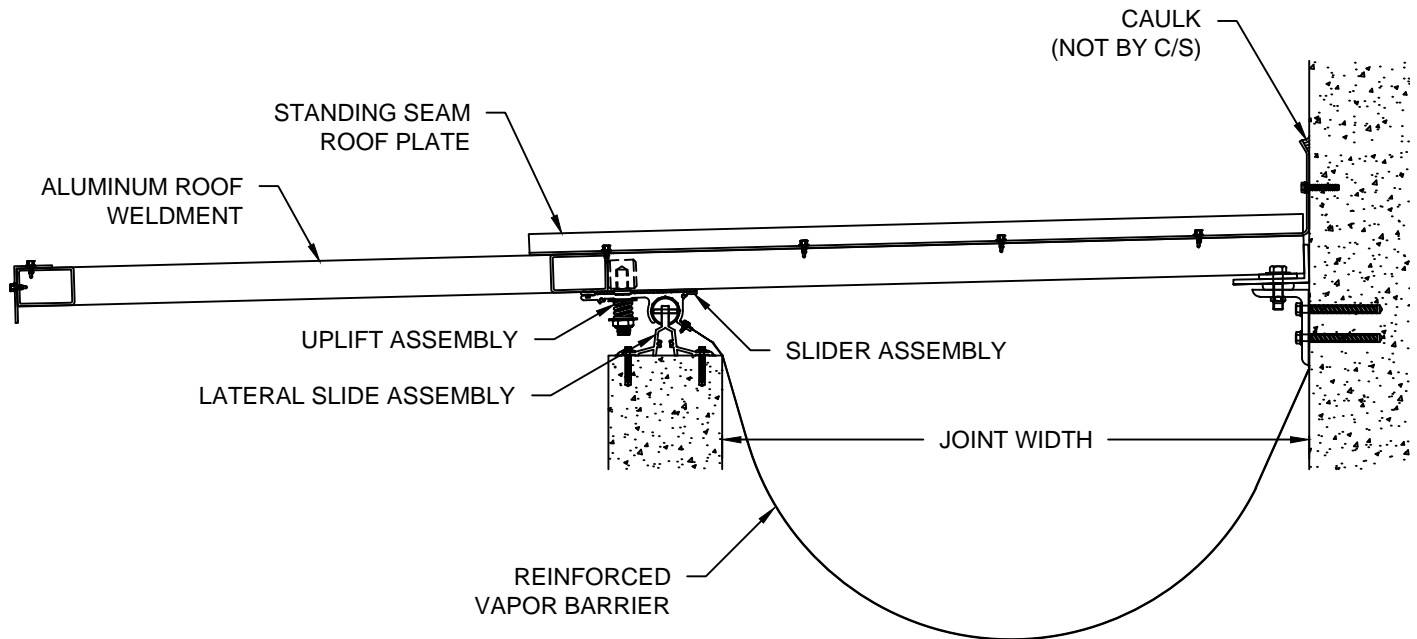


# MODEL MARC 1800-3600 DYNAMIC ROOF COVER INSTALLATION INSTRUCTIONS



## IMPORTANT INFORMATION

Prior to the commencement of Installation, all materials **MUST** be inspected for Damage. Any damage must be reported to CONSTRUCTION SPECIALTIES, INC., as soon as possible, so that replacement materials may be furnished without delay.

All work must be completed as per Architect's Approved "Shop Drawings", and in accordance with these Installation Instructions. When installation is complete, all materials must be protected from damage until the Architect's FINAL INSPECTION.

All materials should be arranged in the order that they are to be installed. All hardware required for each portion of the work should be placed with the appropriate materials.

Please review all Approved Shop Drawings and this Document to familiarize yourself with all the details and components of this assembly.

## IMPORTANT:

**READ THROUGH ALL INSTRUCTIONS PRIOR TO STARTING INSTALLATION**

8/20/14



**Construction Specialties™**

6696 Route 405 Highway, Muncy PA 17756  
(800) 233-8493 • Fax (570) 546-5169 • www.c-sgroup.com

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## Notes

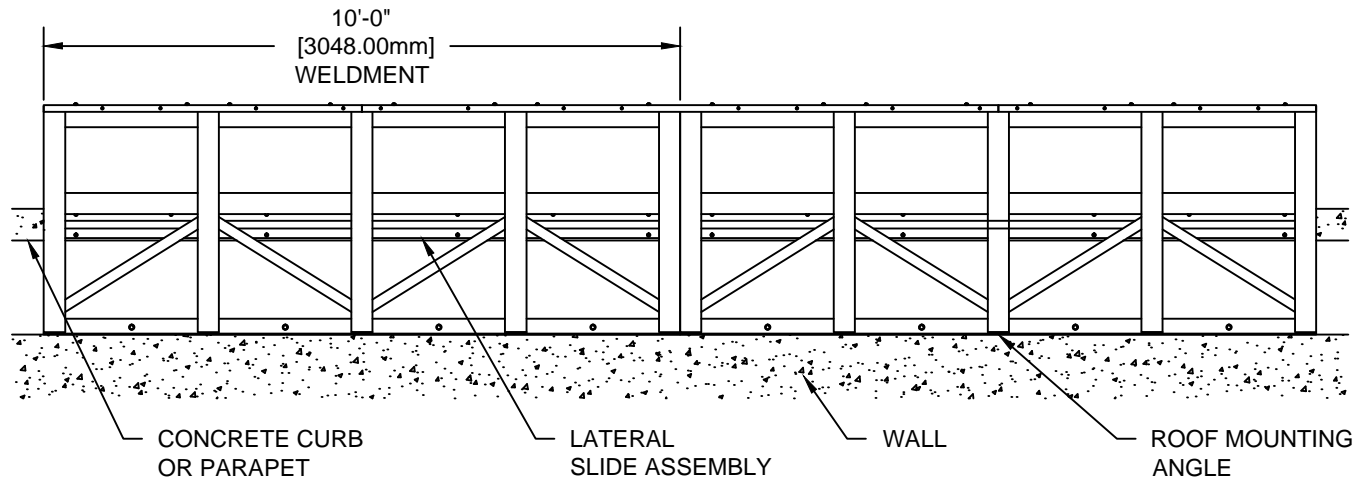
Before beginning installation, review the architectural drawings and approved Construction Specialties Inc. shop drawings to familiarize yourself with the joint cover models and locations.

