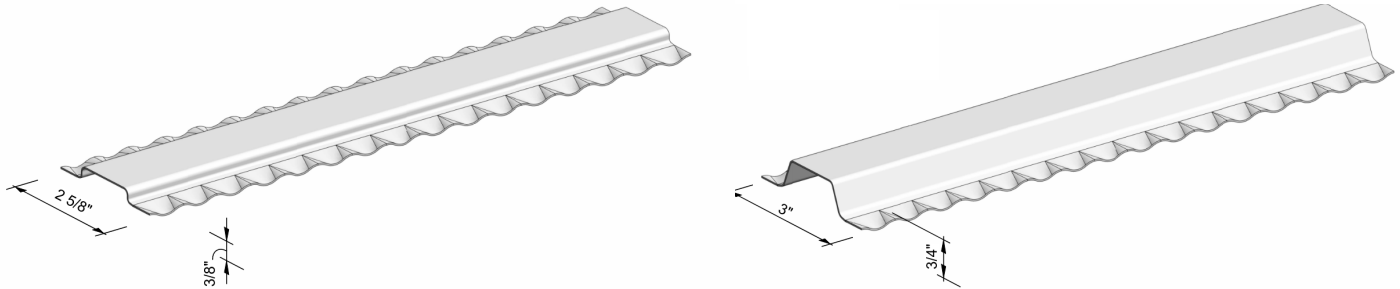




## Product Description:

Furring Master 3-Vertical Horizontal Vent is a 20ga or 18ga structural steel hat-channel with corrugated flanges for drainage & airflow, available in  $\frac{3}{8}$ " or  $\frac{3}{4}$ " depth. FM3 is AZ50 ZINCALUME® coated for added corrosion resistance and obtains 37ksi strength, typical 39-59, with good ductility. \*\*See final page for FM4-MaxFlow installation instructions.



## Tools needed:

- Level
- Chalk Line/Laser
- Cordless Drill
- Nail Gun
- Chop Saw/Tin Snips
- Tape Measurer

## Fasteners:

- If using screws, we recommend #12 or #14 self-drilling screws with sealing gaskets
- If using nails, we recommend using a pin nailer (ET&F, Aerosmith, or equivalent)
- \*\*Additional panhead self-tapping sheet metal screws may be needed for FM4-MaxFlow installation

## Recommendations:

- Seal all fasteners.
- When installing over Continuous Insulation, preset drill to avoid over-tightening fasteners. Over-tightening fasteners may result in the corrugated channels compressing into the insulation & diminished drainage capability.
- Pre-drill the FM3 channels for faster/easier installation.
- Refer to your siding manufacturer for requirements regarding siding attachment.

## Job Site Safety & Preparation:

- Always wear eye protection and gloves.
- Make sure the wall is free from any structural defects and all membranes or flashings are properly installed per manufacturer's requirements.
- Before installation, check your local building code requirements and read all manufacturer's installation instructions.

