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MECHANICALLY ATTACHED WEATHER RESISTIVE BARRIER (WRB) installation instructions

version 10152026

MECHANICALLY ATTACHED WRB INSTALLATION INSTRUCTIONS

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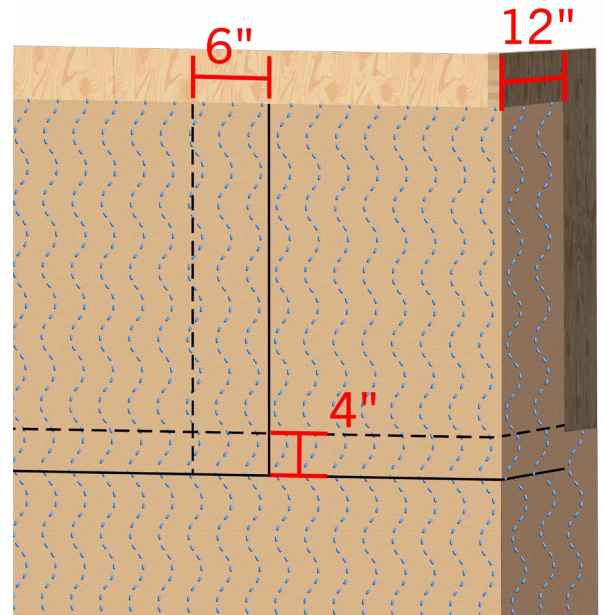
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REVIEW PRIOR TO INSTALLATION OF SELF-ADHERED WRB & FLASHINGS FOR CLOSED CLADDING APPLICATIONS

- Unroll Benjamin Obdyke WRB with printed side facing out, black smooth side for InvisiWrap. Fasten to sheathing with staples for product warranty coverage, or cap fasteners to comply with system warranty.
- Cap fasteners should provide a minimum of 1/4 in penetration into the nail base and be spaced approximately 12 to 18 inches apart along the horizontal and vertical laps. Fasten every 6 sq ft in the field.
- WRB should be installed shingle lap fashion (i.e. 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.
- Taping of seams is not required for system warranty. If using WRB as main air barrier, HydroFlash or HydroTape DS must be used.
- Cover WRB with final cladding as soon as possible to prevent damage from sunlight. Maximum UV exposure for HydroGap and BenWrap is 120 days, and 365 days for InvisiWrap.
- Flash wall penetrations (such as outlets, exhaust vents, etc.) with proper shingling technique to maintain drainage to the exterior.
- 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 in a conditioned space prior to installing in cold temperatures.
- Install windows and doors per manufacturer's installation instructions.
- Tape all holes and tears that may have been inadvertently introduced during the construction process.
- This installation guide is intended for installation direction in closed cladding assemblies. Please see Benjamin Obdyke's Open Joint Cladding with InvisiWrap Installation Instructions for installation directions of Benjamin Obdyke's uv-stable products in an open joint cladding system, including InvisiWrap.
- Benjamin Obdyke WRBs can be installed horizontally, vertically or at an angle and still maintain their performance characteristics.
- Cap fasteners and the use of HydroFlash to intergrate windows and doors to the WRB are required to qualify for system warranty coverage.
- All final cladding and trim shall be installed over all Benjamin Obdyke products in accordance with the applicable cladding or trim manufacturer's published installation instructions
- Natural wood claddings* are not recommended for direct installation over flat WRBs, including BenWrap and InvisiWrap. Failure to provide a drainage and/or ventilation space may result in reduced performance of the wall assembly. To qualify for system warranty coverage, natural wood claddings must be installed with a qualifying Benjamin Obdyke Drainable WRB or Rainscreen.



