RAIN JACKET FLASHING SYSTEMS

Installation Manual
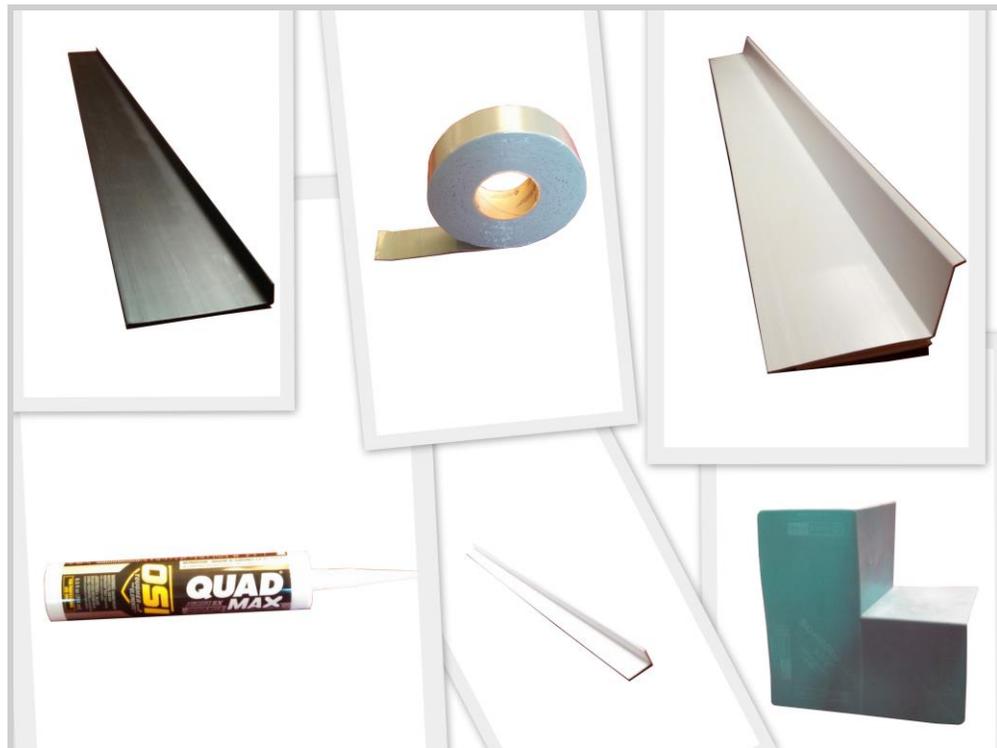
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Introduction

Rain jacket flashing system is a revolutionary new window installation technique that utilizes specific components to pre-flash the existing opening without removing the existing cladding when installing fin-less replacement windows.

Our patented installation products and method have been tested at an AAMA certified lab as well as field tested with many different cladding systems and has surpassed all testing guidelines with its ability to resist water and air penetration.

Benefits of the Rain jacket Flashing System

*Passes ASTM 1105 - E / AAMA 502 - 11 field water penetration resistance testing as outlined in Washington state's RCW 64.55.050

*Passes AAMA pressure tests equal to 120 MPH wind pushing 8" of rain per hour in lab testing

*Complies with IRC R703.8 flashing for windows and doors

*Does not rely on an exterior caulking bead to prohibit water penetration

*Can be integrated to an existing serviceable building envelope The window installation may help existing water penetration problems behind the building paper by diverting water at the head flashing

*A true air and water tight window installation will maximize the efficiency of the new replacement windows

*No exterior trim is needed, allowing for maximum flexibility (or customer preference in exterior design)

*This is the only installation for brick buildings that will pass pressure testing!

Components

RJ Sill Flashing

> *The sill flashing flashes water away from the bottom of the window opening and over the building paper*

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FIGURE 21.2   .055 PVC RJ Flashing. 3" x ½".
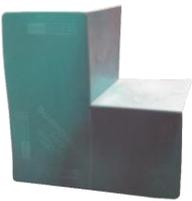
RJ CORNERS

> *The corners form a continuous barrier against water penetration at the critical corner areas*

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FIGURE 21.3   PVC RJ Corners 3 1/2" x 7".

RJ HEAD FLASHING

This integral head flashing deflects water from the head of the window as well as provides a receiver to accept and overlap the jamb flashing

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FIGURE 21.4   .055 PVC White RJ Head Flashing with Receiver 3" x 1 3/8" x 1/4".

RJ JAMB FLASHING

Jamb Flashing is used to flash water from the sides of the window and completes the waterfall layered effect of the flashing system

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FIGURE 21.5   .055 PVC RJ Flashing. 3" x ½".

RJ INTERIOR L

Interior L angle is used to create a back pan and bridge point for the membrane as well as help seal the window on the inside.

