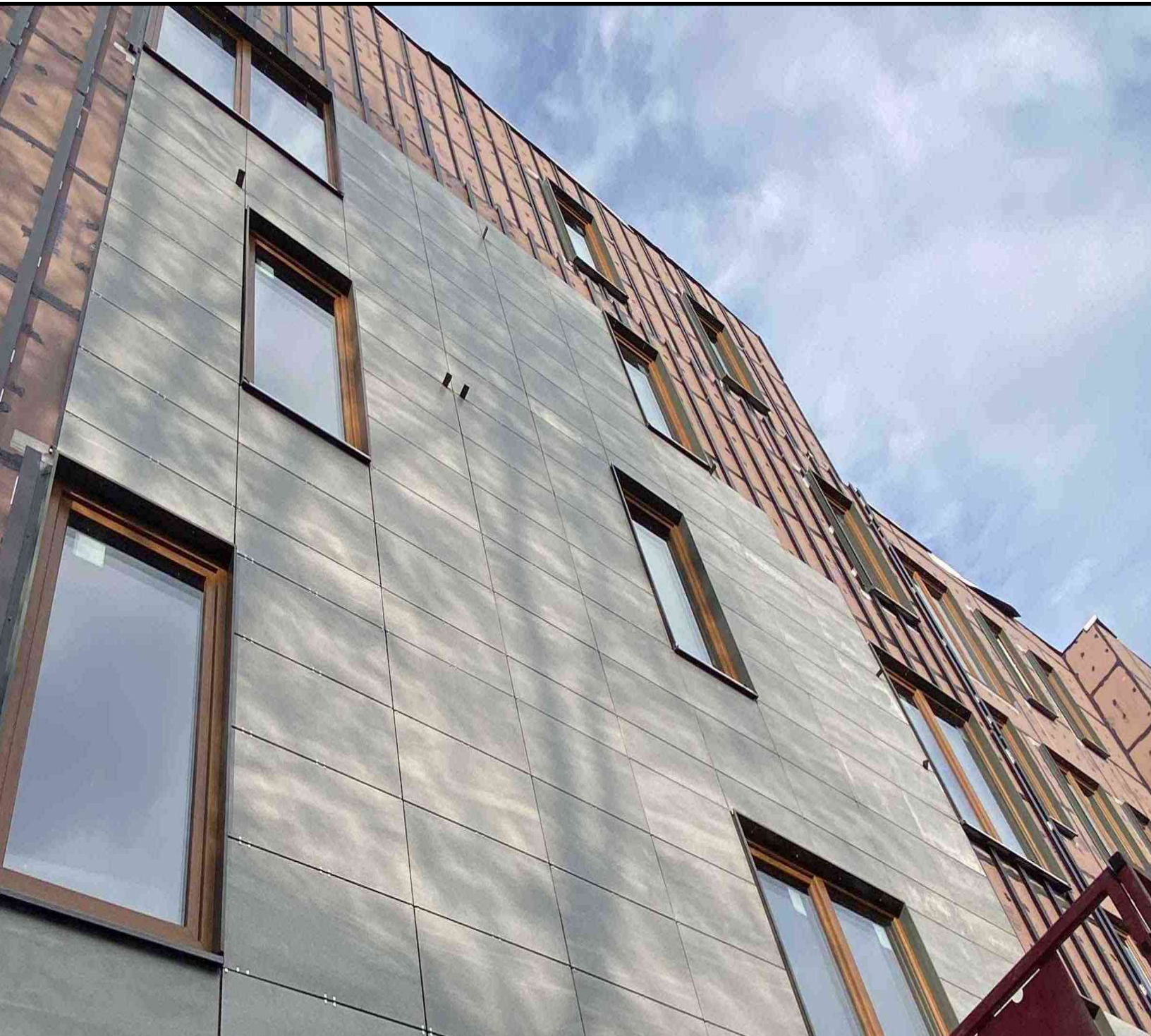


# INSTALLATION MANUAL

for DuPont™ ArmorWall™ System



1-833-338-7668  
[www.ArmorWall.DuPont.com](http://www.ArmorWall.DuPont.com)





For more information visit us at  
[armorwall.dupont.com](https://armorwall.dupont.com)  
or call 1-833-338-7668





# ArmorWall™ System Installation Manual

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### What is ArmorWall™ Plus?

DuPont™ ArmorWall™ Plus Fire-Rated (FR) Structural Insulated Sheathing (SIS) is an ICC listed, high strength, fire-resistant exterior wall sheathing product, commonly referred to as a Structural Insulated Sheathing (SIS) panel. Combining the best traits of Magnesium Oxide (MgO) and polyurethane insulation, it's patented Fusion Technology fuses Magnesium Oxide (MgO) sheathing onto the exterior face of the panels in order to gain high strength and durability not commonly found today in traditional building enclosure products. This innovation allows the designer to re-implement legacy design or frees them to wider creativity while maintaining wall construction speed, efficiency, and code compliance. Through rigorous testing, ArmorWall™ Plus FR SIS is able to help bridge the gap commonly found in keeping with continuous insulation (ci) compliance.



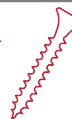
#### Passes NFPA 285 Testing

Significant fire resistance of the ArmorWall(TM) Plus FR SIS allows many diverse assemblies with combustible and non-combustible claddings to successfully pass the NFPA 285 test criteria as required by Chapter 26 of the IBC. See our ICC-ES E331 and associated engineering judgment letters for additional information.



#### Continuous Insulation

Has a high-performance, poured polyurethane insulation layer fused to the sheathing layer, which provides an easy way to comply with continuous insulation (ci) requirements in building codes. The thermal layer is offered in three standard thicknesses and R-Values.



#### Structural Sheathing + Cladding Support

With its ability to move the stud face to the exterior face of the sheathing, ArmorWall™ Plus FR SIS has been tested to support loads equivalent to most building cladding finishes, with minimal creep while under load.



#### Water-Resistive Barrier

ArmorWall™ Plus FR SIS passes ASTM E331 water penetration resistance at 15 PSF for 15 minutes and complies with the International Building Code (IBC) for water-resistive barriers. Once the roof water protection is in place and sheathing fasteners and seams have been sealed, the exterior walls are considered weathered-in and dried-in and interior construction may commence.



#### Air-Resistive Barrier

Once properly sealed using DuPont™ LiquidArmor™ FJ Sealant at all seams and sheathing fasteners, ArmorWall™ Plus FR SIS meets the IBC and ASTM E283 requirements for an air barrier assembly without the need for additional materials.



#### Panelization

ArmorWall™ Plus FR SIS offers a single pre-fabricated system that can be delivered on-site and installed in days, not weeks. This reduces the common stresses of factory-built wall assembly manufacturing, including movement within the facility, deflection during transportation, and racking during wall erection.



# ArmorWall™ System Installation Manual

## Brief Introduction to the ArmorWall™ System Components

The complete DuPont™ ArmorWall™ System requires some additional components in addition to typical wall assembly components found in all projects.



### **A ARMORBOARD PLUS FIRE-RATED STRUCTURAL SHEATHING RETURN**

ArmorBoard Plus Returns are a 1/2" Magnesium Oxide (MgO) board product utilized in punched opening applications, or where field returns vary from standard provided sizes. ArmorBoard Plus Returns are offered in 8'-0" lengths, with widths to match the depth of the assembly.

### **B ARMORSEAL PLUS COATING**

ArmorSeal Plus Coating is a single-component air and water-resistive barrier providing protection behind wall claddings such as brick, siding, metal panels and stucco. Utilizing the liquid-applied sealant or coatings allows for field-applied touch-ups on panel joints and seams when used in conjunction with a mesh reinforcement product.

### **C DUPONT™ LIQUIDARMOR™ FJ SEALANT**

LiquidArmor™ FJ is a moisture-cured, silyl-terminated polyether (STPE) sealant utilized at panel edges, seams, and fastener heads to complete the water-resistant and flashing layer within the DuPont™ ArmorWall™ System. LiquidArmor™ FJ comes as individual 20 ounce sausages of dark grey, smooth sealant in a 16-pack box.

### **D DUPONT™ DURAGARD™ WD SELF-ADHERED FLASHING TAPE**

DuPont™ DuraGard™ WD Self-Adhered Flashing Tape is a primer-less window and door rough opening flashing which helps maintain the integrity of air and water-resistive barrier assemblies.

### **E ARMORSEAL SEALANT (Trowel Grade)**

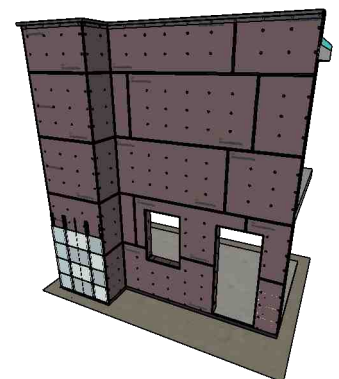
ArmorSeal Sealant (Trowel Grade) is a moisture-cured, polyether sealant utilized in rough opening sills, at panel edges, seams, and fastener heads to complete the water-resistant and flashing layer of the DuPont™ ArmorWall™ System. The Trowel Grade variant comes in a 2 gallon pail and is a gray, textured sealant.

### **F ARMORWALL™ SHEATHING SCREWS**

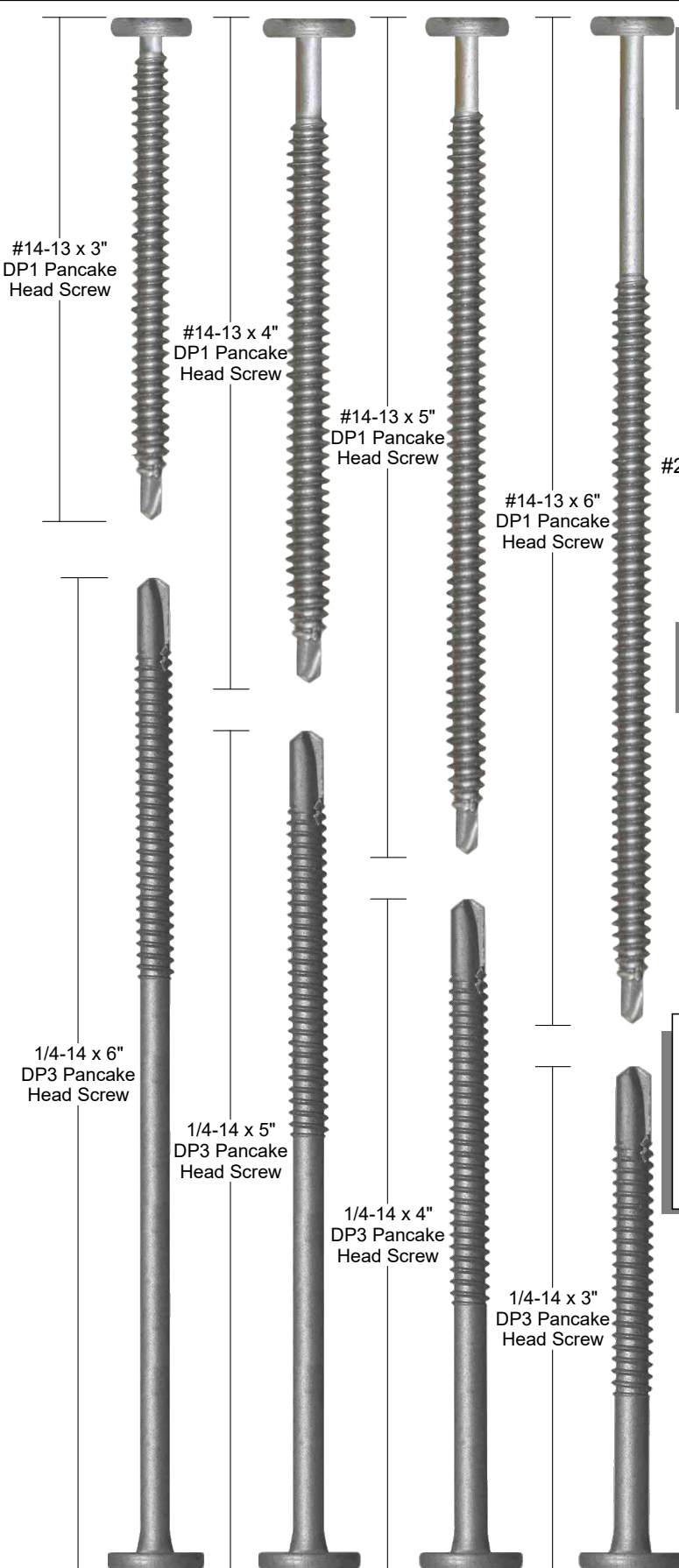
DuPont™ ArmorWall™ System panels are installed with tested and approved coated sheathing screws that meet rigorous standards for salt water exposure, moisture degradation, and structural performance. We provide sheathing screws in bulk quantity to help ensure that the job is installed to its performance standards, while passing along the bulk purchase discount of the fasteners to the installation contractor.

### **G ARMORWALL™ CLADDING ATTACHMENT SCREWS**

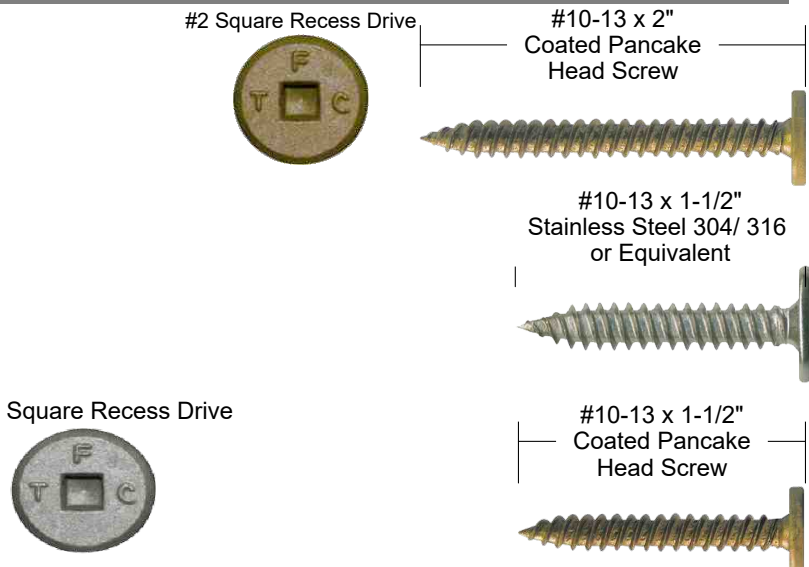
Cladding attachment to DuPont™ ArmorWall™ System panels should be done utilizing a DuPont approved cladding attachment fastener of appropriate length to penetrate 1/2 inch beyond the MgO layer of the ArmorWall™ System panels. DuPont tested and approved cladding attachment fasteners allows the materials will remain in place for many years to come.



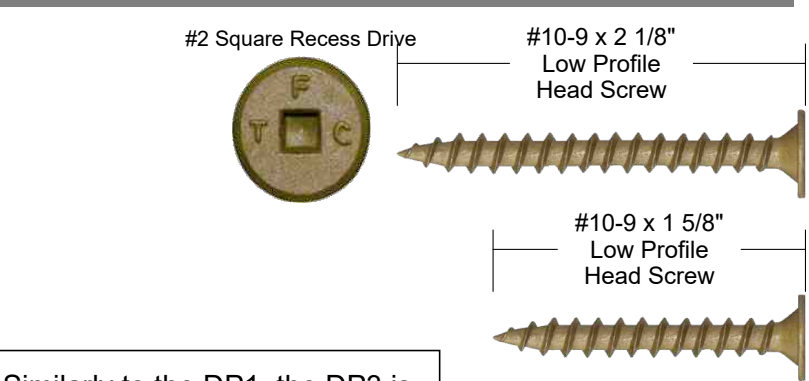




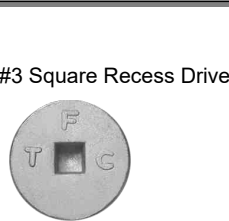
The #10-9 and #10-13 pancake head low profile head fasteners have been successfully tested to attach exterior cladding to the face of the ArmorWall™ panel.



The #10-9 ultra low profile head fasteners are best used when not attaching steel clips or anchors. This includes wood furring strips or similar compression material.



Similarly to the DP1, the DP3 is used for affixing ArmorWall™ to the structure however it is meant for 18 gauge steel studs and heavier to 1/4" thick steel members.





# ArmorWall™ System Installation Manual

## Screw Use Guide

ArmorWall™ Cladding Attachment: Screw Use Table

Cladding Material Connection Type	Concealor® ULP	Concealor® Pancake Head	Stainless Steel 304/ 316 or equivalent
RainScreen Clips (metal)			
RainScreen Clips (composite)			
Metal Stand-off Channels			
Wood Furring Strips			
Window/Door Returns			
ArmorBoard			

\*Do NOT use impact drivers to install cladding attachments to ArmorWall™ panels. Use torque control variable speed driver. Adjust and lower the torque so that the cladding fasteners do NOT spin.

Fastener Related Reports & Listings

Report Name	Notes
ICC ESL-1543	Cladding structural attachment tables
ICC ESL-1536	ASTM E72 Racking/Shear
ICC ESL-1306	ASTM E330 Tranverse Loading/Wind Pressure

Structure Key

Concrete	
Steel /Concrete	
Wood / Steel Studs (18 gauge* and lighter)	
Steel Studs (18 gauge* and heavier to 1/4" Steel)	
Wood	

\*Installers may use either DP1 or DP3 screws when using 18 gauge steel.

ArmorWall™ Sheathing Attachment to Substrate: Screw Use Table

ArmorWall™ Product	Concealor® DP-1 3"	Concealor® DP-1 4"	Concealor® DP-1 5"	Concealor® DP-1 6"	Concealor® DP-3 3"	Concealor® DP-3 4"	Concealor® DP-3 5"	Concealor® DP-3 6"
<b>ArmorWall Plus</b> Fire-Rated Structural Insulated Sheathing 2" 2 3/4" 3 3/4"								
<b>ArmorWall SP Plus</b> Fire-Rated Structural Insulated Sheathing 2 3/4" 3 3/4" 4 1/4"								
NOTES: * Use a 3/16" bit when pre-drilling holes for concrete structure applications.								





# ArmorWall™ System Installation Manual

## Delivery, Storage, and Handling

### Delivery

ArmorWall™ products are delivered in wrapped, protected 48"x96"x60" pallets via dry van or flatbed. ArmorWall™ panels vary in weight; an approximate pallet weight of 3,000 pounds can be used for load calculations.

Delivery locations with dock access will receive dry vans that can be unloaded with a drive-in forklift. Dry vans contain pallets loaded lengthwise or widthwise and require fork extensions to unload.

Delivery locations without dock access, such as project sites, will receive fully tarped flat beds on a specialty basis.



### FLATBED TRUCK CAPACITIES

Flat beds are 48'-53' long with all side access. Capacity of 10-12 pallets. Flat bed transportation must use rigid corner protectors.



### Contractors Tip: DuPont™ ArmorWall™ Plus

ArmorWall™ Thickness	Pallets per Truck	Coverage in Square Feet
2" ArmorWall™ (R10)	360	11,520
2 3/4" ArmorWall™ (R15)	264	8,448
3 3/4" ArmorWall™ (R21)	192	6,144

### DRY VAN TRUCK CAPACITIES

Dry vans are 53' long with 102" wide door openings. Capacity of 12 pallets.



### Contractors Tip: DuPont™ ArmorWall™ SP Plus

ArmorWall™ Thickness	Pallets per Truck	Coverage in Square Feet
2 3/4" ArmorWall™ (R11)	216	6,912
3 3/4" ArmorWall™ (R17)	192	6,144
4 1/4" ArmorWall™ (R21)	168	5,376



### Storage

ArmorWall™ should be stored off the ground and in original shipment condition until ready for installation. Do not stack pallets. Pallets should be covered by a breathable tarp while at the project site. Avoid ground contact or continuous exposure to moisture and direct sunlight.

### Handling

ArmorWall™ can be cut and installed using standard job site hand tools. Some skinning and direct coloration of the insulation edges is normal if exposed to UV light prior to installation; however, this does not affect the performance of the panel. Some cupping of the panel is expected during shipment and can be rectified during installation by beginning installation from the center of the panel and working outward per the fastener standard of the designed application.

### Documentation

Always read necessary project documentation, product installation manuals, data sheets, and safety data sheets prior to commencement of work. You can find all current ArmorWall™ product information on the website [www.ArmorWall.DuPont.com](http://www.ArmorWall.DuPont.com)

### Safety & Handling






DuPont has evaluated the ArmorWall™ Plus System and a dust mask, safety glasses or goggles, and standard construction protective equipment is suitable protection. In areas with limited ventilation or for increased exposure (extensive and repeated cutting), additional PPE and respiratory protection may be warranted. Confirm project PPE requirements with the job specific hazard analysis and safety plan.



### Application

Exterior Wall application only. Details apply to exterior wall systems designed with a continuous water drainage path to the building exterior.

### Recommended Personal Protective Equipment

-  CONSTRUCTION SAFETY HELMET (HARD HAT)
-  SAFETY GLASSES/GOGGLES
-  DUST MASK
-  HIGH VISIBILITY SAFETY APPAREL
-  PROTECTIVE GLOVES



ArmorWall™ does not require specialized tools not commonly found on construction projects.



- A RECIPROCATING SAW**  
May be used when cutting penetration or punched openings with an affixed panel.
- B CIRCULAR SAW**  
May be used when performing cuts to panels for punched holes or when cutting panel to size.
- C HAMMER DRILL**  
May be used when pre-drilling concrete/CMU walls.
- D SPEED SQUARE TOOL**  
Recommended when marking panels and components for necessary cuts to maintain accuracy.
- E SCREW GUN**  
Installation of both the ArmorWall™ panels and cladding to the panels throughout the project using a 2,000 RPM screw-gun with torque control. **Do not use impact tools with ArmorWall™.**
- F SAUSAGE GUN**  
May be used as an applicator of DuPont™ LiquidArmor™ FJ Sealant at seams and fasteners.
- G ROTOZIP**  
May be used when preparing panels for outside corner joints or otherwise notching the foam components within ArmorWall™ panels.
- H JIGSAW**  
May be used when preparing panels for penetrations or otherwise notching the panel for regular and irregular shapes.
- I LEVEL**  
Recommended to check levels throughout the projects and useful when marking long straight lines.
- J ANGLE GRINDER**  
May be used when preparing panels for penetrations or otherwise notching the panel for regular and irregular shapes.
- K CHALK LINE TOOL**  
Recommended throughout the project for preparing long precision cuts to the panels.
- L TAPE MEASURE**  
Recommended throughout the project for accuracy in preparation for panel layout and panel cuts.
- M PUTTY KNIFE / TROWEL**
- N** May be used to easily spread sealant when detailing the wall assembly
- O INSULATION KNIFE**  
Allows for easy cutting of the foam insulation element of ArmorWall™ and may be used when dealing with outside corner weaved joints.
- P ROLLER BRUSH**  
1/4" nap roller brush may be used as an applicator of trowel grade ArmorSeal Sealant at punched opening sills.
- Q MARKER**  
Best used for marking guides on the foam insulation for necessary modifications.



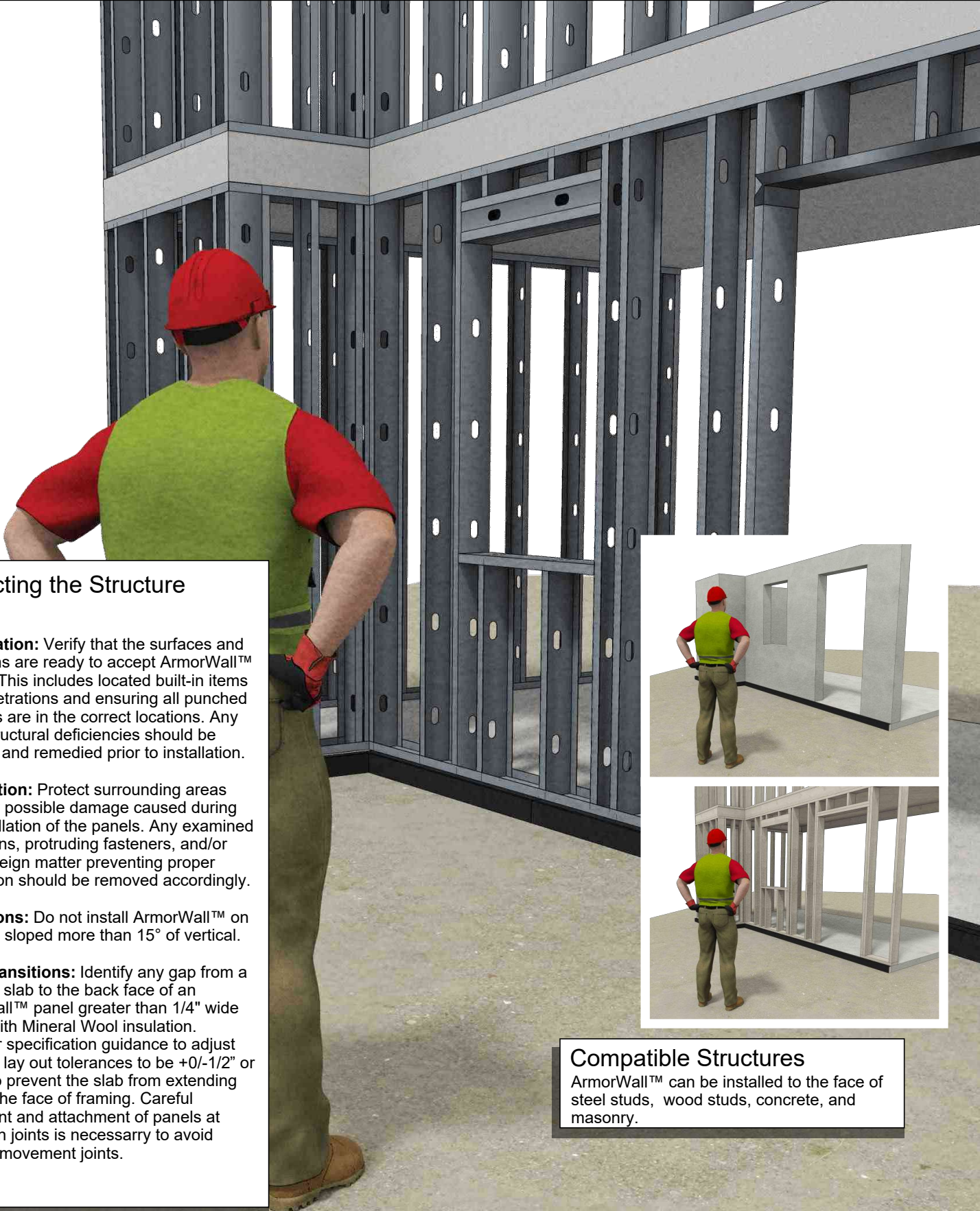
# ArmorWall™ System Installation Manual

## General Installation Guidelines

1. DuPont™ ArmorWall™ panels are designed for exterior wall application only. All ArmorWall™ system details apply to exterior wall systems designed with a continuous water drainage path to the building exterior.
2. DuPont approved liquid flashings and should be installed on a clean surface, free of dirt, grease, liquid, frost, or other debris that could interfere with adhesion.
3. Installer is responsible for system final application review and acceptance prior to application of subsequent systems. Subsequent system installers are responsible for promptly alerting ArmorWall™ system installer of any damage or ArmorWall™ System performance concerns identified during subsequent application.
4. Do not use impact tools with ArmorWall™.
5. ArmorWall™ Panels must be fastened to a minimum of two studs.
6. Proper sheathing attachment (center-out, or left to right) is necessary to prevent cupping/bowing.
7. Only use DuPont approved fasteners for ArmorWall™ Plus board AND cladding attachment. Do not use Nails. Do not use drywall screws. Do not use self-tapping screws for cladding attachment.
8. Install DuPont™ LiquidArmor™ FJ as soon as practical over seams, edges, and fasteners, but no later than 30 days after the ArmorWall™ panels' installation or prior to a weather/rainfall event. When estimating LiquidArmor™ FJ sealant, 1 sausage per panel is an approximate usage rate that applies only to panel joints and sheathing fastener heads. Installing estimator must determine additional sealant for rough openings, penetrations, transitions, or any additional locations requiring the use of sealant to complete the air/water barrier.
9. The ArmorWall™ system is designed to be a Water Resistive Barrier and part of a building's Continuous Air Barrier when properly detailed and integrated with adjacent water and air control systems. The ArmorWall™ System is designed to be covered by an exterior cladding to be protected from UV exposure and direct impact of weather or potential debris.
10. The installer is responsible for assessing galvanic corrosion risk when using stainless steel fasteners. Consult the DuPont Building Knowledge Center for further guidance.
11. For repairs larger than 16" horizontal or vertical, ArmorWall™ replacement piece must be fastened back to the studs (2 stud minimum).
12. Shimming for cladding attachment shall be provided with horseshoe or solid shims which provide solid bearing for the cladding rail system, the full diameter of cladding fasteners at the ArmorWall™ face, and as required to resist design loads. Cladding attachment fasteners shall fasten through the shim itself and may not cantilever through the voidspace of the shim. Design engineering and approvals for shimming shall be provided by the project or cladding attachment system designer of record.
13. Chemical compatibility and adequate adhesion confirmation is recommended prior to construction for all sealants, membranes, and other systems intended to interface with or bond to the ArmorWall™ Plus System and accessories.

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### Inspecting the Structure

**Examination:** Verify that the surfaces and conditions are ready to accept ArmorWall™ system. This includes located built-in items and penetrations and ensuring all punched openings are in the correct locations. Any major structural deficiencies should be reported and remedied prior to installation.