**Definition: Natural wood claddings are exterior wall products made from solid or wood-based materials with exposed wood surfaces—such as cedar, redwood, pine, fir, spruce, or cypress—installed as siding, shingles, shakes, boards, panels, or trim. They exclude products that are fully encapsulated, bonded, or protected by a factory-applied non-wood exterior facing or coating.*

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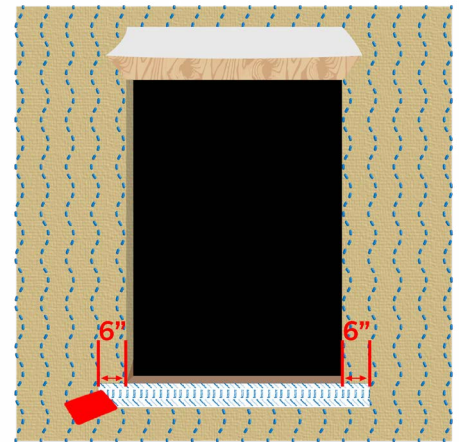
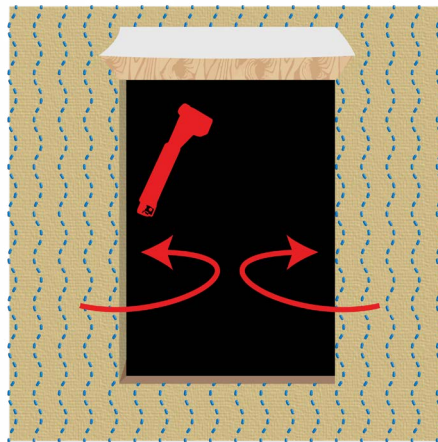
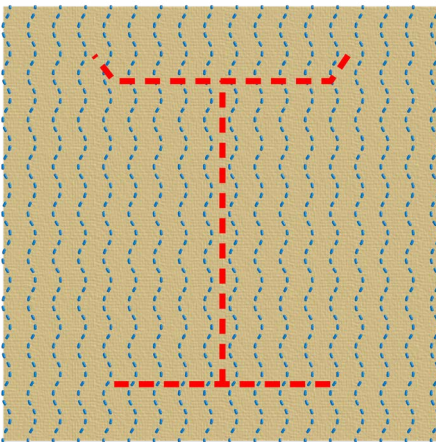
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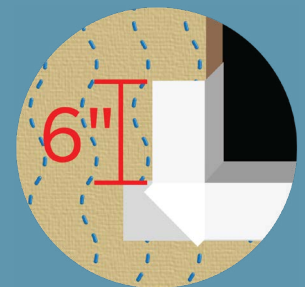
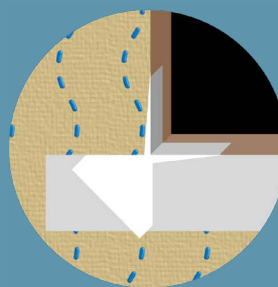
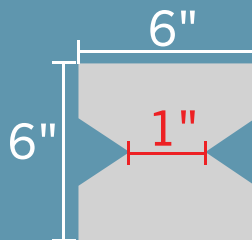
MECHANICALLY ATTACHED WRB WINDOW ASSEMBLY

“Fold-In” Window Installation

- Wrap the entire building including the windows and door openings.
- At each window opening, cut a “modified I” shape into the WRB. 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.
- Using a hand applicator, apply HydroFlash to the exterior of the sill, extending 6 inches past each jamb. Follow sill detail options.



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.

