

MULTI-RIB R-PANEL

INSTALLATION

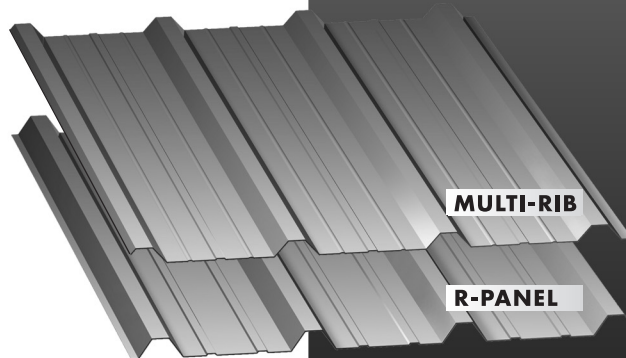


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GENERAL NOTES

The details shown on the following pages are suggestions or guidelines for installing the Multi-Rib and R-Panel wall and 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.

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.

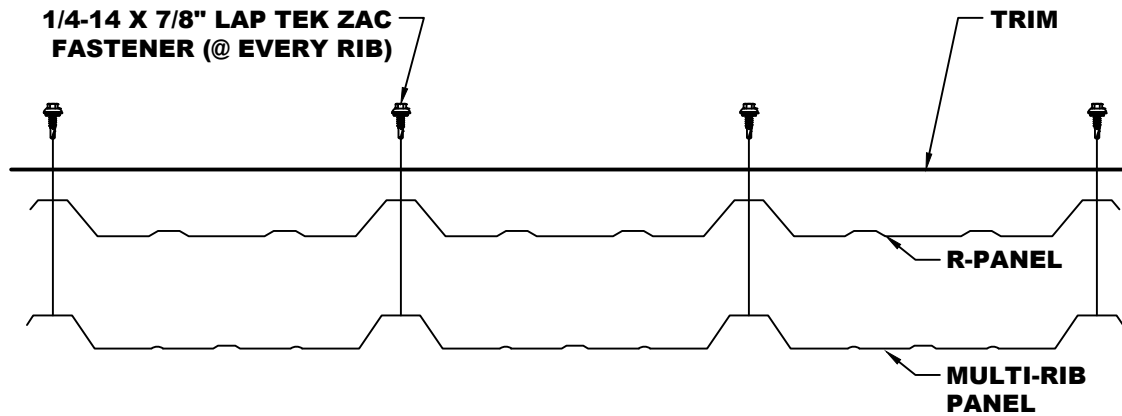
McElroy Metal can provide all flashings and accessories shown in the installation drawings unless noted otherwise. Panels, flashing and trim shall be installed true and in proper alignment with any exposed fasteners equally spaced for the best appearance. Sealant shall be field applied on a clean, dry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

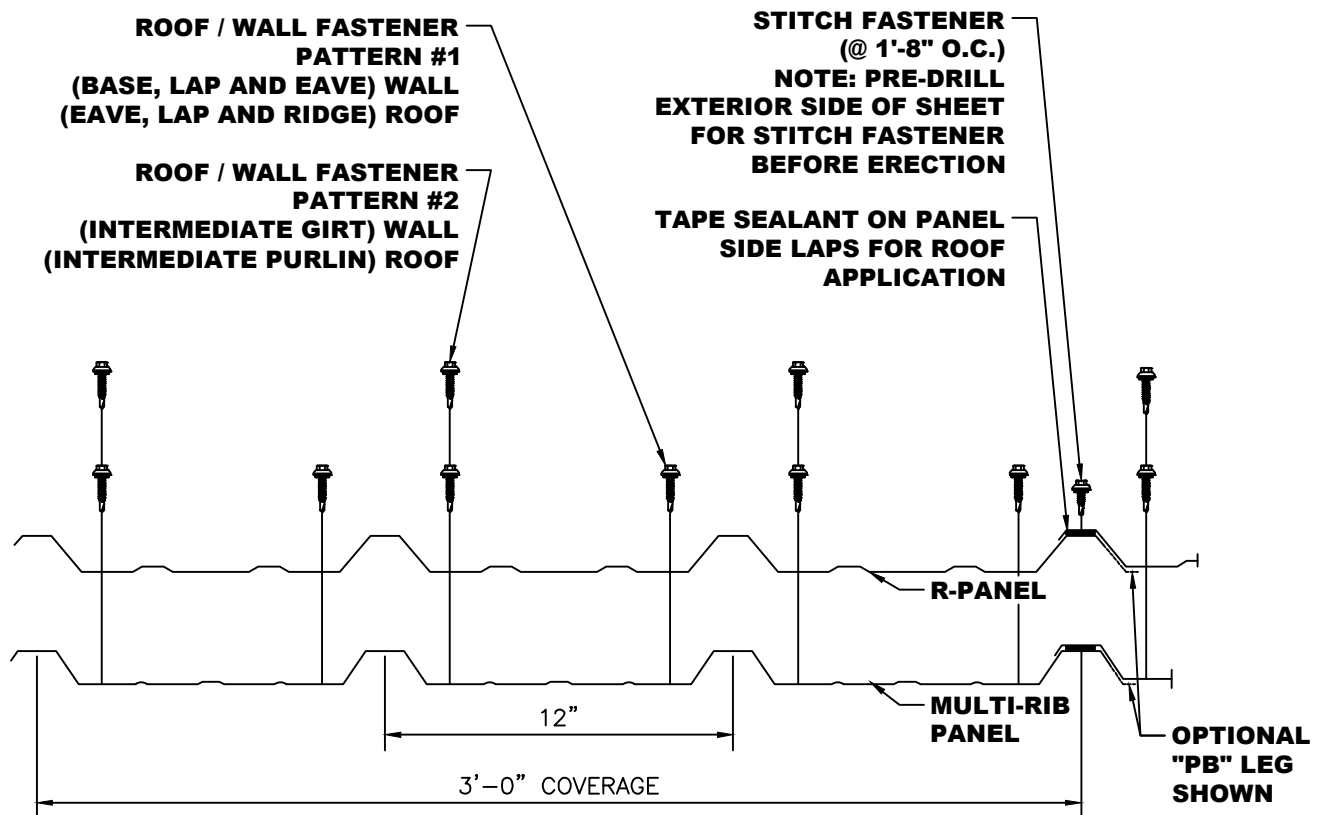
Oil canning of metal panels is inherent in the product and is not a cause for rejection.

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.

FASTENER PATTERNS

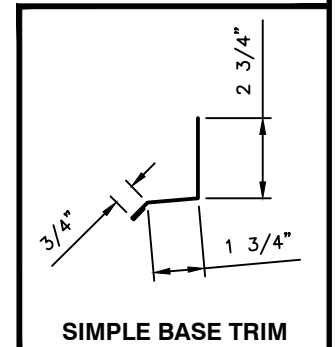
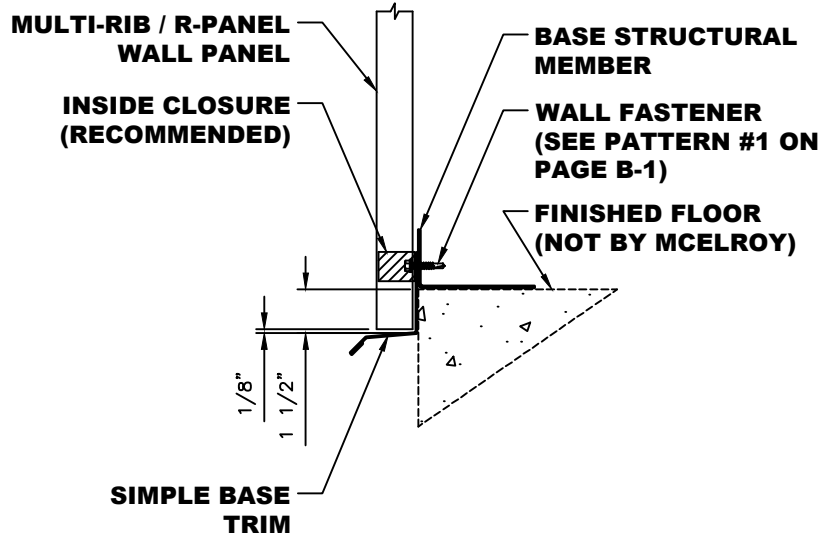


TRIM FASTENER PATTERN

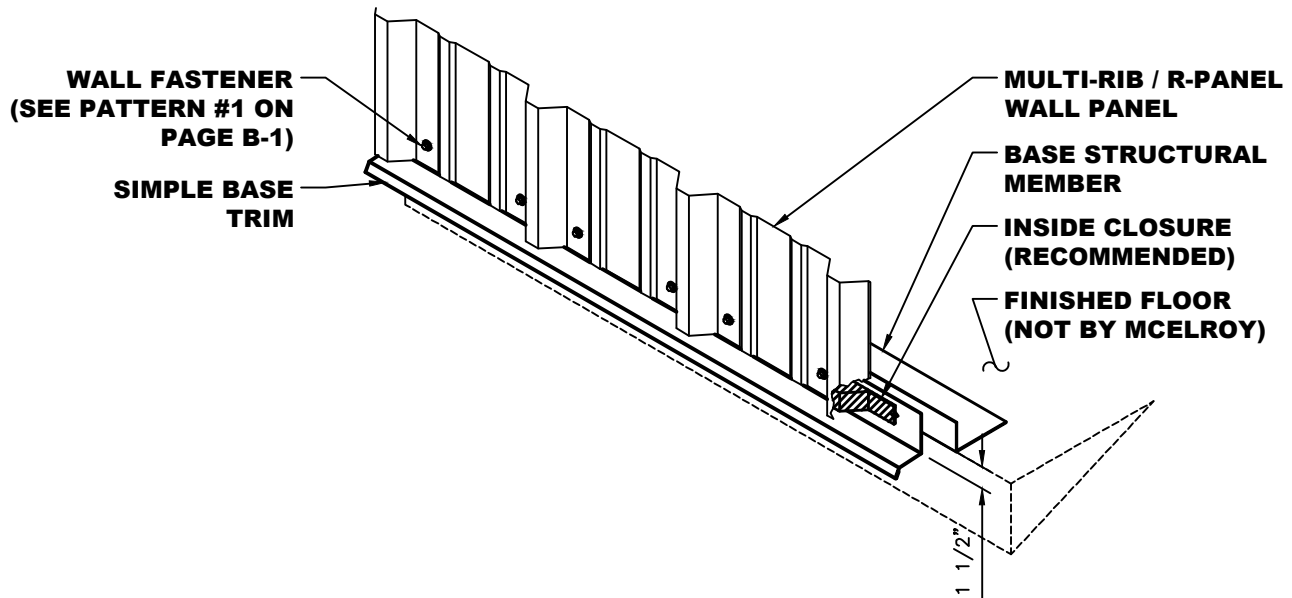


PANEL FRAMING AND STITCH FASTENER PATTERNS

SIMPLE BASE DETAIL

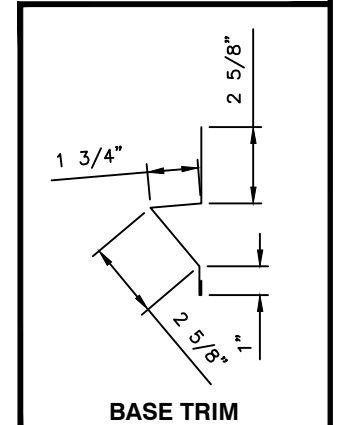
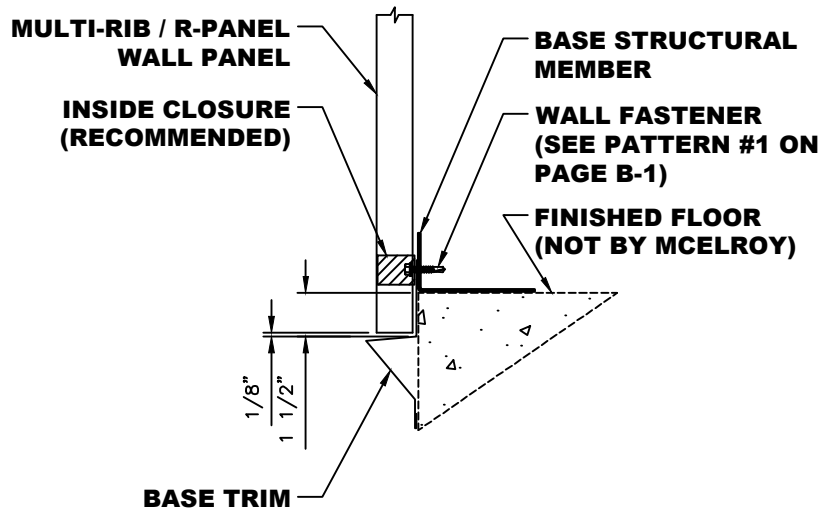


- NOTES:**
1. Base Structural Member set flush with edge of Finished Floor.
 2. Set Simple Base Trim 1 1/2" down face of finished floor.
 3. Set Closure in position on Simple Base Trim.
 4. Set Multi-Rib / R-Panel Wall Panel into place. Make sure to leave a 1/8" gap between trim and panel.
 5. Attach panel with Framing Fasteners per Fastening Pattern #1 shown on page B-1.

