ThermalTight™ System
Complete Installation Guide
Without Strapping/Flush Installation

WATER · AIR · VAPOR + THERMAL ThermalTight™
Made of Neopor®
Innovation in Insulation

Before Installing:

- Rough opening must be sized 1/2″ larger than window manufacturers' recommendations on each side to accommodate ThermalBuck.
- Follow all manufacturers' guidelines regarding material use, compatibility, preparation, personal safety, and disposal of any building materials.
- Request and provide warranty information to the end user and/or building owner for future reference. Find warranty requirements at www.thermaltight.com/warranty.

Safety Guidelines:

- Wear manufacturer recommended protective gear for all materials used.
- Avoid inhaling dust particles from cutting and handling ThermalBuck and ThermalTight.
- Operate tools safely and follow manufacturers' operation guidelines.
- If injury occurs, seek medical attention immediately.

Warning:

- *If storing ThermalBuck outdoors, cover with a waterproof, light-colored, opaque covering. DO NOT cover with clear, transparent, or black-colored plastic of any kind as this may result in product damage.*
- Any alterations to the installation instructions and recommended materials may result in product and/or assembly failure.

Materials:

- ThermalTight™
- ThermalBuck™
- BRINC Fluid FS
- 1 3/4" roofing nails for ThermalBuck
- #10 Screws for flange
  (Minimum penetration 1-1/4″ into structure)
- Corrosion-proof ring shank nails with caps
- Z-Strip
- Window
- Shims if needed
- Foam backer rod

Tools:

- Circular saw
- Miter saw
- Measuring tape
- Utility knife
- Level
- Hammer or nail gun
- Plastic-bladed putty knife
- Pencil or marker
- Sealant gun for 20oz sausage tube
- Safety glasses & hearing protection

Note: Photos are for illustrative purposes only. Refer to textual instructions.

BRINC inc. BUILDING PRODUCTS

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Step 1: Install ThermalBuck

MEASURE
Measure the rough opening to confirm correct sizing, 1/2" larger than required on each side. Level & plumb, adjust rough opening if needed.

CUT
Miter the end of each piece at half the angle of the rough opening, usually 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.

AIR & WATER SEAL
Apply three 3/8" beads of BRINC Fluid FS on the back of each piece of ThermalBuck as shown above.

SEAL ENDS
Add BRINC Fluid FS to mitered ends.

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.

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.

SEAL GAPS
Force additional sealant into transition joints where ooze out did not occur.

SMOOTH
Smooth sealant and remove excess

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Step 2:
Install ThermalTight

INSTALL Z-FLASHING

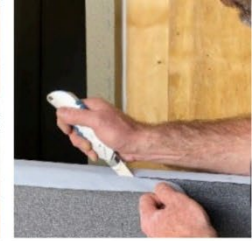Start by applying a 3/8" to 1/4" bead of BRINC Fluid FS to the top, backside of the Z-flashing.

FASTEN

Fasten Z-strip to wall at bottom of sheathing line using 1 3/4" roofing nails face of nail flange on the Z-flashing.

CUT & DRY-FIT THERMALTIGHT

Measure and cut panels to fit tight against ThermalBuck. Panels may be run horizontally or vertically. Always stagger vertical seams.

TRIM BOTTOM FLAP

Trim bottom flap, if needed, to match thickness of the ThermalTight panel that will rest on the Z-flashing. ONLY do this for bottom row panels.
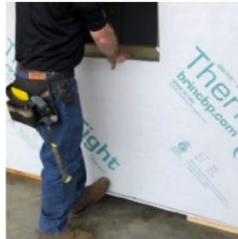
TAPE FLAP

Tape the trimmed flap to the backside of the ThermalTight panel to hold it in place.
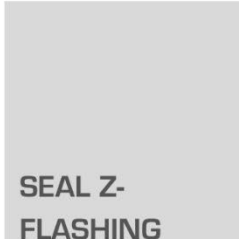
SEAL Z-FLASHING

Apply a 3/8" bead of BRINC Fluid FS to inside lip of Z-flashing before placing bottom row of panels.