MECHANICALLY ATTACHED WRB INSTALLATION INSTRUCTIONS

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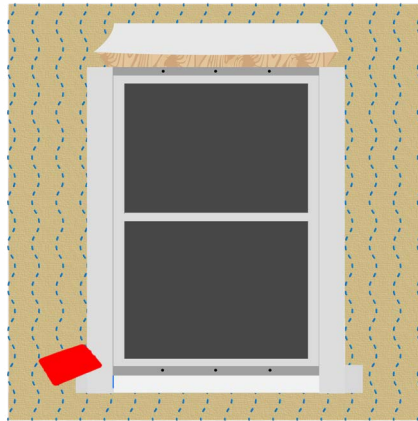
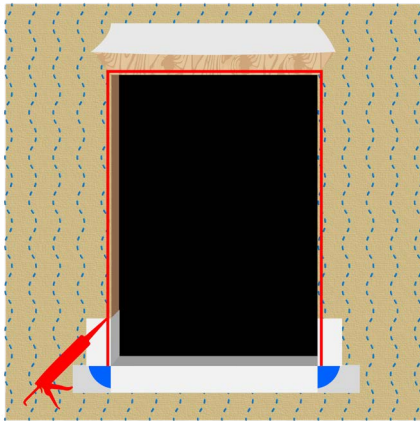
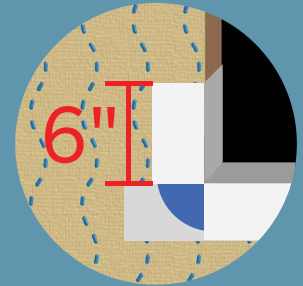
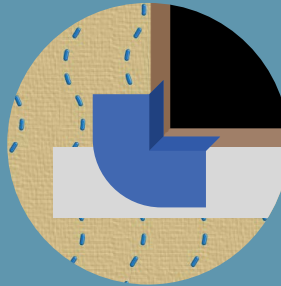
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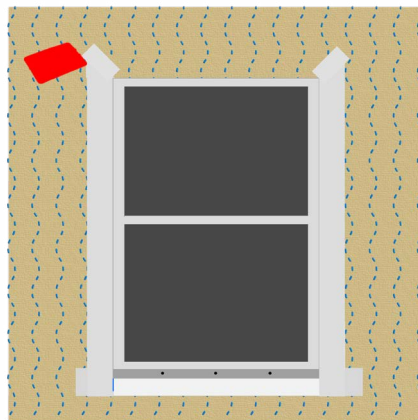
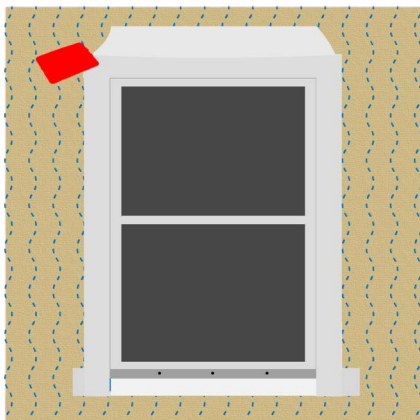
MECHANICALLY ATTACHED WRB WINDOW ASSEMBLY

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 9in. to extend at least 6 inches up the inside of each jamb inside the window opening.



- Apply caulk/sealant at the jambs and head, avoiding the sill area. (Confirm with window manufacturer.)
- Install flanged window. And add HydroFlash 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 to the top nailing flange and directly to the sheathing. Install drip cap.
- Fold top flap down on top of flashed header and apply HydroFlash at diagonal cuts with a hand applicator.

MECHANICALLY ATTACHED WRB INSTALLATION INSTRUCTIONS

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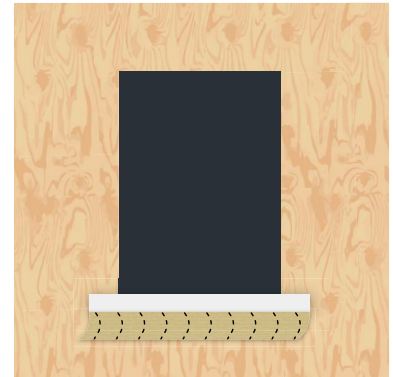
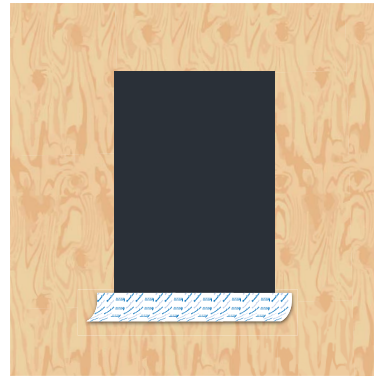
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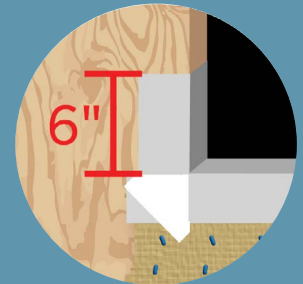
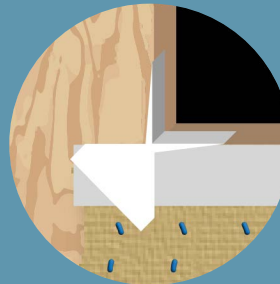
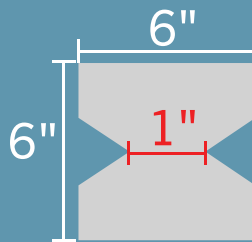
MECHANICALLY ATTACHED WRB WINDOW ASSEMBLY

“Windows-First” Window Installation

- Create an apron at the sill location using HydroFlash 9in or 12in. 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 WRB is installed.
- Secure a Benjamin Obdyke WRB “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 WRB installed after window installation is complete.



