

invisiwrap® uv

hydroflash® uv+

batten uv

OPEN JOINT CLADDING WITH INVISIWRAP UV

installation instructions

version 10152026

OPEN JOINT CLADDING INSTALLATION INSTRUCTIONS

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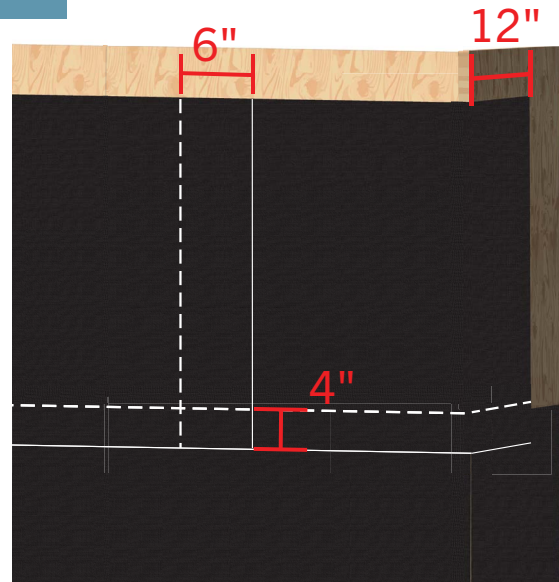
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REVIEW PRIOR TO INSTALLATION OF INVISIWRAP® UV

PREINSTALLATION CONSIDERATIONS

- Unroll InvisiWrap UV with shiny side facing out and fasten to sheathing with nails, staples, or cap fasteners. Fasten to sheathing with staples for product warranty coverage, or cap fasteners to comply with system warranty.
- Fasteners should provide a minimum of 1/2 in penetration into the nail base and be spaced approximately 12 to 18 inches apart along the horizontal and vertical laps. Fasten every 3 sq ft elsewhere.
- InvisiWrap UV should be installed shingle lap fashion (ie. begin installation at the base of the wall assembly).
- Extend the WRB a minimum 2 inches over the sill plate.
- Overlap all horizontal seams by at least 4 inches, all vertical seams by at least 6 inches, and all inside and outside corners by 12 inches.
- Be sure that the WRB installation and flashing provide positive drainage to the exterior of the assembly.
- Do not let WRB be exposed to sunlight in excess of 365 days prior to the installation of cladding.
- Flash wall penetrations (such as outlets, exhaust vents, etc.) with proper shingling technique to maintain drainage.
- Flash windows and doors according to building code requirements. Surface should be clean and dry. All self-adhered flashing must be adhered using a hand applicator. HydroFlash should be stored inside or in conditioned spaces prior to installing in cold temperatures.
- Cap fasteners and the use of HydroFlash UV+ to intergrate windows and doors to the WRB are required to qualify for system warranty coverage.
- Install windows and doors per manufacturer's installation instructions.



OPEN JOINT CLADDING INSTALLATION INSTRUCTIONS

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REVIEW PRIOR TO INSTALLATION OF OPEN JOINT CLADDINGS

When InvisiWrap UV is used in an Open Joint Cladding (OJC) application, the following are required for the system warranty:

- Cap fasteners are used to attach InvisiWrap UV per fastening schedule, and are required for warranty coverage
- All seams are taped using HydroFlash UV+ with a minimum width of 2.3 inches or HydroTape DS
- All penetrations including mechanicals, windows, and doors are properly flashed using HydroFlash UV+ flashing tape (when used as the primary water control layer)

When a minimum ¼ inch rainscreen is installed between InvisiWrap UV and the cladding, open joint cladding boards can be installed up to a maximum of a 1 inch joint.

- If the cladding is installed directly to InvisiWrap UV, the joints between cladding boards must not be greater than a ¼ inch joint

InvisiWrap UV is engineered to resist the ultraviolet radiation (UV) from the sun in an OJC application and complies with all ASTM standards (AC 38) to be used as the primary water and air control layer (weather resistive barrier or WRB), when detailed in accordance with published installation guidelines. InvisiWrap can also be installed over a properly detailed WRB and act exclusively as the UV resistant control layer.

