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SELF-ADHERED WATER RESISTANT BARRIER (WRB) installation instructions

version 03012026



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BENJAMIN OBDYKE
roof & wall products

SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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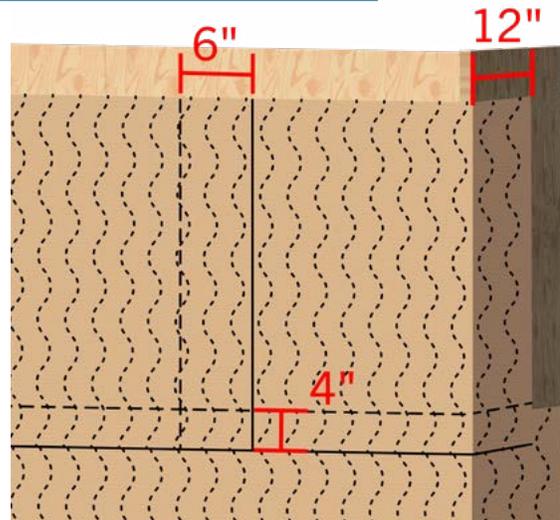
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REVIEW PRIOR TO INSTALLATION OF SELF-ADHERED WRB & FLASHINGS

- Store Self-Adhered Water Resistant Barrier (Self-Adhered WRB) above 45° F in a conditioned space prior to cold weather installation.
- Prepare the sheathing to be free of dust and debris. Cleaning with a push broom or air compressor is recommended.
- A primer is not required on most clean, dry surfaces when exterior surfaces are above 25° F.
- BenWrap SA and HydroGap SA are self-adhered products and do not require any fasteners during installation. Staples/cap-fasteners may be used to temporarily fasten as you roll out each course.
- The continuous acrylic adhesive can be repositioned on sheathing to verify a smooth installation with minimum wrinkles. However, be sure the adhesive does NOT make contact with itself.
- Self-Adhered WRBs should be installed shingle lap fashion (i.e. begin at the base of the wall assembly).
- Extend the housewrap a minimum 2 inches over sill plate.
- Overlap all horizontal seams by at least 4 inches, all vertical seams by at least 6 inches, and corners by 12 inches.
- Be sure that the housewrap and flashing installation provide for positive drainage to the exterior of the assembly.
- Do not allow the housewrap to be exposed to sunlight in excess of 120 days prior to the installation of cladding.
- You must use firm and even pressure when applying Self-Adhered WRBs to activate the adhesive. To apply even pressure and conform around the spacers, we recommend using the following:



