BARRICADE
BUILDING PRODUCTS

THERMO-BRACE® & GUARD

INSTALLATION GUIDE

TABLE OF CONTENTS

BARRICADE® PRODUCTS

THERMO-BRACE®

BARRICADE® THERMO-BRACE®

Thermo-Brace structural sheathing provides racking resistance and may be used as an alternative corner bracing method with structural ratings equivalent or better than OSB.

BARRICADE® THERMO-BRACE® S.I.B.

An all-in-one, insulated, structural, AWRB solution, Thermo-Brace S.I.B. is the ultimate defense against the elements. Versatile, lightweight and superior in strength to OSB, Thermo-Brace S.I.B. combines the insulative power of BASF Neopor® GPS with the strength and racking resistance of Barricade Thermo-Brace to deliver the toughest insulation solution on the market.

BARRICADE® THERMO-BRACE® GUARD

BARRICADE® THERMO-BRACE® SIB GUARD

Patent-pending Barricade Thermo-Brace GUARD and SIB GUARD is an energy-efficient, structural sheathing that wraps around the corner of a structure, creating a complete enclosure that joins two separate walls into one continuous unit, while providing structural, weather resistant, air barrier and continuous insulation benefits. Thermo-Brace GUARD and SIB GUARD stops air leaks and moisture penetration at corners and eliminates the need for corner flashing, saving time and money for builders, architects, contractors, and homeowners.

SPECIFICATION OVERVIEW

	Codes		Composition	Standard Sizes	Optional Sizes	Sheets/ Pallets	Thickness	Required Fasteners
BARRICADE THERMO-BRACE	*Green*	TER 1507-07	High-quality, long-fibered, specially treated water and weather-resistant plies. Plies are pressure laminated. A special water-resistant adhesive is used.	48" x 96" 48 ¾" x 96" 48" x 108" 48 ¾" x 108"	48" x 120" 48 ¾" x 120" 48" x 132" 48 ¾" x 132" 48" x 144" 48 ¾" x 144"	400	0.075"	1 ¼" Galvanized roofing nails, or 16-gauge, 1" min. crown staples with 1 ¼" leg length Red & Green = Structural up to 16" O.C. Blue = Structural up to 24" O.C.
	Red	TER 1507-08				315	0.095"	
	Blue	TER 1507-09				275	0.120"	
BARRICADE THERMO-BRACE S.I.B. – R3	*Green*	TER 1709-07	Barricade® Thermo-Brace™ with BASF Neopor® GPS	48" x 96" 48" x 108" 48" x 120"		70	⅝"	Foam Inward: 1 ¾" x 11 ga. Smooth Shank Roofing Nail
	Red	TER 1703-16						
BARRICADE THERMO-BRACE S.I.B. – R5	*Green*	TER 1709-07	Barricade® Thermo-Brace™ with BASF Neopor® GPS	48" x 96" 48" x 108" 48" x 120"		40	1 ⅛"	Foam Inward: 1 ¾" x 11 ga. Ring Shank Roofing Nail
	Red	TER 1703-16						

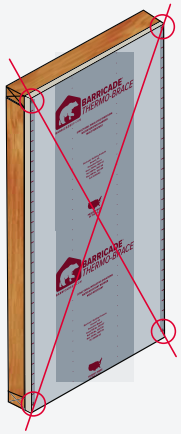
	Codes		Composition	Standard Sizes	Sheets/ Pallets	Thickness	Required Fasteners
BARRICADE THERMO-BRACE GUARD	*Green*	TER 1507-07	High-quality Long-fibered specially treated water and weather, resistant plies	66" x 96" 66" x 108" 66" x 120" *Custom Lengths Available	250	0.075"	1 ¼" Galvanized roofing nails, or 16-gauge, 1" min. crown staples with 1 ¼" leg length Red & Green = Structural up to 16" O.C. Blue = Structural up to 24" O.C.
	Red	TER 1507-08			200	0.095"	
	Blue	TER 1507-09			8', 9' = 150 10' = 135	0.120"	
BARRICADE THERMO-BRACE S.I.B. GUARD	*Green*	TER 1709-07	Barricade® Thermo-Brace™ SIB Guard with BASF Neopor® GPS	R3 65 ⅜" x 96" R3 65 ⅜" x 120" R3 65 ⅜" x 108" R5 66 ⅜"x 96" R5 66 ⅜"x 108" R5 66 ⅜"x 120"	R3: 70 R5: 40	R3: 5/8" R5: 11/8"	Foam Inward: R3: 1 ¾" x 11-ga. smooth-shank roofing nail R5: 1 ¾" x 11-ga. ring-shank roofing nail
	Red	TER 1703-16					