Check all of the joint cover components to confirm that the correct joint cover model and size have been received. Also, check for materials that may have been damaged during shipping. Report all incorrect and/or damaged components to C/S at 800-233-8493.

Read through all the steps of these instructions prior to beginning work.

Check the joint to make sure that it is clear of any materials that will impede the installation of the roof cover. Make sure that the area around the joint is clean and accessible.

# INSTALLATION NOTES AND TOOLS



## TOOLS:

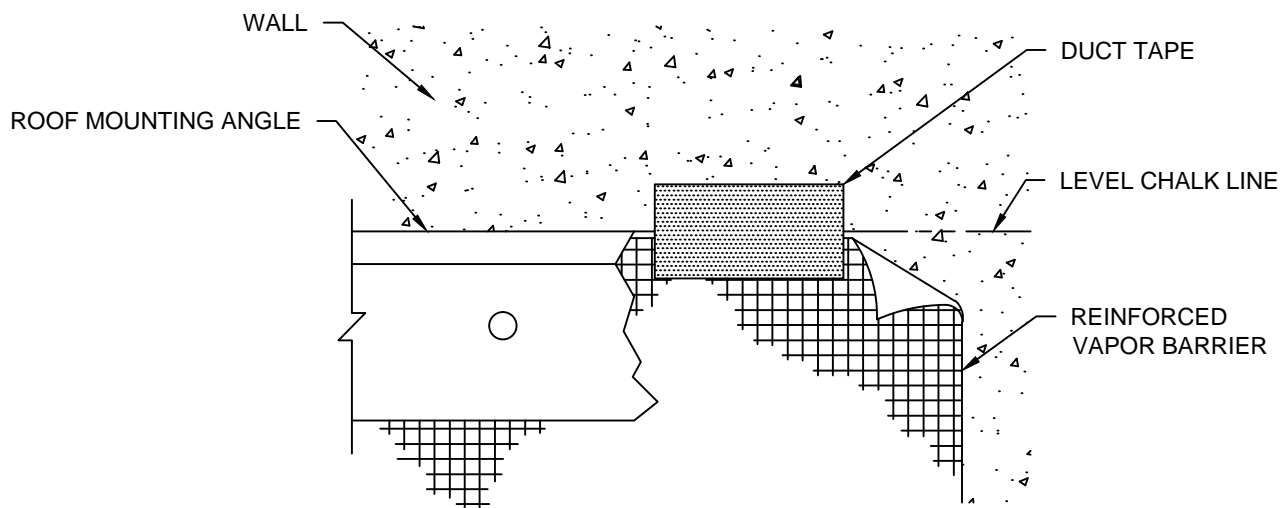
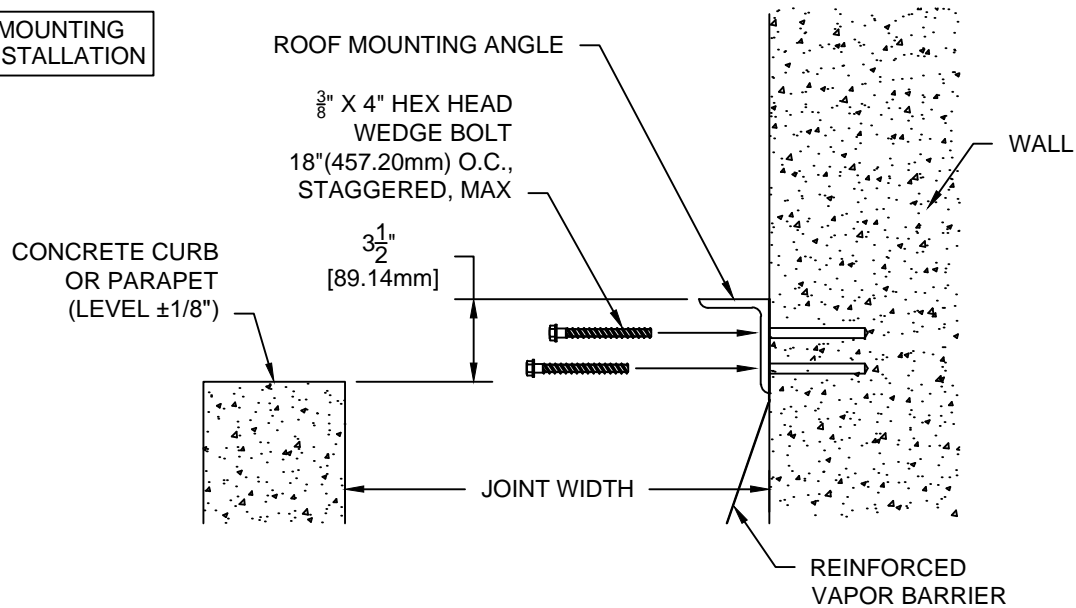
The following tools may be required for installation of the MARC Roof Cover:

- Chalk line
- Measuring Tape
- Level
- Tin Snips
- Hammer
- Permanent Marker
- Utility Knife
- Circular and/or Chop Saw (with standard and abrasive blades)
- Drill
- Duct Tape
- Screw Drivers
- 1/2" Wrench

1. Before beginning installation it is necessary to establish the orientation of the Lateral Slide Assembly and Roof Mounting Angle.
2. Check the architectural drawings and the approved C/S shop drawings for specific locations to receive the Lateral Slide Assembly and Roof Mounting Angle.
3. With the Roof Mounting Angle location established, the Roof Weldments must be oriented to the angle so the attachment to the Lateral Slide Assembly and Roof Support Angle can be made properly.
4. The Roof Mounting Angle must be mounted to the wall, approximately 3 1/2" above the top of the Concrete Curb or Parapet (See Step 1).