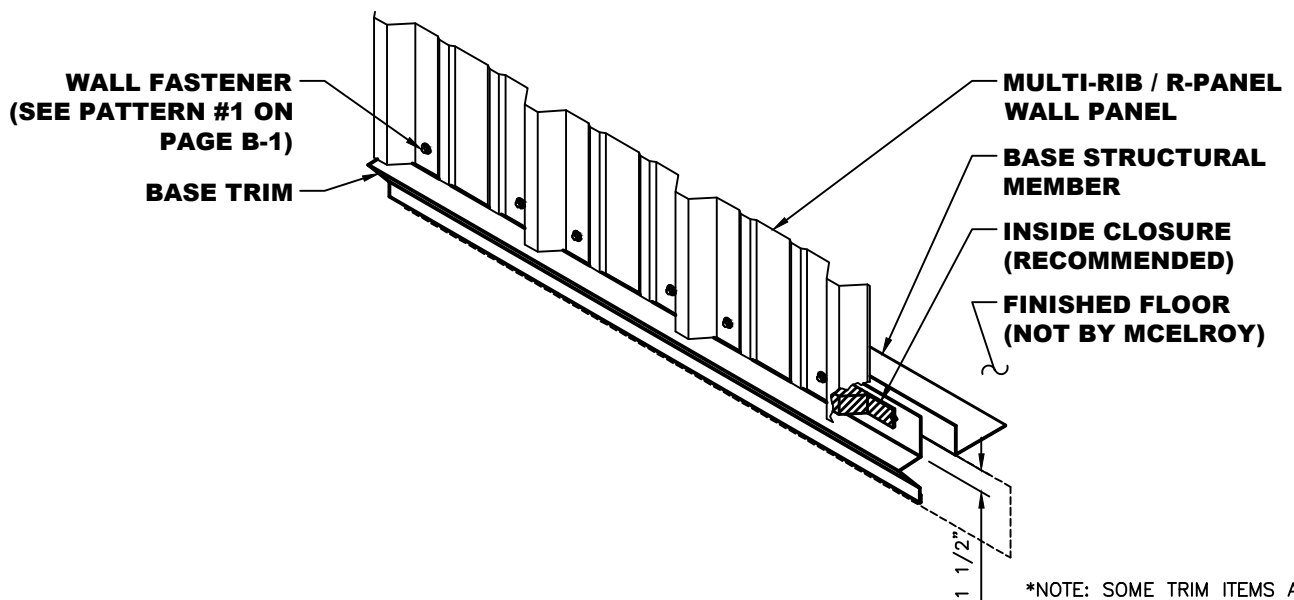


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

BASE DETAIL

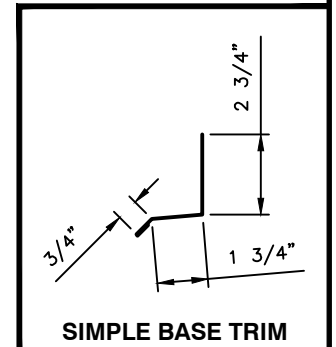
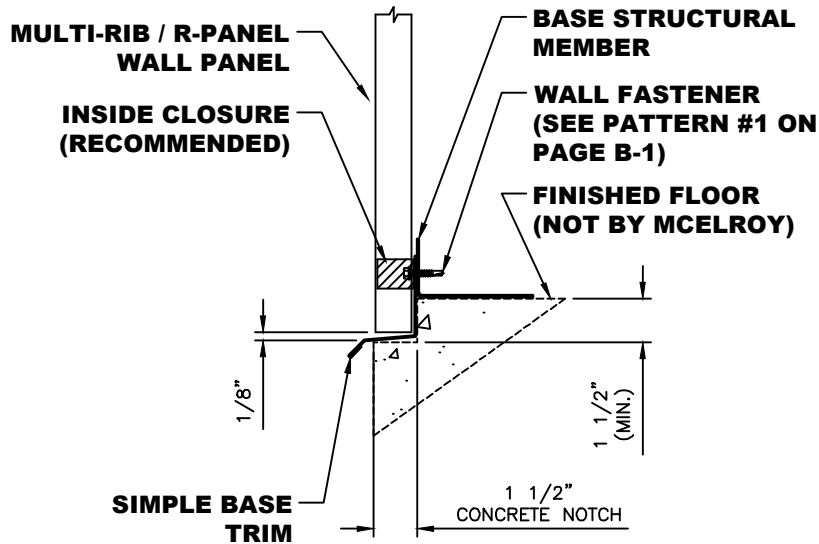


- NOTES:**
1. Base Structural Member set flush with edge of Finished Floor.
 2. Set Base Trim 1 1/2" down face of finished floor.
 3. Set Closure in position on Base Trim.
 4. Set Multi-Rib / R-Panel Wall Panel into place. Make sure to leave a 1/8" gap between trim and panel.
 5. Attach panel with Framing Fasteners per Fastening Pattern #1 shown on page B-1.

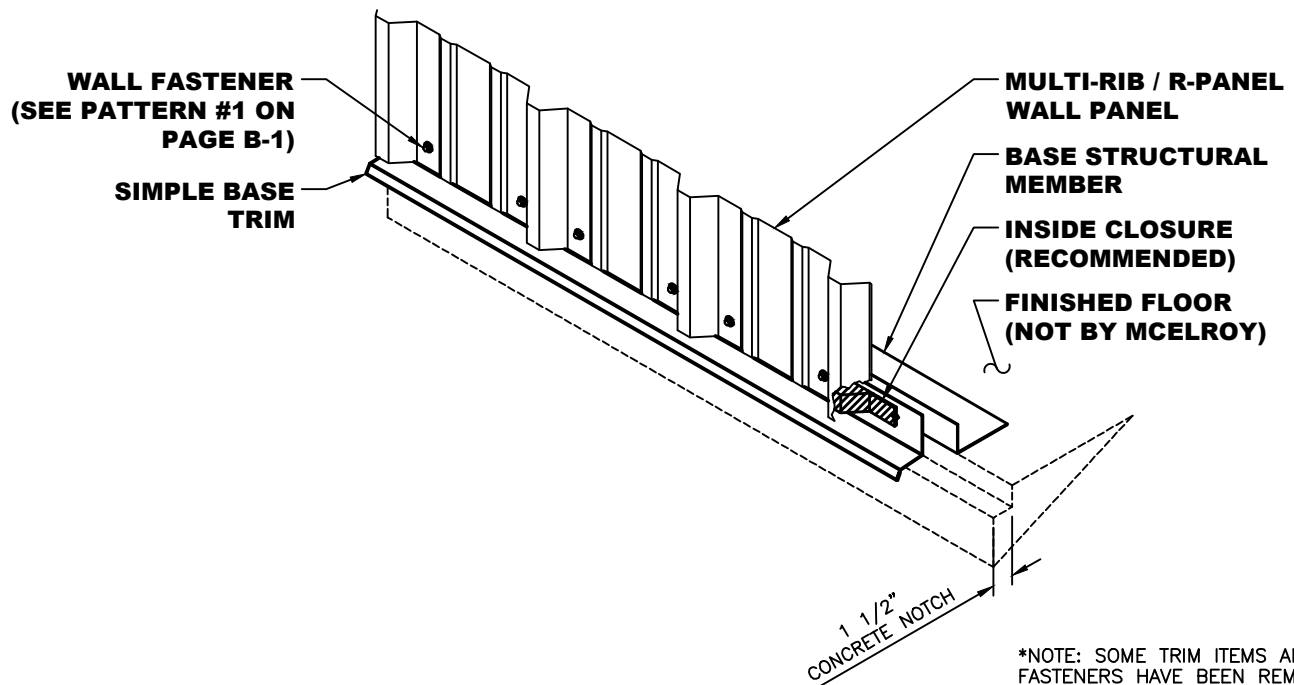


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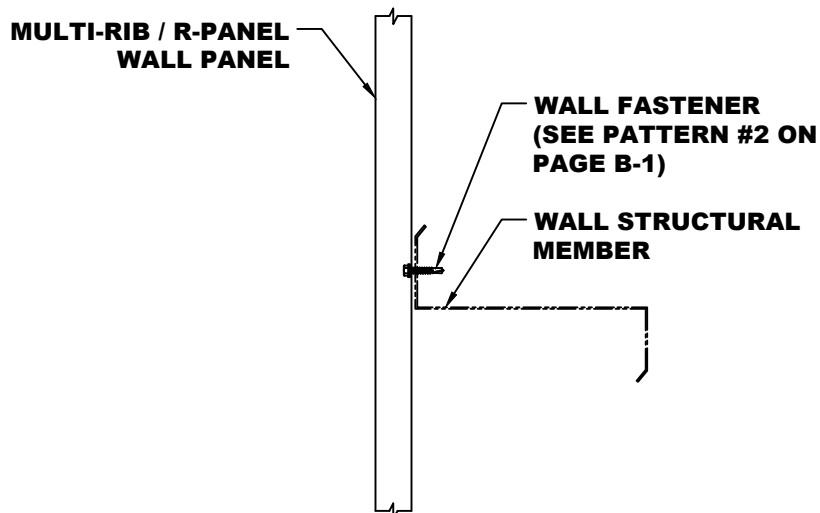
SIMPLE BASE DETAIL



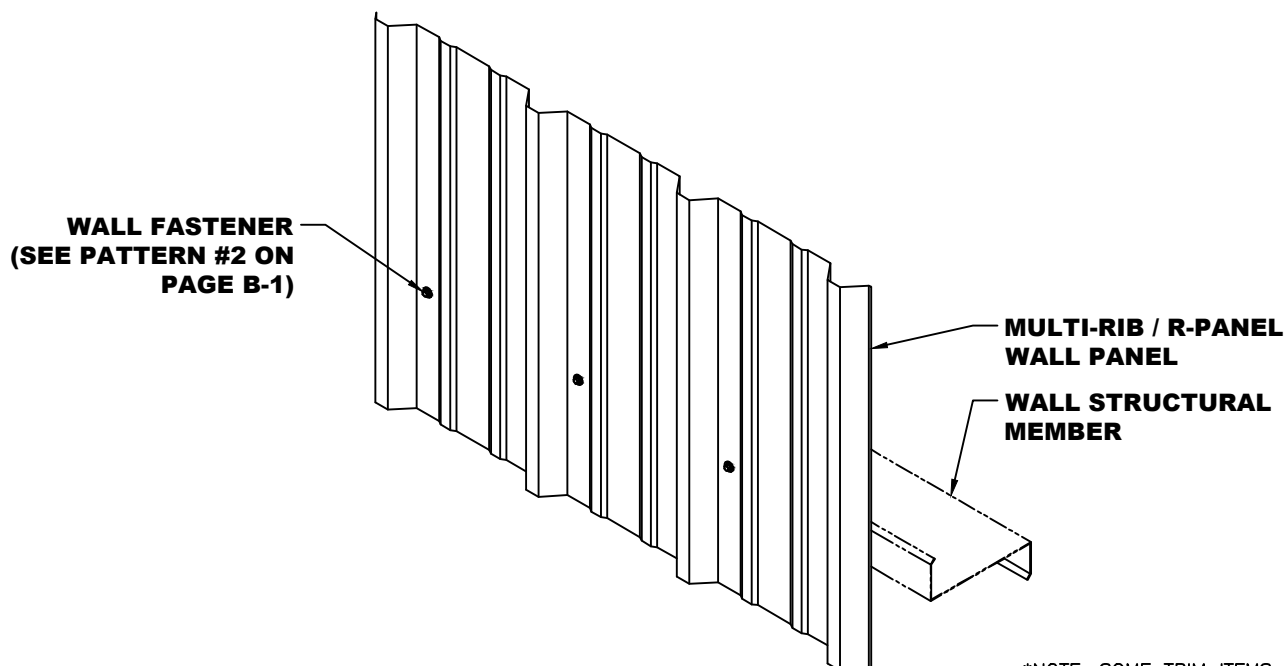
- NOTES:**
1. Base Structural Member set flush with edge of concrete notch.
 2. Set Simple Base Trim in concrete notch.
 3. Set Closure in position on Simple Base Trim.
 4. Set Multi-Rib / R-Panel Wall Panel into place. Make sure to leave a 1/8" gap between trim and panel.
 5. Attach panel with Framing Fasteners per Fastening Pattern #1 shown on page B-1.