## IMPORTANT:

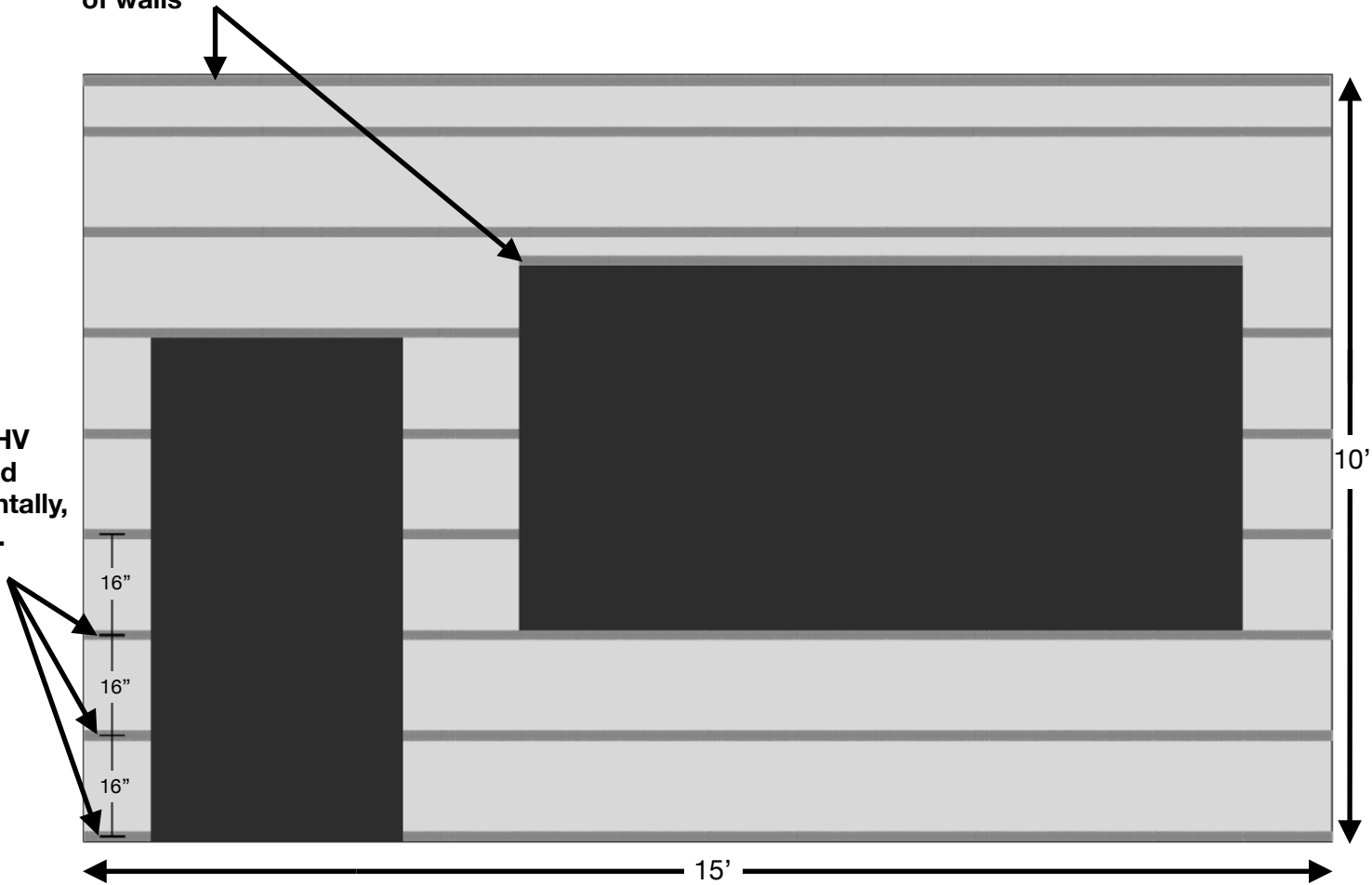
Failure to follow Albuild Systems written installation instructions in accordance with project engineer/architect recommendations and applicable building codes may violate local laws, affect building envelope performance, and/or possibly void warranty coverage. Every project is unique and the full details of each project should be given proper consideration on a case-by-case basis by the architect, engineer, contractor, and installer. AlBuild Systems is not responsible for any moisture intrusion/damage or structural failure within the wall assembly, cracking/delamination of siding, or blowout on backside of siding. Failure to comply with all health and safety regulations when cutting and installing this product may result in personal injury. AlBuild Systems is not responsible or liable for any injuries or loss of any kind during use of any of AlBuild Systems products. Please contact your Albuild Systems representative with any installation questions not covered in these written instructions.



**Typical Horizontal layout:**

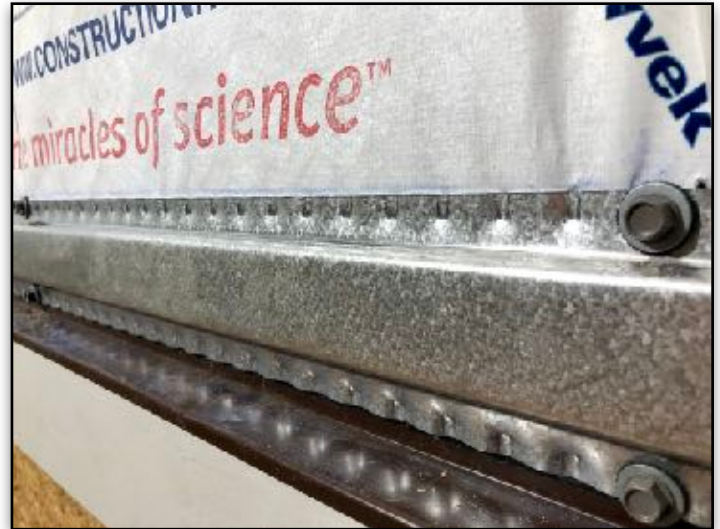
**FM3-VHV installed Horizontally above & below openings / at top & bottom of walls**

