PERMA “R” PRODUCTS

WE’VE GOT YOU COVERED

Structural Sheathing & Flashing Tape Installation Guide

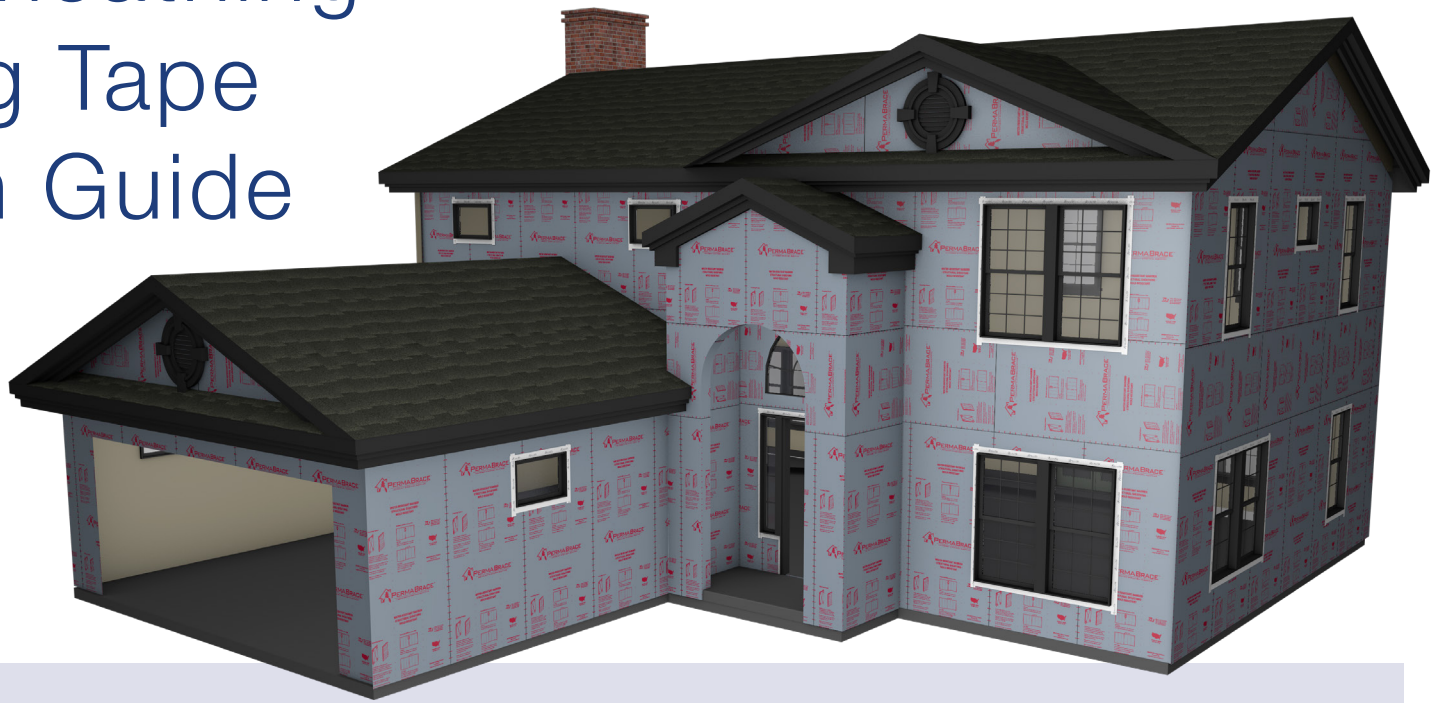

TABLE OF CONTENTS:

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PERMA "R" PRODUCTS

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PermaBrace

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

PermaBrace™ SIB
Structural Insulated Board

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

Flashing

Straight PermaTak
Professional Grade Flashing

Extremely aggressive, self-adhering flashing membrane designed to protect windows and doors from moisture penetration.

Stretchable ProTak
Professional Grade Butyl Flashing

A highly stretchable flashing tape with an aggressive, slower-acting butyl rubber adhesive that conforms around radii and corners while providing maximum protection from water intrusion.

