods of construction, but they are not intended to cover all building requirements, designs or codes. The details may require changes or revisions due to individual project conditions.

Installation procedures shall be in accordance with the manufacturer's printed instructions, details or approved shop drawings. Installers should thoroughly familiarized themselves with all instructions prior to beginning the installation process.

The designer/installer is responsible to ensure the following:

That the details here meet the particular building requirements.

Awareness of and allowance for expansion/contraction of the roof panels.

That adequate water tightness is maintained.

That a proper uniform substructure is used to avoid panel distortion and that the substructure meets necessary code requirements.

That all supporting members have been examined and are straight, level and plumb.

McElroy Metal can provide all flashings and accessories shown in the installation drawings unless noted otherwise. Panels, flashing and trim shall be installed true and in proper alignment with any exposed fasteners equally spaced for the best appearance. Sealant shall be field applied on a clean, dry surface.

Some field cutting and fitting of panels and flashings is to be expected and to be considered a part of normal installation work. Workmanship shall be of the best industry standards and with installation performed by experienced metal craftsmen.

Oil canning of metal panels is in the product and is not a cause for rejection. Striated panels are recommended as the reduce the appearance of oil canning.

Contents of this manual are subject to change without notice. To confirm this book is the most current copy, please visit McElroy Metal's website at www.mcelroymetal.com.
MAXIMA EAVE FASTENER PATTERN

216 PANEL—EAVE FASTENERS
1/4-14 X 1 1/4" ZAC FASTENER
(TYPICAL)

218 PANEL—EAVE FASTENERS
1/4-14 X 1 1/4" ZAC FASTENER
(TYPICAL)

324 PANEL—EAVE FASTENERS
1/4-14 X 1 1/4" ZAC FASTENER
(TYPICAL)
END LAP FASTENER PATTERN

MAXIMA END LAP FASTENER PATTERN

(USE THESE PATTERNS AT END LAPS WHEN CINCH STRAPS ARE OMITTED)

216 PANEL–EAVE FASTENERS

1/4-14 X 1 1/4" ZAC FASTENER
(TYPICAL)

218 PANEL–EAVE FASTENERS

1/4-14 X 1 1/4" ZAC FASTENER
(TYPICAL)

324 PANEL–EAVE FASTENERS

1/4-14 X 1 1/4" ZAC FASTENER
(TYPICAL)
GENERAL INFORMATION

CAUTION!!!

It is critical that the panel seams are crimped and folded before using the electric seamer. Failure to follow these guidelines will result in damaged seams.

To begin seaming, set the hand seamer on the seam. Align the edge of the hand seamer about one to two inches passed the edge of the panel. Crimp the panel 3 to 4 times along the seam for a total of 12" at the eave and 5 or 6 time along the seam for a total of 18" at the ridge.

HAND SEAMING OPERATION

CAUTION!!!

It is critical that the panel seams are crimped and folded before using the electric seamer. Failure to follow these guidelines will result in damaged seams.

To begin seaming, set the hand seamer on the seam. Align the edge of the hand seamer about one to two inches passed the edge of the panel. Crimp the panel 3 to 4 times along the seam for a total of 12" at the eave and 5 or 6 time along the seam for a total of 18" at the ridge.
ATTENTION
READ THE SEAMER INFORMATION THOROUGHLY BEFORE STARTING THE SEAMING OPERATION. FAILURE TO ADHERE TO THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY AND DAMAGE TO THE SEAMER AND/OR PANELS. THE ERECTOR WILL BE HELD LIABLE FOR ANY COSTS INCURRED FOR REPLACEMENT OR REPAIR.

PRE-SEAMING INFORMATION
1. Locate seamer box. Check to make sure you received a hand seamer, electric seamer and an information booklet. If not, please call our Technical Service Department.
2. Locate power source and check against power requirements in the information booklet.
3. Check seams for proper engagement.
4. Clean dirt, debris and excess sealant from seams and panel surfaces to avoid interfering with the seaming operation.
5. Panels do not have to be machine seamed as they are installed. However, Maxima ADV and Maxima 1.5" panels should be hand seamed 90° at each clip location as soon as possible.