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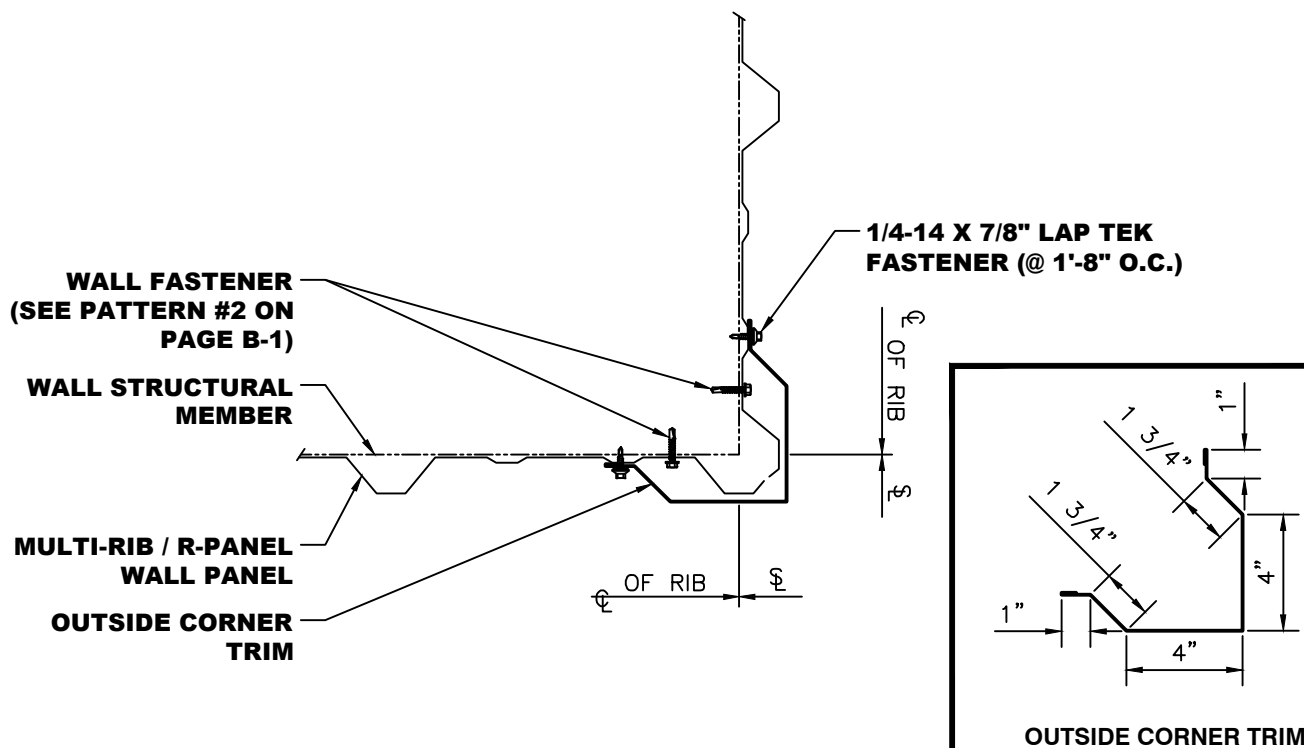


NOTES: 1. Attach Multi-Rib / R-Panel Wall panel to Wall Structural Member with Framing Fasteners using Fastener Pattern #2 as shown on page B-1.

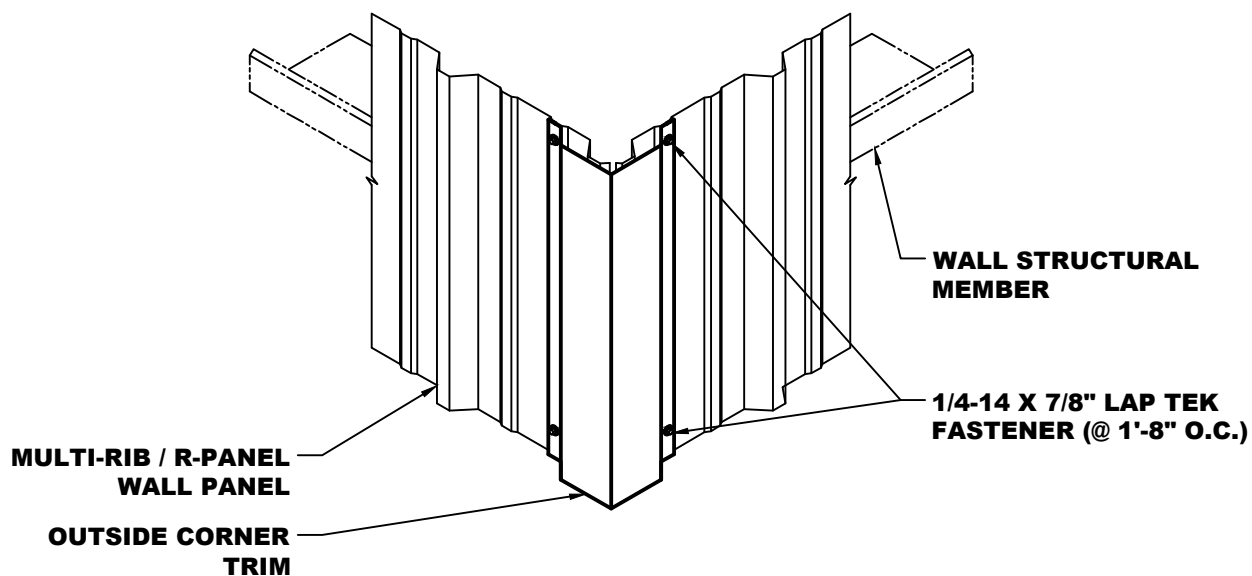


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OUTSIDE CORNER DETAIL

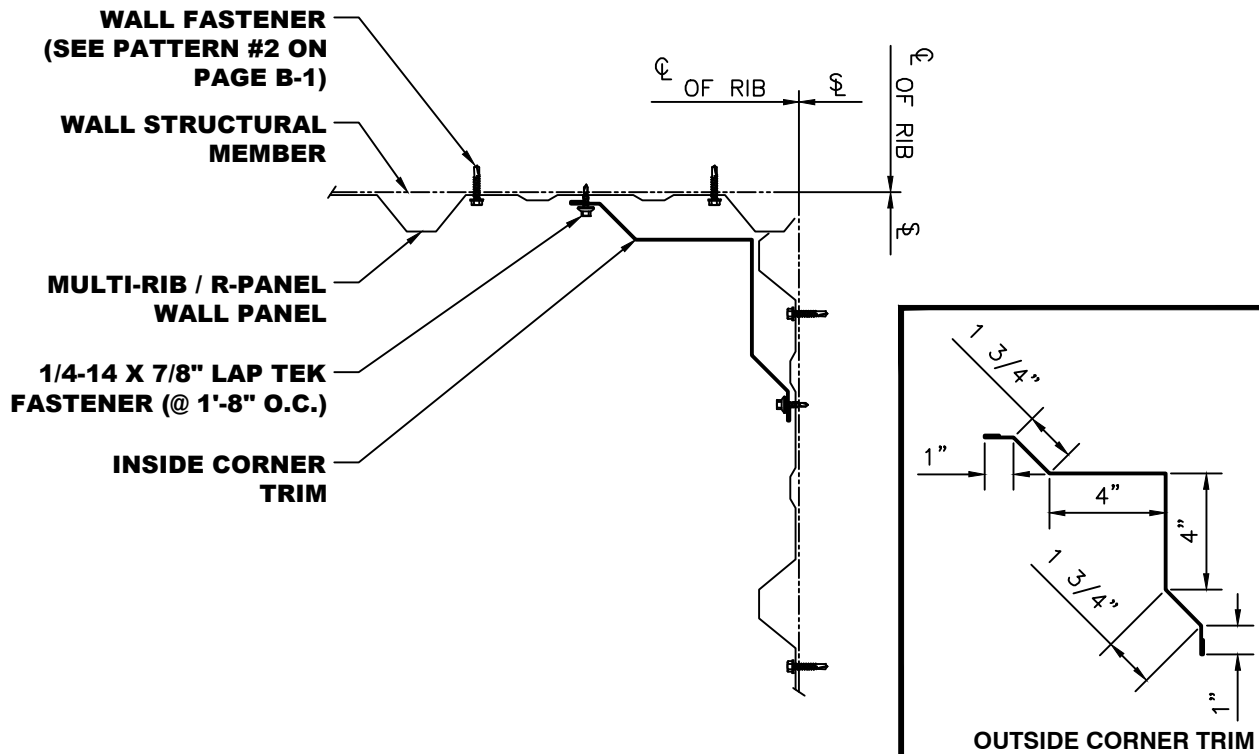


NOTES: 1. Attach Multi-Rib / R-Panel Wall panel to Wall Structural Member with Framing Fasteners using Fastener Pattern #2 as shown on page B-1.

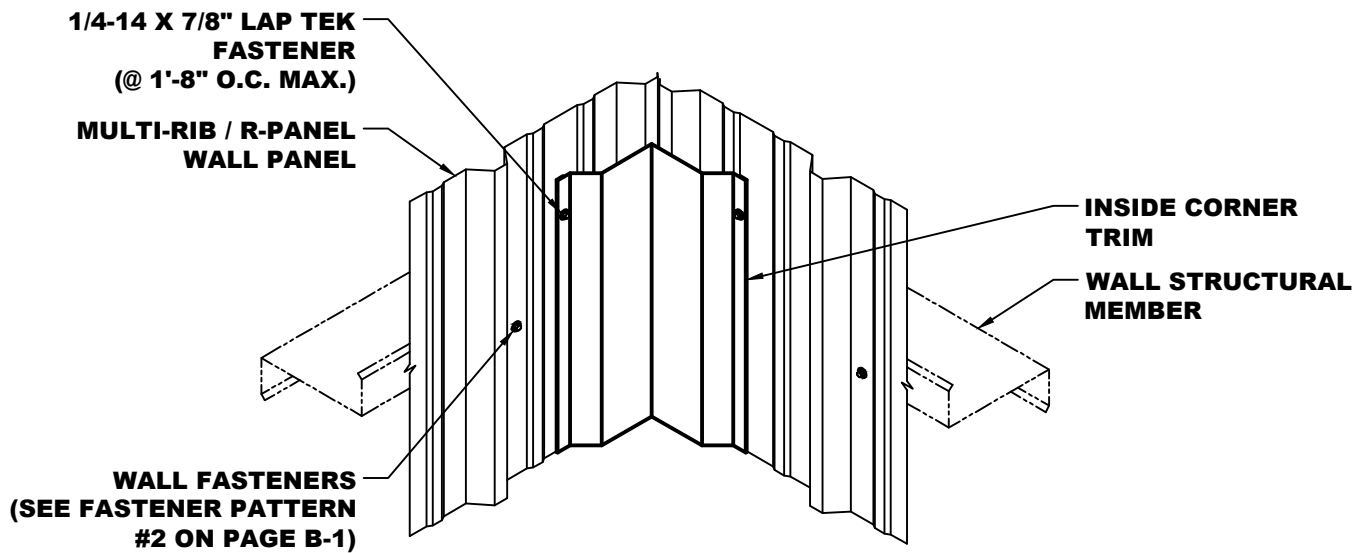


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

OUTSIDE CORNER DETAIL

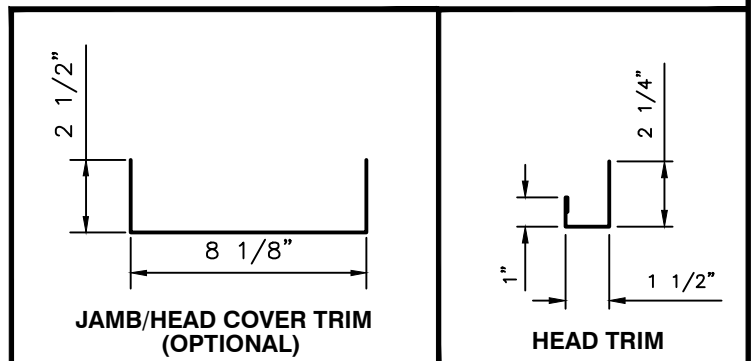
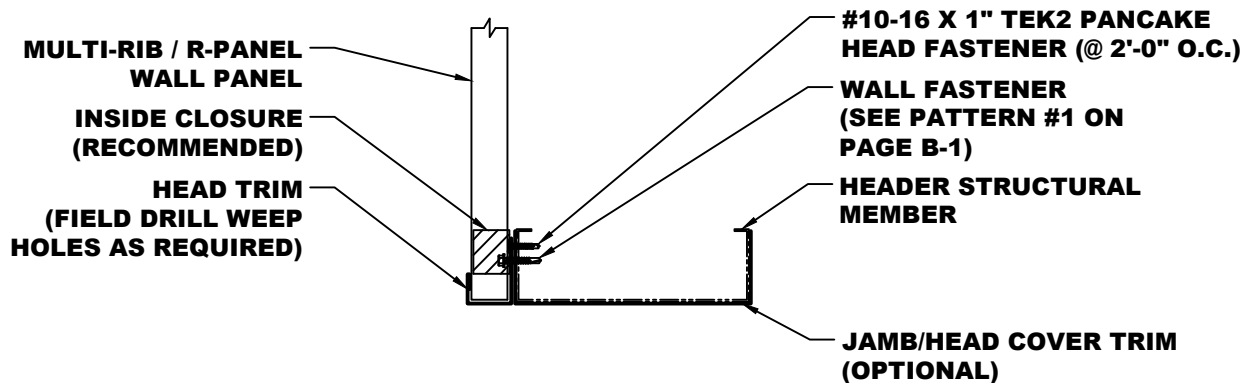


