



## DuPont™ Tyvek® Building Envelope Solutions Smart Guide



**Tyvek.**

**FOR BUILDINGS LESS THAN 5 STORIES AND LOW-RISE MULTI-FAMILY  
RESIDENTIAL BUILDINGS LESS THAN 6 STORIES**

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### Flashing Before WRB

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## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

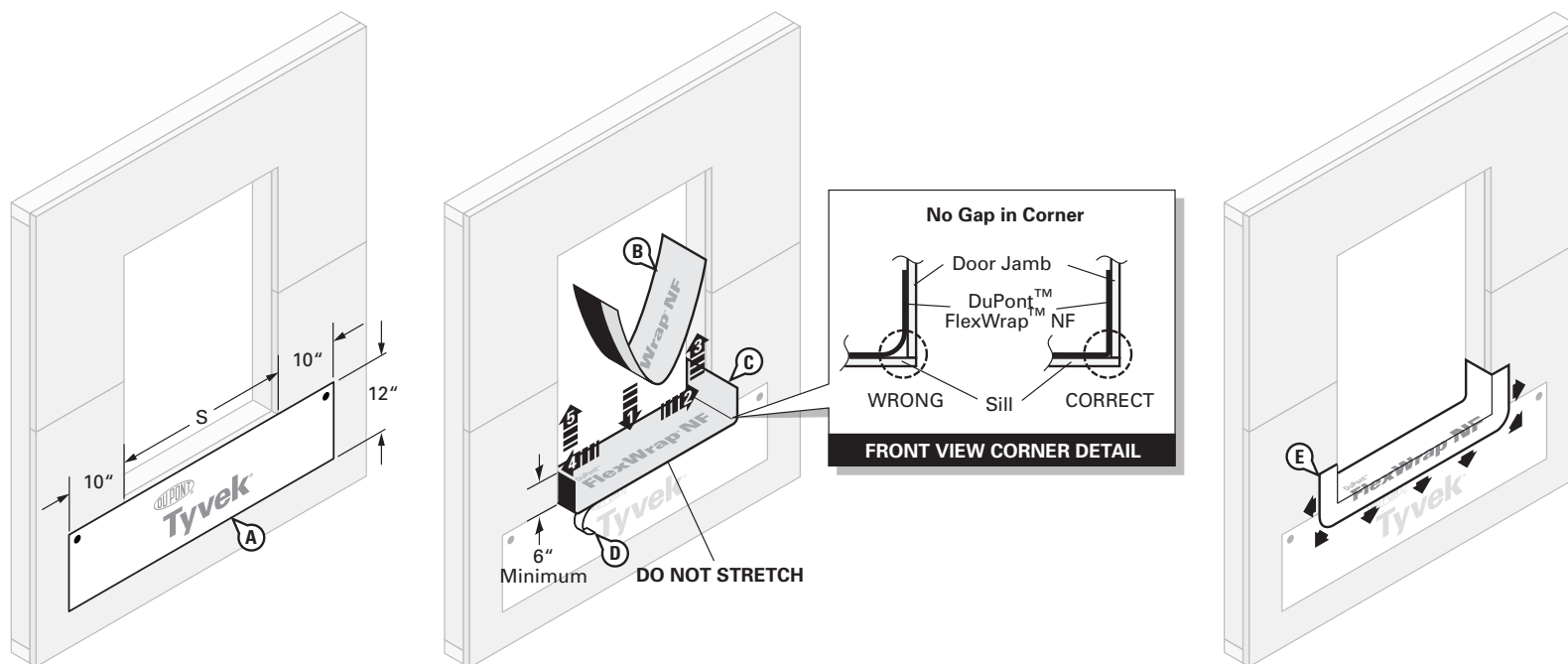
### Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, and DuPont™ Flashing Tape

#### STEP 1

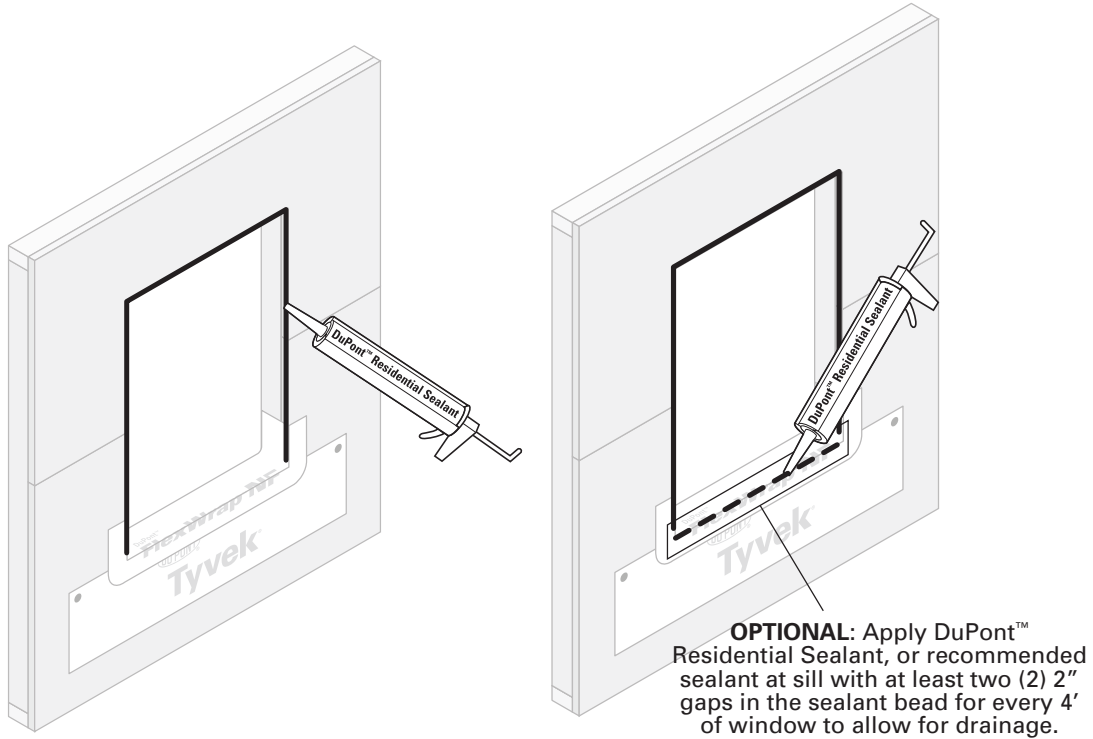
- A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the window. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.
- B. Cut DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion BEYOND where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall.
- C. Remove wide piece of release paper. Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- D. Remove narrow release paper.
- E. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 2

A. Apply DuPont™ Residential Sealant, or recommended sealant on three sides (jambs and head) as shown below.



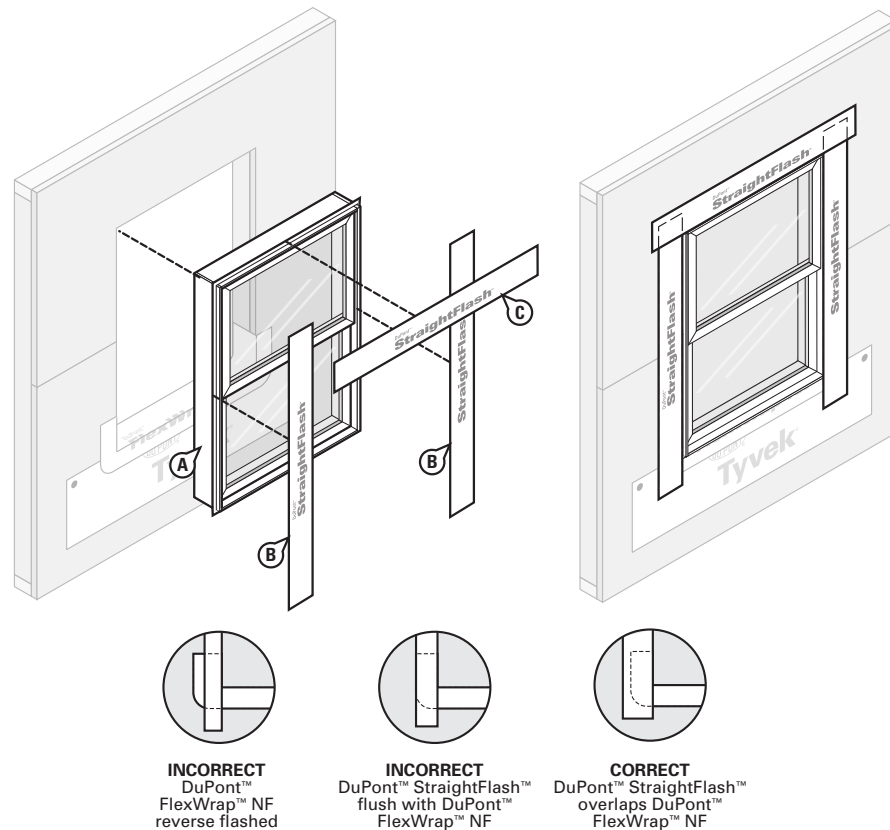


## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 3

- A. Install window according to manufacturer's instructions.
- B. Cut two pieces of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for jamb flashing extending 1" above window head flange and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame. **OPTIONAL:** If installing a drip cap as part of the window installation before the DuPont™ self-adhered flashing membrane at the window head flange, see *Drip Cap Installation* section and refer to Option 1. **NOTE:** The vertical leg of the drip cap must not be taller than the window head flange when installing drip cap according to Option 1.
- C. Cut a piece of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for head flashing long enough to extend beyond outer edges of jamb flashings. Remove release paper and install completely covering flange and adhering to exposed sheathing or framing members. **OPTIONAL:** If installing a drip cap as part of the window installation, but after the window head flashing, see *Drip Cap Installation* section and refer to Option 2.

