INSTRAILLATION





TABLE OF CONTENTS

PAGE NUMBER:	DETAIL DESCRIPTION
A-1	TABLE OF CONTENTS
A-2	GENERAL NOTES
B-1	EAVE AND VALLEY FASTENER PATTERNS
C-1	FIXED EAVE DETAIL
C-2	FLOATING EAVE DETAIL
C-3 & C-4	FIXED EAVE with GUTTER DETAIL
C-5	FLOATING EAVE with GUTTER DETAIL
C-6	RAKE DETAIL
	RAKE (OFF MODULE) DETAIL
C-8	RAKE TIE-IN DETAIL
C-9	RAKE TIE-IN (OFF MODULE) DETAIL
	FIXED RIDGE DETAIL
C-12 & C-13	FLOATING RIDGE DETAIL
C-14	FIXED HIGH SIDE TIE-IN DETAIL
C-15	FLOATING HIGH SIDE TIE-IN DETAIL
C-16	HIGH EAVE DETAIL
C-17	DEKTITE DETAIL
C-18 thru C-22	ROOF CURB INSTALLATION STEPS
C-23 & C-24	TYPICAL TRIM LAP DETAILS



GENERAL NOTES

The details shown on the following pages are suggestions or guidelines for installing the Trap-Tee 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.

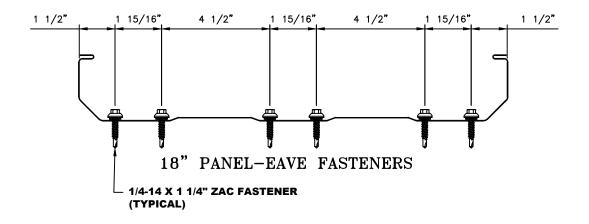
Some field cutting and fitting of panels and flashings is to be expected and to be considered a part of normal installation work. Workmanship shall be of the best industry standards and with installation performed by experienced metal craftsmen.

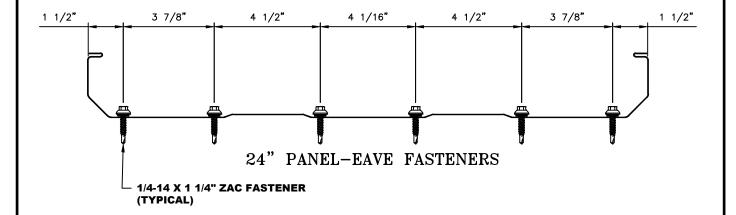
Oil canning of metal panels is in the product and is not a cause for rejection. Striated panels are recommended as the reduce the appearance of oil canning.

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.



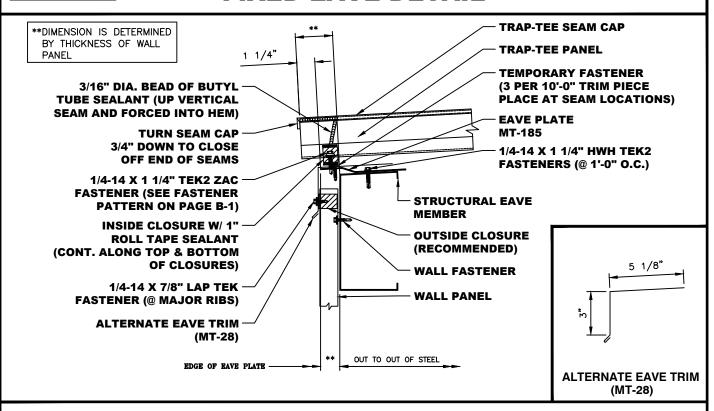
EAVE FASTENER PATTERN



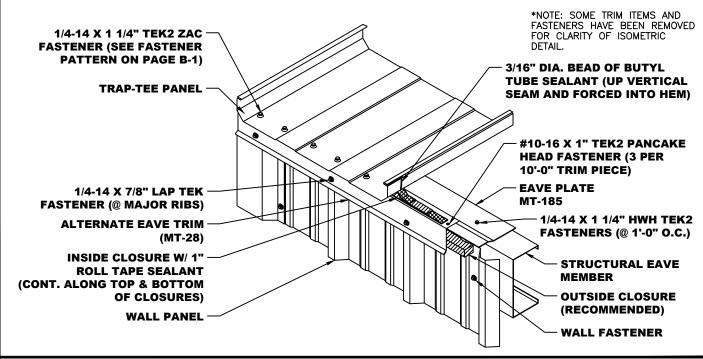




FIXED EAVE DETAIL

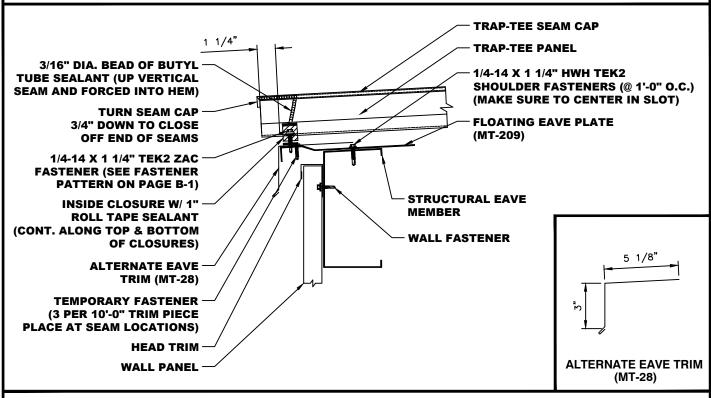


- NOTES: 1. Eave Plate to run from steel line to steel line.
 - 2. Alternate Eave Trim (MT-28) to run from out of wall to out of wall.
 - 3. Attach Alternate Eave Trim (MT-28) to Eave Plate with temporary fasteners. Attach to wall panel at major ribs with $1/4-14 \times 7/8$ " Lap Tek fasteners.
 - 4. 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-17.
 - 5. Apply continuous run of 3/32" x 1" Roll Tape Sealant on top of Simple Eave Trim. Install Inside Closures on top of Tape Sealant, then apply a continuous bead of 3/32" x 1" Roll Tape Sealant to the top of Inside Closures.
 - 6. Install Trap-Tee Panels with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners as shown on page B-1.