WINDOW SILL DETAILS

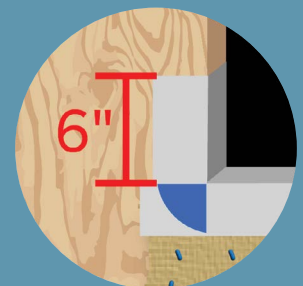
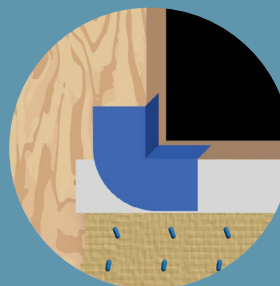


Bow tie detail

- **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.

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 9in. to extend at least 6 inches up the inside of each jamb inside the window opening.



MECHANICALLY ATTACHED WRB INSTALLATION INSTRUCTIONS

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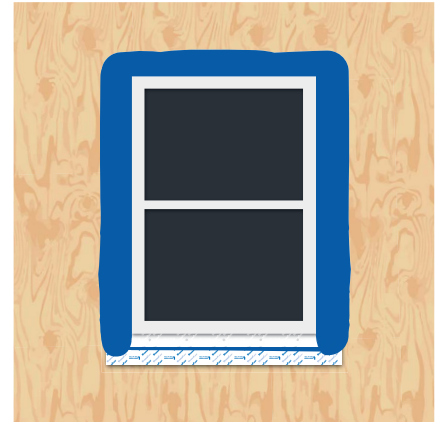
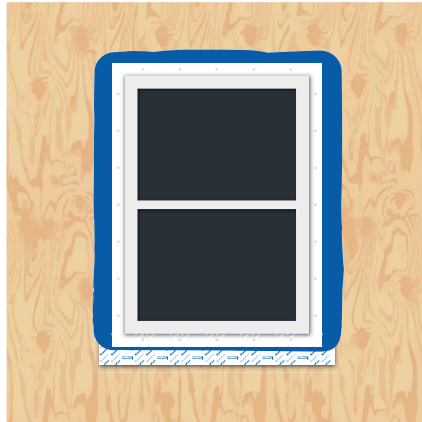
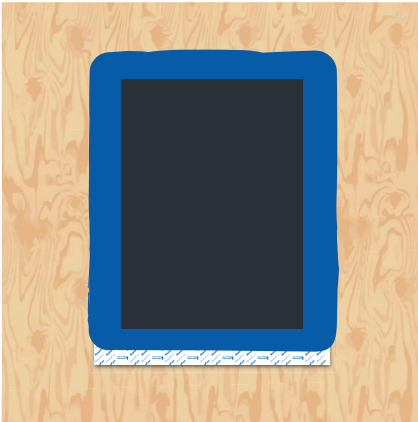
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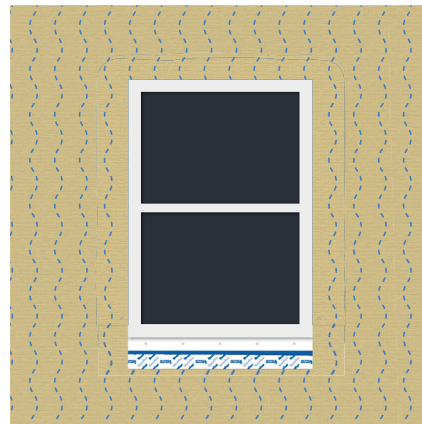
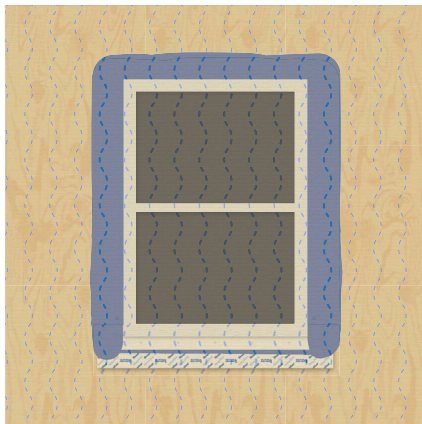
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MECHANICALLY ATTACHED WRB WINDOW ASSEMBLY

“Windows-First” Window Installation



- Complete flashing detail around full rough opening using HydroFlash (HydroFlash LA pictured).
- Apply caulk/sealant at jambs and head. Do not caulk at the window sill. (Confirm with window manufacturer.)
- Install flanged window. Install HydroFlash to the side jambs with a hand applicator. Surface should be clean and dry.
- Apply HydroFlash header flashing with a hand applicator. Install drip cap (if required). Surface should be clean and dry.