- NOTES:** 1. Attach Multi-Rib / R-Panel Wall panel to Wall Structural Member with Wall Fasteners using Fastener Pattern #2 as shown on page B-1.
2. Inside Corner Trim to run from Base Trim to top of wall.
3. Attach Inside Corner Trim to wall panel with 1/4-14 x 7/8" LapTek Faseners at 1'-8" O.C. (Max.).

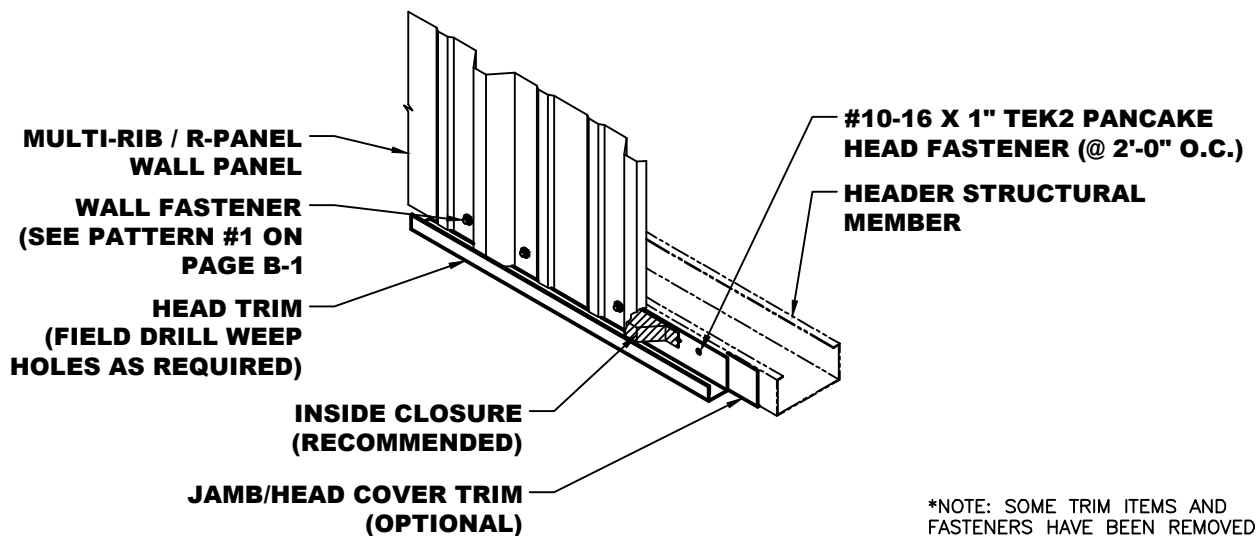


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

HEAD TRIM DETAIL

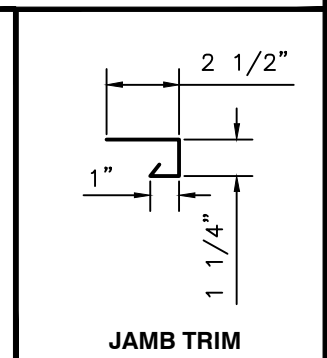
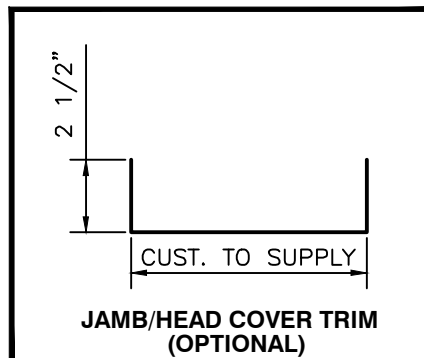
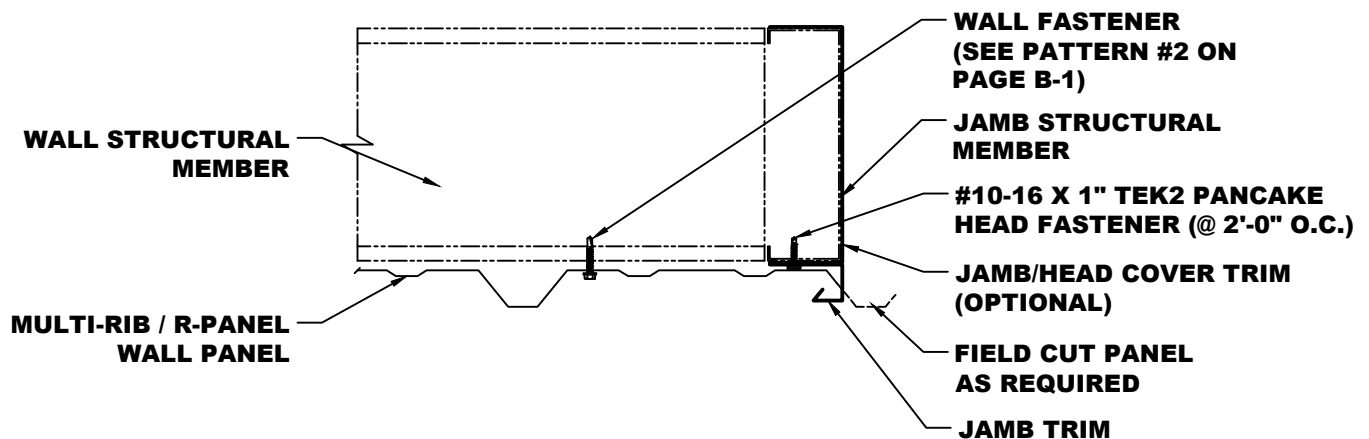


- NOTES:**
1. Attach Head Trim to Header using #10-16 x 1" TEK2 Pancake Head Fasteners every 2'-0" O.C.
 2. Set Inside Closure in position on Head Trim.
 3. Install Multi-Rib / R-Panel to Header Structural Member with Wall Fasteners using Fastener Pattern #1 on page B-1.

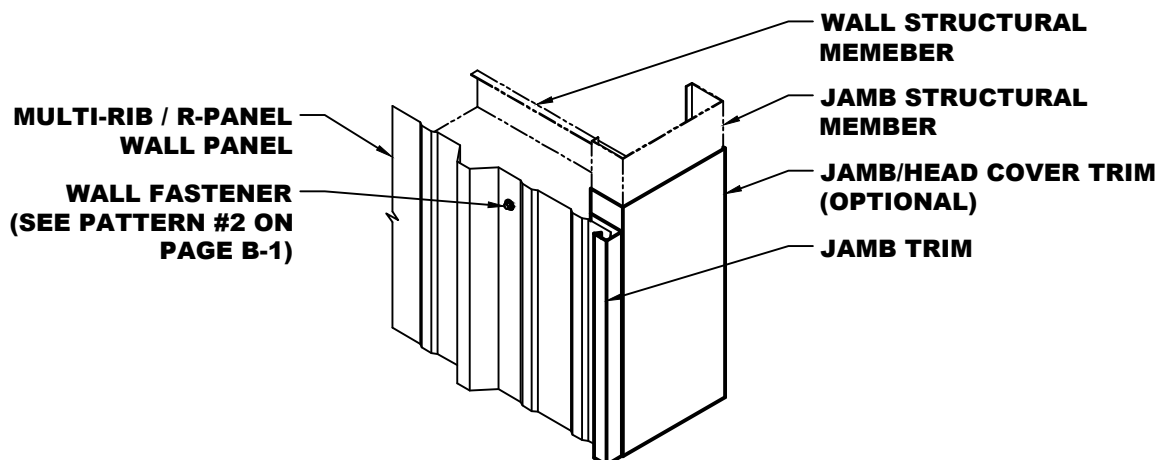


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JAMB TRIM DETAIL

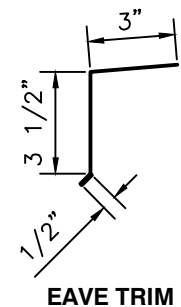
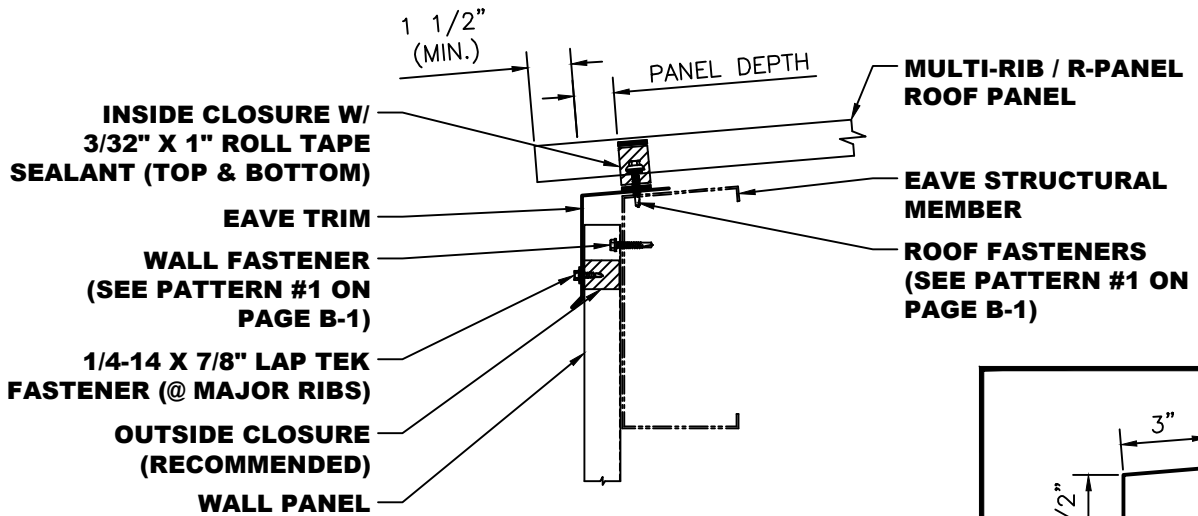


- NOTES:** 1. Attach Jamb Trim to Jamb Structural Member using #10-16 x 1" TEK2 Pancake Head Fasteners every 2'-0" O.C.
2. Install Multi-Rib / R-Panel to Wall Structural Member with Wall Fasteners using Fastener Pattern #2 on page B-1.