INSERT LOWER PANEL

Insert bottom of ThermalTight panel into Z-flashing.

ATTACH PANEL

Fasten ThermalTight panel to sheathing with corrosion proof ring shank nails. 12" o.c. edges, and 16" o.c. in field.

CUT UPWARD FACING FLAPS

Remove flaps that are not needed to overlap another panel in shingle fashion.

Flap from panel above will be adhered to this lower panel.

TRIM VERTICLE FLAPS

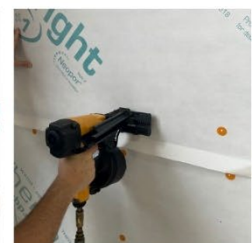Cut panel flap off to permit overlap of next panel. The adjoining panel flap will be used to overlap the WRB.

INSERT UPPER PANEL

Insert upper ThermalTight panel. Ensure flap remains to overlap lower panel.

Remaining flap will be adhered to previous panel.

FASTEN

Attach additional panels, and fasten with corrosion-proof, ring shank nails with button caps 12" o.c. edges and 16" o.c. in field. Keep caps away from flashing area. Ensure flap of top panel remains to overlap panel below.

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Step 3:
Flash & Seal
ThermalTight
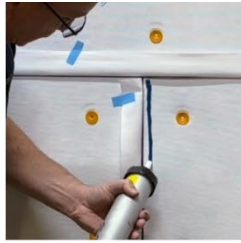
SEAL VERTICLE SEAMS

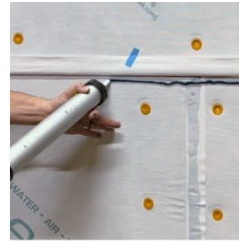Apply a 3/16" to 1/4" bead of BRINC Fluid FS under the flap a half-inch from the joint.

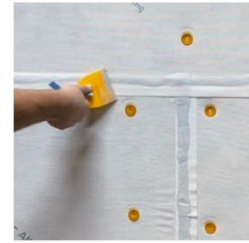Note: Always seal vertical seams before horizontal seams.

SMOOTH

Using a plastic-bladed putty knife, carefully smooth over the flap with firm, diagonal pressure to adhere the WRB and sealant. Finished seal should be at least 1" wide for good adhesion.
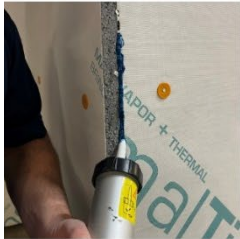
HORIZONTAL SEAMS

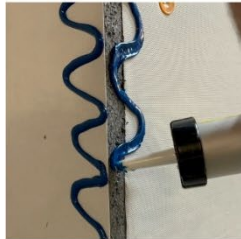Apply a 3/16" to 1/4" bead of BRINC Fluid FS under the flap a half-inch from the joint.

SMOOTH

Using a plastic-bladed putty knife, carefully smooth over the flap with firm, diagonal pressure to adhere the WRB and sealant Finished seal should be at least 1" wide for good adhesion.

FILL OUTISDE GAPS

Add sealant to completely fill gaps in the outside joint.

FLASH OUTSIDE CORNERS

Apply a generous 1/2" bead of BRINC Fluid FS on each side of the outside corner in an S-pattern. The pattern should be 3 to 4 inches wide.
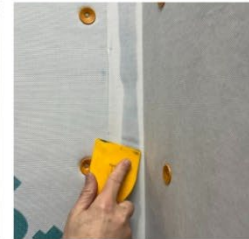
SMOOTH

Using a plastic-bladed putty knife, smooth each bead together to create a single, continous seal
Note: Add additional BRINC Fluid FS to thin spots or gaps.

FLASH INSIDE CORNERS

Apply a 3/8" to 1/4" bead of BRINC Fluid FS under the flap a half-inch from the joint.

SMOOTH

Using a plastic-bladed putty knife, carefully smooth over the flap, from top to bottom, with firm pressure to adhere the WRB and sealant.