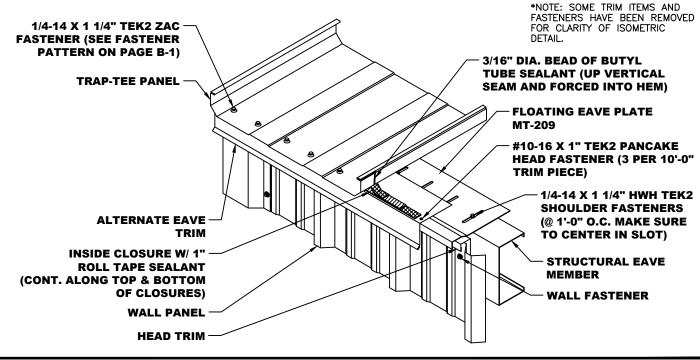




FLOATING EAVE DETAIL



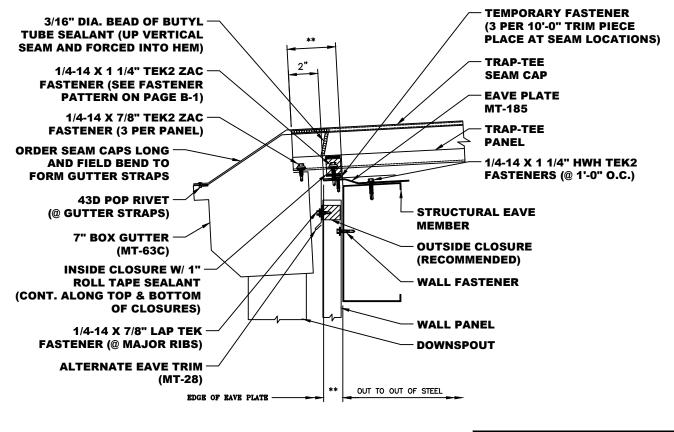
- NOTES: 1. Floating Eave Plate to run from steel line to steel line.
 - 2. Alternate Eave Trim to run from out of wall to out of wall.
 - 3. Attach Alternate Eave Trim to Floating Eave Plate with temporary fasteners. Attach to wall panel at major ribs with $1/4-14 \times 7/8$ " Lap Tek fasteners.
 - 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-17.
 - 5. Apply continuous run of 3/32" x 1" Roll Tape Sealant on top of Alternate Eave Trim. Install Inside Closures on top of Tape Sealant, then apply a continuous bead of 3/32" x 1" Roll Tape Sealant to the top of Inside Closures.
 - 6. Install Trap-Tee Panels with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners as shown on page B-1.

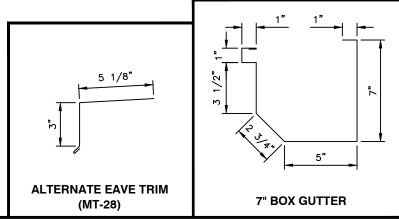




FIXED EAVE DETAIL w/ GUTTER

**DIMENSION IS DETERMINED BY THICKNESS OF WALL PANEL

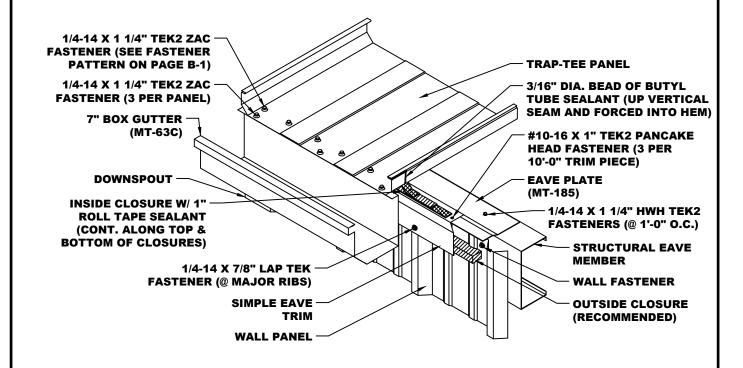


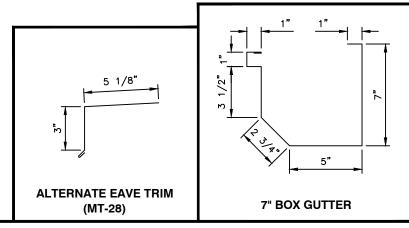


- NOTES: 1. Eave Plate to run from steel line to steel line.
 - 2. Alternate Eave Trim (MT-28) to run from out of wall to out of wall.
 - 3. Attach Alternate Eave Trim (MT-28) to Eave Plate (MT-185) with temporary fasteners. Attach to wall panels major ribs with 1/4- $14 \times 7/8$ " Lap Tek fasteners.
 - 4. Trim pieces and Gutter 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-17.
 - 5. Apply continuous run of 3/32" x 1" Roll Tape Sealant on top of Alternate Eave Trim. Install Inside Closures on top of Tape Sealant, then apply a continuous bead of 3/32" x 1" Roll Tape Sealant to the top of Inside Closures.
 - 6. Install Trap-Tee Panels with $1/4-14 \times 1 \cdot 1/4$ " Tek2 ZAC Fasteners as shown on page B-1.



TRAP-TEE FIXED EAVE DETAIL w/ GUTTER (CONT.)

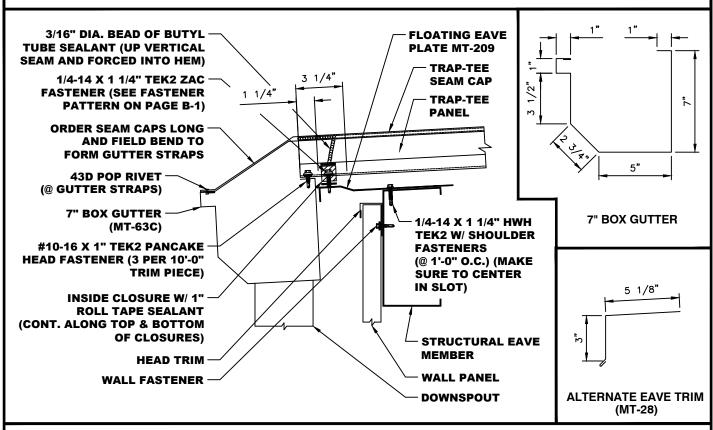




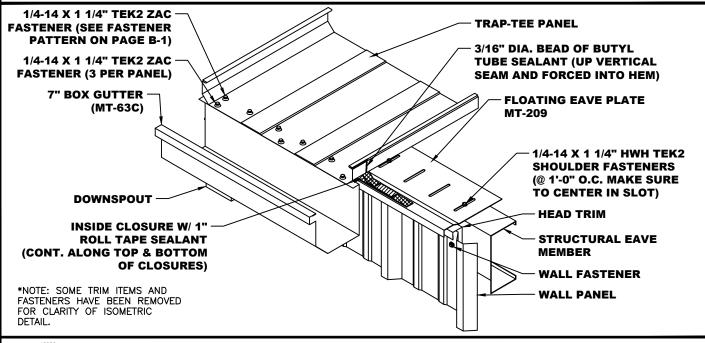
- NOTES: 1. Eave Plate to run from steel line to steel line.
 - 2. Alternate Eave Trim (MT-28) to run from out of wall to out of wall.
 - 3. Attach Alternate Eave Trim (MT-28) to Eave Plate (MT-185) with temporary fasteners. Attach to wall panels major ribs with 1/4-14 x 7/8" Lap Tek fasteners.
 - 4. Trim pieces and Gutter 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-17.
 - 5. Apply continuous run of 3/32" x 1" Roll Tape Sealant on top of Alternate Eave Trim. Install Inside Closures on top of Tape Sealant, then apply a continuous bead of 3/32" x 1" Roll Tape Sealant to the top of Inside Closures.
 - 6. Install Trap-Tee Panels with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners as shown on page B-1.