**FM3-VHV installed Horizontally, 16" o.c.**



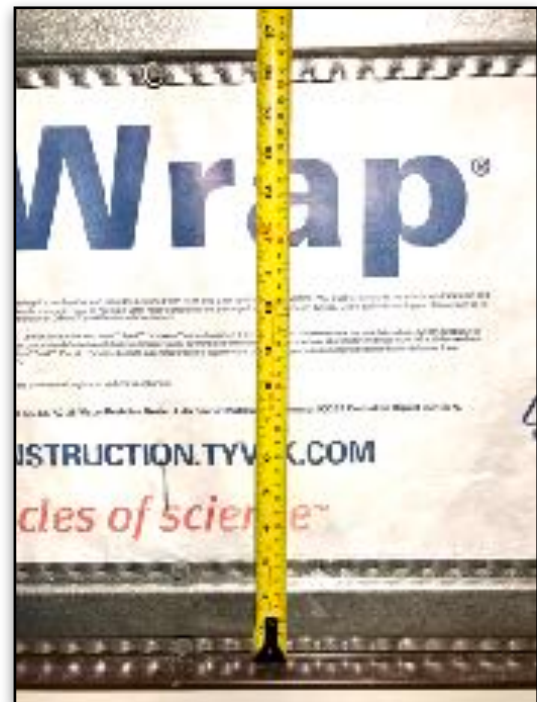
## BOTTOM/STARTER VENT

- Measure 2- $\frac{5}{8}$ " up (3" if using  $\frac{3}{4}$ " FM3-VHV) from the bottom of the wall on both sides of the wall, make a mark
- Snap a chalkline from one mark to the other (make sure line is level & straight)
- Measure & cut a piece of FM3-VHV to the length of the wall
- Line up the **top** edge of FM3-VHV strip with the chalk line
- Fasten into framing member every 16" on top **AND** bottom flange



## FM3-VHV Horizontally

- Starting from the bottom of the wall, measure 16" up from your original chalkline of on both sides of the wall
- Snap a new chalkline from one mark to the other (make sure line is level & straight)
- Measure & cut a piece of FM3-VHV to the length of the wall
- Line up the **top** edge of FM3-VHV with chalkline
- Fasten into framing member every 16" on top **AND** bottom flange
- Repeat every 16" up the wall

