Installation Guide

Product Description

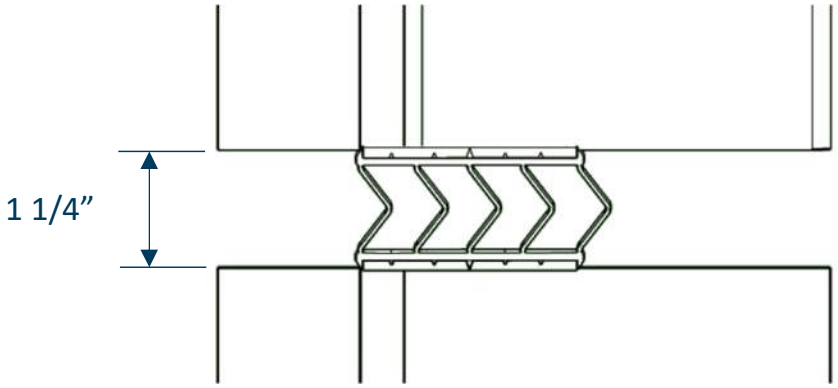
ISEAL EP (Exterior Panel) is a compressed fit extruded silicone gasket system developed specifically for STO panel technology. ISEAL EP is for above grade exterior wall panel conditions, it provides air and water infiltration protection, and is not susceptible to UV damage. The system consists of extruded silicone gaskets that are adhered to the substrate/panels with DOW silicone sealant. The proprietary ISEAL EP Exoskeletal 4-way Splice is used at all splices to ensure continuity of performance at splices.

- General Information
- Shop Installation
- Site Installation

The information contained in this Guide is intended to be used as a general guideline only and does not replace the judgment and designs of a qualified architect and/or engineer. Product, application renderings and photographs are provided as a tool to show the general intent of the seal system application only. These renderings or photographs may or may not be applicable to a specific project. They do not replace or supersede the architect or engineer of record, national or local building codes, or approved industry standards. The information herein may be changed or modified without prior notice or obligation.

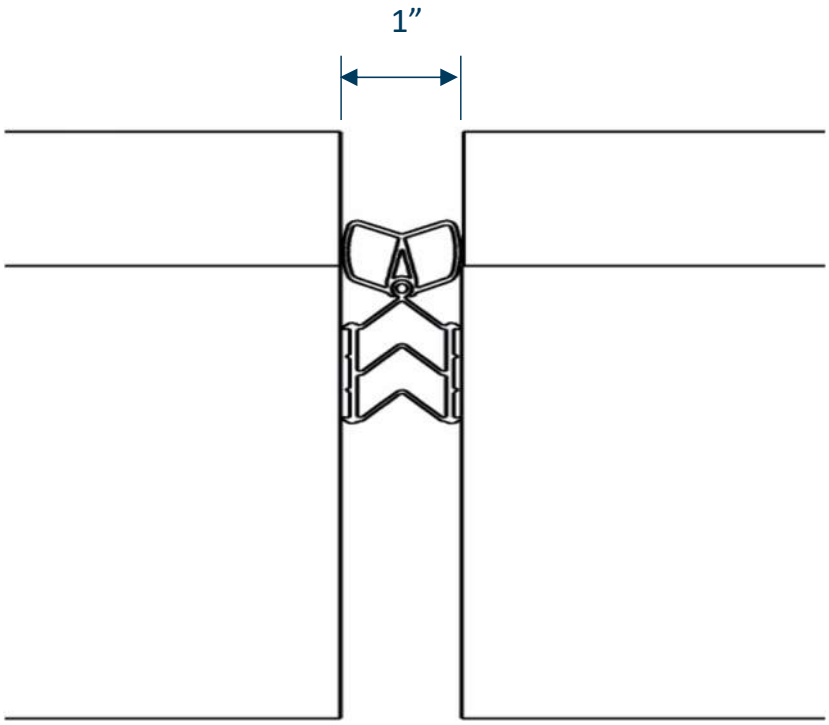
Note: Nominal Joint Setting of 1 1/4”

TYPICAL HORIZONTAL JOINT



Note: Nominal Joint Setting of 1”