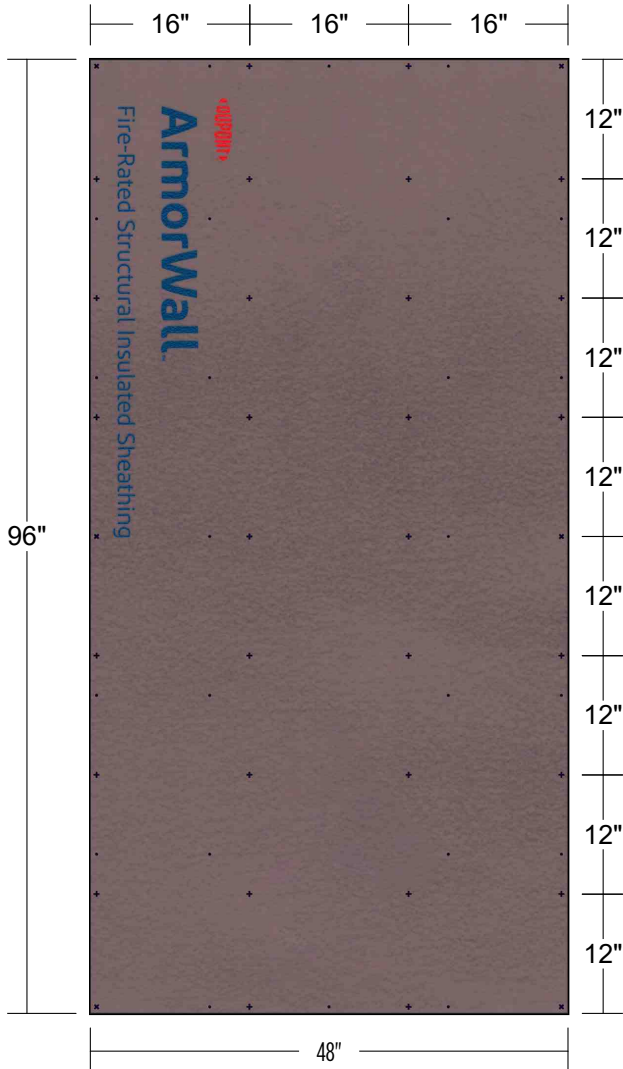
**Preparation:** Protect surrounding areas from any possible damage caused during the installation of the panels. Any examined projections, protruding fasteners, and/or loose foreign matter preventing proper installation should be removed accordingly.

**Limitations:** Do not install ArmorWall™ on structure sloped more than 15° of vertical.

**Floor Transitions:** Identify any gap from a concrete slab to the back face of an ArmorWall™ panel greater than 1/4" wide and fill with Mineral Wool insulation. Consider specification guidance to adjust concrete lay out tolerances to be +0/-1/2" or similar to prevent the slab from extending beyond the face of framing. Careful placement and attachment of panels at deflection joints is necessary to avoid bridging movement joints.

### Compatible Structures

ArmorWall™ can be installed to the face of steel studs, wood studs, concrete, and masonry.



Most panels have a factory-applied fastening pattern directly on the board allowing for quicker installation in both horizontal and vertical orientations. Use the corresponding symbols to the preferred orientation. Usage in high wind zones may require alternate fastening or when appropriate panels are used as shear walls. Follow engineered requirements as necessary for the project.



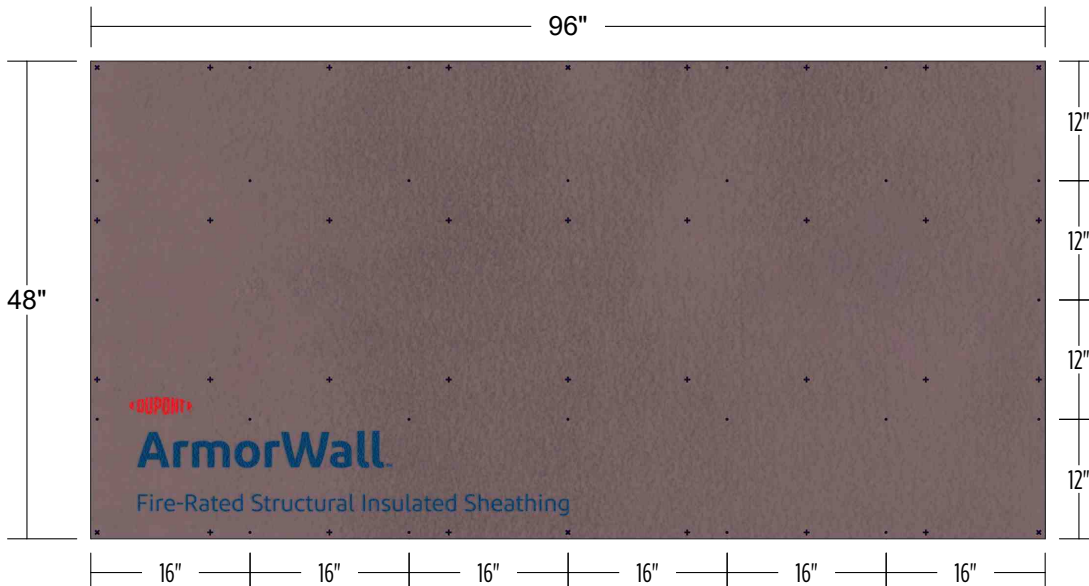
Vertical Installation Standard Fastener Position Symbol



Horizontal Installation Standard Fastener Position Symbol



Vertical and Horizontal Shared Installation Standard Fastener Position Symbol



ArmorWall™ standard panel length is 8'-0"

Fasteners at the perimeter should be ~3/4" from the edge of the panel. Fastener head should not span past the edge of the panel.

### INSTALLATION ORIENTATION

ArmorWall™ Plus and ArmorWall™ SP Plus Fire-Rated (FR) Structural Insulated Sheathing (SIS) may be installed vertically or horizontally.



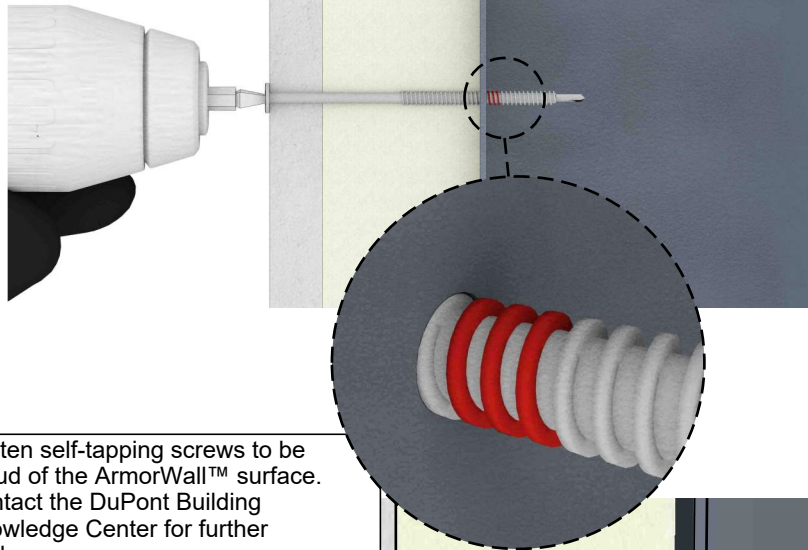
Install ArmorWall™ panels from the center working outwards to help alleviate any possible cupping that could have resulted from transport.



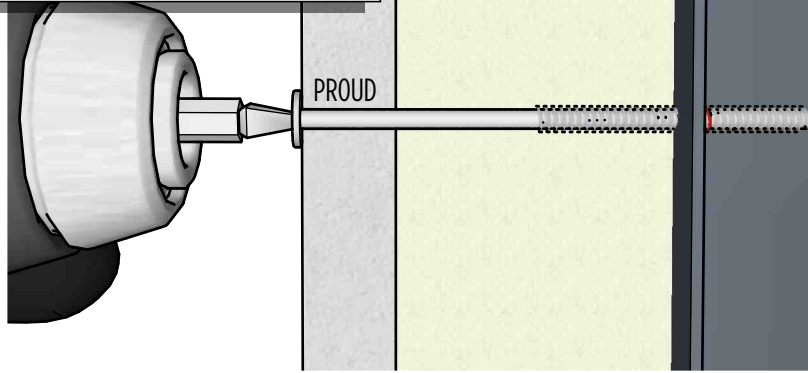
Repairs: Recommended fasteners that miss a framing member should be removed and the hole repaired using DuPont™ LiquidArmor™ FJ Sealant. The sealant must fully encapsulate the hole a minimum of 1/2" in all directions and be proud of the face of the ArmorWall™ panel.



Each self-tapping screw must penetrate the steel stud structure with at minimum three threads showing beyond the metal surface.



Fasten self-tapping screws to be proud of the ArmorWall™ surface. Contact the DuPont Building Knowledge Center for further guidance.





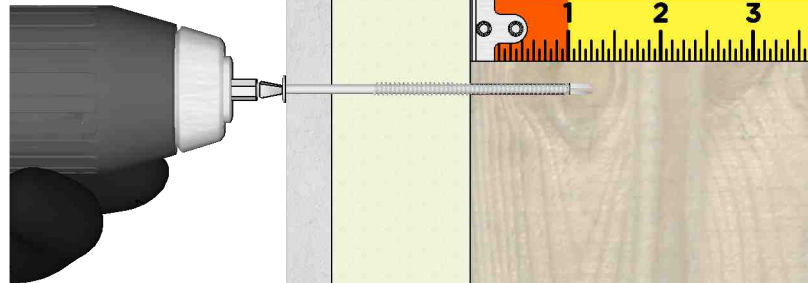
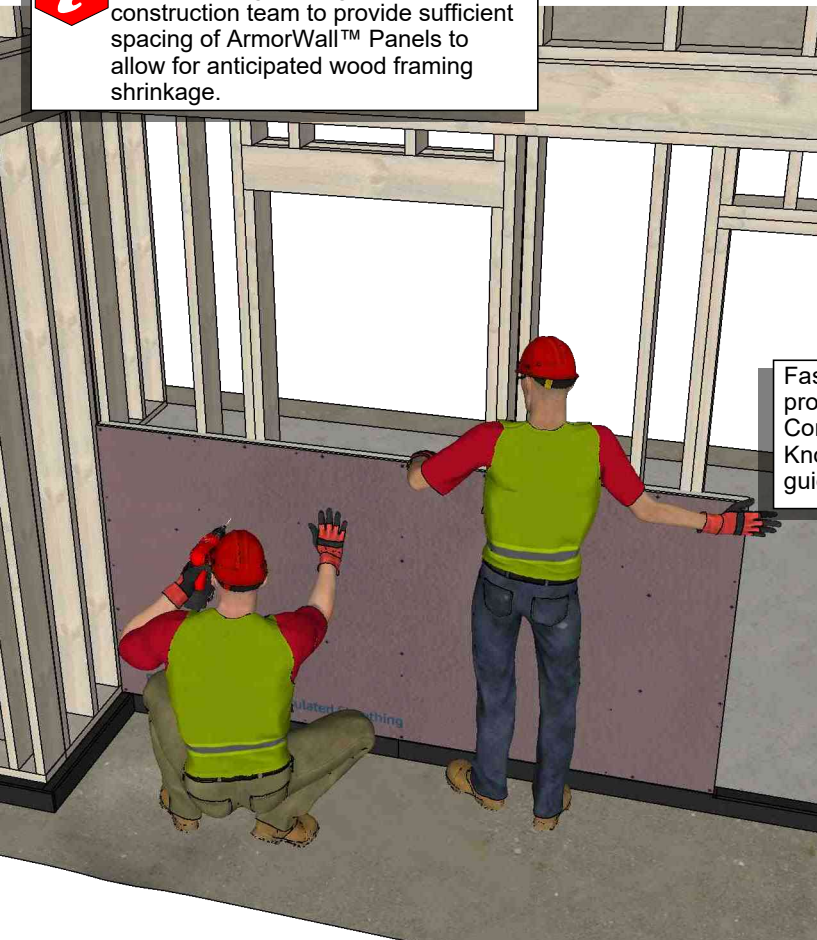
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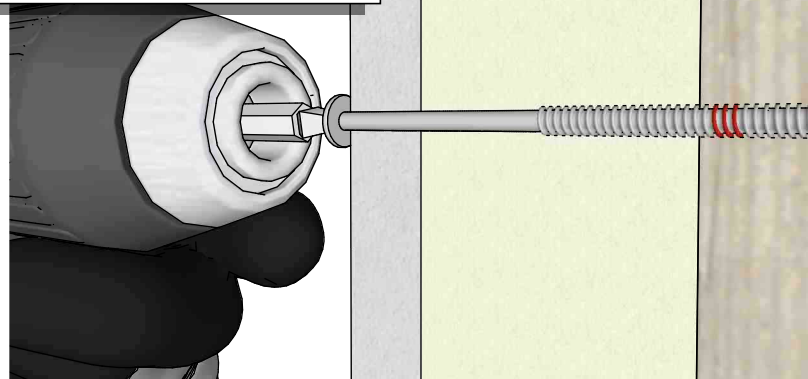
Each #14-13 self-tapping screw must penetrate the wood stud structure a minimum of 1" of full thread.



**Contractor Requirement:** To allow for wood shrinkage, design and construction team to provide sufficient spacing of ArmorWall™ Panels to allow for anticipated wood framing shrinkage.

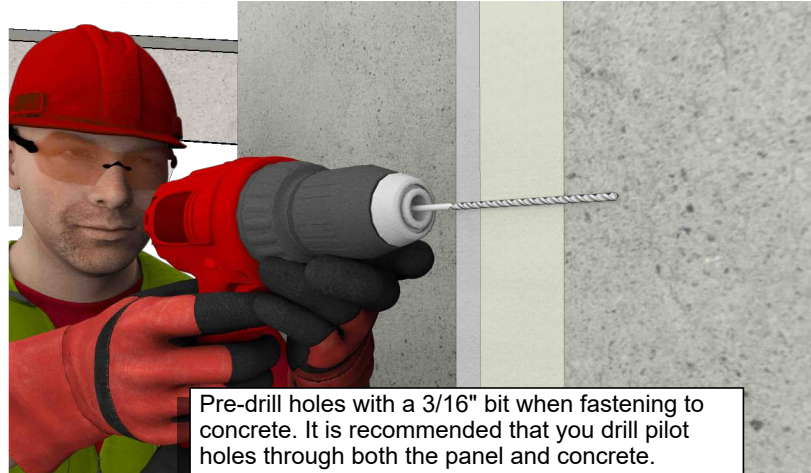
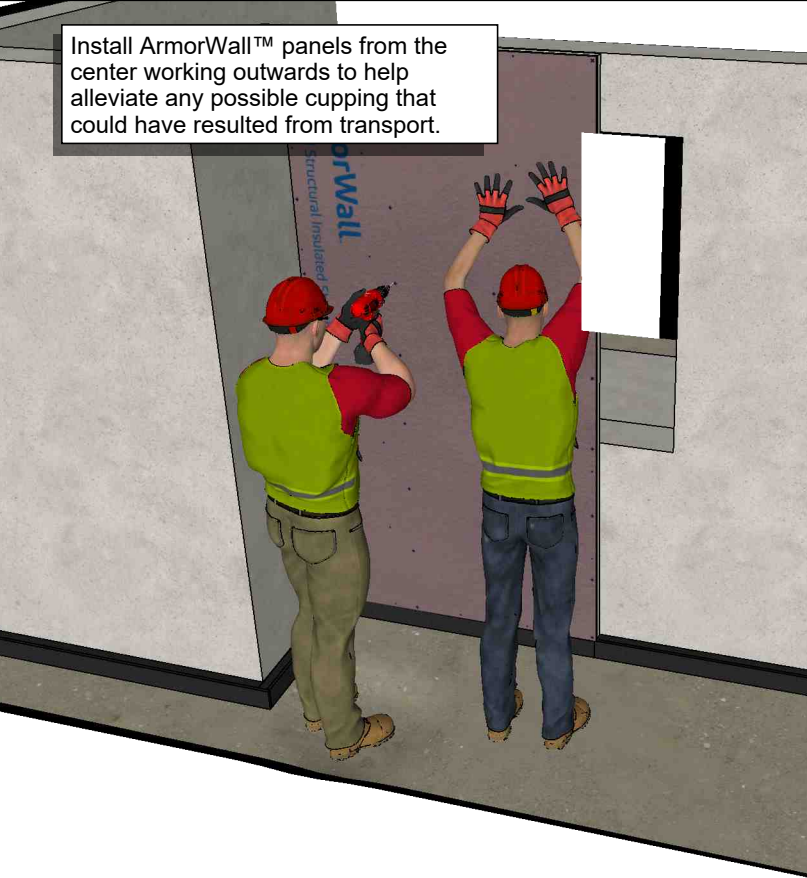


Fasten self-tapping screws to be proud of the ArmorWall™ surface. Contact the DuPont Building Knowledge Center for further guidance.

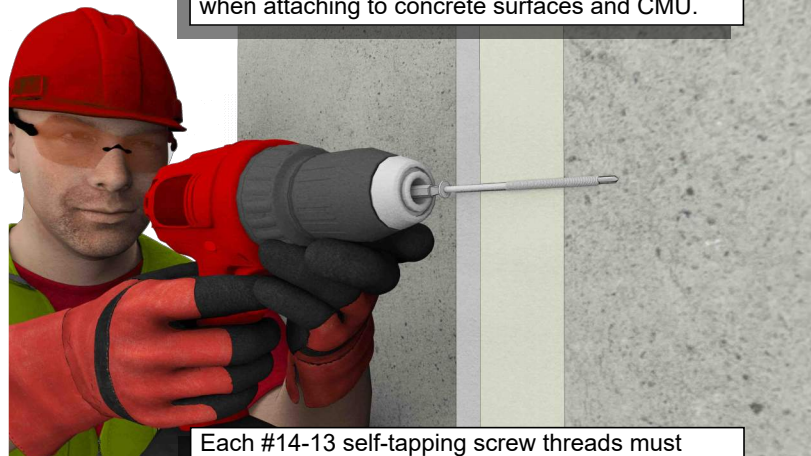




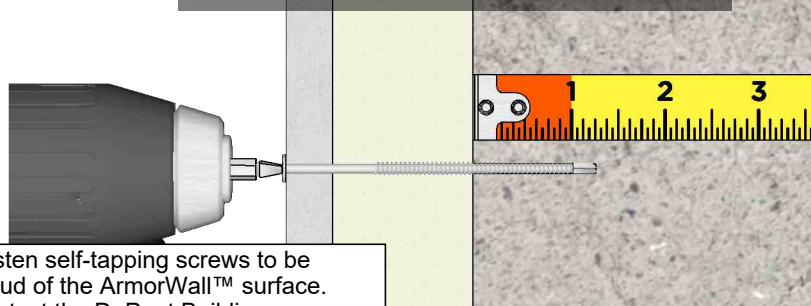
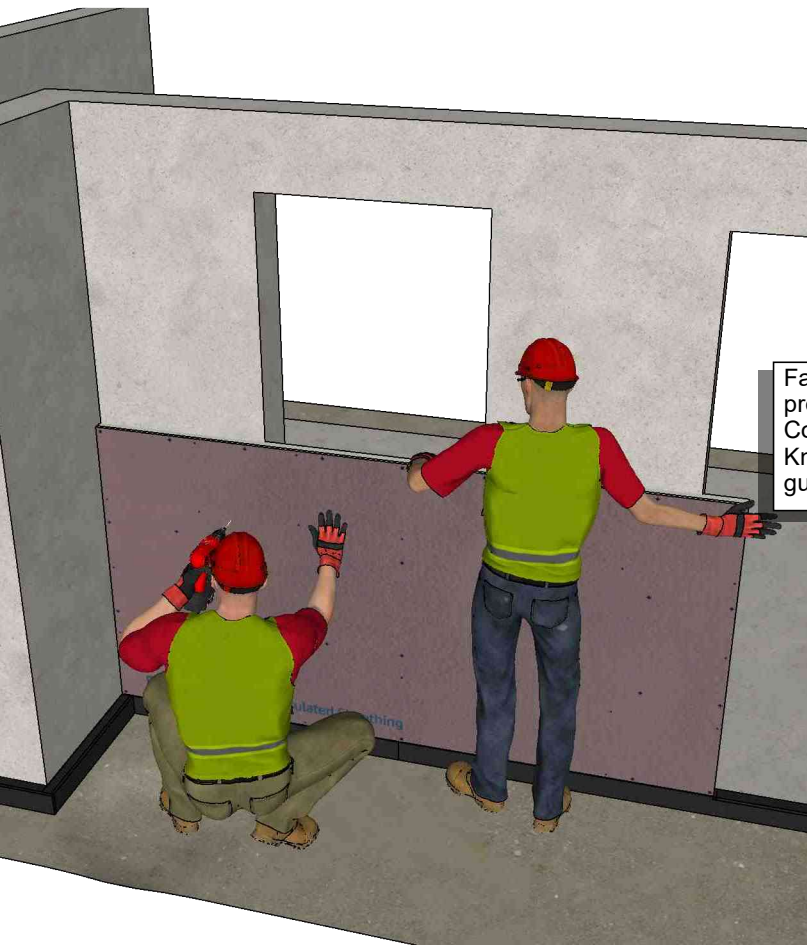
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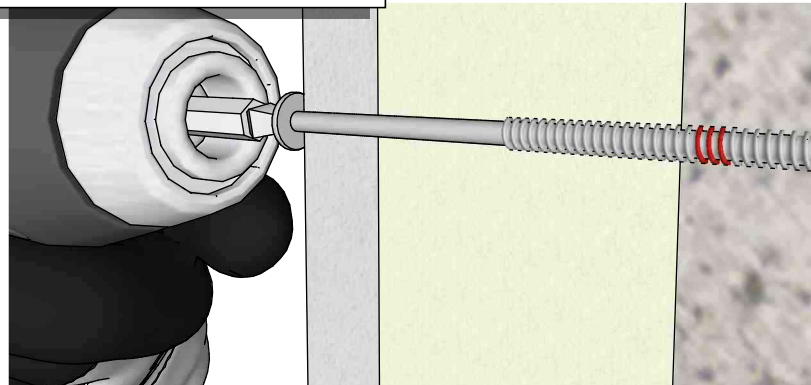
Pre-drill holes with a 3/16" bit when fastening to concrete. It is recommended that you drill pilot holes through both the panel and concrete. Follow standard fastener manufacturer practices when attaching to concrete surfaces and CMU.



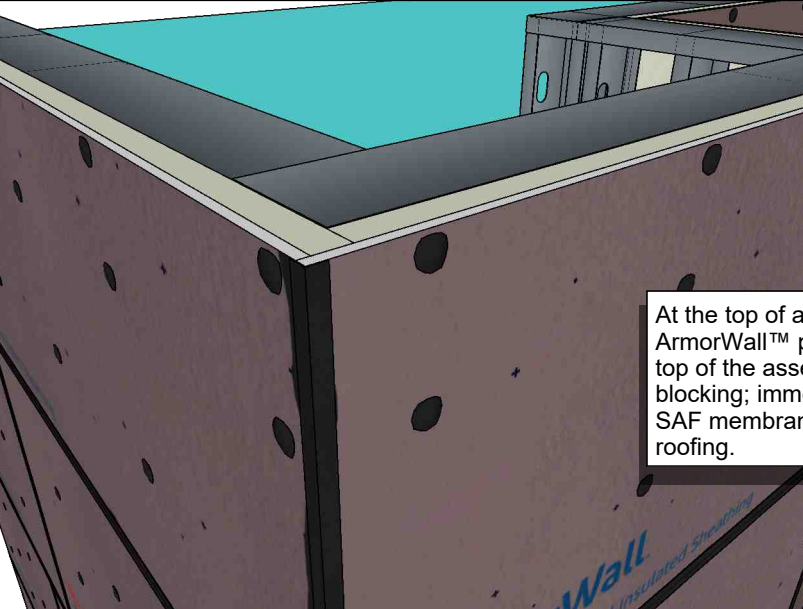
Each #14-13 self-tapping screw threads must penetrate the concrete structure a minimum of 1".



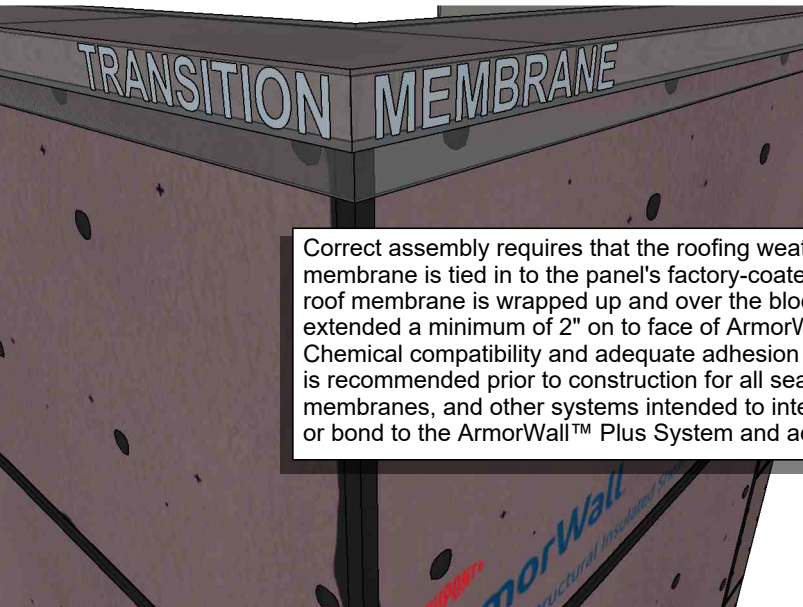
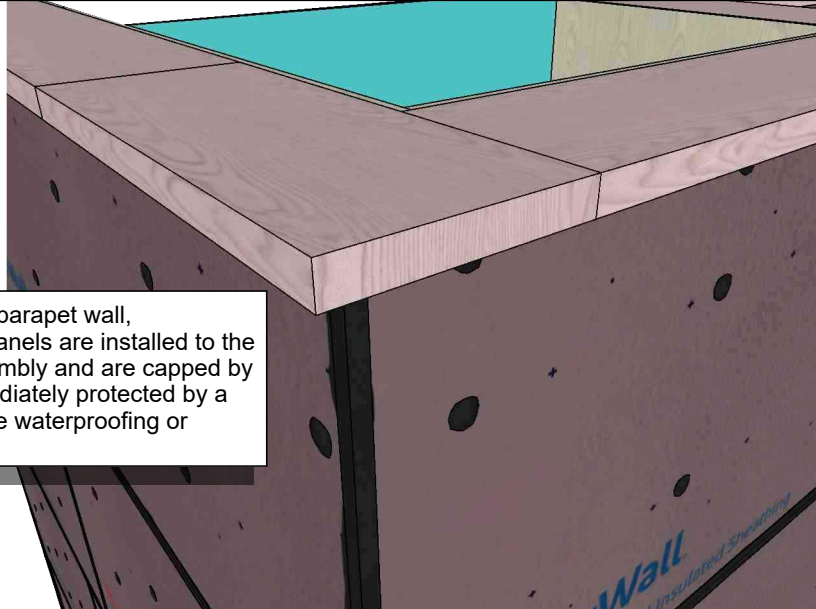
Fasten self-tapping screws to be proud of the ArmorWall™ surface. Contact the DuPont Building Knowledge Center for further guidance.



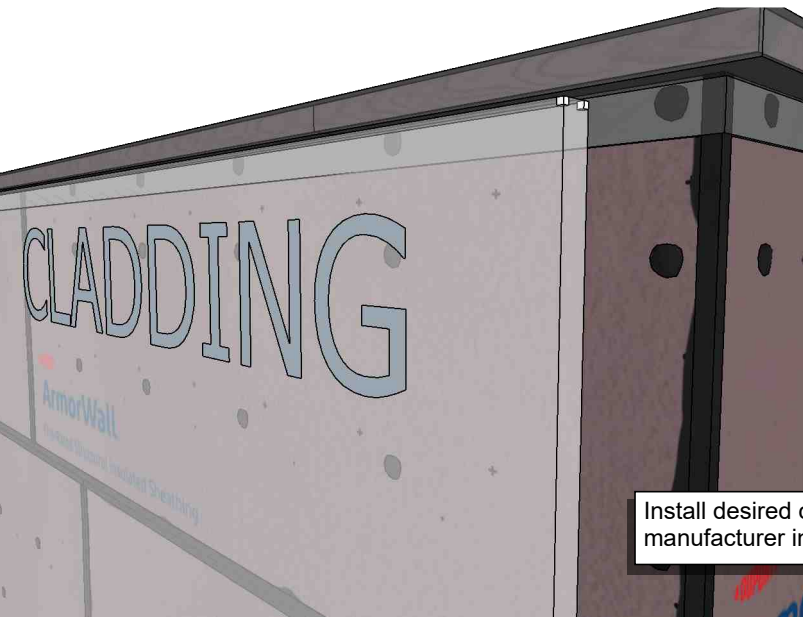
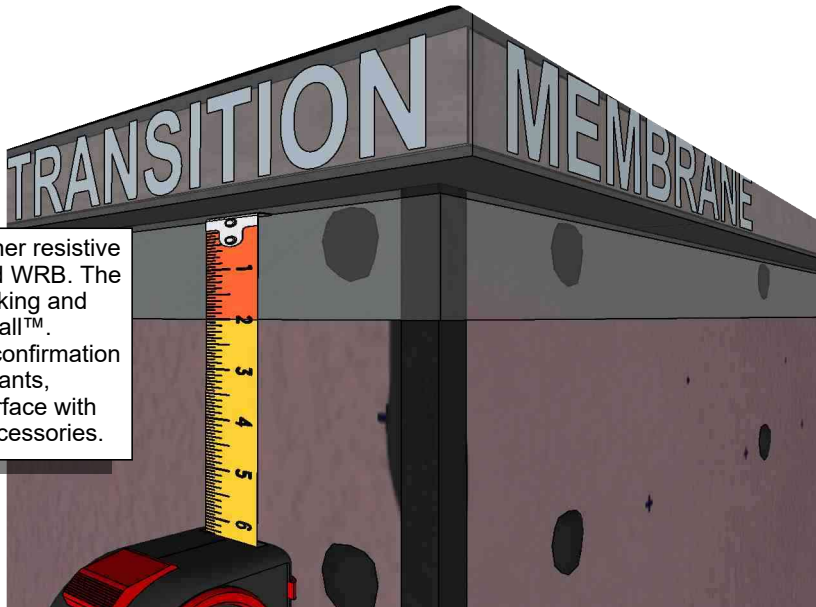




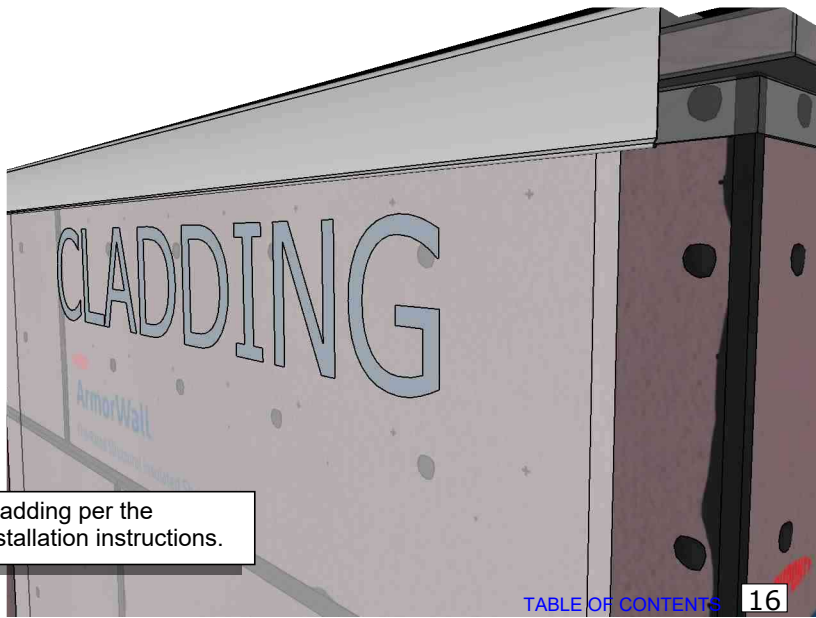
At the top of a parapet wall, ArmorWall™ panels are installed to the top of the assembly and are capped by blocking; immediately protected by a SAF membrane waterproofing or roofing.