FIGURE 21.6   .055 PVC White L Angle ¾" x ½".

RJ ETERNABOND MEMBRANE

RJ Eternabond membrane is used as a sealant tape to seal and integrate the window flashing components as well as bond to the inside of the window

FIGURE 21.7 Micro sealant adhesive membrane

OSI Quad Max Sealant

OSI Quad Max Sealant is used to bond the flashing components to the sheathing as well as seal the interior and exterior of the window

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FIGURE 21.11   Quad Max Sealant

OSI Teq Foam

OSI Teq Foam is used for sealing gaps and cracks, holes and voids around windows and patio doors

FIGURE 21.14   . Low pressure polyurethane foam OSI Teq Foam

TOOLS

1. Sawzall

2. J Roller

3. Stapler

4. Snips

5. Utility Knife

6. Putty Knife

7. Pry bar

8. Skill saw

9. Chisel

10. Heat gun

11. Caulk gun

12. Teq Foam gun

Installation Instructions

1. Remove existing window from the opening by cutting around the opening rather than collapsing the frame. This will keep the building paper from being damaged as well as provide a guide for the sawzall when cutting siding nails.

2. Cut back interior liners if necessary to accommodate 1 3/8" head flashing and depth of window

3. Using a sawzall or other tool, cut nails of existing siding 3" around the perimeter of the window being careful not to damage the existing building paper. (TIP) Leave old window nail fin in place and put blade of sawzall on the inside of the old nail fin to keep blade away from ripping the existing building paper.

Cut Nails Behind Siding Around Perimeter
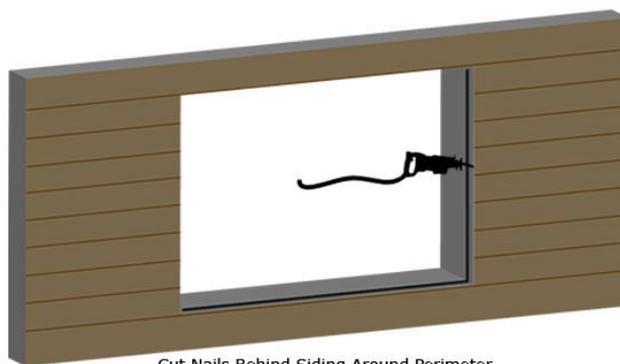
4. Cut RJ corner to fit window depth.

5. Apply a 3/8" bead of OSI Quad Max to the corner and install it behind the existing building paper to the sheathing.

6. Install sill flashing over the existing building paper.

7. Cut head flashing 3" in from each side to match width of window leaving the back leg 3" wider than the window on each side. Apply a 3/8" bead of OSI Quad Max to the back side of the head flashing and install it behind existing building paper.
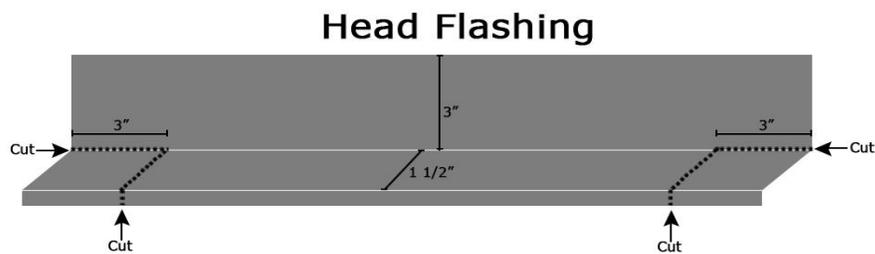
Head Flashing

Installation Instructions

Head Flash

3/8"
Bead Sealant

Back Side of Head Flashing

8. Cut upper ½" leg of jamb flashing 2" back. Apply a 3/8" bead of OSI Quad Max to the jamb flashing and install it behind the existing building paper.

Jamb Flashing

2"   Cut

Cut →

1/2"

3"
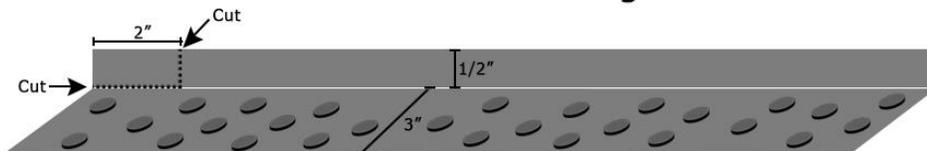
9. Apply Teq Foam to voids at liners as necessary

10. Install interior L angle against interior liners. Staple on 24" centers. Make sure the L angle will make at least a 1/4" bond to the interior window frame. Shimming of L angle may be required.

