ThermalBuck
Self-Adhered WRB
Installation

Self-Adhered WRB - Interior to Continuous Insulation

CUT WRB

Cut each jamb back 1.5" - 2.0" to expose sheathing.

Cut corners at 45° angles.

TRIM

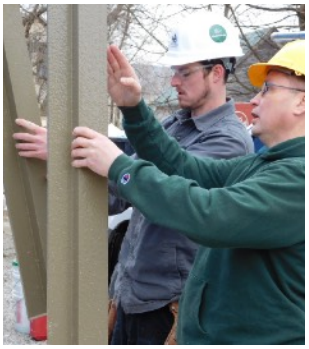
Trim WRB flush with opening at the sill. The WRB will wrap against the side of ThermalBuck, and the seam covered with flashing tape.

Trim WRB flap at head. It should extend far enough into the rough opening to cover the nail flange once the window is installed.

Tape back the head piece and both jambs.

MEASURE

Measure the RO. Allow 1/2" extra on all 4 sides (1" overall) than recommended by the window manufacturer. Level & plumb, shim interior jack studs if needed.



INSPECT

Inspect ThermalBuck for any damage, cuts, dents, or gouges through the coating.

CUT

Angle cut each piece of ThermalBuck 45° with a mitre saw.

Undersize both ends 1/16"-1/8" to allow for sealant.

DRY-FIT

Dry-Fit the pieces of ThermalBuck to make sure it fits properly, and the corners line up. Adjust if needed.

Slight gaps are needed for sealant at corners.

PRESS

WRB should be flush at sill. Smooth to remove all wrinkles.

NOTE: *The sill is the only place where the WRB goes underneath ThermalBuck.*

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AIR & WATER SEAL

Apply three 3/8" beads of recommended sealant* to the back of each piece of ThermalBuck.

Ensure 100% ooze-out at all transitions for tight air & water seal.

ATTACH

Starting at the sill, push ThermalBuck firmly into the rough opening. Apply pressure along the entire length to ensure you have a good seal, and 100% ooze out.

SEAL ENDS

Add sealant to mitered ends. Ensure 100% ooze-out at all transitions for complete air & water seal. Add sealant if needed.

NOTE: *Continue to attach jambs then head.*

Repeat for each jamb and the head piece. Seal behind, then attach. Ensure all 4 corners align, and adjust as needed.

NOTE: *100% ooze-out is needed at all transitions for a good air & water seal..*

MINIMIZE WASTE

Consider using split pieces on each jamb to reduce waste. Use whole pieces on the sill and head.

Miter cut each seam, and seal. Nail close to each seam through 1/2" tongue.

NAIL TONGUE

Firmly pull ThermalBuck up against the sheathing, and nail a 2" galvanized roofing nail through the 1/2" tongue into the structure, every 10"-12".

Use nail gun or hand nail.

100% OOZE-OUT

When installing adjoining pieces, sealant can get pushed back into the joint.

Add sealant if needed at each seam to ensure a tight air & water seal.

SMOOTH

Once 100% ooze-out is achieved, smooth sealant and remove excess.

Install ThermalBuck with recommended sealants: DAP Dynaflex 800 or Dow Corning 758

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CLAMP

Clamp all 4 corners with two roofing nails while the sealant cures (up to 24 hrs.)

NOTE: *Do not install window until sealant has cured. Consult the sealant manufacturers' instructions.*

SEAL PERIMETER

Apply 3/8" bead of sealant around the edge of each jamb.

Seal the head transition after the window goes in, before bringing the head flap down over nail flange.

PRESS WRB

Press WRB into the bead of sealant firmly, to ensure a good seal.

Smooth to remove all wrinkles out of WRB.

WRB should overlap 1/2 of ThermalBuck.

INSTALL WINDOW

Install window according to the manufacturers' instructions.

For good drainage, skip seal the sill flange leaving 3" gaps, or do not seal.

LEVEL

Center the window in ThermalBuck, then install screws in upper corners to hold into place.