Identify all control layers in the building envelope (UV, Water, Air, Vapor, and Thermal) and verify continuity at all penetrations (windows, doors, outlets, mechanicals, etc.) and transitions (foundation to framing, wall to ceiling, wall to roof, etc.).

InvisiWrap is always the primary UV CONTROL LAYER for OJC. In most applications, it is also the primary water control layer when properly integrated with all penetrations. InvisiWrap can be used as the primary air control layer when carefully detailed, but may not be the most efficient location for an air control layer.

Based on building science and best installation practices, the following locations are more efficient when considering an air control layer:

- Smart interior air/vapor membrane installed behind interior drywall
- Interior drywall with joints and transitions sealed
- Spray foam applied directly to sheathing in the framed cavity
- Taping of exterior sheathing seams or using pre-weatherized sheathing systems
- Taping of exterior continuous insulation seams and transitions

Given the extreme conditions in an OJC assembly, more care is needed in design and application compared to a conventional WRB in a closed cladding assembly. Plan the layout of fastening details and product overlaps to reduce number of penetrations. InvisiWrap can be seen in between the cladding joints and should be installed without wrinkles and without visible cap fasteners. All cap fasteners should be concealed behind batten strips, overlaps, and/or HydroFlash UV+ flashing tape.

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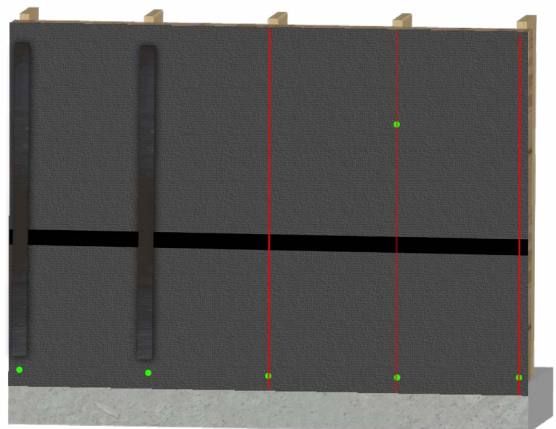
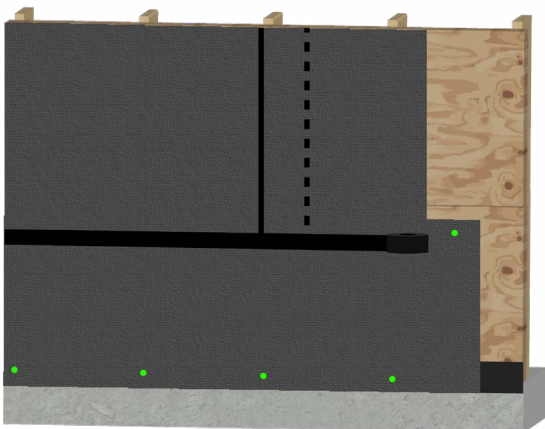
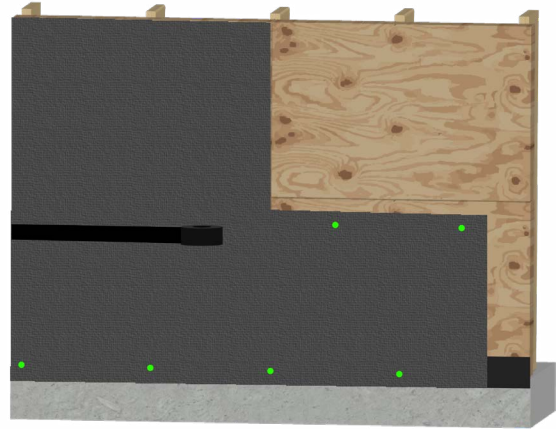
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OPEN JOINT INSTALLATION WALL ASSEMBLY