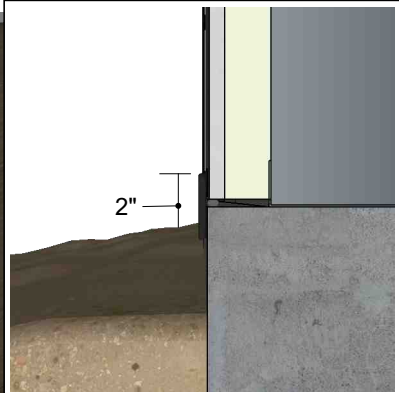


Correct assembly requires that the roofing weather resistive membrane is tied in to the panel's factory-coated WRB. The roof membrane is wrapped up and over the blocking and extended a minimum of 2" on to face of ArmorWall™. Chemical compatibility and adequate adhesion confirmation is recommended prior to construction for all sealants, membranes, and other systems intended to interface with or bond to the ArmorWall™ Plus System and accessories.

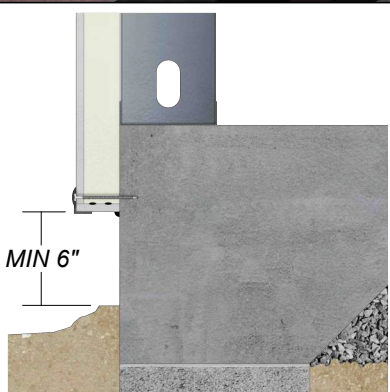
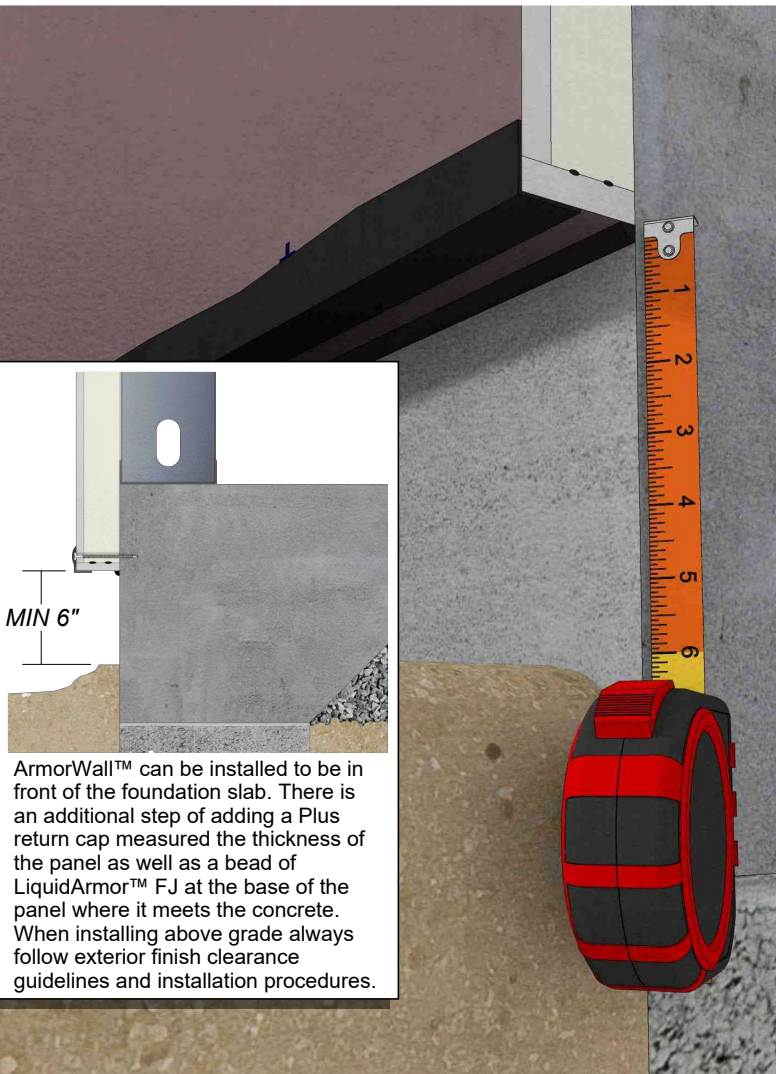
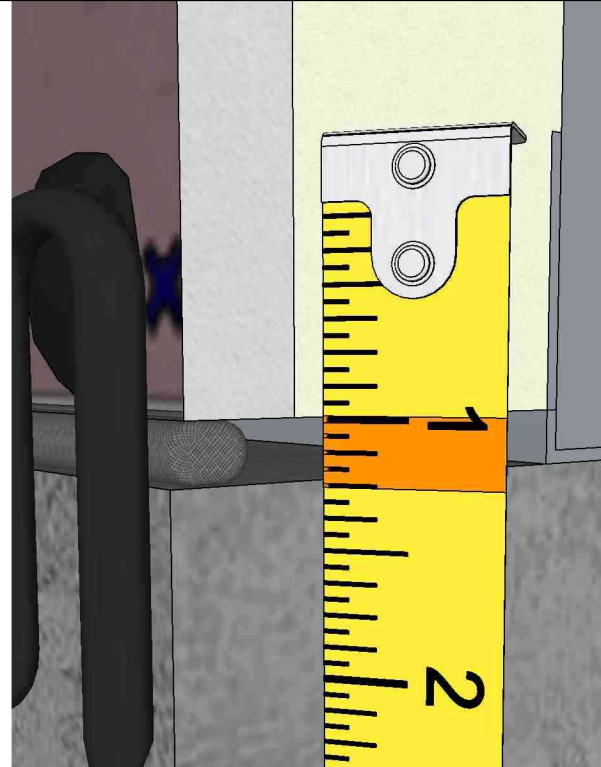


Install desired cladding per the manufacturer installation instructions.

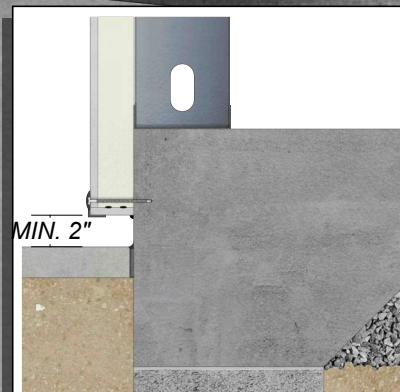
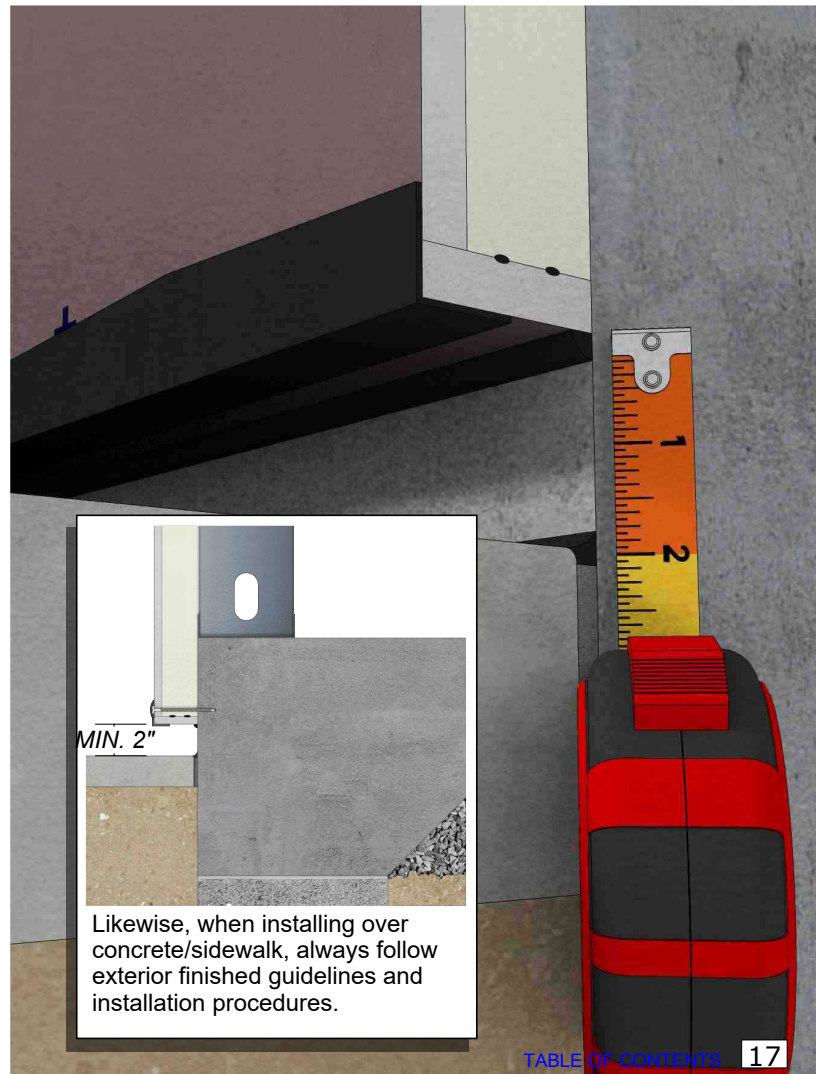




ArmorWall™ can be installed flush with the foundation. In this case, offset the base of the panel 1/4" from the foundation and install a backer rod and 2" wide LiquidArmor™ FJ around the entire perimeter as necessary.



ArmorWall™ can be installed to be in front of the foundation slab. There is an additional step of adding a Plus return cap measured the thickness of the panel as well as a bead of LiquidArmor™ FJ at the base of the panel where it meets the concrete. When installing above grade always follow exterior finish clearance guidelines and installation procedures.



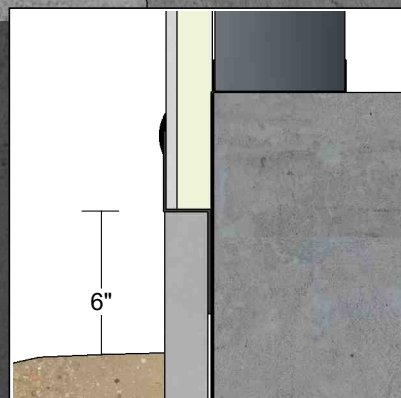
Likewise, when installing over concrete/sidewalk, always follow exterior finished guidelines and installation procedures.





## ArmorWall™ System Installation Manual

Panel Attachment at Bottom of the Panel: Transition to DuPont™ Styrofoam™ Brand XPS



Styrofoam™ Brand XPS Insulation is manufactured to make the transition to the above grade panels effortless as it already has built-in returns. When transitioning, you only require the typical 2" LiquidArmor™ FJ lap sealant between the panels. When installing above grade always follow exterior finish clearance guidelines and installation procedures. Styrofoam™ Brand XPS Insulation should be installed over LiquidArmor™ FJ after the liquid membrane has cured for a minimum of 48 hours.



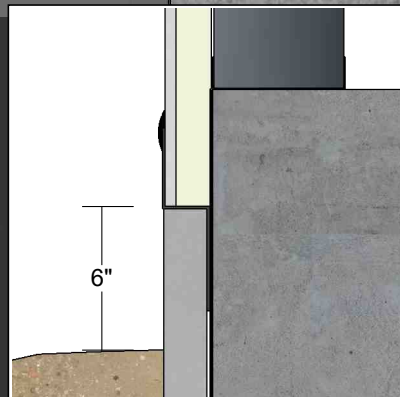


## ArmorWall™ System Installation Manual

Panel Attachment at Bottom of Panel: Transition to DuPont™ Styrofoam™ Brand XPS



Refer to DuPont™ DuraGard™ CM  
Transition Flashing installation  
Instructions for proper installation.

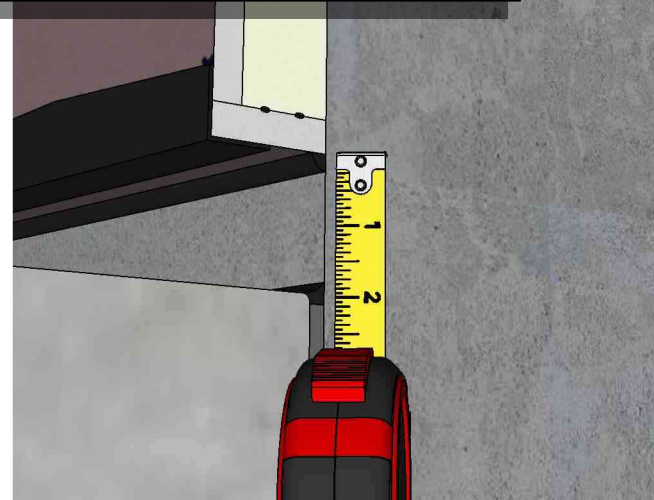
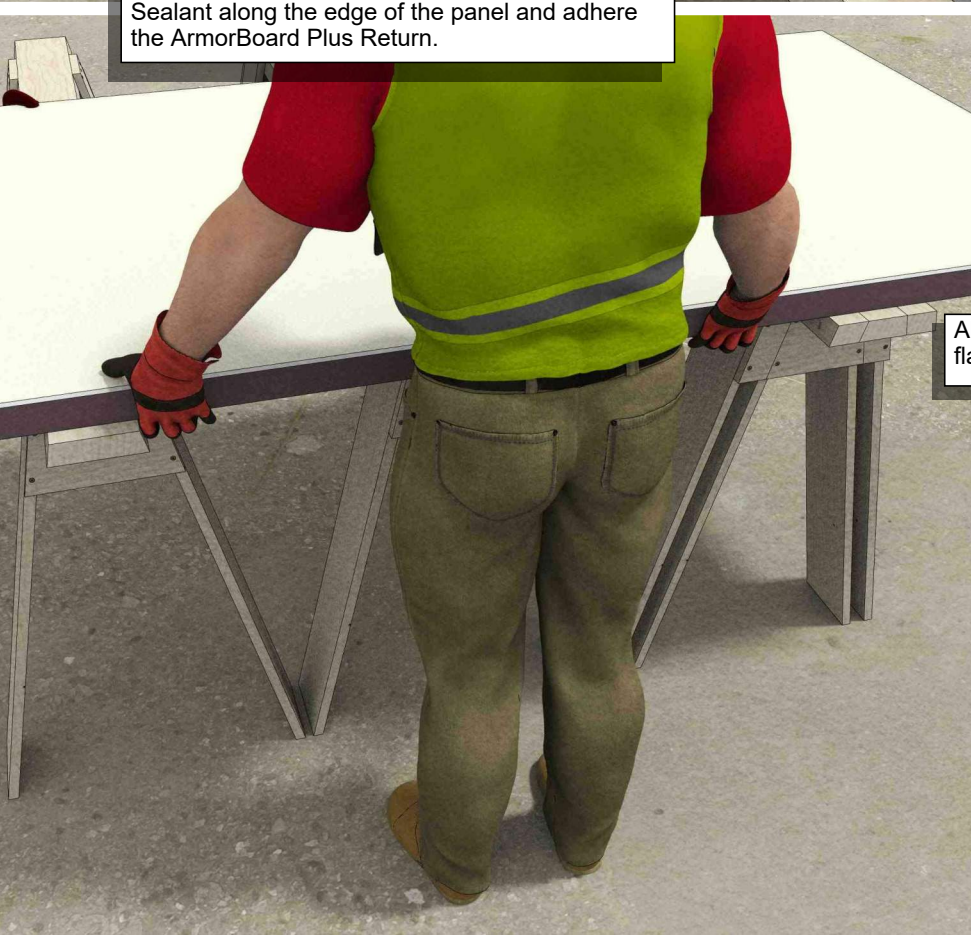


When transitioning from ArmorWall™ Plus to DuPont™ Styrofoam™ Brand XPS, you may cap off the underside edge of the panel with DuPont™ DuraGard™ CM self-adhered through wall flashing. The DuraGard™ CM must protect the underside of the ArmorWall™ Plus board and transition onto the foundation by a minimum of 4 inches. When installing above-grade, always follow exterior finish clearance guidelines and installation procedures.



Depending on which panel from the ArmorWall™ series is on the project, finish the exposed sheathing with the appropriate WRB or use the appropriate return (illustrated).

Apply (2) beads of DuPont™ LiquidArmor™ FJ Sealant along the edge of the panel and adhere the ArmorBoard Plus Return.



Alternatively, you can install a metal through-wall flashing to cap off the bottom edge of the panel.



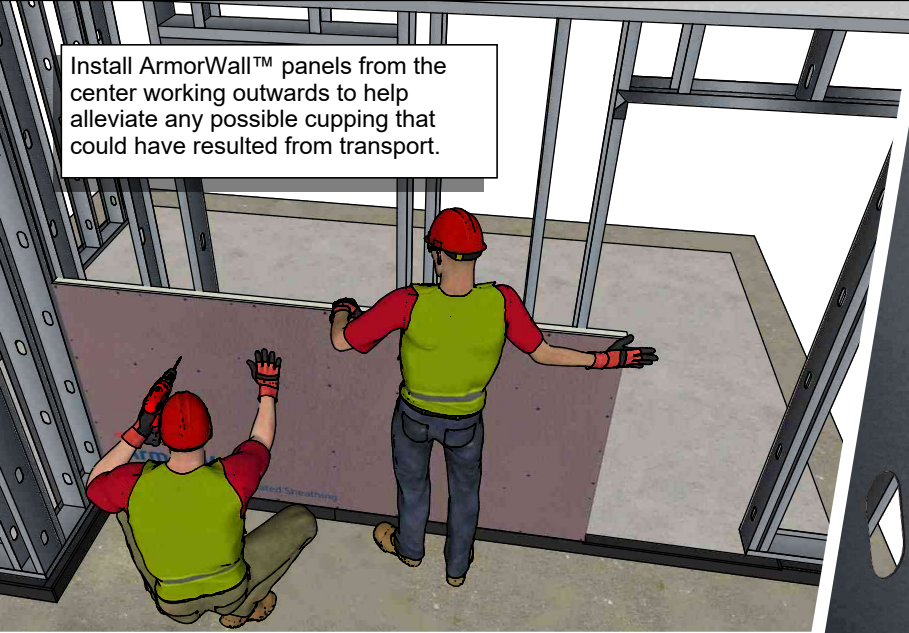




# ArmorWall™ System Installation Manual

## Punched Opening Method 1: Affixed Panel

Install ArmorWall™ panels from the center working outwards to help alleviate any possible cupping that could have resulted from transport.



Using the rough opening as a guide, carefully cut the opening using a reciprocating saw.



Cut away the extra panel at the door punched opening, again using the opening as the guide.







# ArmorWall™ System Installation Manual

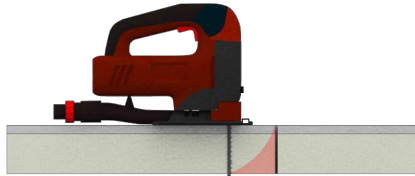
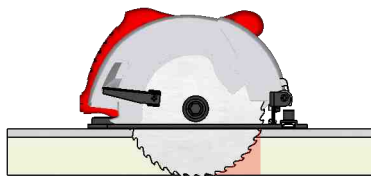
## Punched Opening Method 2: Unaffixed Panel



Move the marked panel to the local workstation. It is recommended that two workers carry a full panel.

Hold the panel in position while marking the entire interior perimeter of the punched opening onto the foam insulation. Use a permanent marker for best contrast and writability on the foam insulation.

Using a circular saw, cut out the punched opening along the markings. Take proper care when operating power tools and always wear the required personal protective equipment.



It is recommend to finish the inside corners after the circular saw using a jig saw tool.

Install ArmorWall™ panels from the center working outwards to help alleviate any possible cupping that could have resulted from transport.





# ArmorWall™ System Installation Manual

## Punched Opening Method 3: Measured Panel

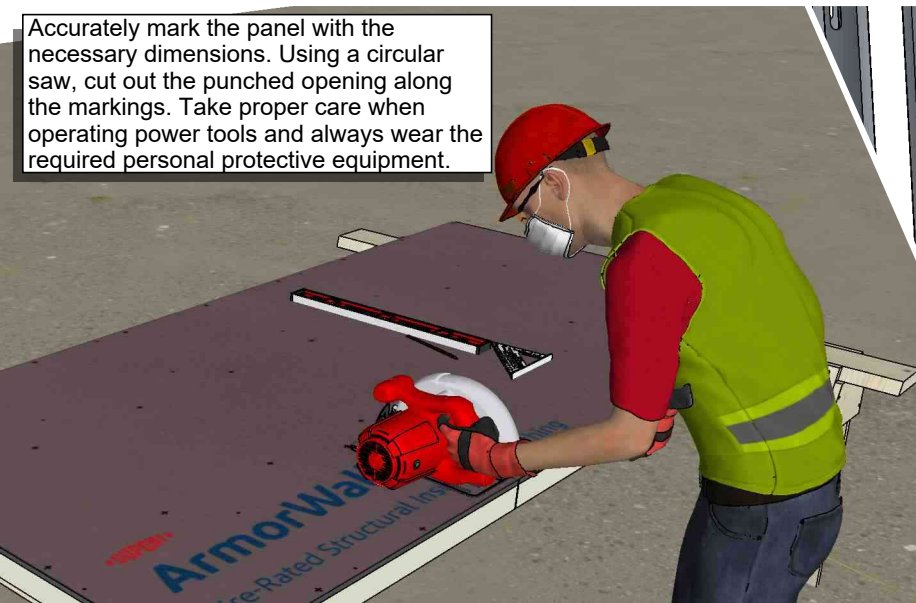
Take the necessary measurements required to properly locate the punched opening onto the ArmorWall™ panel.



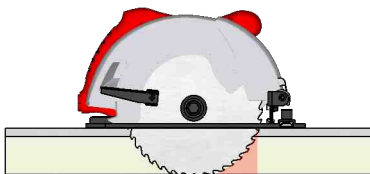
Move the panel to the local workstation. It is recommended that two workers carry a full panel.



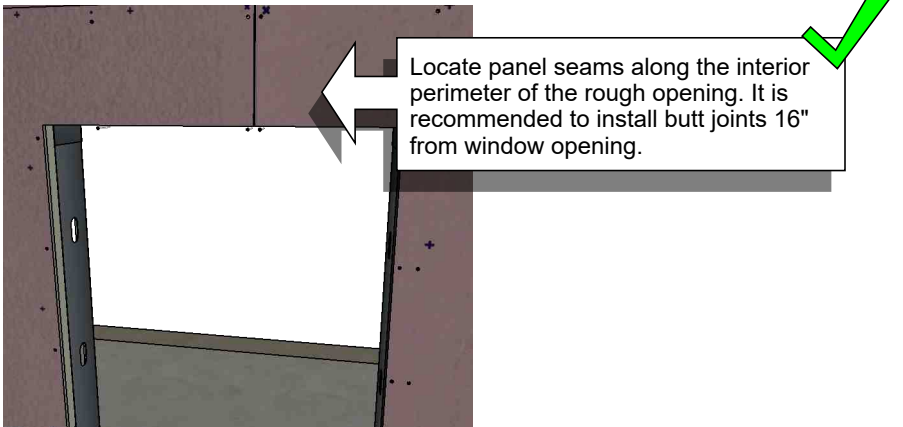
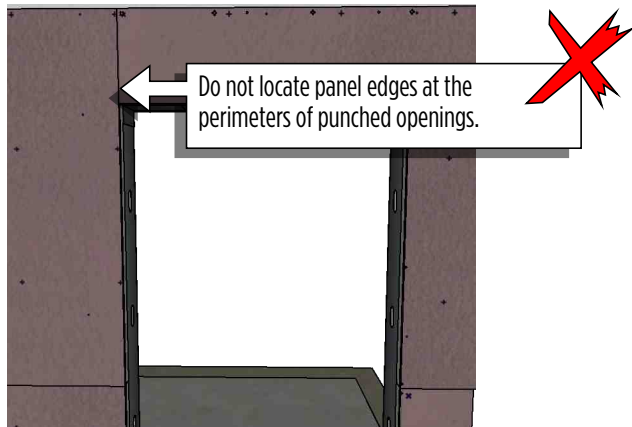
Accurately mark the panel with the necessary dimensions. Using a circular saw, cut out the punched opening along the markings. Take proper care when operating power tools and always wear the required personal protective equipment.



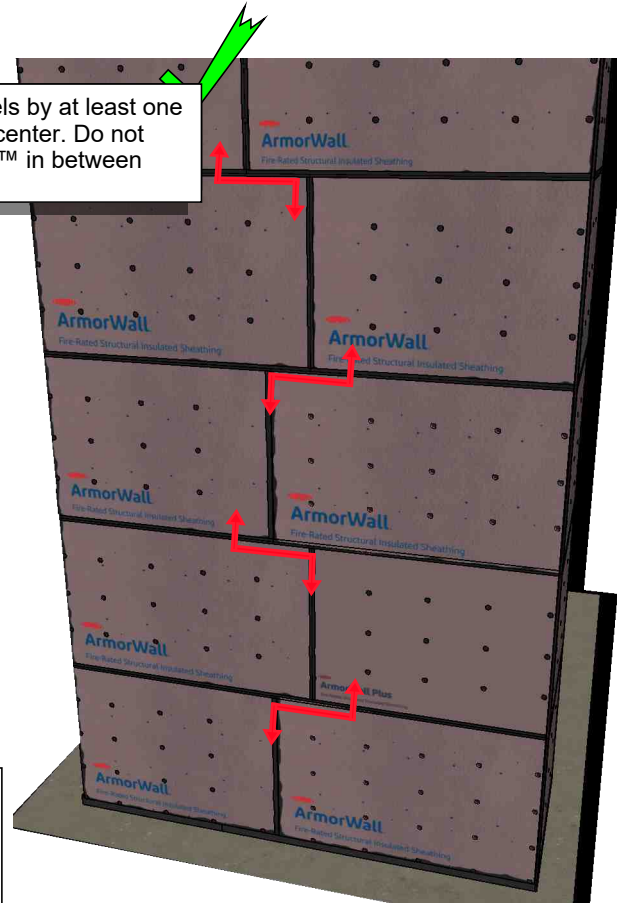
Install ArmorWall™ panels from the center working outwards to help alleviate any possible cupping that could have resulted from transport.



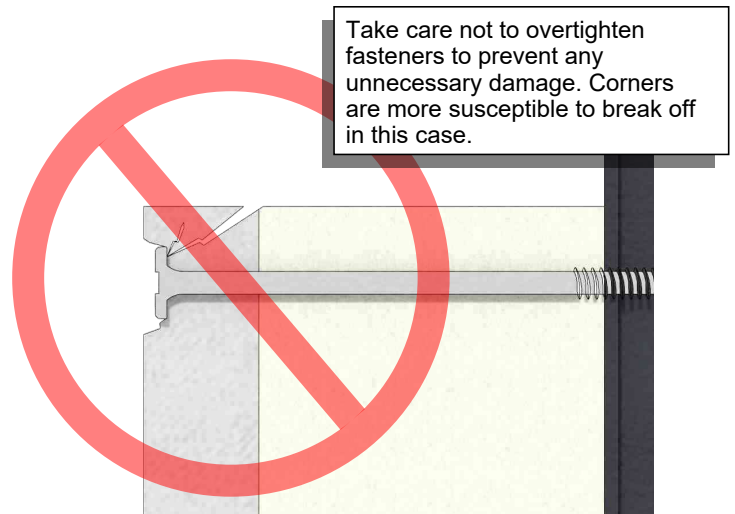
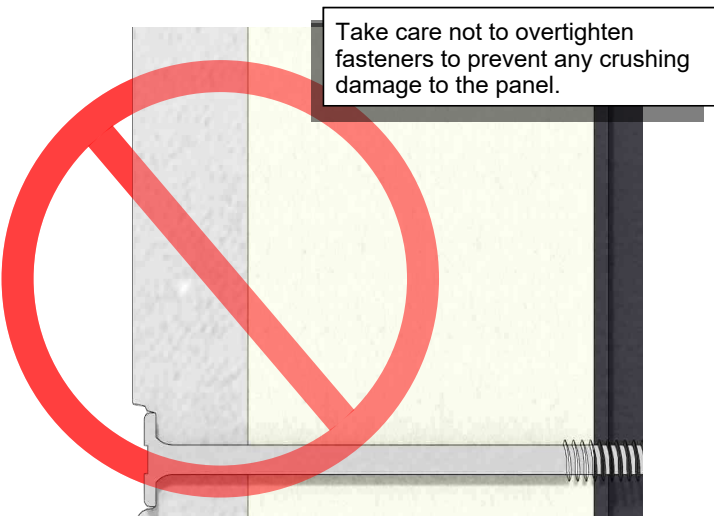
It is recommend to finish the inside corners after the circular saw using a jig saw tool.



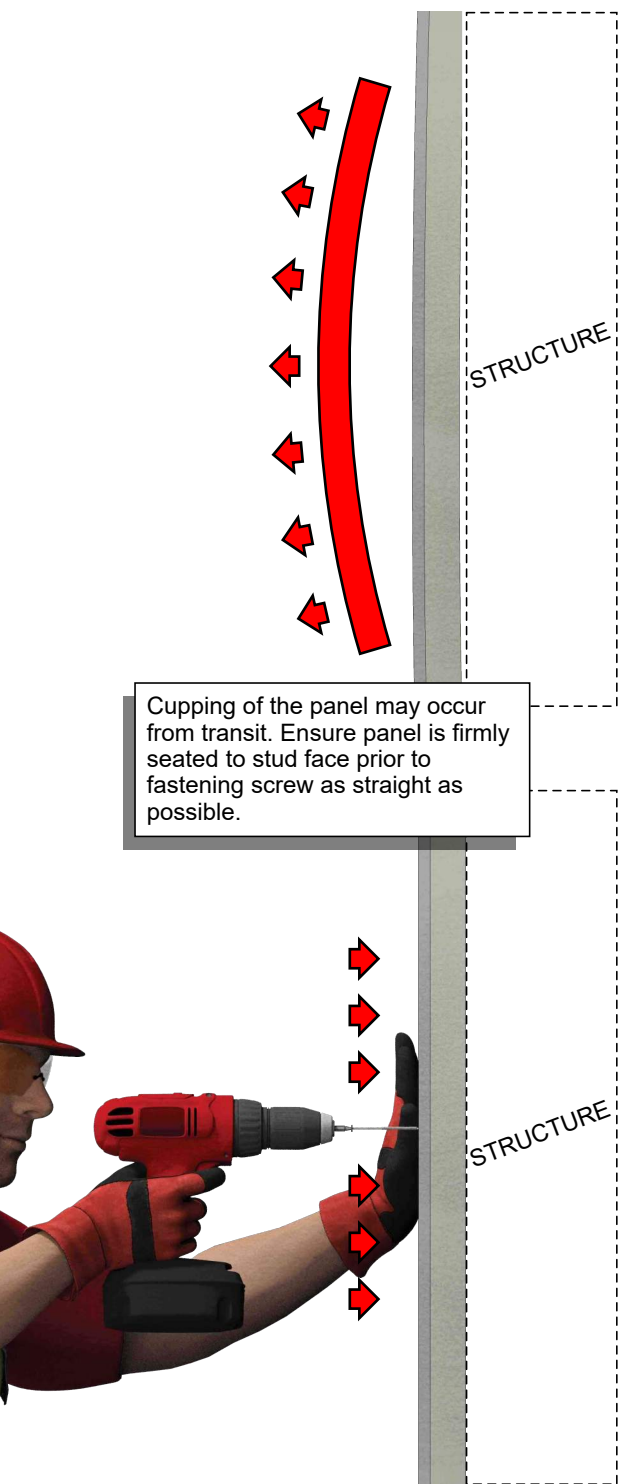
Stagger the panels by at least one stud spacing on center. Do not seam ArmorWall™ in between studs.



