

ThermalBuck™ Installation



Water Resistant Barrier Exterior to Continuous Insulation



MEASURE

Measure the RO. Allow 1/2" additional room on all sides (1" overall) than recommended by window manufacturer. Check for level & plumb, shim interior if needed.



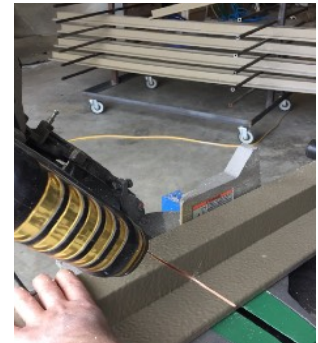
INSPECT

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



CUT

Angle-cut pieces of ThermalBuck™ with a mitre saw - undersize 1/16" - 1/8" to allow for sealant at corners.



ANGLE

Angle the end cut of each piece at half the angle of the Rough Opening (45°).



DRY-FIT

Dry-Fit the pieces of ThermalBuck™ to make sure it fits properly, adjust if needed.



AIR & WATER SEAL

Apply three 3/8" beads of Dow Corning 758 Sealant to the back of each piece of ThermalBuck™. Ensure 100% ooze-out at all transitions for air & water seal.



ATTACH

Starting at the sill, push ThermalBuck™ firmly into the rough opening along the total 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.

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 (FPI) with a Separate Water-Resistive Barrier (WRB)



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Repeat for each jamb, and head piece. Ensure all 4 corners align, and adjust as needed. 100% ooze-out is needed at all transitions for proper water and air sealing.



NAIL TONGUE

Firmly hold ThermalBuck™ in place, and nail a 2" roofing nail through the 1/2" tongue into the structure, every 10"-12".



SMOOTH

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



CLAMP

Clamp all 4 corners with a nail while the sealant cures (**24 hrs**).

Do not install window until sealant has cured.



SEAL

Apply 3/8" bead of sealant around the perimeter of all sides of ThermalBuck™.



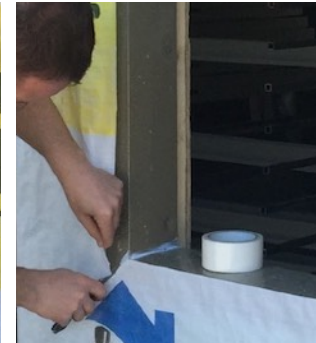
CONTINUOUS INSULATION

Install CI according to the manufacturer's instructions. Ensure max. 1/8" tolerance to ThermalBuck™.



CUT WRB

Cut all 4 sides of WRB flush to Rough Opening.



Angle all four corners to pull head and sill flap back .

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Tape back the head piece and both jambs.



SEAL WRB

Apply 3/8" bead of sealant along ThermalBuck™ at sill where WRB will adhere to ThermalBuck.



PRESS

Press WRB into the sealant against ThermalBuck™ at bottom sill. Smooth to remove all wrinkles in WRB.



FLASH

Flash across the seam where the WRB meets ThermalBuck™.



Flash across both ends of the horizontal flashing across the sill, to cover the end of the WRB.



SEAL WINDOW

Apply 3/8" bead of sealant to the back side of the nail fin on head and jambs, across the nail holes. Along the bottom flange, ensure at least two 3" gaps in the sealant for drainage.



INSTALL WINDOW

Set window into place, utilizing the following instructions or the window manufacturer's instructions, whichever are most stringent.



SECURE

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

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LEVEL

Check to see if window is plumb and level, adjust shims if necessary. Ensure all nail holes have 100% ooze-out.



FASTEN

Fasten window with #10 screws or nails, angled slightly away from the window to ensure good penetration into the structure. Fasteners must provide min. 1.5" penetration into the structural member (allow for sheathing.)



SEAL WRB

Place a bead of 3/8" sealant across the nail or screw holes.



PRESS WRB

On both jambs, press WRB into the bead of sealant firmly, to ensure a good seal. Smooth to remove all wrinkles out of WRB.

Do not attach head flap at this point.



FLASH

Place flashing across transition of flange and WRB on both jambs. Start flashing above flange on window, and extend past the angle cut WRB at bottom.



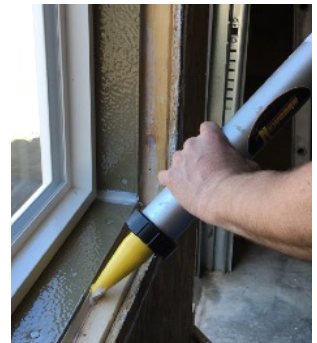
SEAL HEAD

Apply 3/8" bead of sealant across the edge of head transition.



Release head flap of WRB and press into sealant. Smooth to remove all wrinkles.

Finish with a final piece of flashing across the top two corners of cut WRB.



INTERIOR FINISH

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

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

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Materials & Tools:

- ThermalBuck™
- Dow Corning 758 or DAP Dynaflex 800
- 2" Roofing Nails for ThermalBuck
- #10 Nails or Screws for flange (min. penetration 1-1/4" into structure)
- Window
- WRB
- Continuous Insulation
- Flashing (see WRB recommendations)
- Mitre Saw
- Measuring Tape
- Utility Knife
- Level
- Hammer
- Pencil
- Sealant Gun
- Safety Glasses & Hearing Protection



Guidelines:

- Review the rough opening preparation from the window manufacturer, then *add an additional 1" overall to their rough opening recommendation* to accommodate ThermalBuck.
- Refer to the manufacturer's installation guides for the WRB, CI, 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 manufacturer's operation guidelines.
- If injury occurs, seek medical attention immediately.

Attention:

- Refer to the manufacturer's installation guides for the WRB, CI, 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 manufacturer's guidelines regarding material use, compatibility, preparation, personal safety, and disposal.
- Any alterations to the installation instructions and recommended materials could cause failures.

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). Available for download at aaamanet.org