A FLOOR
SQUEEGEE



FIRM PUSH
BROOM



LARGER HAND
APPLICATOR



- It is normal to see a few spacers fall off during the application of surface pressure. THIS WILL NOT IMPACT THE PERFORMANCE.
- Flash wall penetrations (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 inside or in a conditioned space prior to installing in cold temperatures.
- Install windows and doors per manufacturer's installation instructions.
- Tape all tears and holes that may have been inadvertently introduced during the construction process.
- HydroGap SA can be installed in any direction and still maintain its performance characteristics.
- 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 SA. 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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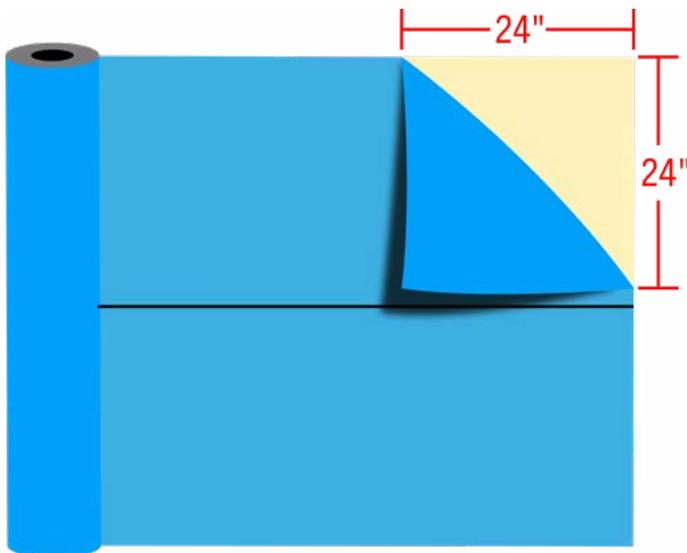
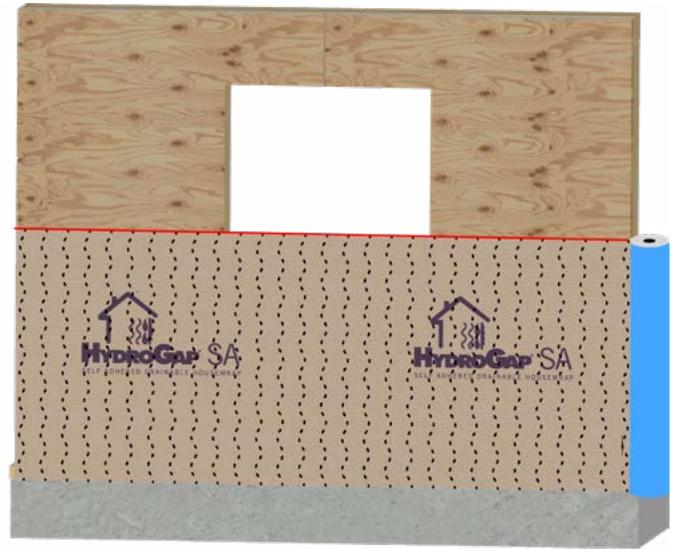
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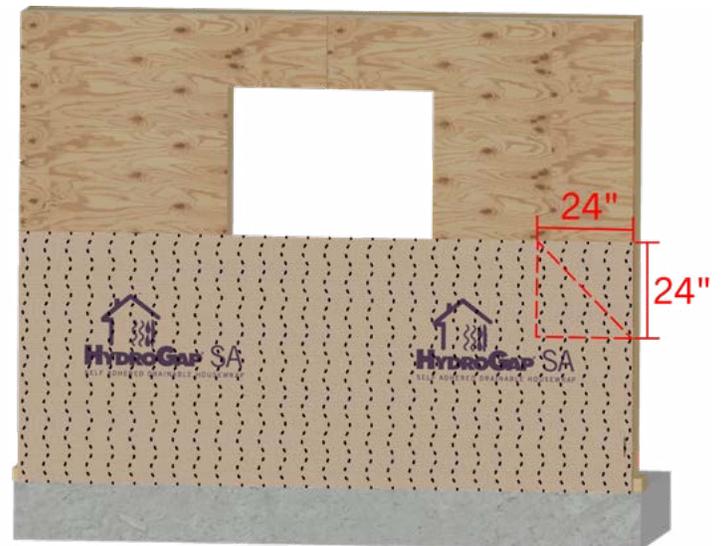
SELF-ADHERED WRB LAYOUT & INSTALLATION

Beginning Courses

- Using a chalk line, establish a “control line” to use as a guide for the top edge of the first course of Self-Adhered WRB. Follow this control line as you install the first course to minimize wrinkles and ensure maximum contact with the sheathing.
- Starting from the upper corner of the top half of the split release liner, peel 24 inches of the liner to expose the adhesive. Place the exposed adhesive corner to the edge of the “control line” to install the first course.
OPTION: You may fasten the exposed corner with a staple or cap fastener to hold in place as you continue with the next step.
- Once the corner is firmly in place, pull the rest of the top half of the release liner at a 45 degree angle as you work to unroll the wrap along the wall. Verify alignment and begin to smooth starting from the center of the Self-Adhered WRB and work to the edges. Adhesive can be repositioned on the sheathing to verify maximum contact and reduce wrinkles and air pockets.