- Cut around the perimeter of the window at header and vertical jambs, extending 2-4 inches below sill then across to allow for HydroFlash or HydroGap apron to be pulled through and overlap on to the Mechanically Attached WRB, creating positive drainage.
- Do not cut through HydroFlash or HydroGap apron.
- Do not tape the bottom of window nailing flange. All flashings must be installed using firm pressure, with a hand applicator.

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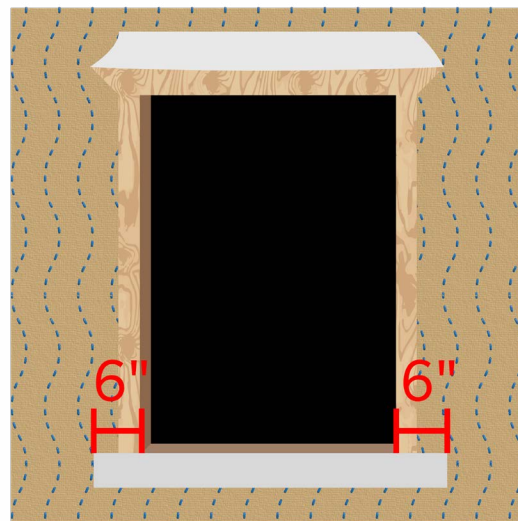
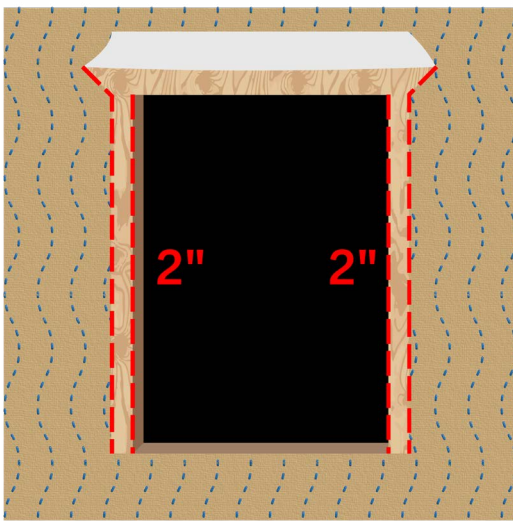
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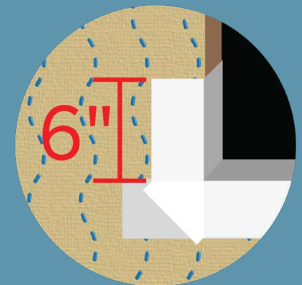
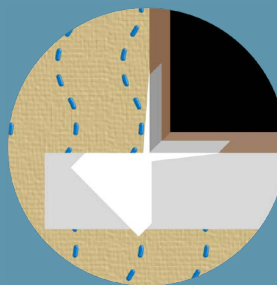
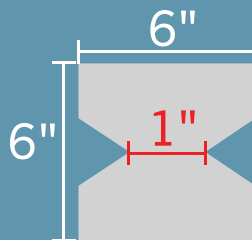
MECHANICALLY ATTACHED WRB WINDOW ASSEMBLY

“Cut-Back” Window Installation

- Wrap the entire building including the windows and door openings.
- At each window opening, cut WRB flush with window opening. Then, cut WRB back 2 inches at each window jamb to reveal sheathing. Cut WRB above the top corners 45 degrees away from window opening to account for flashing width.
- Fold up top trapezoid shape “flat” and secure temporarily with tape prior to installing window.



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.