CAP FASTENER PLACEMENT & INVISIWRAP UV INSTALLATION

- In an open joint cladding application, it is integral to limit the use of fastener penetrations. This helps to strategically place the fasteners so that they are not seen and are protected from the weather.
- The first fasteners should be applied to the top of roll, which will be covered by overlapping the next row of InvisiWrap UV. Transfer stud locations and chalk control lines for fastener placement.
- When fastening the first course of InvisiWrap UV, apply cap fasteners 2 inches away from the top edge **BETWEEN STUD LOCATIONS**.
- When fastening the bottom of InvisiWrap UV, add cap fasteners every 16 inches on-center, at the stud locations.
- Cap fasteners installed “in the field” should be limited and installed every 32” inches on-center. **THIS IS ONE FASTENER EVERY OTHER STUD LOCATION.** (see image below)
- Cap fasteners installed “in the field” every 32 inches on-center can be covered with a piece of HydroFlash UV+ for additional protection. These fasteners should be strategically positioned so that they are behind the furring strip/Batten UV when installed.
- Vertical seams should be laid out to fall behind Batten UV/furring strips at the stud locations.
 - Cap fasteners must be installed 2 inches from the vertical edge. The next layer of InvisiWrap should overlap the first layer by 6 inches vertically, covering the first layer of cap fasteners.
 - Fasten the second layer with cap fasteners so that they are positioned on the stud locations and cover with seam tape.
- Using HydroFlash UV+ 2.3 inch seam tape, apply over vertical seam and exposed cap fasteners.



OPEN JOINT CLADDING INSTALLATION INSTRUCTIONS

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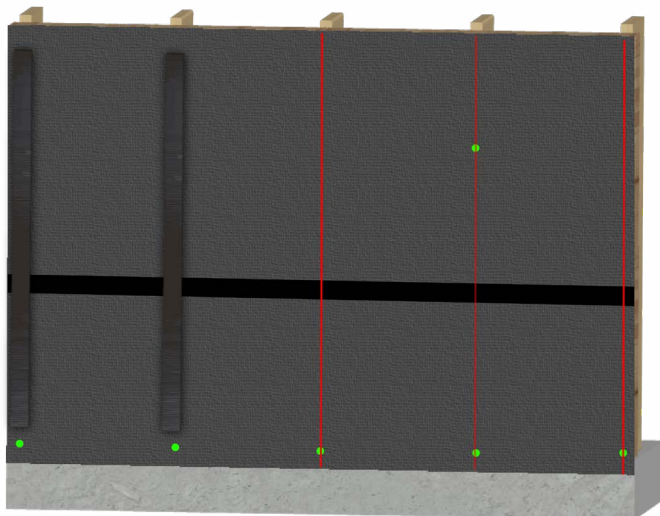
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OPEN JOINT INSTALLATION WALL ASSEMBLY

BATTEN UV INSTALLATION

- Apply vertical chalk lines every 16 inches on-center at the stud locations for furring strip/Batten UV layout.
- Vertical seams should be laid out to be positioned behind the Batten UV or furring strips.
- The fasteners “in the field” should be covered with Batten UV/Furring Strips and can be covered with HydroFlash UV+.
- Install Batten UV vertically, horizontally, or diagonally over InvisiWrap UV, at 16 inches on-center — aligned with stud locations.
- Install 1¼ inch roofing nails, or other exterior fasteners using the slotted holes. Minimal fasteners are needed to hold the batten in place until siding is installed. Do not overdrive fasteners to allow expansion prior to cladding installation.
- **Allow a 3/8 inch space at the end of each batten to allow for expansion.**
- Battens must be installed behind corner trim and vertical window trim.
- Install siding through Batten UV and secured to the structure’s framing. Make sure to install siding per manufacturer’s instructions.



