

# ThermalBuck™

## Door Installation Guide - 3 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 "3 sides" installation guide below.*



### 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](http://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](http://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.

# ThermalBuck™

## Door Installation Guide - 3 sides



### 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.



### CUTS

When installing ThermalBuck on 3 sides, miter the top end of each jamb piece 45°.

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



Straight cut the lower ends of each jamb piece, then notch to fit around the wood framing at the threshold.

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



### DRY-FIT

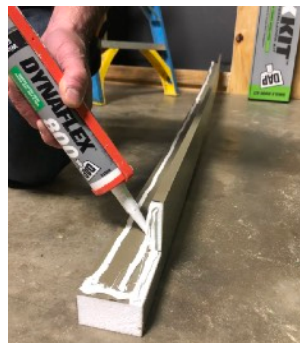
Dry-Fit the pieces of ThermalBuck to make sure it fits properly, adjust if needed.

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](http://thermalbuck.com).



### AIR & WATER SEAL

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

\*For recommended sealants, see FAQ's at [thermalbuck.com](http://thermalbuck.com).



### INSTALL THERMALBUCK

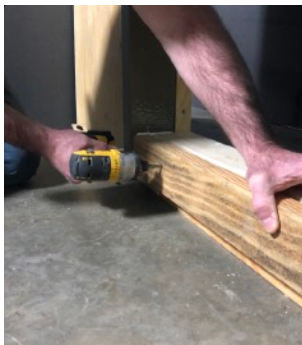
Starting at the left jamb, push ThermalBuck firmly into the rough opening along the total length to ensure you have a good seal, and 100% ooze out at all transitions. DO NOT INSTALL HEAD & RIGHT JAMB AT THIS POINT.



## INSTALL SUPPORT

Cut treated lumber to fit between jamb pieces of ThermalBuck, in order to extend the plane of the threshold to meet the exterior insulation plane.

Apply sealant to back and both ends of the treated support.



## FASTEN SUPPORT

Drive screws or nails through the support piece into the structure min 1-1/4".

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



## SEAL ENDS

Add sealant to mitered and notched ends.



## CONTINUE THERMALBUCK

Insert the head piece, then flex right jamb into the rough opening. Push firmly along the total length to ensure you have a good seal.



Ensure both corners align before nailing tongue, adjust as needed.



## 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".

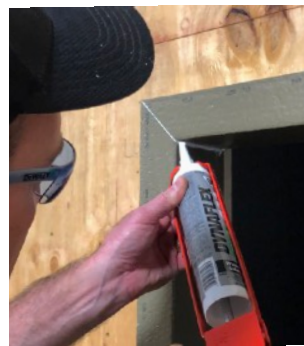
Use a roofing nail gun if preferred.



## CLAMP

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



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## 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 behind ThermalBuck tongue before installing door.



## FLASH THRESHOLD

Cut 2 pieces of 9" flashing tape to match the outside width of jamb legs.

Center first piece in opening, starting first piece at top outside edge of treated support, adhering down over face of support, and back onto sheathed wall.



Start 2nd piece of flashing tape at interior threshold framing and adhere to floor decking, moving outward toward support block.



Notch corners, and fold tape up inside the inside of jamb legs, and down over the face of treated support, ThermalBuck, and 1st piece of tape in shingle fashion.



## PRESS/ROLL TAPE

Press or roll the tape, ensuring good adhesion around all angles.



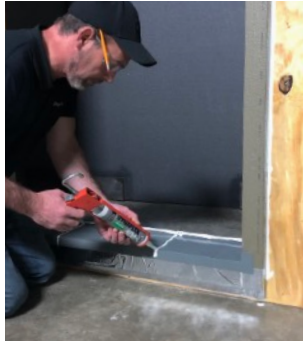
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## SILL PAN

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.

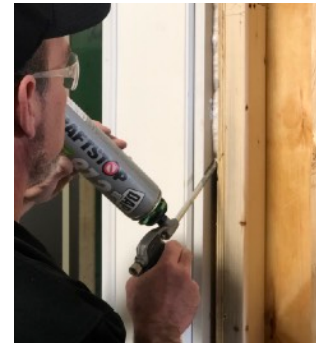


## FASTEN

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.



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## Materials & Tools:

- ThermalBuck
- Recommended sealant - see [thermalbuck.com](http://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)