Additional Materials

Sheathing Tape
Contractor Pro Grade

A thin, strong film-coated tape with a cold-weather adhesive system for added protection against energy-robbing air infiltration and exterior moisture penetration.

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PERMA "R" PRODUCTS

SPECIFICATION OVERVIEW

	Codes	Composition	Standard Sizes	Optional Sizes	Sheets/Pallet	Thickness	Required Fasteners
PermaBrace	**Green** TER 1507-07 **Red** TER 1507-08 **Blue** TER 1507-09	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 3/4" x 96" 48" x 108" 48 3/4" x 108"	(Available upon request) Up to 60" wide & 144" long	400 315 275	0.075" 0.095" 0.120"	1 1/4" Galvanized roofing nails, or 16-gauge, 1" min. crown staples with 1 1/4" leg length **Red** & **Green** = Structural up to 16" O.C. **Blue** = Structural up to 24" O.C.
PermaBrace S.I.B.	**Green** TER 1507-07 **Red** TER 1507-08 **Blue** TER 1507-09	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 3/4" x 96" 48" x 108" 48 3/4" x 108"	(Available upon request) Up to 60" wide & 144" long	70 40 70 40 70 40	R3 R5 R3 R5 R3 R5	1 1/4" Galvanized roofing nails, or 16-gauge, 1" min. crown staples with 1 1/4" leg length Red & Green = Structural up to 16" O.C. Blue = Structural up to 24" O.C.

	Composition	Roll Length	Roll Widths	Rolls Per Case	Total Thickness	Tensil Strength	Application Temp. Range	Operating Temp. Range	Warranty	Nail Sealability	Shelf Life	UV Exposure
PermaTak Straight	Non-asphaltic, copolymer flashing tape using pressure-sensitive adhesive	75'	4" 6" 9"	12 8 4	15 mils	–	-30˚F – 150˚F	–	20-Year System Limited Lifetime Warranty	PASS	18 months	180 Days
ProTak Strecthable	Polyolefin film backing, butyl-based adhesive, polyethylene liner	75'	6" 8"	1	50 mils	>400psi	40˚F – 180˚F	-30˚F – 200˚F	20 Year System Limited Lifetime Warranty	PASS		Up to 365 Days
Sheathing Tape	Polypropylene film coated with a cold-weather acrylic adhesive system	165'	1 7/8" 3"	16	3 mils	30 lb./in.	14˚F – 122˚F	-40˚F – 212˚F	20 Year System Limited Lifetime Warranty	PASS	12 months	180 Days

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PERMABRACE®

INSTALLATION

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 PermaBrace® panel is properly secured to the frame.

Seams & Joints

48" sheets should have a slight gap of approximately 1/8" between panels at the seams. 48 3/4" sheets are to be overlapped 3/4".

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

For PermaBrace S.I.B.

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

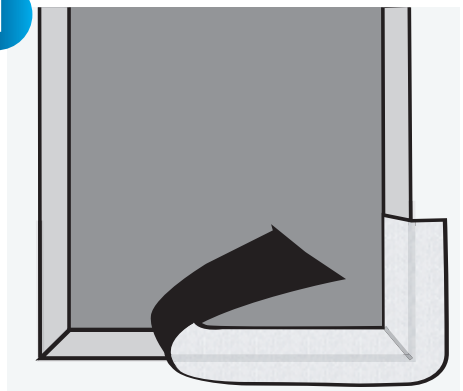
R3 Foam Outward: 15/16" x 1 3/4" Leg 16 ga. Staples
Foam Inward: 1 3/4" x 11 ga. Smooth Shank Roofing Nail