*For Foam Outward, check the TER Report

THERMO-BRACE® INSTALLATION

FOR
BARRICADE® THERMO-BRACE®
BARRICADE® THERMO-BRACE S.I.B. – R3
BARRICADE® THERMO-BRACE S.I.B. – R5

1

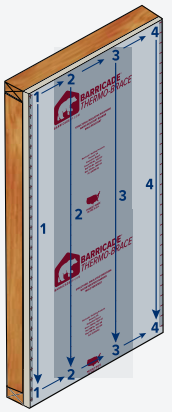


DO NOT fasten the four corners first. In order to prevent gaps or rippling, it's important to move horizontally, from one side of the panel to the other, when installing.

2

Starting at the top left of the panel, begin fastening from top to bottom following the printed fastener schedule (every 3").

3



Moving across the panel, attach fasteners at the top and bottom of the panel until you reach the next stud. (Note: when using staples, it's important to fasten them in a parallel direction to the stud.)

4

Fasten panel in numerical order repeating the procedure described in steps 2 and 3. Continue until the Thermo-Brace panel is properly secured to the frame.

SEAMS & JOINTS

48" sheets should have a slight gap of approximately ⅛" between panels at the seams. 48 ¾" sheets are to be overlapped ¾".

For use as water-resistive barrier (WRB) noted in IRC section R703.2 and IBC section 1404.2, use Barricade® Seam Tape butt on joints and seams. Overlapped seams do not require tape for use as a WRB.

FOR THERMO-BRACE S.I.B.

Weather-resistant barrier on both sides allows for install with foam side in or out.

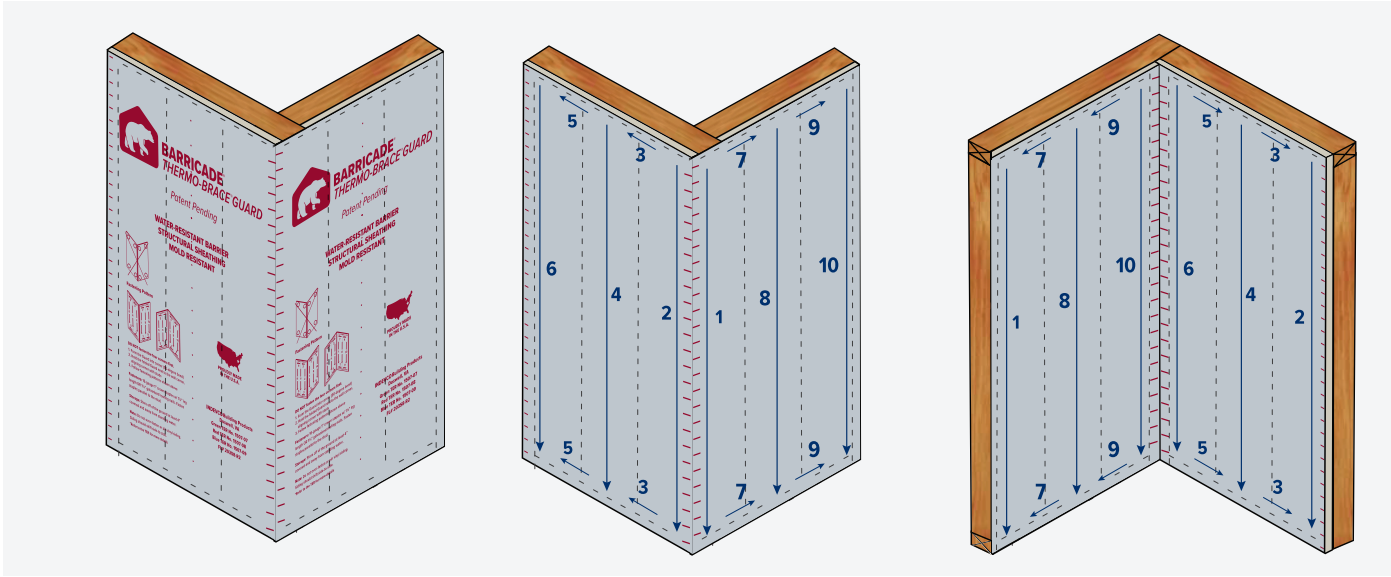
R3
Foam Inward:
1 ¾" x 11 ga. Smooth Shank Roofing Nail