SEAMING OPERATION
To determine the direction of the seaming process, stand at the eave and look upslope. If the roof is being installed from LEFT to RIGHT, the seamer will run from RIDGE to EAVE. If the roof is being installed from RIGHT to LEFT, the seamer will run from EAVE to RIDGE.

A visual inspection of the seam should be made to determine if the seam is forming properly. Check seam against the cross section provided. IF THE SEAMER IS NOT PRODUCING A FINISHED SEAM SIMILAR TO THE CROSS SECTION PICTURED, STOP AT ONCE AND CALL THE MCELROY METAL TECHNICAL SERVICE DEPARTMENT.

INSTALLER NOTE: IF PANELS ARE INSTALLED RIGHT TO LEFT, STANDARD OUTSIDE CLOSURES WILL NOT WORK. ZEE CLOSURE MUST BE PURCHASED AND FORM OUTSIDE CLOSURE FROM THEM. PLEASE CONTACT THE MCELROY METAL ENGINEERING DEPARTMENT IF YOU HAVE ANY QUESTIONS.

CROSS SECTION OF SEAM

CAUTION: The use of any field seaming machine other than that provided by the manufacturer may damage the panels, void all warranties and will void all engineering data.
NOTES:
1. Eave Plate to run from steel line to steel line.
2. Simple Eave Trim to run from out of wall to out of wall.
3. Attach Simple Eave Trim to Eave Plate with temporary fasteners. Attach to wall panel at major ribs with 1/4-14 x 7/8" Lap Tek fasteners.
4. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant in trim laps and Pop Rivet trims as shown on page C-36.
5. Apply continuous run of 3/16" x 7/8" Double Bead Tape on top of Simple Eave Trim.
6. Apply 3/16" x 7/8" Double Bead Tape Pigtails at Eave.
NOTES:

1. Eave Plate to run from steel line to steel line.
2. Simple Eave Trim and Gutter to run from out of wall to out of wall.
3. Attach Simple Eave Trim to Eave Plate with temporary fasteners. Attach to wall panel at major ribs with a 1/4-14 x 7/8" Lap Tek.
4. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and Pop Rivet trims as shown on page C-36.
5. Apply continuous run of 3/16" x 7/8" Double Bead on top of Simple Eave Trim.
6. Apply 3/16" x 7/8" Double Bead Pigtails at Eave.
7. Attach Gutter to roof panel with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C. Attach Gutter Straps to panel ribs with 1/4-14 x 7/8" Lap Tek ZAC fastener. Then attach Gutter to Gutter Strap with a 1/4-14 x 7/8" Lap Tek ZAC fasteners.

**NOTE:** SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
MAXIMA

EAVE DETAIL W/ SCULPTURED EAVE TRIM

NOTES:
1. Eave Plate to run from steel line to steel line.
2. Sculptured Eave Trim to run from out of wall to out of wall.
3. Attach Sculptured Eave Trim to Eave Plate with temporary fasteners. Attach to wall panel at major ribs with a 1/4-14 x 7/8" Lap Tek.
4. Apply continuous run of 3/16" x 7/8" Double Bead on top of Sculptured Eave Trim.
5. Apply 3/16" x 7/8" Double Bead Pigtails at Eave and Ridge of male panel leg as shown on page ____.
6. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and Pop Rivet trims as shown on page C-36.

*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
NOTES: 1. Ridge Flashing to 2" outside of face of wall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top flange of Outside Closures continuously along Ridge.
3. Attach Ridge Flashing to Outside Closures with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 6" O.C.
4. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with 1/4-14 x 7/8" Lap Tek Zac Fasteners at 3" O.C.
5. For Low Systems only, the first as well as the last Back-up Plate must be field modified to properly nest with the Rake Angle. Notch out the vertical leg of Back-up Plate to clear Rake Angle.
NOTES: 1. Ridge Flashing to 2" outside of face of wall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top flange of Outside Closures continuously along Ridge.
3. Attach Ridge Flashing to Outside Closures with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 6" O.C.
4. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with 1/4-14 x 7/8" Lap Tek Zac Fasteners at 3" O.C.