# STEP 1

## ROOF MOUNTING ANGLE INSTALLATION

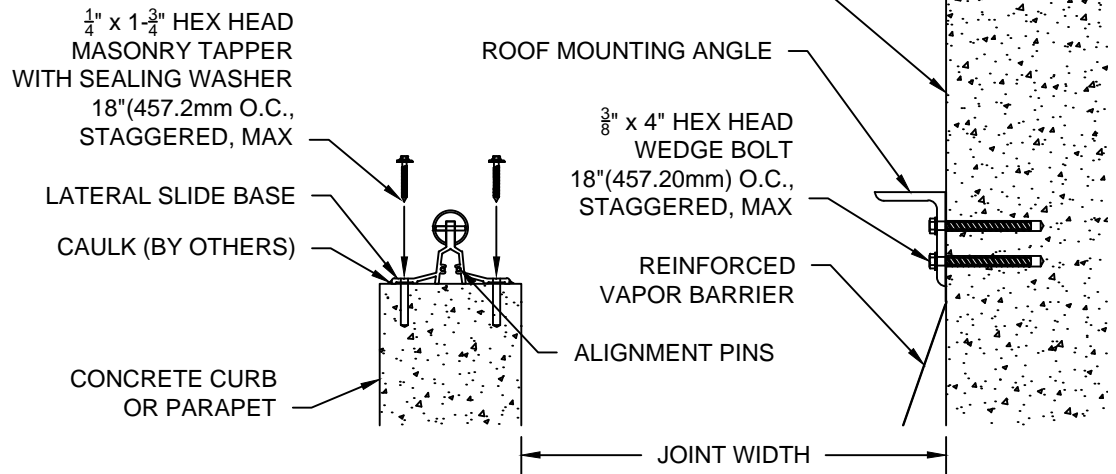


### Step 1:

- 1.1) Along the face of the Wall establish a level chalk line that is 3 1/2" above and parallel to the top of the Concrete Curb/Parapet (see detail above).
- 1.2) Position a continuous length of Reinforced Vapor Barrier even with and along the entire chalk line and tape into place with duct tape (see detail above).
- 1.3) Starting at the beginning of the run, position a 10'-0" length of the Roof Mounting Angle so the horizontal leg of the angle is even and level with the chalk line and top of the Vapor Barrier (see detail above).
- 1.4) Using the Mounting Angle as a template, mark and drill the holes for the C/S supplied  $\frac{3}{8}$ " X 4" Hex Head Wedge Bolt per manufacturer's guidelines.
- 1.5) Attach both the Mounting Angle and the Vapor Barrier using the C/S supplied Wedge Bolt per manufacturer's guidelines.
- 1.6) Repeat these installation procedures for any additional lengths of the Roof Mounting Angle.
- 1.7) For instruction on how to splice or install drain in Vapor Barrier refer to the C/S supplied installation instructions 12AX.