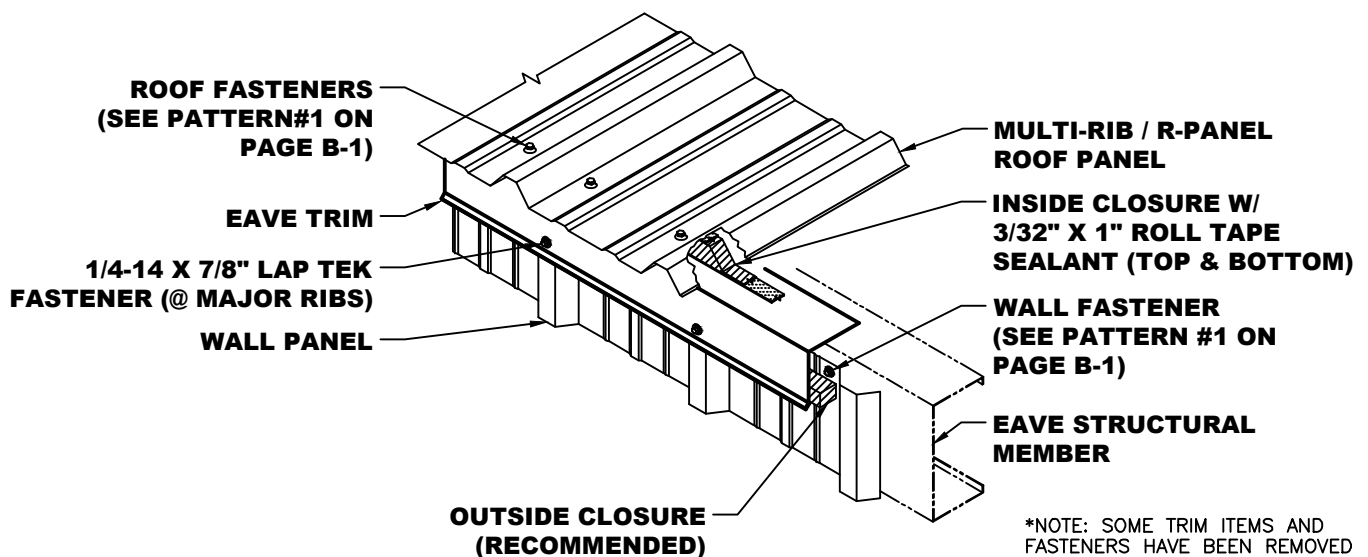


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

EAVE DETAIL

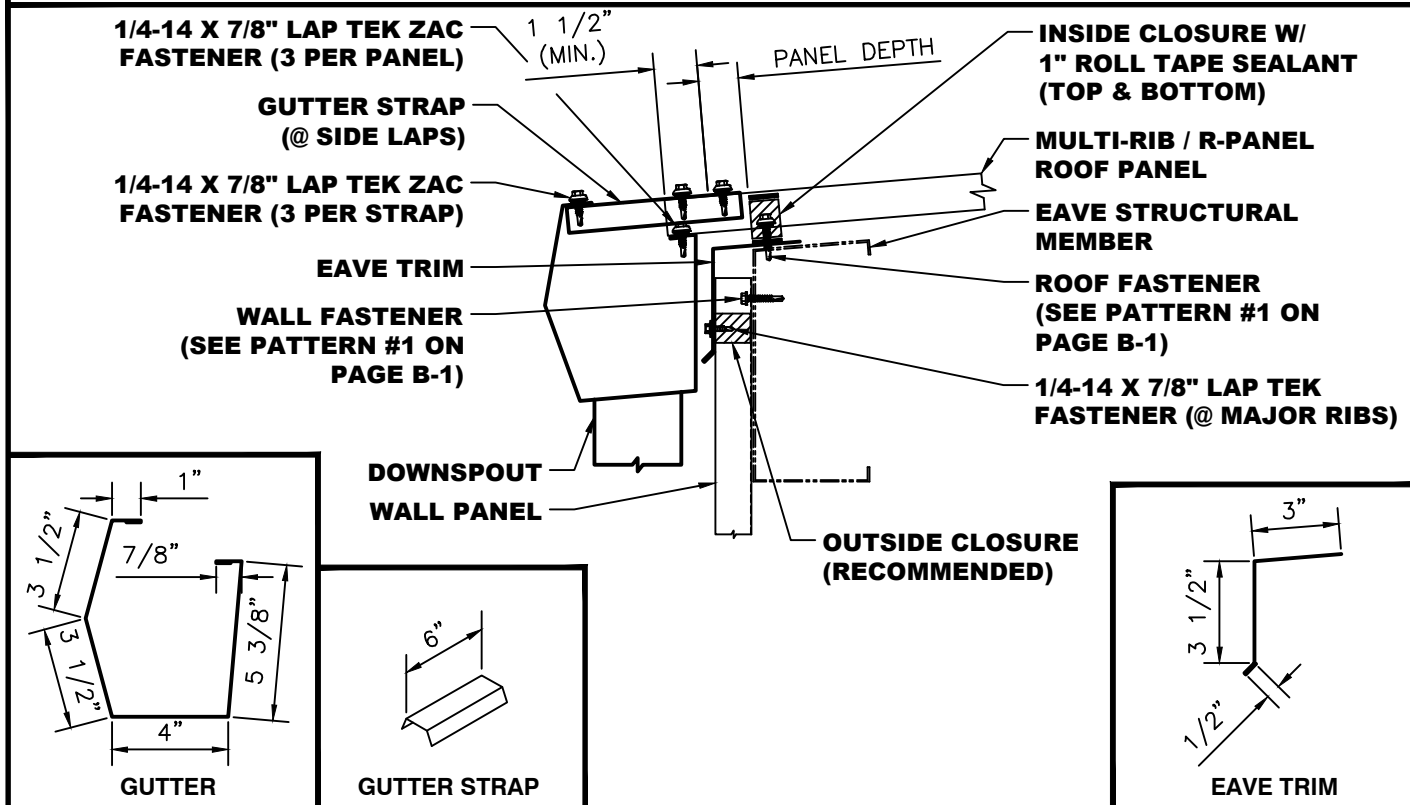


- NOTES:**
1. Attach Wall Panel to Eave Structural Member with Wall Fasteners using Fastener Pattern #1 on page B-1.
 2. Eave Trim to run from out of wall to out of wall.
 3. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape Sealant in trim laps and Pop Rivet trims as shown on page C-18.
 4. Attach Eave Trim to Wall Panel at major ribs with 1/4-14 x 7/8" Lap Tek Fasteners.
 5. Apply continuous run of 1" Butyl Tape Sealant on top of Eave Trim.
 6. Set Closures in tape and apply another continuous run of 1" Butyl Tape Sealant on top of closures.
 7. Attach Multi-Rib / R-Panel Roof Panels in place with Roof Fasteners. See Fastener Pattern #1 on page B-1.

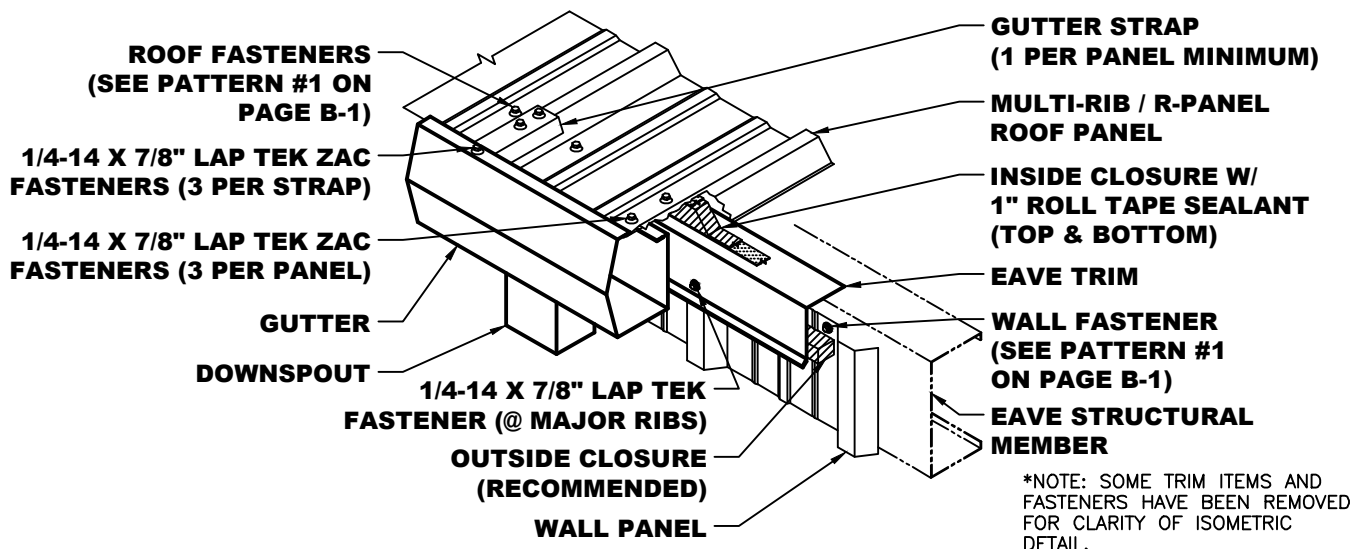


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

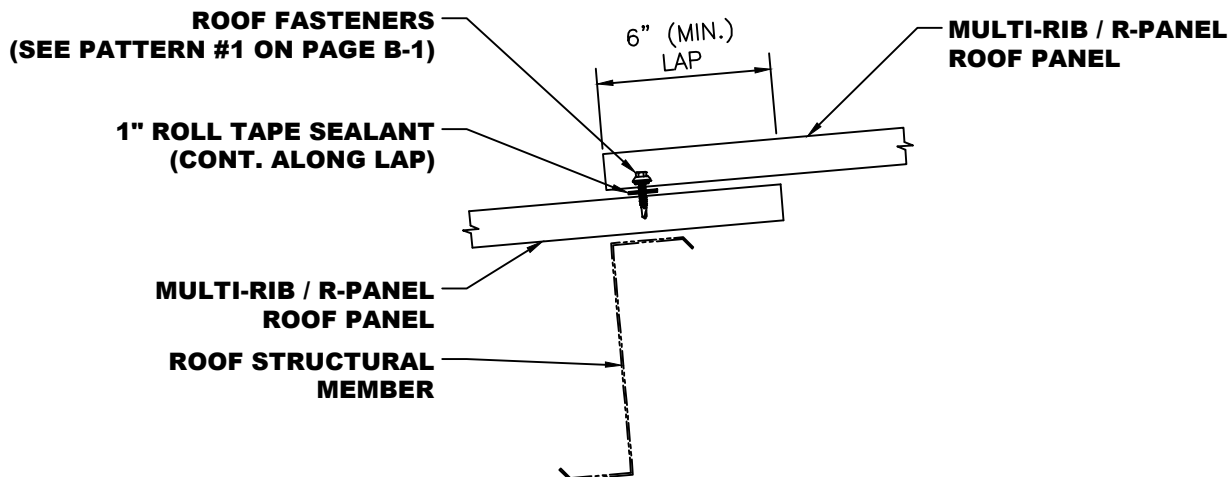
EAVE w/ GUTTER DETAIL



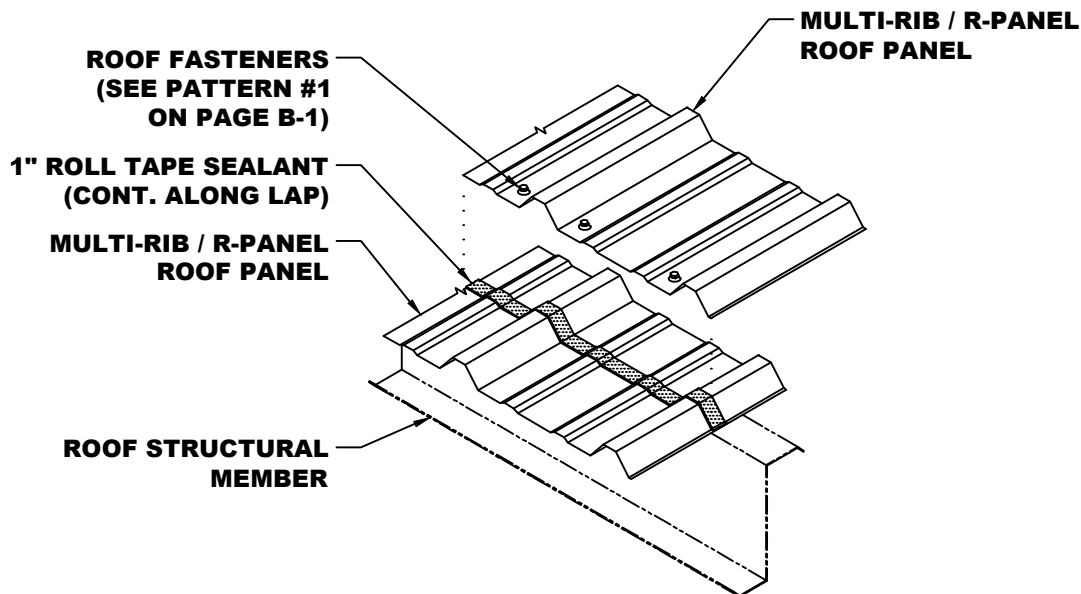
- NOTES:**
1. Attach Wall Panel to Eave Structural Member with Wall Fasteners using Fastener Pattern #1 on page B-1.
 2. Eave Trim and Gutter to run from out of wall to out of wall.
 3. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant at trim laps and Pop Rivet trims as shown on page C-18.
 4. Attach Eave Trim to wall panels at major ribs with 1/4-14 x 7/8" Lap Tek fasteners.
 5. Apply continuous run of 1" Roll Tape Sealant on top of Eave Trim.
 6. Set Inside Closures in tape and apply another continuous run of 1" Roll Tape Sealant on top of closures.
 7. Attach Multi-Rib / R-Panel Roof Panels with Roof Fasteners. See Fastener Pattern #1 on page B-1.
 8. Attach Gutter to roof panel with (1) 1/4-14 x 7/8" Lap Tek ZAC Fasteners. (3 per panel) Attach Gutter Straps to panel ribs with (2) 1/4-14 x 7/8" Lap Tek ZAC Fastener. Then attach Gutter to Gutter Strap with (1) 1/4-14 x 7/8" Lap Tek ZAC Fasteners.