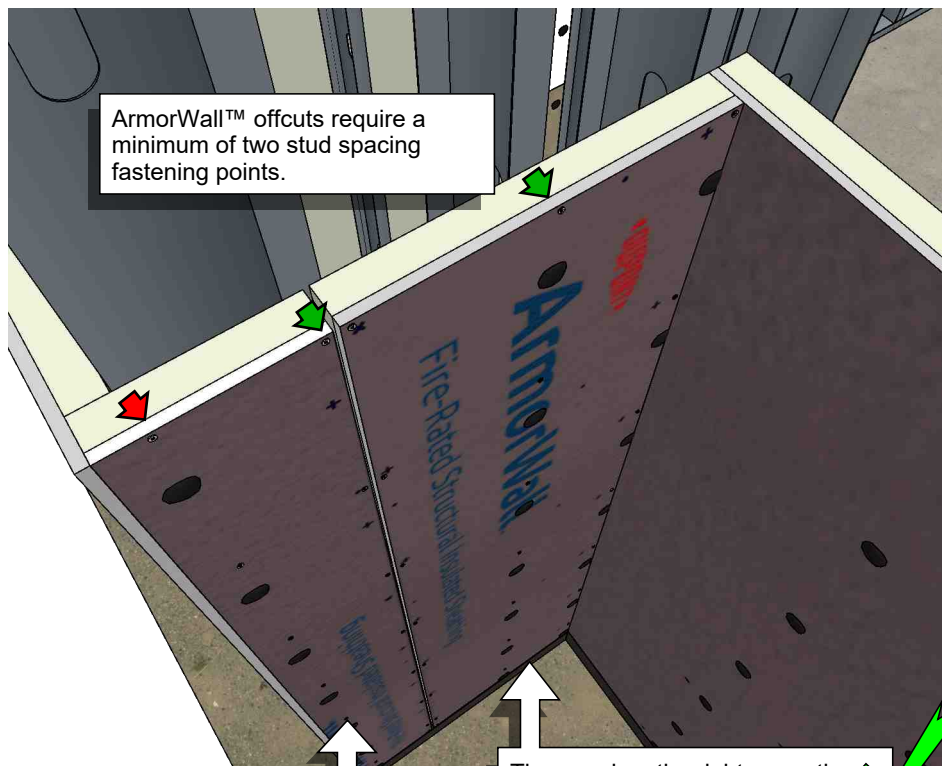
Project team to account for building movements including wood framing shrinkage, structural deflection due to live loads, creep, etc. through appropriately located, sized, and detailed movement joints.







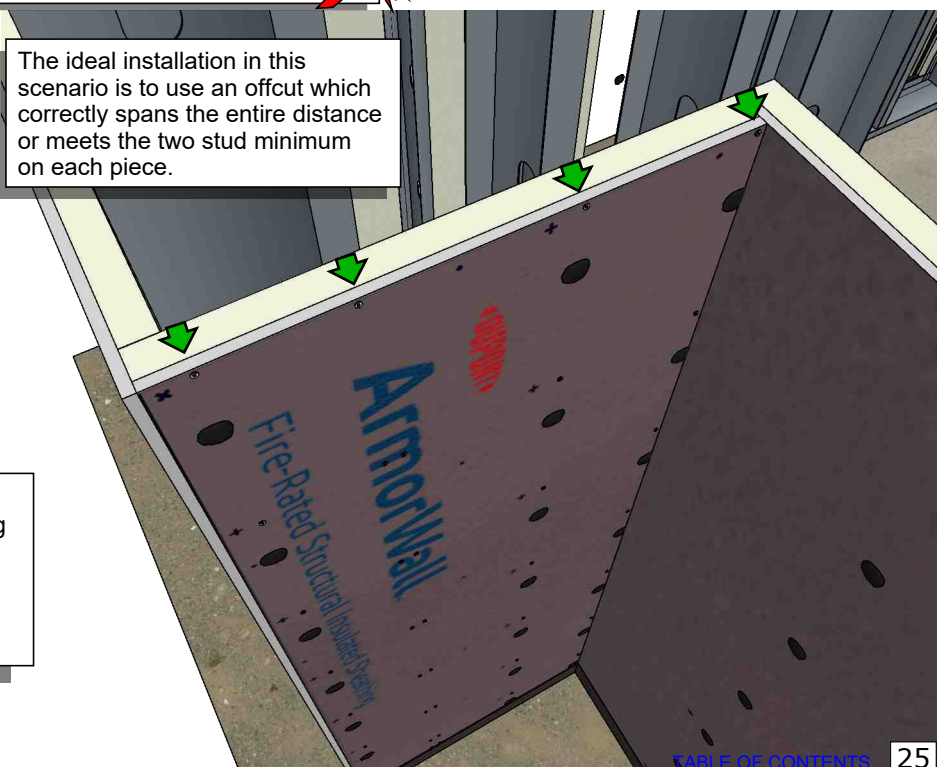
Cupping of the panel may occur from transit. Ensure panel is firmly seated to stud face prior to fastening screw as straight as possible.



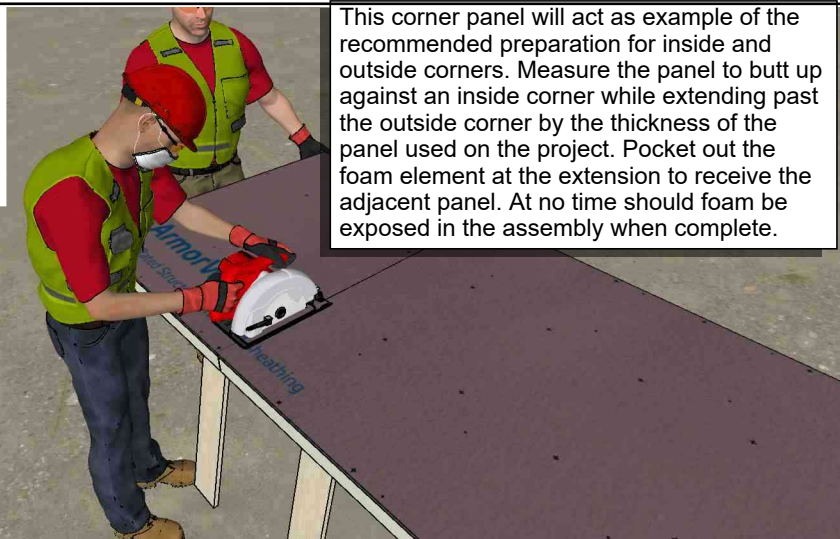
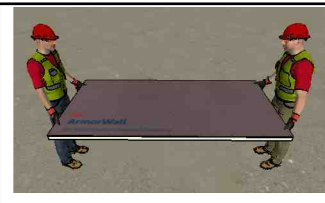
The panel on the left only attaches to a single stud and is incorrectly installed.

The panel on the right correctly spans the minimal two stud requirement.

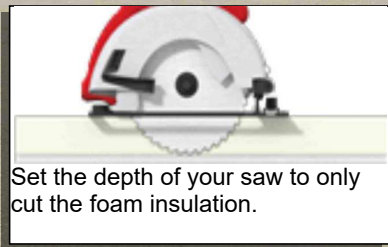
The ideal installation in this scenario is to use an offcut which correctly spans the entire distance or meets the two stud minimum on each piece.



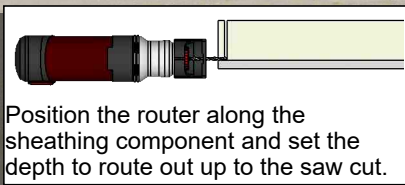
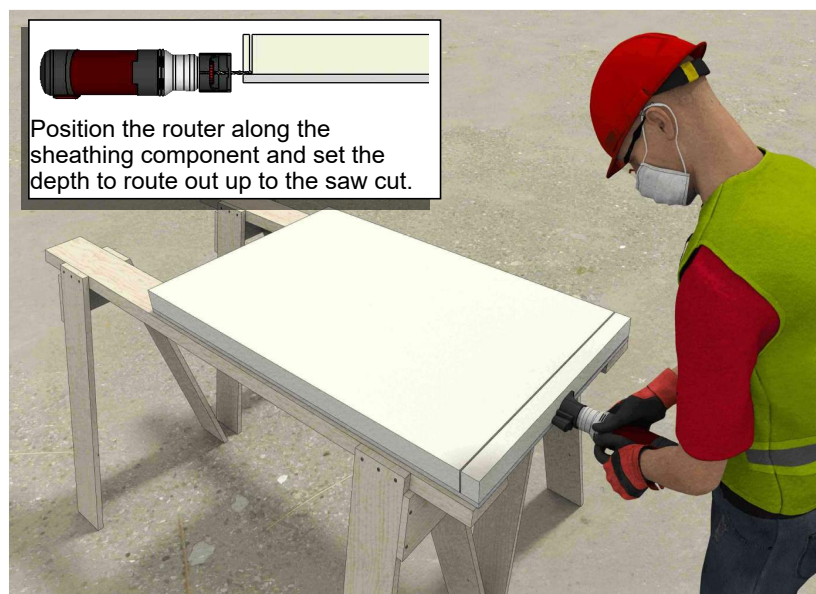
Repairs: Recommended fasteners that miss a framing member should be removed and the hole repaired using DuPont™ LiquidArmor™ FJ Sealant. The sealant must fully encapsulate the hole a minimum of 1/2" in all directions and be proud of the face of the ArmorWall™ panel.



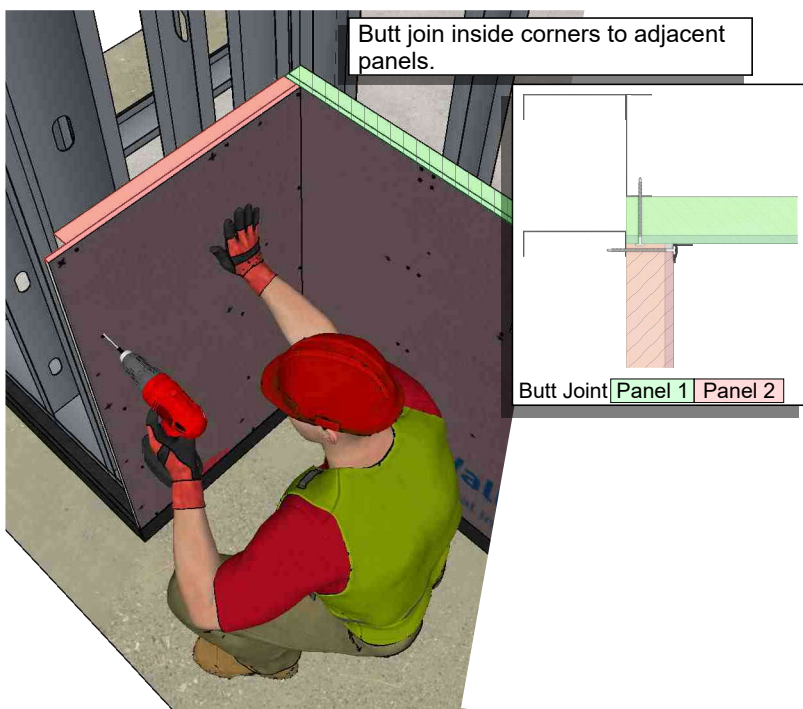
This corner panel will act as example of the recommended preparation for inside and outside corners. Measure the panel to butt up against an inside corner while extending past the outside corner by the thickness of the panel used on the project. Pocket out the foam element at the extension to receive the adjacent panel. At no time should foam be exposed in the assembly when complete.



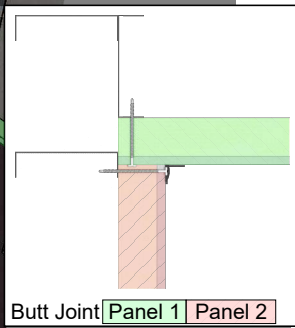
Set the depth of your saw to only cut the foam insulation.



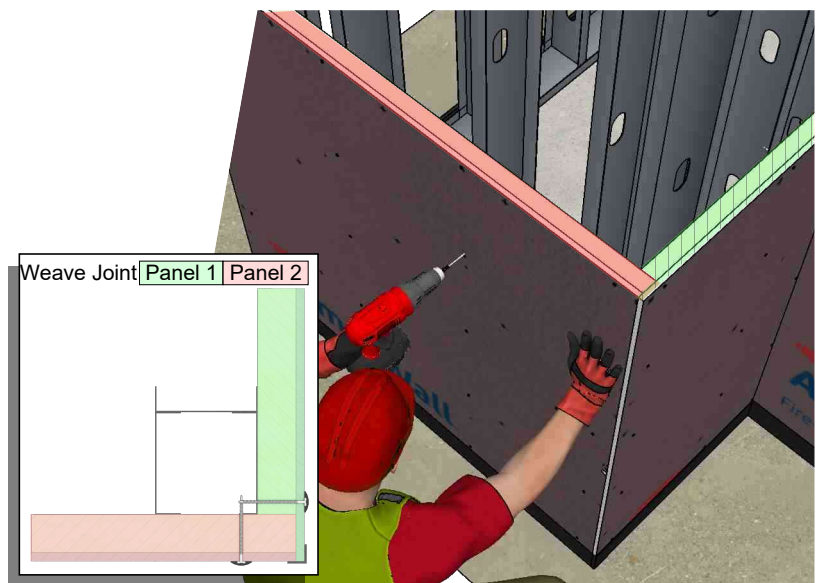
Position the router along the sheathing component and set the depth to route out up to the saw cut.



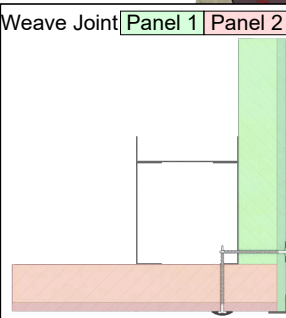
Butt join inside corners to adjacent panels.



Butt Joint Panel 1 Panel 2



Weave Joint Panel 1 Panel 2

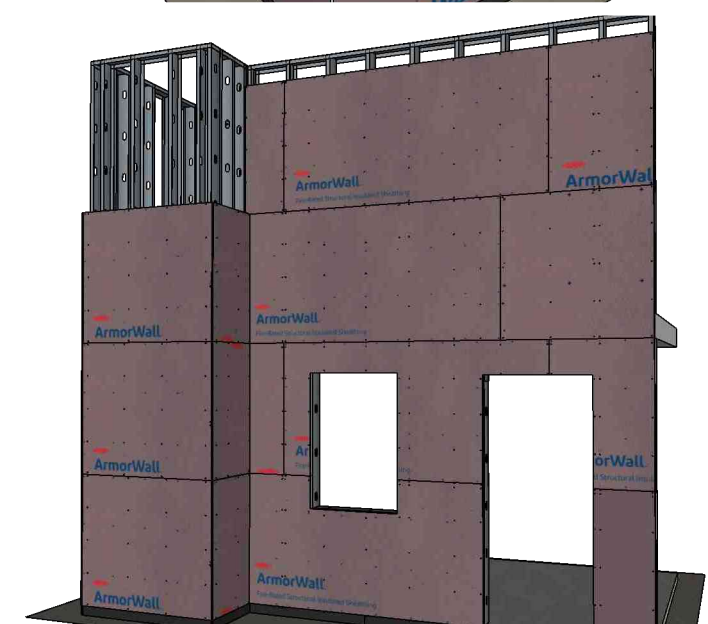
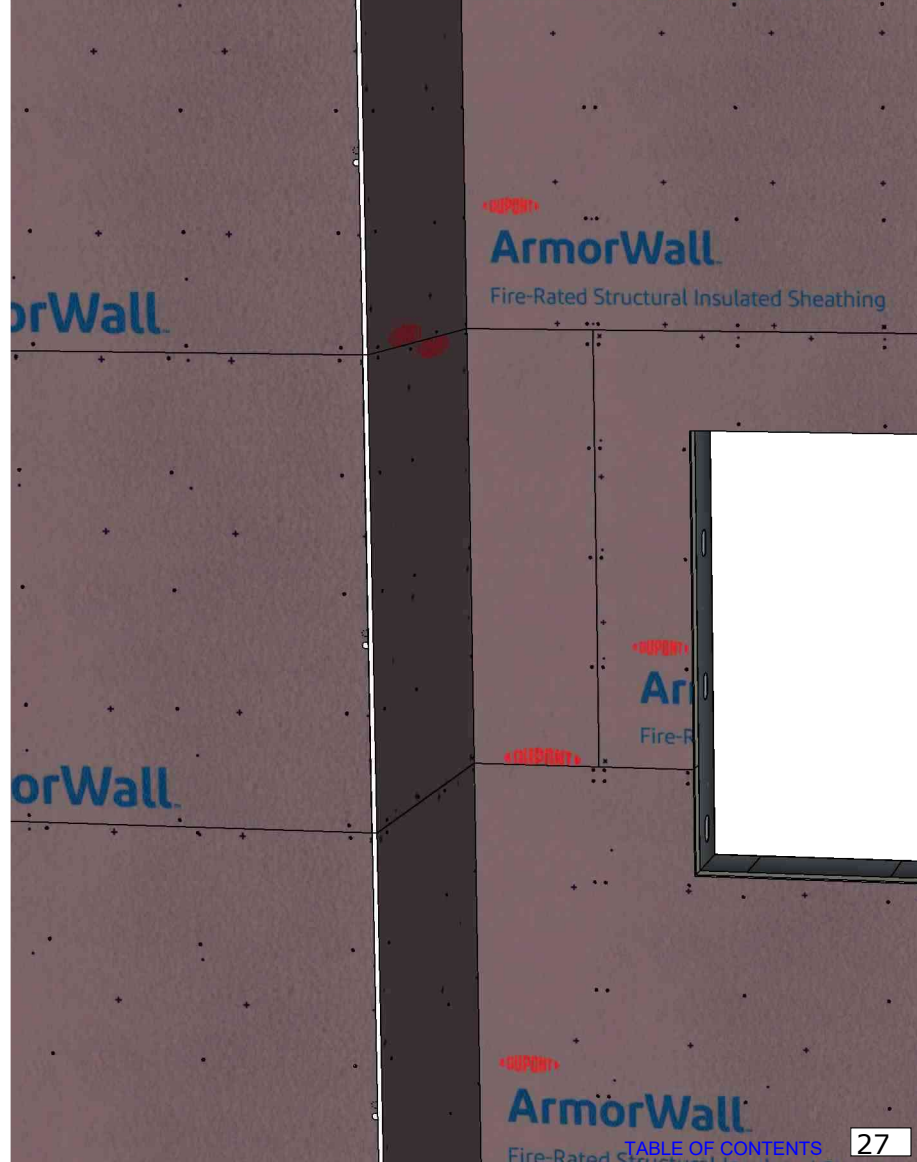


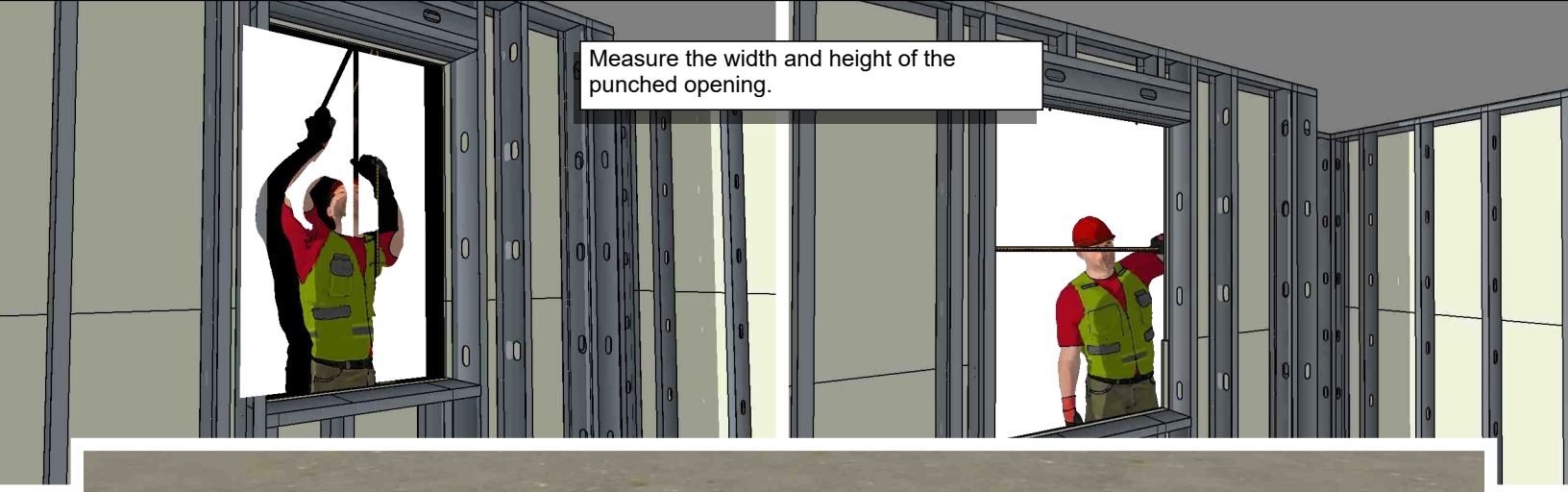
Fasten next panel around the outside corner in to the pocketed extension to complete the weave joint.





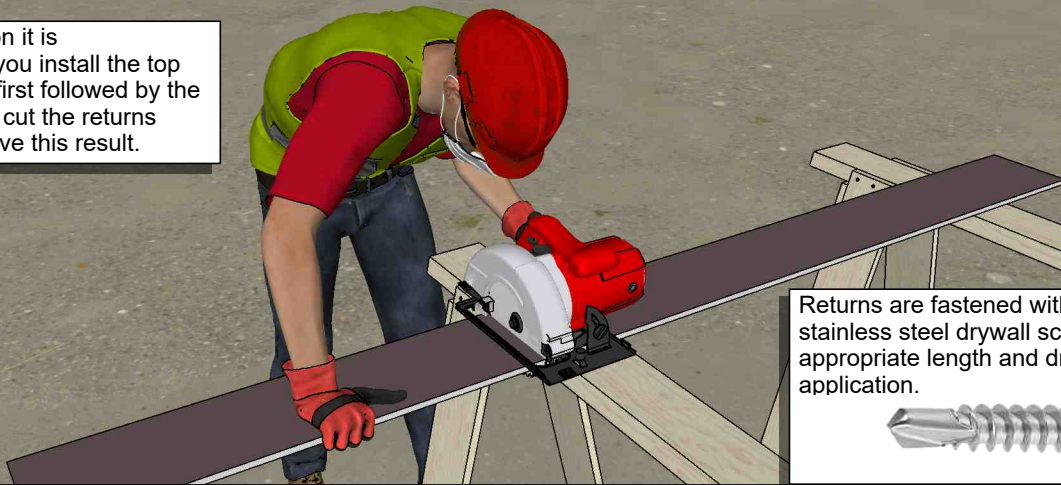
Continue rounding the next corner using the same outside corner steps having prepared the panel for the weave joint.





Measure the width and height of the punched opening.

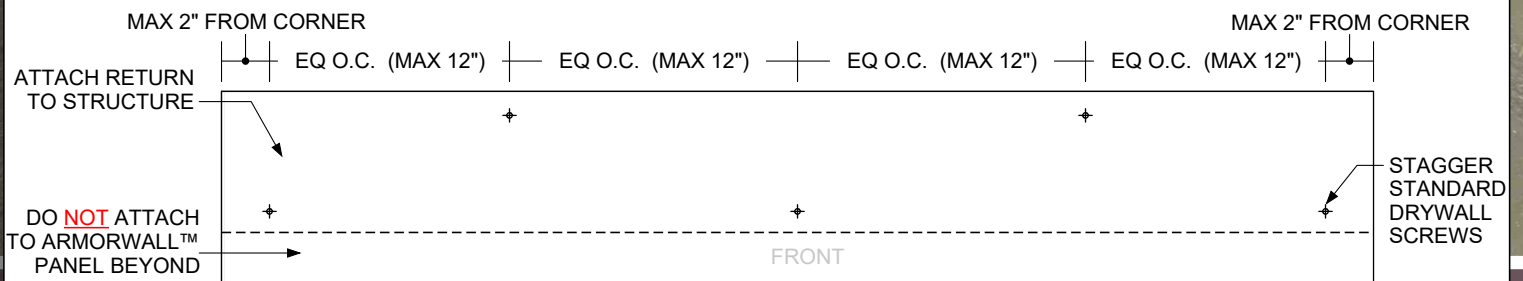
For easier installation it is recommended that you install the top and bottom returns first followed by the sides. Measure and cut the returns accordingly to achieve this result.



Returns are fastened with standard stainless steel drywall screws of appropriate length and drill type for the application.



Return Fastening Pattern



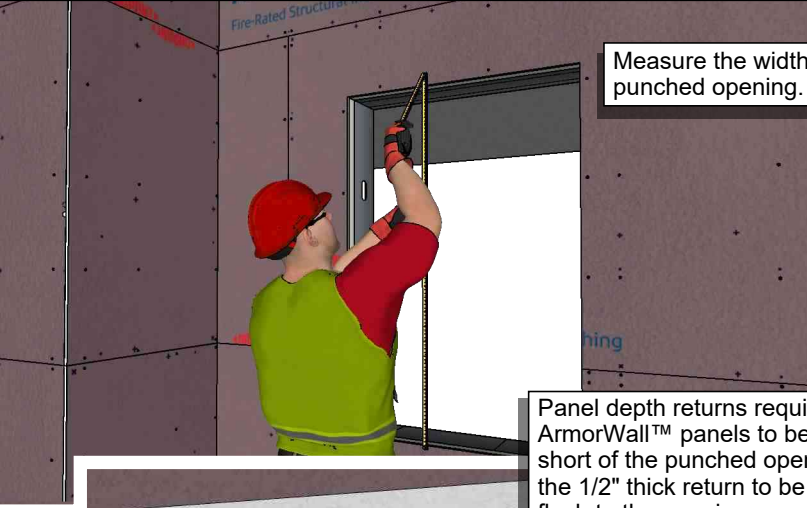
Follow the return fastening pattern to install the top and bottom returns.



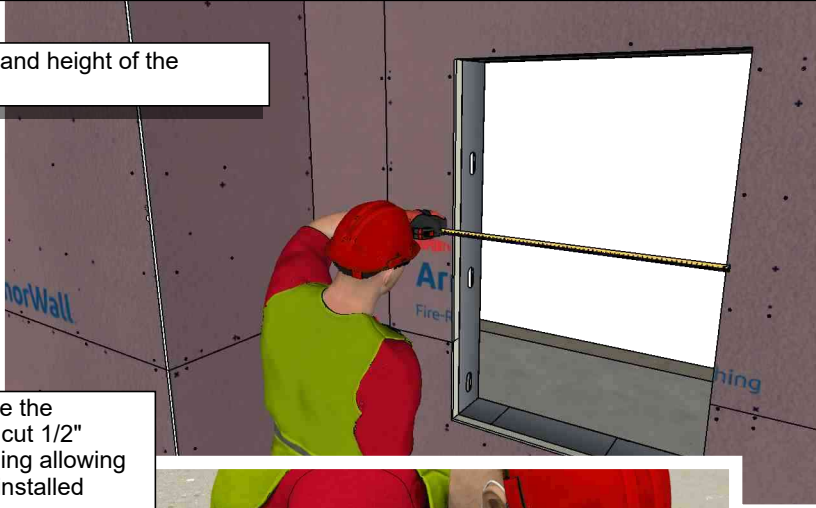
Follow the return fastening pattern to install the side returns.



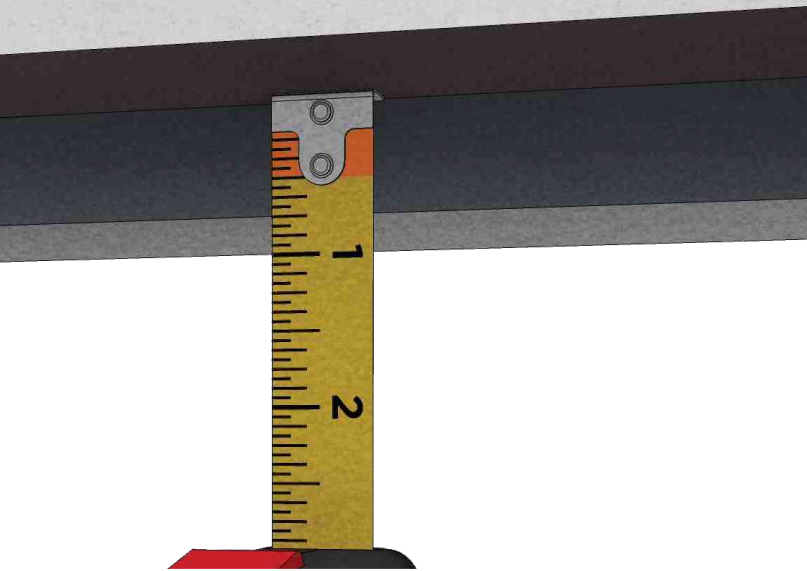




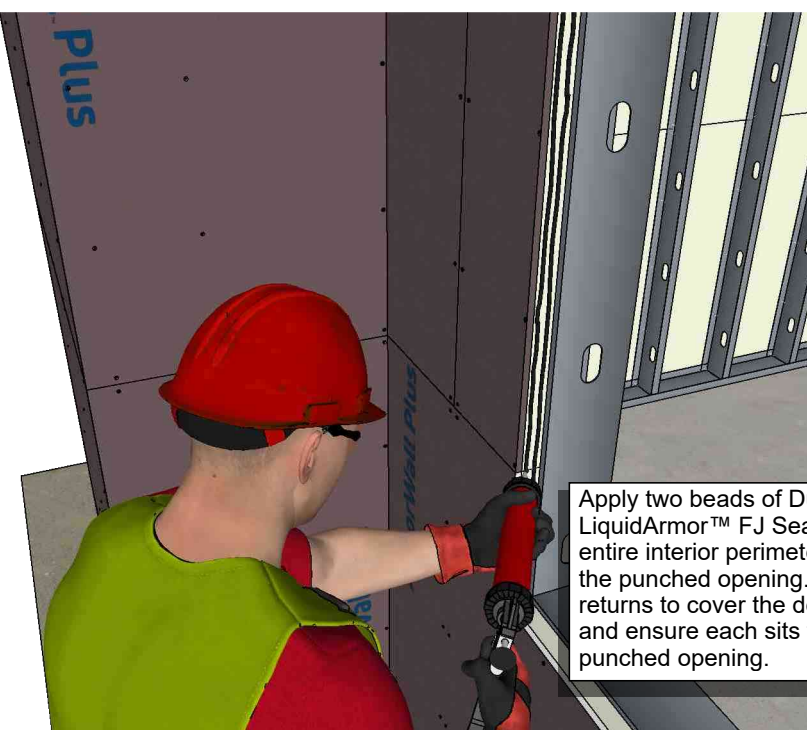
Measure the width and height of the punched opening.