# STEP 2

## LATERAL SLIDE BASE INSTALLATION

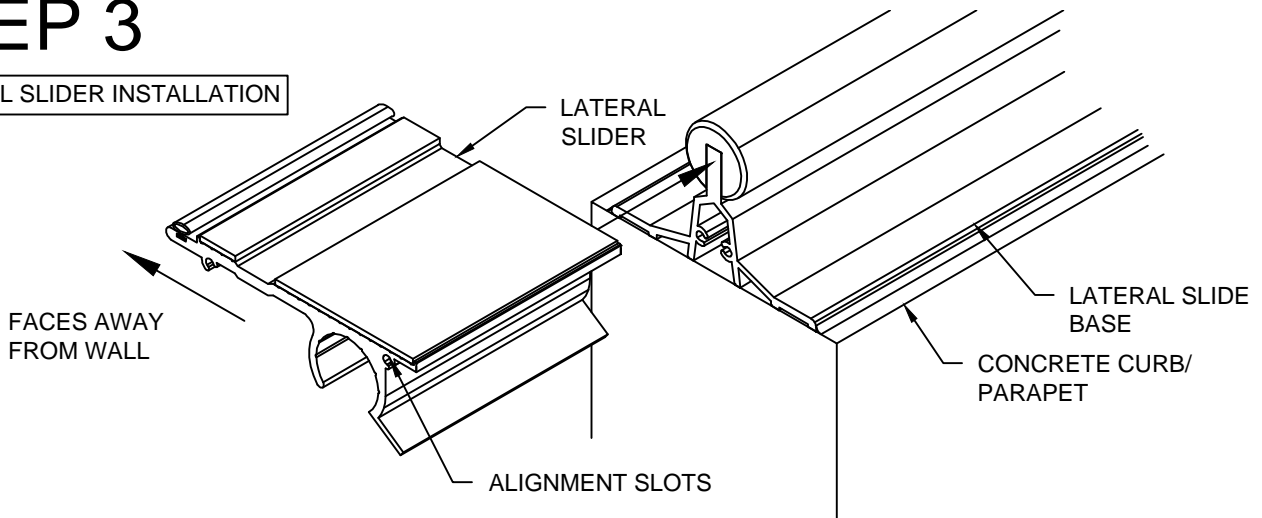


### Step 2:

- 2.1) Begin installation of the Lateral Slide Assembly by first placing a length of the Lateral Slide Base on top of the Concrete Curb/Parapet. The part must be parallel to the Roof Support Angle and level. Using the Lateral Slide Base as a template mark and drill the location of the holes for the C/S supplied 1/4" x 1 3/4" Hex Head Masonry Tappers per manufacturer's guidelines using the C/S supplied masonry bit.
- 2.2) Attach the Lateral Slide Base using the C/S supplied 1/4" x 1 3/4" Hex Head Masonry Tappers and Sealing Washers per manufacturer's guidelines. Shim and level as required. Apply caulk to continuously to both sides of the Lateral Slide Base for additional water penetration prevention.
- 2.3) For additional lengths of the Lateral Slide Base, insert the grooved end of alignment pin into the alignment slot, approximately half of it's length. Align additional lengths of Lateral Slide Base to the installed alignment pins of the previous Lateral Slide Base for proper alignment. Level and anchor as previously instructed.
- 2.4) Cut and remove any of the Lateral Slide Base that extends beyond the Concrete Curb/Parapet.

# STEP 3

## LATERAL SLIDER INSTALLATION



### Step 3:

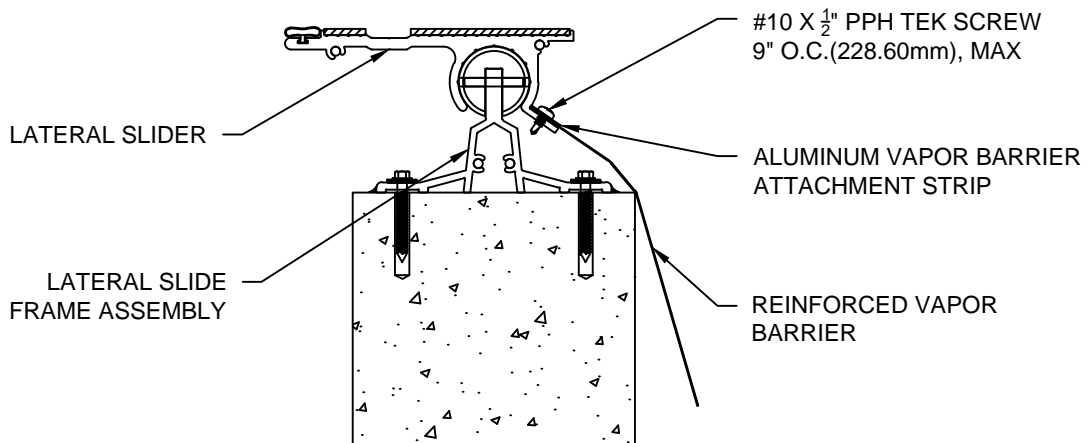
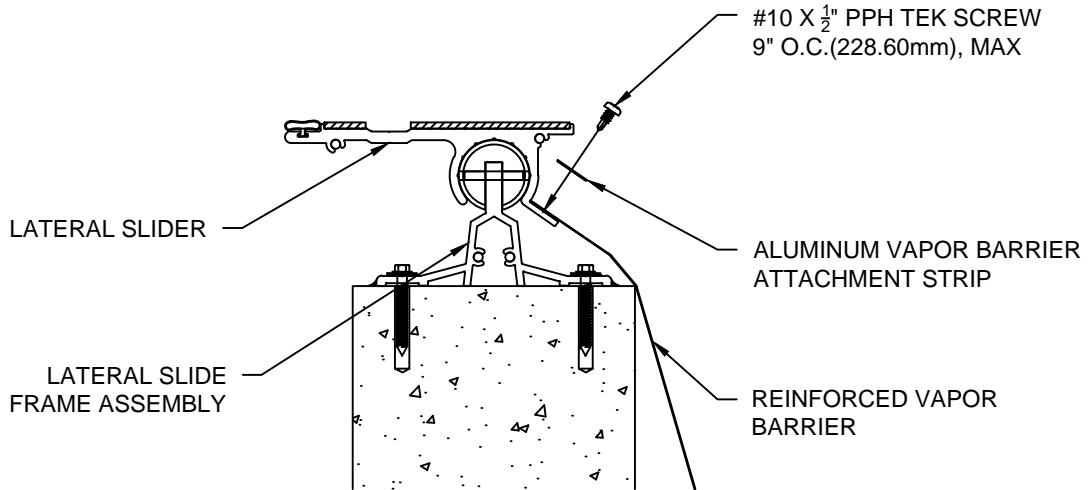
- 3.1) Begin installation of the Lateral Slider by sliding a piece on to the Lateral Slide Base. The extended leg is to face away from the wall as shown in detail above.
- 3.2) For installation of additional lengths of the Lateral Slider, insert the grooved end of alignment pins, approximately half of it's length, into the alignment slot.
- 3.3) Slide another length of the Lateral Slider on to the Lateral Slide Base, aligning alignment slots with the alignment pins of the previous length of Slider for proper alignment at splices.

### Notes:

The Lateral Slider should be parallel to the Roof Mounting Angle and slide freely over the entire length of the Lateral Slide Base.