FLOATING EAVE DETAIL w/ GUTTER

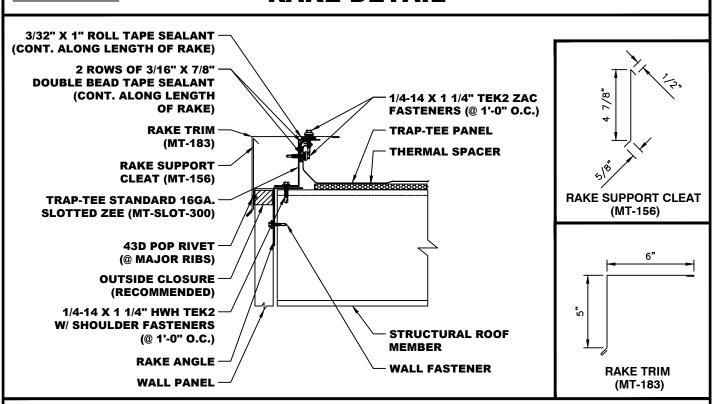


- NOTES: 1. Floating Eave Plate to run from steel line to steel line.
 - 2. Alternate Eave Trim to run from out of wall to out of wall.
 - 3. Attach Alternate Eave Trim to Floating Eave Plate with temporary fasteners. Attach to wall panel at major ribs with 1/4- $14 \times 7/8$ " Lap Tek fasteners.
 - 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-17.
 - 5. Apply continuous run of 3/32" x 1" Roll Tape Sealant on top of Alternate Eave Trim. Install Inside Closures on top of Tape Sealant, then apply a continuous bead of 3/32" x 1" Roll Tape Sealant to the top of Inside Closures.
 - 6. Install Trap-Tee Panels with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners as shown on page B-1.

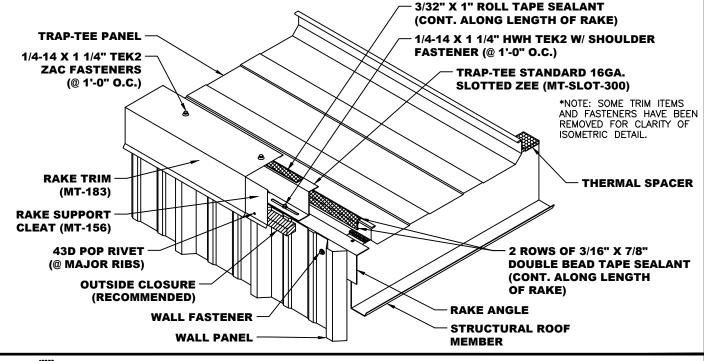




RAKE DETAIL

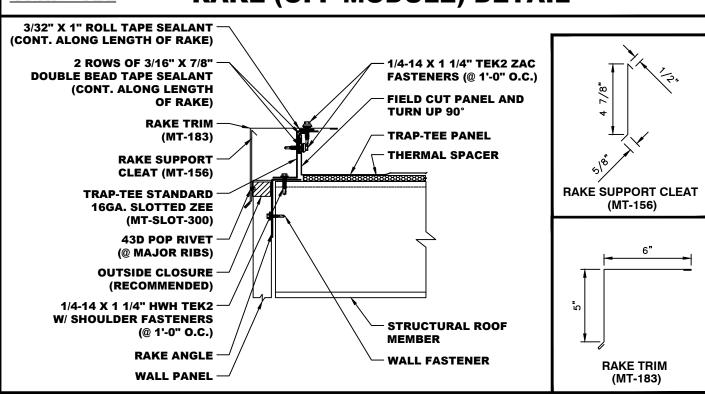


- NOTES: 1. MT-183 (Rake Trim), MT-156 (Rake Support Cleat) and MT-SLOT-300 (Trap-Tee Standard 16ga. Slotted Zee) to run from eave to ridge.
 - 2. Attach MT-ŚLOT-300 (Trap-Tee Standard 16ga. Slotted Zee) to decking with 1/4-14 x 1 1/4" HWH Tek2 with Shoulder Fasteners at 1'-0" O.C.
 - 3. Apply two (2) continuous beads of 3/16" x 7/8" Double Bead Tape Sealant to the vertical leg of the Trap-Tee panel. Install Trap Tee panel and hold in place on the Slotted Zee with clamps. Fasten panel to Slotted Zee with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 4. Apply a continuous bead of 3/32" x 1" Roll Tape Sealant to the top of the Starter Zee and attach MT-183 (Rake Trim) with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant in trim laps and Fasten to

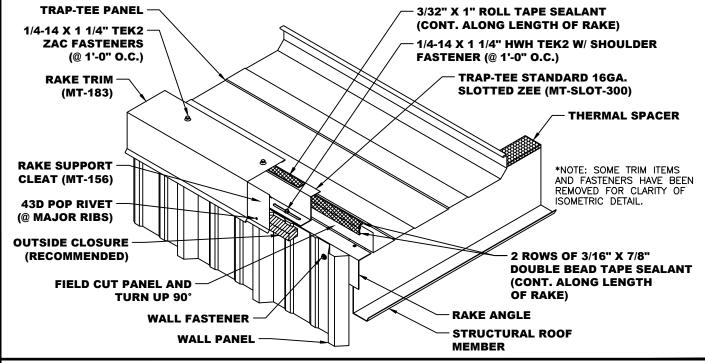




RAKE (OFF MODULE) DETAIL

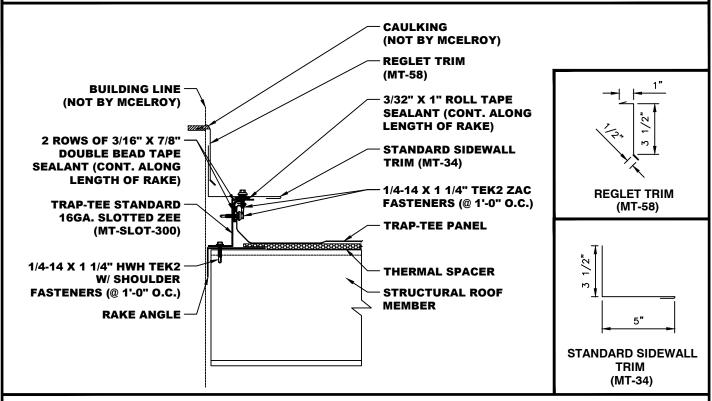


- NOTES: 1. MT-183 (Rake Trim), MT-156 (Rake Support Cleat) and MT-SLOT-300 (Trap-Tee Standard 16ga. Slotted Zee) to run from eave to ridge.
 - 2. Attach MT-SLOT-300 (Trap-Tee Standard 16ga. Slotted Zee) to rake angle with 1/4-14 x 1 1/4" HWH Tek2 w/ Shoulder Fasteners at 1'-0" O.C.
 - 3. Apply two (2) continuous beads of 3/16" x 7/8" Double Bead Tape Sealant to the vertical leg of the Trap-Tee panel. Install Trap Tee panel and hold in place on the Slotted Zee with clamps. Fasten panel to Slotted Zee with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 4. Apply a continuous bead of 3/32" x 1" Roll Tape Sealant to the top of the Starter Zee and attach MT-183 (Rake Trim) with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant in trim laps and Fasten to trims.