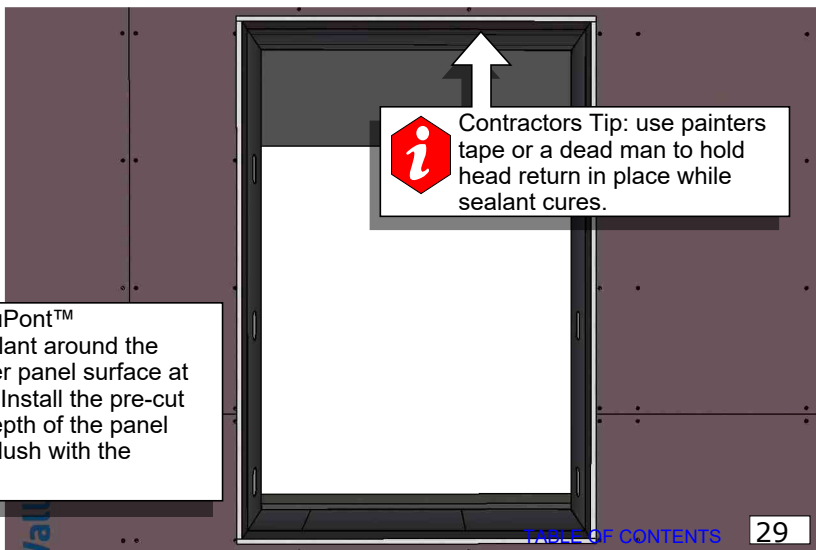
Panel depth returns require the ArmorWall™ panels to be cut 1/2" short of the punched opening allowing the 1/2" thick return to be installed flush to the opening.



For easier installation it is recommended that you install the top and bottom returns first followed by the sides. Measure and cut the returns accordingly to achieve this result.



Apply two beads of DuPont™ LiquidArmor™ FJ Sealant around the entire interior perimeter panel surface at the punched opening. Install the pre-cut returns to cover the depth of the panel and ensure each sits flush with the punched opening.



**Contractors Tip:** use painters tape or a dead man to hold head return in place while sealant cures.

**Contractors Tip:** When estimating DuPont™ LiquidArmor™ FJ, 1 sausage per panel is an approximate usage rate that applies only to panel joints and sheathing fastener heads. Installing estimator must determine additional sealant amounts for rough openings, penetrations, transitions, or any additional locations requiring the use of sealants to complete the air/water barrier.



Always remove all dirt and debris from the ArmorWall™ surface prior to any sealant application.

### DuPont™ LiquidArmor™ FJ Theoretical Coverage Rates

Width (@ 35 mils)	Coverage/sausage (LF)
6 inches	12 feet
3 inches	24 feet
2 inches	36 feet

Using a 20 oz sausage caulking gun, apply a dollop of LiquidArmor™ FJ Sealant to all exposed fastener heads with a sufficient amount to fully be sealed.

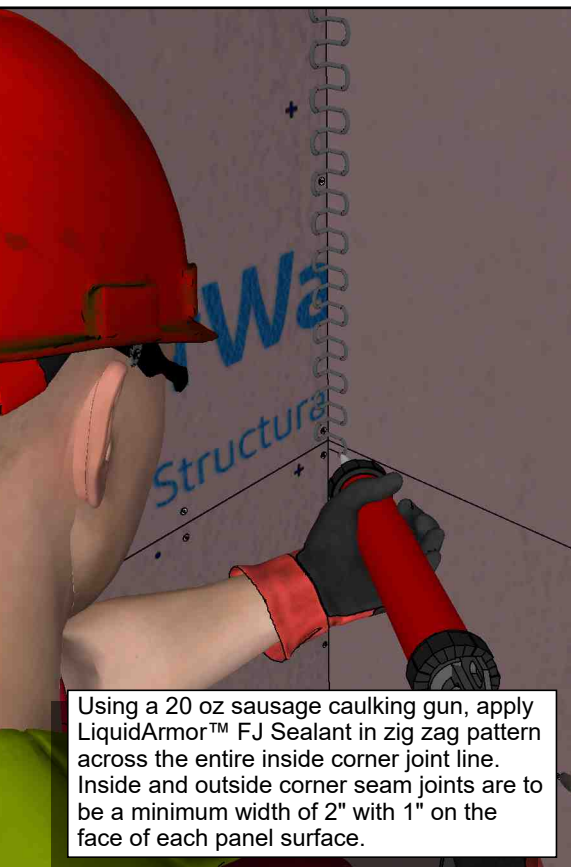
Using a putty knife, immediately strike each fastener head to appropriately seal the fastener penetration.

Fastener should be completely encapsulated by LiquidArmor™ FJ Sealant forming an airtight seal.

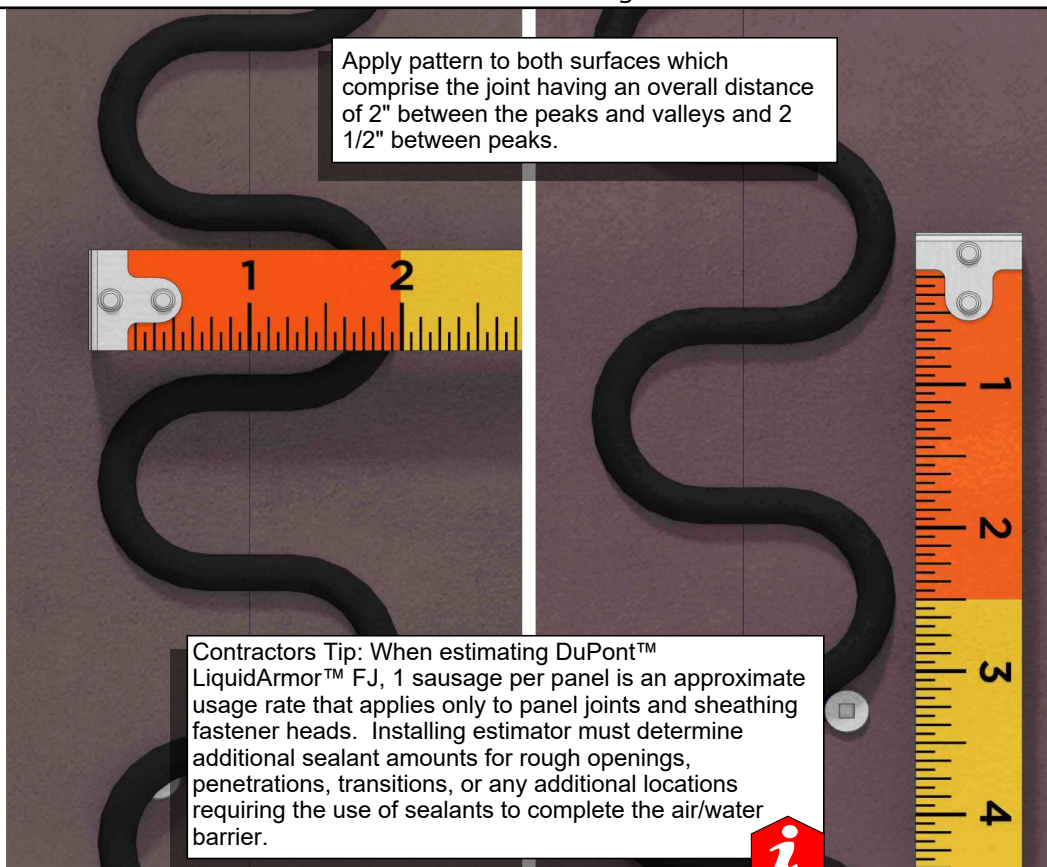


**Installer Requirement:** ArmorWall™ System's board joints and fastener heads shall be sealed or otherwise protected from rain within (30) days from ArmorWall Plus installation or prior to a weather/rainfall event.



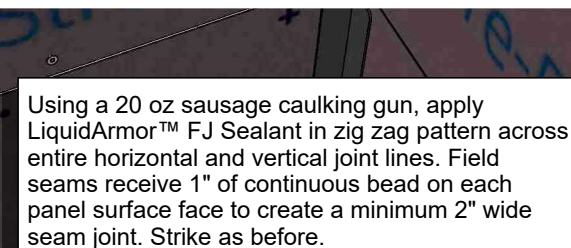


Using a 20 oz sausage caulk gun, apply LiquidArmor™ FJ Sealant in zig zag pattern across the entire inside corner joint line. Inside and outside corner seam joints are to be a minimum width of 2" with 1" on the face of each panel surface.

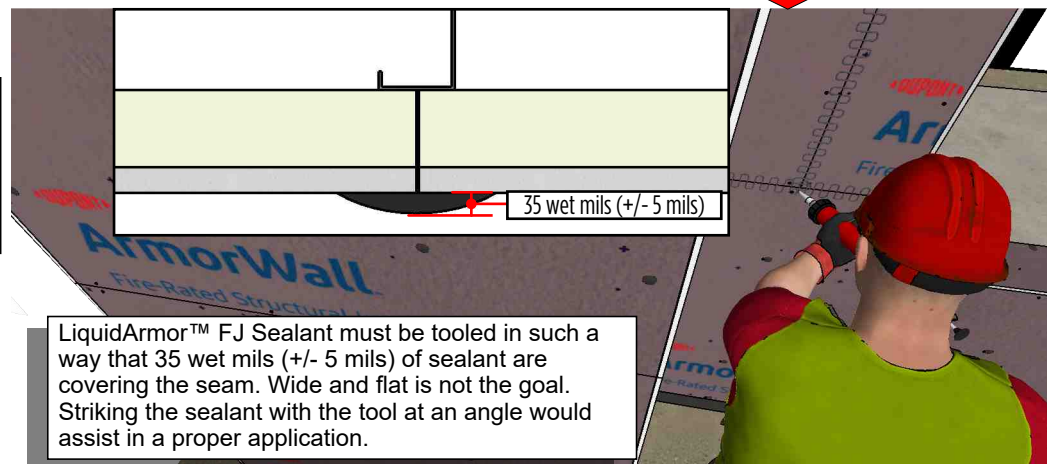


Apply pattern to both surfaces which comprise the joint having an overall distance of 2" between the peaks and valleys and 2 1/2" between peaks.

**Contractors Tip:** When estimating DuPont™ LiquidArmor™ FJ, 1 sausage per panel is an approximate usage rate that applies only to panel joints and sheathing fastener heads. Installing estimator must determine additional sealant amounts for rough openings, penetrations, transitions, or any additional locations requiring the use of sealants to complete the air/water barrier.

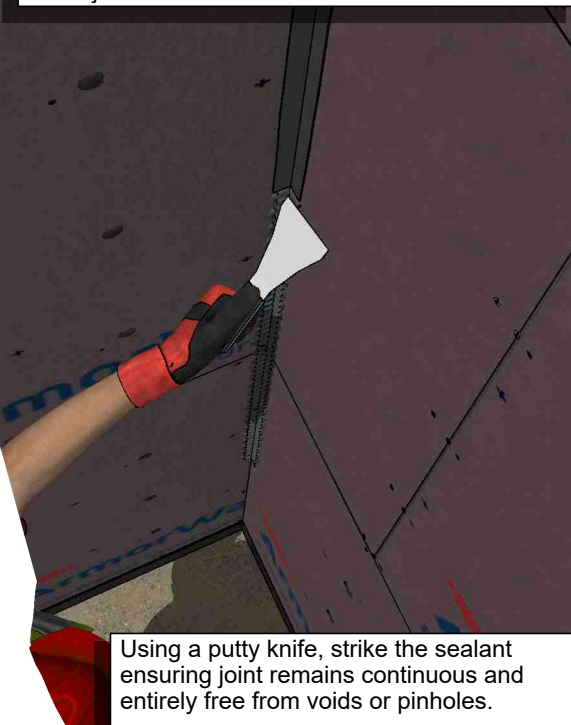


Using a 20 oz sausage caulk gun, apply LiquidArmor™ FJ Sealant in zig zag pattern across entire horizontal and vertical joint lines. Field seams receive 1" of continuous bead on each panel surface face to create a minimum 2" wide seam joint. Strike as before.



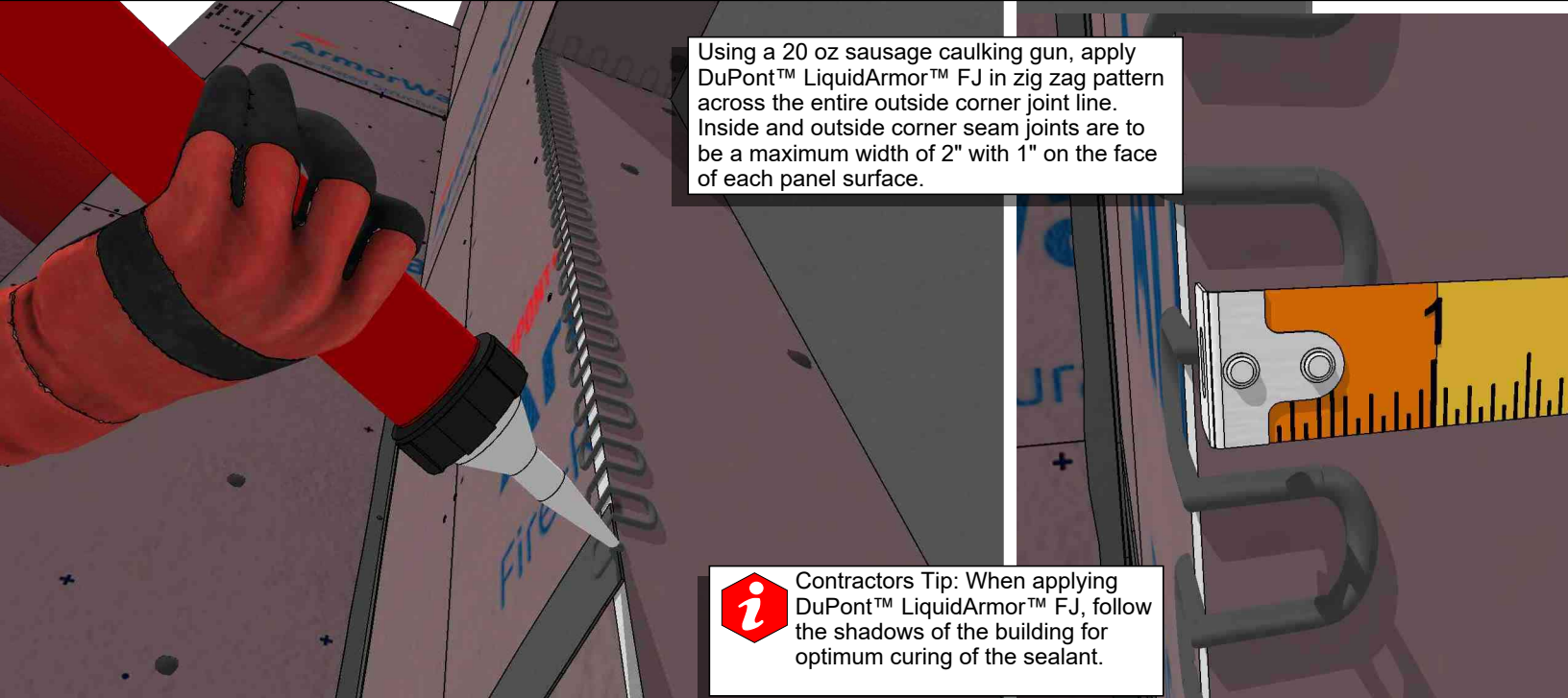
35 wet mils (+/- 5 mils)

LiquidArmor™ FJ Sealant must be tooled in such a way that 35 wet mils (+/- 5 mils) of sealant are covering the seam. Wide and flat is not the goal. Striking the sealant with the tool at an angle would assist in a proper application.



Using a putty knife, strike the sealant ensuring joint remains continuous and entirely free from voids or pinholes.





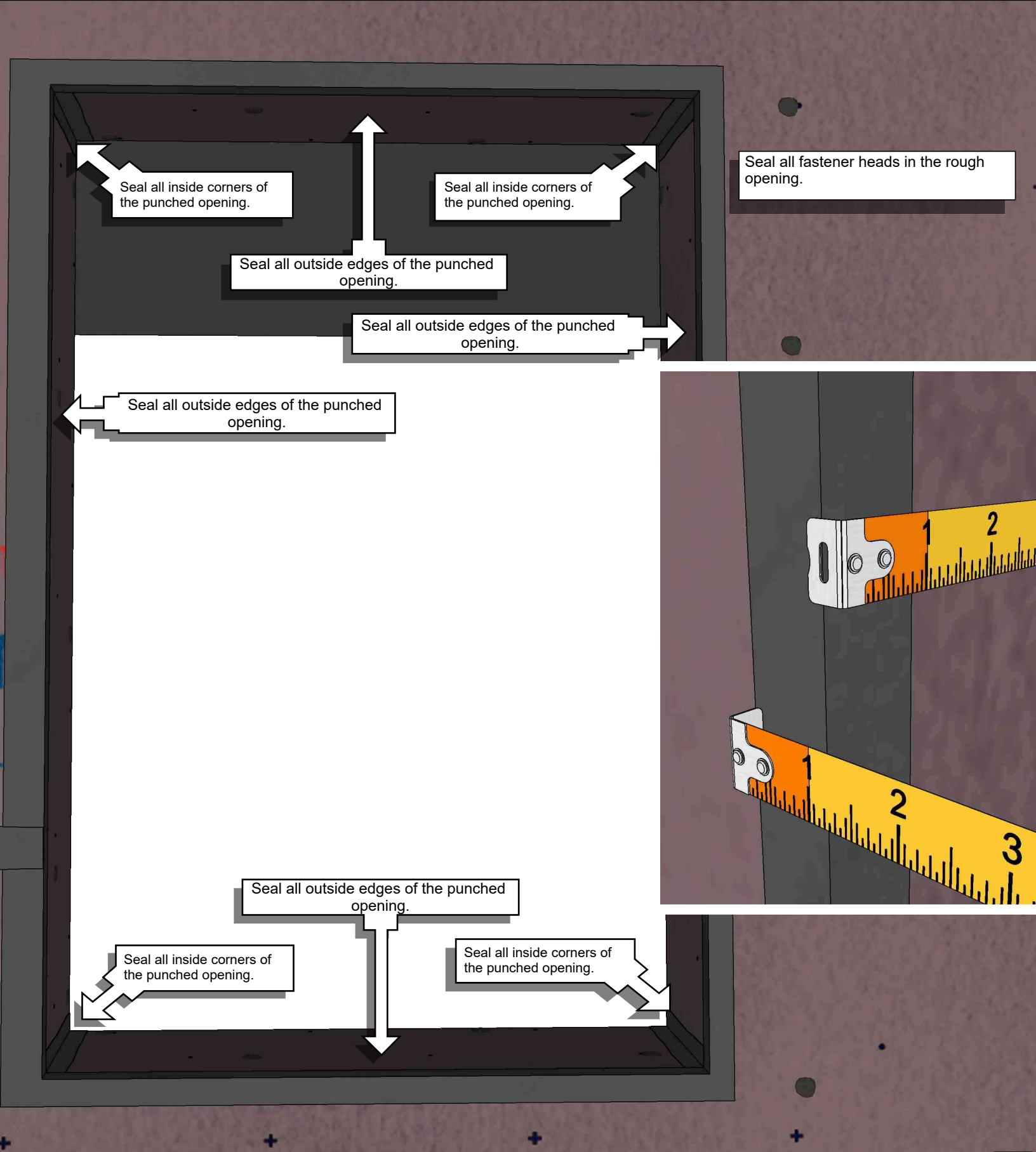
Continue sealing the assembly.

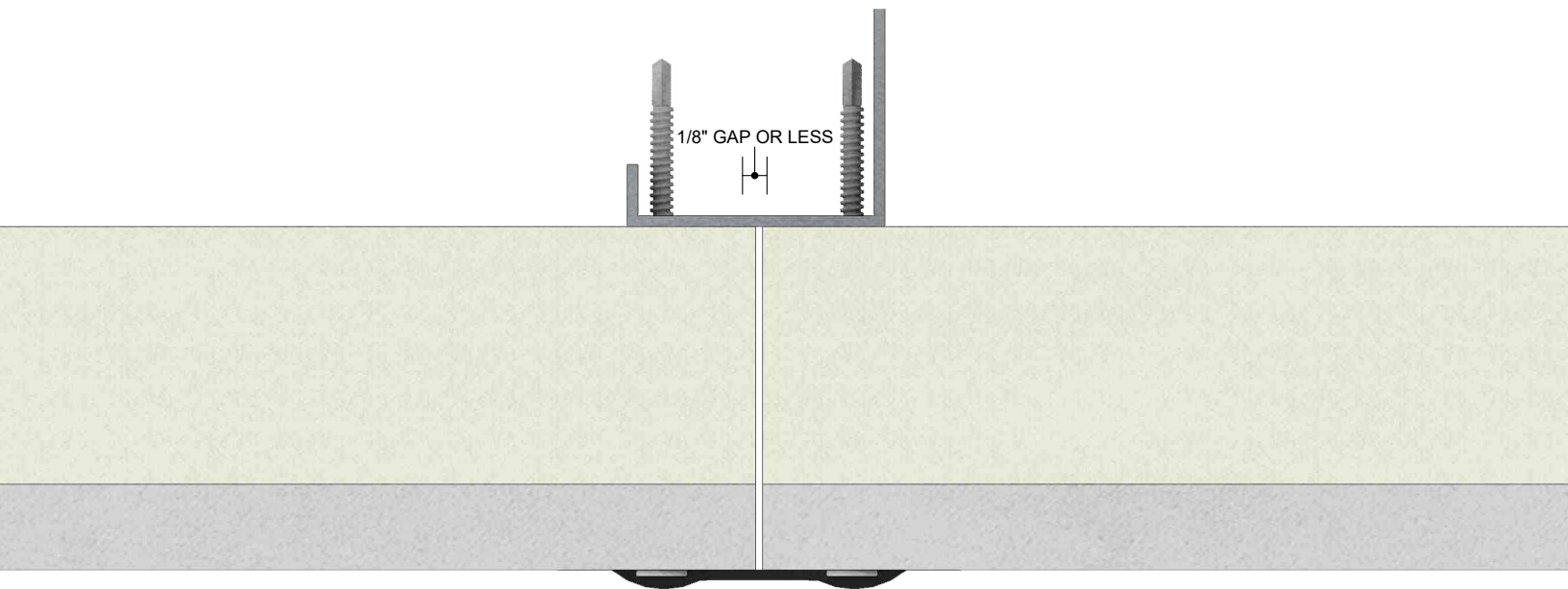
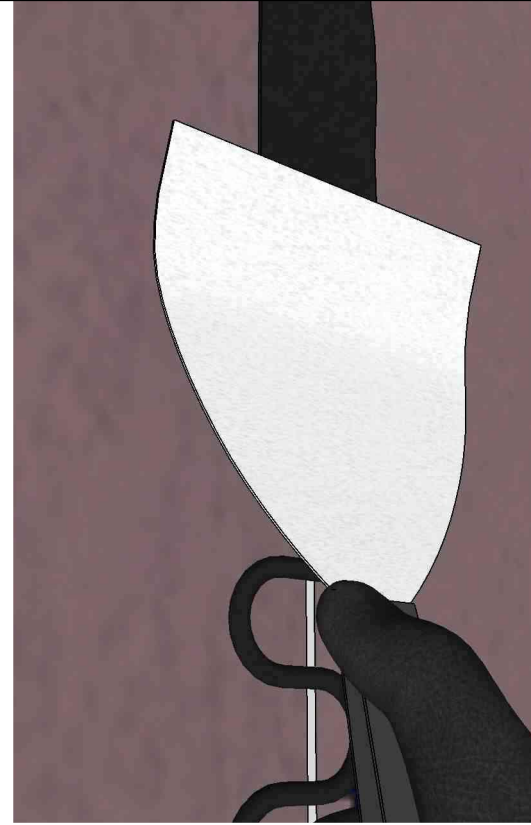
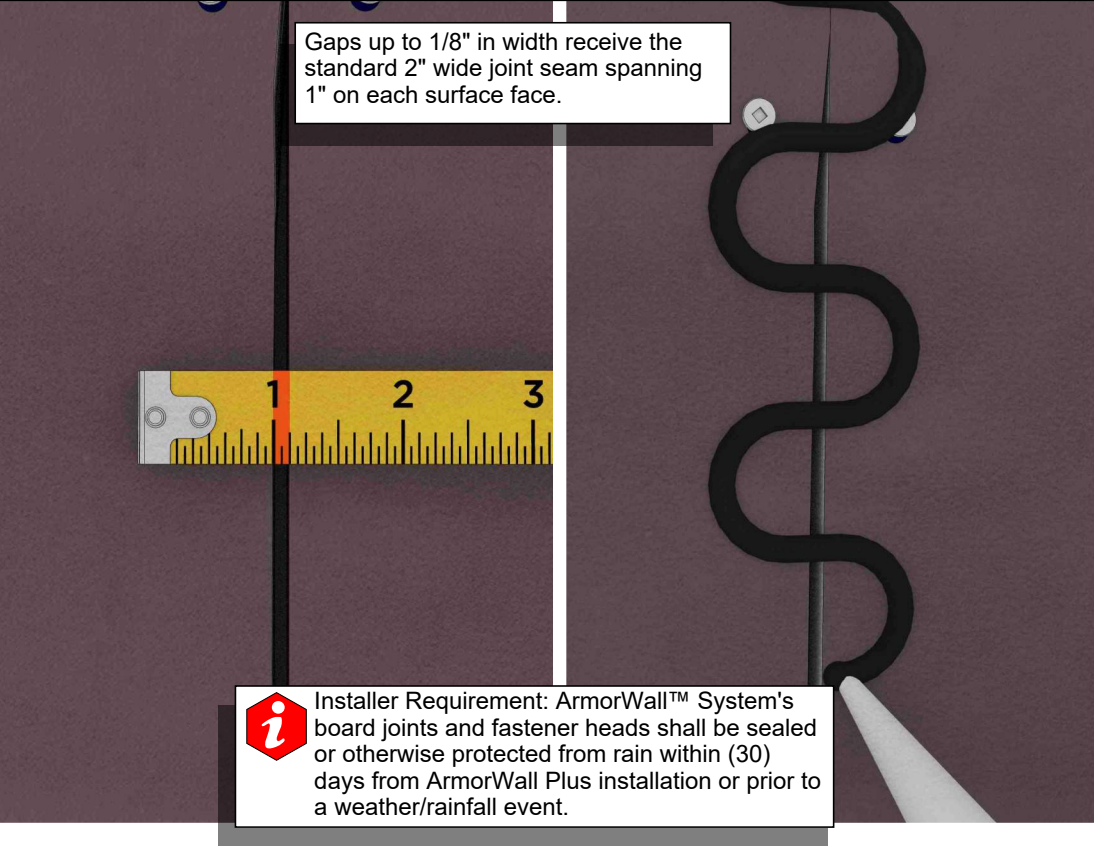
### DuPont™ LiquidArmor™ FJ Theoretical Coverage Rates

Width (@ 35 mils)	Coverage/sausage (LF)
6 inches	12 feet
3 inches	24 feet
2 inches	36 feet









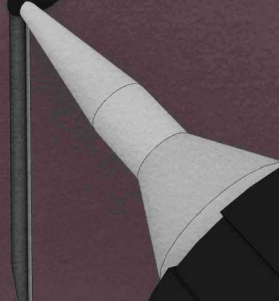
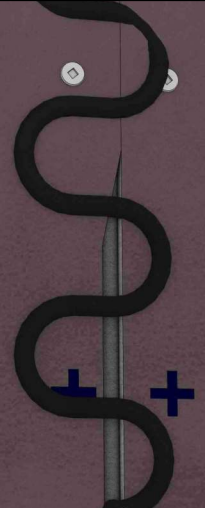
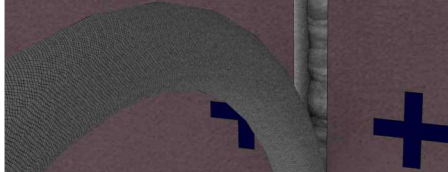




## ArmorWall™ System Installation Manual

Sealing Gaps Greater Than 1/8" to 3/4"

Fill gaps greater than 1/8" to 3/4" with DuPont™ GREAT STUFF™ Gaps & Cracks insulating foam or compressible insulation filler followed by a compressed backer rod and ArmorSeal Sealant. Seams and gaps receive the standard 2" wide joint seam spanning 1" on each surface face.



**Installer Requirement:** ArmorWall™ System's board joints and fastener heads shall be sealed or otherwise protected from rain within (30) days from ArmorWall Plus installation or prior to a weather/rainfall event.

