

ThermalBuck™

Door Installation Guide - 4 sides

ThermalBuck can be installed both on all 4 sides of the door, or 3 sides (just the head and jambs). The determining factor is generally the interior flooring. If it can accept the door threshold being raised up by the 1/2" tongue of ThermalBuck, use on all 4 sides. If not, use on 3 sides - head, and jambs. Integrate ThermalBuck with threshold as directed in the "4 sides" installation guide.



Quick Tips:

- Consider combined depth of insulation panel and/or rain screen when choosing the right depth of ThermalBuck. See "Product Dimensions" at thermalbuck.com for details.
- Rough opening must be oversized by 1" overall to accommodate the 1/2" tongue of ThermalBuck.
- Consider specific wall assembly specification for integration of the WRB. An assortment of guides based on WRB type and placement in the wall assembly are available at thermalbuck.com.
- Store ThermalBuck on pallet supplied by BRINC Building Products, or off the ground supported by 3 runners.
- If storing ThermalBuck outdoors, cover with a waterproof, opaque cover.

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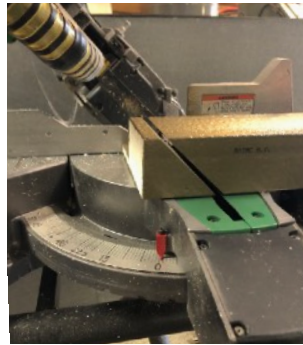
MEASURE

Measure the pre-framed RO to confirm the additional 1/2" on all 4 sides (1" overall) than recommended by the door manufacturer. Level & plumb, adjust RO if needed.



MINIMIZE WASTE

Consider all RO dimensions, and plan cuts to minimize waste. Leftover pieces of ThermalBuck can be used on small windows, or to splice jambs.



CUT

Miter the end of each piece at half the angle of the RO. (Typically 45°)

Undersize each piece 1/16" to 1/8" to allow for sealant at seams.



DRY-FIT

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

Slight gaps are needed at corners for sealant.

NOTE:

Installation instructions may vary at this point depending on the placement of the WRB in the wall assembly.

Detailed installation instructions for integrating the WRB, continuous insulation, and flashing the door available at thermalbuck.com.



AIR & WATER SEAL

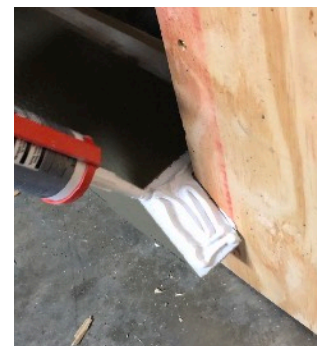
Apply three 3/8" beads of recommended* sealant to the back of each piece of ThermalBuck.

*For recommended sealants, see FAQ's at thermalbuck.com.



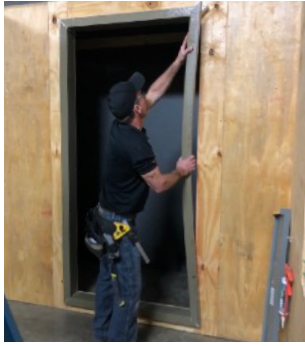
INSTALL

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 at all transitions.



SEAL ENDS

Add sealant to mitered ends.



Repeat for each jamb and head piece, considering which one will be easiest to flex into place last. Ensure all corners align before nailing tongue, and adjust as needed.

100% ooze-out is needed at all transitions for proper water and air sealing.



NAIL TONGUE

Once all pieces of ThermalBuck are placed, firmly push into RO and drive a 1-3/4" roofing nail through the 1/2" tongue into the structure, every 10"-12".

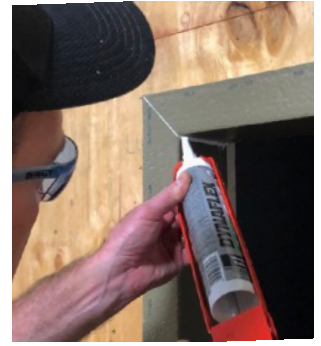
Use a roofing nail gun if preferred.



CLAMP

Clamp corners with 2" roofing nails if gap is more than 1/4" while the sealant cures (see sealant manufacturer's instructions).

Do not install door until sealant has cured.



SEAL GAPS

If 100% ooze-out did not occur at all transitions, force sealant into any voids.



SMOOTH

Smooth sealant and remove excess.



MEASURE

Measure the portion of the rough opening not covered by ThermalBuck.



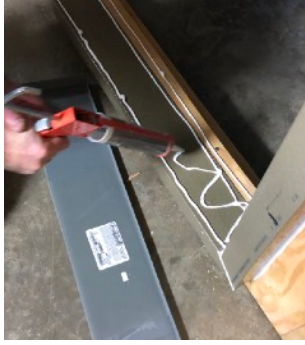
SEAL INTERIOR

Move to the interior of the rough opening, and seal the transition of ThermalBuck to the framing to create a back dam.



FILL

Add 1/2" strips of plywood to fill in framing before installing door.



SILL PREP

Apply sealant on top of sill piece of ThermalBuck.

Install sill pan according to manufacturers' instructions.

For this installation, we used the DAP Quick Door Kit. <https://www.dapquickkit.com/>



SEAL SILL PAN

Ensure sill pan is properly sealed before door is installed.



INSTALL DOOR

Consult door manufacturers' instructions before installation.



LEVEL & PLUMB

Ensure door is level & plumb, shim if needed.



SHIM

Place shims according to door manufacturers' instructions.

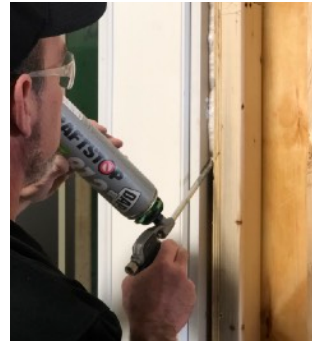


FASTEN

Fasten hinge side according to the door manufacturers' instructions.



Fasten latch side according to the door manufacturers' instructions.



SEAL

Seal the gap between the door and wall framing with foam or sealant to complete the air & water seal.

Materials & Tools:

- ThermalBuck
- Recommended sealant - see thermalbuck.com
- 1 - 3/4" & 2.0" Roofing Nails for ThermalBuck
- #10 Screws for flange (minimum penetration 1 -1/4" into structure)
- Door
- WRB (if specified)
- WRB manufacturers' recommended flashing tape
- Continuous Insulation and/or Rainscreen
- Shims if needed
- Treated lumber for sill (if not using ThermalBuck)
- Circular Saw
- Miter Saw
- Measuring Tape
- Utility Knife
- Level
- Hammer or Nail Gun
- J-Roller & Paddle for flashing tape
- Pencil/Marker
- Sealant Gun
- Safety Glasses & Hearing Protection

Guidelines:

- Rough Opening must be sized 1/2" larger than door manufacturers' recommendations on 3 or 4 sides to accommodate ThermalBuck (see cover page).
- Refer to BRINC Building Product's installation guides for ThermalBuck, along with manufacturers' instructions for WRB, continuous insulation, and door. Consider best practices for integrating the installation steps. *This is the responsibility of the architect, builder, consultant, and buyer.*
- 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:

- 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)