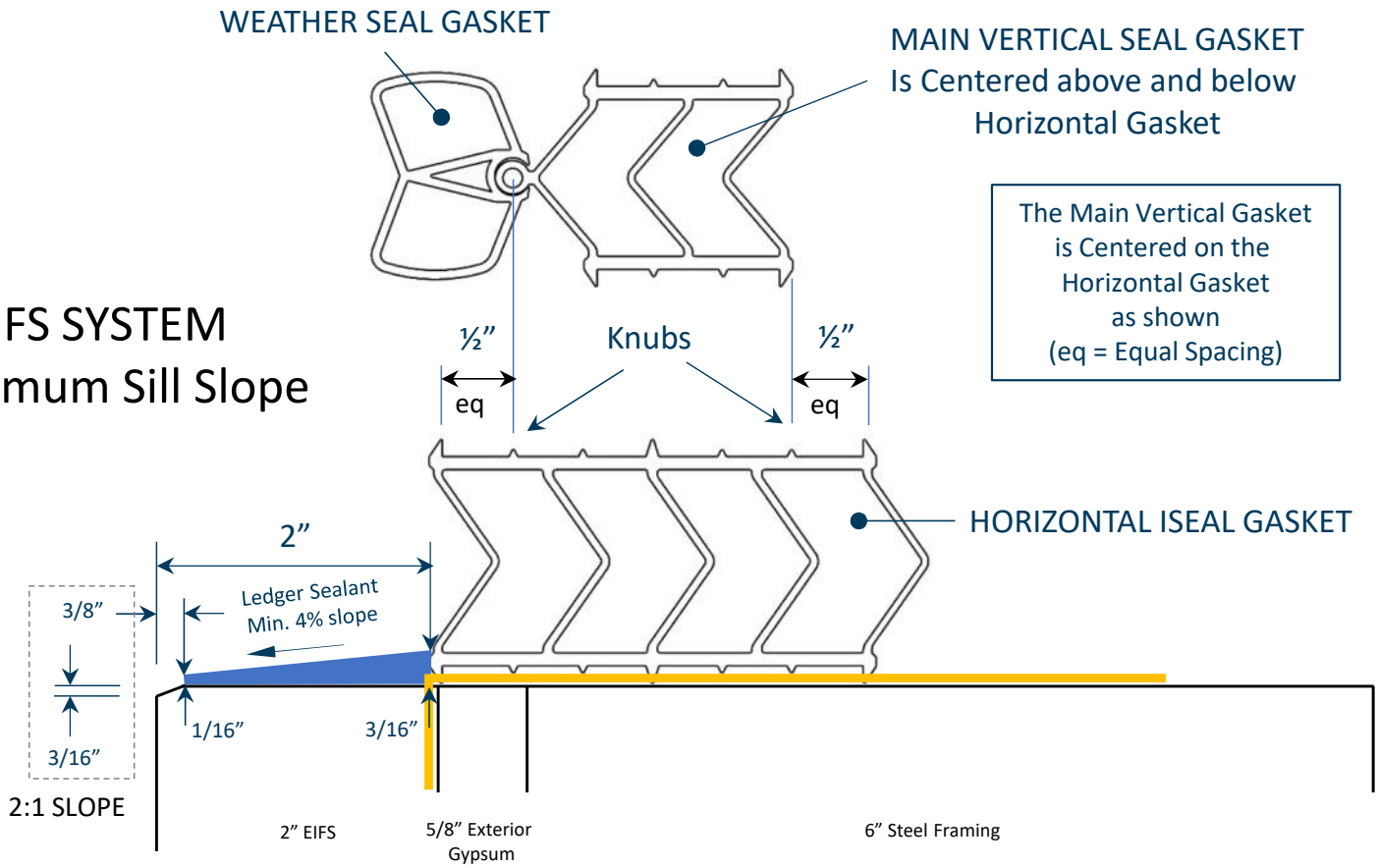
TYPICAL VERTICAL JOINT



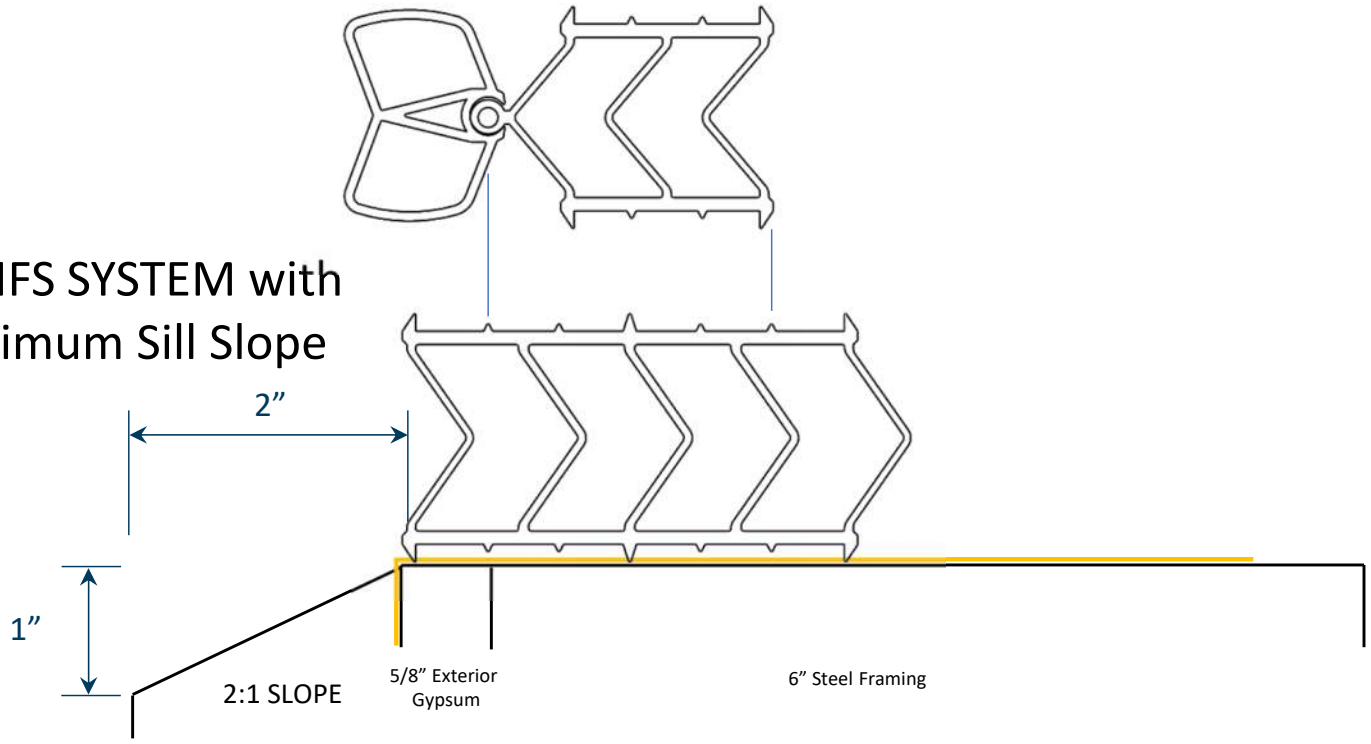
GASKET ARRANGEMENTS

= LINE OF WEATHER BARRIER

2” EIFS SYSTEM Minimum Sill Slope



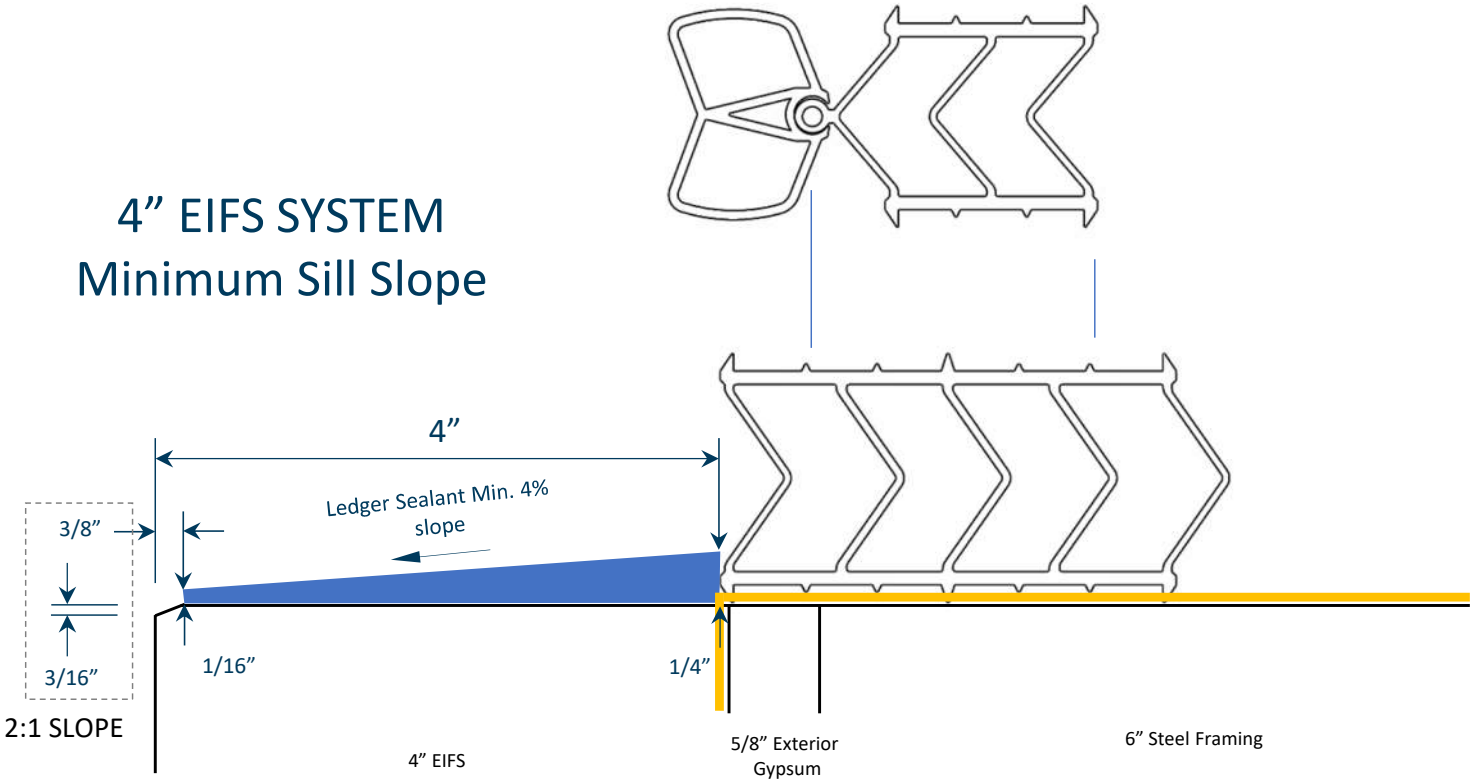
2” EIFS SYSTEM with Maximum Sill Slope



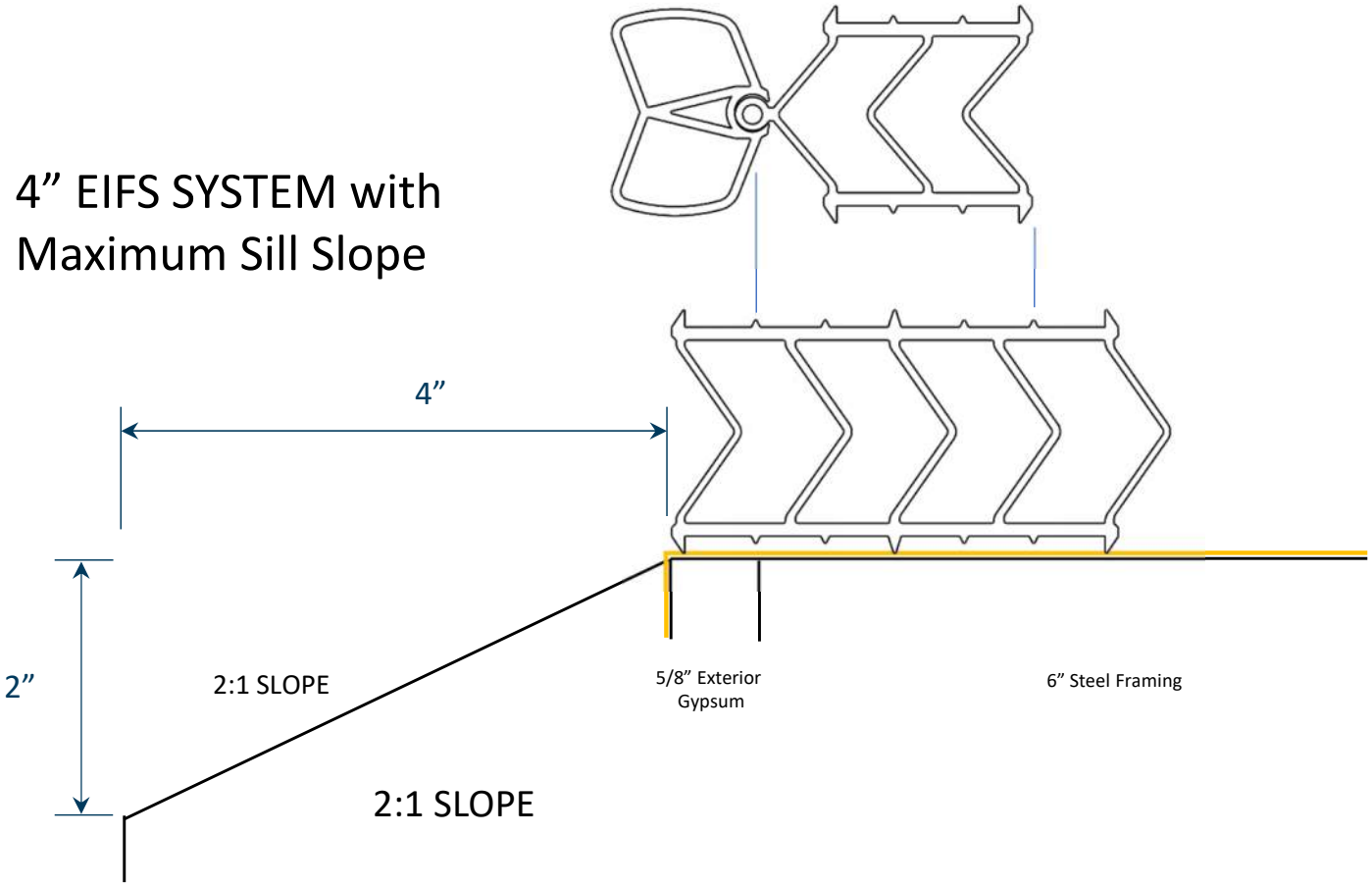
GASKET ARRANGEMENTS

= LINE OF WEATHER BARRIER

4” EIFS SYSTEM Minimum Sill Slope



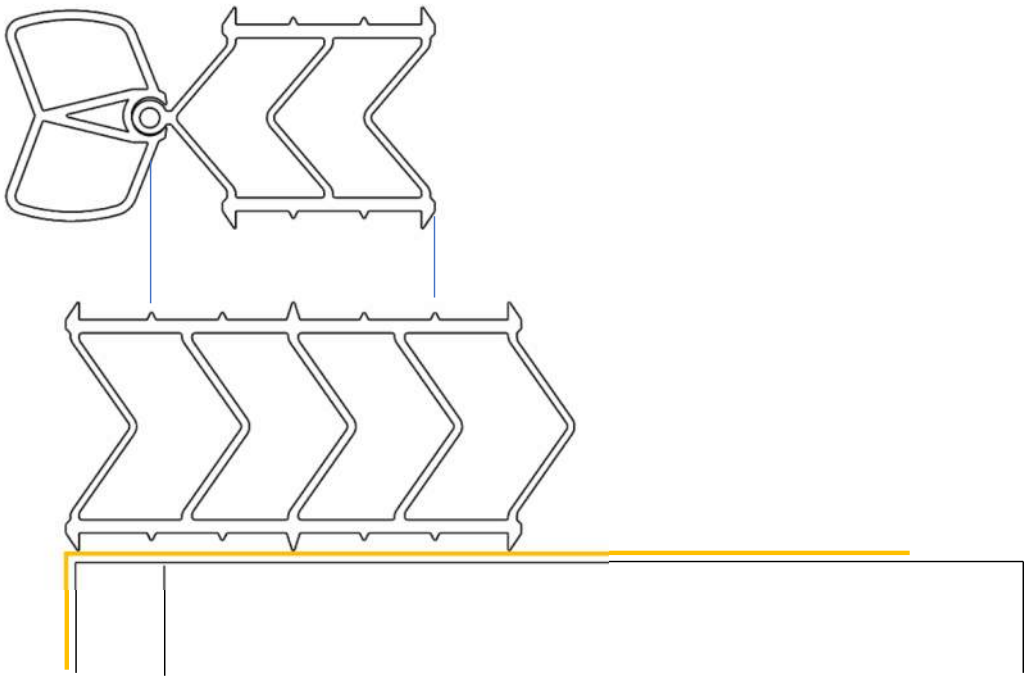
4” EIFS SYSTEM with Maximum Sill Slope



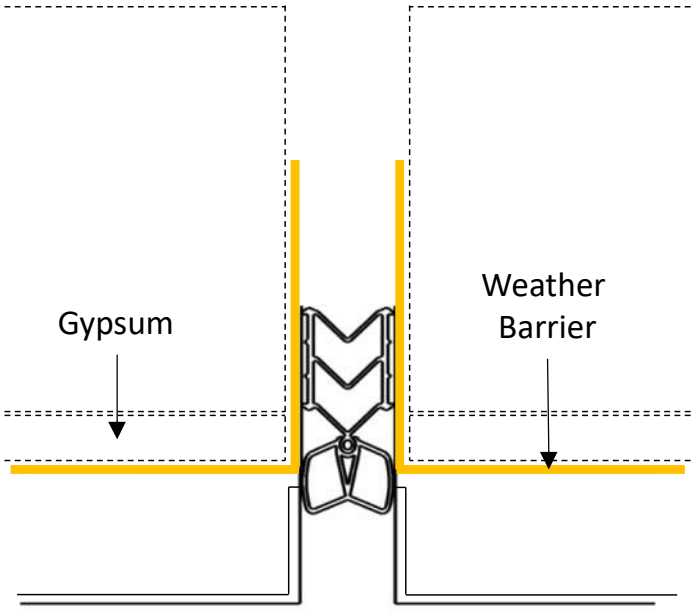
GASKET ARRANGEMENTS

= LINE OF WEATHER BARRIER

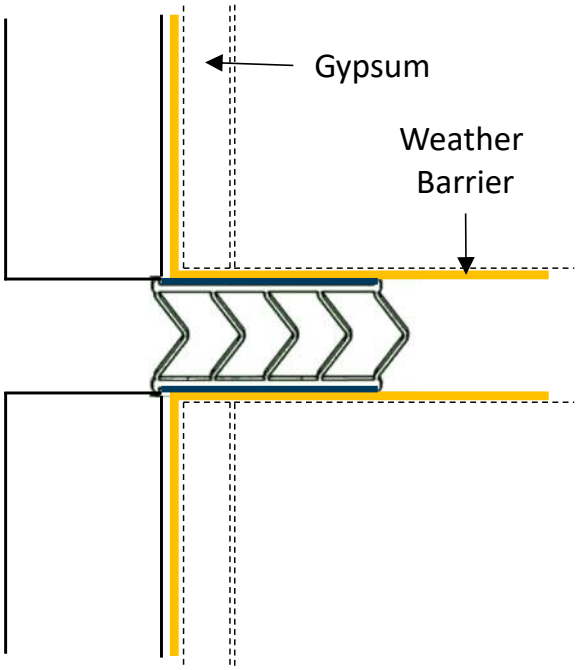
BACK-UP SYSTEM



Back-up Panel Weather Barrier

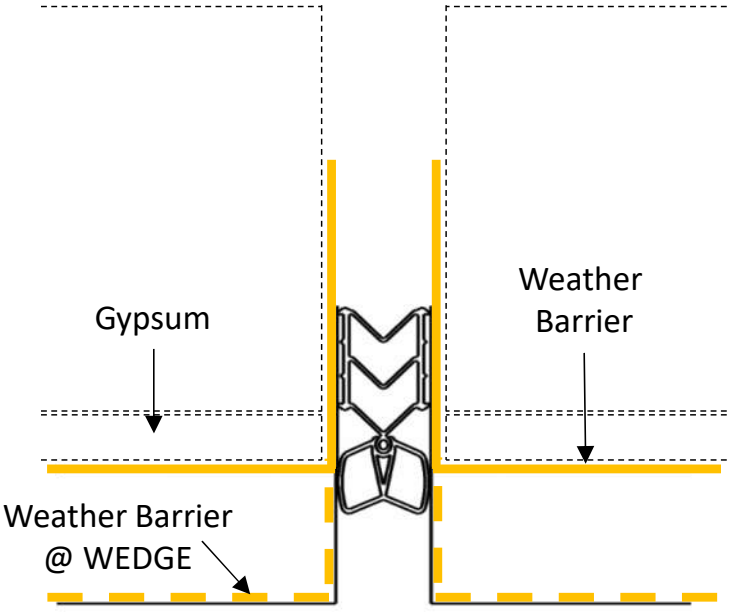


VERTICAL SEAL / WEATHER BARRIER
FOR BACK-UP PANEL

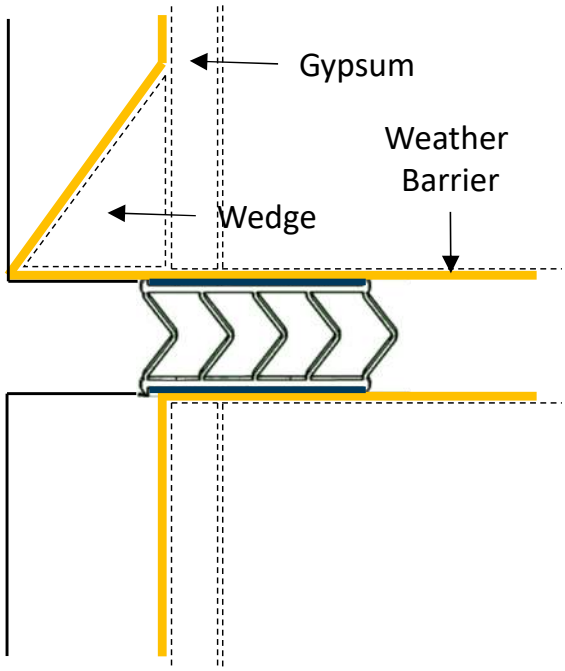


HORIZONTAL SEAL / WEATHER BARRIER
FOR BACK-UP PANEL

EIFS Panel Weather Barrier



VERTICAL SEAL / WEATHER BARRIER
FOR EIFS PANEL

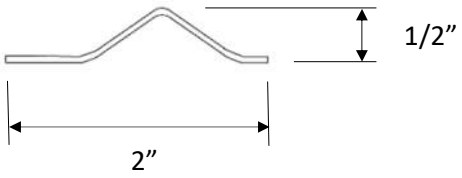


HORIZONTAL SEAL / WEATHER BARRIER
FOR EIFS PANEL

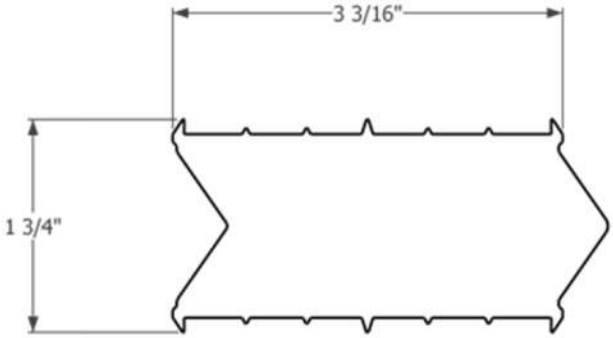
ISEAL Gasket Geometry

NOTE: All dimensions show gaskets in non-compressed condition

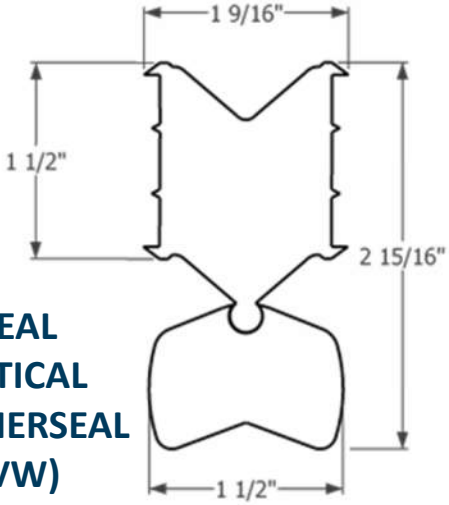
ISEAL HORIZONTAL SPLICE (IHS)