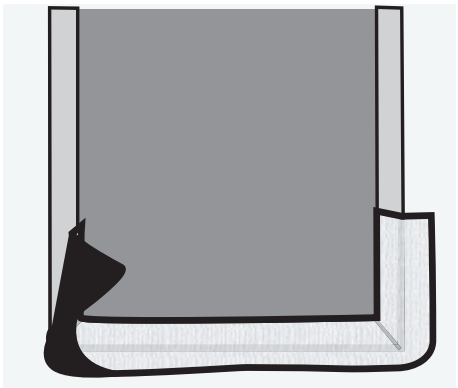
R5 Foam Outward: 15/16" x 2" Leg 16 ga. Staples
Foam Inward: 1 3/4" x 11 ga. Ring Shank Roofing Nail

Flashing Tape

WINDOW & DOOR INSTALLATION

1



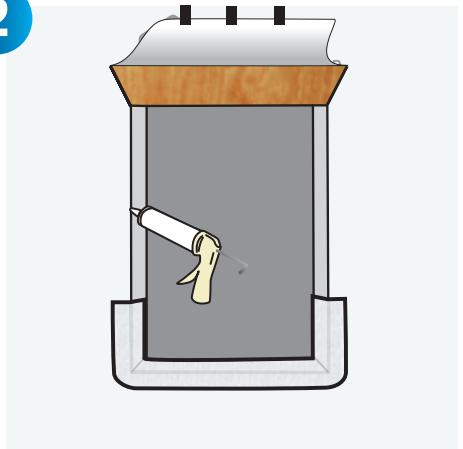


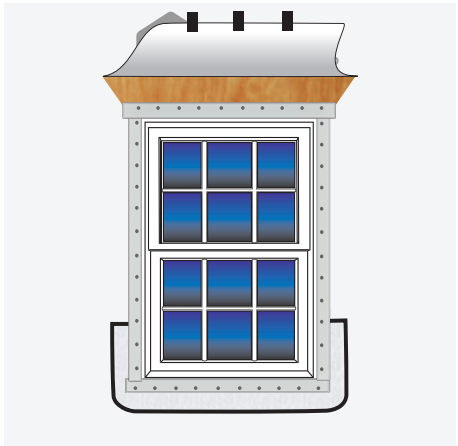
ProTak® Stretchable Flashing Tape

Prepare sill flashing by cutting ProTak® Flashing tape at least 12” longer than the width of the rough opening. Install sill flashing by removing the release paper, centering sill flashing on sill framing stud, and adhering into rough opening. The back edge of ProTak® should extend to inside edge of sill framing stud and at least 6” up each jamb framing stud. (Sill flashing should not wrap onto the inside of wall.) DO NOT stretch material along the sill or jamb. When Building Wrap or conventional building paper is used as a weather-resistive barrier (WRB) over wall sheathing prior to window and flashing installation, ProTak® should be applied over the WRB after it has been properly cut and folded in and around the window rough opening.

NOTE: If a WRB will be applied after the window and flashing have already been installed, be sure not to fasten the lower edge of the flashing so that the WRB may be slipped underneath the flashing in weatherboard or shingle lap fashion (i.e., top layer overlapping bottom layer).

2





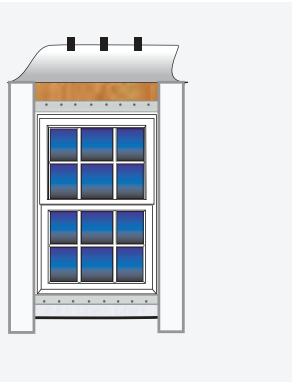
Window and Door Installation

Before installing the window, either (A) apply a continuous bead of sealant to the backside (interior) of the mounting flange near the outer edge, or (B) apply a continuous seal to the rough window opening at a point to assure contact with the backside (interior) of the mounting flange. DO NOT seal along bottom. Install window according to manufacturer’s installation procedures. Use of a premium sealant is recommended.