OPEN JOINT CLADDING INSTALLATION INSTRUCTIONS

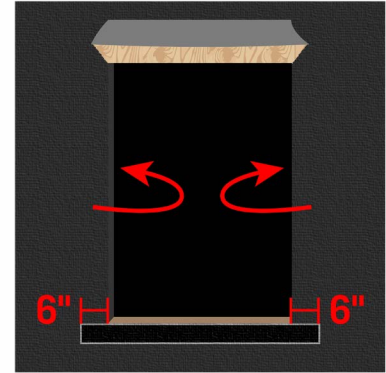
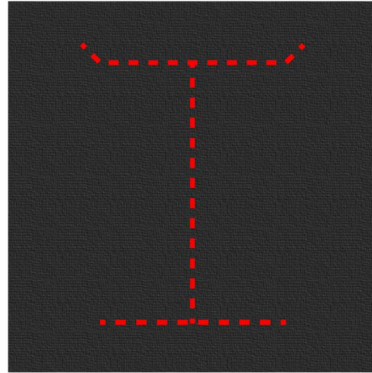
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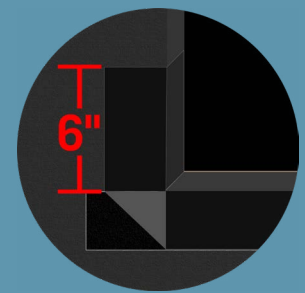
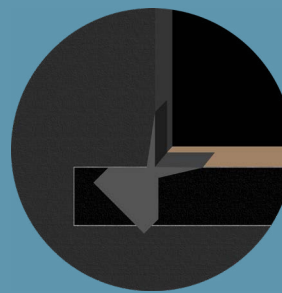
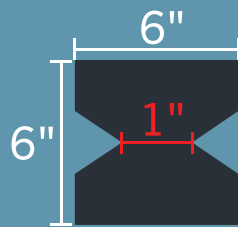
INVISIWRAP® UV WINDOW ASSEMBLY

“Fold-In” Window Installation



- Wrap the entire building including the windows and door openings.
- At each opening, cut an “I”. Cut the WRB at the head 45 degrees away from the window opening to account for flashing width.
- Fold up top trapezoid shaped “flap” and secure it temporarily with tape prior to installing the window.
- Fold side flaps into rough opening, cut and fasten.
- Install 6in. HydroFlash UV+ flush with the window sill, and 6 inches past the rough opening on either side of the jamb. All flashing should be installed with firm pressure, using a roller or hand applicator.

WINDOW SILL DETAILS



Bow Tie Detail

- **Optional:** Install back dam or sloped sill (optimal slope 0.25 in.).
- To properly flash the sill, cut and install corner patch flashing or use HydroCorners.
- Install HydroFlash 9in. to extend at least 6 inches up the side of each jamb inside window opening.
- To use HydroFlash 6in. at the sill, two pieces must be used: one piece flush with the sill edge (before corner details); and the other folded into the sill. All flashing should be installed using firm pressure, with a hand applicator.

OPEN JOINT CLADDING INSTALLATION INSTRUCTIONS

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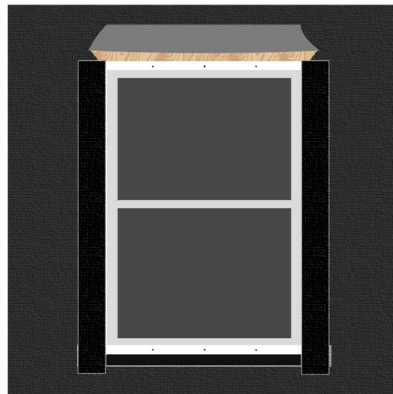
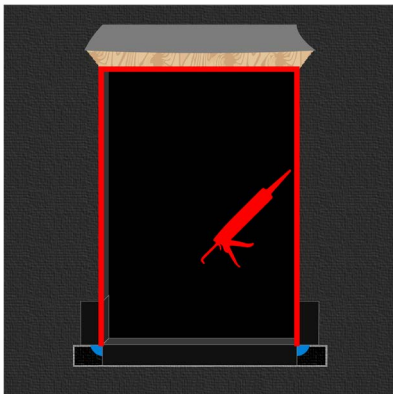
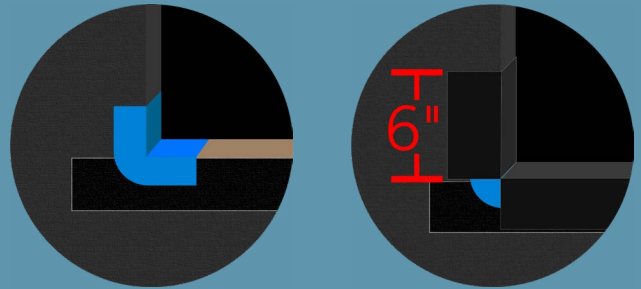
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INVISIWRAP® UV WINDOW ASSEMBLY