ISEAL HORIZONTAL BASE (IHB)



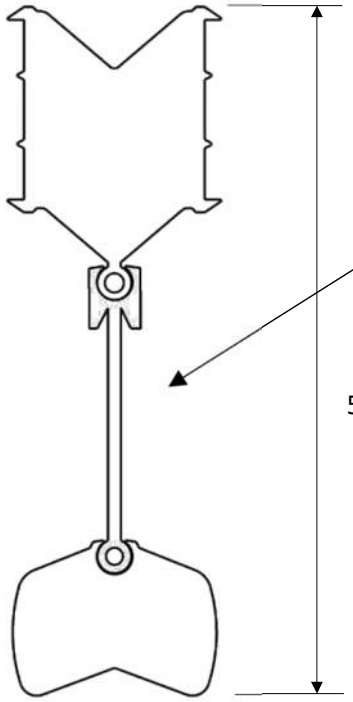
ISEAL VERTICAL BASE (IVB)



ISEAL VERTICAL WEATHERSEAL (IVW)

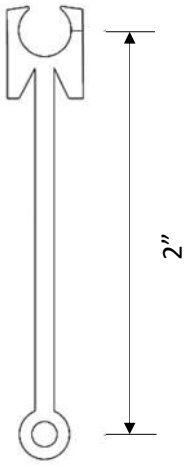
2” EIFS System

ISEAL VERTICAL BASE (IVB)



4” EIFS System

Extension (IVE)



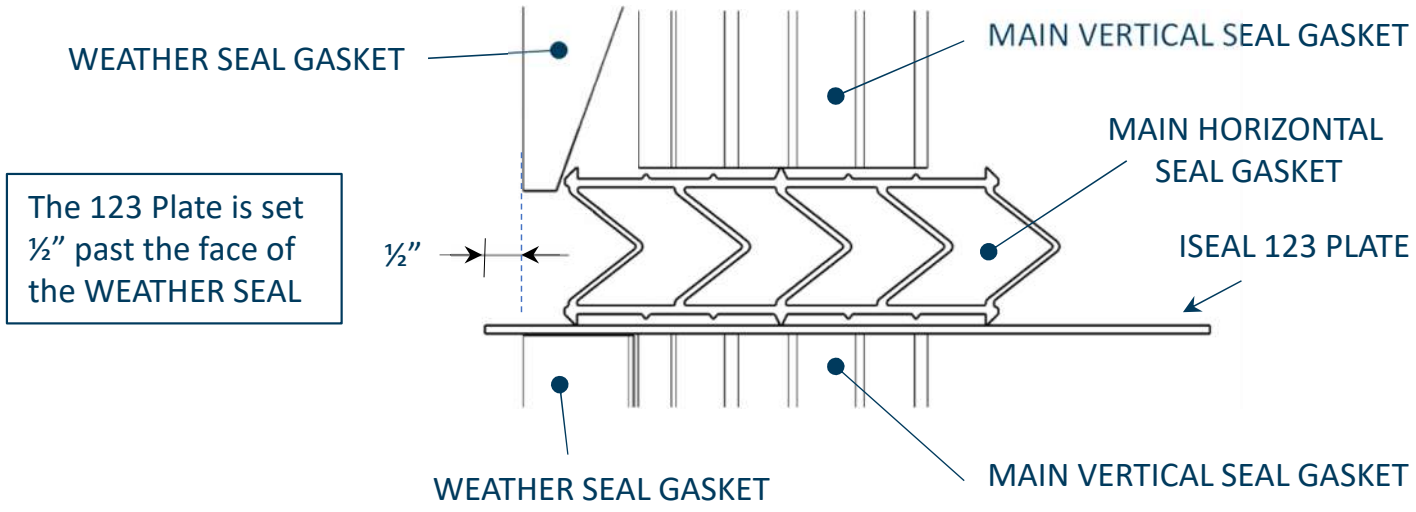
ISEAL VERTICAL WEATHERSEAL (IVW)

ISEAL EP GASKET PARTS				
	ITEM	DIMENSIONS		SKU
ISEAL EP / HORIZONTAL SEAL / BASE	IHB	3 3/16”	1 3/4”	IHB318751750
ISEAL EP / HORIZONTAL SEAL / SPLICE	IHS	1/16”	1 7/8”	IHS318751750
ISEAL EP / VERTICAL SEAL / BASE	IVB	1 1/2”	1 9/16”	IVB150001625
ISEAL EP / VERTICAL WEATHER SEAL	IVW	1 1/4”	1 1/2”	IVW112501500
ISEAL EP / VERTICAL WEATHER SEAL EXTENSION	IVE	1/8”	2”	IVE002503000
NOTE: STANDARD COLORS ARE GREY OR BLACK				