Flashing Tape

WINDOW & DOOR INSTALLATION

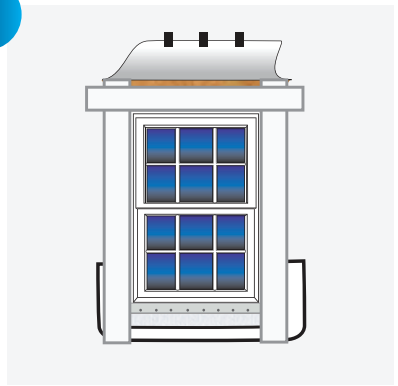
3

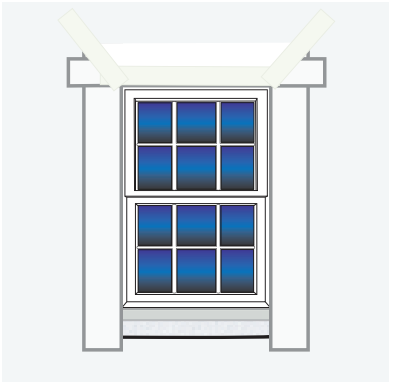


Side Jam Flashing

Utilizing a roller to provide firm, consistent pressure, apply PermaTak® window flashing along vertical sides of the opening. Flash over the side window flanges. Extend the flashing a minimum of 3” beyond the sill flashing already in place and extend the flashing you’re using a minimum of 3” beyond the top of the opening, so that it projects beyond the head flashing to be applied later.

4

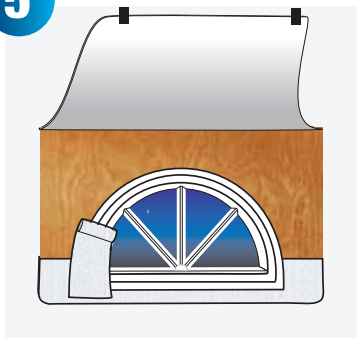


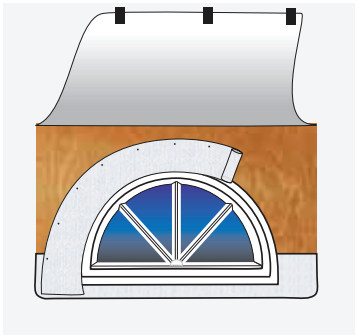


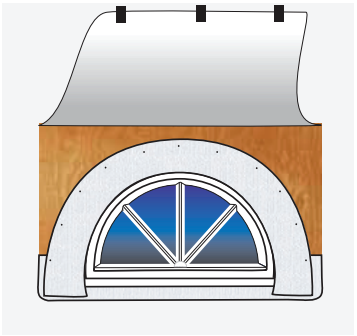
Head Flashing

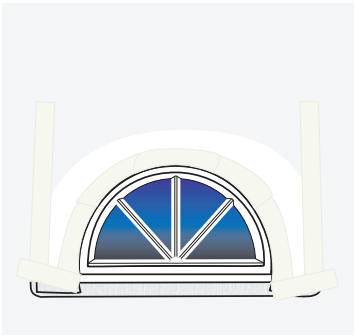
Affix the bottom of the head flashing over the mounting flange. Be sure to extend the flashing beyond each jamb flashing. Secure in place by applying pressure. Unattach building wrap and apply over head flashing as shown. Tape all seams and joints.

5









Note: This recommendation refers to the most commonly used types of windows (surface mounted). For other types of frames, special attention should be paid to window manufacturer instructions.

Circular Windows

Follow above instructions for proper installation pro to head flashing installation. Install circular-top windows according to window manufacturers installation guidelines, then follow instructions below to complete the process.

Measure the circular portion of the window and add 12” to this number. Cut flashing to this length for the head flashing. Remove approximately 20” of release paper and position flashing tightly along the first edge of round window; press firmly into place.

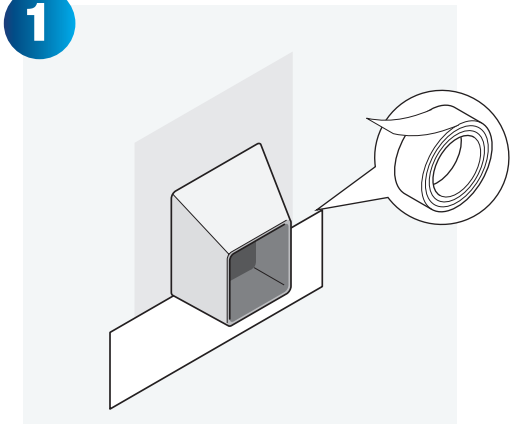
Continue removing release paper and conform PermaTak® along entire circular portion of window. Use PermaTak® Seam Tape or mechanical fasteners (i.e. nails, staples, or screws) to temporarily hold top edge of head flashing to wall. PermaTak’s adhesive bond will strengthen over time. Both ends of head flashing should overlap jamb flashings by at least 6”.