BACK OF Self-Adhered WRB



SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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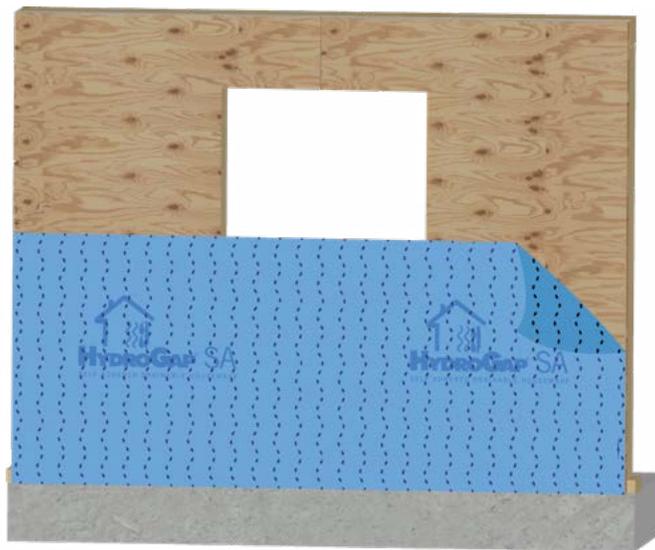
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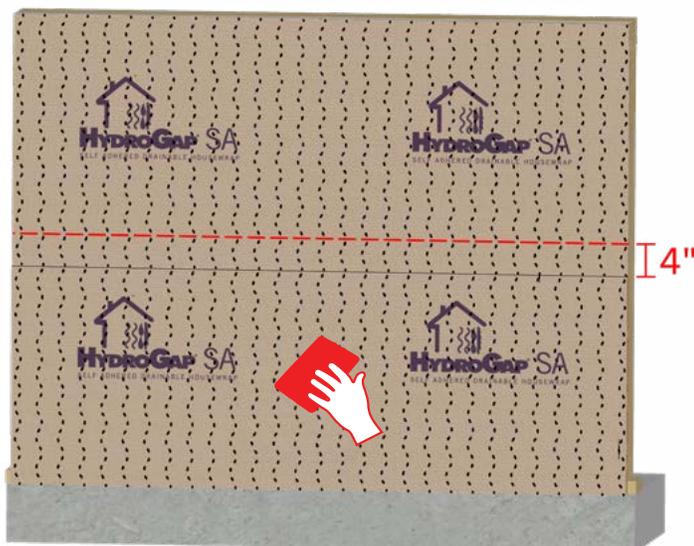
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SELF-ADHERED WRB LAYOUT & INSTALLATION

WRB Layout/Installation



- Once the course is in place, use an application tool to apply firm, even pressure to fully adhere the wrap to the sheathing.
- Repeat the same steps for consecutive courses, shingling over as you work up the wall. Overlap requirements are as follows: horizontal overlaps 4 inches, vertical overlaps 6 inches, and 12 inches inside or around corners.



SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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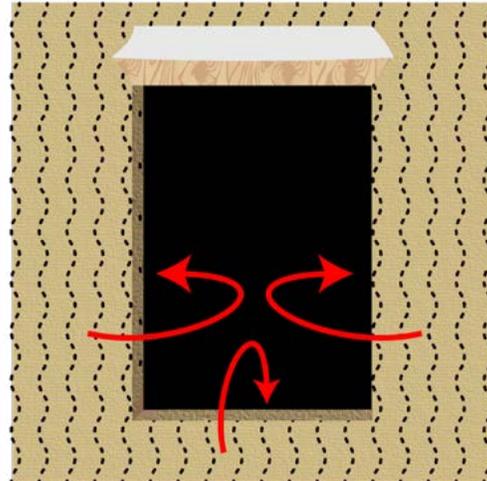
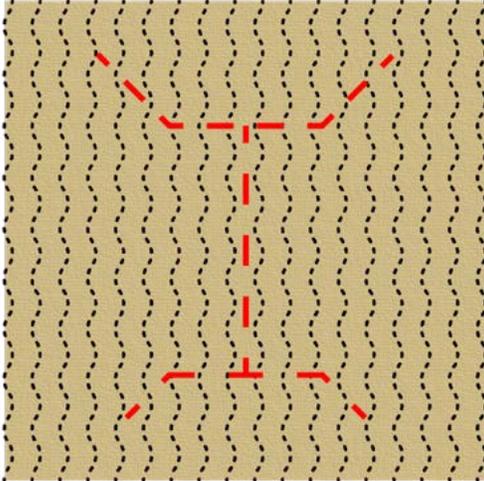
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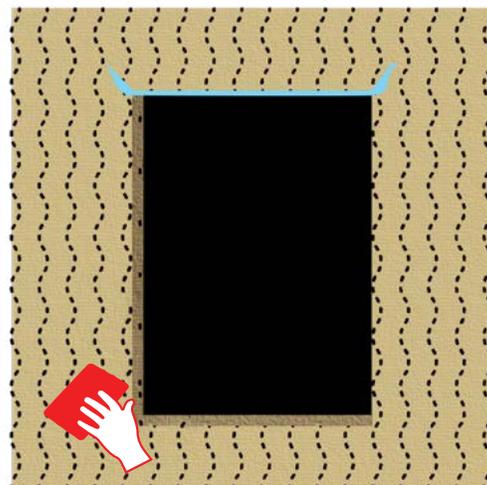
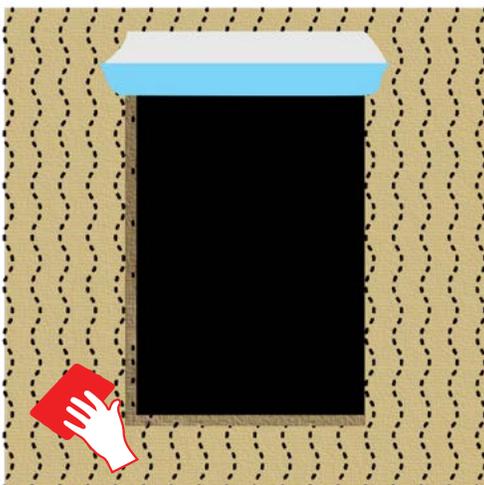
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SELF-ADHERED WRB WINDOW ASSEMBLY

“Fold-In” Window Installation



- When wrapping the structure in the Self-Adhered WRB, avoid rolling/applying pressure to the top of windows and doors, this will ensure the proper shingle lapping of self-adhered flashing tape.
- At each window open, cut a “modified I” shape into the housewrap. Cut housewrap above the top corners 45 degrees away from the window opening to account for flashing width.
- Fold side flaps into rough opening. Cut and apply pressure allowing the adhesive to stick to the jambs.



- Fold up top trapezoid shape “flap” and stick a strip of the adhesive backer underneath (proper orientation of the liner is shiny side out), keeping the flap from sticking to the sheathing.

SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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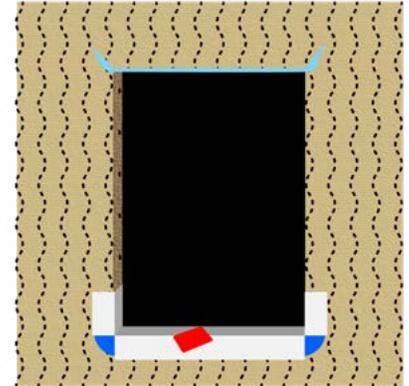
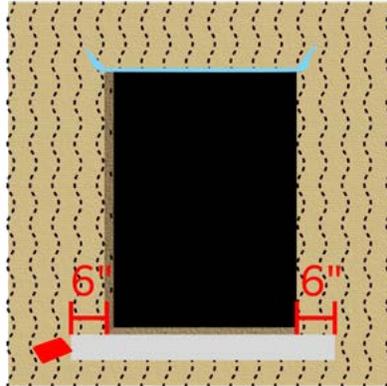
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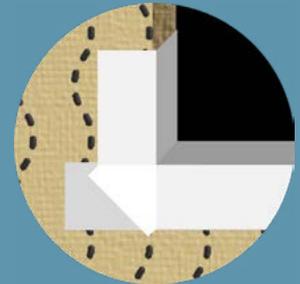
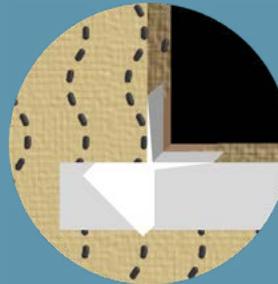
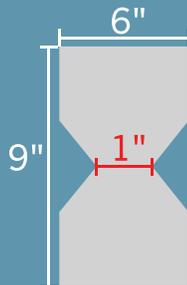
SELF-ADHERED WRB WINDOW ASSEMBLY