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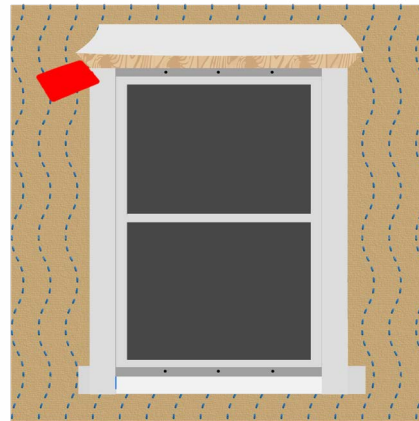
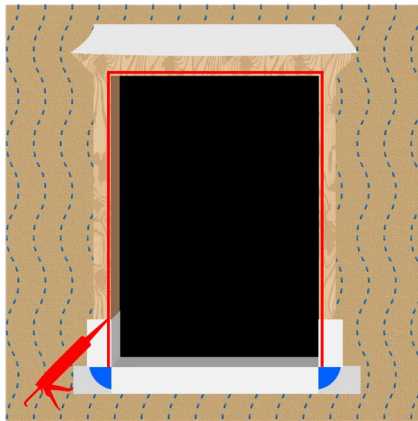
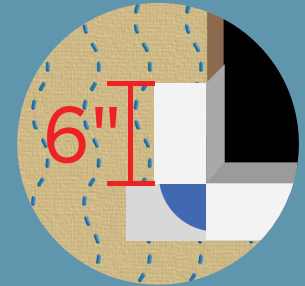
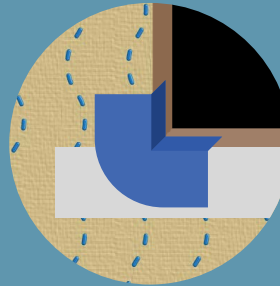
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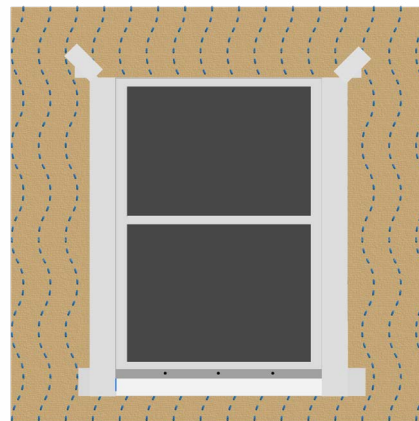
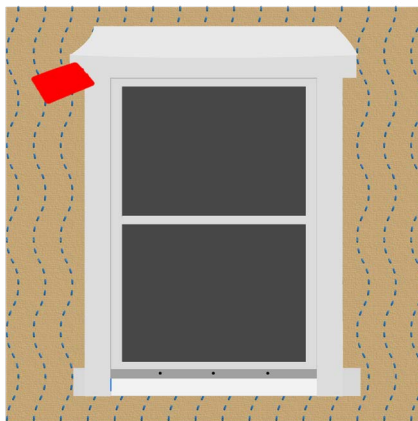
MECHANICALLY ATTACHED WRB WINDOW ASSEMBLY

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 9in. to extend at least 6 inches up the inside of each jamb inside the window opening.



- **Optional:** Sheathing to framing joints in the rough opening should be sealed with sealant or HydroFlash if detailing for air control.
- Apply caulk/sealant at jambs and head. Do not caulk at the window sill. (Confirm with window manufacturer.)
- Install flanged window. And add HydroFlash over the jambs and nail fin. HydroFlash should be on nail flange, exposed sheathing, and onto the Self-Adhered WRB at least 2 inches. Surface should be clean and dry and you should always use a hand applicator when applying HydroFlash products.