Flashing Tape

Penetrations Installed *Under* Building Wrap

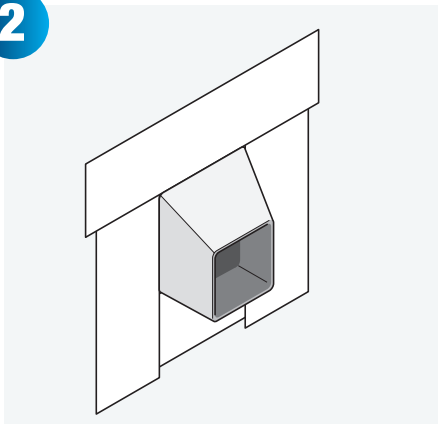
Square Penetration

1



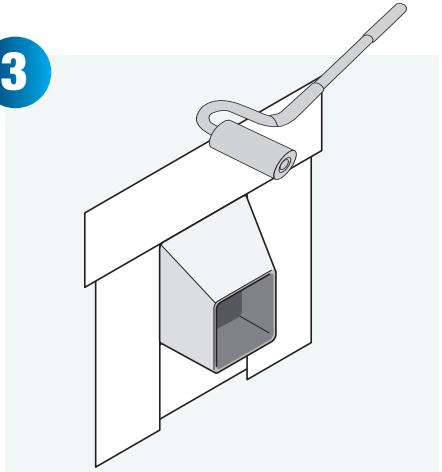
Apply flashing to the bottom of the penetration. We recommend using PermaTak® Straight or ProTak® Stretchable tape.

2



Apply flashing along the sides and then the top, shingling each layer.

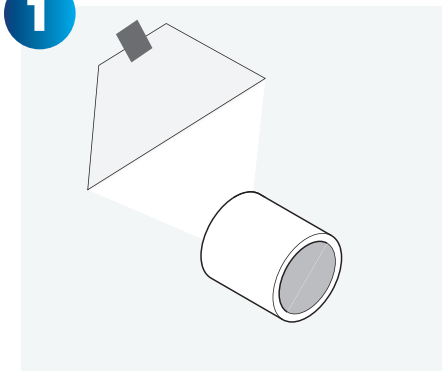
3



Use a roller to apply even pressure along the flashing, being sure to push out any air pockets that may have appeared. Perma R Products® suggests finishing with a premium commercial construction sealant to ensure a tight seal around the edges of the penetration.

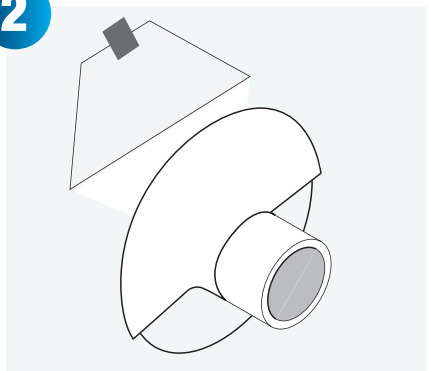
Round Penetration

1



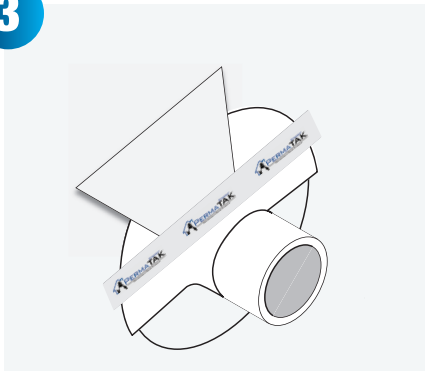
Cut two 45° angles and peel back Building Wrap above the penetration. Tip: Use PermaTak® to hold the flap up while not in use.