ROOF PANEL LAP DETAIL

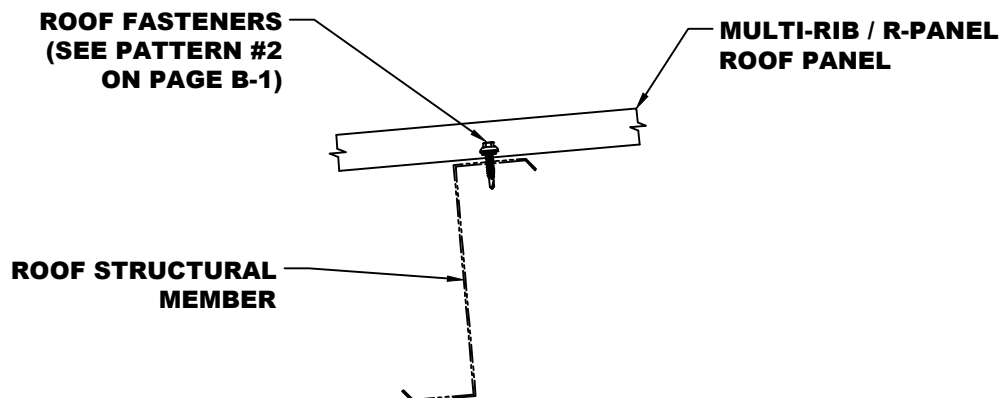


- NOTES:**
1. Extend lower Multi-Rib / R-Panel Roof Panel 6" past web of Roof Structural Member.
 2. Apply continuous run of 1" Roll Tape Sealant on top of lower Multi-Rib / R-Panel panel 5 3/4" down from end of panel.
 3. Install upper Multi-Rib / R-Panel panel and fasten with Roof Fasteners. See Fastener Pattern #1 on page B-1.

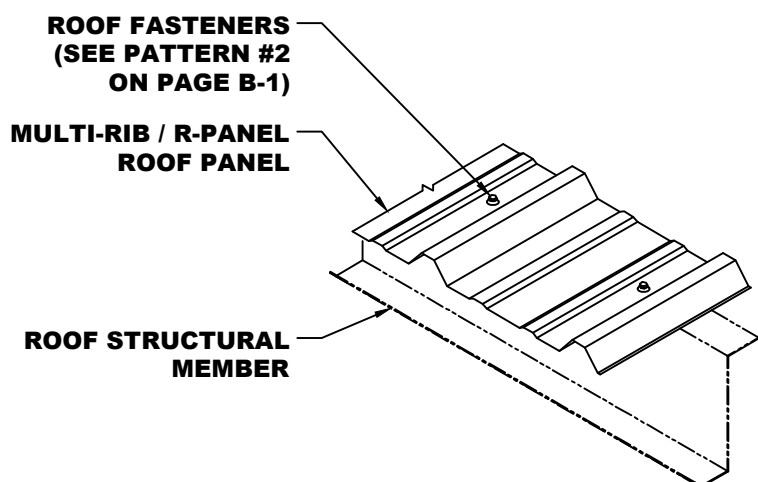


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

INTERMEDIATE PURLIN DETAIL

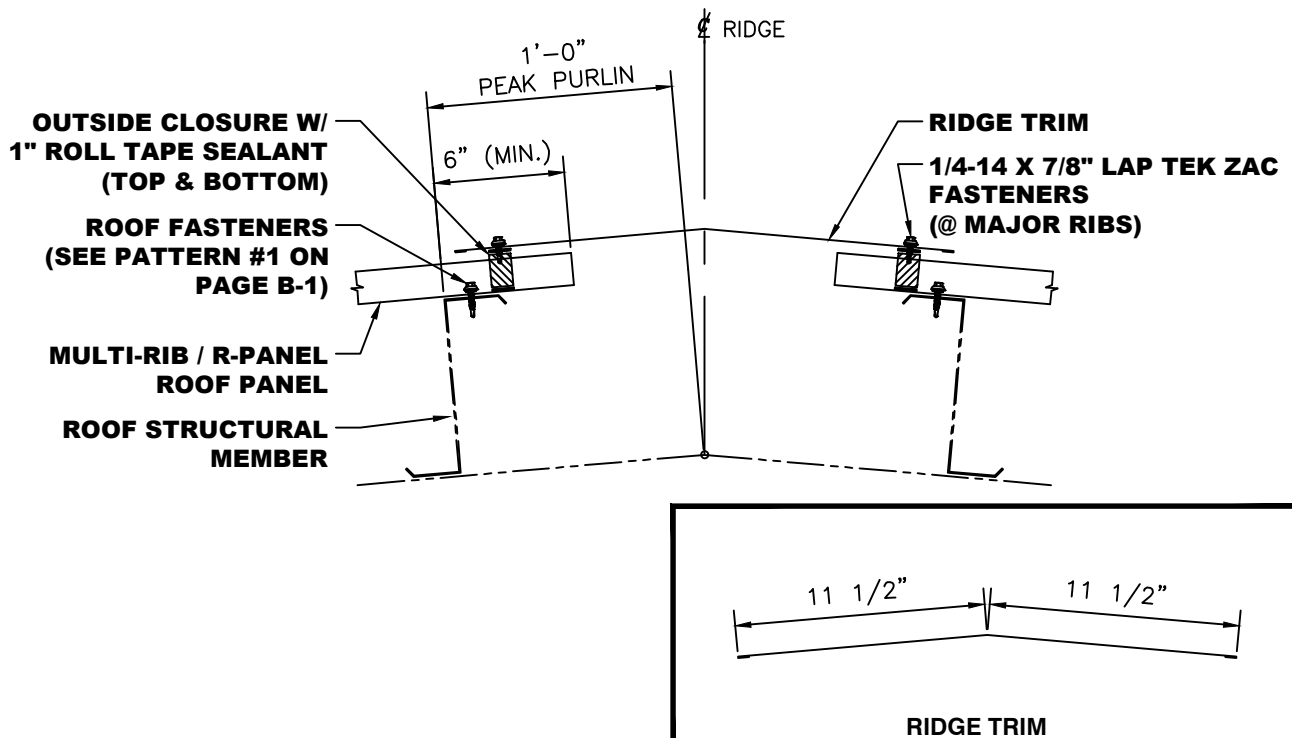


NOTES: 1. Attach Multi-Rib / R-Panel Roof Panels with Roof Fasteners. See Fastener Pattern #2 on page B-1.

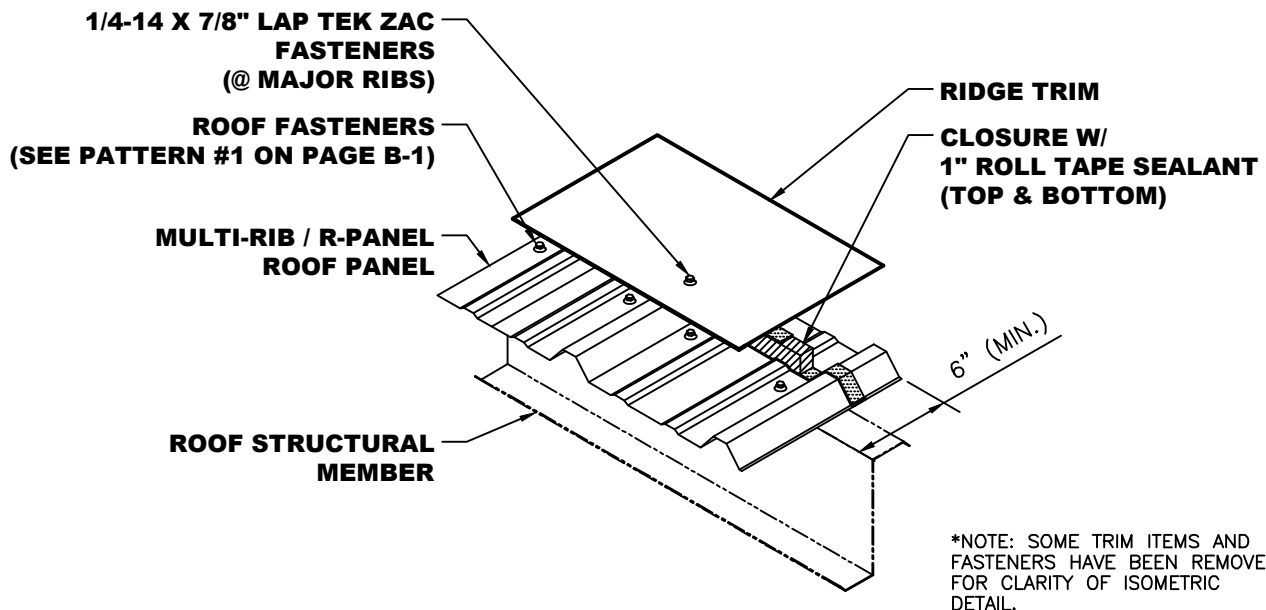


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

RIDGE DETAIL



- NOTES:**
1. Attach Multi-Rib / R-Panel Roof Panels with Roof Fasteners. See Fastener Pattern #1 on page B-1.
 2. Install a continuous line of 1" Butyl Tape Sealant above fasteners. Seat Outside Closures in tape sealant. Install another continuous line of 1" Tape Sealant on top of closures.
 3. Attach Ridge Trim to roof panels with 1/4-14 x 7/8" Lap Tek ZAC Fasteners at major ribs. Make sure fastener penetrates sealant.
 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 4" O.C.



RAKE DETAIL

**ROOF FASTENERS
(SEE PATTERN #2 ON
PAGE B-1)**

**1/4-14 X 1 1/4" HWH TEK2
FASTENER (@ EACH ROOF
STRUCTURAL MEMBER)**

RAKE ANGLE

**WALL FASTENER
(SEE PATTERN #1
ON PAGE PAGE B-1)**

RAKE TRIM

**1/4-14 X 7/8" LAP TEK
FASTENER W/ WASHER
(@ MAJOR RIB)**

**OUTSIDE CLOSURE
(RECOMMENDED)**

WALL PANEL

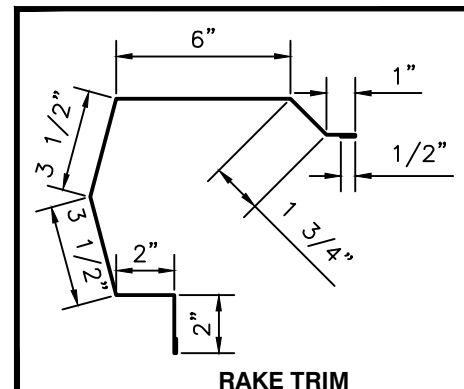
**ROOF STRUCTURAL
MEMBER**

$\frac{S}{2}$ OF RIB

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

**1" ROLL TAPE
SEALANT (CONT. ALONG
LENGTH OF RAKE)**

**MULTI-RIB / R-PANEL
ROOF PANEL**



RAKE TRIM

- NOTES:**
1. Attach Wall Panel to Rake Angle with Wall Fasteners using Fastener Pattern #1 on page B-1.
 2. Attach Multi-Rib / R-Panel Roof Panels in place with Roof Fasteners. See Fastener Pattern #2 on page B-1.
 3. Install a continuous line of 1" Butyl Tape Sealant where Rake Trim rest on roof panel.
 4. Attach Rake Trim to roof panels with 1/4-14 x 7/8" Lap Tek Fasteners at 1'-0" O.C. Make sure fastener penetrates sealant.
 5. Attach Rake Trim to Wall Panels with 1/4-14 x 7/8" Lap Tek Fasteners with Washer 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 1/4-14 x 7/8" Lap Tek ZAC Fasteners at 4" O.C.