*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
NOTES:
1. High Side Eave Flashing to run from out of wall to out of wall.
2. Place 3/32" x 1" Roll Tape Sealant on top flange of Outside Closures continuously along Ridge.
3. Attach High Side Eave Flashing to Outside Closures with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 6" O.C.
4. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.
FLOATING HIGH SIDE EAVE DETAIL

NOTES: 1. High Side Eave Flashing to run from out of wall to out of wall.
2. Place 3/32" x 1" Roll Tape Sealant on top flange of Outside Closures continuously along Ridge.
3. Attach High Side Eave Flashing to Outside Closures with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 6" O.C.
4. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.

1/4-14 X 7/8" LAP TEK ZAC FASTENER (@ 0'-6" O.C.)
3/32" X 1" ROLL TAPE SEALANT (CONT. ALONG TOP OF CLOSURES)
MAXIMA FLOATING CLIP
MAXIMA PANEL
1/4-14 X 1 1/4" HWH TEK2 FASTENERS (2 PER CLIP)

TUBE CAULK
1/4-14 X 1 1/4" TEK2 ZAC FASTENER (1 PER CLOSURE)
HIGH SIDE EAVE TRIM
OUTSIDE CLOSURE
1/4-14 X 1 1/4" TEK2 ZAC FASTENERS (5 PER CLOSURE)
3/16" X 7/8" DOUBLE BEAD TAPE SEALANT (BOTTOM & SIDES OF CLOSURE)
BACK-UP PLATE
WALL FASTENER
OUTSIDE CLOSURE (RECOMMENDED)
1/4-14 X 7/8" LAP TEK FASTENER (@ 1'-0" O.C.)
WALL PANEL
EAVE STRUCTURAL MEMBER

WALL PANEL
OUTSIDE CLOSURE (RECOMMENDED)
BACK-UP PLATE

*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
NOTES:  
1. Cut panels to required bevel for Hip condition.  
2. Two Outside Closures required per panel. Cut off, cut out, slit and bend to required bevel.  
3. Install closures over 3/16" x 7/8" Double Bead Tape Sealant and fasten with 1/4-14 x 1 1/4" Tek2 ZAC fasteners at 4" O.C.  
4. Apply 3/32" x 1" Butyl Tape on top flange of Outside Closure continuously along length of Hip.  
5. Fill void areas with Tube Caulking.  
6. Install Hip Flashing from eave to ridge. Trim joint laps are to be 2" (min.) Apply 3/32" x 1" Roll Tape Sealant or 3/16" Ø bead of Tube Butyl at lap joints. Fasten with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 3" O.C.  
7. Attach Hip Flashing to top flange of Outside Closures with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 6" O.C.
**FLOATING HIP DETAIL**

**NOTES:**
1. Cut panels to required bevel for Hip condition.
2. Two Outside Closures required per panel. Cut off, cut out, slit and bend to required bevel.
3. Install closures over 3/16" x 7/8" Double Bead Tape Sealant and fasten with Structural Pop Rivets at 4" O.C.
4. Apply 3/32" x 1" Butyl Tape on top flange of Outside Closure continuously along length of Hip.
5. Fill void areas with Tube Caulking.
6. Install Hip Flashing from eave to ridge. Trim joint laps are to be 2" (min.) Apply 3/32" x 1" Roll Tape Sealant or 3/16" Ø bead of Tube Butyl at lap joints. Fasten with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 3" O.C.
7. Attach Hip Flashing to top flange of Outside Closures with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 6" O.C.

*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.*
1/4-14 x 7/8" Lap Tek ZAC Fastener (@ 1'-0" O.C.)

3/32" x 1" Roll Tape Sealant (Cont. Along Rake)

Rake Trim

1/4-14 x 7/8" Lap Tek ZAC Fastener (@ Each Clip)

Maxima Fixed Clip (@ 2'-0" O.C.)