Ensure level, shim interior if needed.

NOTE: *If must shim on sill, 1" sq. shim per 40 lbs.*

FASTEN

Fasten window with #10 screws or nails, angled, to ensure min. 1-1/4" penetration into stud. The window must be structurally attached to the building.

NOTE: *Fasteners must penetrate min 1-1/4" into structure.*

REVIEW

Please refer to the installation instructions of the WRB, CI and window manufacturer you have selected, and consider best practice building science for the remaining steps.

*Install ThermalBuck with recommended sealants: DAP Dynaflex 800 or Dow Corning 758

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FLASH WINDOW

Flashing should cover the nail flange, and the transition of the WRB to ThermalBuck.

This can be achieved with two separate pieces of tape, or one wide piece.

Flash entire length of each jamb, with the tape going under the WRB at the head, and extending past ThermalBuck at the sill

NOTE: *Use WRB manufacturers' recommended tape, or preferred tape.*

FLASH JAMBS

Flash nail flange at each jamb with WRB manufacturers' tape. The tape should also cover the seam on the jamb where the WRB meets ThermalBuck.

Cut end of flashing in half lengthwise to continue 90° angle. Press the outer half against the structure. Press the inner half against ThermalBuck, wrapping around the corner.

SEAL HEAD

Apply 3/8" bead of sealant around the edge of head transition of ThermalBuck and OSB.

Release head flap and press WRB into wet sealant, smooth to remove wrinkles.

FLASH HEAD

The head flap should cover the nail flange completely.

Flash the WRB transition across window head with WRB manufacturers' tape, and extend outward .

Cover the angled cuts in WRB with tape.

CONTINUOUS INSULATION

Install continuous insulation according to the manufacturers' instructions. Ensure max. 1/8" tolerance to ThermalBuck.

INTERIOR FINISH

Seal *both* the transition of ThermalBuck to the window and to the framing to complete the air and water seal.

NOTE: *If extension jambs are pre-installed, seal the ThermalBuck to the rough opening prior to the window install.*

Install ThermalBuck with recommended sealants: DAP Dynaflex 800 or Dow Corning 758

Materials & Tools:

- ThermalBuck
- DAP Dynaflex 800 or Dow Sil 758*
- 2″ Roofing Nails for ThermalBuck
- #10 Screws for flange (minimum penetration 1 1/4″ into structure)
- Window
- WRB
- Exterior or Continuous Insulation
- Flashing**
- Shims
- Mitre Saw
- Measuring Tape
- Utility Knife
- Level
- Hammer or Nail Gun
- Pencil
- Sealant Gun
- Safety Glasses & Hearing Protection

*or other approved sealants
** use WRB manufacturers' recommended flashing

Guidelines:

- Rough Opening must be sized 1/2″ larger than window manufacturers' recommendations on each side (1″ overall) to accommodate ThermalBuck.
- Refer to the manufacturers' installation guides for the WRB, insulation, and window, and consider best practices for integrating the installation steps.
- Avoid inhaling dust particles from machining ThermalBuck.
- Wear protective gear.
- Operate tools safely and follow manufacturers' operation guidelines.
- If injury occurs, seek medical attention immediately.

Attention:

- Refer to the manufacturers' installation guides for the WRB, insulation, and window, and consider best practices for integrating the installation steps. This is the responsibility of the architect, builder, consultant, and buyer.
- Request written product instruction, associated warranties and damage coverage, then provide this information and warranties to the end user and/or building owner for future reference.
- Follow all manufacturers' guidelines regarding material use, compatibility, preparation, personal safety, and disposal of any building materials.
- Any alterations to the installation instructions and recommended materials could cause failures.

Note:

For additional information please refer to following document, FMA/AAMA/WDMA 500-16 Standard Practice for the Installation of Mounting Flange Windows into Walls Utilizing Foam Plastic Insulation (FPIS) with a Separate Water-Resistive Barrier (WRB)

THERMAL BUCK™