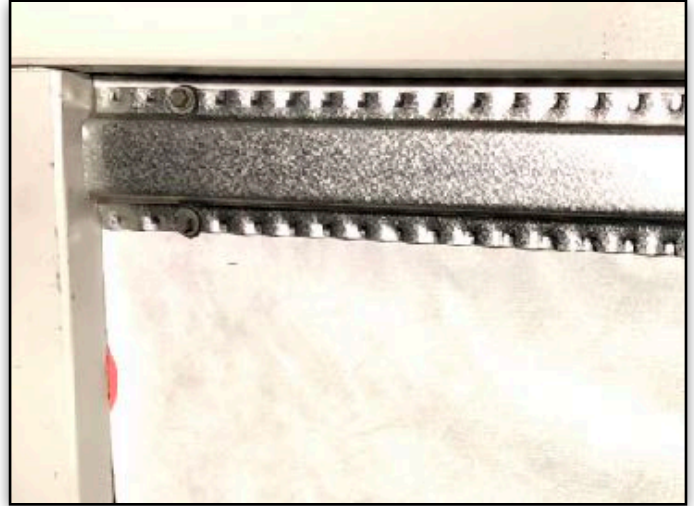




## ABOVE AND BELOW OPENINGS (windows, doors, etc)

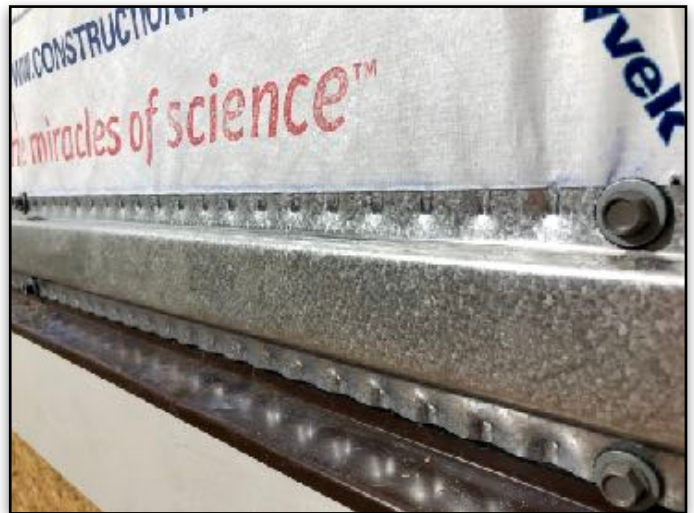
### BELOW OPENINGS

- Measure 2-5/8" down (3" if using 3/4" FM3-VHV) from the bottom of the trim on both sides of the opening (this leaves 1/4" gap for venting)
- Snap a chalkline from one end to the other (make sure line is level & straight)
- Measure & cut a piece of FM3-VHV to length
- Line up the **bottom** edge of FM3 strip with chalk line
- Attach with two fasteners (one on each flange) every 16" into the framing



### ABOVE OPENINGS

- Measure 2-5/8" up (3" if using 3/4" FM3-VHV) from the top of the flashing on both sides of the opening (this leaves 1/4" gap for venting)
- Snap a chalk line from one end to the other (make sure line is level and straight)
- Measure & cut a piece of FM3-VHV to the length of the wall
- Line up the **bottom** edge of FM3-VHV with the chalk line
- Attach with two fasteners (one on each flange) every 16" into the framing

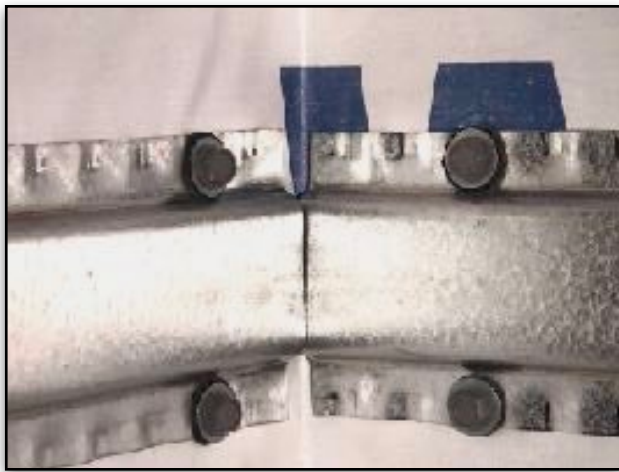






## INSIDE CORNER

- Complete installation steps on the 1st wall, butting each FM3-VHV member flush against the corner of 2nd adjoining wall
- Begin installation on the 2nd adjoining wall, butting each FM3-VHV member flush against the FM3-VHV member on the 1st wall (3/8" out from the corner)



## OUTSIDE CORNER

- Complete installation steps on the 1st wall, running each FM3-VHV member flush with the plane of the 2nd adjoining wall
- Begin installation on the 2nd adjoining wall, 3/8" beyond end of 2nd wall (flush with top of hat-channel of 1st course)



## TOP VENT

- Measure 2-5/8" down (3" if using 3/4" FM3-VHV) from the soffit on both sides of the wall, make a mark
- Snap a chalkline from one mark to the other (make sure line is level & straight)
- Measure & cut a piece of FM3-VHV to the length of the wall
- Line up the **bottom** edge of FM3 strip with chalk line
- Fasten into framing member every 16" on top **AND** bottom flange