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

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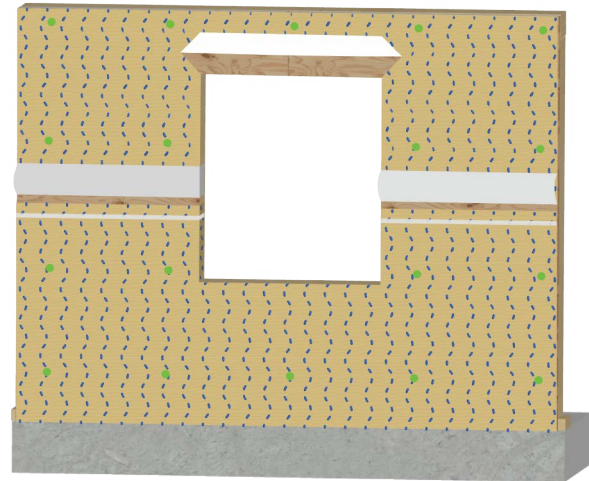
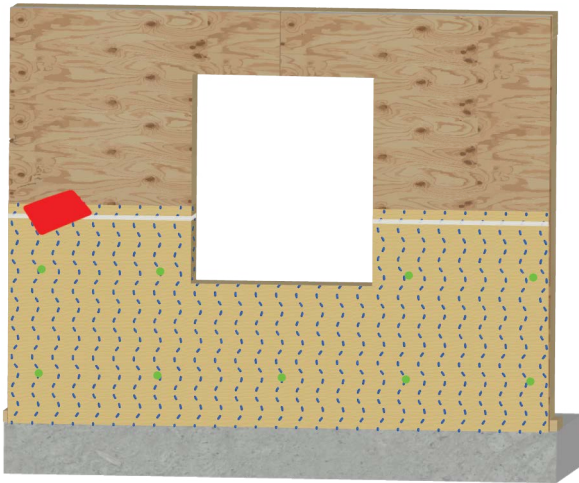
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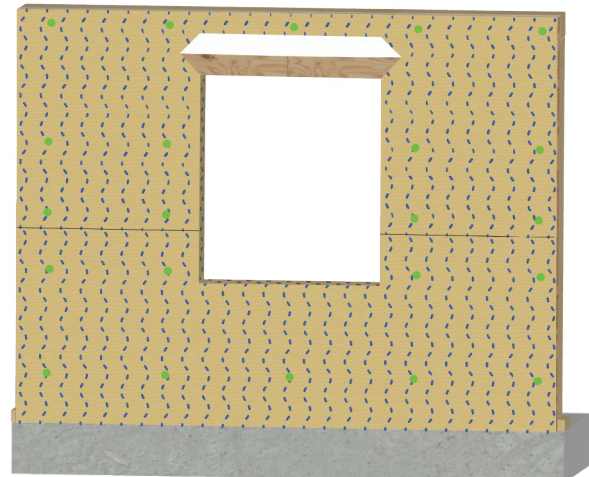
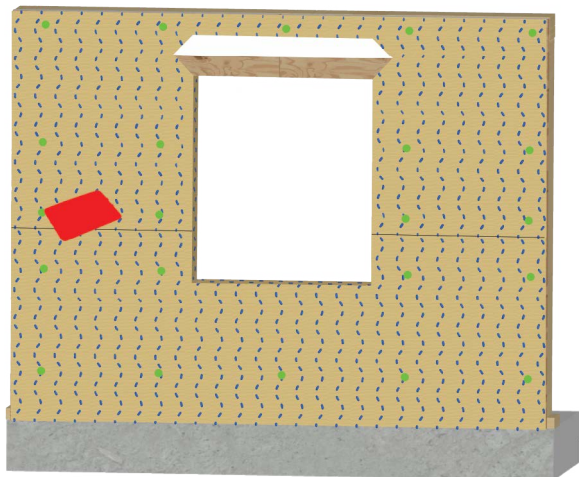
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AIR CONTROL DETAILS WITH HYDROTAPE DS DOUBLE SIDED SEALING TAPE

Horizontal Seams



- After the first row of WRB is installed, unroll the HydroTape DS and apply the adhesive directly to the WRB about 2 inches down from the top; **Apply pressure to the release liner to activate adhesive to the WRB.**
- Install the next row of WRB to achieve the proper shingle overlaps. Do not fasten the bottom 10 inches, at this point, allowing it to be folded up.



- Fold the top layer of WRB away from the seam, remove the release liner from HydroTape DS, and let the WRB flap down over the HydroTape DS. Apply pressure to the face of the WRB using a hand applicator.
- Apply cap fasteners to the overlap.