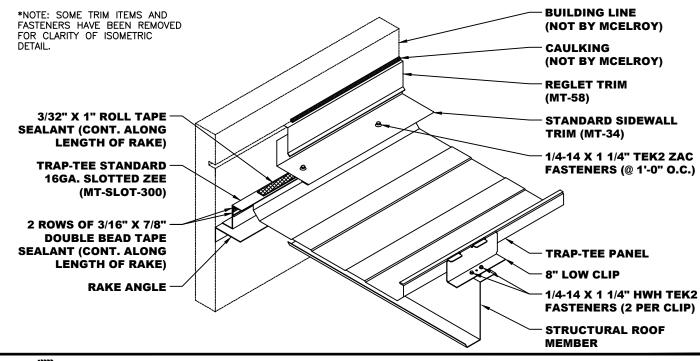




RAKE TIE-IN DETAIL

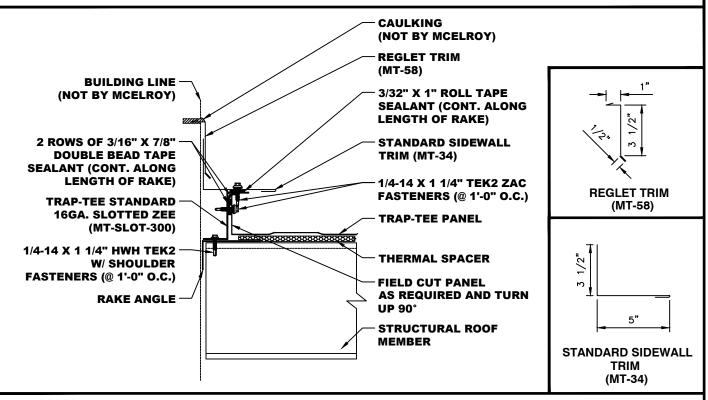


- NOTES: 1. MT-34 (Standard Side-Wall Trim) to run from Eave to Ridge.
 - 2. Attach MT-SLOT-300 (Trap-Tee Standard 16ga. Slotted Zee) to rake angle with 1/4-14 x 1 1/4" HWH Tek2 with Shoulder Fasteners at 1'-0" O.C.
 - 3. Apply two (2) continuous beads of 3/16" x 7/8" Double Bead Tape Sealant to the vertical leg of the Trap-Tee panel. Install Trap Tee panel and hold in place on the Starter Zee with clamps. Fasten panel to Slotted Zee with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 4. Apply a continuous run of 3/32" x 1" Roll Tape Sealant to the top of the Slotted Zee and attach MT-34 (Standard Side-Wall Trim) with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant in trim laps and Fasten to trims.

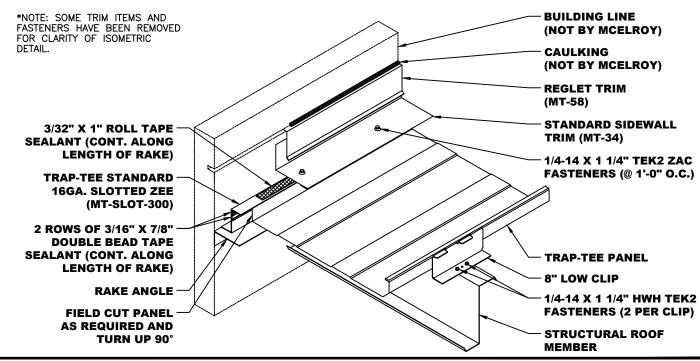




RAKE TIE-IN (OFF MODULE) DETAIL

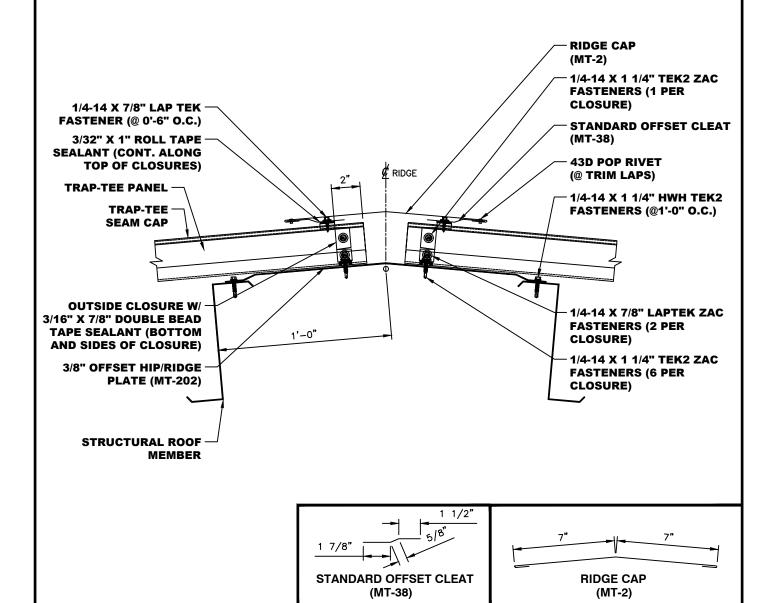


- NOTES: 1. MT-34 (Standard Side-Wall Trim) to run from Eave to Ridge.
 - 2. Attach MT-SLOT-300 (Trap-Tee Standard 16ga. Slotted Zee) to rake angle with 1/4-14 x 1 1/4" HWH HWH Tek2 with Shoulder Fasteners at 1'-0" O.C.
 - 3. Apply two (2) continuous beads of 3/16" x 7/8" Double Bead Tape Sealant to the vertical leg of the Trap-Tee panel. Install Trap Tee panel and hold in place on the Slotted Zee with clamps. Fasten panel to Slotted Zee with 1/4-14 x 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 4. Apply a continuous run of 3/32" \times 1" Roll Tape Sealant to the top of the Starter Zee and attach MT-34 (Standard Side-Wall Trim) with 1/4-14 \times 1 1/4" Tek2 ZAC Fasteners at 1'-0" O.C.
 - 5. Trim pieces lap 2". Apply 3/32" x 3/8" Butyl Tape or Butyl Tube Sealant in trim laps and Fasten to trims.