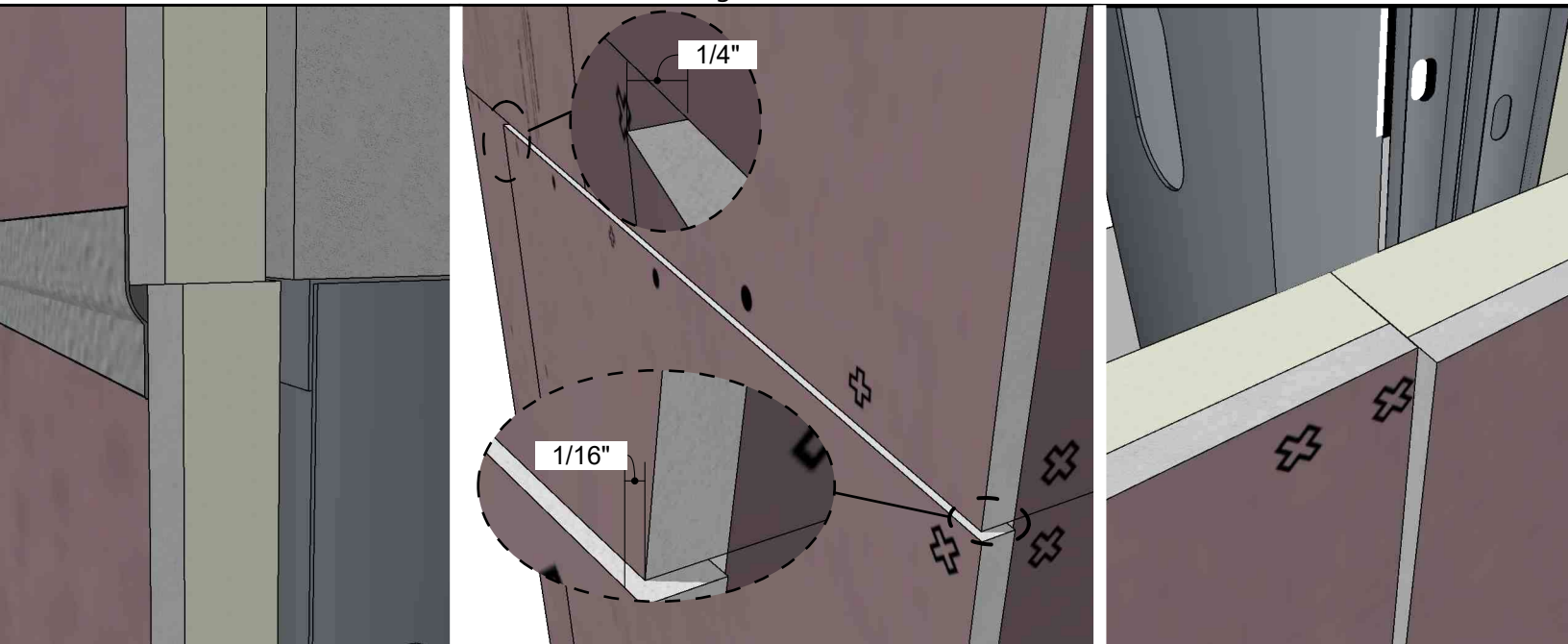
GREATER THAN  
1/8" TO 3/4"





# ArmorWall™ System Installation Manual

## Sealing Out-of-Plane Installations and Dissimilar Material Tie-In's



### For Out-of-Plane Panels on the DuPont™ ArmorWall™ System:

ArmorWall™ System panel joints are intended to be installed with care to create a flush surface from one board to the other. Out-of-plane installations may be adjusted up to 1/8" by loosening or tightening the panel attachment fasteners provided the panel remains in contact with the framing member. Abutting ArmorWall™ System panel joints up to 1/16" out-of-plane may be covered with DuPont™ LiquidArmor™ FJ Sealant at 35 wet mils (+/- 5 mils).

ArmorWall™ System Panel joints greater than 1/16" out-of-plane: Apply a fillet bead of LiquidArmor™ FJ Sealant and strike the sealant to approximately 1/2" wide and the height of the panel offset prior to additional sealant. Apply additional LiquidArmor™ FJ Sealant and maintain a minimum of 50 wet mils (+/- 5 mils) over the required joint application. Installer shall ensure 50 wet mils (+/- 5 mils) is applied along the entire joint, including the highest point of the out-of-plane panel.

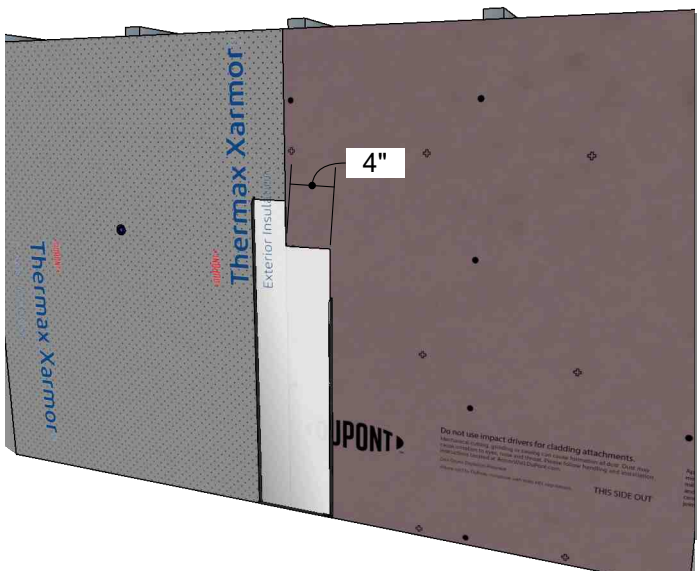
ArmorWall™ System Panel joints greater than 1/4" out-of-plane: Apply a flexible expansion seal across the out-of-plane joint (see page 36).

### For ArmorWall™ Panel Tie-ins with Dissimilar Materials:

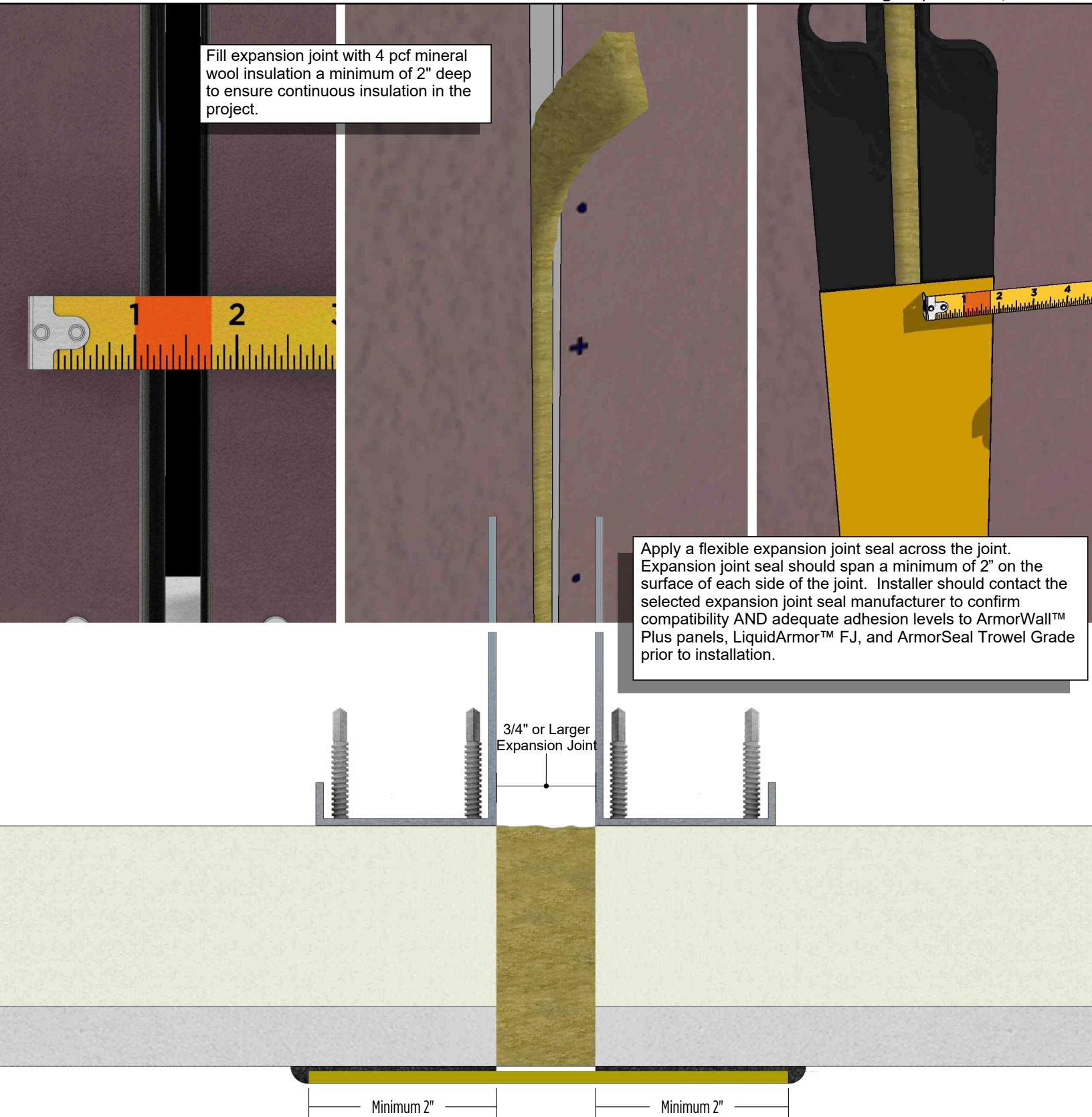
Framed walls that include ArmorWall™ System panels may experience differing levels of movement versus abutting dissimilar materials such as concrete/CMU block or penetrating steel. The design professional is ultimately responsible for determining whether this type of joint needs to be designed for a movement joint or an expansion joint. For joints where differential movement is not expected one of the following methods of treating a dissimilar material joint:

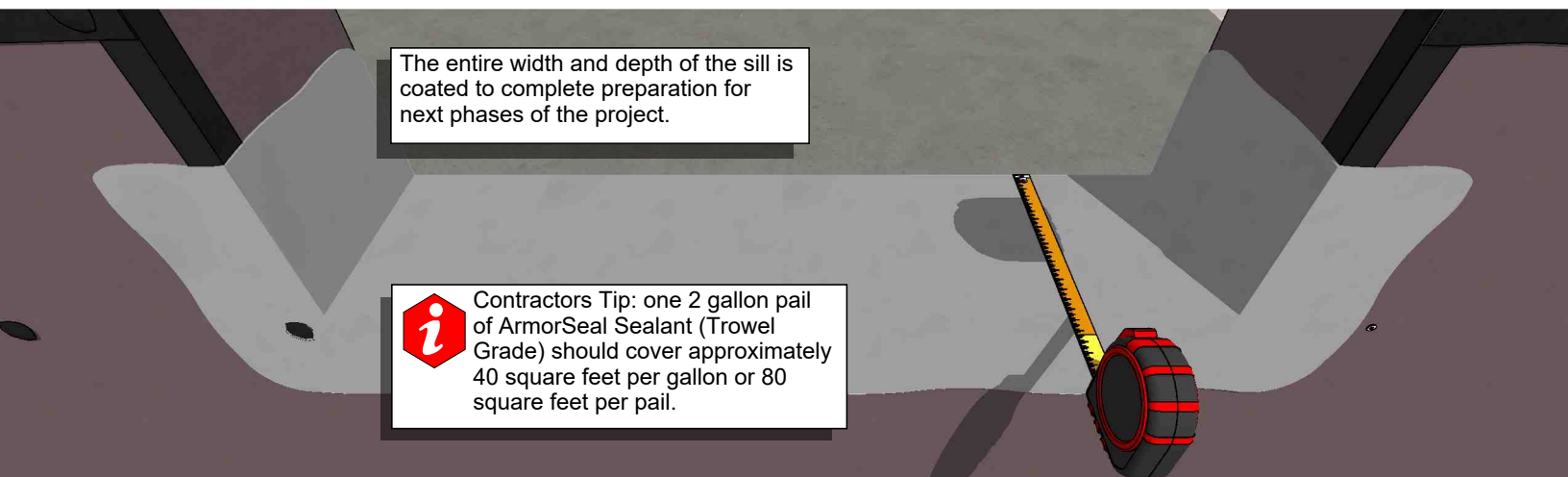
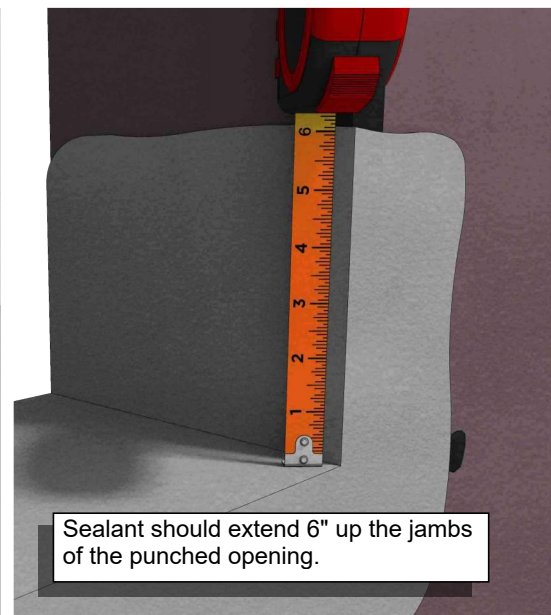
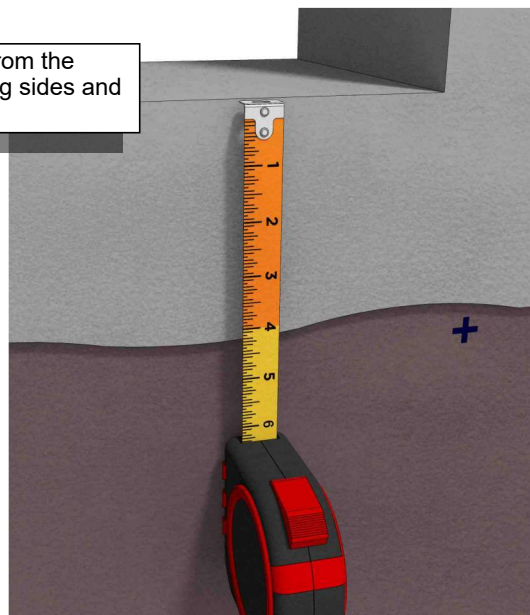
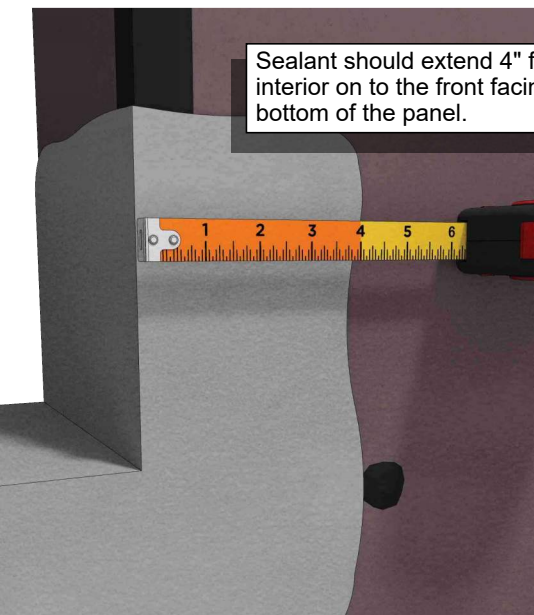
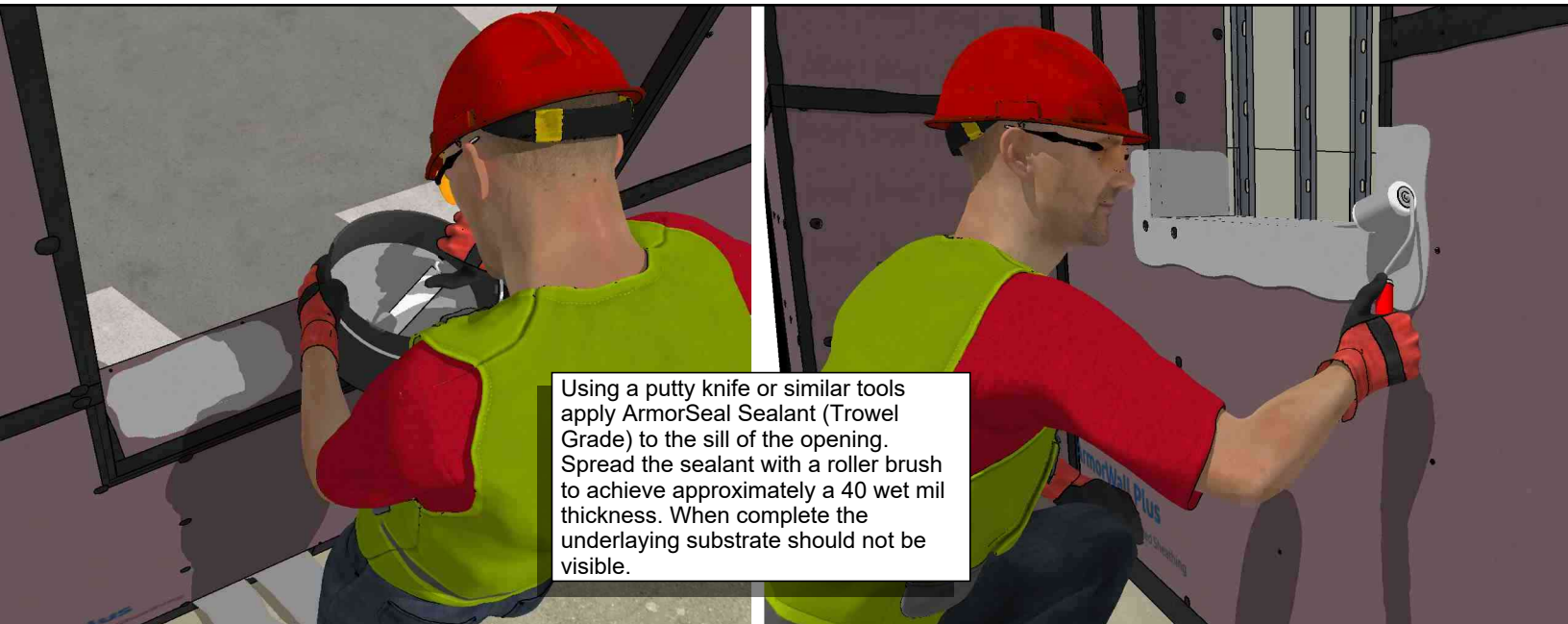
DuPont™ DuraGard™ CM Flashing. DuraGard™ CM Flashing must adhere a minimum of 2-inches onto adjacent dissimilar material and a minimum of 4 inches onto the ArmorWall™ System panels. Installer shall use a spray adhesive/primer before adhering DuraGard™ CM Flashing onto substrates such as concrete, CMU block, and exterior glass-fiber faced gypsum board. DuraGard™ CM Flashing may NOT be used when this type of joint is skyward (upward) facing.

Apply a flexible expansion seal across the dissimilar material joint (see page 36). Installer should verify the correct installation procedure for both substrates with the flexible expansion joint manufacturer.

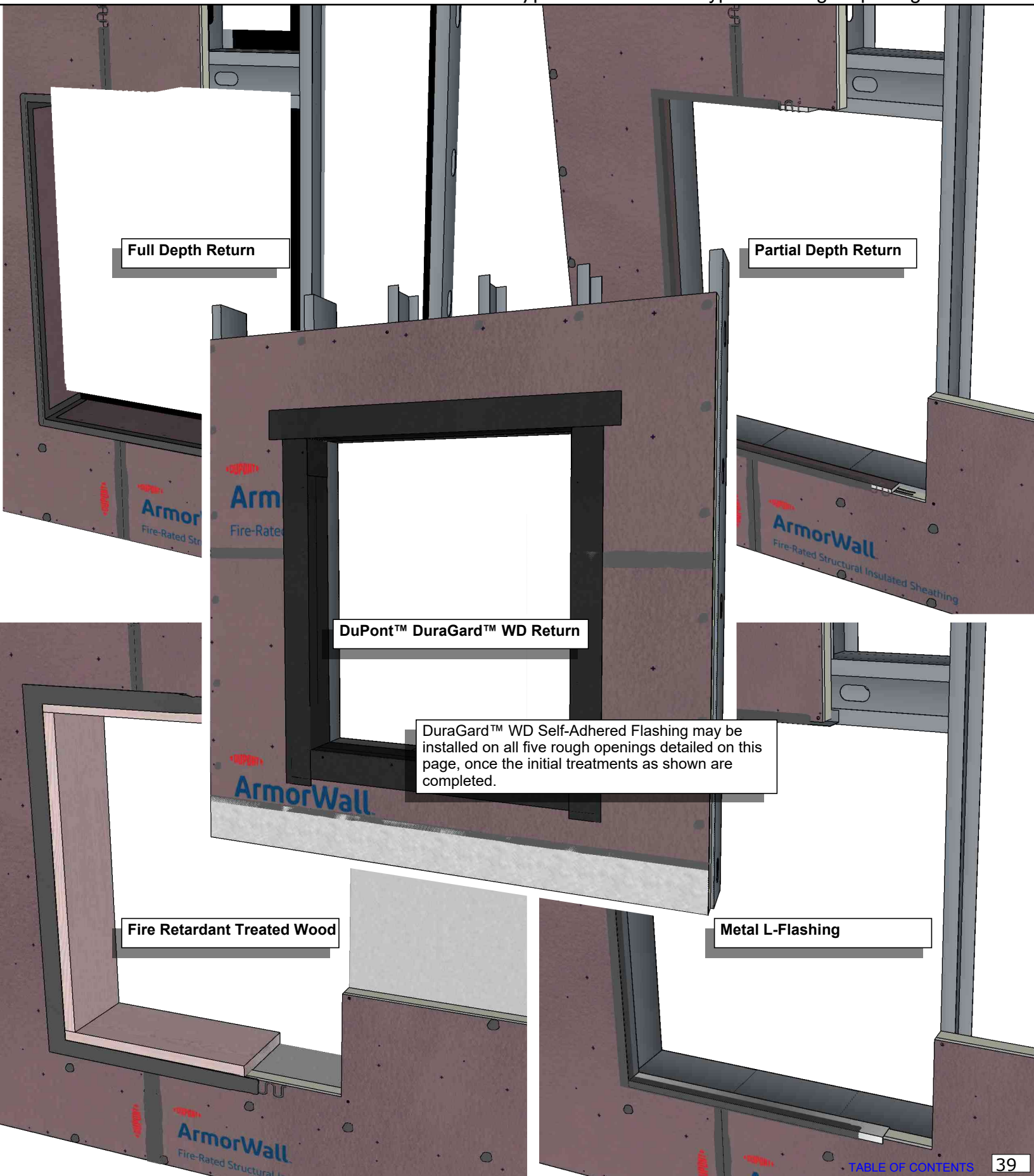














# ArmorWall™ System Installation Manual

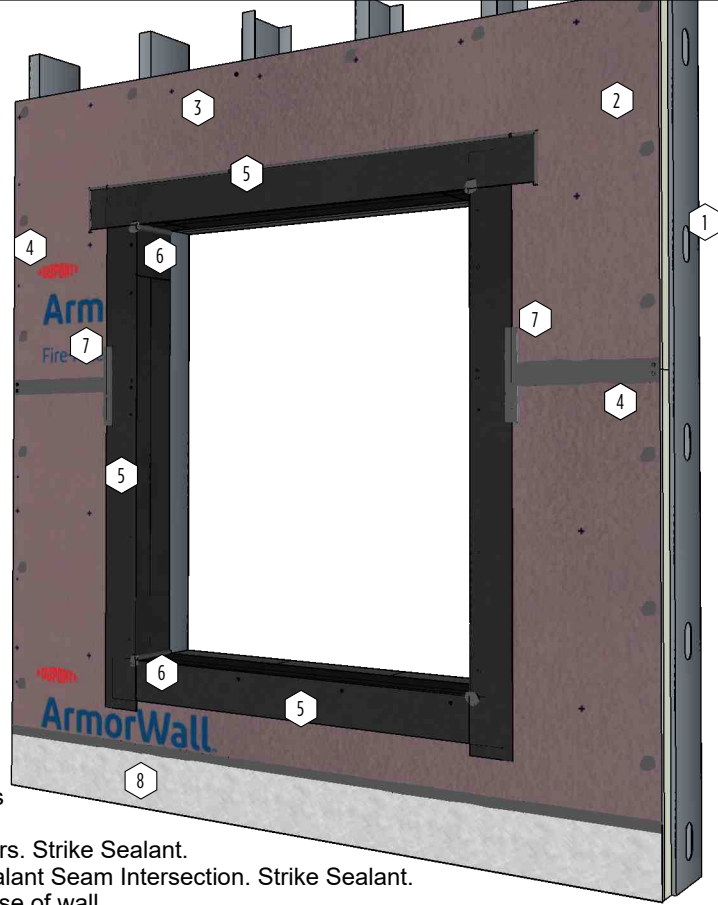
## DuPont™ DuraGard™ WD Self-Adhered Flashing Installation

### NOTES

DuraGard™ WD Self-Adhered Flashing Tape installation method may be used on all four rough opening detailing methods that are approved with ArmorWall™ panels as outlined on page 38 of this installation guideline.

### INSTALLER REQUIREMENT

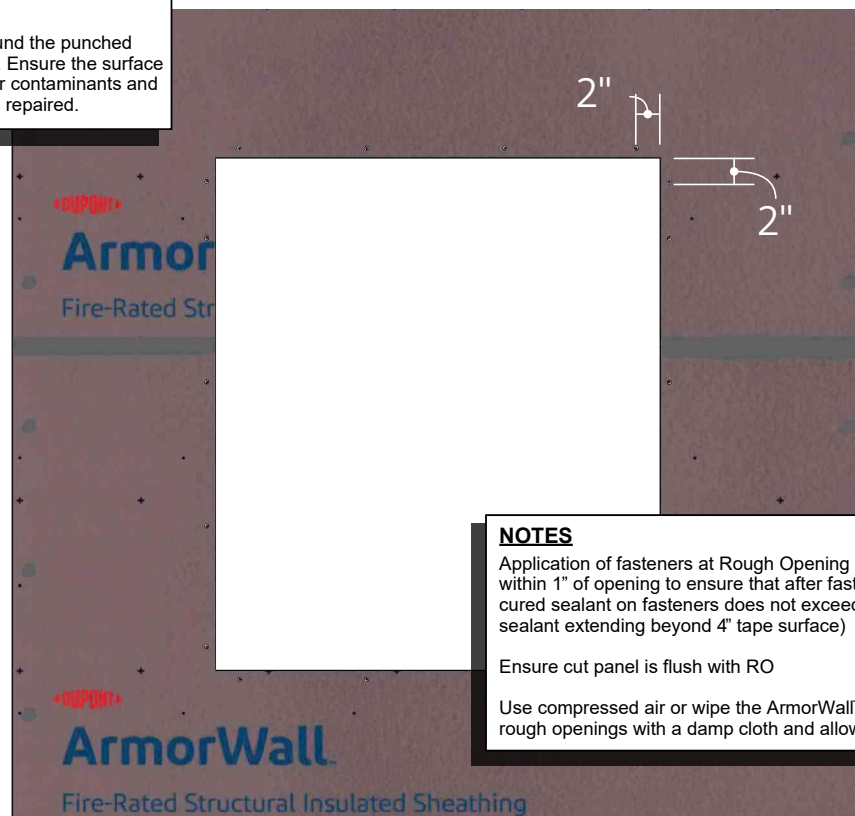
DuPont requires the use of DuPont™ ArmorSeal Trowel Grade Sealant for rough opening sill details where fasteners will penetrate the rough opening sill flashing. Please refer to Page 37 for detailed installation instructions for ArmorSeal Trowel Grade sealant.



- 1: Steel Stud Frame
- 2: ArmorWall™ Plus (R10, R15, or R21 Standard)
- 3: #14-13 Self Tapping Screw
- 4: DuPont™ LiquidArmor™ FJ at all Seams and Fasteners
- 5: DuPont™ DuraGard™ WD
- 6: Bead of LiquidArmor™ FJ Sealant on All Interior Corners. Strike Sealant.
- 7: Bead of LiquidArmor™ FJ Sealant 3" Beyond Tape/Sealant Seam Intersection. Strike Sealant.
- 8: DuPont™ DuraGard™ CM Through Wall Flashing at base of wall.

### PREPARATION

Ensure system fasteners and sealants around the punched opening are present and installed correctly. Ensure the surface of each ArmorWall™ panel is free of dust or contaminants and any construction related surface damage is repaired.



### NOTES

Application of fasteners at Rough Opening (RO) perimeter should be within 1" of opening to ensure that after fastener sealant is applied, the cured sealant on fasteners does not exceed 3" from opening (preventing sealant extending beyond 4" tape surface)

Ensure cut panel is flush with RO

Use compressed air or wipe the ArmorWall™ Panel face and studs at rough openings with a damp cloth and allow to dry.



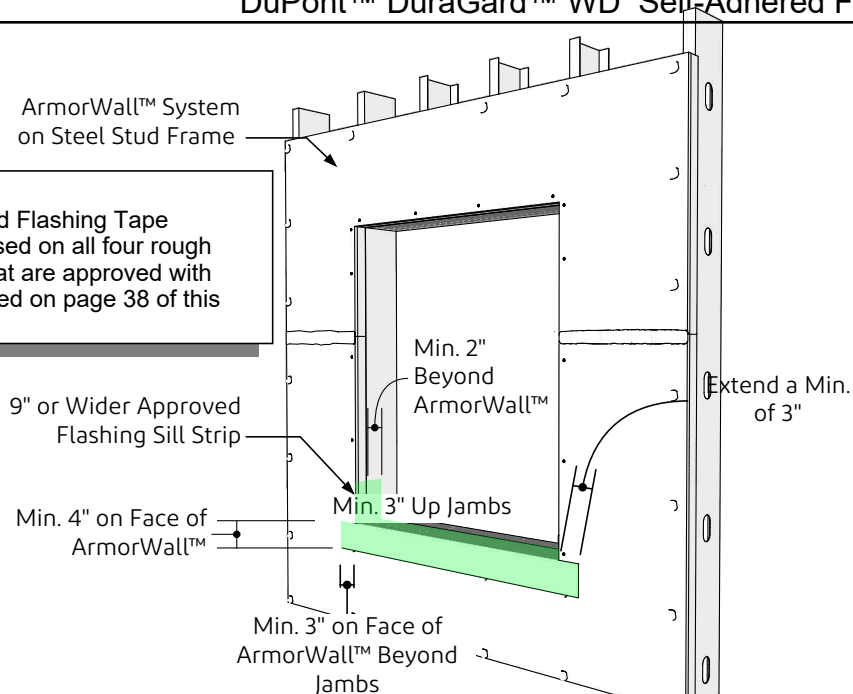


# ArmorWall™ System Installation Manual

## DuPont™ DuraGard™ WD Self-Adhered Flashing Installation: Sill

### NOTES

DuraGard™ WD Self-Adhered Flashing Tape installation method may be used on all four rough opening detailing methods that are approved with ArmorWall™ panels as outlined on page 38 of this installation guideline.