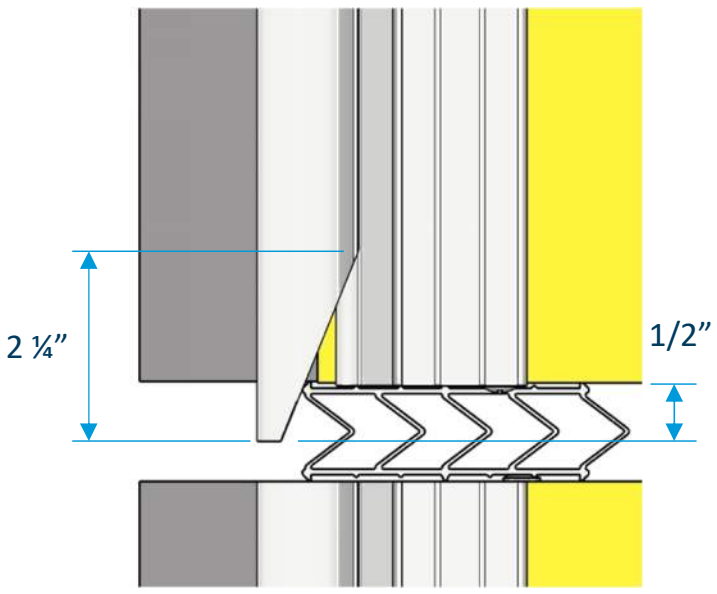
DOWSIL Materials

DOWSIL 795 SEALANT
DOWSIL 123, 4” width

GASKET ARRANGEMENTS

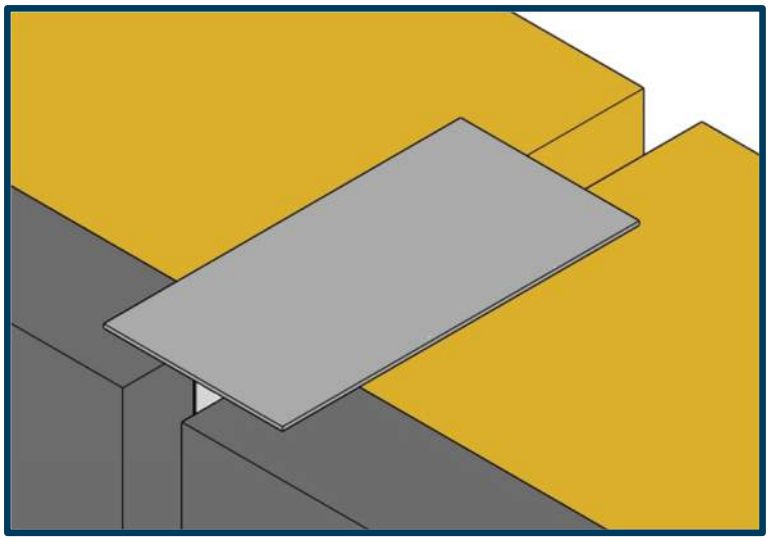


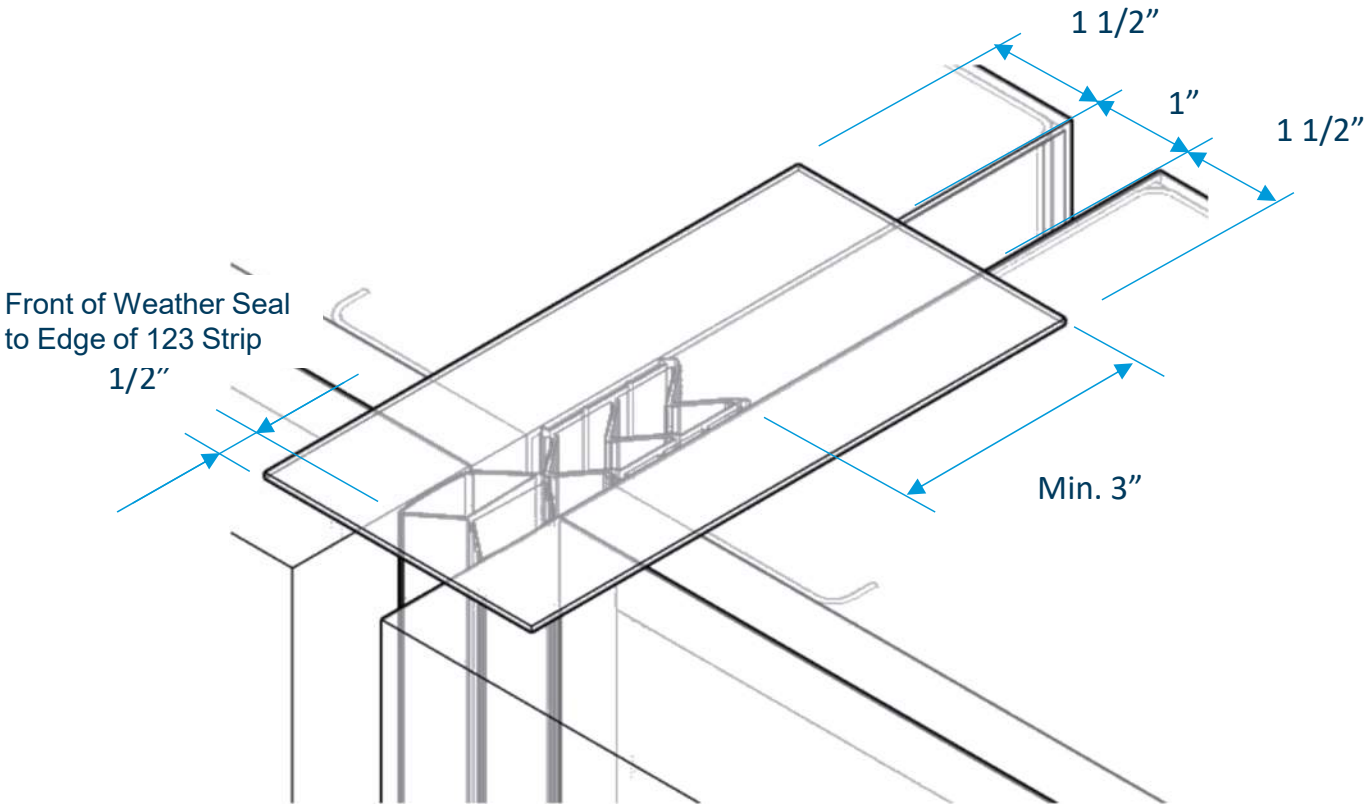
WEATHER SEAL SLOPE



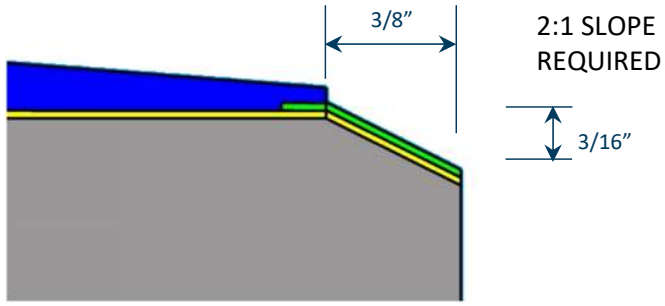
GASKET ARRANGEMENTS

123 PLATE BUTTERED TO TOP OF VERTICAL SEAL



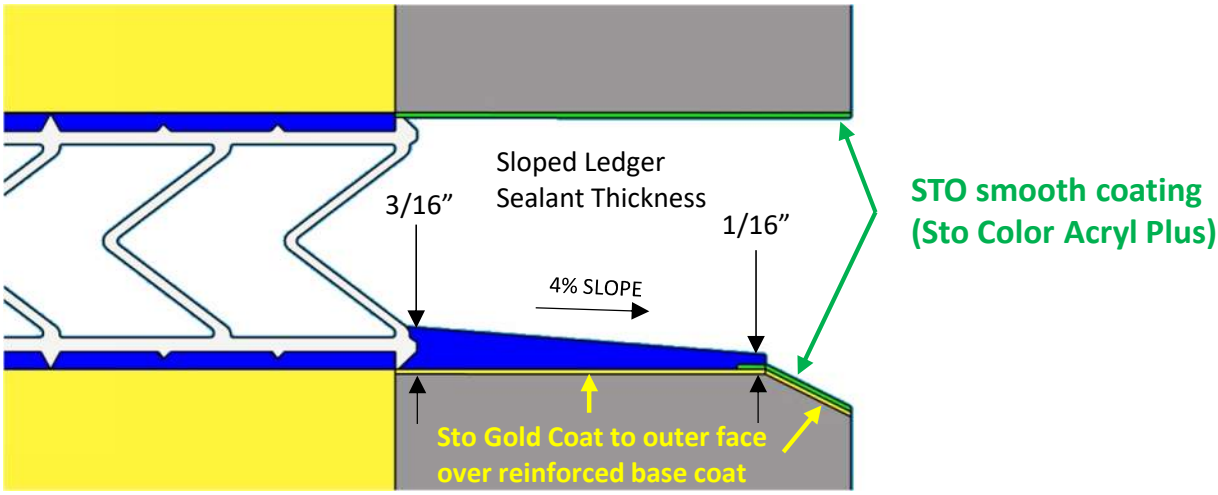


Sloped Sill EIFS Protection

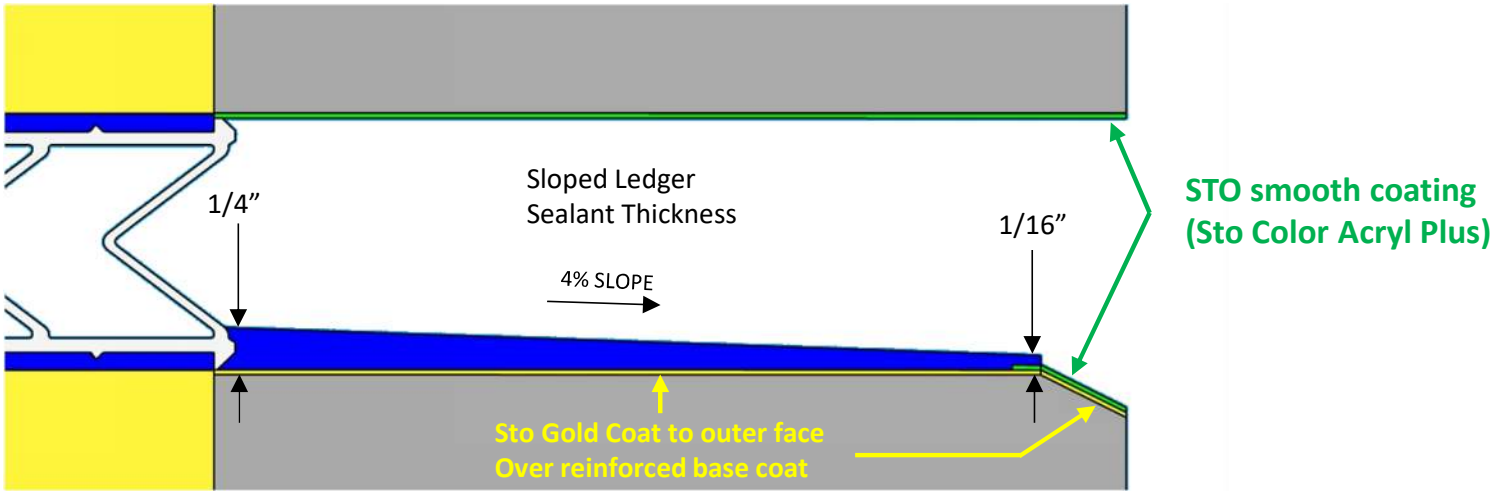


NOTES:
1. DOW 795 SEALANT
2. Consult STO for additional information
3. MINIMUM 2:1 Slope required at all EIFS protected Sills

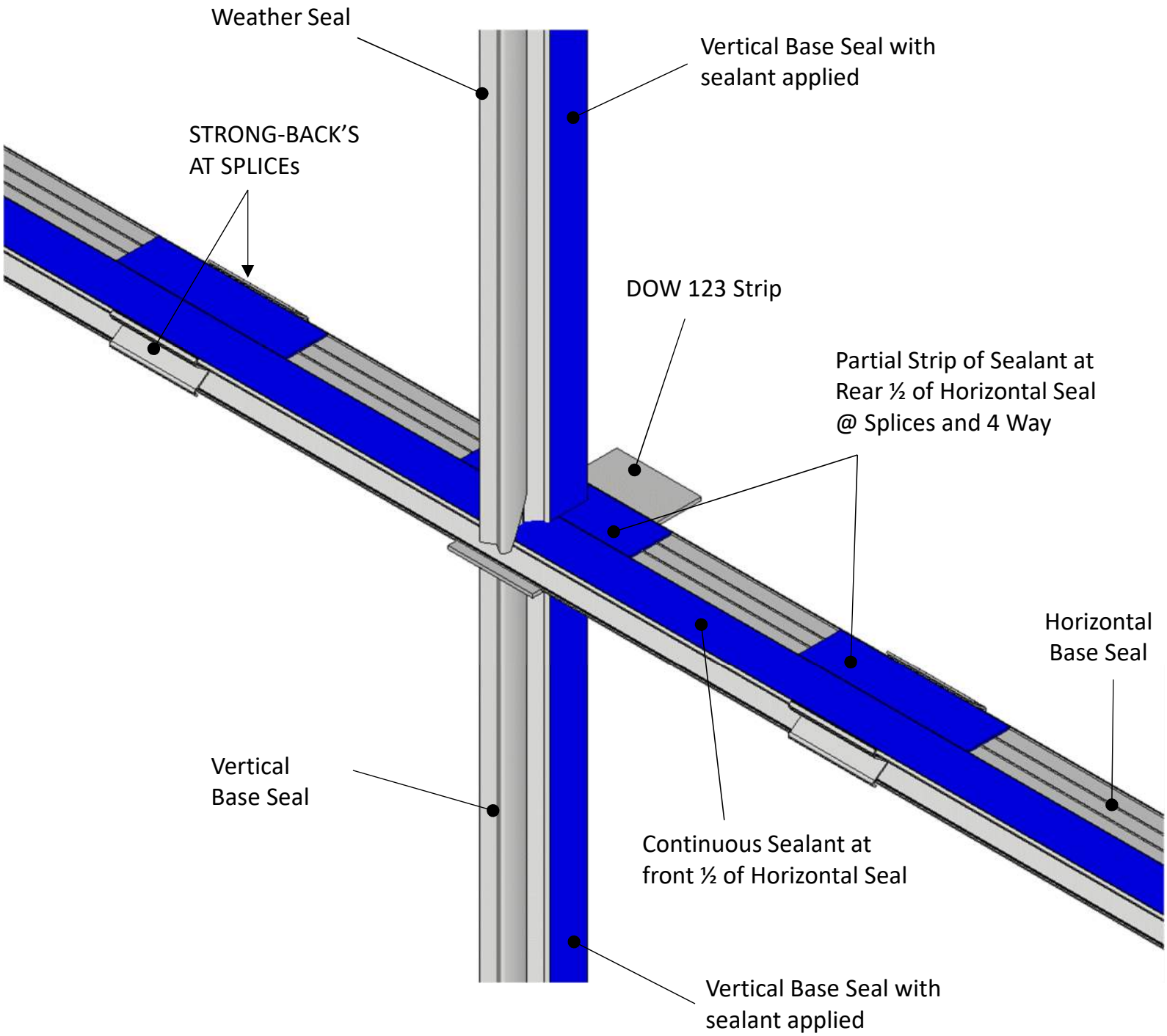
2” EIFS System



4” EIFS System

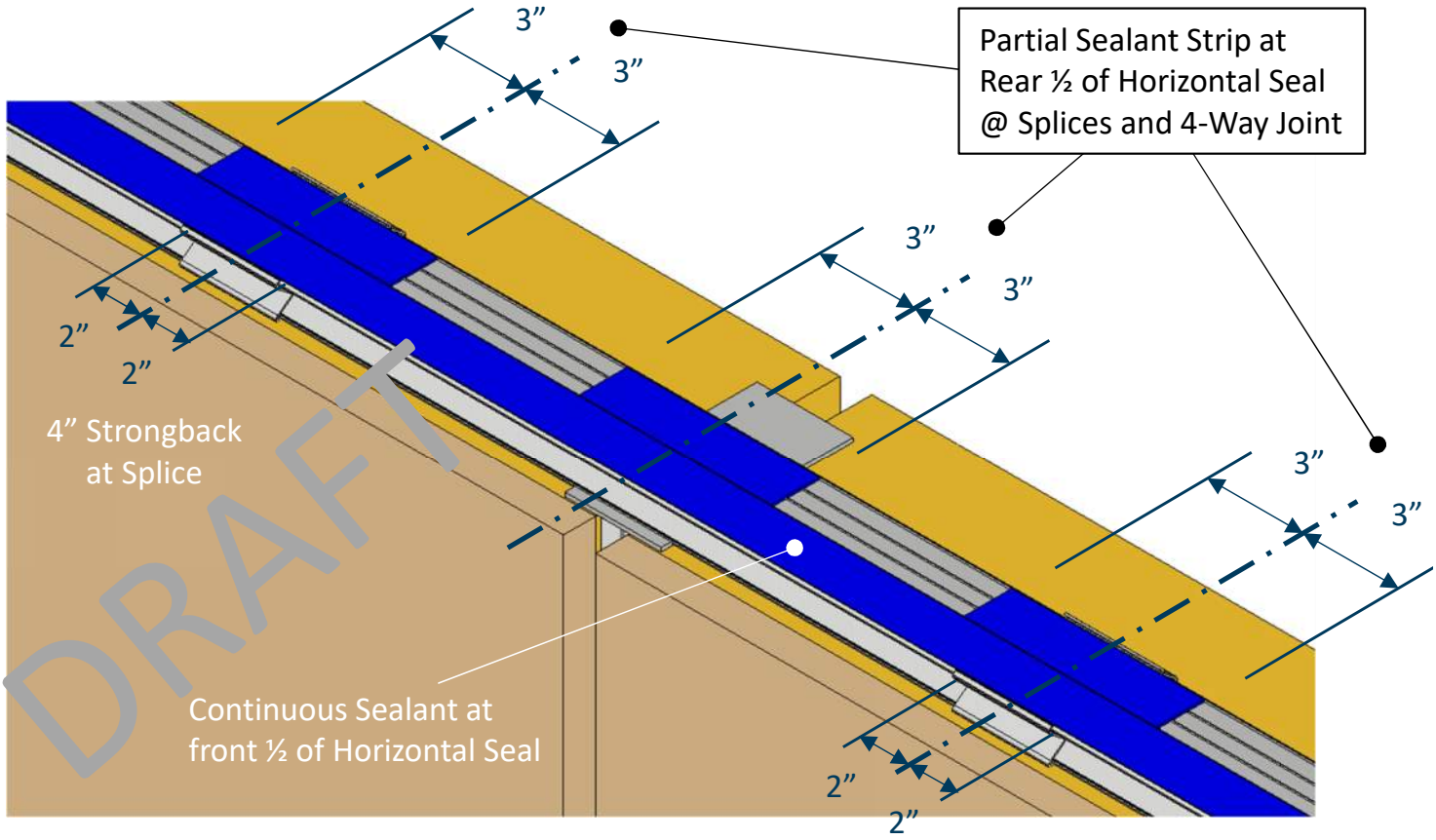


ISEAL TYPICAL SEALANT LOCATIONS

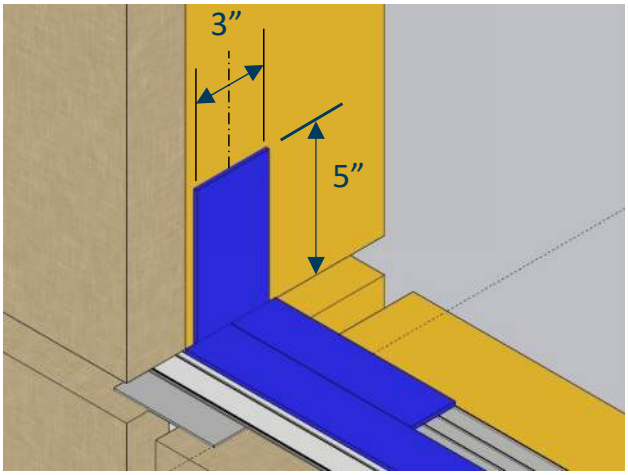


NOTE:
1. Use only Gasket Materials that are labelled as follows: ISEAL EP VERIFIED & INSPECTED
2. Sealant is DOWSIL 795 U.N.O.