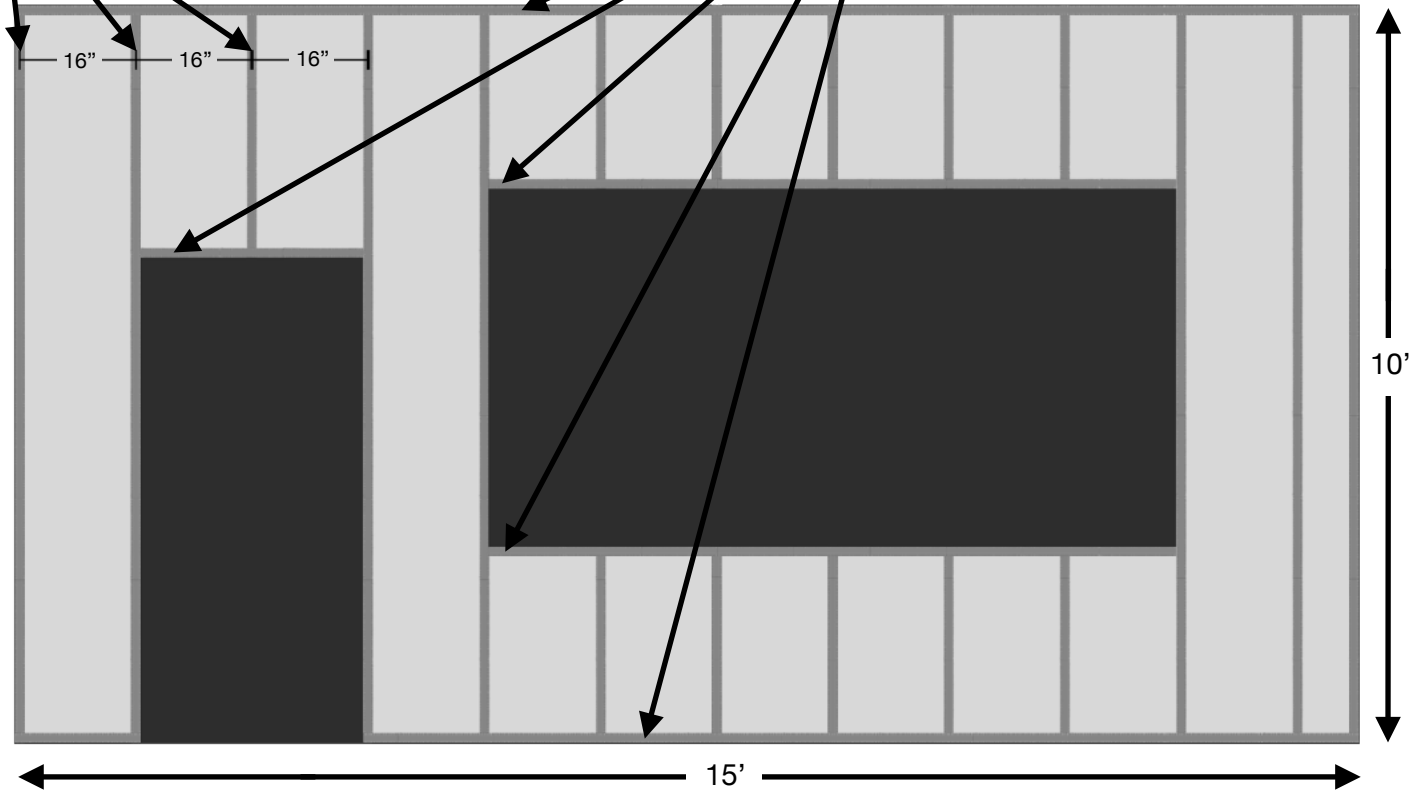




**Typical Vertical layout**

**FM3-VHV  
installed  
Vertically,  
16" o.c.**

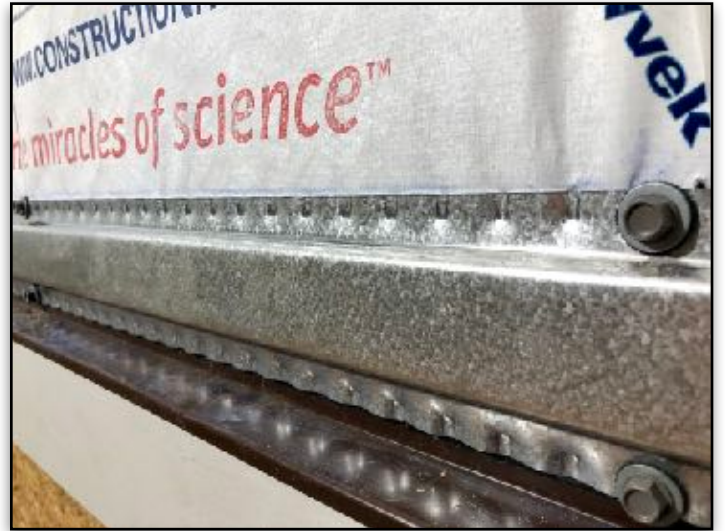
**FM3-VHV installed Horizontally  
above & below openings / at  
top & bottom of walls**