R5
Foam Inward:
1 ¾" x 11 ga. Ring Shank Roofing Nail

*For Foam Outward, check the TER Report

THERMO-BRACE® GUARD INSTALLATION

FOR
BARRICADE® THERMO-BRACE® GUARD



1. Form the Guard into corner (90-degree bend)
2. Hold the folded Guard next to the wall corner, aligning corner with studs
3. Fasten with roofing nails one side of the Guard at the wall corner from top plate to bottom plate along the corner stud every 6” ensuring that the opposing side of the guard maintains contact with the wall during fastening (keep corner tight)
4. Fasten the 2nd (opposing) side of the Guard (using staggered) printed fastener locations from the top plate to the bottom plate along the corner stud
5. Proceed along the 2nd side fastening into the top and the bottom plate every 3” until reaching the next stud.
6. Fasten from the top plate to the bottom plate of the stud every 3”
7. Proceed along the 2nd side fastening the into the top and bottom plate every 3”
8. Fasten the final stud on the 2nd side from top plate to bottom plate every 3”
9. Return to the first side and continue fastening along the top and bottom plates and into the studs every three inches working from the corner along the surface of the wall.

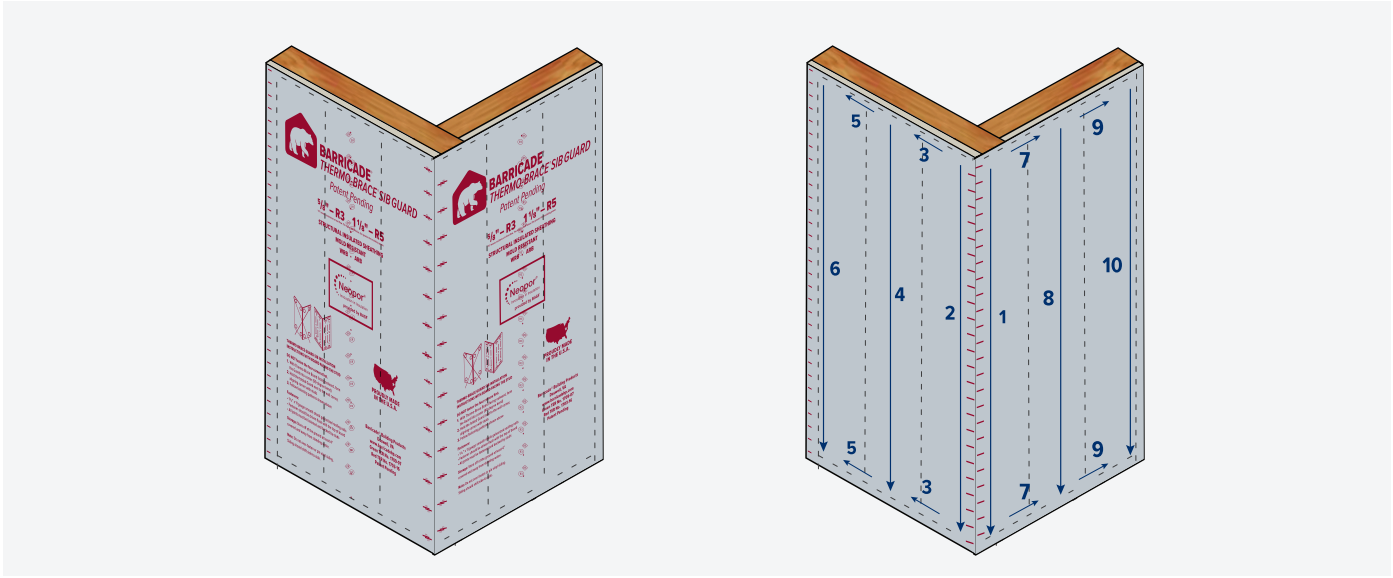
INSTALLATION TIPS/NEEDS

California Corner at both exterior and interior to allow for siding to hit to stud >1.5” from corner

If the installation is going to be overlapped when installing on the final stud the next sheet should be in place so that a single set of fasteners can be used at the transition.

THERMO-BRACE® SIB GUARD INSTALLATION

FOR
BARRICADE® THERMO-BRACE® GUARD SIB



1. Form the SIB Guard into corner (90-degree bend), insuring that the foam is not damaged in the process

2. Hold the folded SIB Guard next to the wall corner, aligning corner with studs

3. Fasten with roofing nails one side of the SIB Guard at the wall corner from top plate to bottom plate along the corner stud every 6” ensuring that the opposing side of the guard maintains contact with the wall during fastening (keep corner tight), fasteners must be offset from the outer corner of the SIB guard by the thickness of the material (5/8” for R-3, 11/8” for R-5) to ensure that the fasteners hit the studs (Fastener marks printed for R3 & R5 Boards)

4. Fasten the 2nd (opposing) side of the SIB Guard (using staggered) printed fastener locations from the top plate to the bottom plate along the corner stud

5. Proceed along the 2nd side fastening into the top and the bottom plate every 3” until reaching the next stud.

6. Fasten from the top plate to the bottom plate of the stud every 3”

7. Proceed along the 2nd side fastening the into the top and bottom plate every 3”