ISEAL TYPICAL HORIZONTAL SEALANT



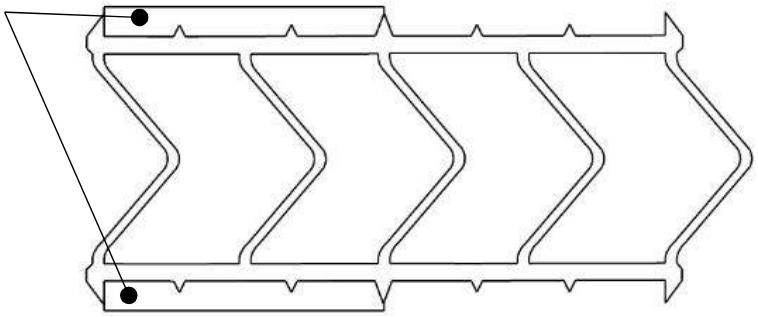
ISEAL TYPICAL SEALANT HEAL BEAD



NOTE:
1. Use only Gasket Materials that are labelled as follows: ISEAL EP VERIFIED & INSPECTED
2. Sealant is DOWSIL 795 U.N.O.

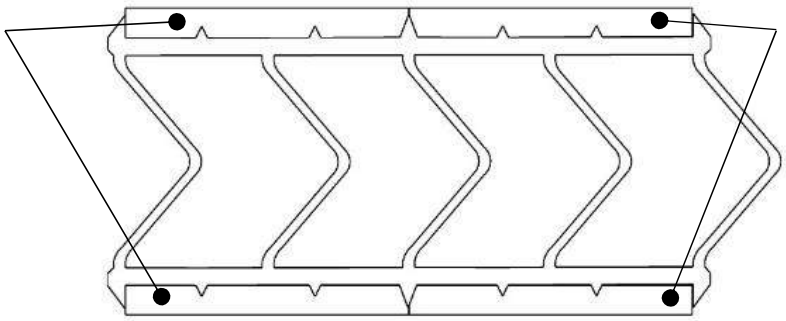
TYPICAL HORIZONTAL SEAL SECTION

Continuous Sealant at
front ½ of Horizontal Seal



HORIZONTAL SEAL SECTION @ 4 WAY JOINT

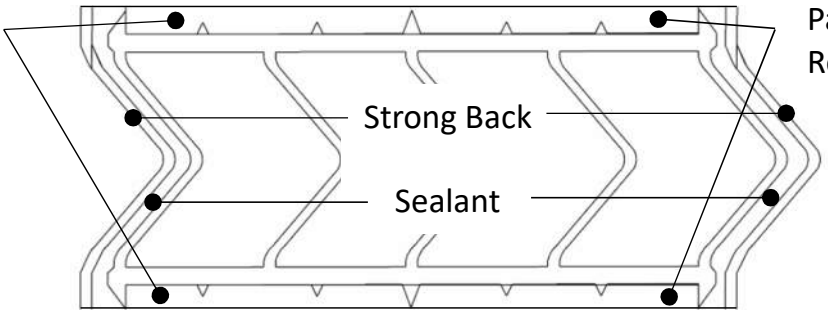
Continuous Sealant at
front ½ of Horizontal Seal



Partial Sealant Strip at
Rear ½ of Horizontal Seal

HORIZONTAL SEAL SECTION @ SPLICE

Continuous Sealant at
front ½ of Horizontal Seal



Partial Sealant Strip at
Rear ½ of Horizontal Seal

NOTE:
1. Use only Gasket Materials that are labelled as follows: ISEAL EP VERIFIED & INSPECTED
2. Sealant is DOWSIL 795 U.N.O.

SEALANT TOOLS

Whistle Tips for installing sealant IN-PLACE

SPLICE BLOCKS

GASKET HOLDER for making corners

BEVEL CUTTER

RECCOMENDED BASIC TOOLS TO PURCHASE

CAULKING GUN

CAULKING KNIVES

PAPER TOWELS & RAGS

UTILITY KNIVES

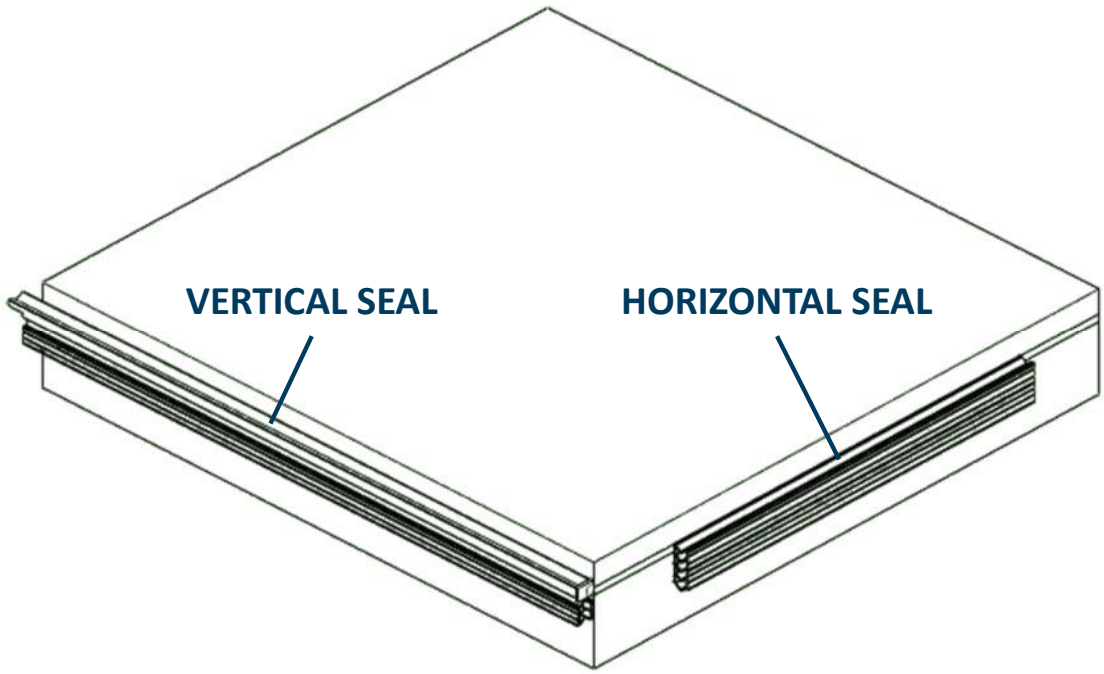
CLEANER

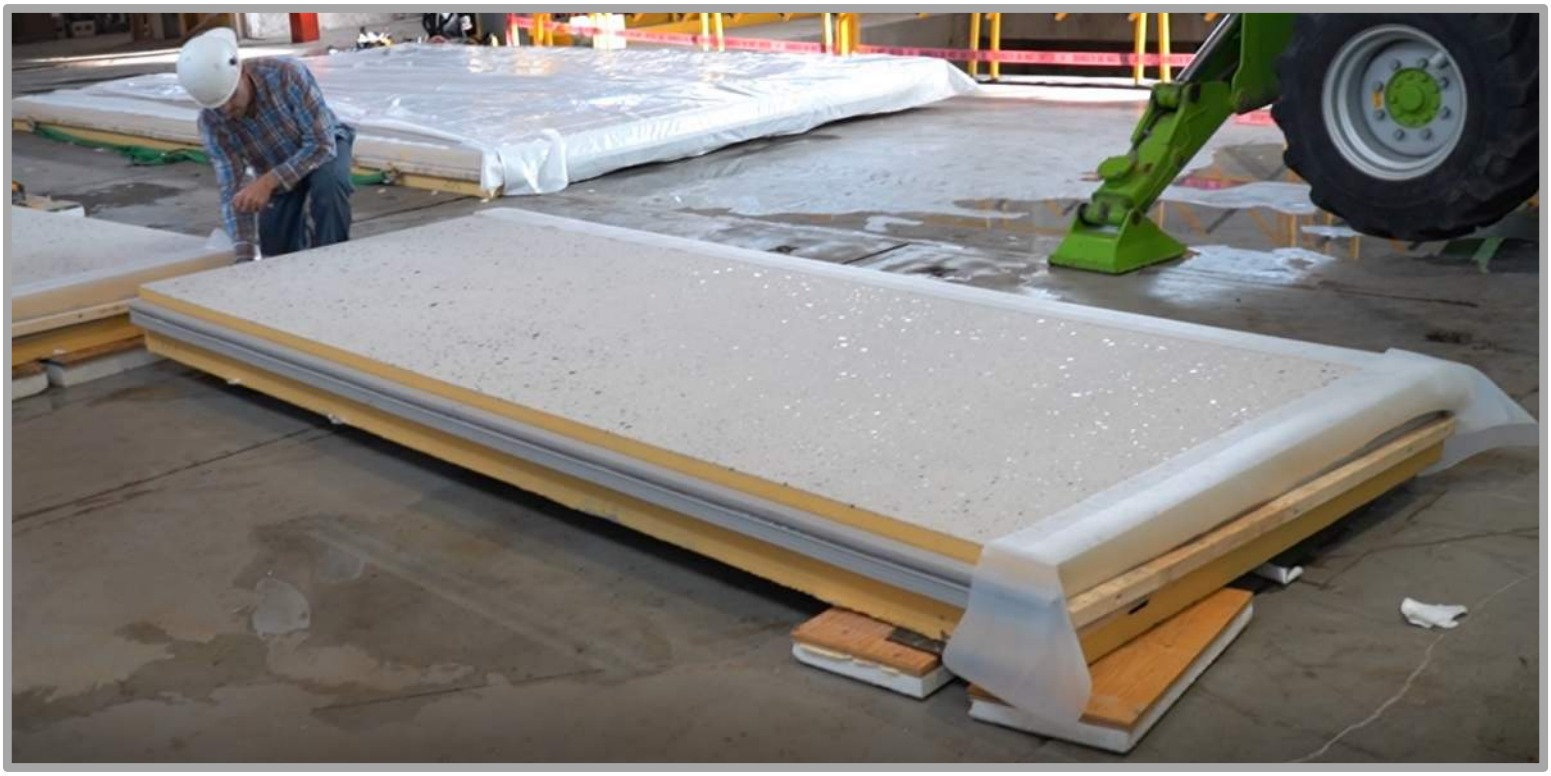
GASKET CUTTER
only required in shop

4” ROLLER

1. Battery powered caulking gun, Milwaukee M18 Cordless 20-oz Clear Barrel Caulk and Adhesive Gun Kit, “product # 2643-21CT” $ 339.oo
2. DOWSIL 795, 20 oz sausages, color BLACK
3. Standard caulking gun 10 oz, any brand $ 20.oo
4. DOWSIL 795, 10 oz cartridges, color BLACK
5. Caulking gun with clutch for sausages 20 oz, ALBION $ 135.oo
6. Large Utility Knife and spare blades
7. Caulking Tips
8. Caulking knife tool set $ 58.oo
9. Gasket Cutter CCS-350-S $ 2,265.00