**MULTI-RIB / R-PANEL
ROOF PANEL**

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

RAKE TRIM

WALL PANEL

**OUTSIDE CLOSURE
(RECOMMENDED)**

**WALL FASTENER
(SEE PATTERN #1
ON PAGE B-1)**

**1" ROLL TAPE
SEALANT (CONT. ALONG
RAKE)**

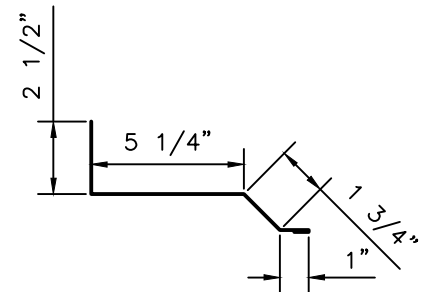
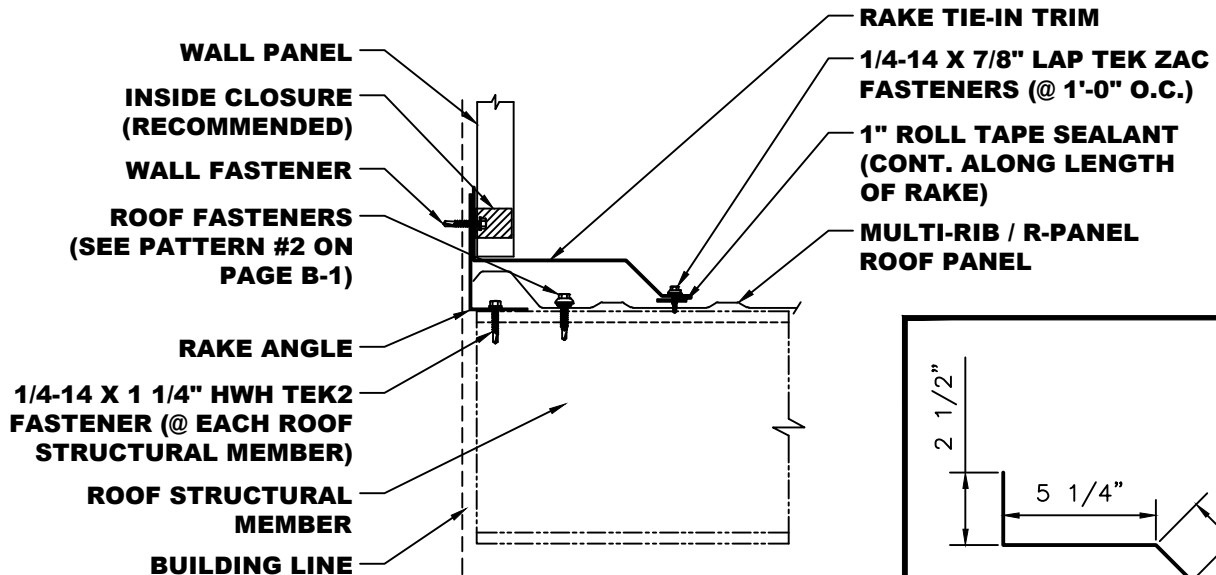
**ROOF FASTENERS
(SEE PATTERN #2 ON
PAGE B-1)**

**ROOF STRUCTURAL
MEMBER**

RAKE ANGLE

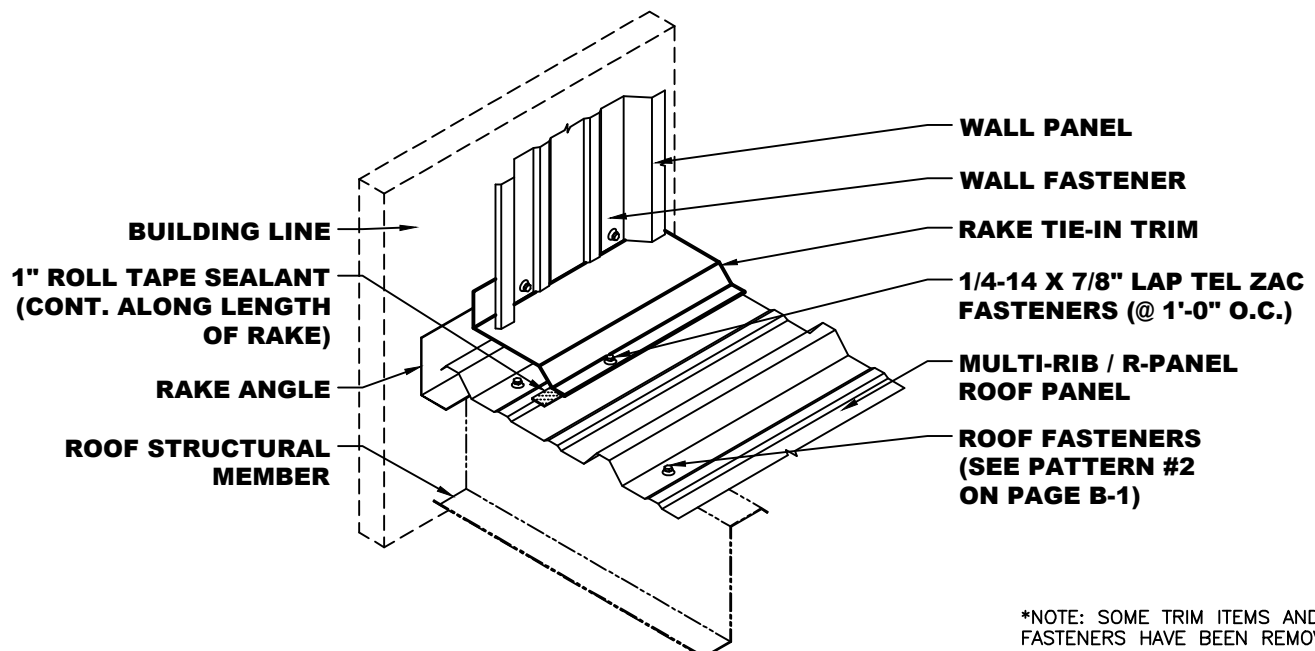
*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

RAKE TIE-IN DETAIL



RAKE TIE-IN TRIM

- NOTES:**
1. Attach Multi-Rib / R-Panel Roof Panels with Roof Fasteners. See Fastener Pattern #2 on page B-1.
 2. Install a continuous line of 1" Butyl Tape Sealant where Rake Tie-In Trim rest on roof panel.
 3. Attach Rake Trim to roof panels with 1/4-14 x 7/8" Lap Tek ZAC Fasteners at 1'-0" O.C. Make sure fastener penetrates sealant.
 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 4" O.C.



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

HIGH SIDE EAVE DETAIL

**OUTSIDE CLOSURE W/
1" ROLL TAPE SEALANT
(TOP & BOTTOM)**

**MULTI-RIB / R-PANEL
ROOF PANEL**

**EAVE STRUCTURAL
MEMBER**

**1/4-14 X 7/8" LAP TEK ZAC
FASTENERS (@ MAJOR RIBS)**

**ROOF FASTENERS
(SEE PATTERN #1
ON PAGE B-1)**

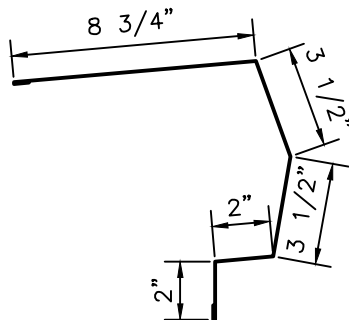
**HIGH SIDE
EAVE TRIM**

**WALL FASTENER
(SEE PATTERN #1
ON PAGE B-1)**

**1/4-14 X 7/8" LAP TEK
FASTENERS (@ MAJOR RIBS)**

**OUTSIDE CLOSURE
(RECOMMENDED)**

WALL PANEL



HIGH SIDE EAVE TRIM

- NOTES:**
1. Attach Multi-Rib / R-Panel Roof Panels with Roof Fasteners. See Fastener Pattern #1 on page B-1.
 2. Install a continuous line of 1" Butyl Tape Sealant below fasteners. Seat Outside Closures in tape sealant. Install another continuous line of 1" Tape Sealant on top of closures.
 3. Attach High Side Eave Trim to roof panels with 1/4-14 x 7/8" Lap Tek ZAC Fasteners at major ribs. Make sure fastener penetrates sealant.
 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 4" O.C.

**1/4-14 X 7/8" LAP TEK ZAC
FASTENERS (@ MAJOR RIBS)**

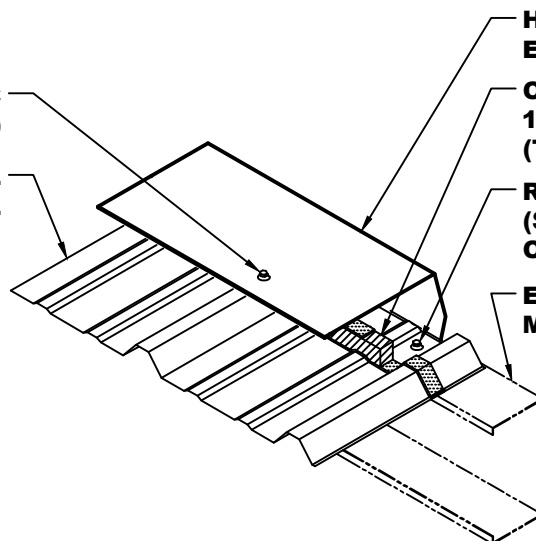
**MULTI-RIB / R-PANEL
ROOF PANEL**

**HIGH SIDE
EAVE TRIM**

**OUTSIDE CLOSURE W/
1" ROLL TAPE SEALANT
(TOP & BOTTOM)**

**ROOF FASTENERS
(SEE PATTERN #1
ON PAGE B-1)**

**EAVE STRUCTURAL
MEMBER**



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

HIGH SIDE TIE-IN DETAIL

**1/4-14 X 7/8" LAP TEK ZAC
FASTENER (@ MAJOR RIBS)**

HIGH SIDE TIE-IN TRIM

**OUTSIDE CLOSURE W/
1" ROLL TAPE SEALANT
(TOP & BOTTOM)**

**MULTI-RIB / R-PANEL
ROOF PANEL**

**ROOF STRUCTURAL
MEMBER**

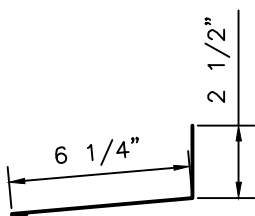
WALL PANEL

WALL FASTENER

**WALL STRUCTURAL
MEMBER**

**INSIDE CLOSURE
(RECOMMENDED)**

**ROOF FASTENER
(SEE PATTERN #1 ON
PAGE B-1)**



HIGH SIDE TIE-IN TRIM

- NOTES:**
1. Attach Multi-Rib / R-Panel Roof Panels with Roof Fasteners. See Fastener Pattern #1 on page B-1.
 2. Install a continuous line of 1" Butyl Tape Sealant. Seat Outside Closures in tape sealant. Install another continuous line of 1" Tape Sealant on top of closures.
 3. Attach High Side Tie-In Trim to roof panels with 1/4-14 x 7/8" Lap Tek Fasteners at major ribs. Make sure fastener penetrates sealant.
 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 Fasteners at 4" O.C.