**NOTE:** Ensure proper shingling. DuPont™ StraightFlash™, DuPont™ Flashing Tape, or DuPont™ FlexWrap™ NF at jambs must overlap the DuPont™ FlexWrap™ NF at the sill and adhere to the DuPont™ Tyvek® WRB apron below the sill.

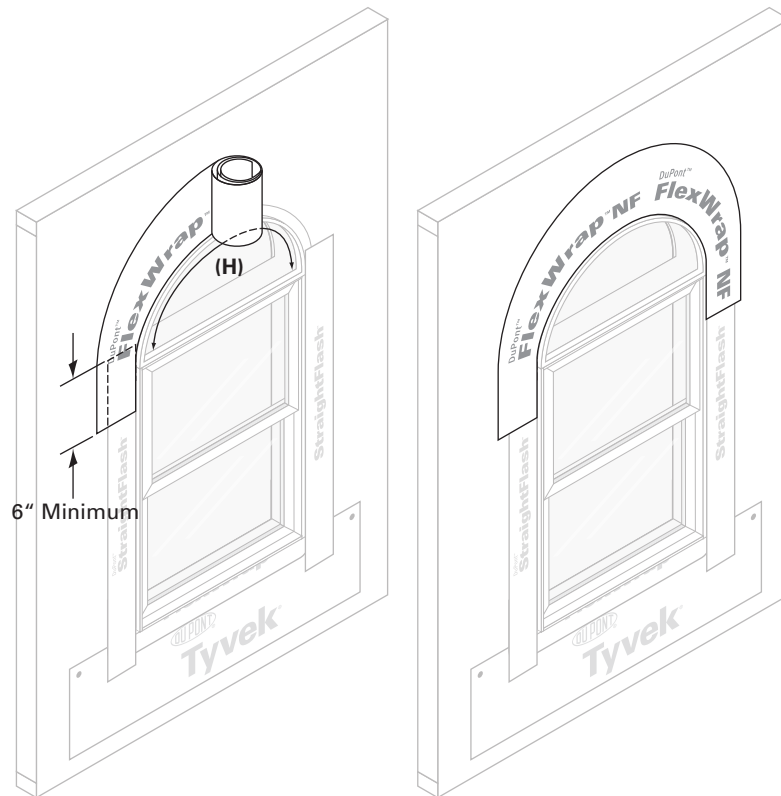


## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 4 – FOR ROUNDTOP WINDOWS

**NOTE:** Follow rectangular window instructions (Steps 1 through 3B) for proper installation of sill and jamb flashing prior to head flashing installation.

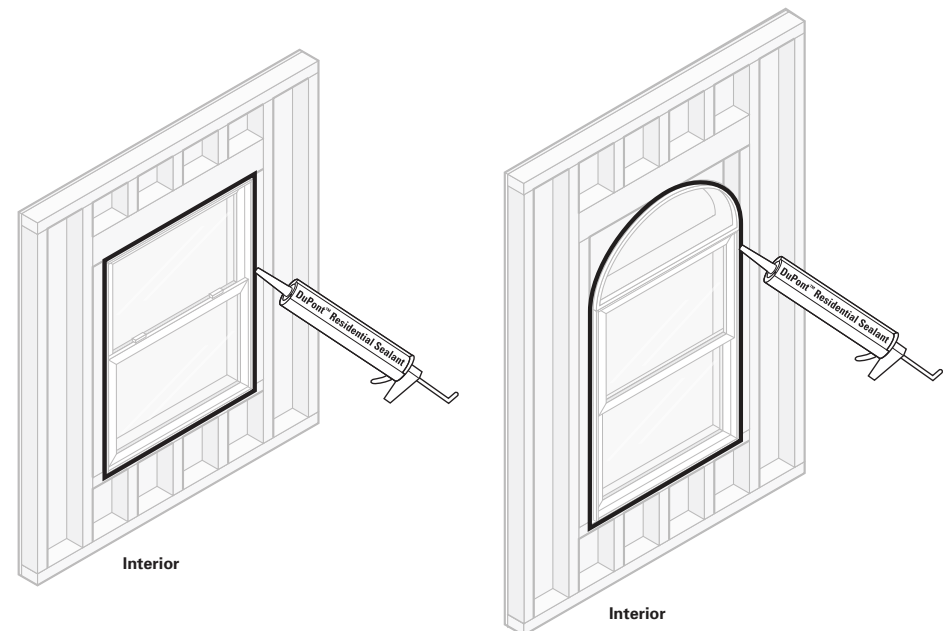
- A. Cut DuPont™ FlexWrap™ NF head flashing at least 12" **LONGER** than the arc length (H) of roundtop window.
- B. Remove both release papers and install to conform around top of window, covering entire mounting flange and adhering to exposed sheathing or framing members. Head flashing should overlap jamb flashings by at least 6".



### STEP 5

Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window and Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. **DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap NF™ around the sill.**

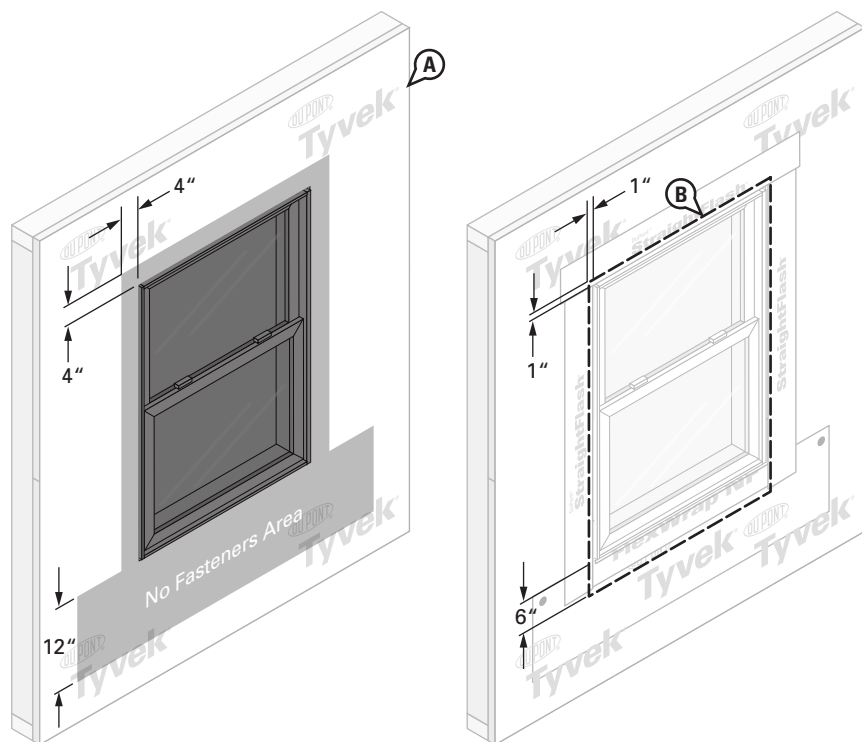
**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 6

- Install the DuPont™ Tyvek® WRB according to the *DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines*. Do not install fasteners within 4" of the window frame at jambs and head and within 12" of the window frame at sill or location of apron.
- Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the window frame, and 6" below the sill of the window frame.