8. Fasten the final stud on the 2nd side from top plate to bottom plate every 3”

9. Return to the first side and continue fastening along the top and bottom plates and into the studs every three inches working from the corner along the surface of the wall.

INSTALLATION TIPS/NEEDS

California Corner at both exterior and interior to allow for siding to hit to stud >1.5” from corner

If the installation is going to be overlapped when installing on the final stud the next sheet should be in place so that a single set of fasteners can be used at the transition.

OTHER DETAILS:

All installation instructions and procedures contained within this brochure are recommended by Barricade Building Products and should be followed. Failure to follow these instructions and procedures may compromise the integrity of the product and impact its performance.

All Barricade Building Products are manufactured to meet the full intent of all applicable building codes and their governing bodies.

Barricade Thermo-Brace is a weather-resistive barrier (WRB) designed to provide a secondary line of defense against bulk water penetration. It is not designed or intended for use as a primary waterproofing membrane.

Wind-driven rain can penetrate exterior sidings/cladding such as vinyl, wood, brick, aluminum, hardboard, cementitious, etc. Vinyl and aluminum siding are manufactured with built-in weep holes to allow proper drainage of water that gets past it. Wood, hardboard, and brick exteriors are porous, allowing water to be absorbed into them. Most brick facades also have weep holes built into the wall system to promote water drainage.

Any rips, tears, breaks, holes, etc. that happen during normal construction should be repaired by taping or patching. Other holes, gaps, or cracks created in the exterior wall around items such as faucets, dryer vents, electrical outlets, etc. should also be properly taped, flashed, and sealed. Any of these occurrences that go unrepaired will diminish the products performance and contribution to the overall water-resistance of the wall system.

It's always a wise construction practice to use and integrate properly installed flashings around all window and door openings as well as other exterior penetrations as part of an overall design strategy to control moisture movement and transport. Please contact your builder or Barricade Building Products for more details.

The information contained in this installation guide is to the best of our knowledge, true and accurate and is presented in good faith. Barricade Building Products assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents.

Contact Barricade Building Products for further information or technical support at 877-832-0333.

BARRICADE
BUILDING PRODUCTS