Rake Angle

Wall Panel

WALL FASTENER

Outside Closure (Recommended)

1/4-14 x 7/8" Lap Tek Fastener (@ Major Ribs)

1/4-14 x 1 1/4" HWH TEK2 Fasteners (2 per Clip)

Maxima Panel

Thermal Spacer

Roof Structural Member

NOTES:
1. Rake Trim to start even with face of sidewall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top of panel leg continuously along Rake.
3. Attach Rake Trim to roof panel with 1/4-14 x 7/8" Lap Tek fasteners at 1'-0" O.C.
4. Attach Rake Trim to wall panels with 1/4-14 x 7/8" Lap Tek fasteners at major ribs.
5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.
**NOTES:**

1. Rake Trim to start even with face of sidewall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top of panel leg continuously along Rake.
3. Attach Rake Trim to roof panel with 1/4-14 x 7/8" Lap Tek fasteners at 1'-0" O.C.
4. Attach Rake Slide Trim to wall panels with 1/4-14 x 7/8" Lap Tek fasteners at major ribs.
5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.

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**FLOATING RAKE START DETAIL**

**1/4-14 X 7/8" LAP TEK ZAC FASTENER (@ 1'-0" O.C.)**

**3/32" X 1" ROLL TAPE SEALANT (CONT. ALONG RAKE)**

**MAXIMA FLOATING CLIP (@ 2'-0" O.C.)**

**MAXIMA PANEL**

**THERMAL SPACER**

**ROOF STRUCTURAL MEMBER**

**1/4-14 X 1 1/4" HWH TEK2 FASTENER (2 PER CLIP)**

**RAKE ANGLE**

**WALL PANEL**

**WALL FASTENER**

**RAKE SLIDE TRIM**

**OUTSIDE CLOSURE (RECOMMENDED)**
NOTES:
1. Rake Trim to start even with face of sidewall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4" Lap Tek ZAC fasteners at 1'-0" O.C. Install from Ridge to Eave to avoid "Back Water Laps". Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Trim to Zee Closure with 1/4-14 x 7/8" Lap Tek fasteners at 1'-0" O.C.
5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.
NOTES:
1. Rake Trim to start even with face of sidewall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4" Lap Tek ZAC fasteners at 1'-0" O.C. Install from Ridge to Eave to avoid "Back Water Laps". Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Trim to Zee Closure with 1/4-14 x 7/8" Lap Tek fasteners at 1'-0" O.C.
5. Attach Rake Trim to wall panels with 1/4-14 x 7/8" Lap Tek fasteners at major ribs.
6. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.
NOTES:  
1. Rake Trim to start even with face of sidewall panels.  
2. Place 3/32" x 1" Roll Tape Sealant on top of panel leg continuously along Rake.  
3. Attach Rake Trim to roof panel with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C.  
4. Attach Rake Trim to wall panels with 1/4-14 x 7/8" Lap Tek fasteners at major ribs.  
5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.
NOTES: 1. Rake Trim to start even with face of sidewall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top of panel leg continuously along Rake.
3. Attach Rake Trim to roof panel with 1/4-14 x 7/8" Lap Tek fasteners at 1'-0" O.C.
4. Attach Rake Slide Trim to wall panels with 1/4-14 x 7/8" Lap Tek ZAC fasteners at major ribs.
5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.
1. Rake Trim to start even with face of sidewall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4" Lap Tek ZAC fasteners at 1'-0" O.C. Install from Ridge to Eave to avoid "Back Water Laps". Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Trim to Zee Closure with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C.
5. Attach Rake Trim to wall panels with 1/4-14 x 7/8" Lap Tek fasteners at major ribs.
6. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.

*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
NOTES:
1. Rake Trim to start even with face of sidewall panels.
2. Place 3/32" x 1" Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4" Lap Tek ZAC fasteners at 1'-0" O.C. Install from Ridge to Eave to avoid "Back Water Laps". Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Trim to Zee Closure with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C.
5. Attach Rake Trim to wall panels with 1/4-14 x 7/8" Lap Tek fasteners at major ribs.
6. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and secure trim joint with Pop Rivets as shown on page C-36.
NOTES: 1. Rake Tie-In Trim to start even with building line.
2. Place 3/32" x 1" Roll Tape Sealant along top of female leg of panel the length of the rake.
3. Attach Rake Tie-In Trim with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C. Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Trim pieces lap 2".
NOTES: 1. Rake Tie-In Trim to start even with building line.
2. Place 3/32" x 1" Roll Tape Sealant along top of female leg of panel the length of the rake.
3. Attach Rake Tie-In Trim with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C. Place
   3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Trim pieces lap 2".
Maxima Fixed Rake Start Tie-in Detail (Off Module)