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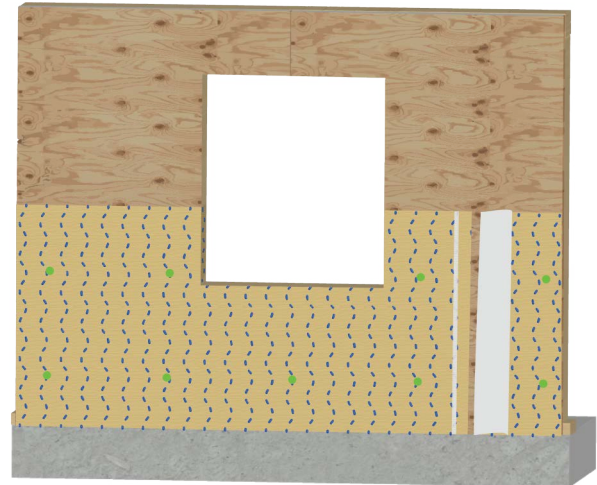
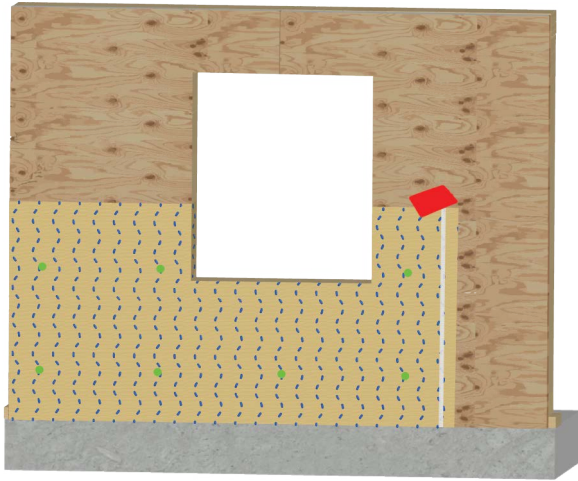
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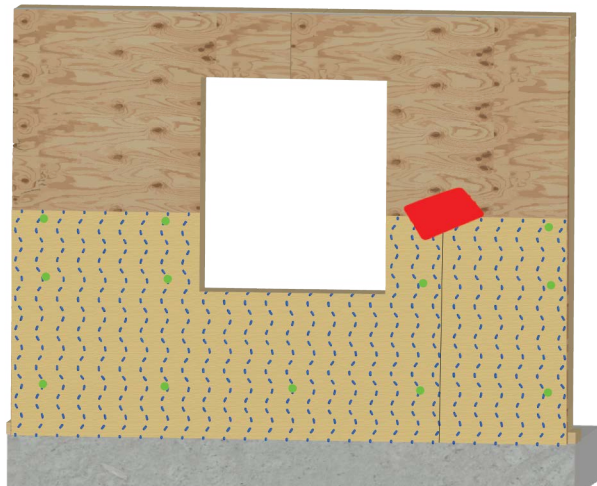
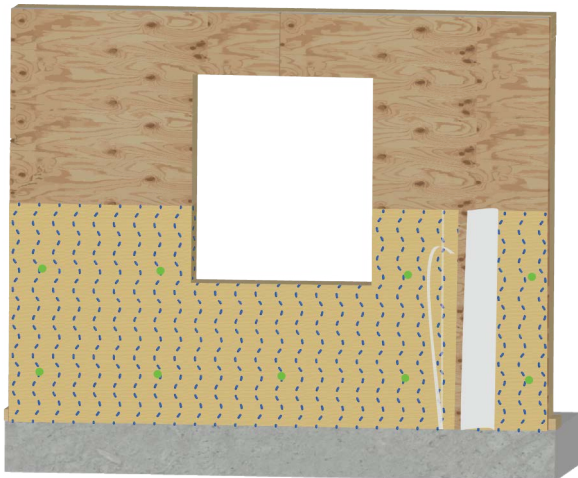
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AIR CONTROL DETAILS WITH HYDROTAPE DS DOUBLE SIDED SEALING TAPE

Vertical Seams



- At the end of the course where the overlap will occur, unroll the HydroTape DS and apply the adhesive directly to the WRB about 2 inches in from the end; **Apply pressure to the release liner to activate adhesive to the WRB.**
- Install the next section of WRB, allowing for a minimum 6 inches overlap on the vertical seam. Do not fasten the first 10 inches at this point, allowing the side flap to be folded back.



- Fold the top layer of WRB away from the seam and remove the release liner from HydroTape DS fold top layer back over, and apply pressure to the face of the WRB using a hand applicator
- Apply cap fasteners to the overlap.