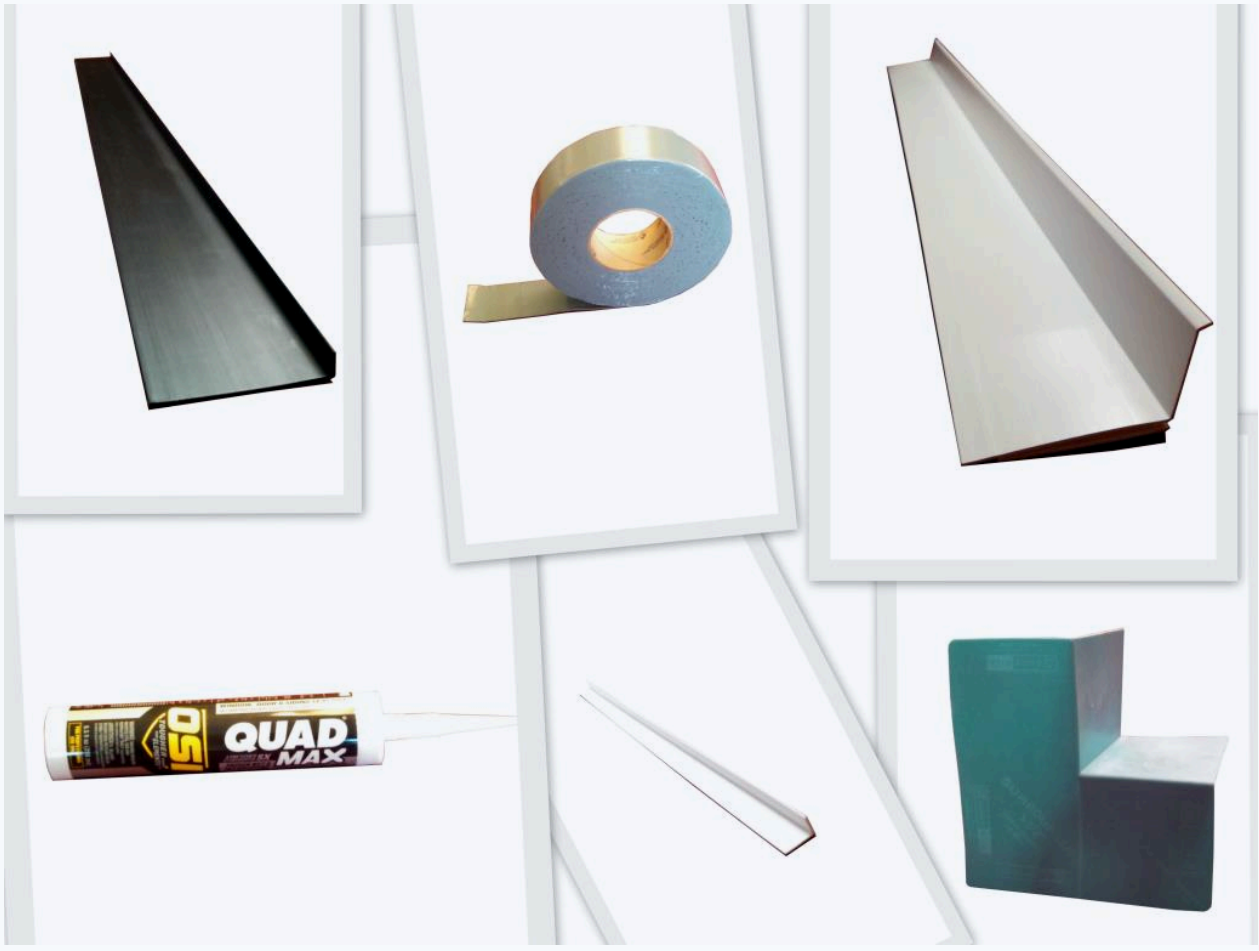
RAIN JACKET

FLASHING SYSTEM

VOLUME 1

Installation Manual

Installation Manual, Volume 1 · Rain Jacket Flashing System



www.RainJacketFlashings.com

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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 finless 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 and stucco 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

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

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

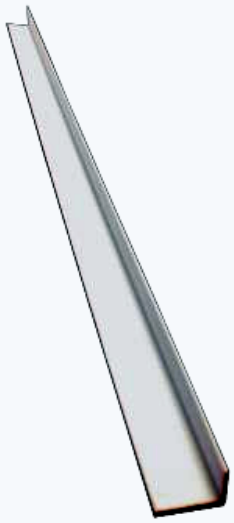
FIGURE 21.4 .055 PVC White RJ Head Flashing with Receiver 3” x 1 3/8” x 1/4”.



RJ JAMB FLASHING

RJ jamb flashing is used to flash water from sides of the window and integrates to the existing building envelope.

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 micro sealant tape as well as help seal the window on the inside.

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



RJ MICRO SEALANT TAPE

RJ Micro Sealant Tape is used as a sealant tape to seal and integrate the window flashing components.

FIGURE 21.7 Micro sealant adhesive membrane



OSI QUAD MAX SEALANT

Quad Max is used to bond the window to the interior L flashing as well as create an exterior sealant bead.