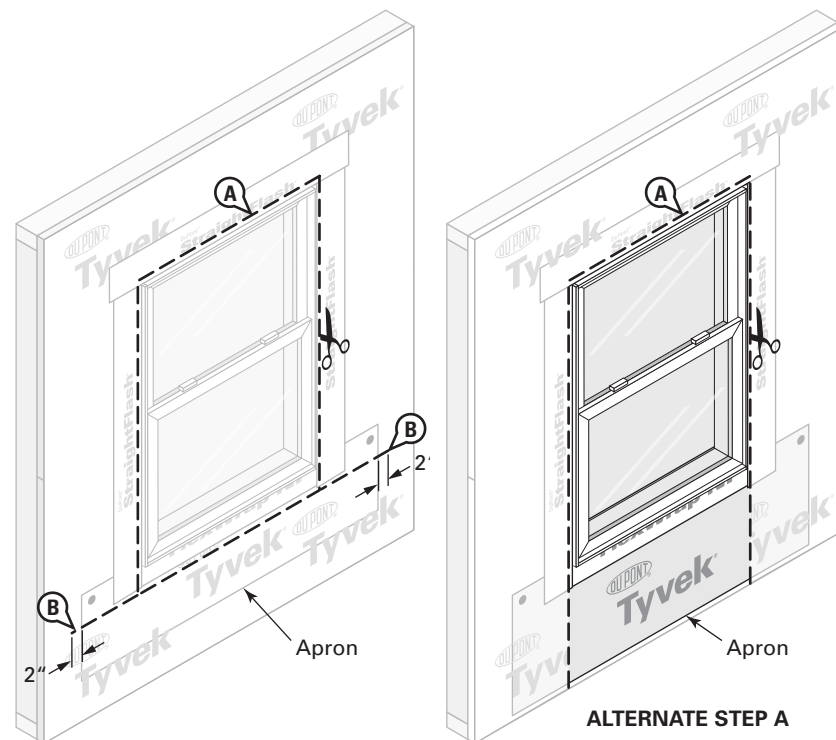


### STEP 7

- Cut the DuPont™ Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

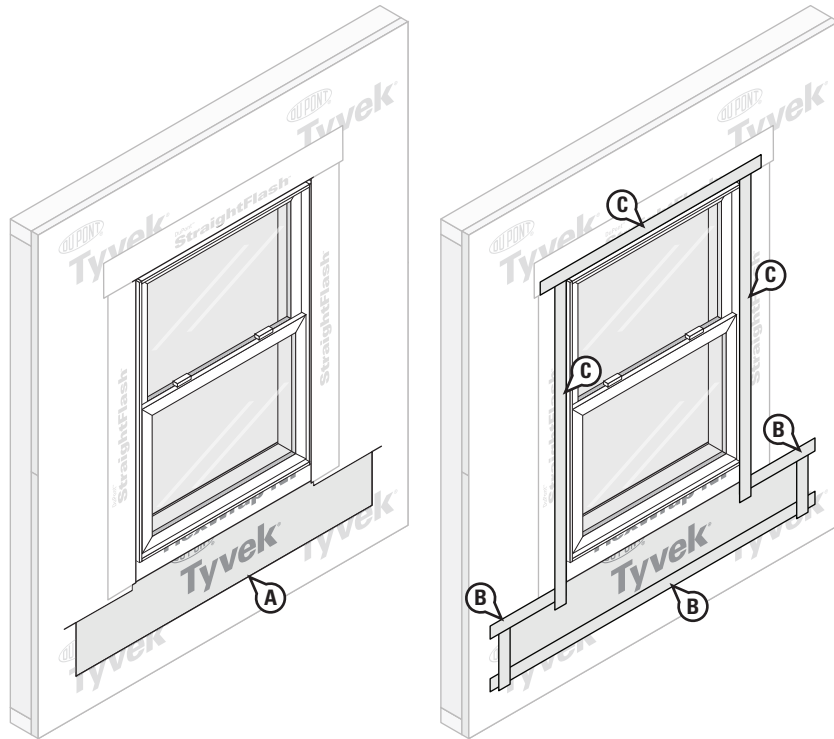
- Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

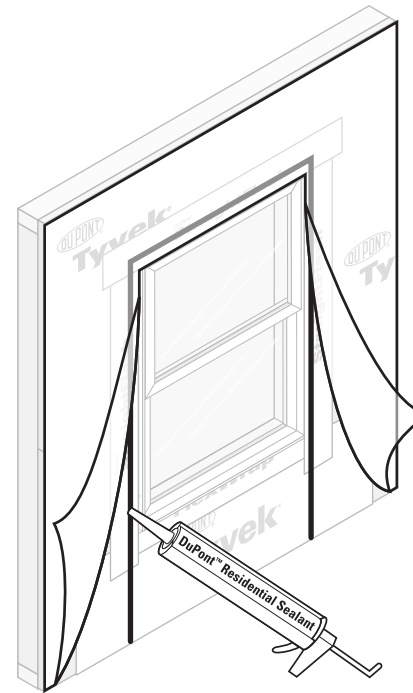
### STEP 8

- A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around window.



### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 7A is followed.



Rectangular Window



Round-top Window

## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

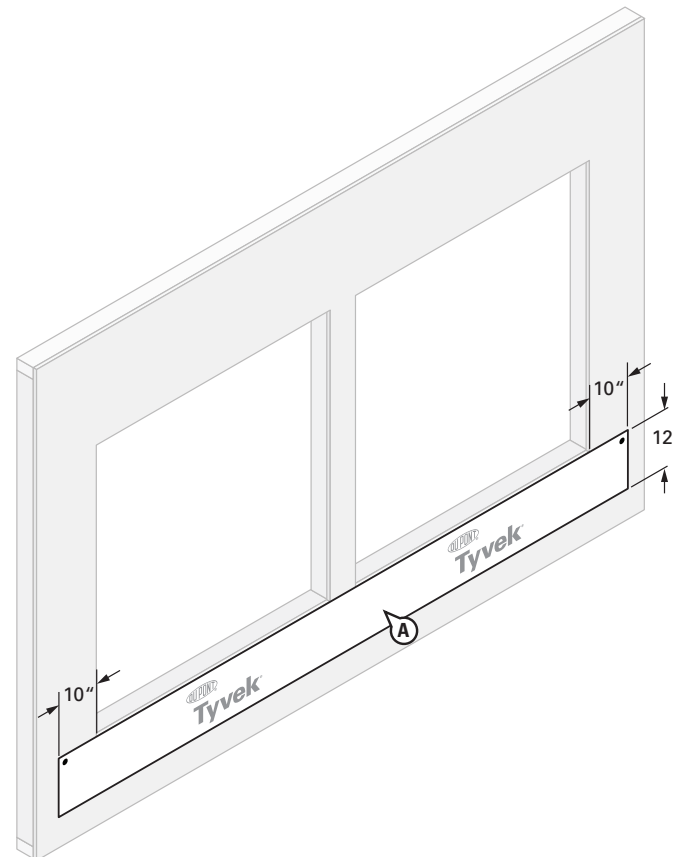
### Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

This method applies to DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF and DuPont™ Flashing Tape

#### STEP 1

Prepare DuPont™ Tyvek® WRB apron:

- A. Cut a single apron made of DuPont™ Tyvek® WRB for attachment under both sills of rough opening. Apron should extend at least 10" beyond the left and right sides of each rough opening jamb (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the windows. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.



## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

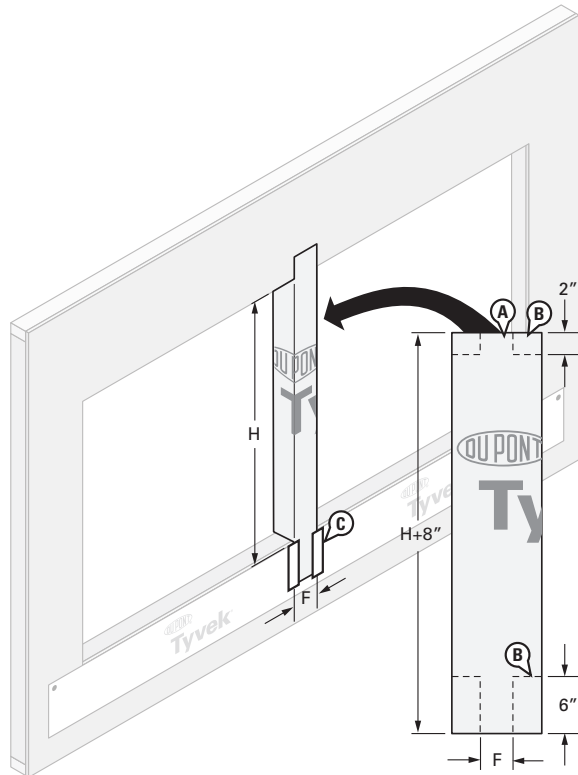
### Option 1 – When Using DuPont™ Tyvek® WRB at Sheathing/Framing Separating Adjacent Windows

Follow STEPS 2-5 when using a piece of DuPont™ Tyvek® WRB between the windows. Refer to Adjacent Window Option 2, when using DuPont™ Self-Adhered Flashing products between adjacent windows.

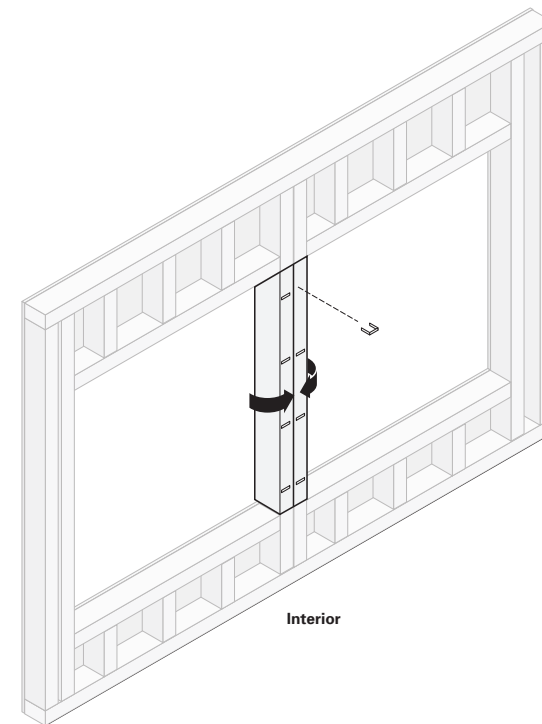
#### STEP 2

Preparation of framing/sheathing separating adjacent windows using DuPont™ Tyvek® WRB.

