Window Installation

- reduce the load (head flashings, overhangs, drips, kerfs)
- integrate control layers
- isolate the window from the wall cavity
- assume imperfection:
  - provide redundancy
  - provide drainage
Residential Flanged Windows
Flush install

Step 1

Fold wall sheet WRB up at head

Cut wall sheet WRB at jambs

Residential Flanged Windows
Flush install

Step 2

Line jambs with self adhered membrane flashing

Window shim. Recommend 1/8” minimum.

Flexible membrane pan flashing returned up back dam angle
Residential Flanged Windows
Flush install
Residential Flanged Windows
Flush install
Step 3

Residential Flanged Windows

Flush install

- Self-adhered membrane flashing at head
- Flanged window assembly
- Self-adhered membrane flashing at jambs
- Full interior perimeter sealant joint
- Flanged window assembly
- Do not caulk or seal the sill. Sill pan must be allowed to drain to the exterior
Residential Flanged Windows
Flush install
Residential Flanged Windows Flush install
Step 4

Fold and tape WRB over self adhered membrane flashing at head

Head flashing recommended for all panel claddings, as well as all vertically mull windows. Optional for masonry veneer and windows with trim that will provide a secondary flashing above the window.

Residential Flanged Windows Flush install
Residential Flanged Windows
Flush install
Residential Flanged Windows
Flush install

Masonry
- masonry veneer
- masonry lintel and membrane through wall flashing (taped top edge to wall WRB)
- optional additional head flashing
- backer rod and sealant joint
- window pan flashing drains into the masonry cavity
Fiber Cement

- fiber cement panel siding on 3/8” minimum furring strips

- allow fiber cement panel siding to drain out over window head flashing

- backer rod and sealant joint between window frame and panel siding at the jambs and sill

- fiber cement panel siding on 3/8” minimum furring strips

- window pan flashing is drained in behind the fiber cement panel siding

Residential Flanged Windows
Flush install
Residential Flanged Windows

Flush install

Composite Metal Panel

drained composite metal cladding panel

allow composite metal panel to drain out over window head flashing

backer rod and sealant joint between the window and the panel edge closure (based on panel system design) at the jambs and sill

drained composite metal cladding panel

window pan flashing is drained in behind the composite metal cladding panel
Residential Flanged Windows Bucked-out

Step 1

Fold wall sheet WRB up at head

Cut wall sheet WRB at jambs

Continuous back dam blocking. Recommend 3/8” to 3/4” in height placed 3/8” inboard of interior edge of storefront frame.

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Step 2

- Bevel top edge of wood blocking
- Line rough opening with wood blocking
- Sheet WRB skirt at sill taped with self-adhered membrane flashing

Residential Flanged Windows Bucked-out
Residential Flanged Windows Bucked-out
Step 3

Install membrane flashing at jambs. Seal from wall sheet WRB and return into the rough opening.

Window shim. Recommend 1/8" minimum.

Flexible membrane pan flashing returned up back dam angle.
Residential Flanged Windows Bucked-out
Residential Flanged Windows Bucked-out

- Self adhered membrane flashing at head
- Flanged window assembly
- Self adhered membrane flashing at jambs
- Full interior perimeter sealant joint
- Self adhered membrane flashing at jambs
- Flanged window assembly
- Do not caulk or seal the sill. Sill pan must be allowed to drain to the exterior
Residential Flanged Windows

Bucked-out

Fold and tape WRB over self adhered membrane flashing at head

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Residential Flanged Windows Bucked-out
Step 1

- Fold wall sheet WRB up at head
- Recessed framing at window rough opening
- Cut wall sheet WRB at jambs
- Recessed framing at window rough opening
- Continuous back dam blocking. Recommend 3/8” to 3/4” in height placed 3/8” inboard of interior edge of storefront frame.
Step 2

Residential
Flanged
Windows
Recessed

Install membrane flashing at jambs. Seal from wall sheet WRB and return into the rough opening.

Window shim. Recommend 1/8" minimum.

Flexible membrane pan flashing returned up back dam angle.
Step 3

- Flexible self adhered membrane flashing recommended at corners
- Flanged window assembly
- Self adhered membrane flashing at jambs and head
- Full interior perimeter sealant joint
- Self adhered membrane flashing at jambs
- Flanged window assembly
- Do not caulk or seal the sill. Sill pan must be allowed to drain to the exterior

Residential Flanged Windows

Recessed
Step 4

Fold and tape WRB over self adhered membrane flashing at head

Residential Flanged Windows

Recessed
Stucco

- Stucco cladding
- Drainage mat
- Infill blocking and trim at window head
- Flashing at head

- Return stucco in at jambs and sill. Pad out the returns as required with non-moisture sensitive materials such as cellular PVC.

- Slope stucco to the exterior at sill

- Window pan flashing drains in behind the stucco cladding

Residential Flanged Windows
Recessed
Step 1

Preformed Corner, bed in sealant

Self-Adhered membrane "skirt". Leave release liner on bottom portion to facilitate shingle lap with WRB

Residential Flanged Windows
California Style

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Residential Flanged Windows
California Style
Residential Flanged Windows
California Style

Line jambs with self adhered membrane flashing, lapping over preformed corners

Window shim. Recommend 1/8” minimum.

Membrane pan flashing
Residential Flanged Windows
California Style
Step 3

- Flange of window bed in sealant at head and jambs
- Flanged window assembly
- Self adhered membrane flashing at jambs
- Self adhered membrane flashing at jambs
- Flanged of window bed in sealant
- Flanged window assembly
- Do not caulk or seal the sill. Sill pan must be allowed to drain to the exterior

Residential Flanged Windows
California Style
Residential Flanged Windows
California Style
Residential Flanged Windows
California Style

Apply membrane head flashing, sealing flange to the face of the sheathing.

Apply additional sealant over flange at jamb, tool smooth.
Residential Flanged Windows California Style
Residential Flanged Windows
California Style

Step 5

- Membrane head flashing
- Bedding joint of sealant behind flange
- Full perimeter interior sealant joint; use backer rod for joints greater than 1/4 inch
Residential Flanged Windows
California Style
Non-flanged Windows
Non-flanged Windows

**Jamb**

- Full interior and exterior backer rod and sealant joint between the window and the membrane lined rough opening

- Exterior sealant beauty bead between composite metal cladding and window

**Sill**

- Full interior backer rod and sealant joint between the window and the membrane lined back dam angle

- Full exterior backer rod and sealant joint between the window and the membrane lined rough opening

- Exterior sealant beauty bead between composite metal cladding and window

- Optional metal sill flashing integrated with the composite metal cladding panel to reduce the potential for rainwater entry in behind the cladding assembly
Non-flanged Windows
Non-flanged Windows
Non-flanged Windows
Non-flanged Windows
Non-flanged Windows