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

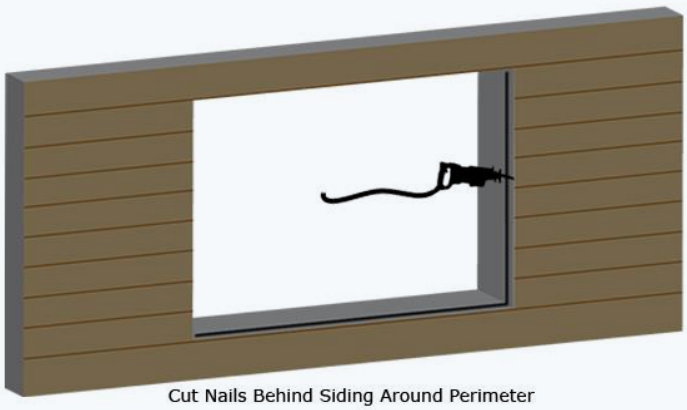
Have the following tools on hand before starting the installation.

- [ ] 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

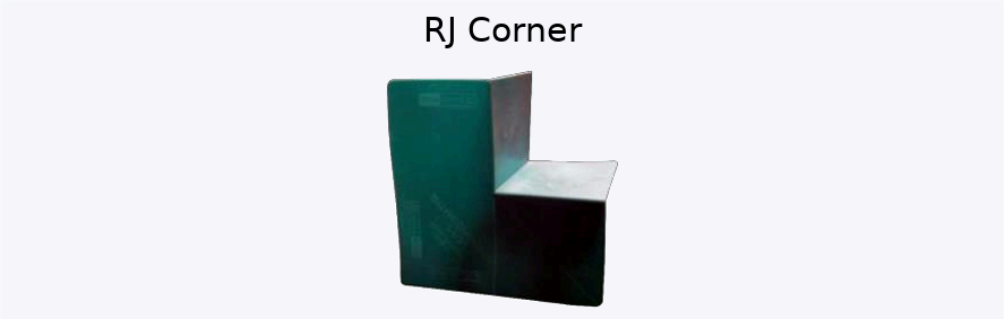
1. Remove existing window from the opening by cutting around the opening rather than collapsing the frame. This will keep the building paper from being damaged as well as provide a guide for the sawzall when cutting siding nails.
2. Cut back interior liners if necessary to accommodate 1 3/8” head flashing 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. This step may not be achieved if the existing building paper is heavily degraded. Damage to the existing building paper is possible, especially with heavily degraded building paper.



Cut Nails Behind Siding Around Perimeter

4. Cut RJ corner to fit window depth.

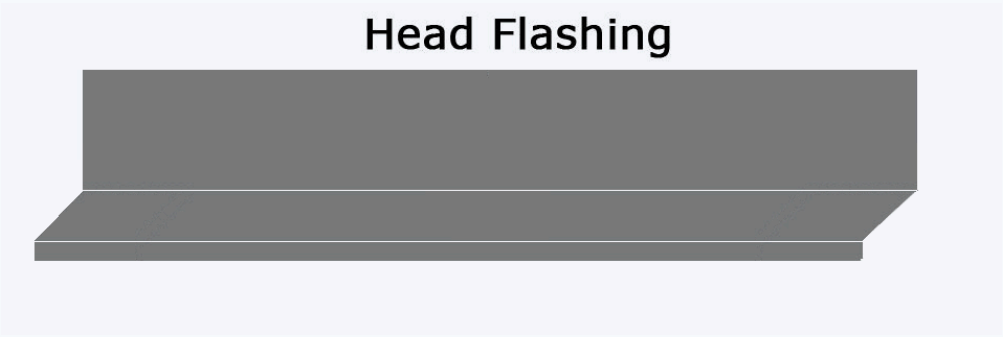


Installation Instructions continued

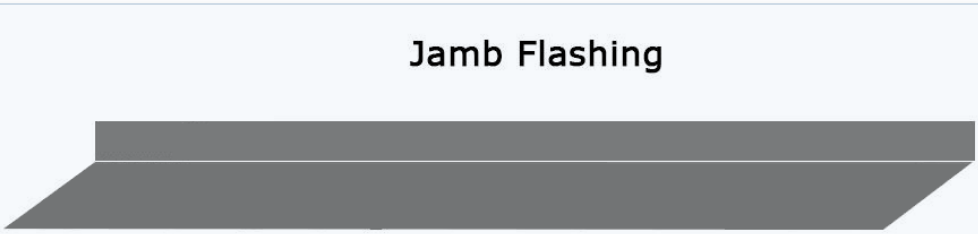
5. Apply a 3/8” bead of OSI Quad Max to the corner and install it behind the existing building paper to the sheathing.
6. Install sill flashing over the existing building paper.



7. Install head flashing behind existing building paper.



8. Install new jamb flashing behind building paper.



Installation Instructions continued

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.

Interior L Angle



11. Apply Eternaprime to rough opening if necessary. (See general instructions)
12. Install micro sealant tape over interior L angle to jamb and sill flashing to create a 360 degree pan.

Micro Sealant Tape



13. Heat micro sealant tape with heat gun. (Optional depending on temperature)
14. Apply ¼” bead of OSI Quad Max to the back leg of the inside L metal.
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 interior sealant.

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.

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

WARNING 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.

TIP Micro sealant tape 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.

TIP Priming is generally not required for adhering micro sealant tape 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.

TIP When installing micro sealant tape apply pressure along entire surface for a good bond using a J-roller or firm hand pressure.

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

WARNING DO NOT STRETCH MICRO SEALANT TAPE when installing along sills or jambs. It is only intended to be stretched when covering corners or curved sections.

TIP 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 contacting a local sheet metal shop to make the head flashing for you.

TIP 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.

TIP Micro sealant tape should be heated up with a heat gun in cold weather to help adhere to surface.

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

WARNING 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 interior caulk bead but in some cases interior trim may be needed.

TIP 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.

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

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

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

RAIN JACKET

FLASHING SYSTEM

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