WALL PANEL

WALL FASTENER

**1/4-14 X 7/8" LAP TEK ZAC
FASTENER (@ MAJOR RIBS)**

**MULTI-RIB / R-PANEL
ROOF PANEL**

**ROOF FASTENERS
(SEE PATTERN #1 ON
PAGE B-1)**

HIGH SIDE TIE-IN TRIM

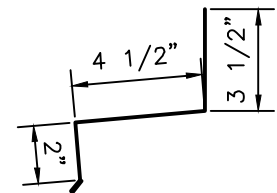
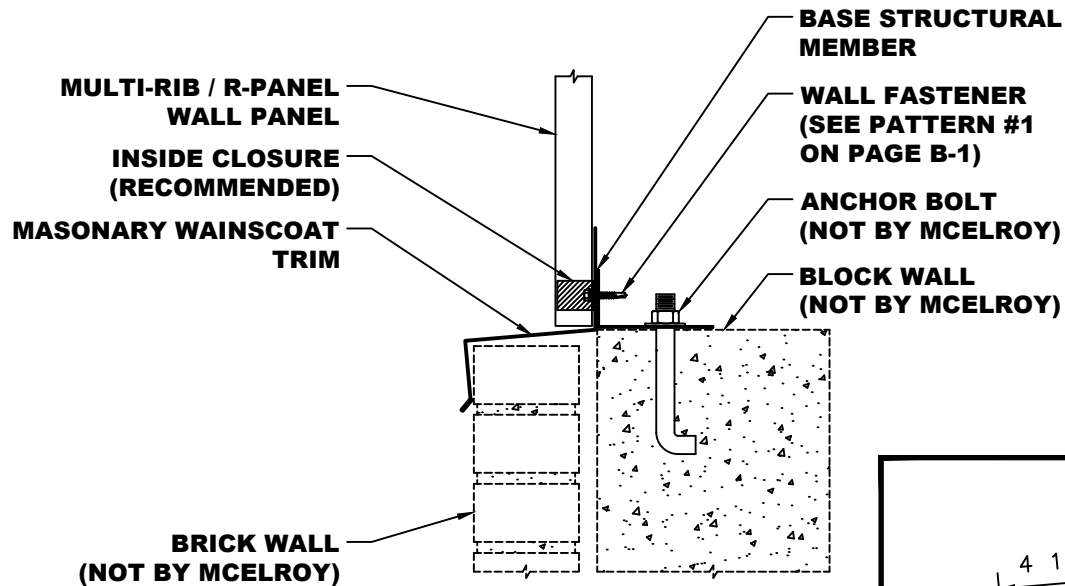
**OUTSIDE CLOSURE W/
1" ROLL TAPE SEALANT
(TOP & BOTTOM)**

**WALL STRUCTURAL
MEMBER**

**EAVE STRUCTURAL
MEMBER**

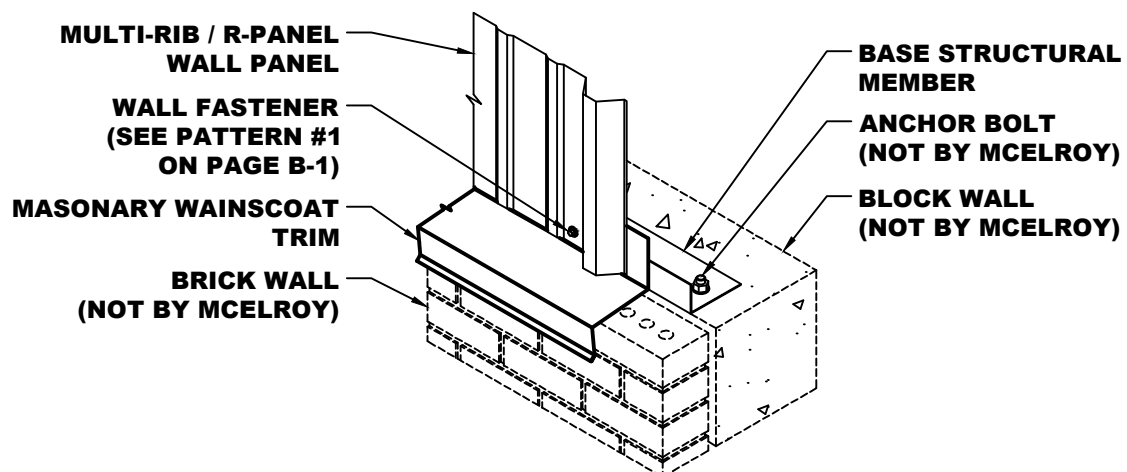
*NOTE: SOME TRIM ITEMS AND
FASTENERS HAVE BEEN REMOVED
FOR CLARITY OF ISOMETRIC
DETAIL.

MASONRY WAINSCOAT DETAIL



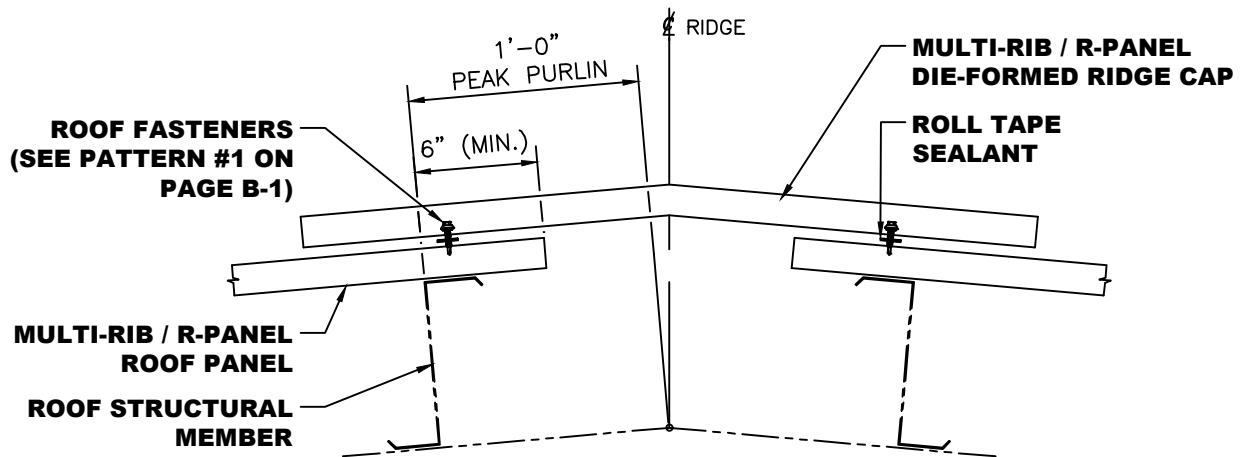
MASONRY WAINSCOAT TRIM

- NOTES:** 1. Attach Masonry Wainscoat Trim to Base Structural Member with Temporary Framing Fasteners.
2. Set Inside Closure in place.
3. Attach Multi-Rib / R-Panel Wall Panels with Wall Fasteners. See Fastener Pattern #1 on page B-1.

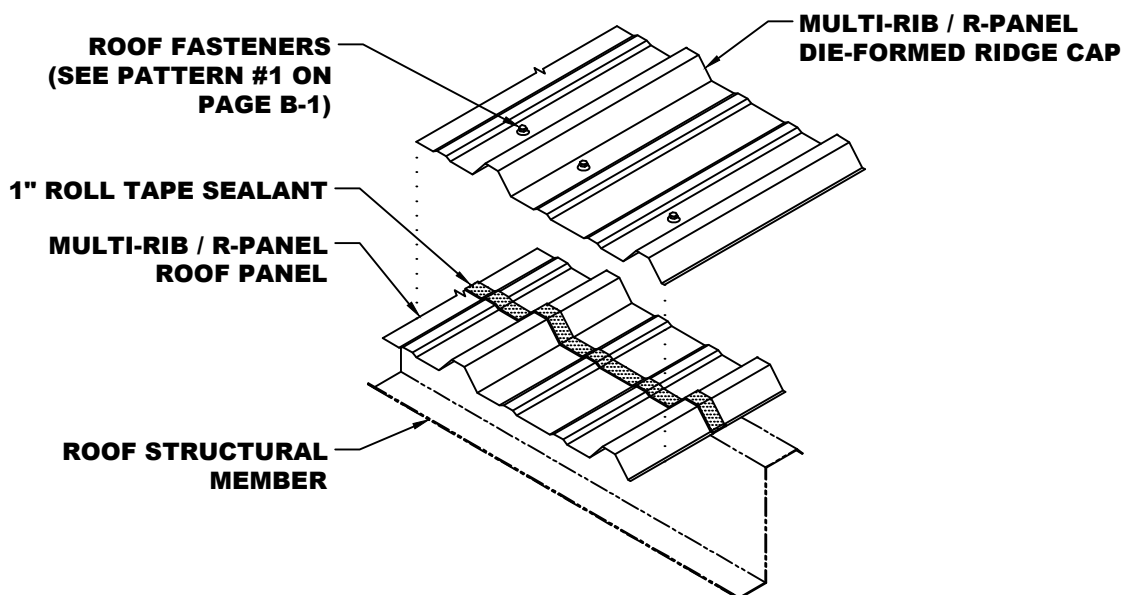


*NOTE: SOME TRIM ITEMS AND FASTENERS HAVE BEEN REMOVED FOR CLARITY OF ISOMETRIC DETAIL.

DIE-FORMED RIDGE CAP DETAIL

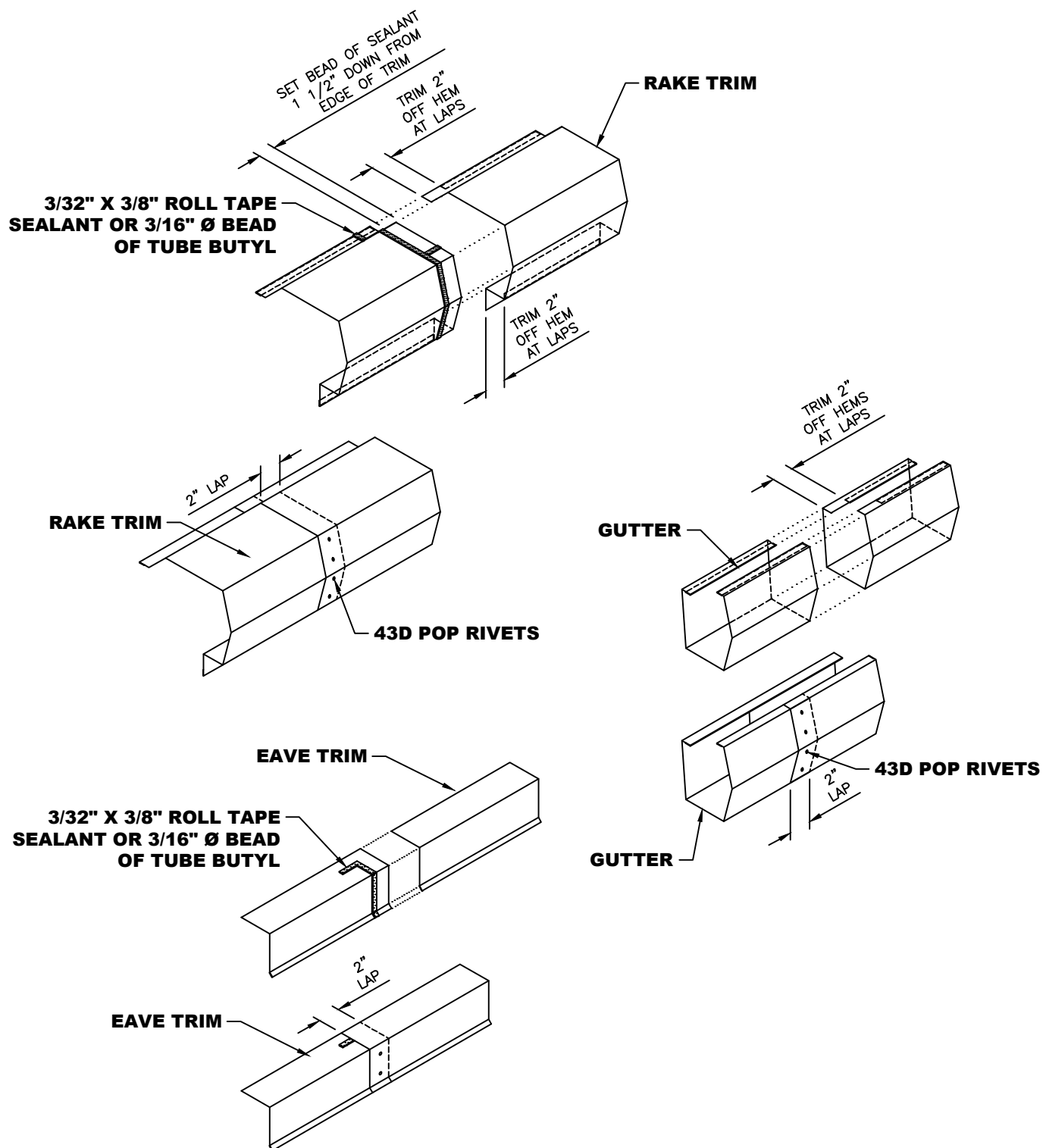


- NOTES:** 1. Install a continuous line of 1" Butyl Tape Sealant along Ridge.
 2. Attach Multi-Rib / R-Panel Die-Formed Ridge Cap using Roof Fasteners.
 See Fastener Pattern #1 on page B-1. (Make sure fasteners penetrate Butyl Tape Sealant.)



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

TYPICAL TRIM LAP DETAIL



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.



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Website: www.mcelroymetal.com • E-mail: info@mcelroymetal.com