Notes:
1. Rake Tie-In Trim to start even with building line.
2. Place 3/32" x 1" Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4" Lap Tek ZAC fasteners at 1'-0" O.C. Install from Ridge to Eave to avoid "Back Water Laps". Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Tie-In Trim to Zee Closure with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C.
5. Trim pieces lap 2".

Technical Service
1-800-950-9082
MAXIMA FLOATING RAKE START TIE-IN DETAIL (OFF MODULE)

NOTES:
1. Rake Tie-In Trim to start even with building line.
2. Place 3/32" x 1" Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4" Lap Tek ZAC fasteners at 1'-0" O.C. Install from Ridge to Eave to avoid "Back Water Laps". Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Tie-In Trim to Zee Closure with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C.
5. Trim pieces lap 2".

BUILDING LINE
FLEXIBLE MEMBRANE (NOT BY MCELROY)
ZEE CLOSURE W/ 3/32" X 1" ROLL TAPE SEALANT (TOP & BOTTOM)
1/4-14 X 1 1/4" HWH TEK2 W/ SHOULDER FASTENER (@ 1'-0" O.C.)
FLOATING RAKE PLATE
RAKE ANGLE
TUBE SEALANT (NOT BY MCELROY)
COUNTER FLASHING (NOT BY MCELROY)
RAKE TIE-IN TRIM
1/4-14 X 7/8" LAP TEK ZAC FASTENER (@ 1'-0" O.C.)
MAXIMA PANEL
THERMAL SPACER
ROOF STRUCTURAL MEMBER

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
NOTES:
1. Rake Tie-In Trim to start even with building line.
2. Place 3/32" x 1" Roll Tape Sealant along top of female leg of panel the length of the rake.
3. Attach Rake Tie-In Trim with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C. Place
   3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Trim pieces lap 2".
NOTES: 1. Rake Tie-In Trim to start even with building line.
2. Place 3/32" x 1" Roll Tape Sealant along top of female leg of panel the length of the rake.
3. Attach Rake Tie-In Trim with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C. Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Trim pieces lap 2".

*TNote: Some trim items and fasteners have been removed for clarity of isometric detail.
NOTES: 1. Rake Tie-In Trim to start even with building line.
2. Place 3/32" x 1" Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4" Lap Tek ZAC fasteners at 1'-0" O.C. Install from Ridge to Eave to avoid "Back Water Laps". Place 3/32" x 3/8" Butyl Tape or 3/16" Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Tie-In Trim to Zee Closure with 1/4-14 x 7/8" Lap Tek ZAC fasteners at 1'-0" O.C.
5. Trim pieces lap 2".
NOTES: 1. Rake Tie-In Trim to start even with building line.
2. Place 3/32” x 1” Roll Tape Sealant on top and bottom of Zee Closure the length of the rake.
3. Attach Zee Closure with 1/4-14 x 1 1/4” Lap Tek ZAC fasteners at 1’-0” O.C. Install from Ridge to Eave to avoid “Back Water Laps”. Place 3/32” x 3/8” Butyl Tape or 3/16” Ø bead of Butyl Tube Sealant in laps.
4. Attach Rake Tie-In Trim to Zee Closure with 1/4-14 x 7/8” Lap Tek ZAC fasteners at 1’-0” O.C.
5. Trim pieces lap 2”. 