- A. Cut a piece of DuPont™ Tyvek® WRB wide enough to cover the framing/sheathing between windows when wrapped into the window rough openings and 8" longer than the height of the rough opening.
- B. Cut corners to create side flaps that will fold into adjacent window rough openings with 2" of the Tyvek® WRB piece extending above the rough openings and 6" below.



- C. Install Tyvek® WRB piece onto the framing/sheathing between windows. Do not install fasteners within 6" of the rough openings. DuPont™ Tyvek® Tape may be used if necessary to hold Tyvek® WRB piece in place. Seal vertical seams below window with DuPont™ Tyvek® Tape.



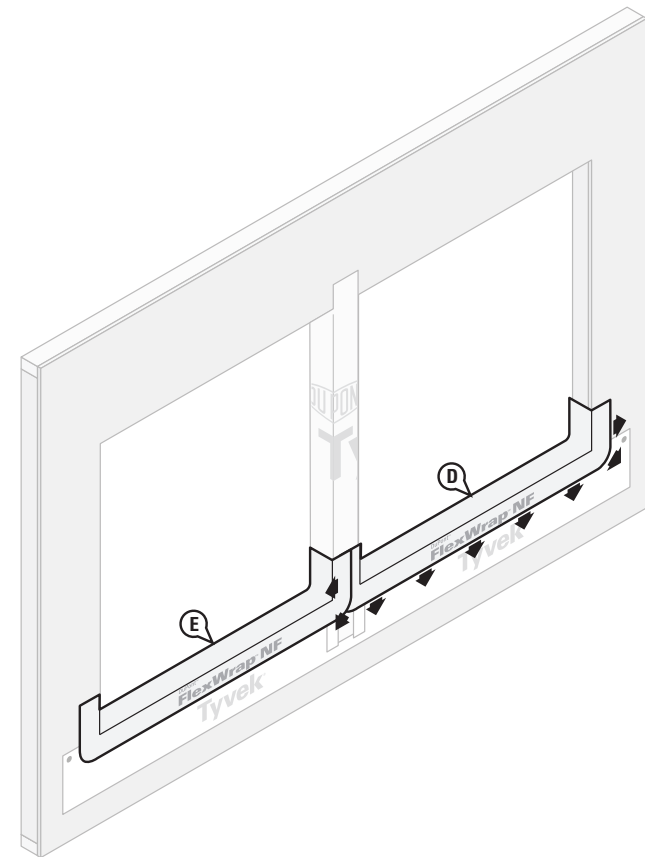
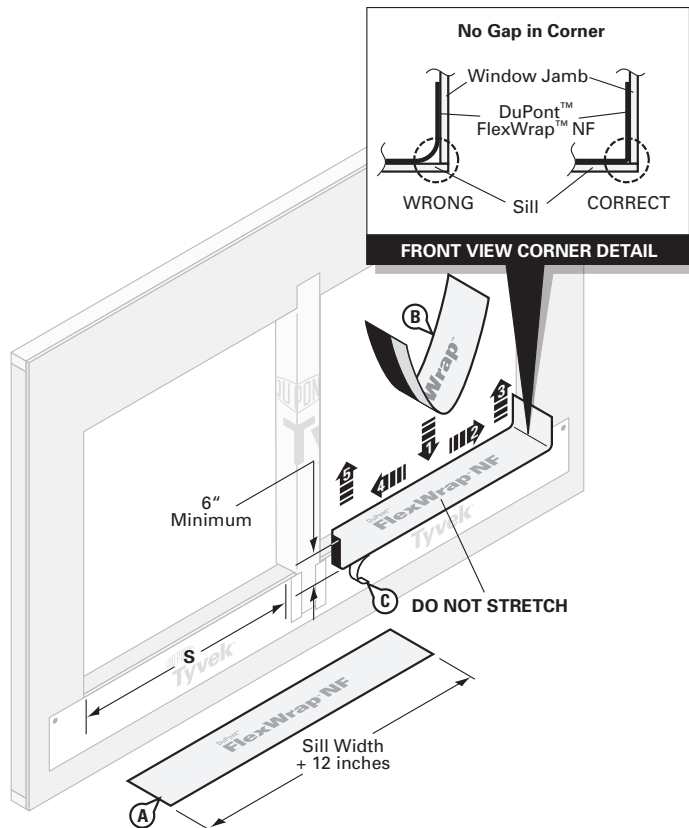


## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### Option 1 (continued)

#### STEP 3

- A. Cut 2 pieces of DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion **BEYOND** where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall.
- B. Remove wide piece of release paper from the first piece of DuPont™ FlexWrap™. Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- C. Remove narrow release paper from the DuPont™ FlexWrap™ NF.
- D. Fan out DuPont™ FlexWrap™ NF at bottom corners onto face of wall and framing/sheathing between windows. Coverage of DuPont™ FlexWrap™ NF should be 2" – 3" onto the face of the wall.
- E. Repeat Steps B-D for second window. **NOTE:** The DuPont™ FlexWrap™ NF installed in the second window may overlap the DuPont™ FlexWrap™ NF installed in the first window at the vertical exposed sheathing/framing separating the windows.

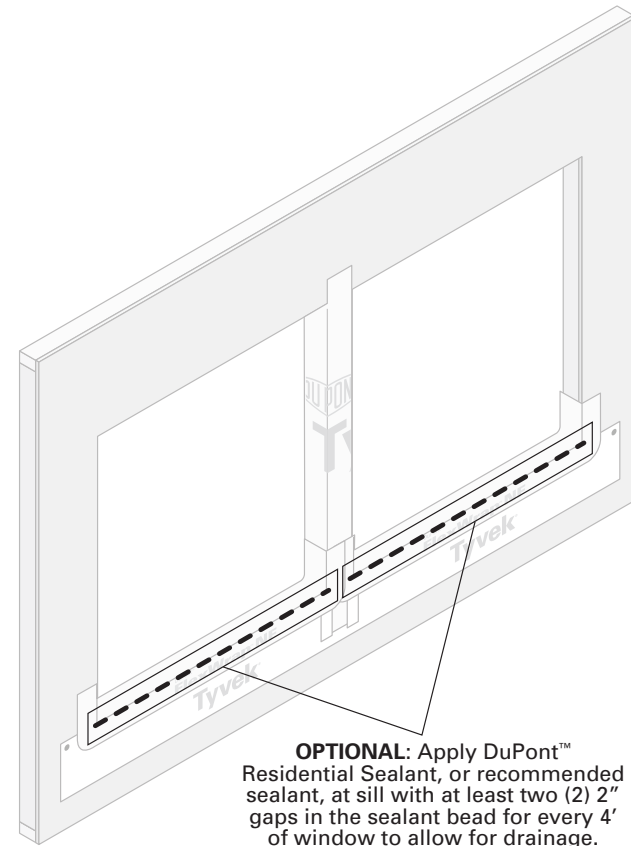
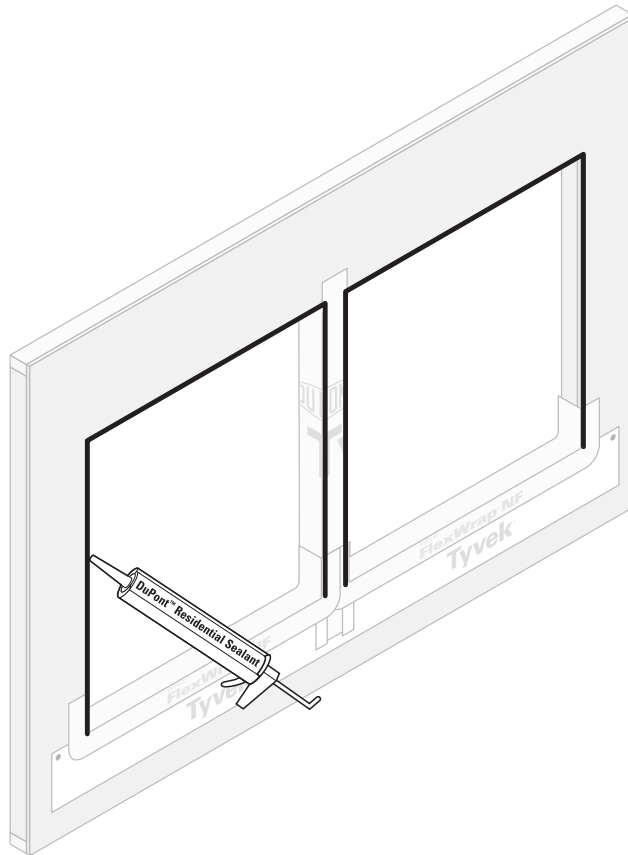


## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### Option 1 (continued)

#### STEP 4

Apply DuPont™ Residential Sealant, or recommended sealant, on three sides (jamb and head) of each window as shown below.



## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### Option 1 (continued)

#### STEP 5

A. Install windows according to manufacturer's instructions.

B. Cut four pieces of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for jamb flashing extending 1" above window head flanges and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame. **NOTE:** The DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for the inside jamb flashing of one window may overlap the DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape on the inside jamb of the other window.

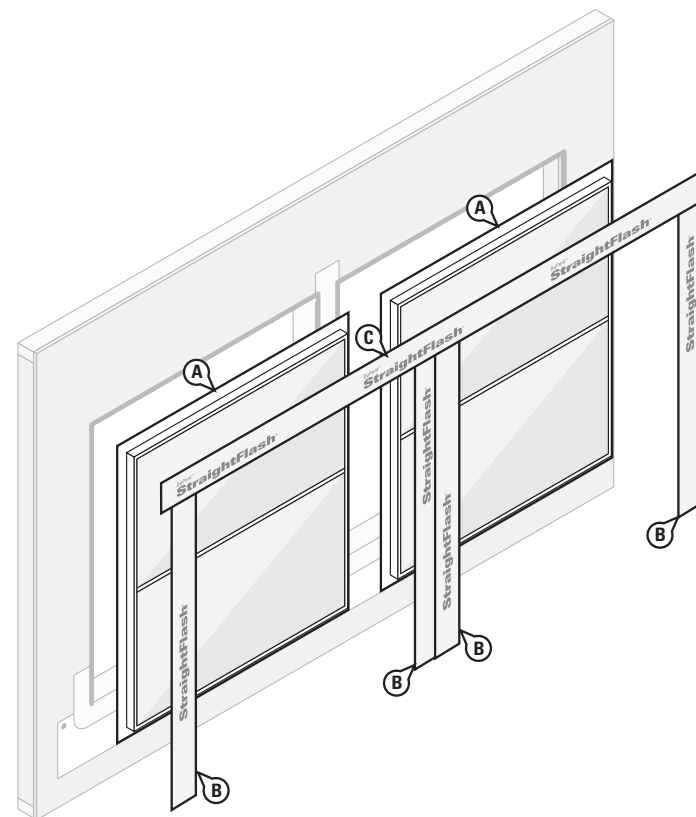
**OPTIONAL:** If installing a drip cap as part of the window installation before the DuPont™ self-adhered flashing membrane at the window head flange, see *Drip Cap Installation* section and refer to Option 1. The vertical leg of the drip cap must not be taller than the window head flange when installing drip cap according to Option 1.

C. Cut a piece of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for head flashing long enough to extend beyond edges of flashing at outer jambs. Remove release paper and adhere to head flanges, extending onto sheathing. The DuPont™ self-adhered membrane over the window must extend beyond the top edge of the DuPont™ self-adhered membrane previously installed between windows.

D. Continue to STEP 6.

**NOTE:** Ensure proper shingling. DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape at jambs must overlap the DuPont™ FlexWrap™ NF at the sill and adhere to the Tyvek® WRB apron below the sill.

**OPTIONAL:** If installing a drip cap as part of the window installation, but after the window head flashing, see *Drip Cap Installation* section and refer to Option 2.

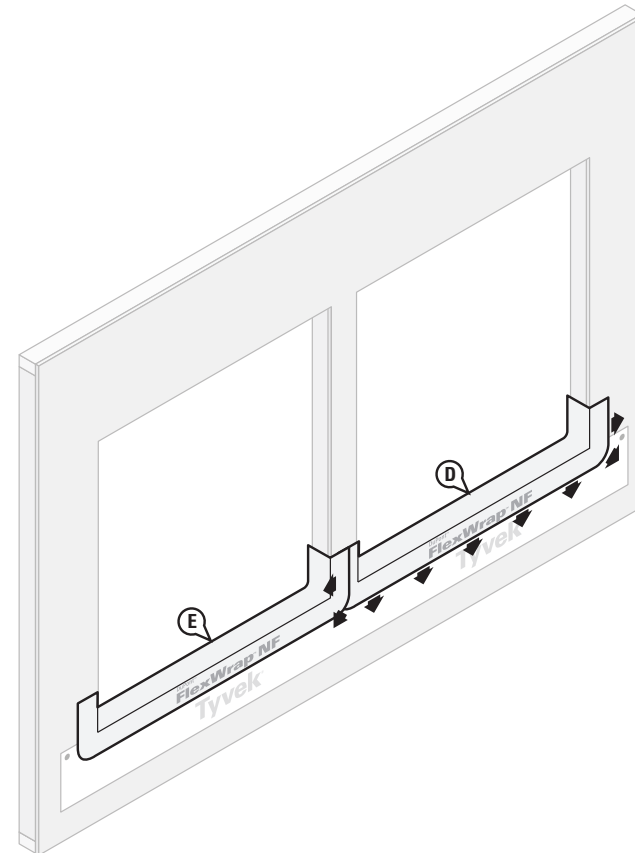
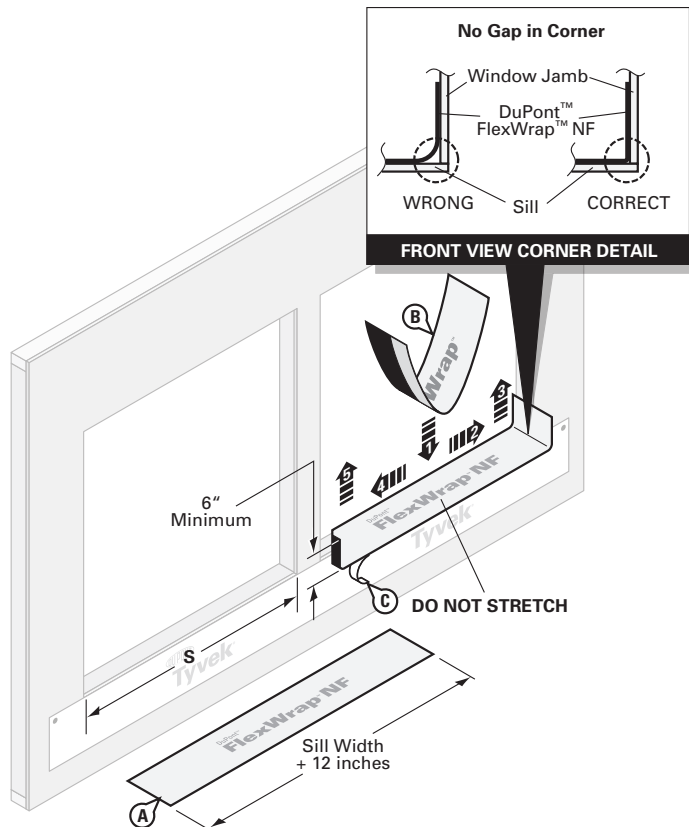


## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### Option 2 – When Using DuPont™ Self-Adhered Flashing Product at Sheathing/Framing Separating Adjacent Windows

#### STEP 2

- A. Cut 2 pieces of DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion **BEYOND** where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall.
- B. Remove wide piece of release paper from the first piece of DuPont™ FlexWrap™. Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- C. Remove narrow release paper from the DuPont™ FlexWrap™ NF.
- D. Fan out DuPont™ FlexWrap™ NF at bottom corners onto face of wall and framing/sheathing between windows. Coverage of DuPont™ FlexWrap™ NF should be 2" to 3" onto the face of the wall.
- E. Repeat Steps B-D for second window. **NOTE:** The DuPont™ FlexWrap™ NF installed in the second window may overlap the DuPont™ FlexWrap™ NF installed in the first window at the vertical exposed sheathing/framing separating the windows.

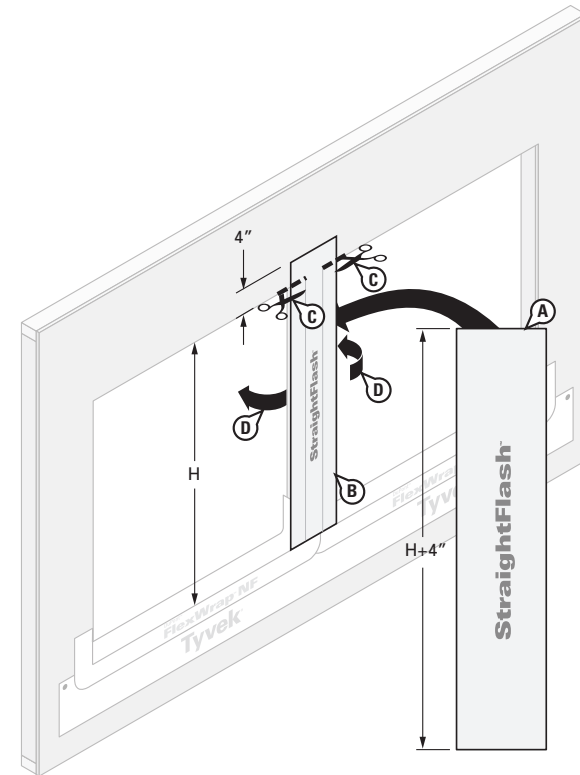


## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### Option 2 (continued)

#### STEP 3

- A. Cut a piece of 9" wide DuPont™ StraightFlash™ or DuPont™ Flashing Tape 4" longer than the height (H) of the rough opening.
- B. Remove release paper and center the DuPont™ StraightFlash™ or DuPont™ Flashing Tape onto the face of the vertical exposed framing/sheathing with the bottom edge aligned with the sill rough opening. Adhere the exposed butyl onto the face of the vertical exposed framing/sheathing and 4" above the window rough openings.
- C. Make horizontal cuts in the DuPont™ StraightFlash™ or DuPont™ Flashing Tape along the top of the rough opening to the edge of the vertical framing/sheathing between windows.
- D. Fold the resulting DuPont™ StraightFlash™ or DuPont™ Flashing Tape flaps into the rough opening and adhere.