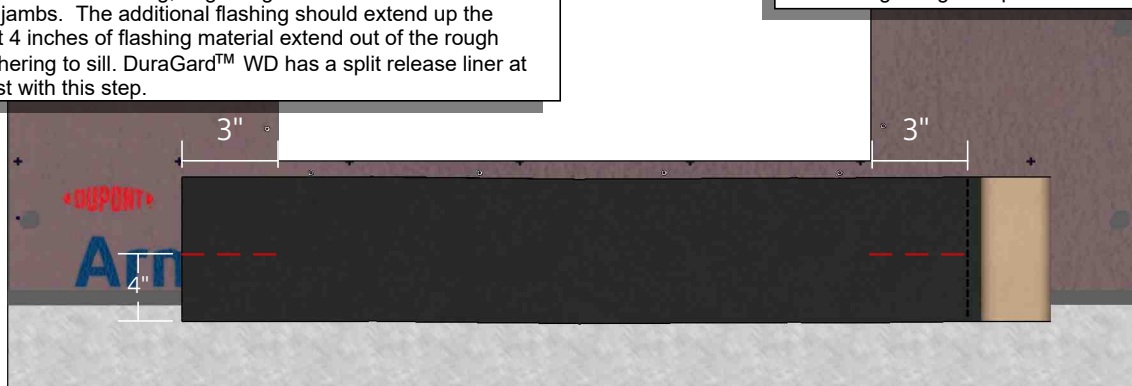


### SILL INSTALLATION

Cut a piece of flashing tape 6 inches greater than the measured width of the rough opening. Install the sill flashing, beginning from the centerline of the sill and across to both jambs. The additional flashing should extend up the jambs. Ensure that 4 inches of flashing material extend out of the rough opening prior to adhering to sill. DuraGard™ WD has a split release liner at the 4" mark to assist with this step.

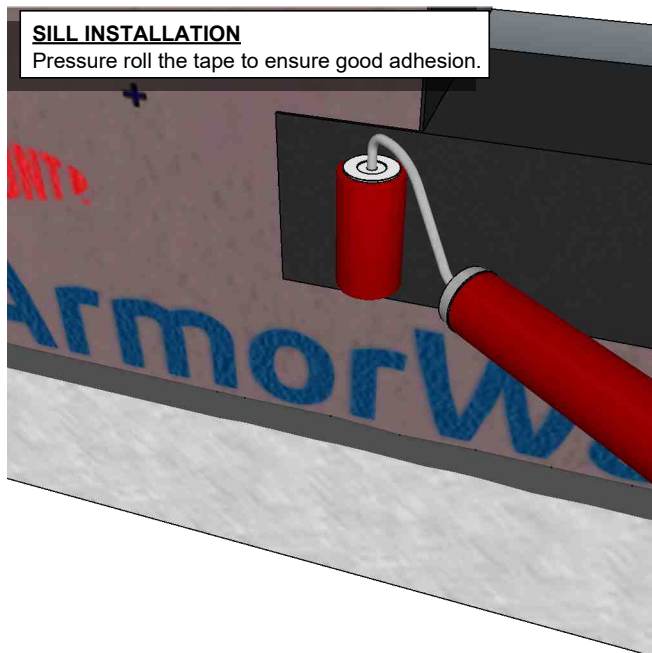
### SILL INSTALLATION

Cut a 3" long horizontal slit at each edge of the sill flashing along the split release liner.



### SILL INSTALLATION

Pressure roll the tape to ensure good adhesion.



### SILL INSTALLATION

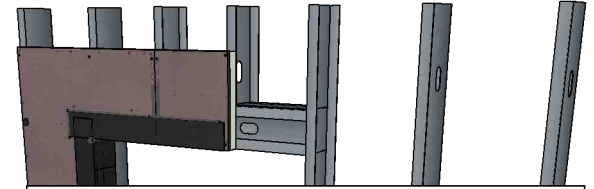
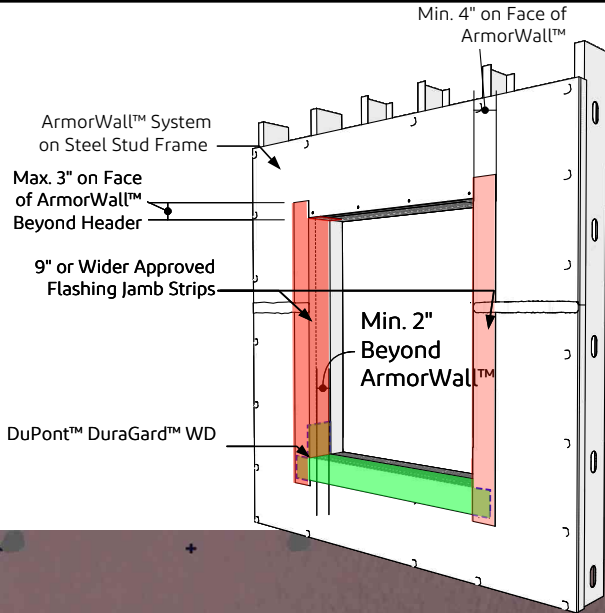
Sill installation complete.





# ArmorWall™ System Installation Manual

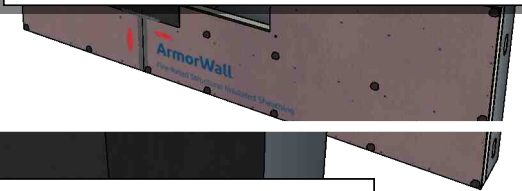
DuPont™ DuraGard™ WD Self-Adhered Flashing Installation: **Jamb**



## **JAMB INSTALLATION**

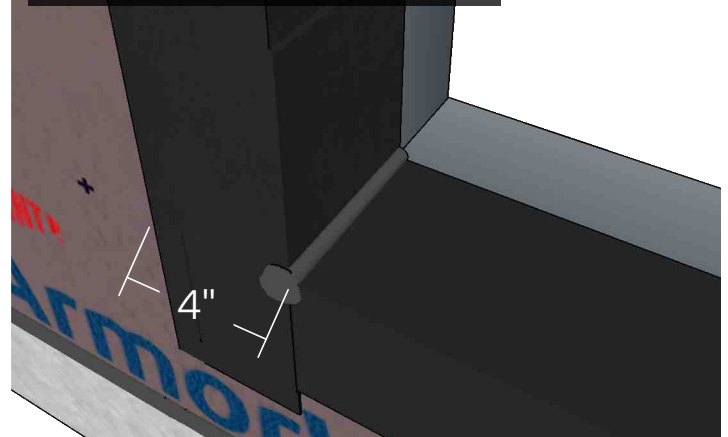
### **Jamb Installation**

Cut a 3 inch vertical slit from the top that terminates at the jamb to head corner. Cut a horizontal slit at the sill height that terminates at the jamb to sill corner. Fold the flap into the rough opening. Repeat steps on opposite rough opening jamb.



## **JAMB INSTALLATION**

Use a pressure roller to help achieve best adhesion to all surfaces. Attempt to install free from wrinkles working the laps as much as possible.



## **JAMB INSTALLATION**

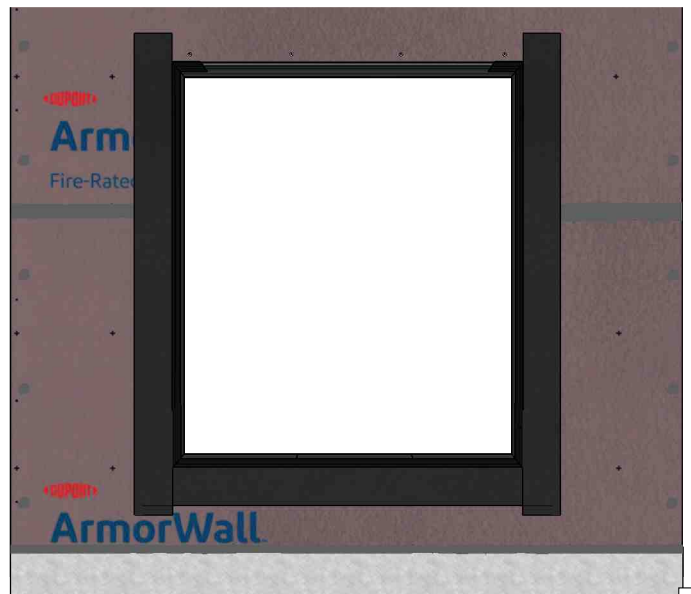
Cut a 3" long vertical slit at the header edge of the jamb flashing along the split release

## **JAMB INSTALLATION**

Measure jamb height and add 9" of additional material. Position flashing 3" above top of rough opening, with a minimum of 4" adhered to the exterior face of the ArmorWall™ panels.

## **JAMB INSTALLATION**

Cut out a 4" long horizontal, 6" vertical section at the sill edge of the jamb flashing along the split release liner.

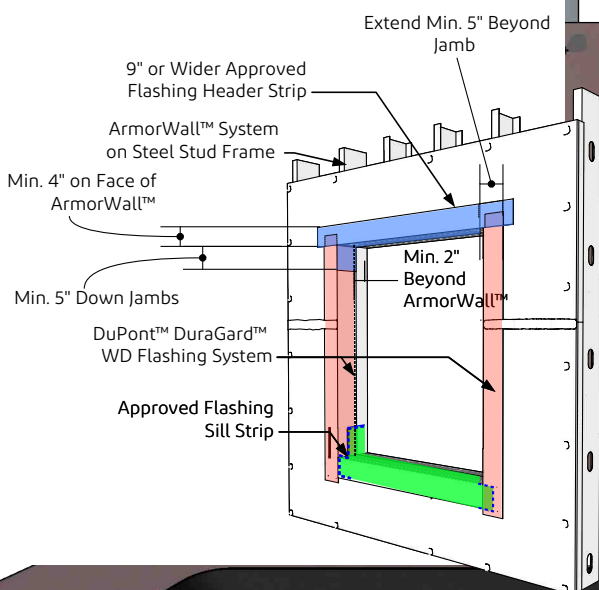






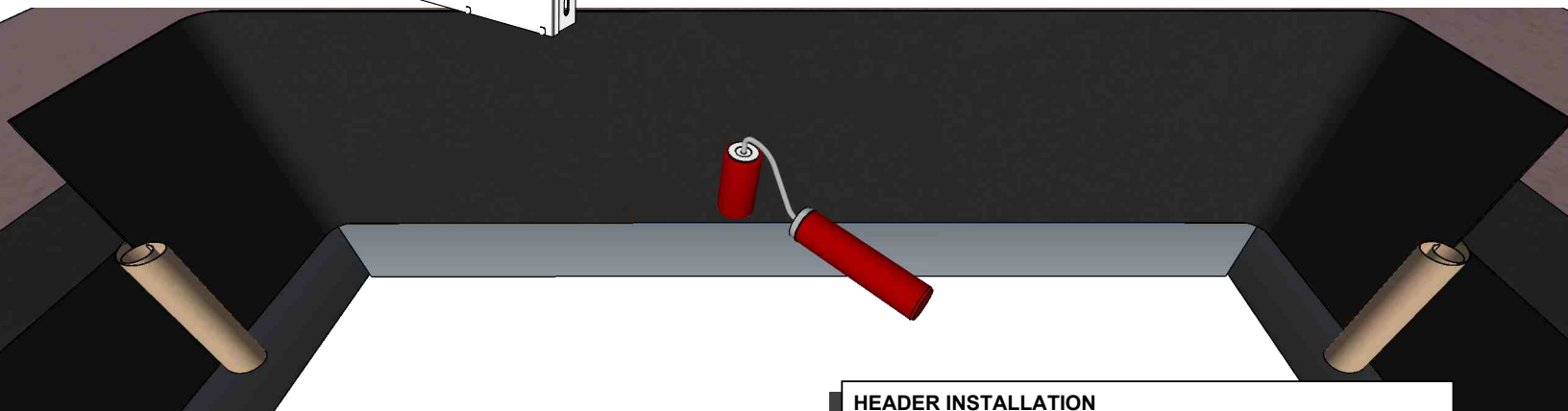
# ArmorWall™ System Installation Manual

## DuPont™ DuraGard™ WD Self-Adhered Flashing Installation: Header



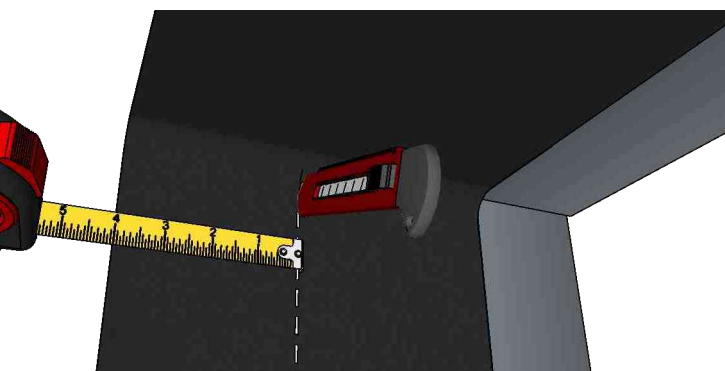
### HEADER INSTALLATION

Cut a piece of flashing tape a minimum of 10 inches greater than the measured width of the rough opening. Install flashing tape in a way that ensures the jamb flashing tape is overlapped a minimum of 1 inch in all directions.



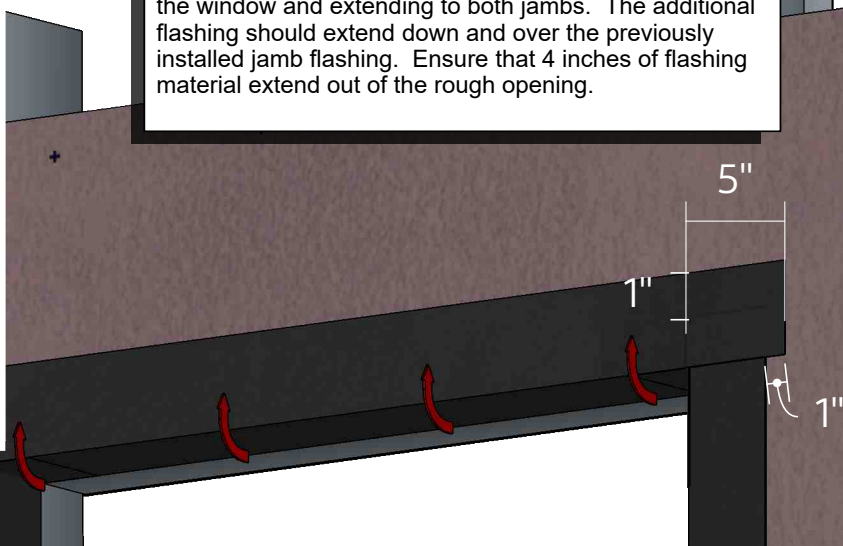
### HEADER INSTALLATION

Install the head flashing, beginning from the centerline of the window and extending to both jambs. The additional flashing should extend down and over the previously installed jamb flashing. Ensure that 4 inches of flashing material extend out of the rough opening.



### HEADER INSTALLATION

Make a vertical cut on both sides of the header flashing, starting at the exterior jamb to head corner, as shown in the picture. Installer should ensure the installed jamb flashing is not cut or damaged during this step.



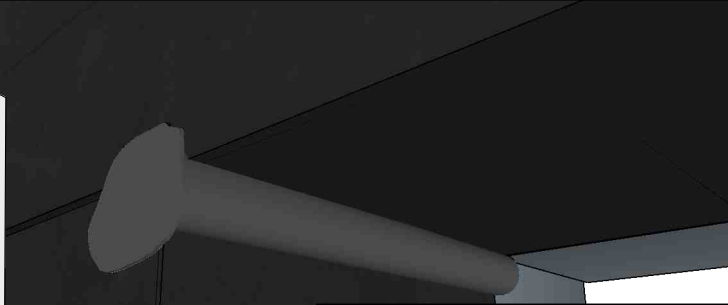
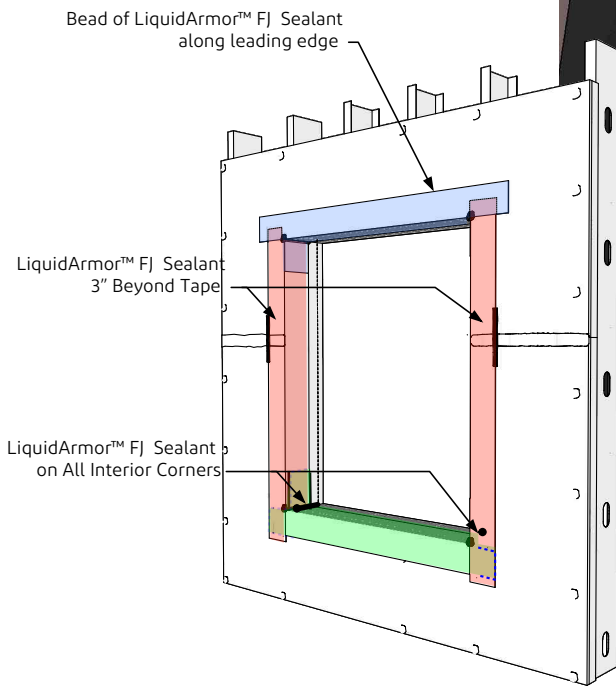
### HEADER INSTALLATION

Fold the resulting header flap up and onto the upper face of the ArmorWall™ panel. Ensure the header flashing overlaps the jamb flashing tape by a minimum of 1 inch in all directions. Use a pressure roller to improve adhesion to all substrates.



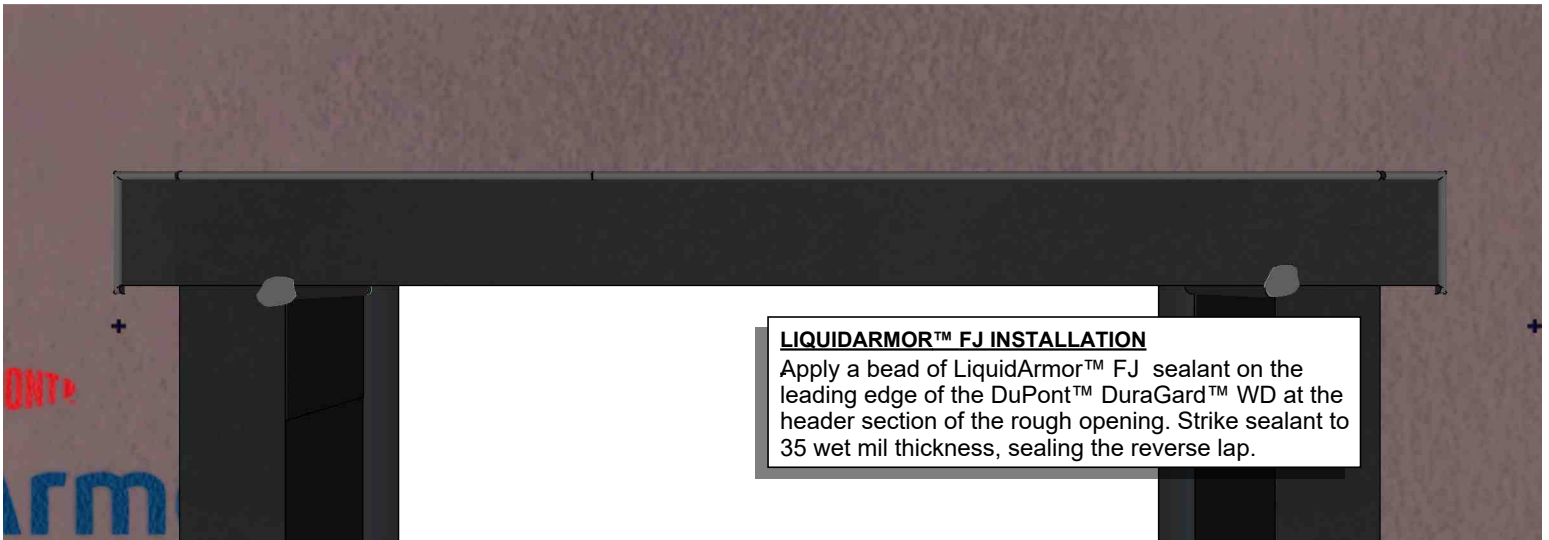
# ArmorWall™ System Installation Manual

## DuPont™ DuraGard™ WD Self-Adhered Flashing Installation: **LiquidArmor™ FJ**



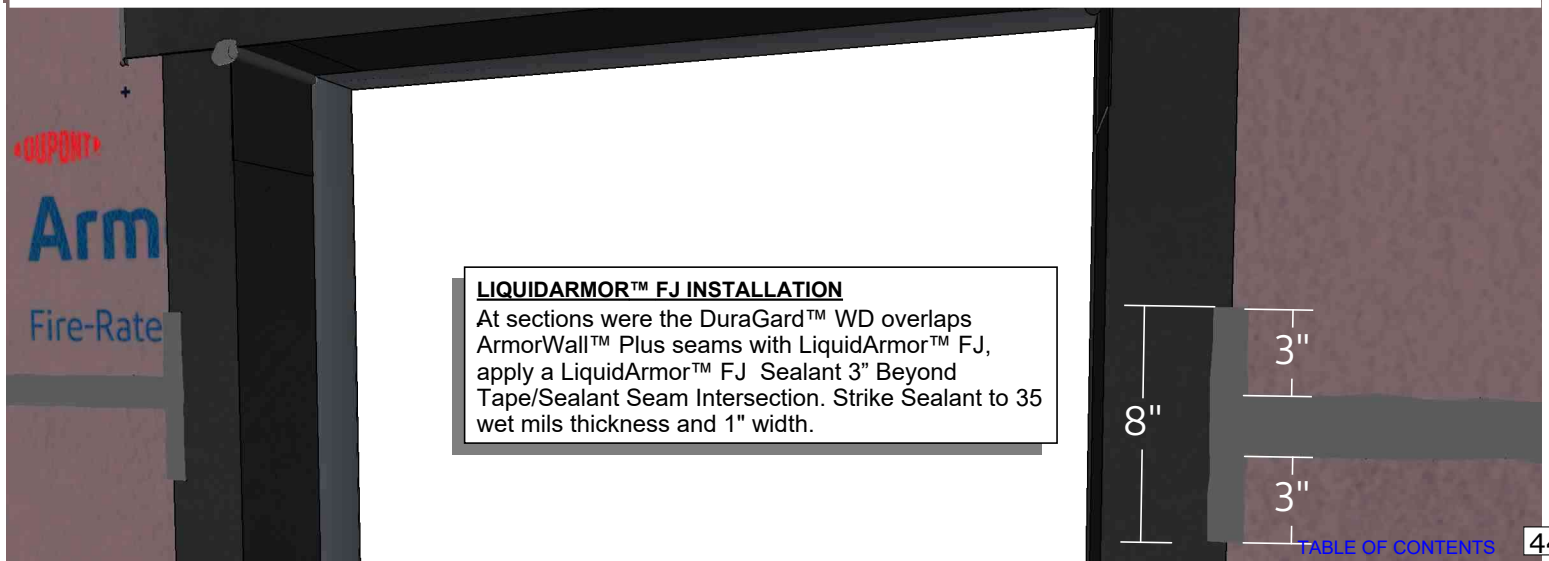
### **LIQUIDARMOR™ FJ INSTALLATION**

Apply a bead of LiquidArmor™ FJ sealant on all interior corners transitions at the returns of the rough opening. Strike sealant to 35 wet mil thickness. Ensure LiquidArmor™ FJ extends onto the exterior face and covers the exterior flashing overlaps in all four corners.



### **LIQUIDARMOR™ FJ INSTALLATION**

Apply a bead of LiquidArmor™ FJ sealant on the leading edge of the DuPont™ DuraGard™ WD at the header section of the rough opening. Strike sealant to 35 wet mil thickness, sealing the reverse lap.



### **LIQUIDARMOR™ FJ INSTALLATION**

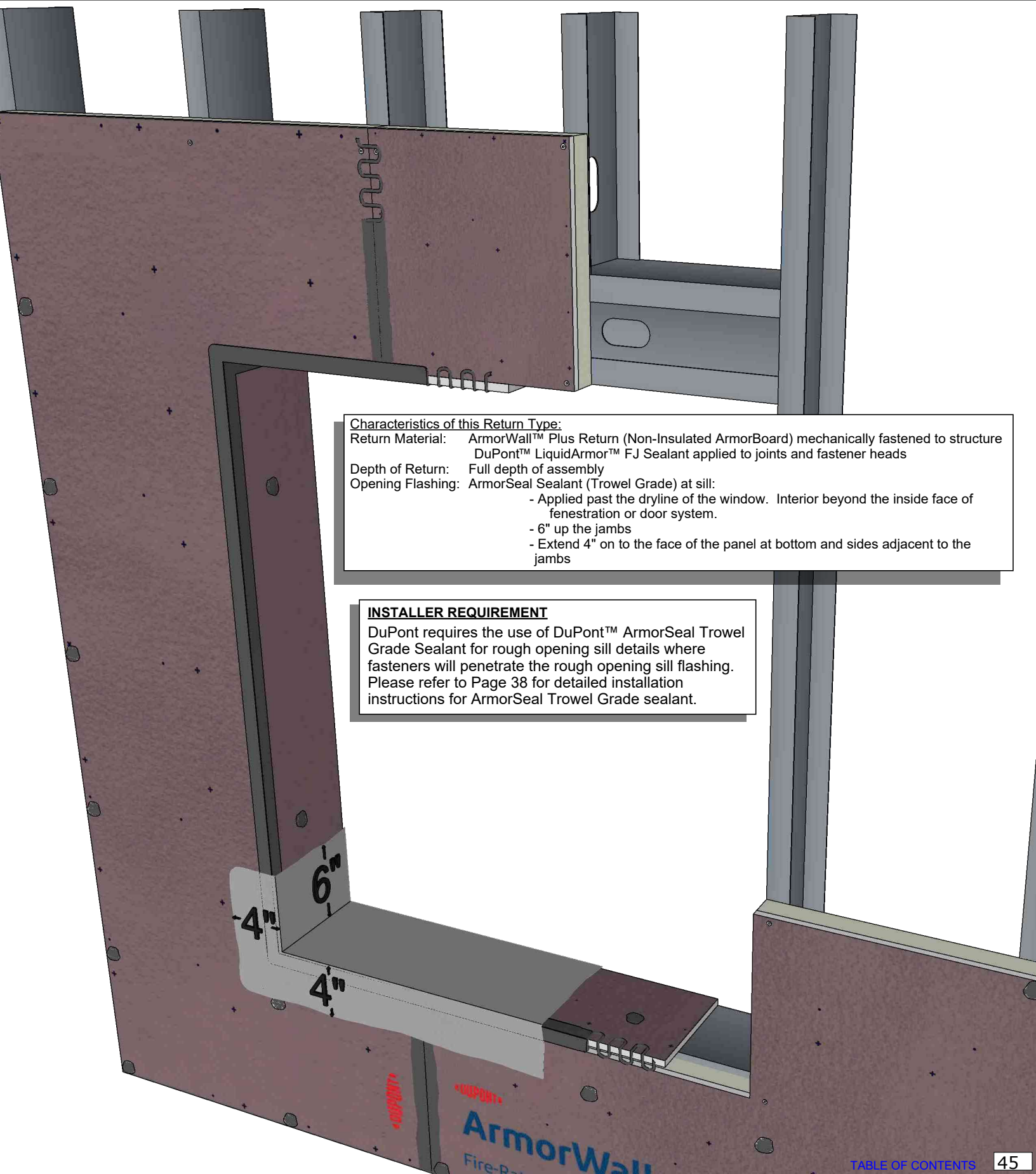
At sections where the DuraGard™ WD overlaps ArmorWall™ Plus seams with LiquidArmor™ FJ, apply a LiquidArmor™ FJ Sealant 3" Beyond Tape/Sealant Seam Intersection. Strike Sealant to 35 wet mils thickness and 1" width.