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
NOTES: 1. Install Valley Trim from eave to ridge. Valley Trim pieces lap 6”. Place 3/32” x 1” Butyl Tape or a 3/16” Ø bead of Butyl Tube Sealant in laps.
2. Cut panels at required bevel for valley condition.
3. Apply a continuous line of 3/16” x 7/8” Double Bead Tape Sealant up both sides of Valley Trim.
4. Install roof panels and attach with 1/4-14 x 1 1/4” Tek2 ZAC fasteners at 4” O.C.
NOTES: 1. Install High Side Tie-In Trim from out of panel to out of panel.
2. Apply continuous line of 3/32” x 1” Roll Tape Sealant along top of Outside Closures.
3. Install High Side Tie-In Trim to Outside Closures with 1/4-14 x 7/8” Lap Tek Zac Fasteners at 6” O.C.
4. Trim laps are 2”. Apply 3/32” x 1” Butyl Tape or a 3/16” Ø bead of Tube Butyl in laps.
FLOATING HIGH SIDE TIE-IN DETAIL

NOTES:
1. Install High Side Tie-In Trim from out of panel to out of panel.
2. Apply continuous line of 3/32" x 1" Roll Tape Sealant along top of Outside Closures.
3. Install High Side Tie-In Trim to Outside Closures with 1/4-14 x 7/8" Lap Tek Zac Fasteners at 6" O.C.
4. Trim laps are 2". Apply 3/32" x 1" Butyl Tape or a 3/16" Ø bead of Tube Butyl in laps.
NOTES: 1. Prior to attaching panel to the Eave Plate, measure the panel overhang at the purlin. The panel should extend 7" (+/- 1/4") up slope from the web of the purlin or centerline of joist.
2. Slide the Back-up Plate on the end of the panel. Make sure the teeth are fully engaged with the panel.
3. Apply a line of 3/32" x 1" Roll Tape Sealant 1 3/4" from the up slope end of the panel. The factory notches along the leading and trailing legs are 2" long and can be used as a guide to start the sealant placement.
4. Position the up slope panel so the hook portion of the trailing leg is against the notch portion of the previously installed panel. The up slope panel should be aligned so the tape sealant on the down slope panel is covered by the up slope panel.

NOTE: CINCH STRAPS MAY BE OMITTED ON ROOF PITCHES OF 1:12 OR GREATER. SEE PAGE B-1 FOR FASTENER PATTERNS TO USE.

NOTE**: FOR LOW SYSTEMS ONLY, THE FIRST AND LAST BACK-UP PLATE MUST BE FIELD MODIFIED TO CLEAR RAKE ANGLE. NOTCH OUT THE STIFFENER LEG OF THE BACK UP PLATE.
MAXIMA

END LAP DETAIL (CONT.)

1/4-14 X 1 1/4" TEK2 ZAC FASTENERS (4 PER PANEL) (5 PER PANEL IF OMITTING CINCH STRAPS)

CINCH STRAP (SEE NOTE*)

3/32" X 1" X 2" LONG ROLL TAPE SEALANT COVERING END LAP ON TOP OF MALE LEG.

1/4-14 X 7/8" LAP TEK ZAC FASTENER (1 PER CLIP AT RAKES)

MAXIMA PANELS

MAXIMA FLOATING CLIPS

1/4-14 X 1 1/4" HWH TEK2 FASTENERS (2 PER CLIP)

THERMAL SPACER

ROOF STRUCTURAL MEMBER

3/32" X 1" X 2" LONG ROLL TAPE SEALANT ON TOP OF MALE LEG WHERE END LAP WILL OCCUR.

3/32" X 1" X 2" LONG ROLL TAPE SEALANT COVERING END LAP ON TOP OF MALE LEG.

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
**OUTSIDE CLOSURE INSTALLATION DETAIL**

**FIG. 1**

**USING AVIATION SNIPS, NOTCH SEAM BEFORE IT HAS BEEN HAND SEAMED. (SEE FIG. 1)**

**3/16" X 7/8" DOUBLE BEAD TAPE SEALANT (PIGTAIL)**

**BACK-UP PLATE**

**STEP 1**

INSTALL PANELS AND BACK-UP PLATES AS NORMAL.

NOTCH PANELS SEAMS AT RIDGE TWO INCHES (2"") DOWN FROM END OF PANEL, REMOVING ALL OF THE HORIZONTAL PORTION OF THE SEAM. SEE FIGURE 1.
USING A MAXIMA 90° HAND SEAMER, SEAM 18" DOWN FROM END OF PANEL. HAND SEAM ALL PANELS BEFORE INSTALLING CLOSURES.
IF USING THE MAXIMA ADV PANEL, HAND SEAM 90° FOR 18", THEN AT TOP OF PANEL SEAM, HAND SEAM 180° FOR 6".