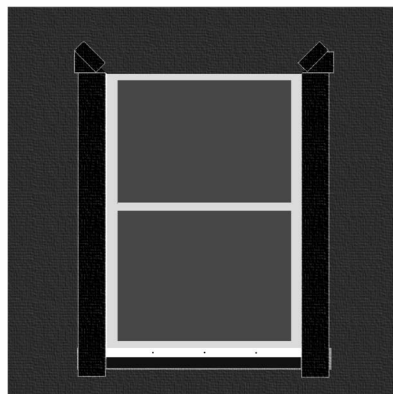
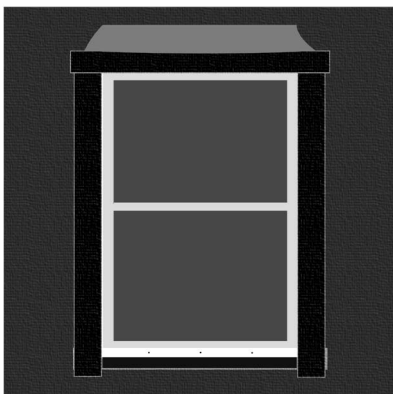
WINDOW SILL DETAILS *continued*

HydroCorner Detail

- To use HydroCorners instead of patches, place a HydroCorner in each sill corner, apply sealant to underside and fasten in place with a staple. Install HydroFlash UV+ 9in. to extend at least 6 inches up the inside of each jamb inside the window opening. HydroFlash UV+ has an acrylic adhesive that must be rolled in order to fully adhere to the substrate.



- Apply caulk/sealant at the jambs and head, avoiding the sill area. (Confirm with window manufacturer.)
- Install flanged window. And add HydroFlash UV+ over the jambs and nail fin. Surface should be clean and dry and you should always use a hand applicator or roller when applying HydroFlash products.



- Apply HydroFlash UV+ header flashing with a hand applicator. Surface should be clean and dry. Install a drip cap, if applicable.
- Fold top flap down on top of flashed header and apply HydroFlash UV+ at diagonal cuts with a hand applicator.

OPEN JOINT CLADDING INSTALLATION INSTRUCTIONS

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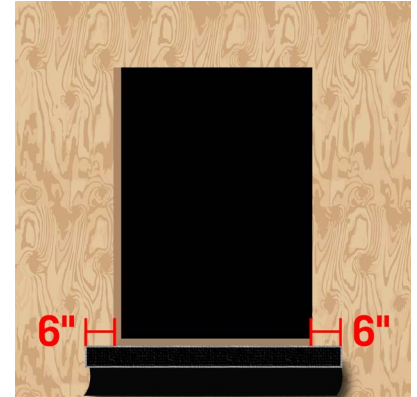
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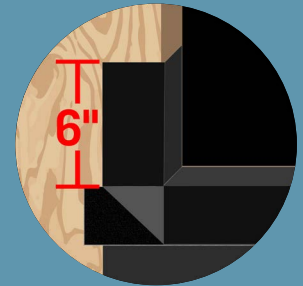
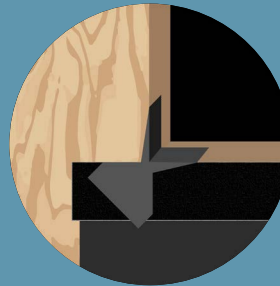
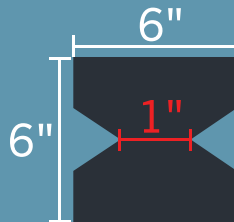
INVISIWRAP® UV WINDOW ASSEMBLY