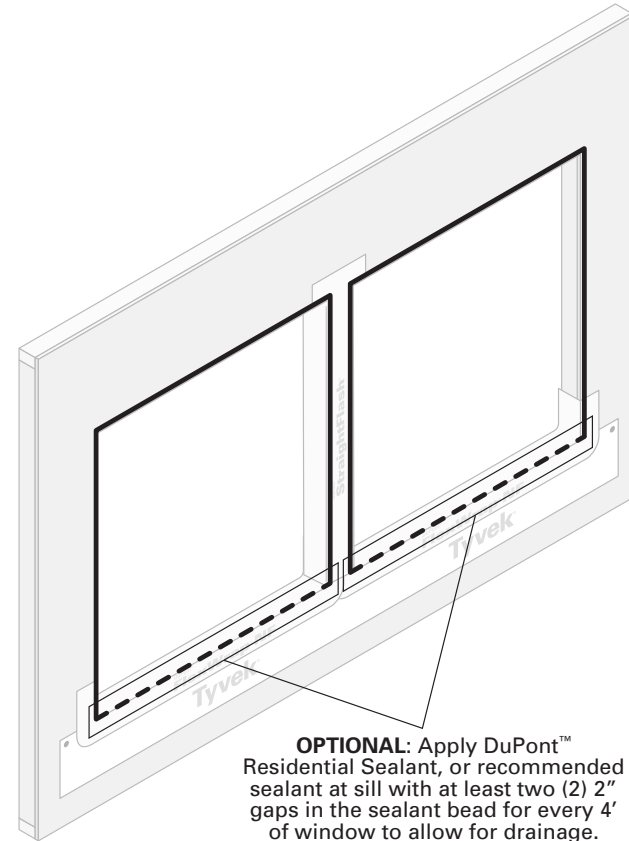
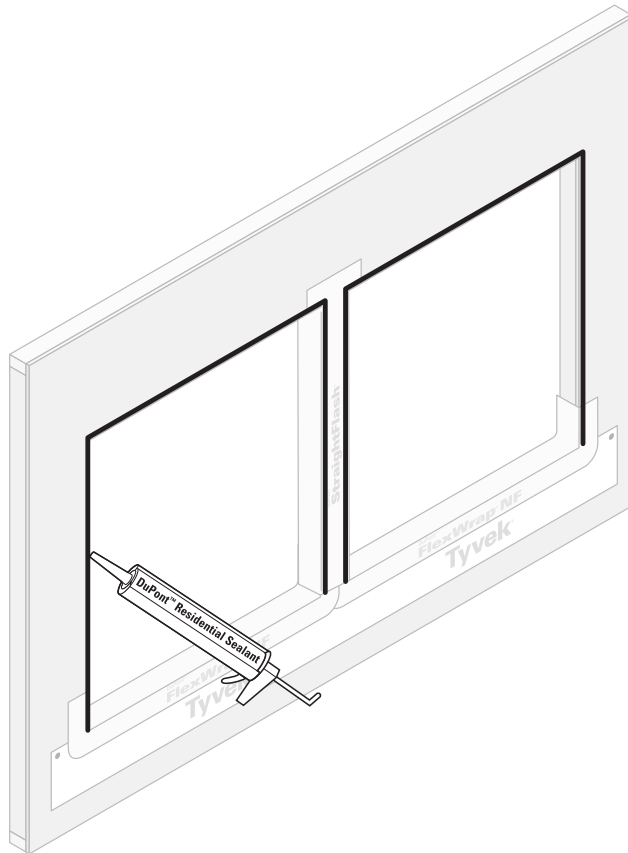


## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### Option 2 (continued)

#### STEP 4

Apply DuPont™ Residential Sealant, DuPont™ or recommended sealant, on three sides (jamb and head) of each window as shown below.



**OPTIONAL:** Apply DuPont™ Residential Sealant, or recommended sealant at sill with at least two (2) 2" gaps in the sealant bead for every 4' of window to allow for drainage.



## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### Option 2 (continued)

#### STEP 5

A. Install windows according to manufacturer's instructions.

B. Cut four pieces of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for jamb flashing extending 1" above window head flanges and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame.

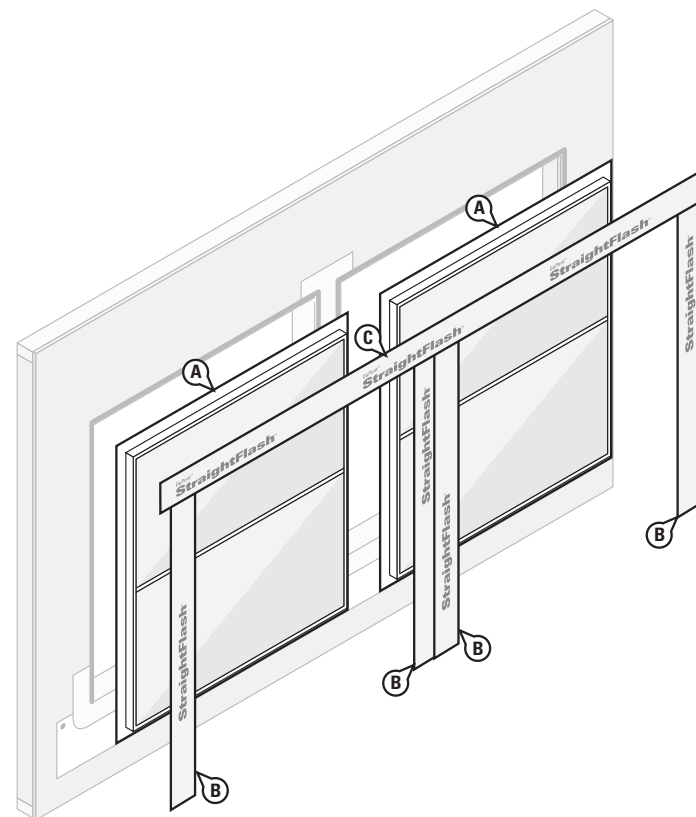
**NOTE:** The DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for the inside jamb flashing of one window may overlap the DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape on the inside jamb of the other window.

**OPTIONAL:** If installing a drip cap as part of the window installation before the DuPont™ self-adhered flashing membrane at the window head flange, see *Drip Cap Installation* section and refer to Option 1. The vertical leg of the drip cap must not be taller than the window head flange when installing drip cap according to Option 1.

C. Cut a piece of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for head flashing long enough to extend beyond edges of flashing at outer jambs. Remove release paper and adhere to head flanges, extending onto sheathing. The DuPont™ self-adhered membrane over the window must extend beyond the top edge of the DuPont™ self-adhered membrane previously installed between windows.

**NOTE:** Ensure proper shingling. DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape at jambs must overlap the DuPont™ FlexWrap™ NF at the sill and adhere to the Tyvek® WRB apron below the sill.

**OPTIONAL:** If installing a drip cap as part of the window installation, but after the window head flashing, see *Drip Cap Installation* section and refer to Option 2.

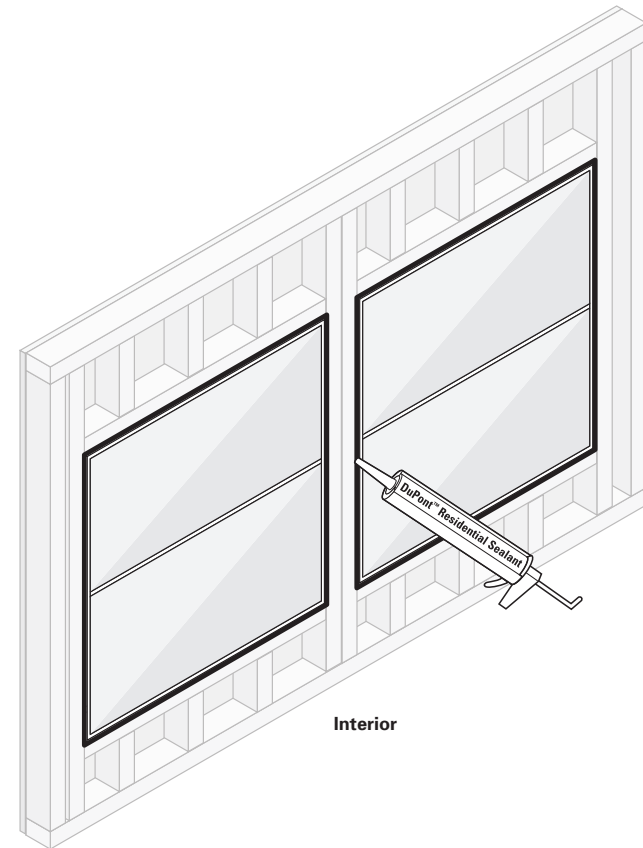


## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 6

Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window openings at the interior. It is also acceptable to use DuPont™ Window and Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap NF™ around the sill.