PANELS ARRIVE ON SITE, SEALS CAN BE SUBSTANTIALLY INSTALLED IN THE PLANT





ASSEMBLE VERTICAL ISEAL GASKETS

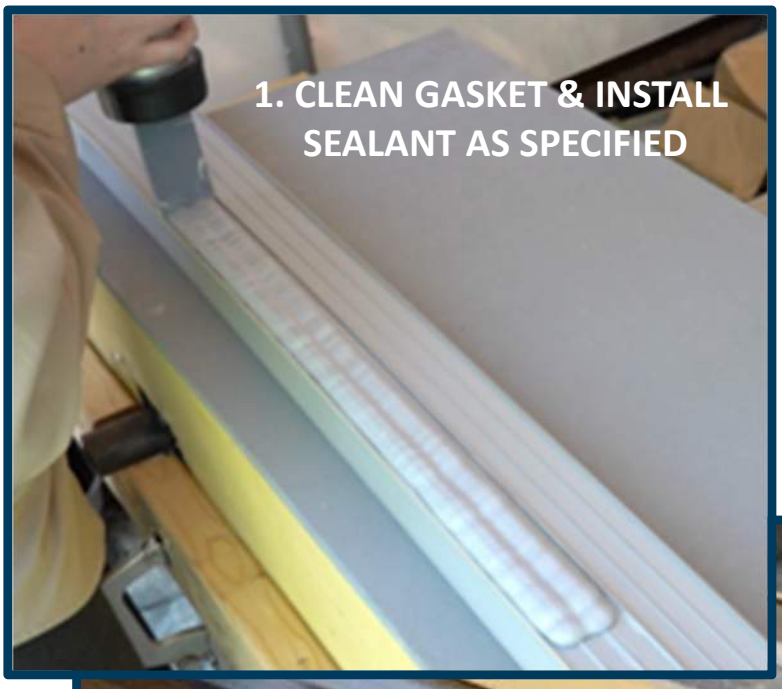
Assembled Vertical Gaskets

Place 1/8” bead of sealant continuous

Squeeze Weather Seal and push onto Main Vertical Seal

VERTICAL ISEAL GASKET

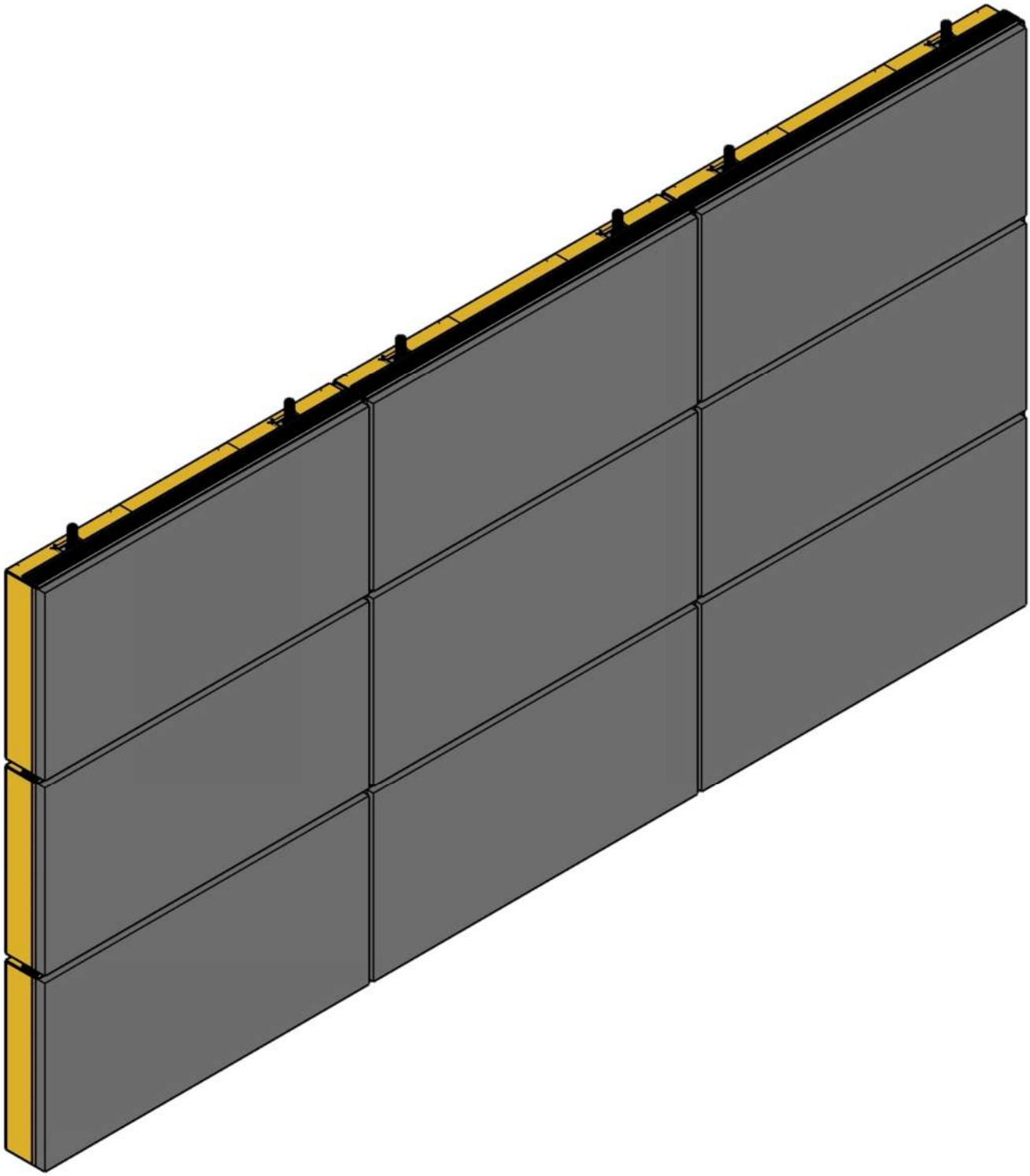
Gasket can also be SUPPORTED IN FINAL POSITION with a 2 X 4 clamped to panel



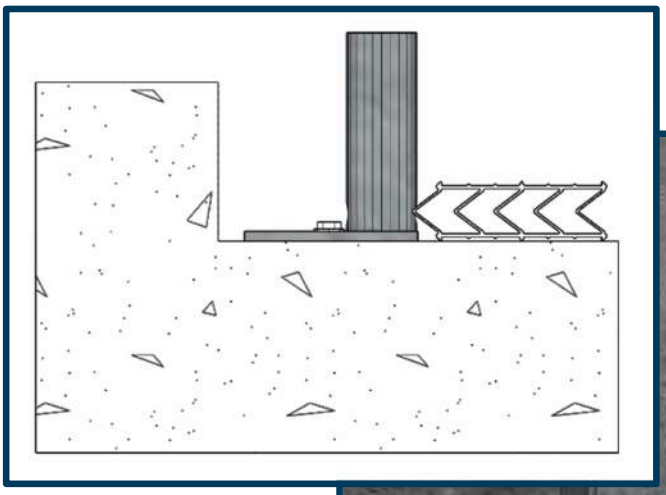
HORIZONTAL SEAL SYSTEM

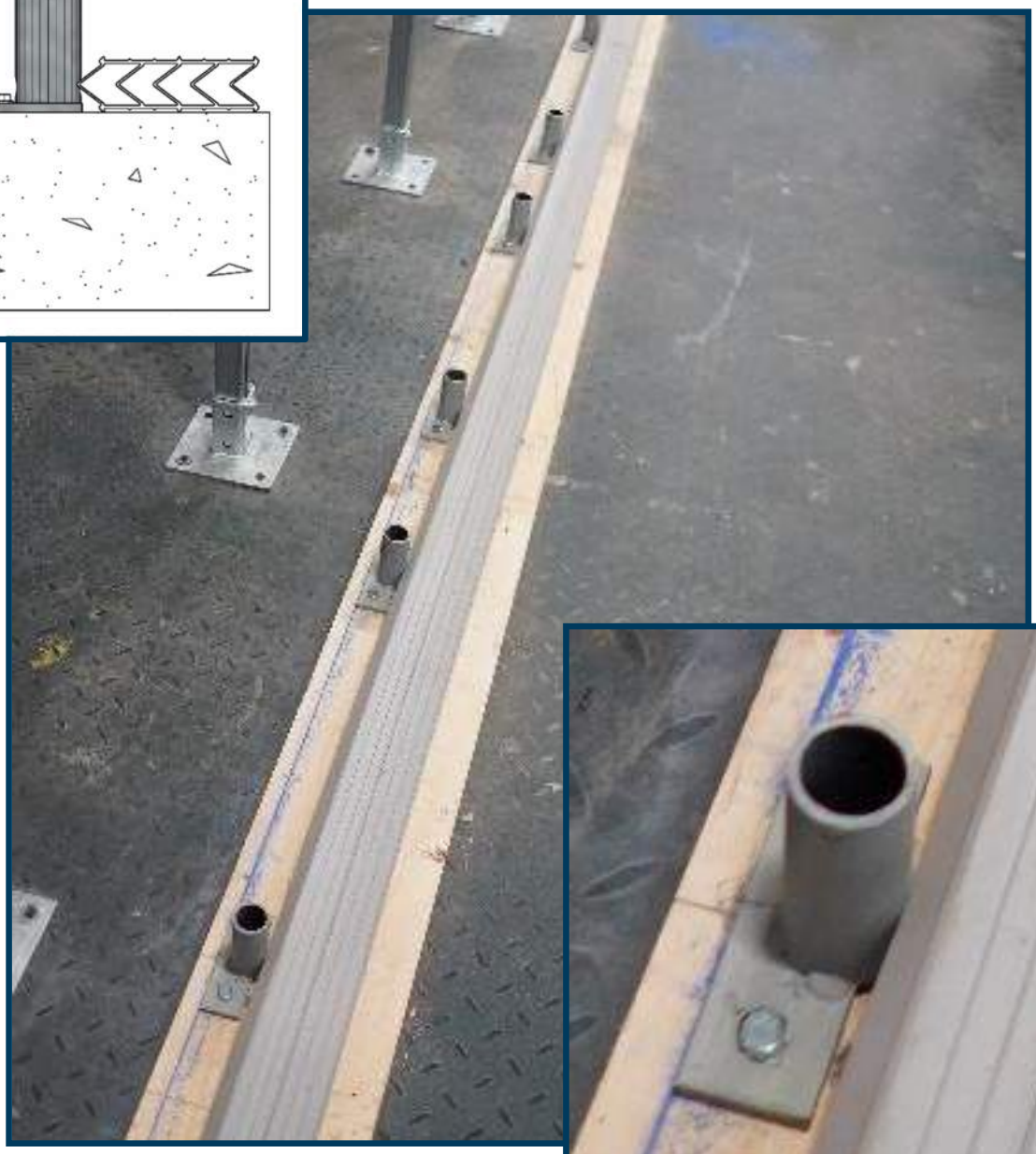
Gasket can also be SUPPORTED IN FINAL POSITION by using a 2 X 4 clamped to the panel