“Fold-In” Window Installation

- 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

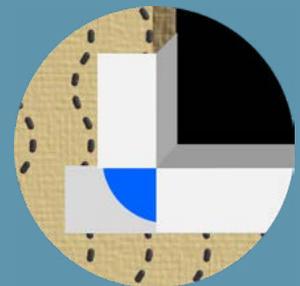
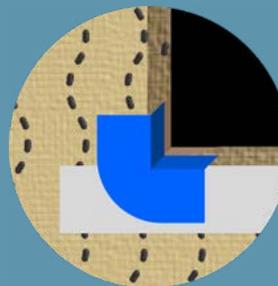


Bow Tie Detail

- **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.

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.



SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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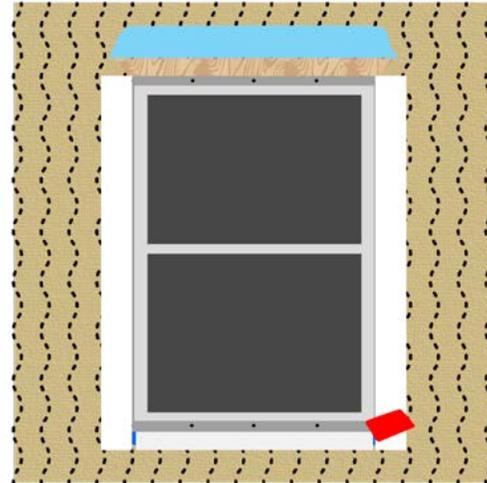
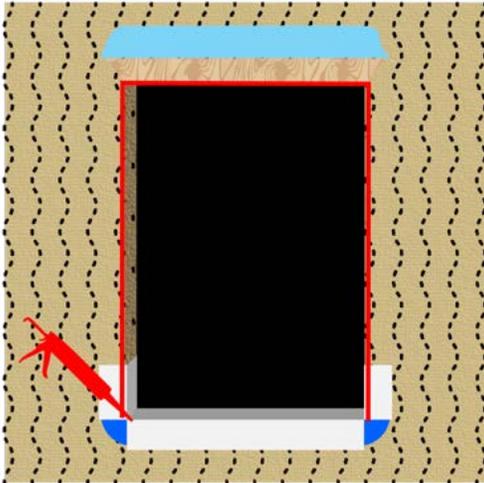
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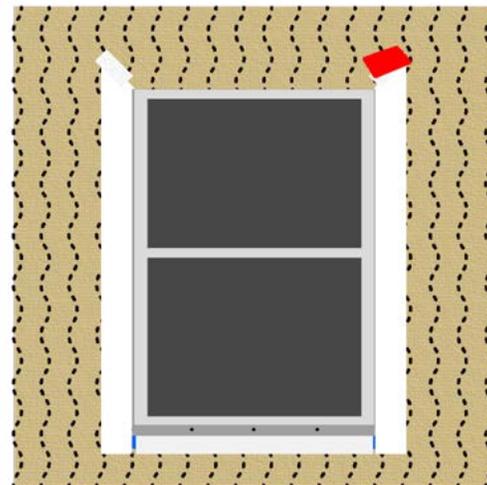
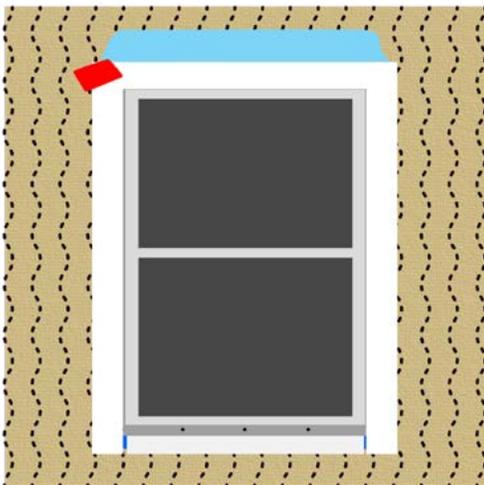
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SELF-ADHERED WRB WINDOW ASSEMBLY

“Fold-In” 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 to the side jambs with a hand applicator. Surface should be clean and dry.