### **BOTTOM/STARTER VENT**

- Measure 2-5/8" up (3" if using 3/4" FM3-VHV) from the bottom of the substrate on both sides of the wall
- Snap a chalk line from one end to the other (make sure line is level & straight)
- Measure & cut a piece of FM3-VHV to the length of the wall
- Line up the **top** edge of FM3-VHV with the chalk line
- Fasten every 16" on **both** flanges into the framing



### **FM3-VHV Vertically**

- Measure and cut a piece of FM3-VHV to the length of the wall (accounting for Top & Bottom Vents)
- Line up the edge of FM3-VHV flush with edge of wall
- Attach every 8" on flange that is directly over stud/framing)
- Repeat every 16" across the wall

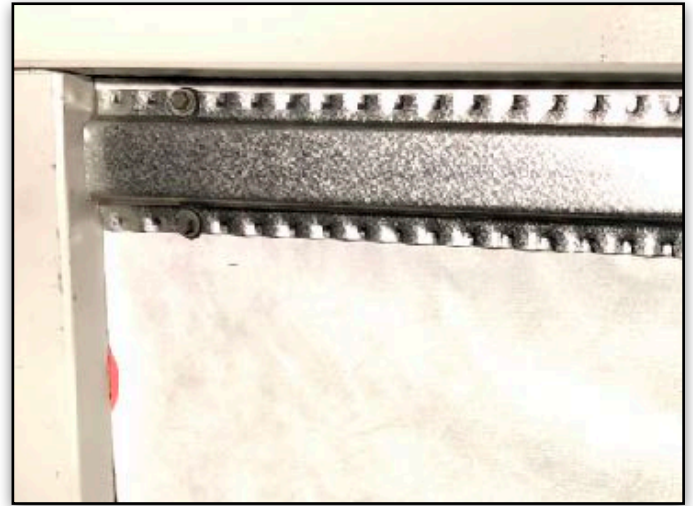




**ABOVE AND BELOW OPENINGS**  
(windows, doors, etc)

**BELOW OPENINGS**

- Measure 2-5/8" down (3" if using 3/4" FM3-VHV) from the bottom of the trim on both sides of the opening (this leaves 1/4" gap for venting)
- Snap a chalkline from one end to the other (make sure line is level & straight)
- Measure & cut a piece of FM3-VHV to length
- Line up the **bottom** edge of FM3 strip with chalk line
- Attach with two fasteners (one on each flange) every 16" into the framing



**ABOVE OPENINGS**

- Measure 2-5/8" up (3" if using 3/4" FM3-VHV) from the top of the flashing on both sides of the opening (this leaves 1/4" gap for venting)
- Snap a chalk line from one end to the other (make sure line is level and straight)
- Measure & cut a piece of FM3-VHV to the length of the wall
- Line up the **bottom** edge of FM3-VHV with the chalk line
- Attach with two fasteners (one on each flange) every 16" into the framing

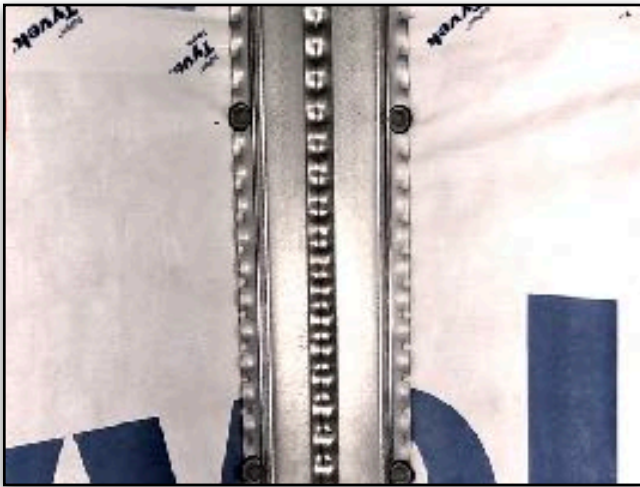






## INSIDE CORNER

- Repeat FM3 installation steps on one of the adjoining walls, making sure that the Vertical edge of FM3-VHV is flush with the edge/corner of the wall
- Repeat FM3 installation steps on the adjoining wall, making sure that the Vertical edge of FM3-VHV is flush with the edge/corner of the wall