1/3" X 7/8" DOUBLE BEAD TAPE SEALANT (PIGTAIL)

STEP 2
HAND SEAM PANELS EIGHTEEN INCHES (18") DOWN FROM THE ENDS OF THE PANELS.
STEP 3

APPLY 3/16" X 7/8" ROLL TAPE SEALANT TO THE TOP SIDE OF THE PANEL SEAM WHERE THE NOTCH YOU MADE ENDS.

APPLY 3/16" X 7/8" DOUBLE BEAD TAPE SEALANT TO THE BOTTOM AND SIDES OF THE OUTSIDE CLOSURE. (THIS SEALANT MUST BE CONTINUOUS FROM ONE SIDE TO THE OTHER)

INSTALL OUTSIDE CLOSURES SO THAT VERTICAL FACE OF CLOSURE IS LINED UP AT NOTCH IN SEAM.
1/4-14 x 7/8" Lap Tek ZAC Fastener (used at start and end closures)

1/4-14 x 1 1/4" TEK2 ZAC Fastener (5 per closure)

Maxima 16" Universal Outside Closure

3/16" x 7/8" Double Bead Tape Sealant (bottom & sides of closure)

3/32" x 1" Roll Tape Sealant (1" pieces at notch of seam)

3/16" x 7/8" Double Bead Tape Sealant (pigtail)

Thermal Spacer

SEE FIG. 2

Step 4

Fasten outside closures to panels with five (5) 1/4-14 x 1 1/4" TEK2 ZAC fasteners.

At the starting and ending panels only, use one (1) 1/4-14 x 7/8" Lap Tek ZAC fastener to secure the outside vertical leg of the closure to the vertical leg of the panel. See Fig. 2.

Note: Some trim items and fasteners have been removed for clarity of isometric detail.
STEP 5

FASTEN OUTSIDE CLOSURES TO PANELS AS DESCRIBED IN STEP 4.

SECURE THE VERTICAL LEG OF THE CLOSURES TO THE VERTICAL SEAM WITH ONE (1) 1/4-14 X 1 1/4" TEK2 ZAC FASTENER. SEE FIGURE 3.
STEP 6

APPLY 3/32” X 1” ROLL TAPE SEALANT TO THE TOP OF THE OUTSIDE CLOSURES. THIS TAPE IS CONTINUOUS ALONG THE FULL LENGTH OF THE Ridge, HIGH SIDE EAVE, HIP, TRANSITION, ETC.

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
NOTES: 1. Starting from the right hand side of roof, hand crimp seams 18" down from the end of the panel.
2. Place a 1" long piece of 3/16" x 7/8" Double Bead Tape Sealant across the top of the seam at the notch. If panels are not factory notched, place sealant tape 2" down from end of seam.
3. Apply 3/16" x 7/8" Double Bead Tape Sealant to the sides and bottom of an Outside Closure.
4. Starting at the right-hand side of the roof, install Outside Closures and fasten to the pan of the roof panels with five (6) 1/4-14 x 1 1/4" Tek2 ZAC Fasteners and one (1) 1/4-14 x 1 1/4" Tek2 ZAC Fastener through the tabs into the panel seams.
NOTES: 
1. Cut hole in panel 1" larger than pipe diameter. If installing over a solid substrate, over-cut hole in substrate so fastener do not pin system from thermal movement.
2. Cut hole in top of Dektite Boot so that it fits snugly around pipe. Apply a 3/16" Ø bead of Tube Butyl sealant around the base flage of boot. Secure to panel with 1/4-14 x 7/8" Lap Tek ZAC fasteners 2" O.C.
3. Dektite boot MUST fit in pan of panel. Do not fasten to standing seams.
MAXIMA FLOATING CLIP

1/4-14 X 1 1/4" HWH TEK2 FASTENERS (2 PER CLIP)