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Step 4:
Install & Flash Window

SHIM

Shim window on top of ThermalBuck if required. Use one square inch of shim per 40 lbs. window.

INSTALL WINDOW

Consult window manufacturer's instructions before installing window.

Fasten window through ThermalBuck with #10 screws or nails, angled slightly to ensure good penetration into the framing.

Fasteners must penetrate min. 1-1/4" into the stud for structural attachment.

FLASH SILL

Apply a generous 1/2" bead across the ThermalBuck and ThermalTight panel. DO NOT seal sill flange.

SMOOTH

Using a plastic-bladed putty knife, smooth to create a single, continous seal.

Add additional BRINC Fluid FS to thin spots or gaps.

FLASH JAMBS

Apply a generous 1/2" bead of BRINC Fluid FS in an S-pattern across the window flange, ThermalBuck and ThermalTight panel.

SMOOTH

Using a plastic-bladed putty knife, smooth the bead to create a single, continous seal.

Note: Add additional BRINC Fluid FS to thin spots or gaps.

FLASH HEAD

Apply a generous 1/2" bead of BRINC Fluid FS in an S-pattern across the window flange, ThermalBuck, and ThermalTight panel.

SMOOTH

Using a plastic-bladed putty knife, smooth the bead to create a single, continous seal.

Add additional BRINC Fluid FS to thin spots or gaps.
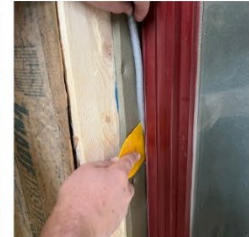
INSERT BACKER ROD

Insert foam backer rod into the interior joints between window and ThermalBuck. Insert no further than 3/4" into gap to allow for a strong seal.

INTERIOR SEAL

Fill interior joints with BRINC Fluid FS.

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Step 5:
Flash Penetrations & Damage

FLASH CIRCULAR PENETRATIONS

Apply generous 1/4" beads of BRINC Fluid in the joint. Add another bead on both the pipe and on the ThermalTight panel.

SMOOTH

Using a plastic-bladed putty knife, smooth each bead together to create a single, continous seal.
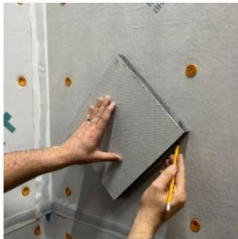
FLASH WIRE PENETRATIONS

Add a generous 1/2" bead of sealant in the joint around the wire, making sure to cover both the wire and ThermalTight panel.

SMOOTH

Using a plastic-bladed putty knife, smooth the bead around the wire and ThermalTight panel to create a single, continous seal.
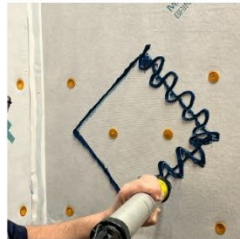
REPAIR MAJOR DAMAGE

Cut repair block oversize to replace any damage larger than 1".

Trace block on wall and cut out ThermalTight panel.

CUT & INSERT REPAIR BLOCK

Remove debris and insert repair block into opening and ensure snug fit.
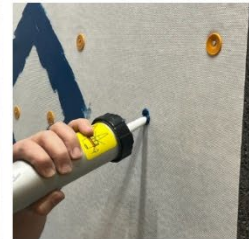
FASTEN & SEAL

Fasten repair block with corrosion proof ring shank nails with button caps.

Add BRINC Fluid FS in the joint and add a 1/2" bead in an S-pattern across the panel and repair block.
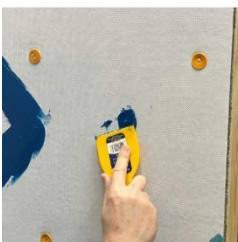
SMOOTH

Using a plastic-bladed putty knife, smooth each bead together to create a single, continous seal.

REPAIR MAJOR DAMAGE

Fix any holes or punctures up to 1" with a generous amount of BRINC Fluid FS.

SMOOTH

Using a plastic-bladed putty knife, smooth the sealant to create a single, continous seal.

Note: Total surface area of seal should be at least one sq. inch.