# ArmorWall™ System Installation Manual

## Types of Returns: Full Depth Return with Liquid Sill Flashing

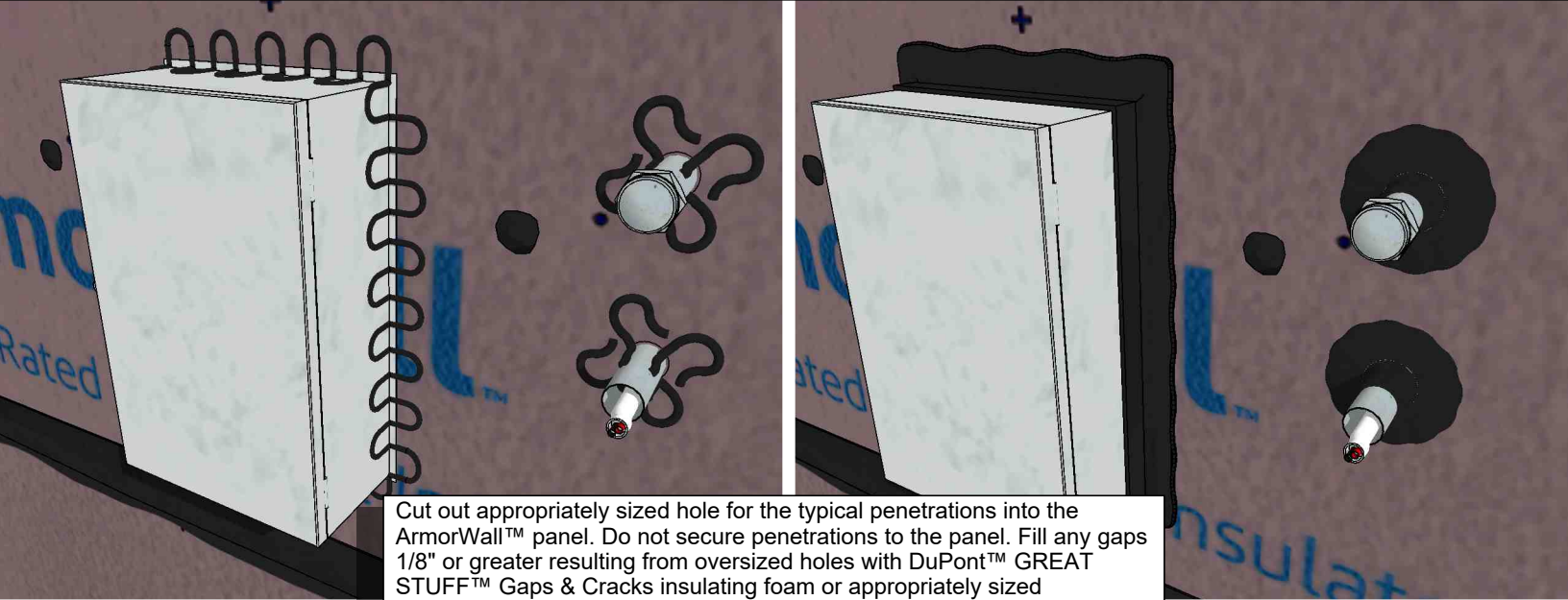


### Characteristics of this Return Type:

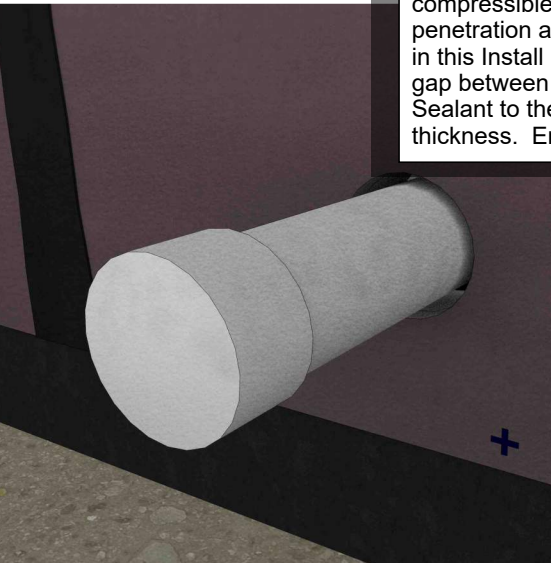
- Return Material: ArmorWall™ Plus Return (Non-Insulated ArmorBoard) mechanically fastened to structure  
DuPont™ LiquidArmor™ FJ Sealant applied to joints and fastener heads
- Depth of Return: Full depth of assembly
- Opening Flashing: ArmorSeal Sealant (Trowel Grade) at sill:
- Applied past the dryline of the window. Interior beyond the inside face of fenestration or door system.
  - 6" up the jambs
  - Extend 4" on to the face of the panel at bottom and sides adjacent to the jambs

### INSTALLER REQUIREMENT

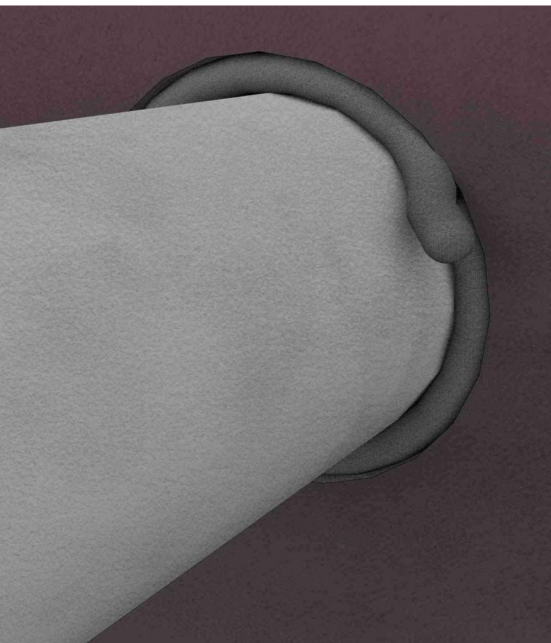
DuPont requires the use of DuPont™ ArmorSeal Trowel Grade Sealant for rough opening sill details where fasteners will penetrate the rough opening sill flashing. Please refer to Page 38 for detailed installation instructions for ArmorSeal Trowel Grade sealant.



Cut out appropriately sized hole for the typical penetrations into the ArmorWall™ panel. Do not secure penetrations to the panel. Fill any gaps 1/8" or greater resulting from oversized holes with DuPont™ GREAT STUFF™ Gaps & Cracks insulating foam or appropriately sized compressible backer rod. Any gaps larger than 3/4" around the penetration are required to meet the 3/4" joint detail repair method found in this Install Guide or replace the section of ArmorWall™ to reduce the gap between panel and penetration. Apply DuPont™ LiquidArmor™ FJ Sealant to the penetration at the hole and strike to achieve a 35 wet mil thickness. Ensure the wet sealant is free from voids or pinholes.

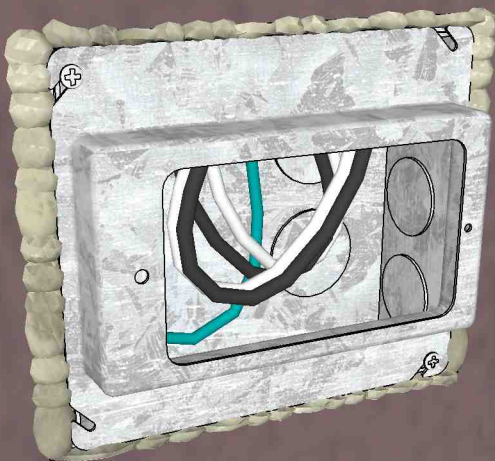


Sealant should extend 1" on both the penetration surface and the face of the panel.



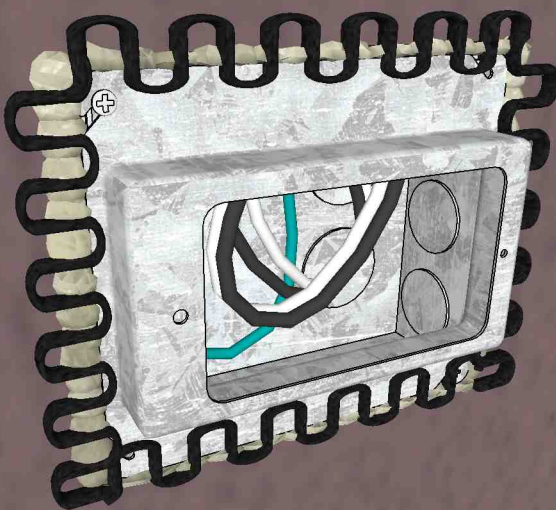


Cut out appropriately sized hole for the typical exterior grade weatherproofed electrical box into the ArmorWall™ panel. Secure box to the structure. Fill any voids with DuPont™ GREAT STUFF™ Gaps & Cracks insulating foam. Any gaps larger than 3/4" around the penetration are required to meet the 3/4" joint detail repair method found in this Install Guide or replace the section of ArmorWall™ to reduce the gap between panel and penetration.

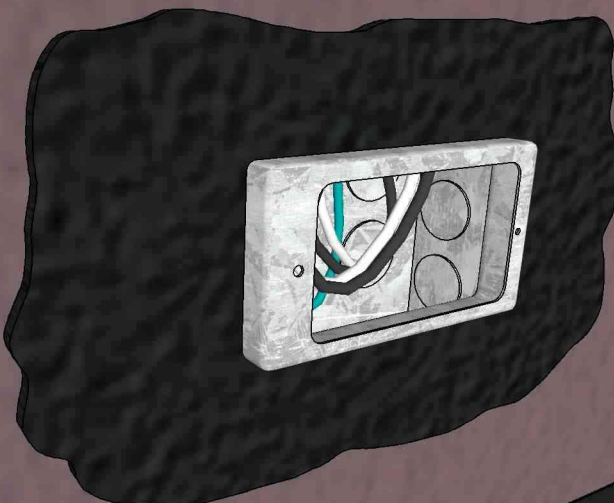


### Liquid Option

Apply DuPont™ LiquidArmor™ FJ Sealant to the penetration at the hole and strike to achieve a 35 wet mil thickness. Ensure the wet sealant is free from voids or pinholes.



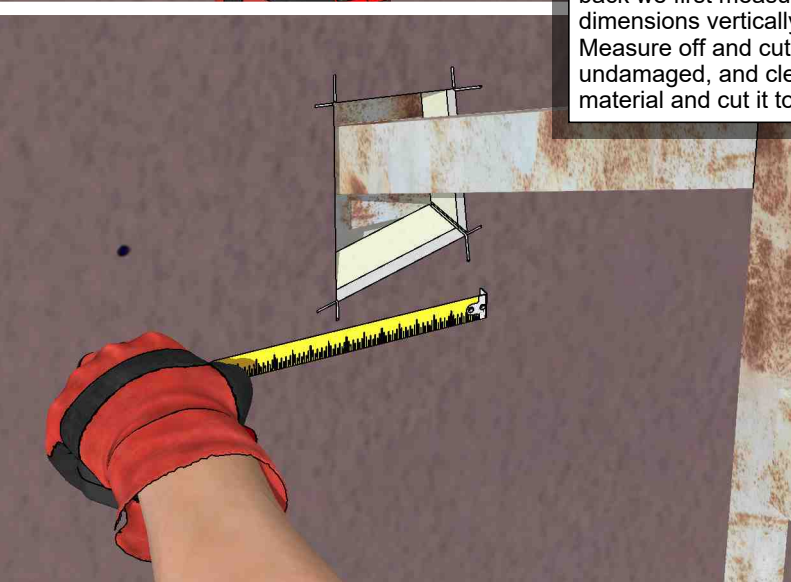
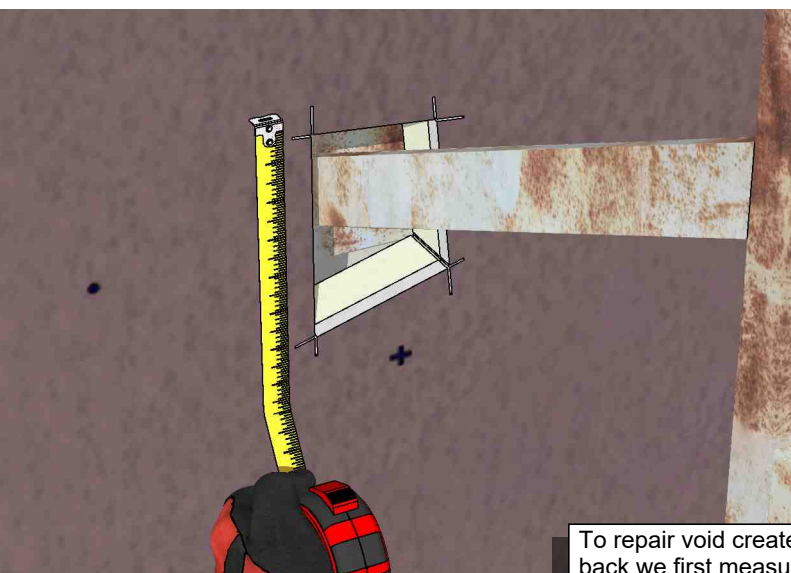
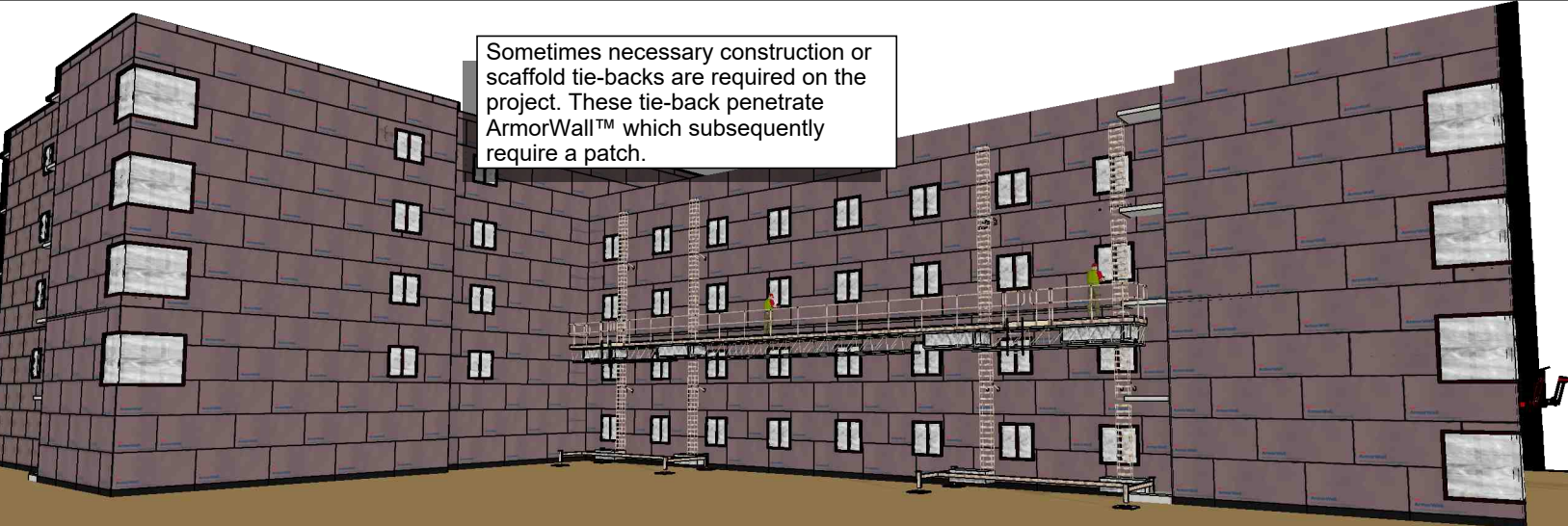
LiquidArmor™ FJ Sealant should extend 1" on both the penetration surface and the face of the ArmorWall™ panel.



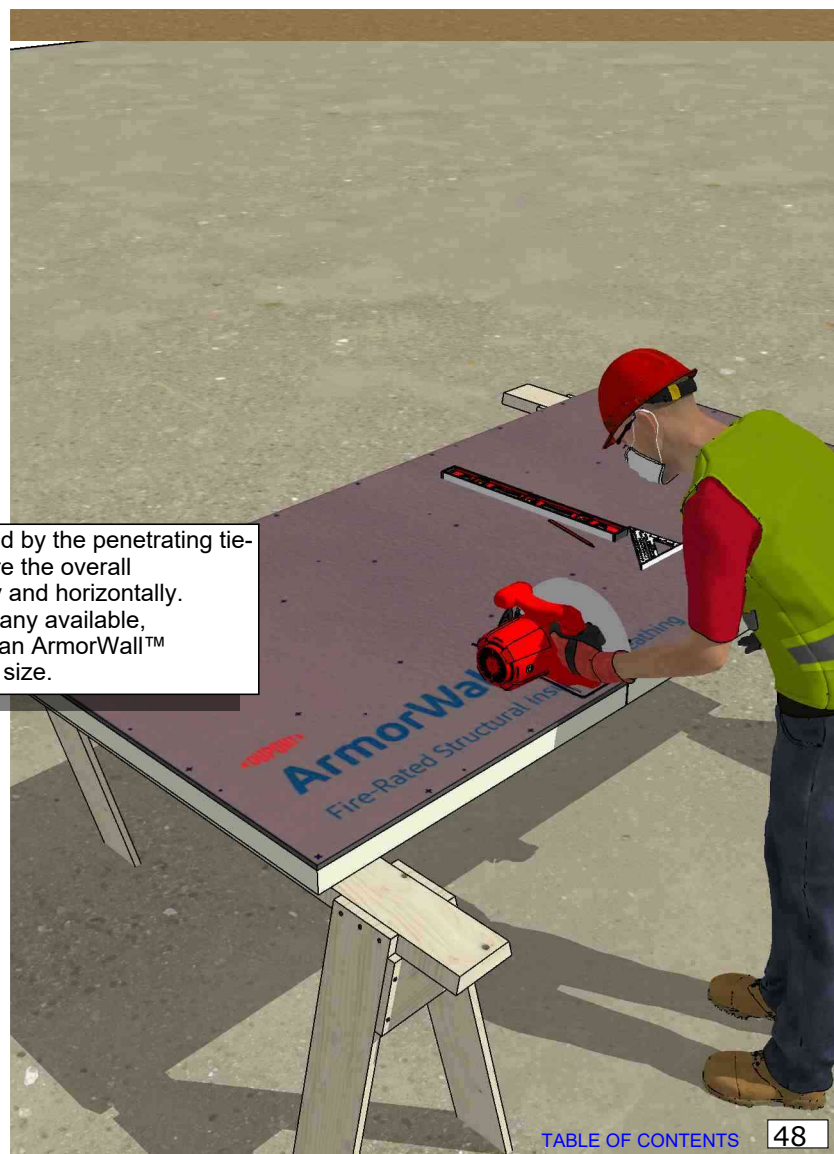


# ArmorWall™ System Installation Manual

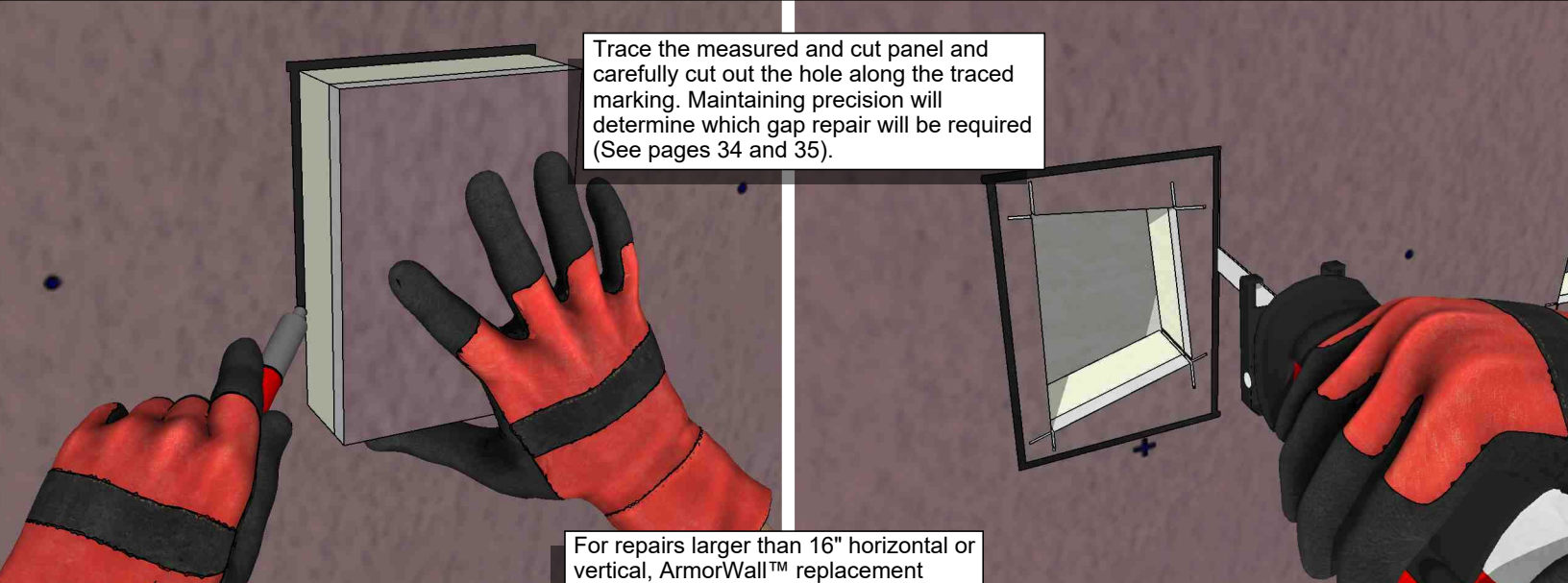
## Typical Penetrations with ArmorWall™ Block



To repair void created by the penetrating tie-back we first measure the overall dimensions vertically and horizontally. Measure off and cut any available, undamaged, and clean ArmorWall™ material and cut it to size.

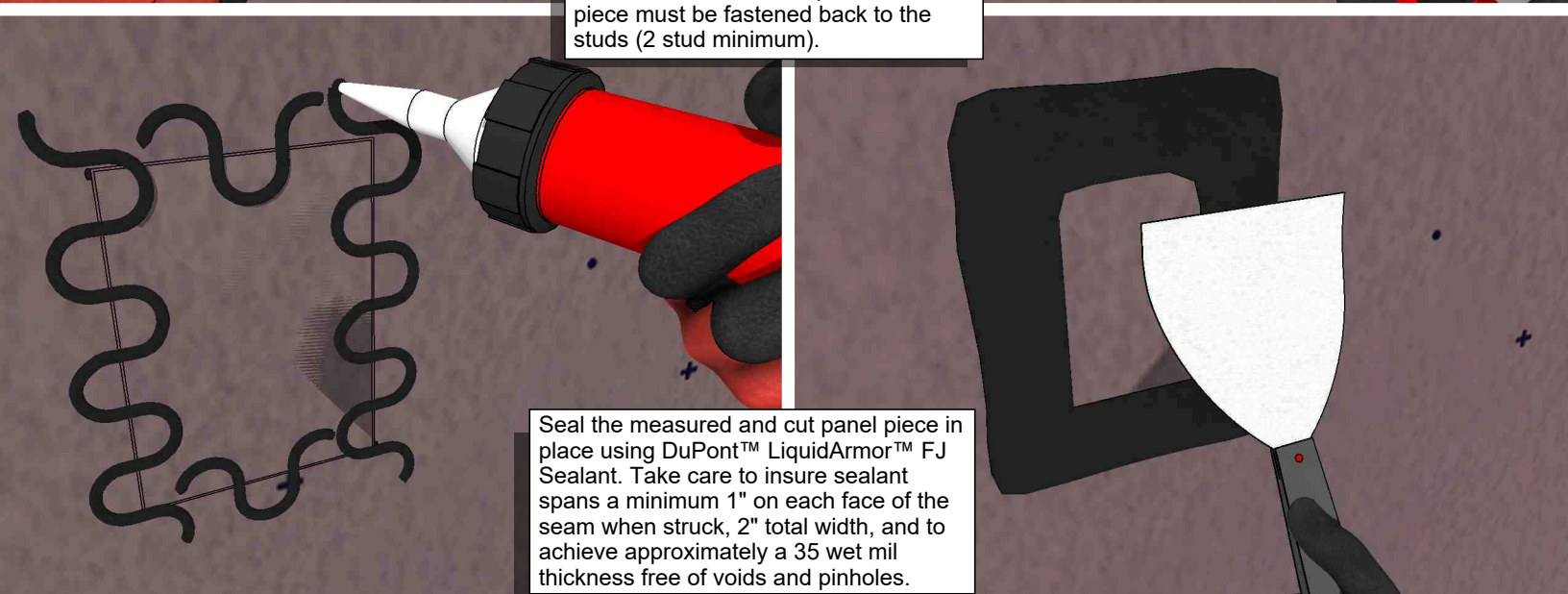




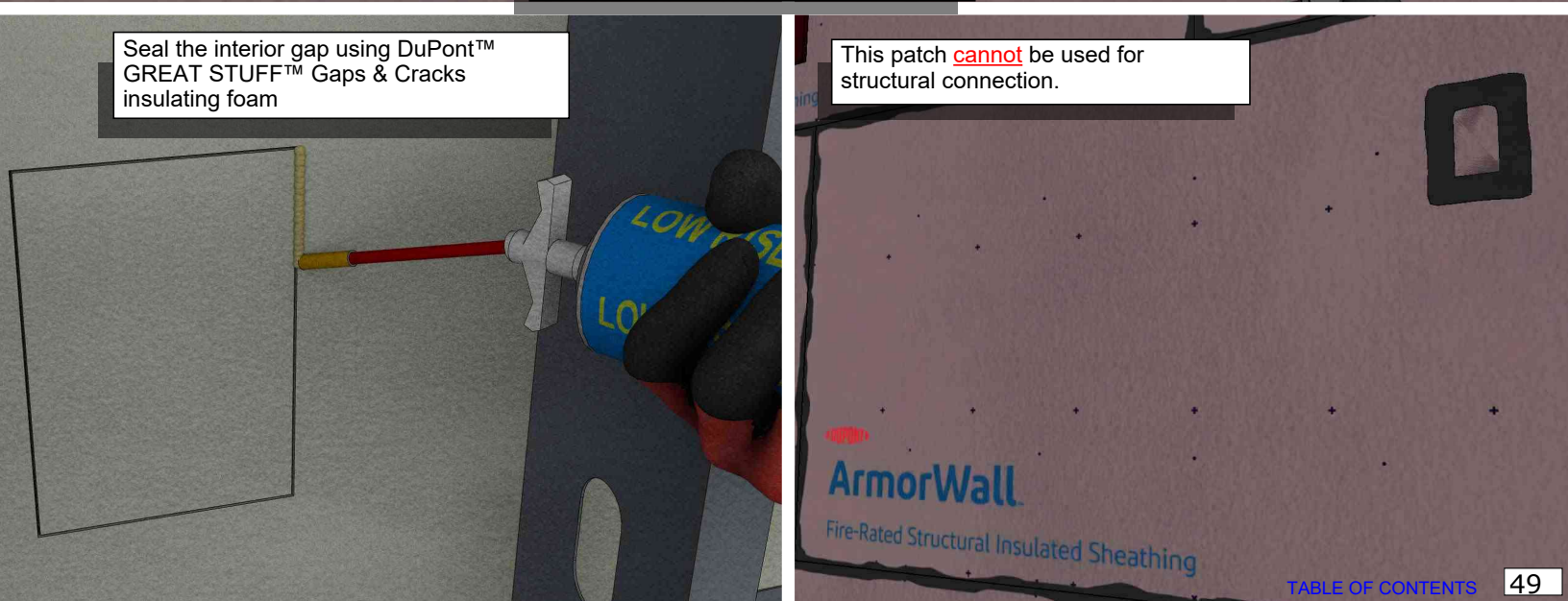


Trace the measured and cut panel and carefully cut out the hole along the traced marking. Maintaining precision will determine which gap repair will be required (See pages 34 and 35).

For repairs larger than 16" horizontal or vertical, ArmorWall™ replacement piece must be fastened back to the studs (2 stud minimum).



Seal the measured and cut panel piece in place using DuPont™ LiquidArmor™ FJ Sealant. Take care to insure sealant spans a minimum 1" on each face of the seam when struck, 2" total width, and to achieve approximately a 35 wet mil thickness free of voids and pinholes.



Seal the interior gap using DuPont™ GREAT STUFF™ Gaps & Cracks insulating foam

This patch **cannot** be used for structural connection.



Always follow cladding manufacturer installation instructions.

Cladding designation:

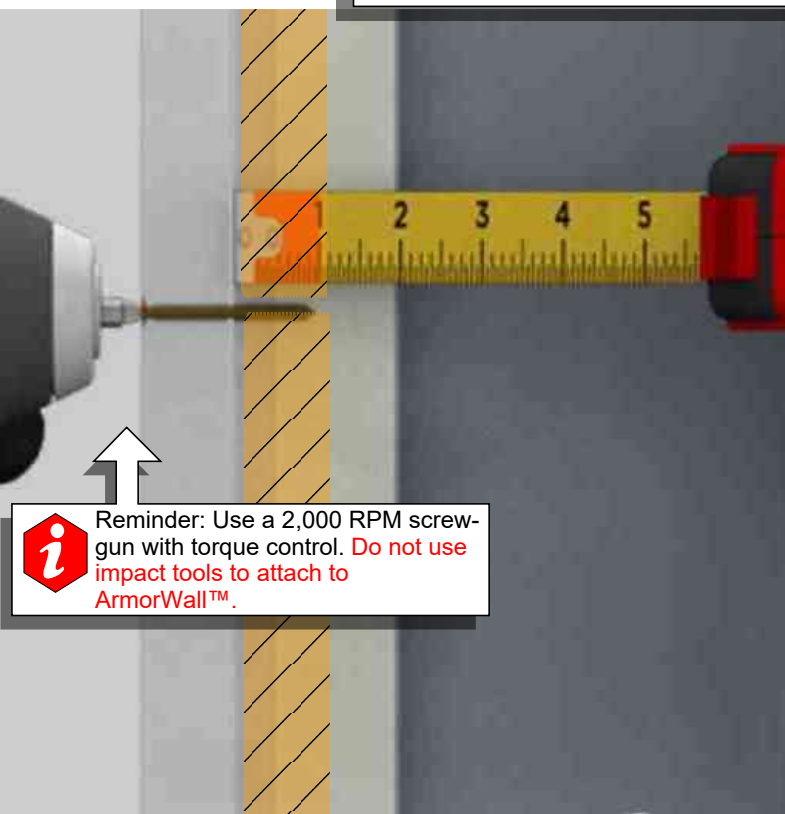
Each attachment screw must penetrate the ArmorWall™ panel a minimum of 1" after securing claddings, clips, standoffs, and all other attachments. Read the ArmorWall™ panel data sheets for pullout tolerances.

#10-9 pancake head low profile or and/or #10-9 ultra low profile head fasteners are approved for cladding attachment to ArmorWall™.

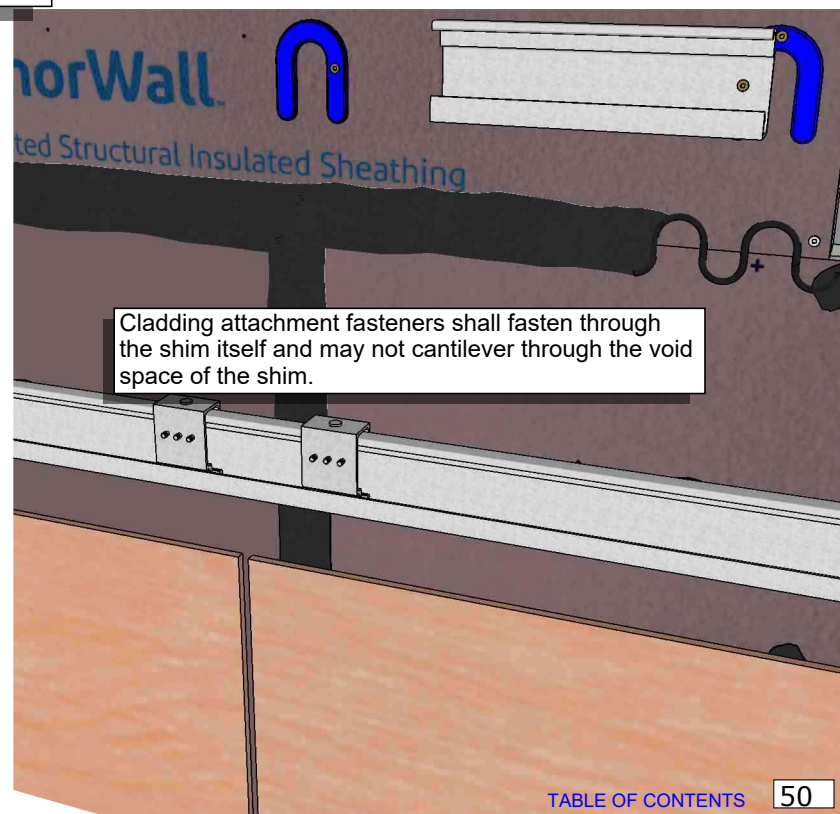
Do not use nails to attach cladding to ArmorWall™.

Do not use drywall screws to attach cladding to ArmorWall™.

Do not use self tapping screws to attach cladding to ArmorWall™.



Reminder: Use a 2,000 RPM screw-gun with torque control. **Do not use impact tools to attach to ArmorWall™.**



Cladding attachment fasteners shall fasten through the shim itself and may not cantilever through the void space of the shim.





# ArmorWall™ System Installation Manual

Notes

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For specific inquiries regarding installation of DuPont™ ArmorWall™ Systems, please contact DuPont Customer Service.

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