# STEP 4

## VAPOR BARRIER INSTALLATION

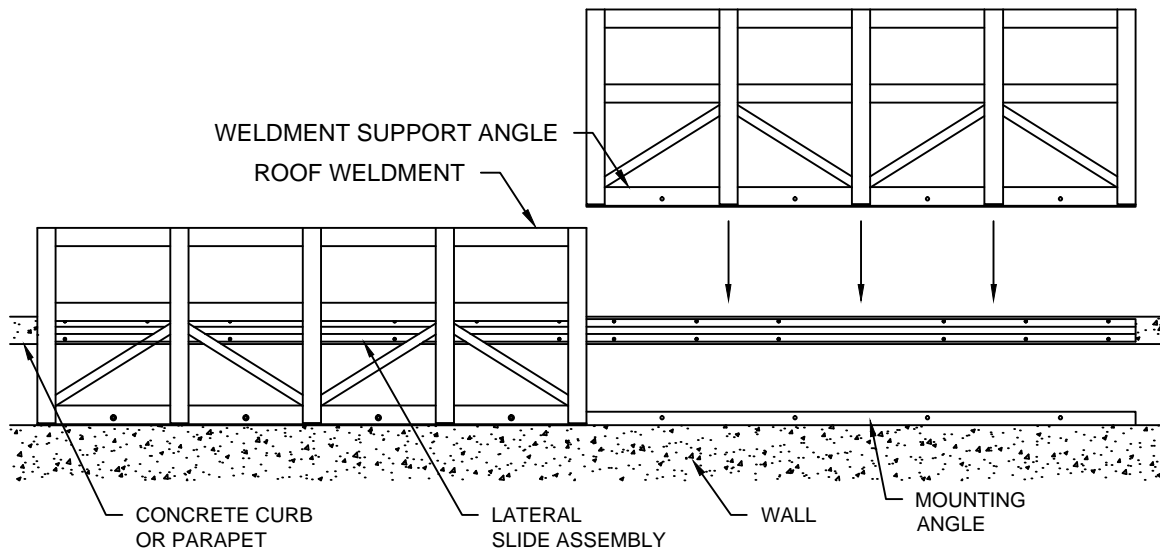


### Step 4:

- 4.1) Begin installation of the Reinforced Vapor Barrier to the Lateral Slide Assembly by first taping the Vapor Barrier to the aluminum Assembly to hold in place.
- 4.2) Next place the Aluminum Vapor Barrier Attachment Strip on top of the Vapor Barrier as shown in detail above and attach using the C/S supplied # 10 x  $\frac{1}{2}$ " PPH Tek Screws per Manufacturer's guidelines through the pre-drilled holes.
- 4.3) Refer to the C/S supplied installation instruction 12AX for the Vapor Barrier splicing and drain instructions.

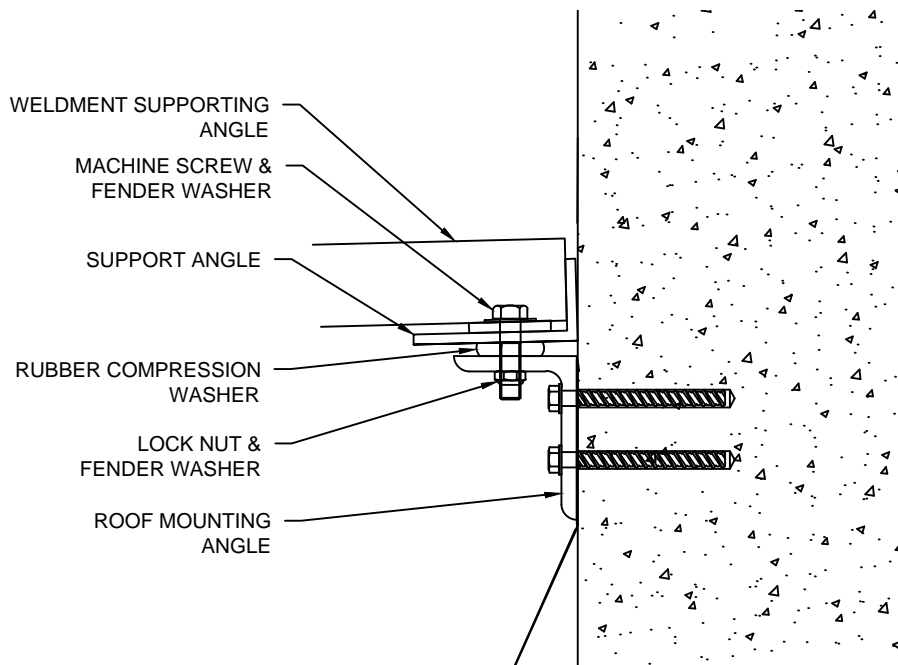
# STEP 5

## WELDMENT INSTALLATION



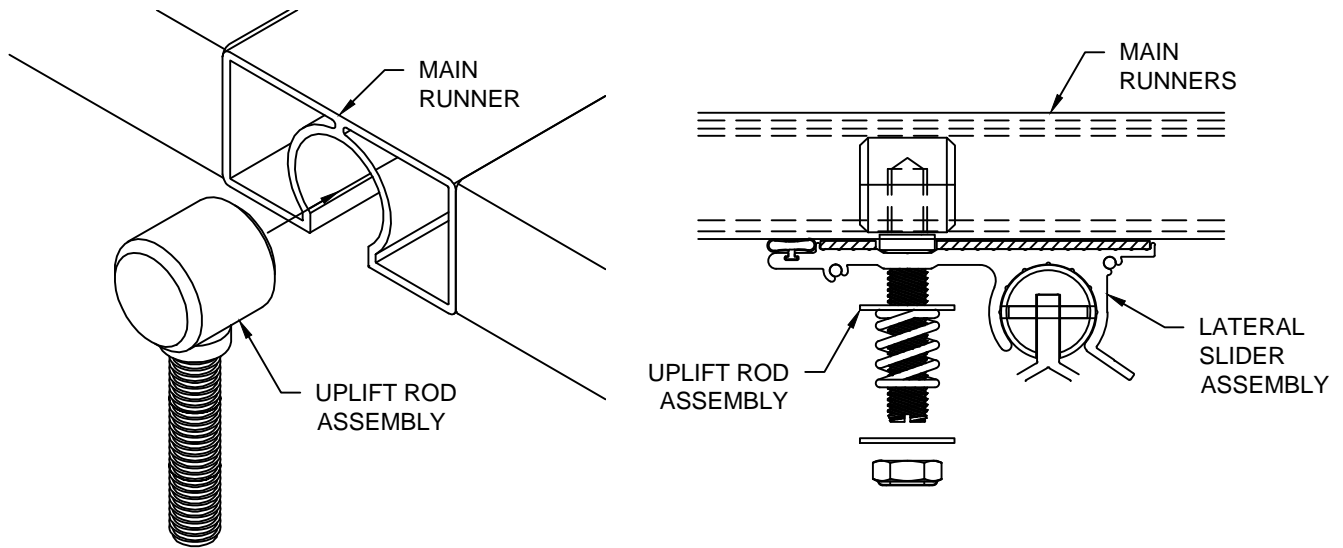
### Step 5:

- 5.1) Begin installation of the Roof Weldment by aligning the holes of the Weldment Support Angle with the holes in the Mounting Angle. (See detail above)
- 5.2) Place a Rubber Compression Washer between the Weldment and Roof Support Angle and attach using the C/S supplied  $\frac{1}{2}$ " x 2" Hex Head Machine Screw, S/S Fender Washer and Lock Nut as shown in detail below.
- 5.3) Repeat these installation instructions for any additional lengths of the Roof Weldments.



# STEP 6

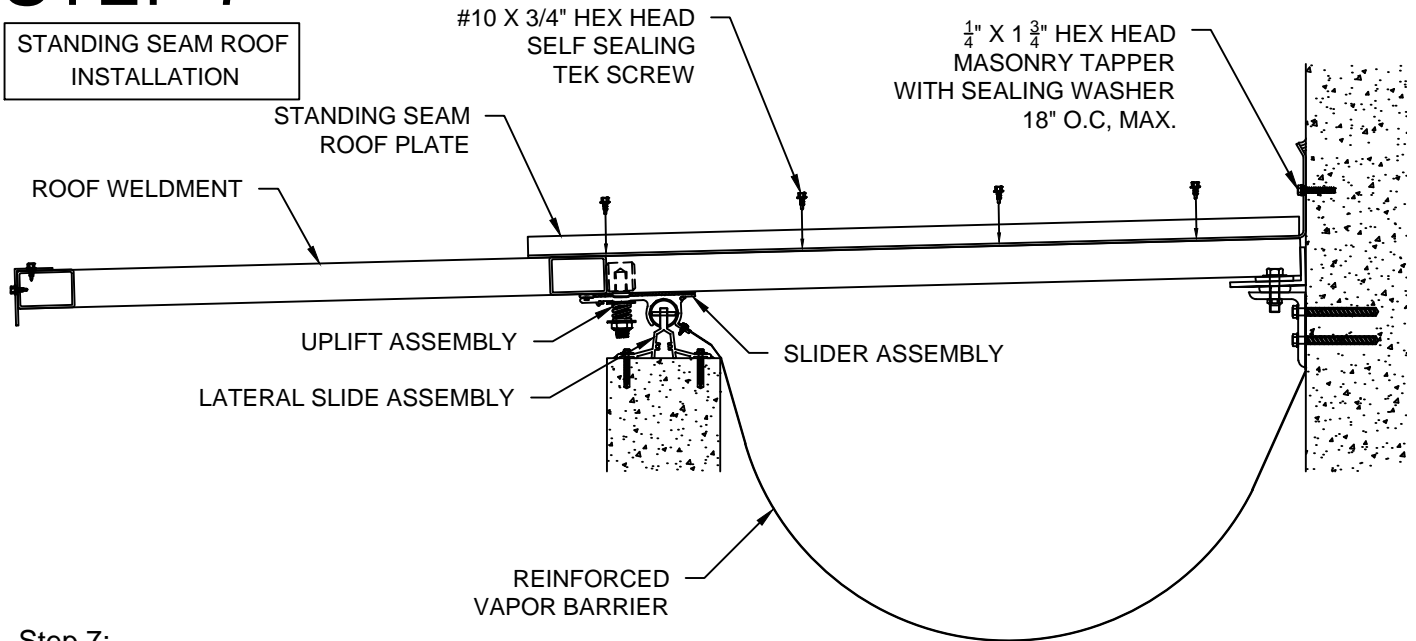
## UPLIFT ASSEMBLY INSTALLATION



### Step 6:

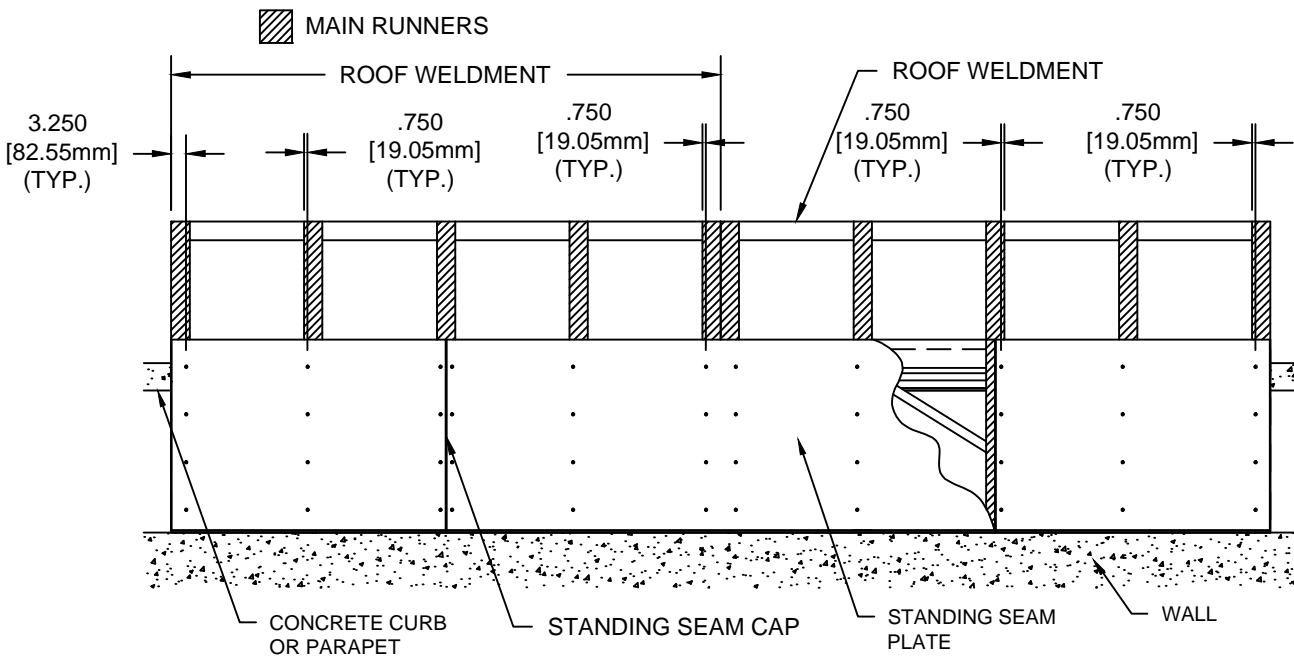
- 6.1) Slide a Uplift Assembly into each of the Main Runners that make up the Roof Weldment, until they reach the Lateral Slide Assembly.
- 6.2) Lift the free end of the Roof Weldment and insert the threaded portion of the Uplift Assembly into the holes in the Lateral Slider. Lower the Weldment so it rests back on the Lateral Slide Assembly.
- 6.3) Place a Washer, Spring, Washer, and Lock Nut on the bottom stud of the Uplift Assembly and tighten until the spring is slightly compressed.

# STEP 7



## Step 7:

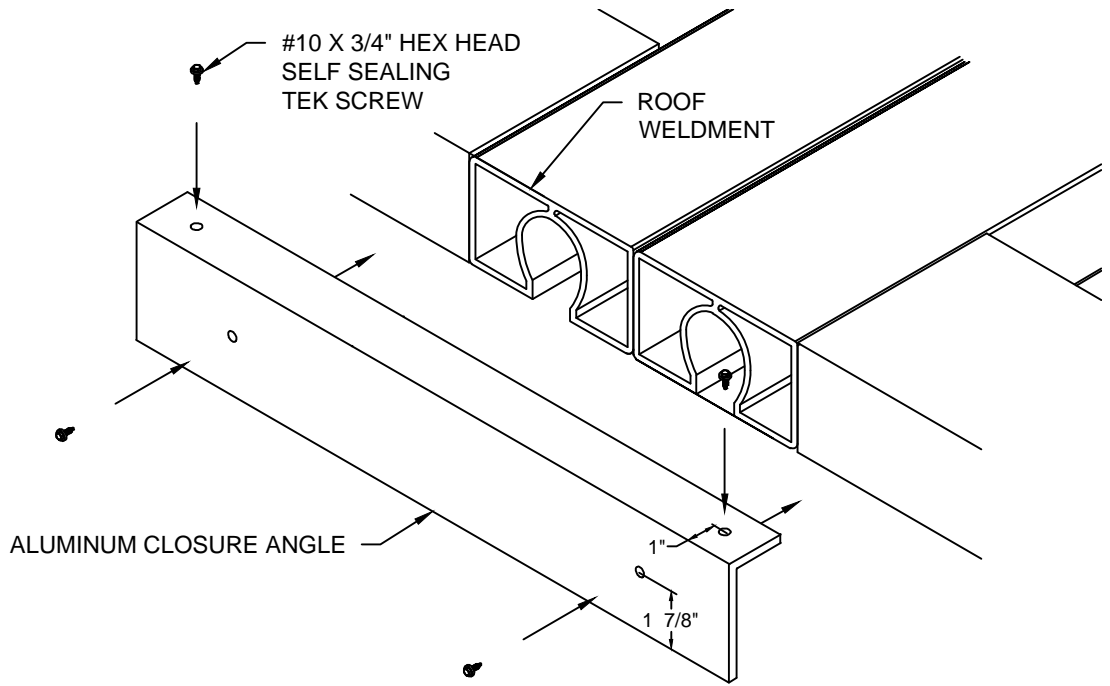
- 7.1) Beginning at the centerline of the run, place a Standing Seam Roof Plate onto Roof Weldment as shown in details. Align one edge with the centerline of Roof Weldments runner and the turned up leg is towards the Wall. Using the Standing Seam Plate as a template mark the locations of the fasteners and drill holes for the C/S supplied 1/4" x 1 3/4" Hex Head Masonry Tapper per manufacturer's guidelines using the C/S supplied masonry bit.
- 7.2) Attach the Standing Seam Roof Plates to the Main Runners of the Roof Weldment using #10 x 3/4" Hex Head Self Sealing Tek Screws 3/4" from edge as shown below. Do not fasten directly in middle of the Main Runners as this will cause interference during movement.
- 7.3) Fasten through the up turned leg of the Standing Seam Roof Plate into the Wall with 1/4" x 1 3/4" Hex Head Masonry Tapper with Sealing Washer per manufacturer's guidelines.
- 7.4) Repeat until all of the Roof Plates are installed.
- 7.5) Apply a bead of Silicon Caulk (not by C/S) to the inside of the Standing Seam Cap.
- 7.6) Press the Standing Seam Cap down onto the standing seams of the butted Roof Plates sealing and joining the seam.