- Apply HydroFlash header flashing with hand applicator. Install drip cap (if required). Surface should be clean and dry.
- Fold top flap down removing the adhesive backer. Using a hand applicator, apply pressure to the Self-Adhered WRB activating the acrylic adhesive over the header flashing.
- Apply HydroFlash at the diagonal relief cuts.

SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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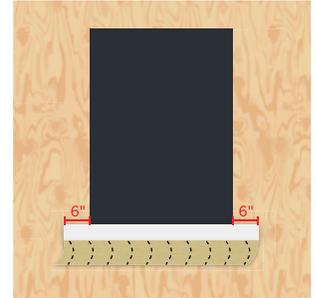
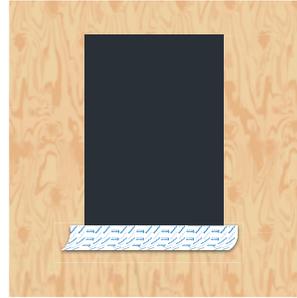
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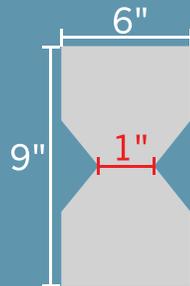
SELF-ADHERED WRB WINDOW ASSEMBLY

“Windows First” Window Installation

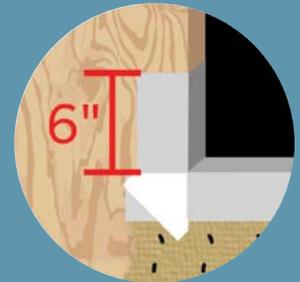
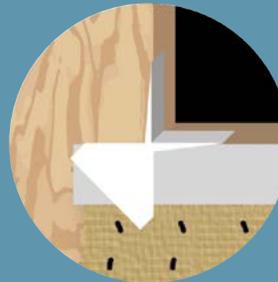
- Secure a HydroGap “apron” at sill using a piece of HydroFlash. Apron should extend beyond each side of rough opening at least the width of the jamb flashing; not less than 6 inches. Secure apron to the wall along the top edge, but leave the bottom of the apron loose. The loose edge will overlap the layer of the Self-Adhered WRB installed after window installation is complete. To detail for air control, use HydroFlash 9in. to create the apron and leave the lower release liner intact.



WINDOW SILL DETAILS



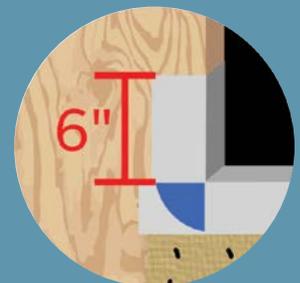
Bow Tie Detail



- Optional:** Install back dam or sloped sill (optimal slope 0.25 in.)
- 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.



SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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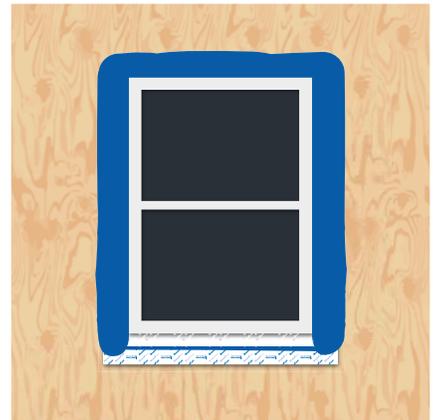
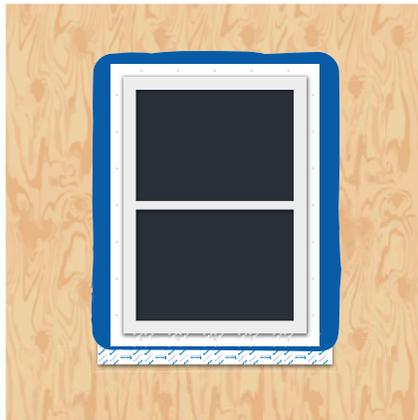
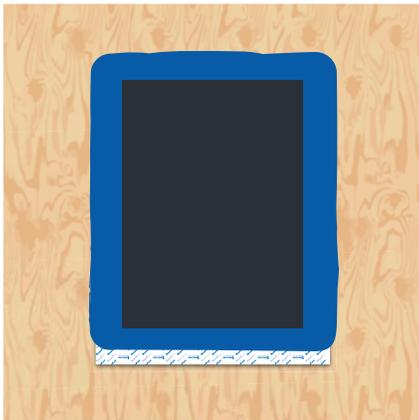
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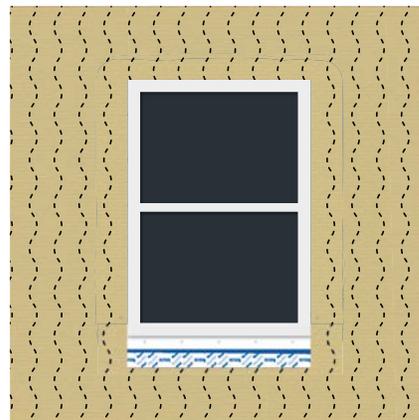
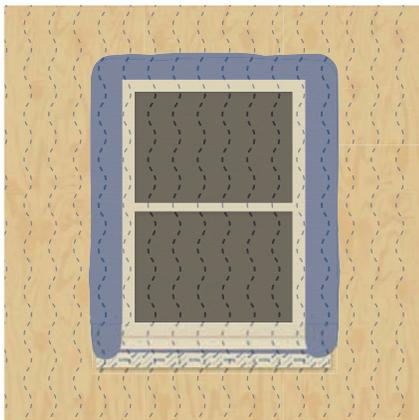
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SELF-ADHERED WRB WINDOW ASSEMBLY

“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.



- Leave release liner on the back of the Self-Adhered WRB to prevent adhesive from sticking to window. 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 Self-Adhered 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.

SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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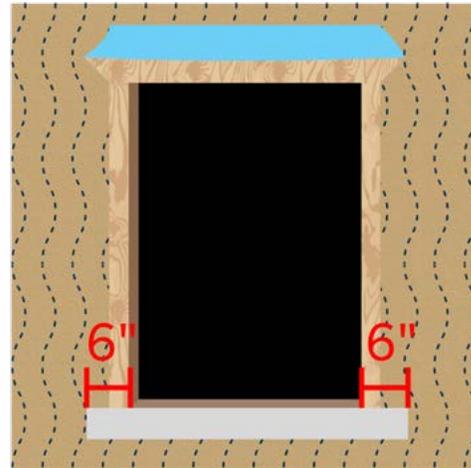
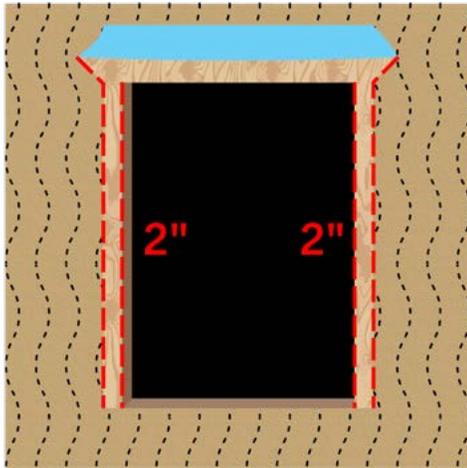
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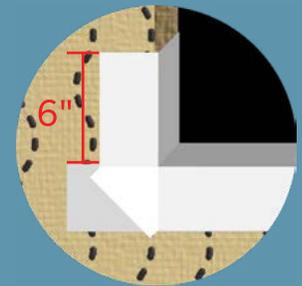
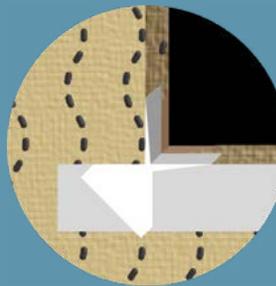
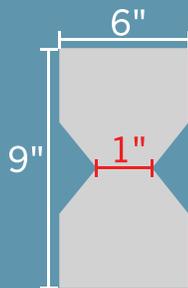
SELF-ADHERED WRB WINDOW ASSEMBLY