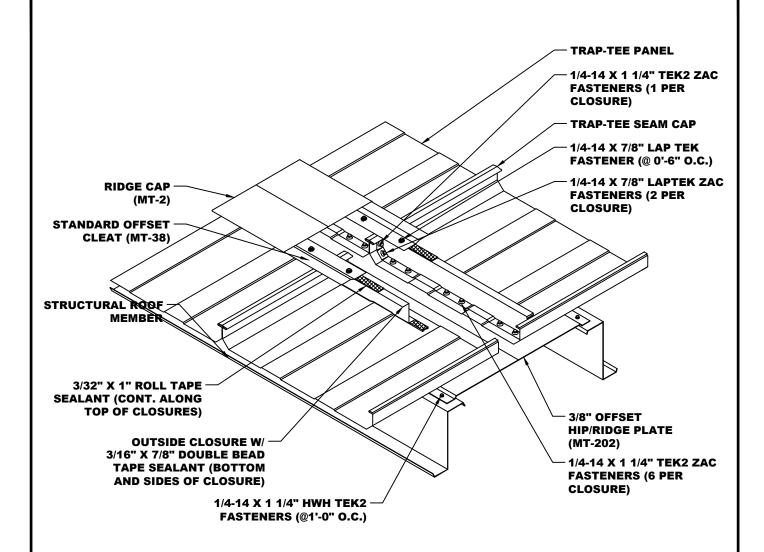
FIXED RIDGE DETAIL

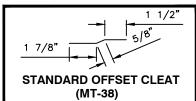


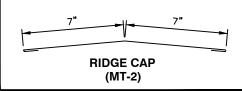
- NOTES: 1. MT-2 (Ridge Cap) and MT-38 (Standard Offset Cleat) to run from out of wall to out of wall.
 - 2. Install Trap-Tee panels and apply a 3/16" x 7/8" Double Bead Tape Sealant to the bottom and sides of the Outside Closure.
 - 3. Install Outside Closures and secure to panel with (6) 1/4-14 x 1 1/14" Tek2 ZAC Fasteners, making sure to fasten through into the MT-202 (3/8" Offset Hip/Ridge Plate) and (2) 1/4-14 x 7/8" LapTek Zac Fasteners into the angled sides of Outside Closures.
 - 4. MT-2 (Ridge Cap) laps 2". Apply 3/32" x 1" Butyl Tape and Pop Rivet trims to MT-38 (Standard Offset Cleat) with Pop Rivets at Laps.
 - 5. Apply a continuous bead of 3/32" x 1" Butyl Tape to the top of the Outside Closures. Set Standard Offset Cleat in place and attach with 1/4-14 x 7/8" Lap Tek Fasteners at 6" O.C. Secure Ridge Cap (MT-2) with 43D Pop Rivets at Trim Laps.



FIXED RIDGE DETAIL (CONT.)



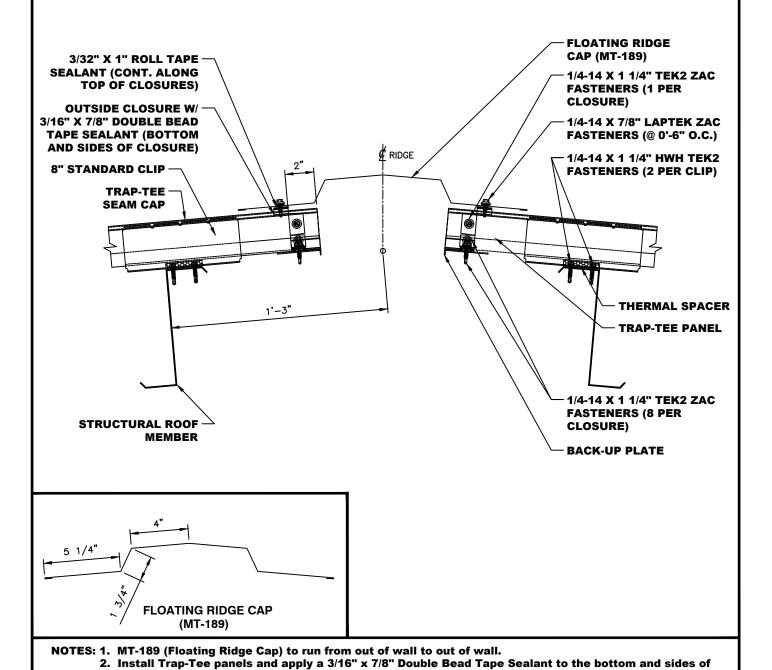




- NOTES: 1. MT-2 (Ridge Cap) and MT-38 (Standard Offset Cleat) to run from out of wall to out of wall.
 - 2. Install Trap-Tee panels and apply a $3/16" \times 7/8"$ Double Bead Tape Sealant to the bottom and sides of the Outside Closure.
 - 3. Install Outside Closures and secure to panel with (6) 1/4-14 x 1 1/14" Tek2 ZAC Fasteners, making sure to fasten through into the MT-202 (3/8" Offset Hip/Ridge Plate) and (2) 1/4-14 x 7/8" LapTek Zac Fasteners into the angled sides of Outside Closures.
 - 4. MT-2 (Ridge Cap) laps 2". Apply 3/32" x 1" Butyl Tape and Pop Rivet trims to MT-38 (Standard Offset Cleat) with Pop Rivets at Laps.
 - 5. Apply a continuous bead of 3/32" x 1" Butyl Tape to the top of the Outside Closures. Set Standard Offset Cleat in place and attach with 1/4-14 x 7/8" Lap Tek Fasteners at 6" O.C. Secure Ridge Cap (MT-2) with 43D Pop Rivets at Trim Laps.



FLOATING RIDGE DETAIL





the Outside Closure.

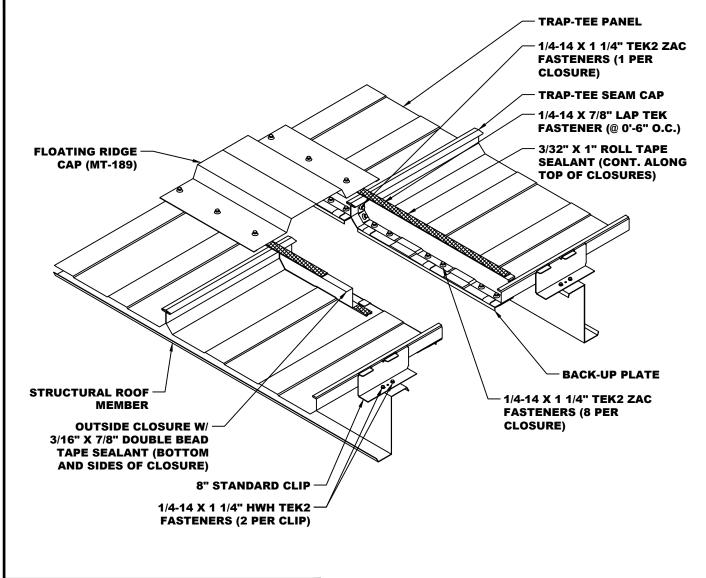
sure to fasten through into the Back-Up Plate.

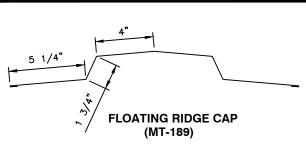
with 1/4-14 x 7/8" LapTek ZAC Fasteners at 0'-6" O.C.

4. MT-189 (Floating Ridge Cap) laps 2". Apply 3/32" x 1" Butyl Tape and attach to Outside Closures

3. Install Outside Closures and secure to panel with (9) 1/4-14 x 1 1/14" HWH Tek2 ZAC Fasteners, making

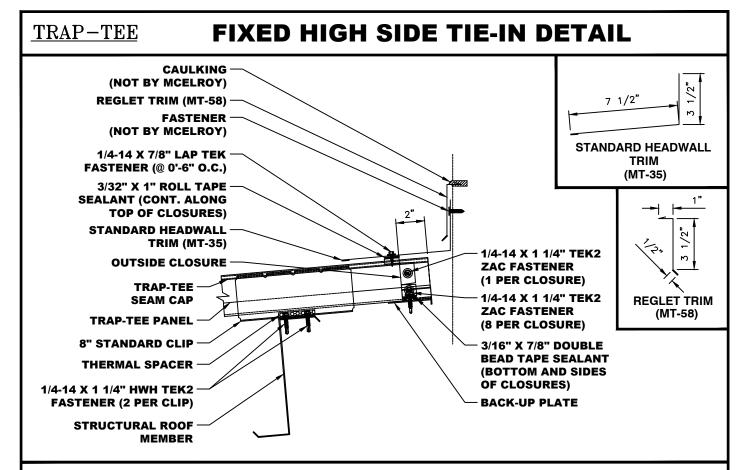
FLOATING RIDGE DETAIL (CONT.)