2



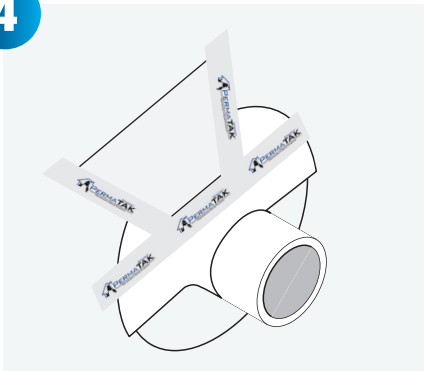
Apply ProTak® Strechable to the underside of penetration, shingling the above side after. Use a roller to apply even pressure along the flashing.

3



Replace building wrap flap over the flashing and tape across using PermaTak® Flashing Tape.

4



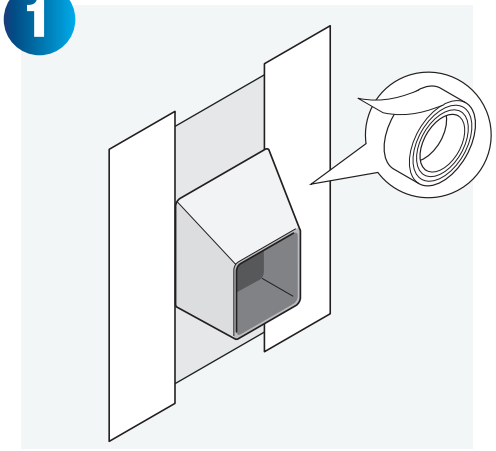
Tape over the 45° cuts using PermaTak® Flashing Tape.

Flashing Tape

Penetrations Installed *Over* Building Wrap

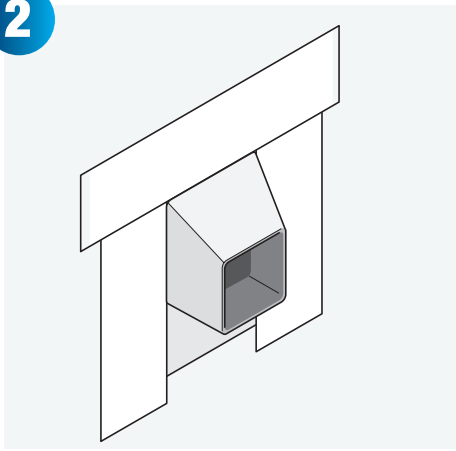
Square Penetration

1



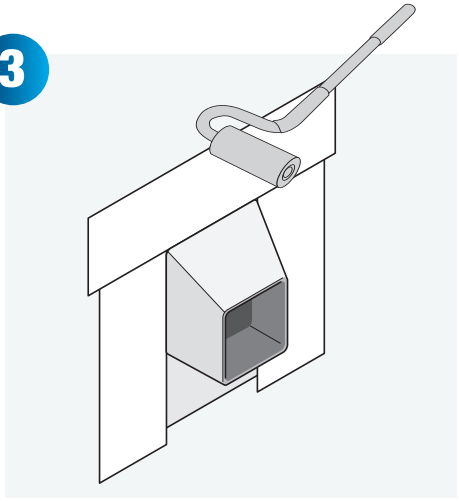
Apply flashing along the sides first, leaving the bottom unflashed. We recommend using PermaTak® Straight or ProTak® Stretchable Tape.

2



Next apply flashing over the top, shingling the side flashing.

3



Use a roller to apply even pressure along the flashing, being sure to push out any air pockets that may have appeared. Perma “R” Products® suggests finishing with a premium commercial sealant to ensure a tight seal around the edges of the penetration.

Other Details

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

All Perma "R" Products® are manufactured to meet the full intent of all applicable building codes and their governing bodies.

Perma "R" Product's PermaBrace® 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 Perma "R" 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. Perma "R" 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.

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