“Windows-First” Window Installation

- Create an apron at the sill location using HydroFlash UV+ 9in. Remove the top half of the release liner and attach flush with the sill rough opening and extend beyond each vertical jamb. Leave the bottom release liner until the InvisiWrap is installed.
- Secure an InvisiWrap UV “apron” at sill using a piece of HydroFlash. Apron should extend beyond each side of rough opening at least the width of the jamb flashing. Secure apron to the wall along the top edge, but leave the bottom of the apron loose. The loose edge will overlap the layer of InvisiWrap UV installed after window installation is complete.



WINDOW SILL DETAILS

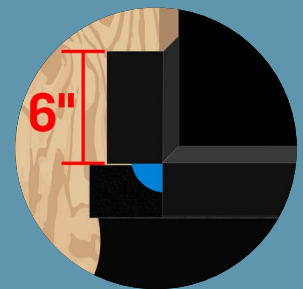
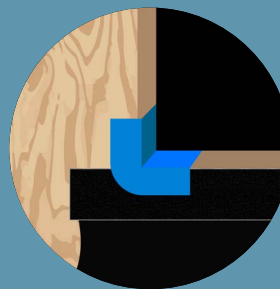


Bow Tie Detail

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HydroCorner Detail

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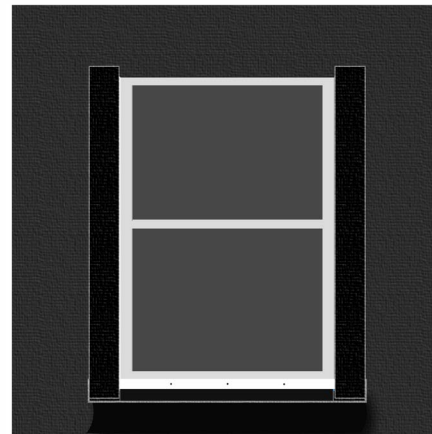
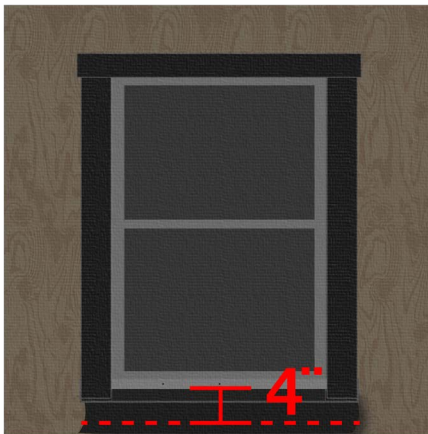
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INVISIWRAP® UV WINDOW ASSEMBLY

“Windows-First” Window Installation



- Apply caulk/sealant at jambs and head. Do not caulk at the window sill. (Confirm with window manufacturer.)
- Install flanged window. Install HydroFlash UV+ to the side jambs with a hand applicator. Surface should be clean and dry.
- Apply HydroFlash UV+ to the top nailing flange and directly to the sheathing. Install drip cap, if applicable.



- After you've wrapped the building with InvisiWrap UV, at window locations, cut back InvisiWrap to expose window. Do not cut through HydroFlash UV+ or InvisiWrap apron.
- At 2-4 inches below window, cut horizontal slit in InvisiWrap UV, extending to edges of jamb flashing. Do not cut through HydroFlash or InvisiWrap apron. Pull apron through to lap over top layer of InvisiWrap UV, creating positive drainage.
- Tape seams with HydroFlash UV+ at window jambs. Do not tape the top or bottom of window nailing flange. All flashings must be installed using firm pressure, with either a hand applicator or roller.