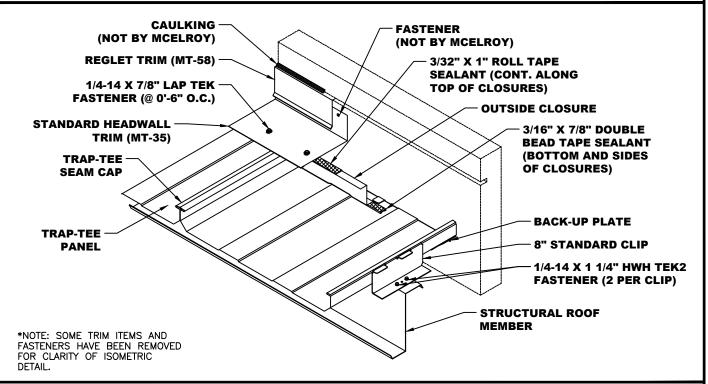


- NOTES: 1. MT-189 (Floating Ridge Cap) to run from out of wall to out of wall.
 - 2. Install Trap-Tee panels and apply a 3/16" x 7/8" Double Bead Tape Sealant to the bottom and sides of the Outside Closure.
 - 3. Install Outside Closures and secure to panel with (9) 1/4-14 x 1 1/14" HWH Tek2 ZAC Fasteners, making sure to fasten through into the Back-Up Plate.
 - 4. MT-189 (Floating Ridge Cap) laps 2". Apply 3/32" x 1" Butyl Tape and attach to Outside Closures with 1/4-14 x 7/8" LapTek ZAC Fasteners at 0'-6" O.C.

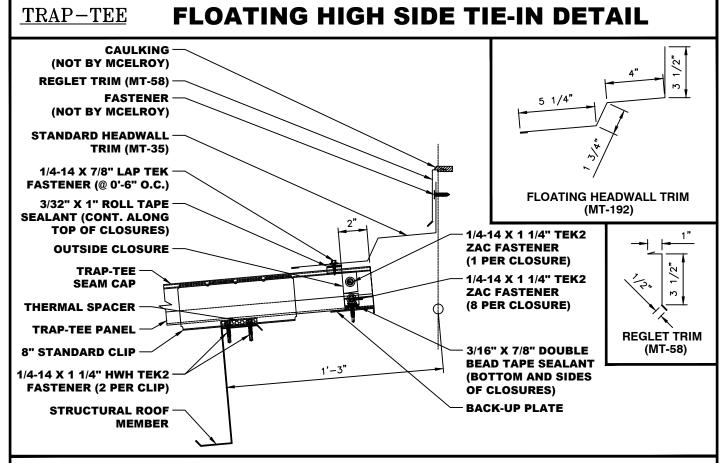




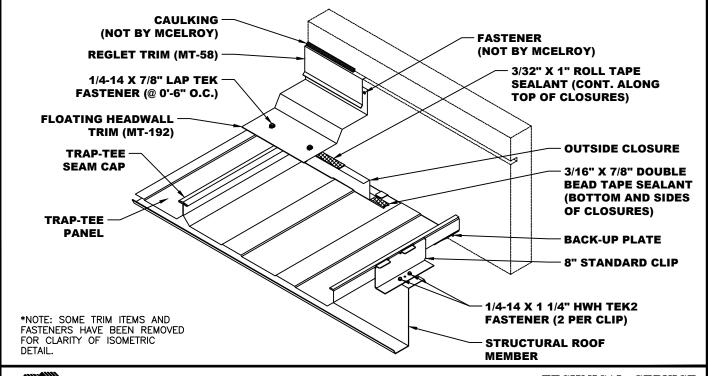
- NOTES: 1. MT-35 (Standard Headwall Trim) to run from out of wall to out of wall.
 - 2. Install Trap Tee panels and apply a 3/16" x 7/8" Double Bead Tape Sealant to the bottom and sides of the Outside Closure.
 - 3. Install Outside Closures and secure to panel with (9) $1/4-14 \times 1 \cdot 1/14$ " HWH Tek2 ZAC Fasteners, making sure to fasten through into the Back-Up Plate.
 - 4. MT-35 (Standard Headwall Trim) laps 2". Apply a continuous bead of 3/32" x 1" Butyl Tape along the top of the Outside Closures and attache with 1/4-14 x 7/8" Lap Tek Fasteners at 6" O.C.







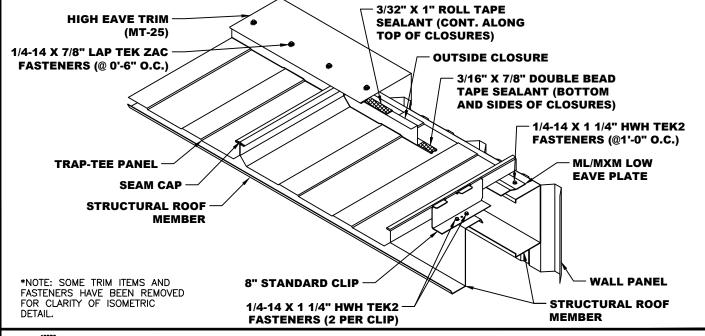
- NOTES: 1. Standard Headwall Trim (MT-35) to run from out of wall to out of wall.
 - 2. Install Trap-Tee panels and apply a 3/16" x 7/8" Double Bead Tape Sealant to the bottom and sides of the Outside Closure.
 - 3. Install Outside Closures and secure to panel with (9) $1/4-14 \times 1 \frac{1}{14}$ HWH Tek2 ZAC Fasteners, making sure to fasten through into the Back-Up Plate and through sides of seams.
 - 4. Standard Headwall Trim (MT-35) laps 2". Apply a continuous bead of 3/32" x 1" Butyl Tape along the top of the Outside Closures and attach with $1/4-14 \times 7/8$ " Lap Tek Fasteners at 6" O.C.