“Cut-Back” Window Installation

- Wrap the entire building including the windows and door openings.
- At each window opening, cut housewrap flush with window opening. Then, cut housewrap back 2 inches at each window jamb to reveal sheathing.
- Cut housewrap above the top corners 45 degrees away from window opening to account for flashing width. Fold up top trapezoid shape “flap” and stick a strip of the release liner underneath (proper orientation of the liner is shiny side out), keeping the flap from sticking to the sheathing.



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.

SELF-ADHERED WRB INSTALLATION INSTRUCTIONS

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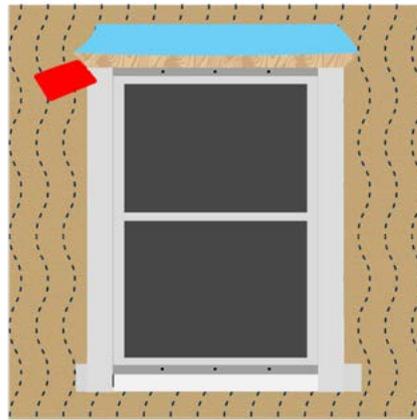
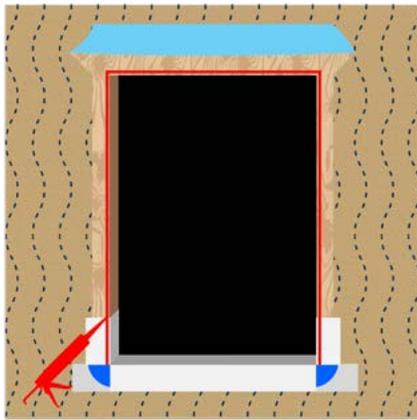
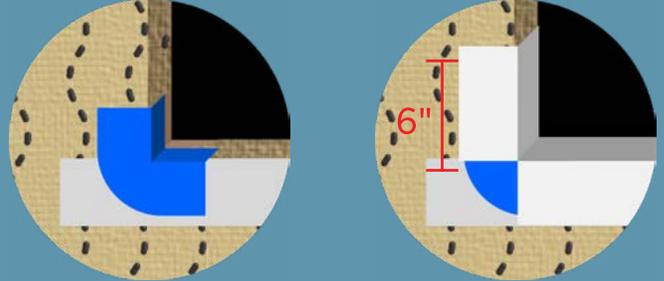
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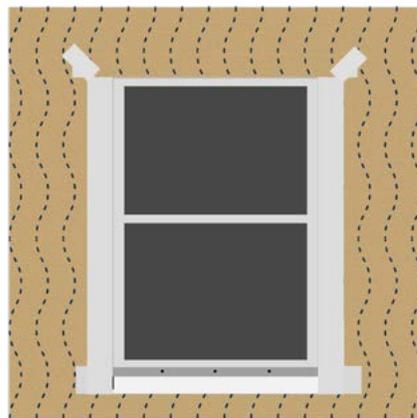
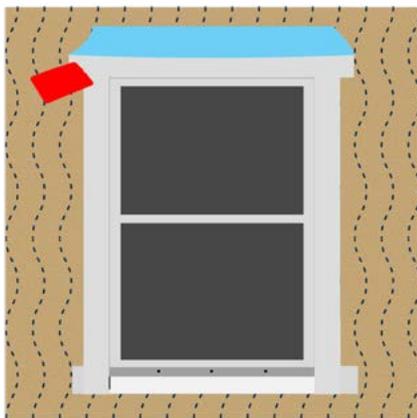
SELF-ADHERED WRB WINDOW ASSEMBLY

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. HydroFlash has an acrylic adhesive that must be rolled in order to fully adhere to the substrate.



- 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.
- Remove release liner and fold top flap down on top of flashed header and apply HydroFlash at diagonal cuts with a hand applicator.