11. Apply Eternaprime to rough opening if necessary. (See general instructions)

12. Score the release paper on the membrane ½" on both sides with a knife. Remove release paper and apply RJ membrane along the back leg of the interior L angle. Pull the remaining release paper and install it to the jamb, sill, and head flashing pieces to integrate the flashing components. DO NOT REMOVE RELEASE PAPER ON THE EXPOSED SIDE EXCEPT AT THE ½" SCORED AREA AT THE L ANGLE.

Eternabond Tape

Score

DO NOT REMOVE RELEASE PAPER HERE	REMOVE RELEASE PAPER HERE
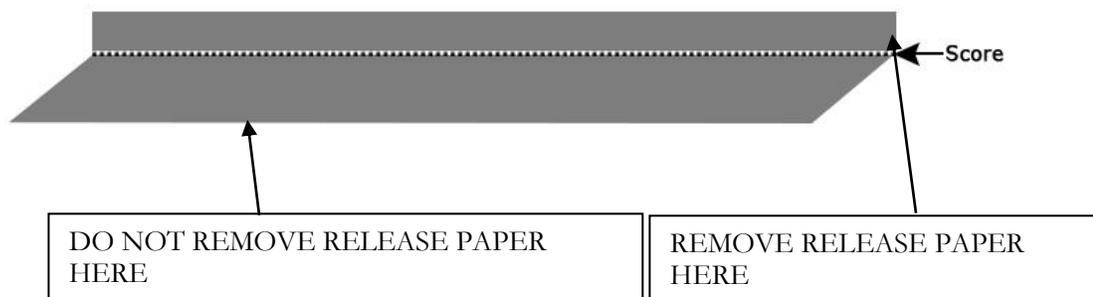
Installation Instructions

13. Heat membrane with heat gun. (Optional depending on temperature)

14. Apply ¼" bead of OSI Quad Max to the back leg of the inside L metal over the Eternabond membrane.

15. Install window into the opening screwing it to the framing from the inside.

16. Apply Teq Foam at the perimeter of the window if necessary.

17. Caulk exterior perimeter of window with OSI Quad Max.

18. Install Interior trim if necessary.

19. Caulk interior of window with OSI Quad Max if necessary.

General Tips

Rain jacket Flashing System is designed to adapt to almost all window and door types, building envelopes, and cladding systems. Please email us with any questions pertaining to your situation.

Expect 1.5 to 3 hours to remove and install your new window with this system

This system would be considered a difficult install compared to non flashing based installations and should be installed by an experienced carpenter or do it yourselfer.

Eternabond membrane should be installed on clean, dry surfaces that are free of frost. Wipe surface of sawdust, dirt, grease and other debris that could interfere with adhesion.

Priming is generally not required for adhering Eternabond membrane to most common building materials. However, adverse weather conditions or cold temperatures may require use of a primer to promote adhesion. Additionally, concrete, masonry, and fiber-faced exterior gypsum board require the use of Eternaprime.

When installing Eternabond membrane apply pressure along entire surface for a good bond using a J-roller or firm hand pressure.

Remove all wrinkles and bubbles by smoothing surface and repositioning as necessary.

DO NOT STRETCH ETERNABOND MEMBRANE when installing along sills or jambs. It is only intended to be stretched when covering corners or curved sections.

Eternabond membrane is a very sticky aggressive water proofing tape. **Pay careful attention not to remove release paper on the exposed side of the membrane except at the back ½" L angle per instructions**

Make sure to cut back the interior liners to accommodate the 1 3/8" head flashing projection. Most windows project 1 3/8" from the nail fin but if your window requires a larger throw we suggest to contact a local sheet metal shop to make the head flashing for you.

Prior to installing head, sill, and jamb flashing run a putty knife behind the siding to make sure any nails are not in the way of installing the flashing.

Eternabond Membrane must adhere to 1/4" of the inside of the window frame. Clamps can be used to help aid in creating the bond. Applying a small bead of Quad Max will ensure the seal.

Eternabond Membrane should be heated up with a heat gun in cold weather to help adhere to surface.

Head flashing and jamb flashing should be ordered 6" larger than the window dimensions and notched out with metal snips.

Windows should be measured to accommodate the flashing and membrane buildup at framing.

General Tips

Window will set approximately 1/16" to 1/8" away from the liner because of the interior seal. This is a big key to the system and usually can be hidden with an in interior caulk bead but in some cases interior trim may be needed.

Sticky trim, wood casing, drywall, cove molding, or colored L metal may be needed if liners are less than ½" to cover interior L metal back leg.

Lay metal shims at the bottom two outside corners to help slide the window into the opening and prevent ripping the membrane.

Shave off excess vinyl at the corners of the new windows.

Leave old nail fin in the wall system to help guide sawzall blade away from building paper.

For more information, installation support, and product orders

Contact

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