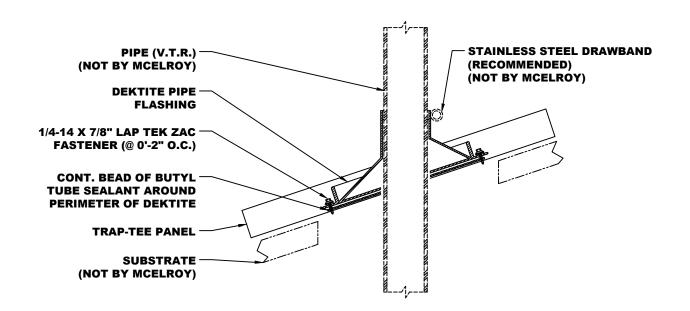
FIXED HIGH EAVE DETAIL TRAP-TEE **HIGH EAVE TRIM** 1/4-14 X 1 1/4" TEK2 ZAC (MT-25) **FASTENERS** (1 PER CLOSURE) **OUTSIDE CLOSURE W/** 3/16" X 7/8" DOUBLE BEAD TAPE 1/4-14 X 7/8" LAPTEK ZAC -**SEALANT (TOP AND BOTTOM OF CLOSURE) FASTENERS (@0'-6" O.C.)** 1/4-14 X 1 1/4" TEK2 ZAC 3/32" X 1" ROLL TAPE **FASTENERS SEALANT (CONT. ALONG** (1 PER CLOSURE) **LENGTH OF HIGH EAVE)** 1/4-14 X 7/8" LAPTEK ZAC **FASTENERS** TRAP-TEE SEAM CAP (2 PER CLOSURE) 8" ML/MXM LOW 1/4-14 X 1 1/4" TEK2 **EAVE PLATE** ZAC FASTENER (6 PER CLOSURE) 'n 1/4-14 X 1 1/4" TEK2 **ZAC FASTENERS** (@ 1'-0" O.C.) **8" STANDARD CLIP** 1/4-14 X 7/8" LAP TEK **HIGH EAVE TRIM FASTENER** THERMAL SPACER (MT-25) (@ MAJOR RIBS) 1/4-14 X 1 1/4" HWH TEK2 **FASTENER (2 PER CLIP) OUTSIDE CLOSURE** 1 1/2" (RECOMMENDED) 5/8 **TRAP-TEE PANEL** 1 7/8" **WALL FASTENER WALL PANEL** STANDARD OFFSET CLEAT STRUCTURAL ROOF (MT-38)**MEMBER**

- NOTES: 1. High Eave Trim (MT-25) Standard Offset Cleat(MT-38) and ML/MXM Low Eave Plate to run from out of wall to out of wall.
 - 2. Install Trap Tee panels and apply a 3/16" x 7/8" Double Bead Tape Sealant to the bottom and sides of the Outside Closure.
 - 3. Install Outside Closures and secure to panel with (6) 1/4-14 x 1 1/4" Tek2 ZAC Fasteners into Low Eave Plate, (2) 1/4-14 x 7/8" LapTek ZAC Fasteners and (1) 1/4-14 x 1 1/4" Tek2 ZAC Fastener in the vertical seam portion of the closure.
 - 4. Apply a continuous bead of 3/32" x 1" Butyl Tape to the top of the Outside Closures.
 - 5. High Eave Trim (MT-25) laps 2". Attach to the Outside Closures with 1/4-14 x 7/8" LapTek ZAC Fasteners at 0'-6" O.C.

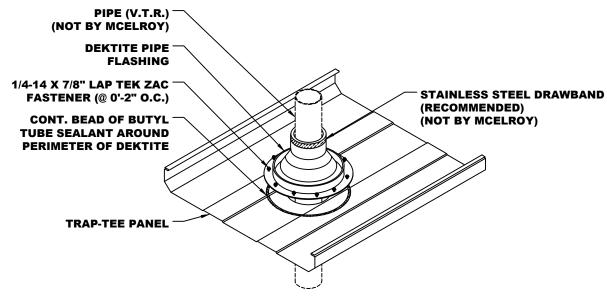


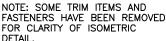


TRAP-TEE DEKTITE (PIPE PENETRATION) DETAIL

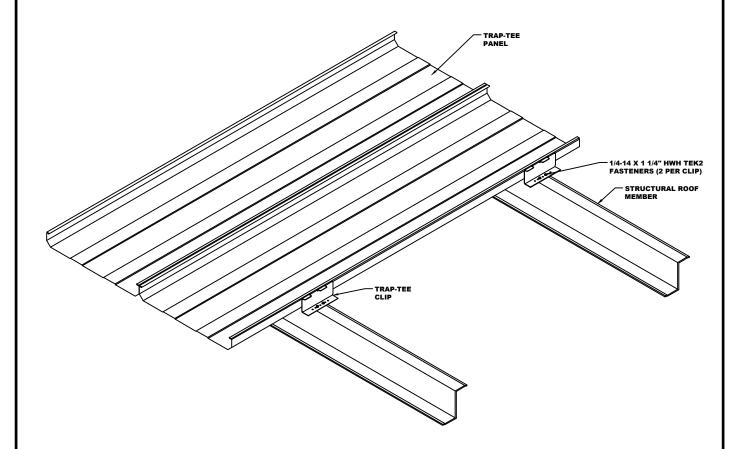


- NOTES: 1. Cut hole in panel 1" larger than pipe diameter. If installing over a solid substrate, over-cut hole in substrate so fastener do not pin system from thermal movement.
 - 2. Cut hole in top of Dektite Boot so that it fits snuggly around pipe. Apply a 3/16" Ø bead of Tube Butyl sealant around 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.