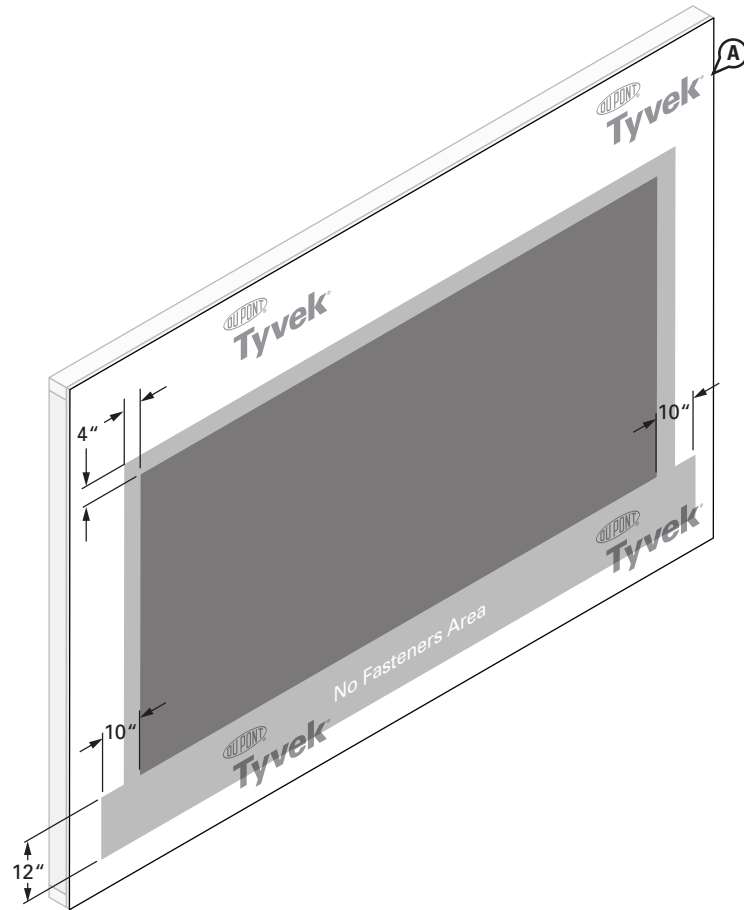
**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. **See *General Instructions in the DuPont™ Self-Adhered Flashing Systems Installation Guidelines Installation Instructions for Windows and Doors After Water-Resistive Barrier (WRB) is Installed* for performance requirements exceeding this design rating.**



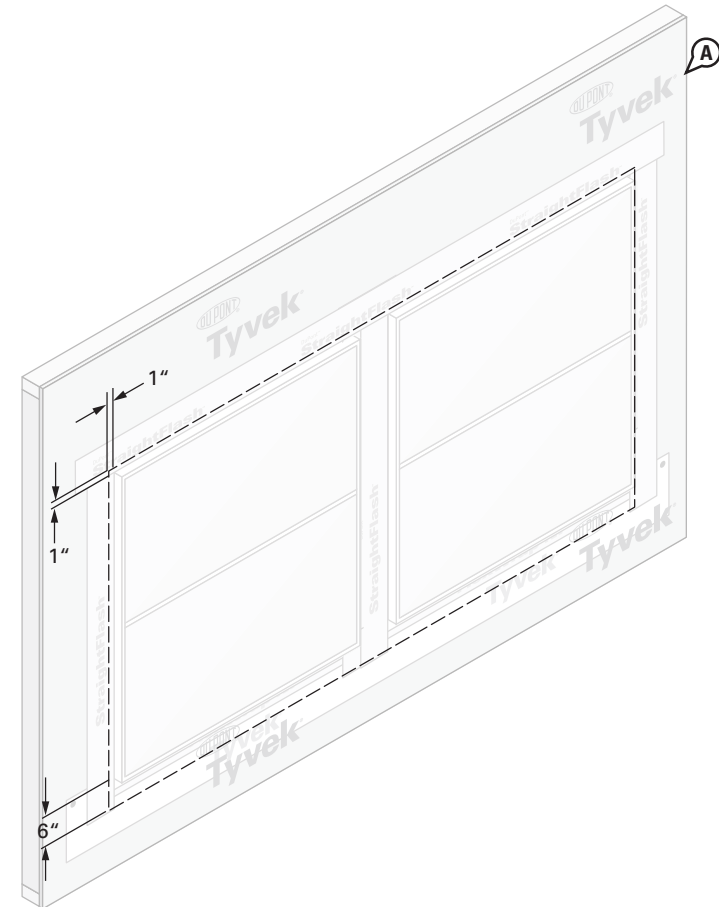
## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 7

A. Install the DuPont™ Tyvek® WRB according to the *DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines*. Do not install fasteners within 4" of the window frames at outside jambs and heads and within 12" of the window frames at sills or location of apron.



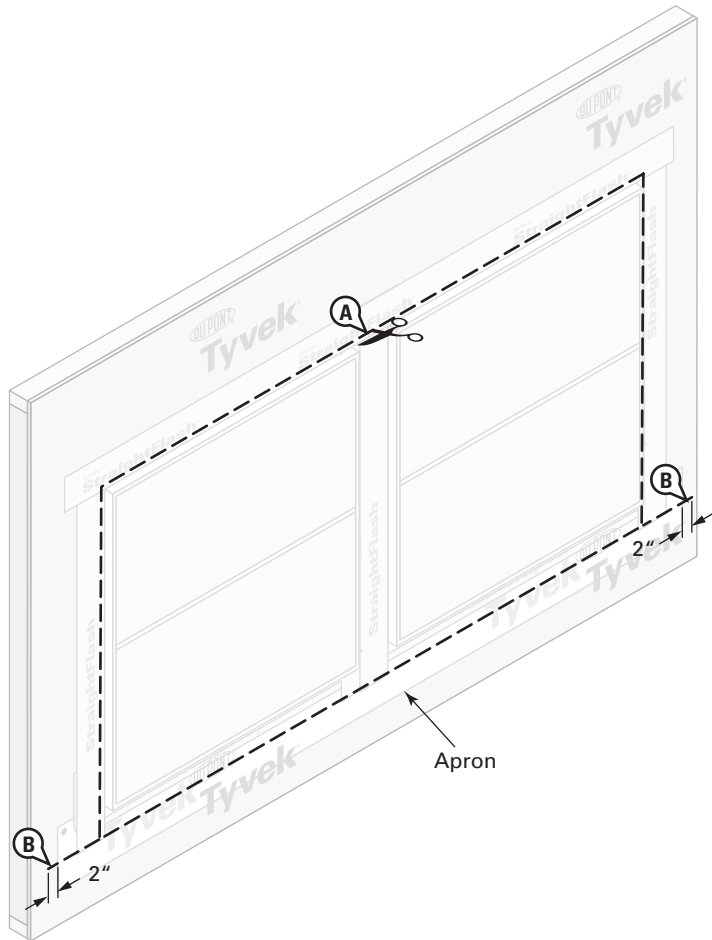
B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough openings a minimum of 1" from the outside jambs and heads of the window frames, and 6" below the sill of the window frames.