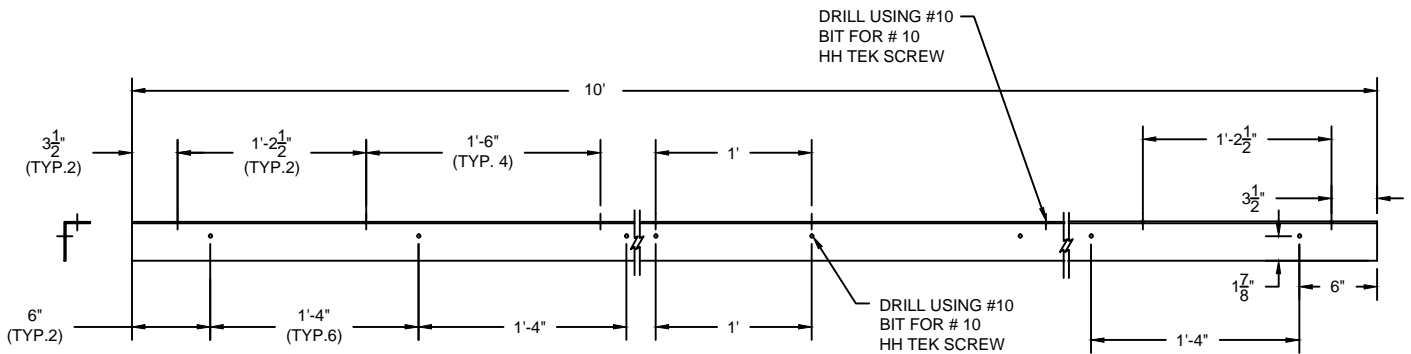
# STEP 8

## ALUM. CLOSURE ANGLE INSTALLATION



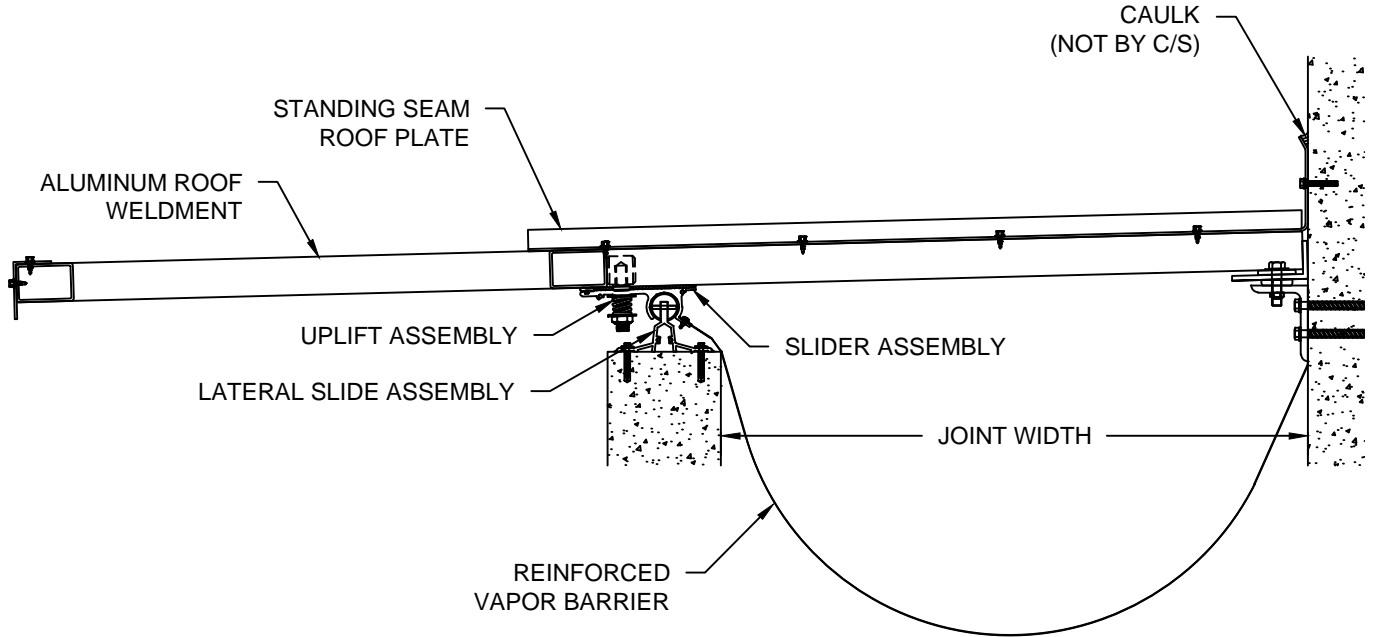
### Step 8:

- 8.1) Field drill Aluminum Closure Angle for #10 x 3/4" Hex Head Self Sealing Tek Screws located into the Roof Weldments on the top and face per manufacturer's guidelines for 10' length. (See detail below for drilling / hole locations) \*Do not fasten directly on the top in the middle of the Main Runners as this will cause interference during movement.
- 8.2) Beginning at the centerline of the run, center a Aluminum Closure Angle over the butt joint between the Roof Weldments at the over hanging end of the cover assembly.
- 8.3) Position and attach the remaining lengths of angle. Then cut and remove any of the angle that extends beyond the end of the Weldment assembly.



# STEP 9

## COMPLETE INSTALLATION



### Step 9:

- 9.1) Apply continuous bead of caulk (by others) on flange of Standing Seam Roof Plate between Plate and Wall as shown in detail above.
- 9.2) Installation of the C/S Roof Expansion Joint Cover has been completed, remove all residue and foreign matter from the area and joint cover.
- 9.3) Clean the C/S Joint Cover and adjoining surfaces with proper cleaner.
- 9.4) Protect the Joint Cover until the Architect's final inspection.