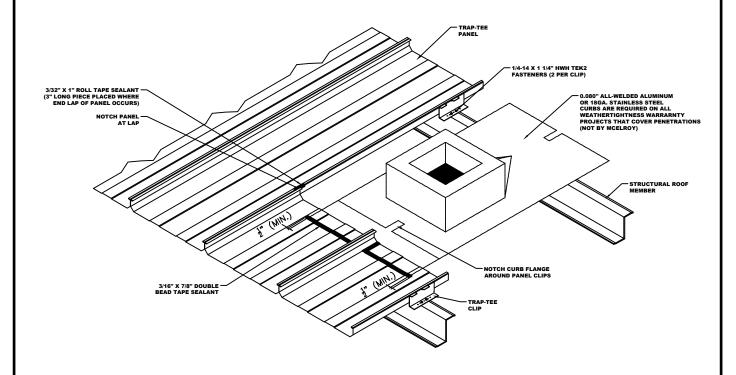






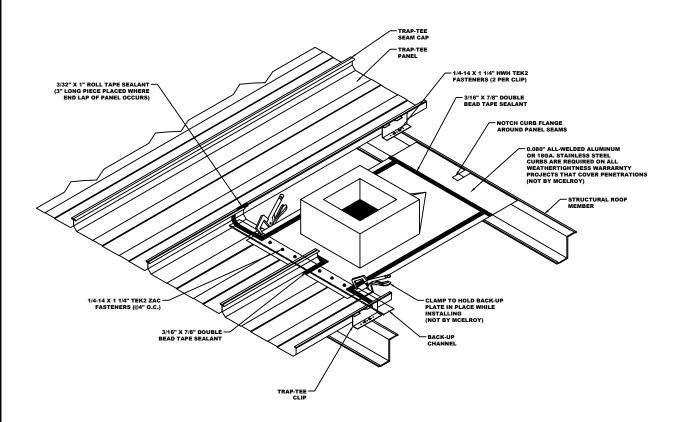
STEP #1





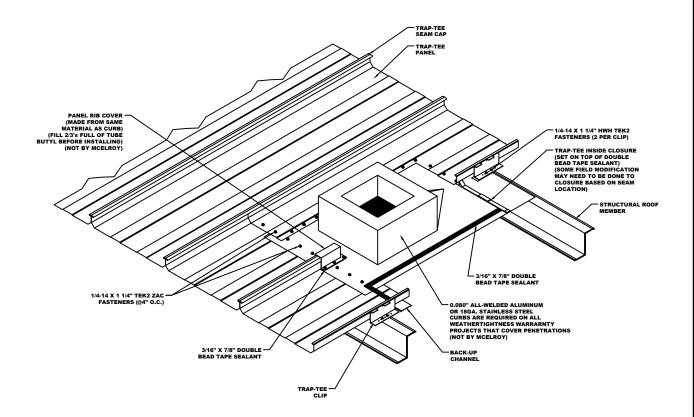
STEP #2





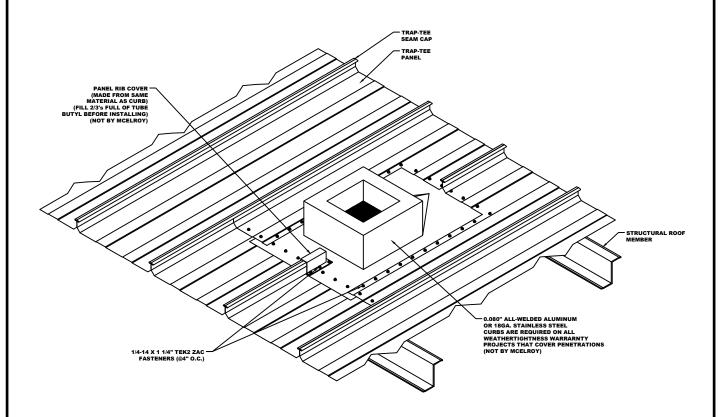
STEP #3





STEP #4

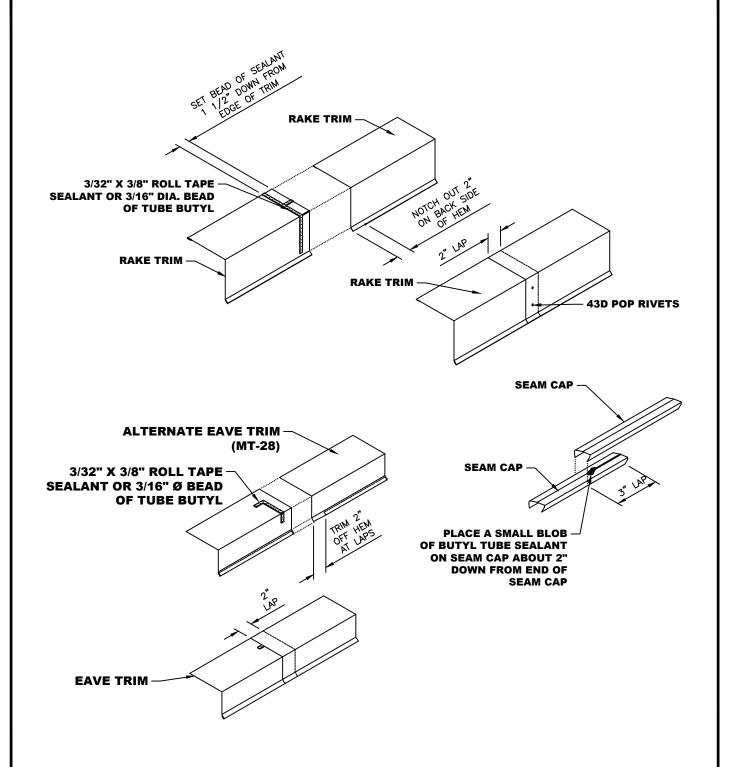




STEP #5



TYPICAL TRIM LAP DETAIL

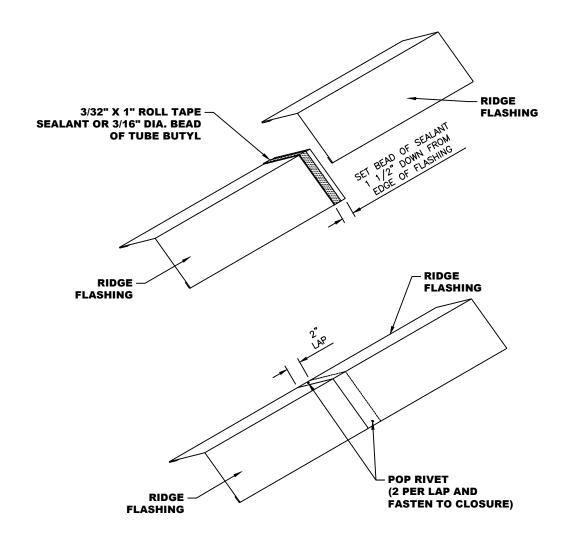


NOTE: 1. Apply 3/32" x 3/8" Roll Tape Sealant or a 3/16" Dia. bead of Tube Butyl 1 1/2" back from the edge of the trim. Also, apply a piece of tape sealant or bead of Tube Butyl as a Pigtail to completely seal joint.

- 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.



TYPICAL TRIM LAP DETAIL



NOTE: 1. Apply 3/32" x 1" Roll Tape Sealant or a 3/16" Dia. bead of Tube Butyl 1 1/2" back from the edge of the trim.

- 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.





MANUFACTURING LOCATIONS • SERVICE CENTERS 🛊 MANUFACTURING AND SERVICE CENTER



MANUFACTURING LOCATIONS

CLINTON, IL ADELANTO, CA ASHBURN, GA **BOSSIER CITY, LA** DIAMOND, MO MARSHALL, MI LEWISPORT, KY MAUSTON, WI HOUSTON, TX LOCKHART, TX

MERKEL, TX PEACHTREE CITY, GA SUNNYVALE, TX WINCHESTER, VA



17031	Koala	Road
Adolar	to CA	92301

5215 Leo St. Alexandria, LA 71301 Adelanto, CA 92301 9476 Meadowbrook Rd. 3052 Yadkin Road Chesapeake, VA 23323 Clinton, IL 61727

409 Lovejoy Road 3014 Lincoln Court Ft. Walton Beach, FL 32548 Garland, TX 75041

32 Industrial Circle 9435 US Hwy. 60 W. Lancaster, PA 17601 Lewisport, KY 42351

514 Cave Road 5123 Terminal Dr. Nashville, TN 37210 McFarland, WI 53558

8511 Industrial Drive 2755 Hwy 60 Pearland, TX 77584 Pendergrass, GA 30567

1365 Dean Forest Rd. 7355 Oakley Industrial Blvd. Savannah, GA 31405 Union City, GA 30291

1007 Wilso Dr. Baltimore, MD 21223

3215 Highway 59 Diamond, MO 64840

1440 Aldine Bender Road **Houston, TX** 77032

2701 Cahill Street Lockhart, TX 78644

8304 Hwy. 70 E. North Little Rock, AR 72117

7450 Tower Street Richland Hills, TX 76118

1144 Silstar Rd. West Columbia, SC 29170

1500 Hamilton Rd. Bossier City, LA 71111

390 N. Valley Dell Dr. Fenton, MO 63026

10504 E. 59th Street Indianapolis, IN 46236

1020 Veterans Street Mauston, WI 53948

613 North Bierdeman Rd. Pearl, MS 39208

8200 Berry Ave. Suite 100 Sacramento, CA 95828

325 McGhee Rd. Winchester, VA 22603

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

MM485 11-23