3/32" X 1" ROLL TAPE SEALANT (3" PIECE PLACED WHERE END LAP OF PANELS WILL OCCUR)

MAXIMA PANELS

SUPPORT MEMBERS (NOT BY MCELROY)

ROOF STRUCTURAL MEMBER

STEP #1

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
MAXIMA PANELS
3/32" X 1" ROLL TAPE SEALANT
(3" PIECE PLACED WHERE END LAP OF PANELS OCCUR)
FIELD NOTCH PANELS AT LAP

3/16" X 7/8" DOUBLE BEAD TAPE SEALANT
3/16" X 7/8" DOUBLE BEAD TAPE SEALANT (PIGTAIL)

1/4-14 X 1 1/4" HWH TEK2 FASTENER (2 PER CLIP)
FIELD NOTCH CURB FLANGE WHERE PANEL CLIP WILL ATTACH TO ROOF STRUCTURAL MEMBER

ROOF CURB (NOT BY MCELROY)
ROOF CURB SUPPORT MEMBER (NOT BY MCELROY)
NOTCH CURB FLANGE AROUND PANEL SEAMS

STEP #2

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
ROOF CURB INSTALLATION DETAIL

MAXIMA PANELS

3/32" X 1" ROLL TAPE SEALANT

CLAMP TO HOLD BACK-UP PLATE IN PLACE WHILE INSTALLING (NOT BY MCELROY)

3/32" X 1" ROLL TAPE SEALANT (3" PIECE PLACED WHERE END LAP OF PANELS OCCUR)

MAXIMA FLOATING CLIP

3/32" X 1" ROLL TAPE SEALANT

3/16" X 7/8" DOUBLE BEAD TAPE SEALANT

FIELD NOTCH CURB FLANGE WHERE PANEL CLIP WILL ATTACH TO ROOF STRUCTURAL MEMBER

1/4-14 X 1 1/4" HWH TEK2 FASTENERS (2 PER CLIP)

3/32" X 1" ROLL TAPE SEALANT

ROOF CURB (NOT BY MCELROY)

ROOF STRUCTURAL MEMBER

BACK-UP CHANNEL

1/4-14 X 1 1/4" TEK2 ZAC FASTENERS (@ 0'-4" O.C.)

3/16" X 7/8" DOUBLE BEAD TAPE SEALANT (PIGTAIL)

STEP #3

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
ROOF CURB INSTALLATION DETAIL

MAXIMA PANELS
1/4-14 X 1 1/4" TEK2 ZAC FASTENERS (@ 0'-4" O.C.)

PANEL RIB COVER (NOT BY MCELROY)
(FILL RIB COVER 2/3 FULL OF TUBE BUTYL BEFORE INSTALLING)

MAXIMA FLOATING CLIP
1/4-14 X 1 1/4" HWH TEK2 FASTENERS (2 PER CLIP)

3/16" X 7/8" DOUBLE BEAD TAPE SEALANT (PIGTAIL)

3/16" X 7/8" DOUBLE BEAD TAPE SEALANT
(PIGTAIL)

3/32" X 1" ROLL TAPE SEALANT
(APPLY WHERE RIB CAP WILL BE INSTALLED)

BACK-UP CHANNEL

ROOF STRUCTURAL MEMBER

STEP #4

NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.
MAXIMA PANELS
1/4-14 X 1 1/4" TEK2 ZAC FASTENERS (@ 0'-4" O.C.)

PANEL RIB COVER
(NOT BY MCCELROY)
(FILL RIB COVER 2/3 FULL OF TUBE BUTYL BEFORE INSTALLING)

ROOF CURB
(NOT BY MCCELROY)

ROOF STRUCTURAL MEMBER

STEP #5
NOTE: 1. Apply 3/32" x 3/8" Roll Tape Sealant or a 3/16" Ø bead of Tube Butyl 1 1/2" back from the edge of the trim. Also, apply a piece of tape sealant or bead of Tube Butyl as a Pigtail to completely seal joint.
2. Notch the hems on the upper trim piece 2" so that the trim will fit flat in the lap joint.
3. Secure trim laps with Pop Rivets as shown above.