## OUTSIDE CORNER

- Repeat FM3 installation steps on one of the adjoining walls, making sure that the Vertical edge of FM3-VHV is flush with the edge/corner of the wall
- Repeat FM3 installation steps on the adjoining wall, making sure that the Vertical edge of FM3-VHV is flush with the edge/corner of the wall



## TOP VENT

- Measure 2-5/8" down (3" if using 3/4" FM3-VHV) from the soffit on both sides of the wall, make a mark
- Snap a chalkline from one mark to the other (make sure line is level & straight)
- Measure & cut a piece of FM3-VHV to the length of the wall
- Line up the **bottom** edge of FM3 strip with chalk line
- Fasten into framing member every 16" on top **AND** bottom flange

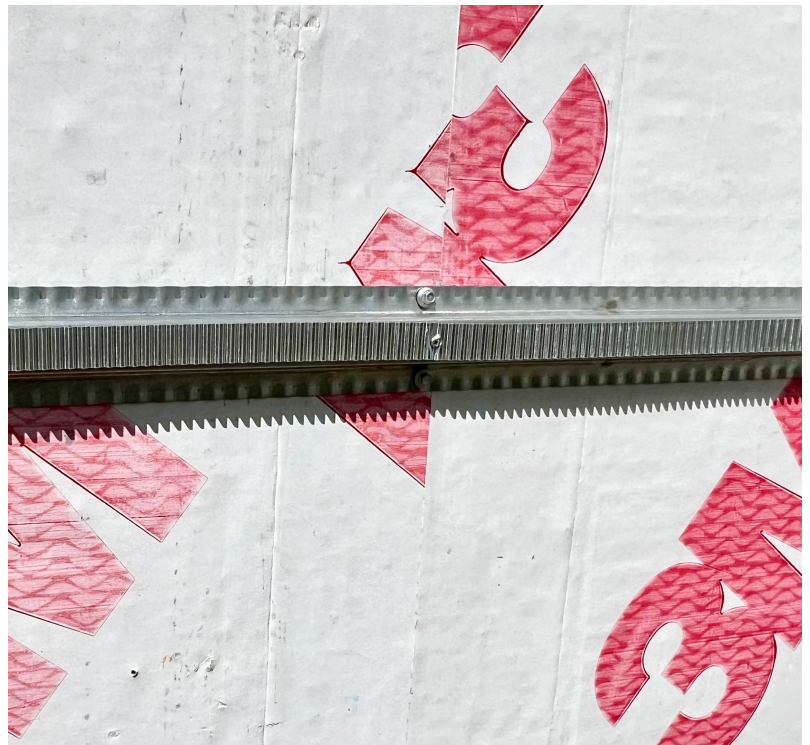


## **FOR INSTALLATION OF FM4-MAXFLOW:**

Follow the above instructions for installing the FM3-VHV hat channels, and then attach the additional corrugated Roll-On Rainscreen strip on top of the hat channel using one of the following methods:

### **If mechanically fastening:**

- Cut a strip of Roll-On Rainscreen to the desired length and place it over the installed FM3-VHV hat channels
- Fold one end of the strip under the FM3-VHV hat channel to temporarily hold in place
- Fasten the folded end of the strip to the FM3-VHV hat channel using a panhead self-tapping sheet metal screw
- Line up the remaining length of ROR strip and stretch the ROR strip so that it is taut
- Fasten to the FM3-VHV hat channel every 16"-24" so that the strip remains taut using panhead self-tapping sheet metal screws
  - \*\*make sure these fasteners do not interfere with cladding fasteners
  - \*\*keep strip taut to avoid slack





### If adhering:

- Roll-On Rainscreen will come with 3M™ VHB™ Architectural Panel Tape pre-applied
- Cut a strip of Roll-On Rainscreen to the desired length
- Prepare the surface of the FM3-VHV hat channel by wiping in one direction with 3M™ Adhesion Promoter 111 or 70% isopropyl alcohol
- Peel a small section of the 3M™ VHB™ tape liner back about 3" to attach one end of the ROR strip
- Line up remaining length of ROR strip and stretch the ROR strip so that it is taut & centered
- Keeping centered, slowly remove remaining VHB tape liner while simultaneously applying pressure as you move from one end to the other
  - \*\*keep strip taut to avoid slack
- Apply at least 15psi pressure with roller to activate VHB™ bond
  - \*\*pull on ROR strip to confirm that proper adhesion has occurred