BUILD SMALL EXAMPLE WALL
TO SHOW TYPICAL CONSTRUCTION DETAILS

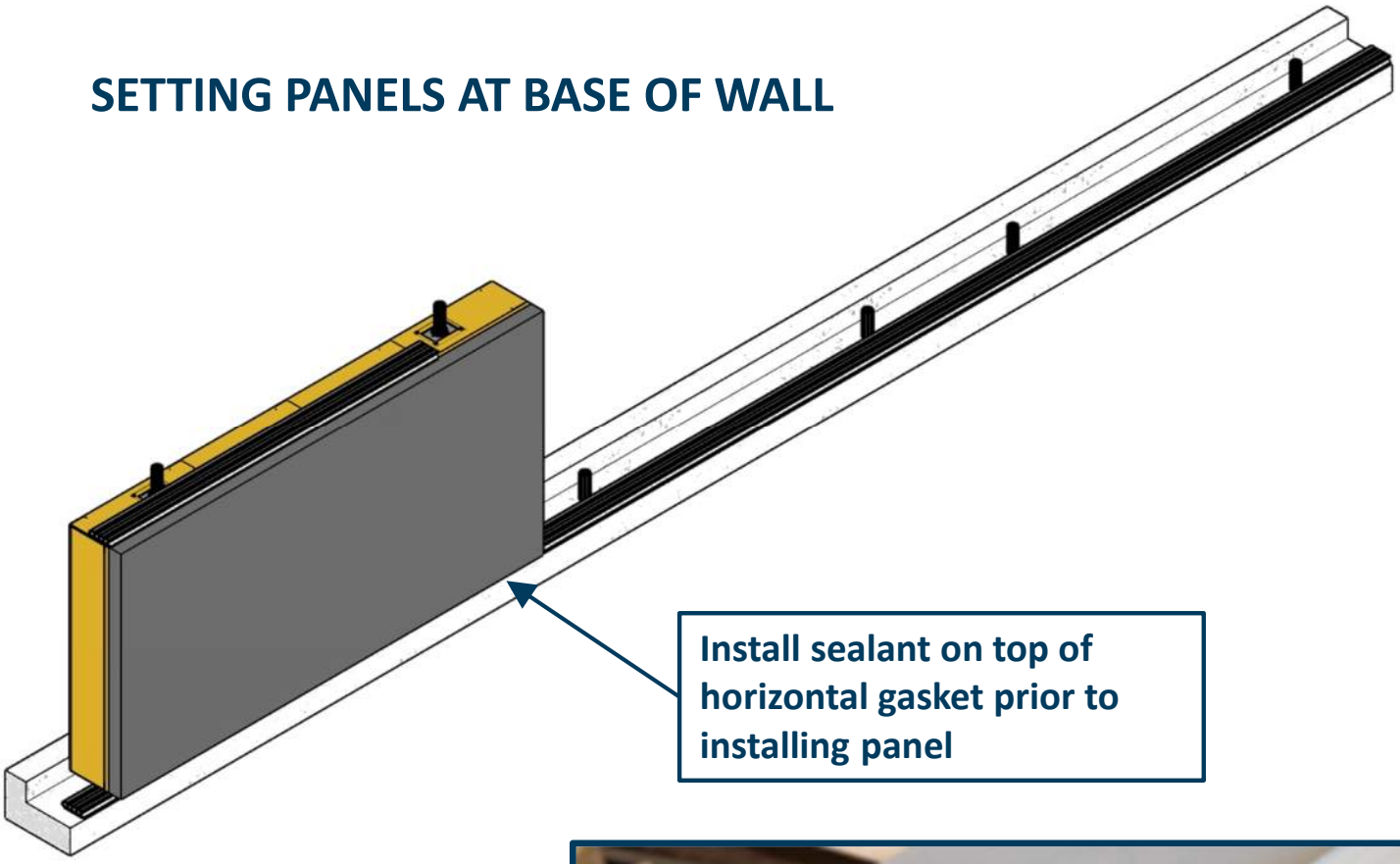


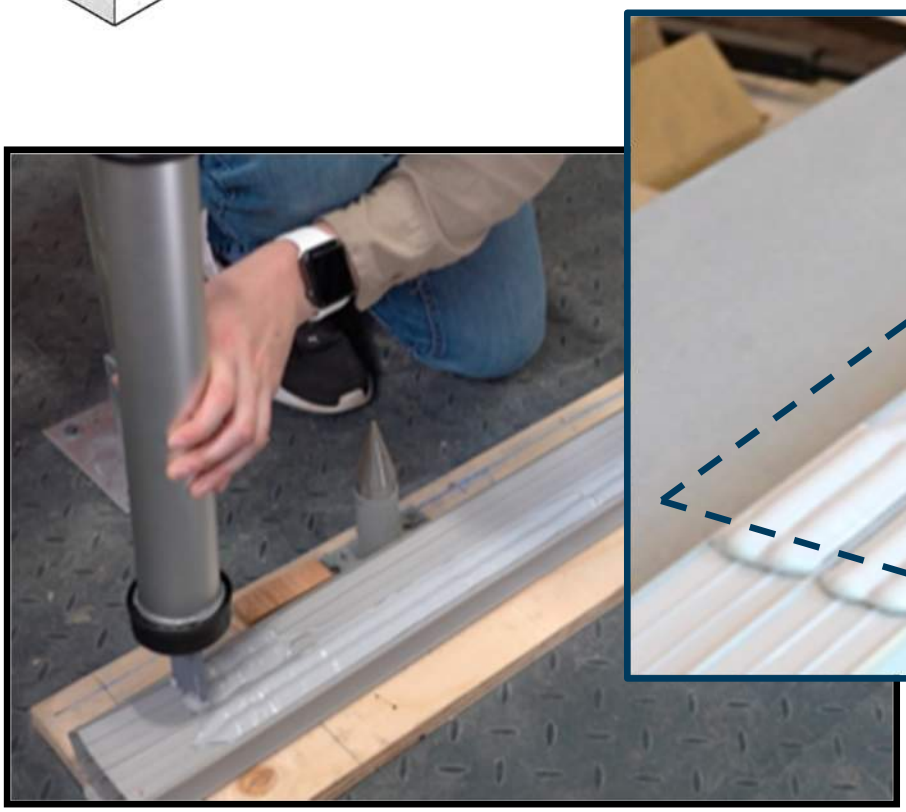
INSTALLING ISEAL GASKET AT BASE OF WALL

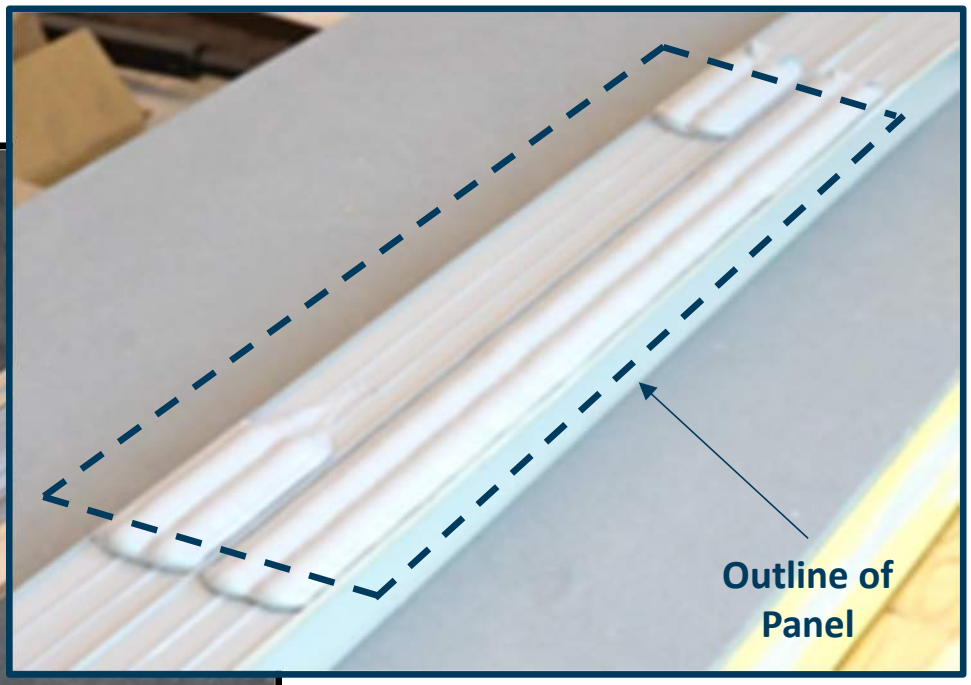




SETTING PANELS AT BASE OF WALL





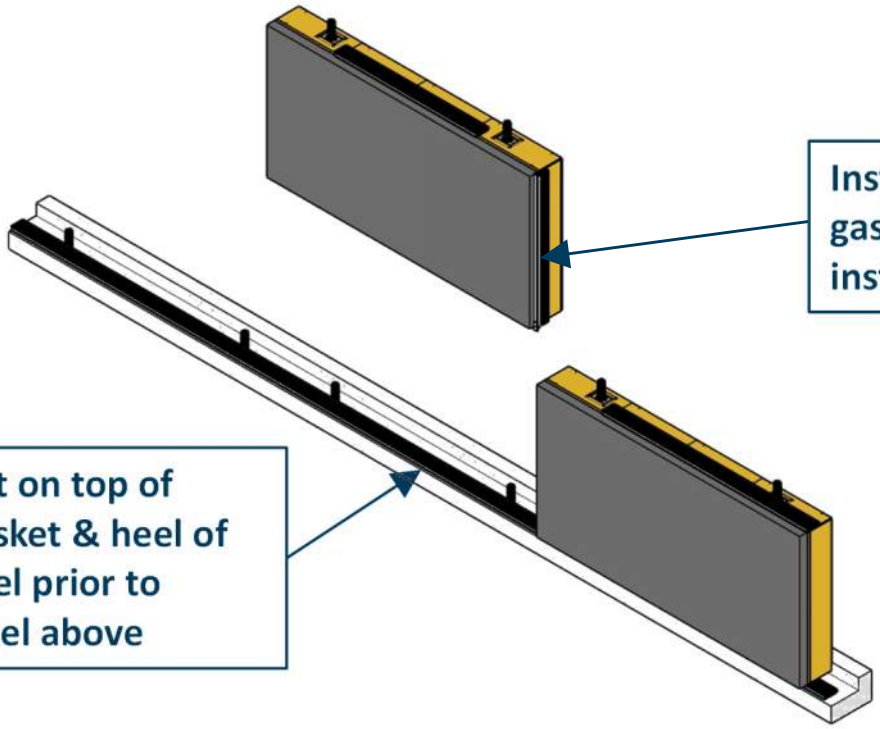


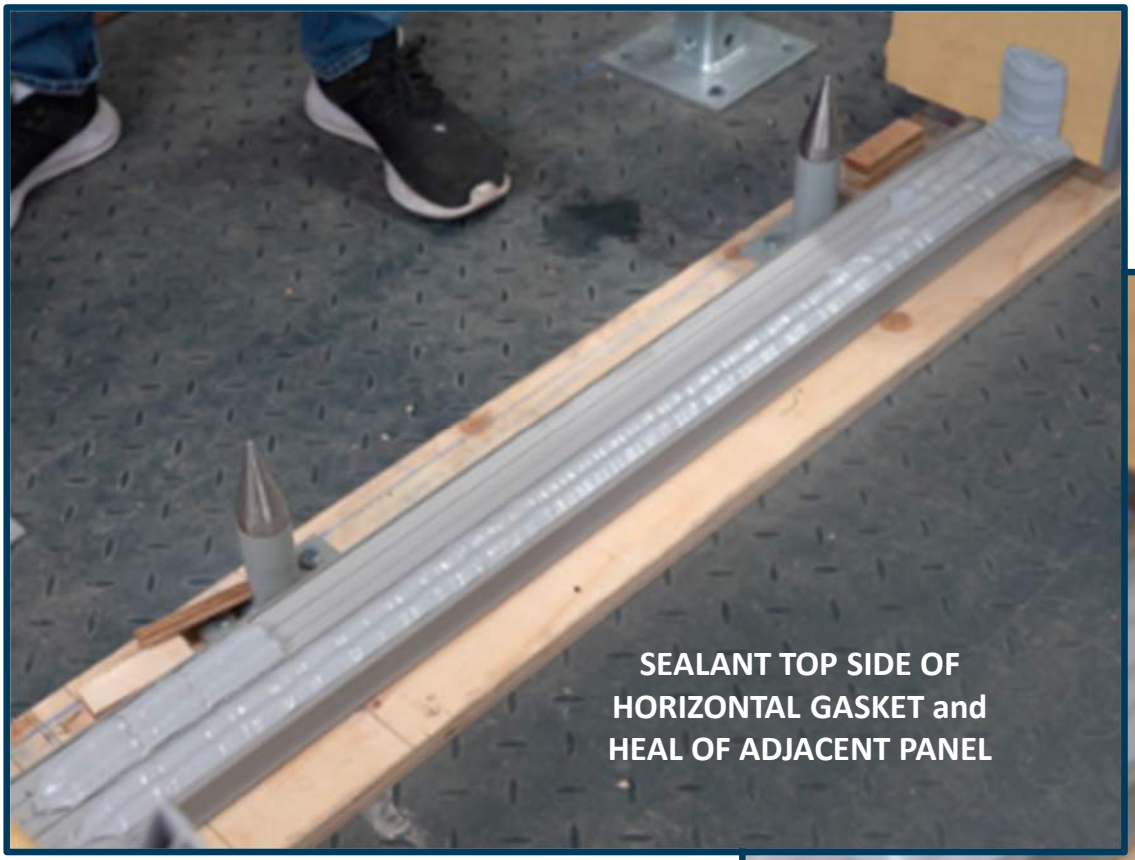
INSTALL SEALANT TOP SIDE OF HORIZONTAL GASKET

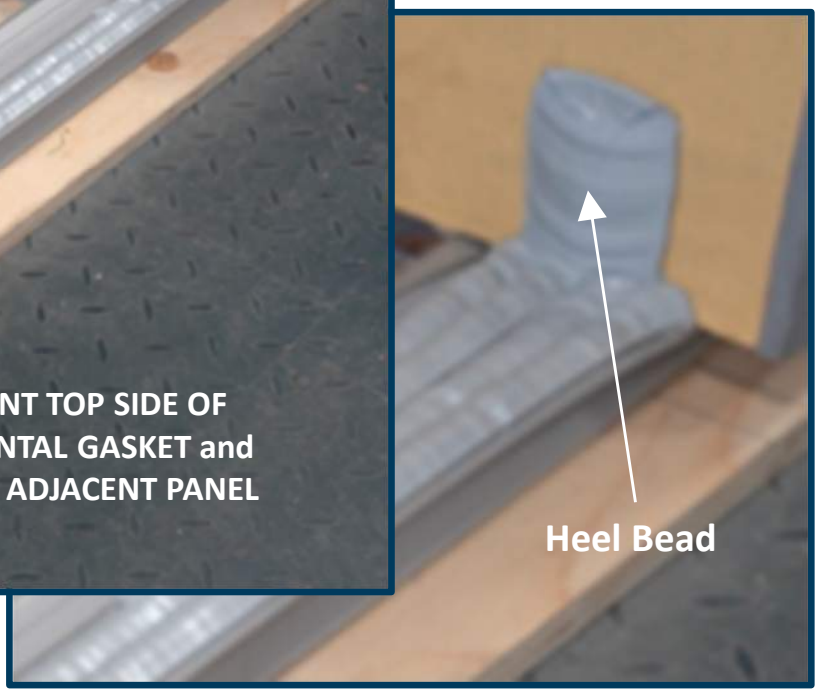
INSTALLING FIRST PANEL AT BASE OF WALL

Install the Curtain Wall Support System

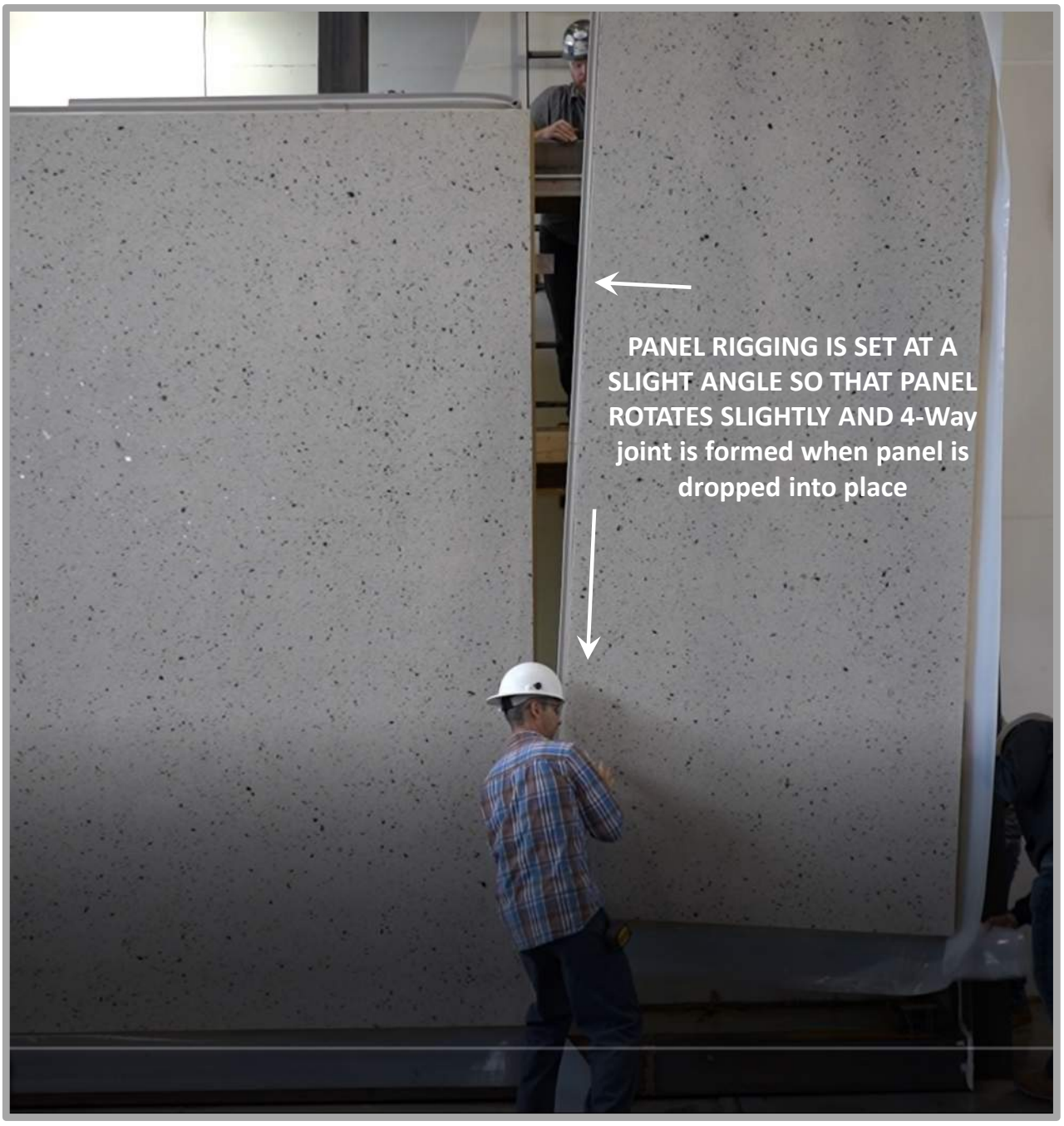
THE STEEL NETWORK DriftTrak® DTLB system was utilized to accommodate extreme panel movements prescribed by AAMA 501.4 & 501.6 Testing



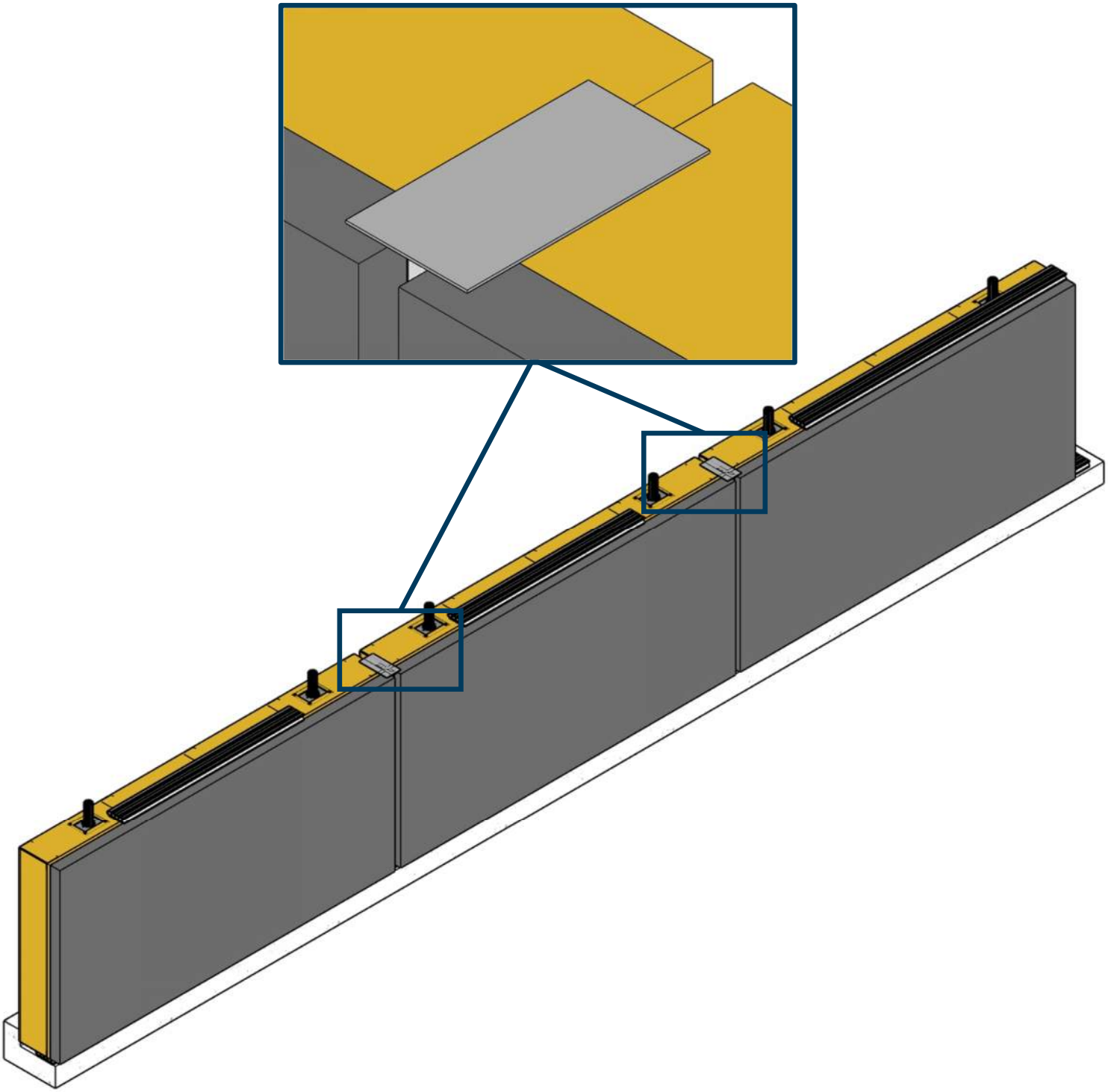




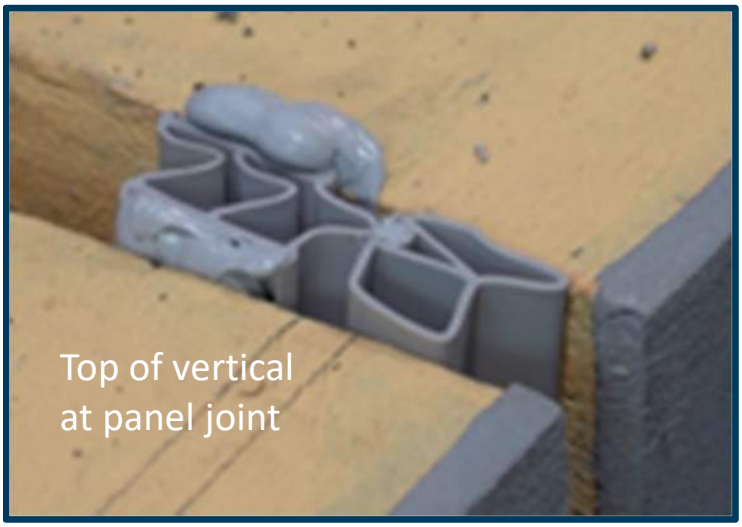
SETTING ADDITIOINAL PANELS AT BASE OF WALL



INSTALL 123 STRIP AT TOP OF VERTICAL PANEL JOINTS

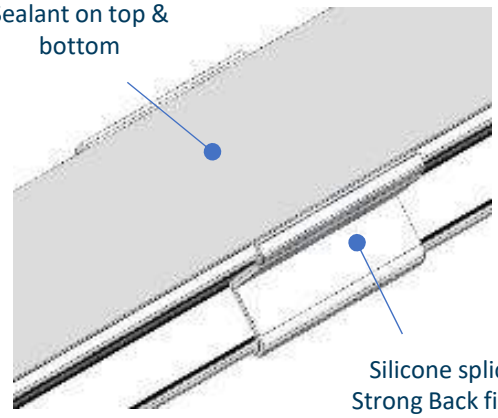


123 STRIP BUTTERED TO TOP OF VERTICAL PANEL JOINTS

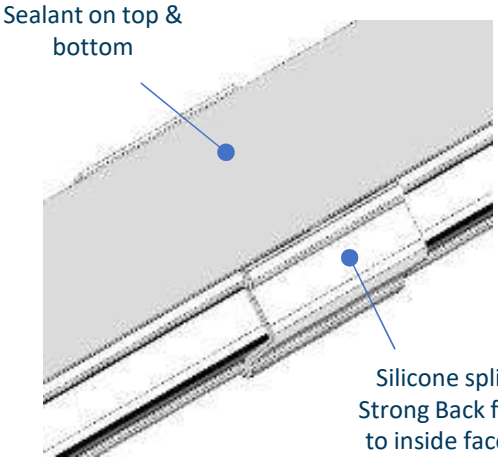


INSTALLING HORIZONTAL SEAL SPLICE and Tacking

Exoskeletal Seal Splice Outside Face

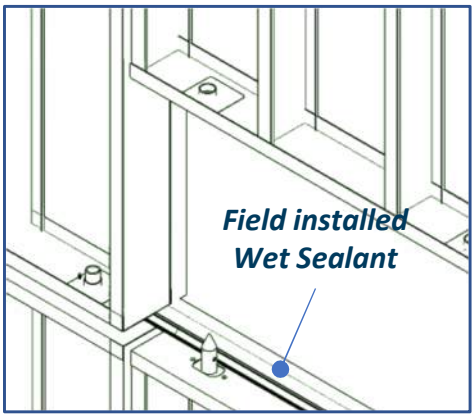


Exoskeletal Seal Splice Inside Face



Sealant on Vertical seal prior to installation of panel

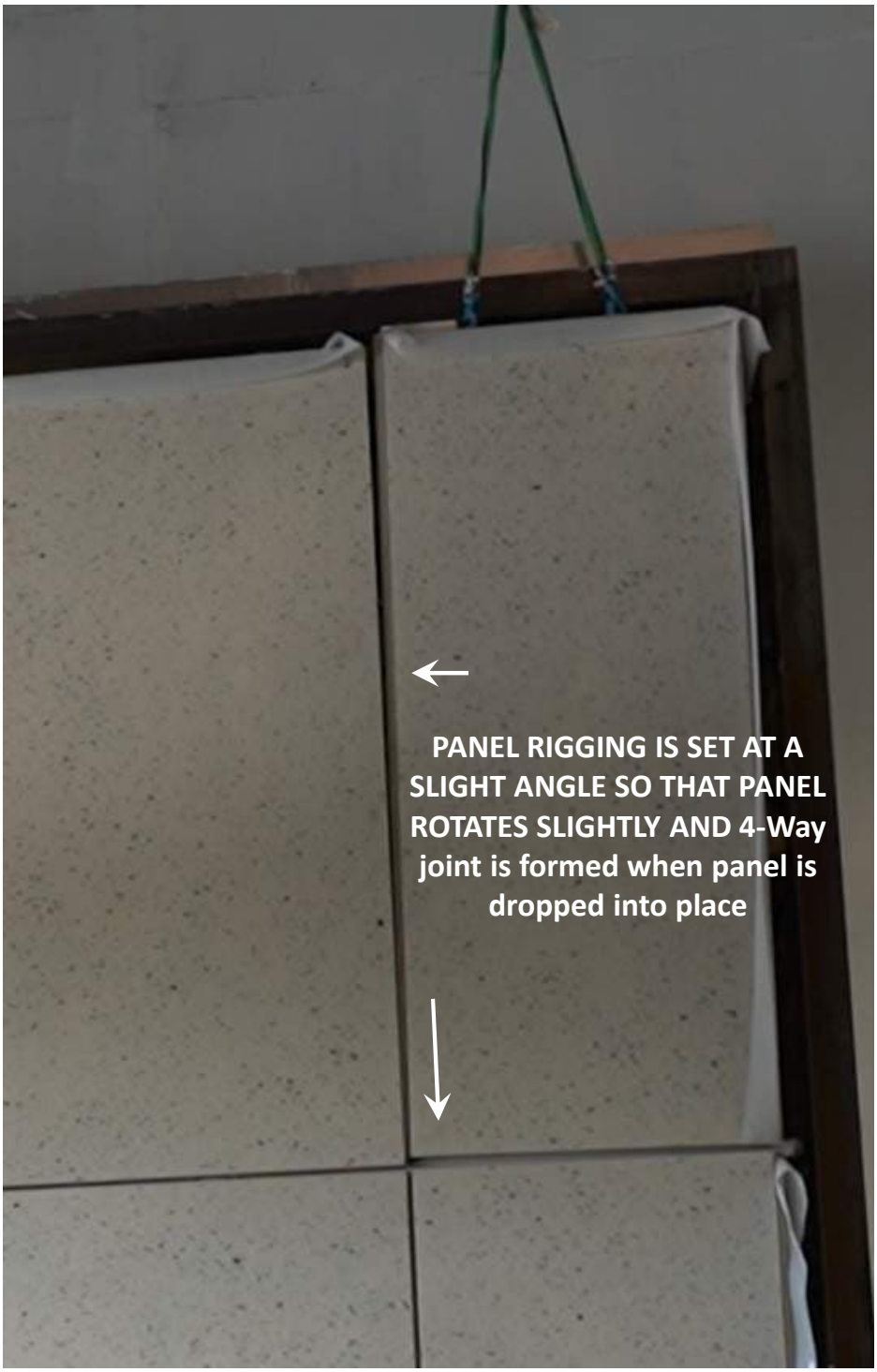
STACKING PANELS



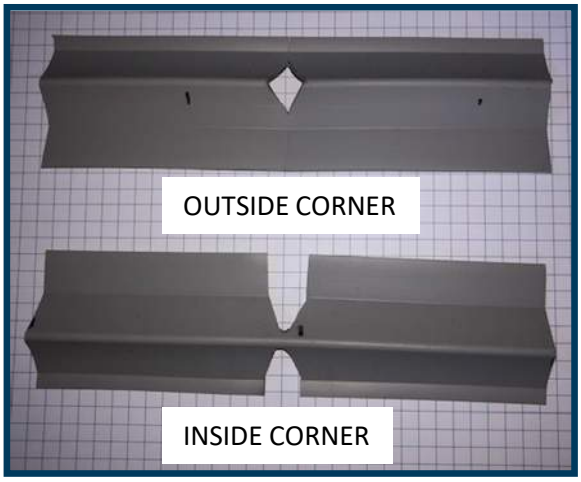
Drift Pin is inserted into the Alignment Pin to help the workers Guide the Panel into final position

Alignment pin

STACKING PANELS



BUILDING CORNERS



Use the Corner Stamp to provide the corner cut-outs in Strong-Backs

Corner Blocks hold Strong-Back in place until sealant cures

Apply Sealant on Strong-Back

Set Strong-Back on corner

Set Strong-Back on corner