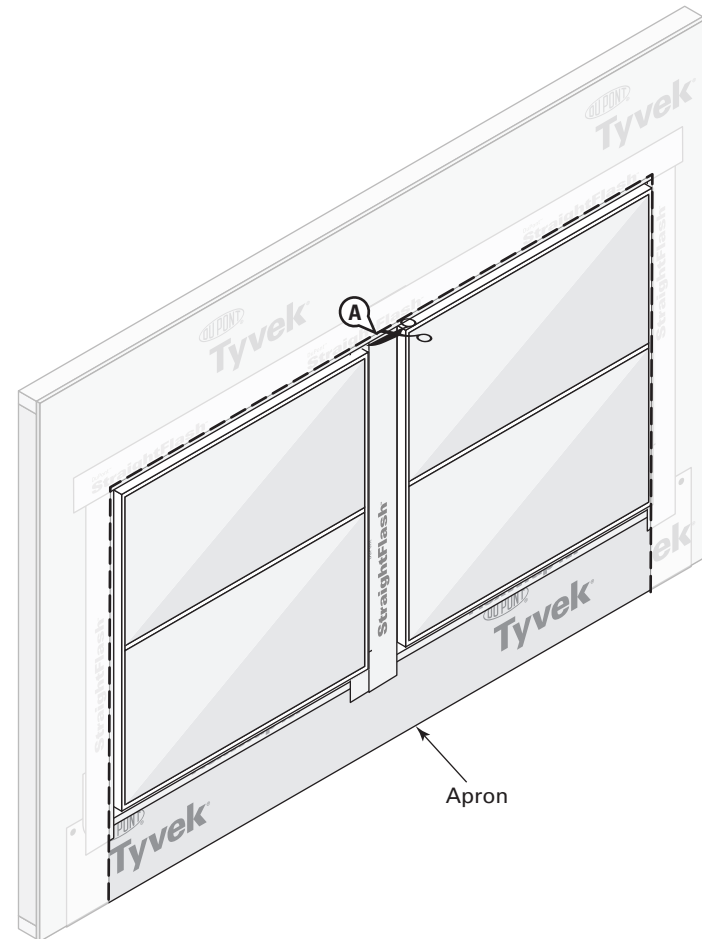
## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 8

- A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose windows. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.
- B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



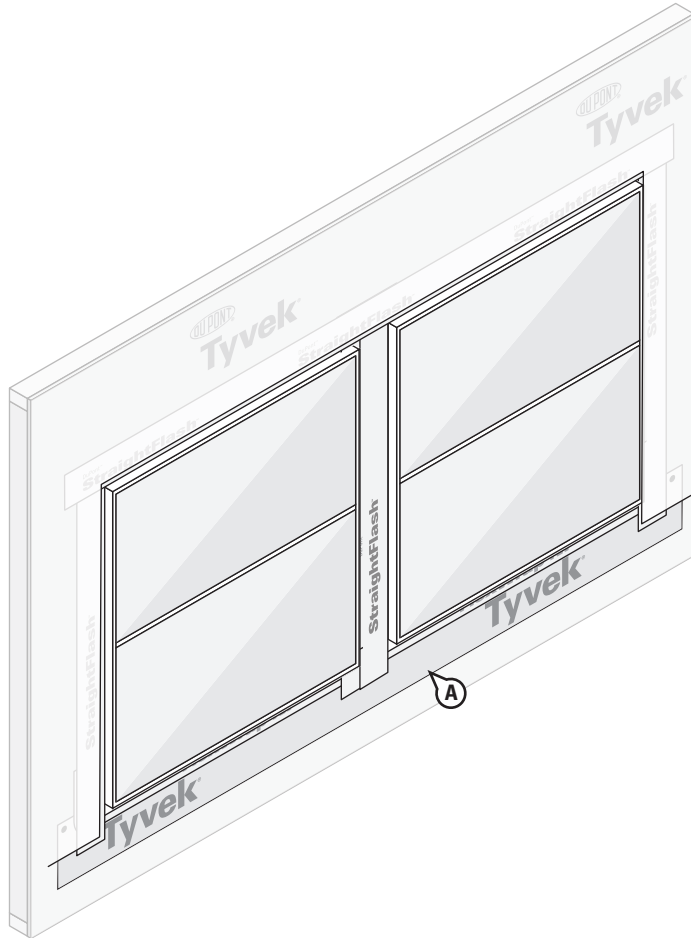
**ALTERNATE STEP A:** If apron extends far enough below the sill rough openings to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.



## Integral Flanged Adjacent Rectangular Windows (with Less Than 6" of Sheathing/Framing Between Windows) BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 9

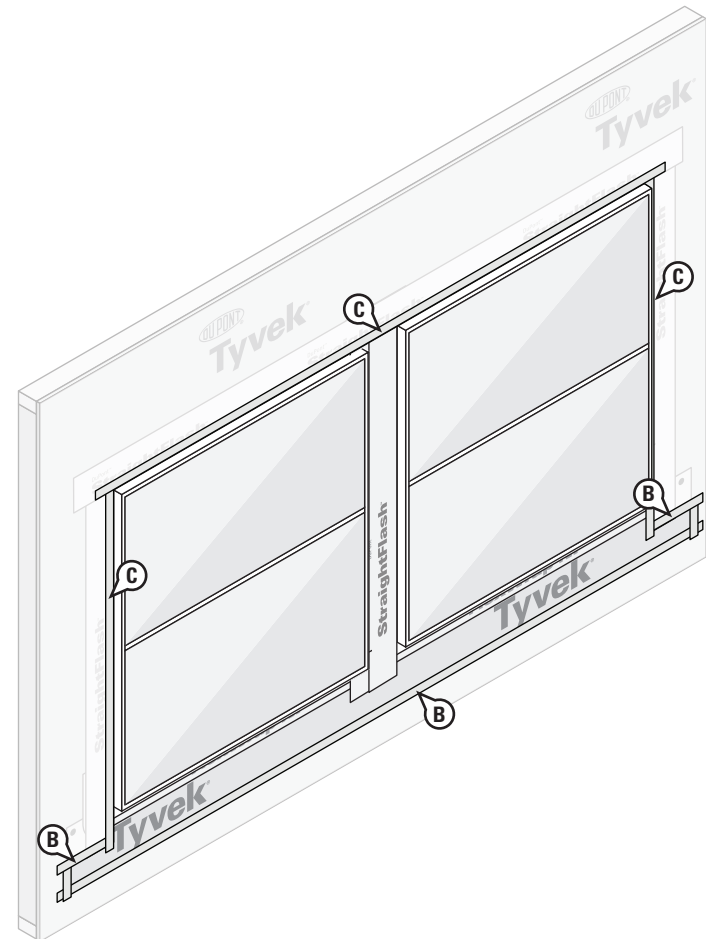
A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.



B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.

C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around windows.

**OPTIONAL:** If installing a drip cap AFTER the DuPont™ Tyvek® WRB is installed and sealed around perimeter of windows, see *Drip Cap Installation* section and refer to Option 3.



## Drip Cap Installation with Integral Flanged Windows

### Drip Cap Installation with Integral Flanged Windows

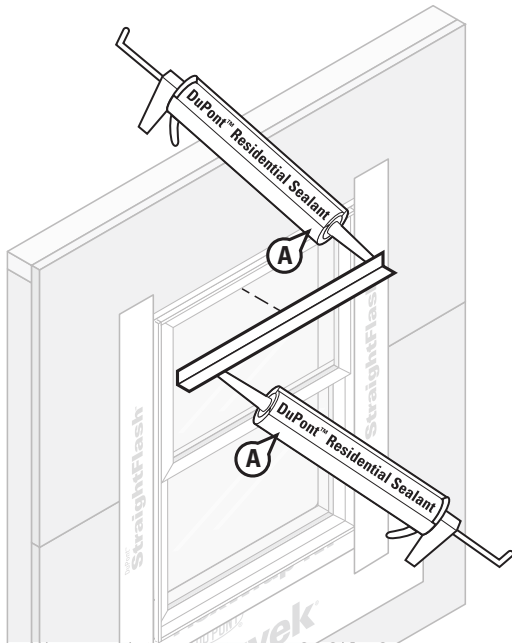
The following drip cap options can also be used for integral flanged doors.

#### Option 1

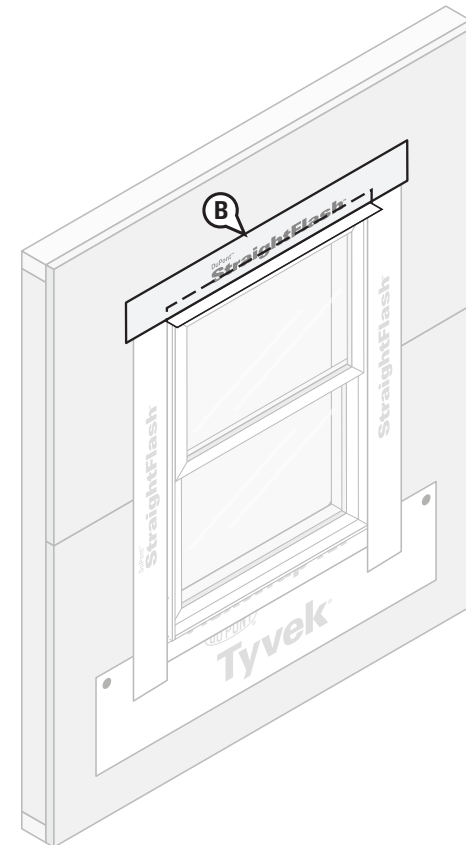
A drip cap with a short vertical leg can be installed at the window head flange so it is integrated with the DuPont™ self-adhered flashing membrane installed at the head of the window **BEFORE** the DuPont™ Tyvek® WRB is installed and sealed. **NOTE:** When using this method, the vertical leg of the drip cap **must not** be taller than the window head flange when installed.

#### STEP 1

- A. After the window is installed and jamb flashing applied, cut a piece of metal or vinyl drip cap slightly **LONGER** than the width of the window. Place a bead of DuPont™ Residential Sealant, or recommended sealant, on the rear side of the vertical leg **AND** a bead on the rear side of the bottom horizontal leg. Install the drip cap tight against the window head flange.



- B. Cover the head flange and top edge of the drip cap with a piece of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape. The DuPont™ self-adhered flashing systems product should be long enough to extend beyond the jamb flashing and adhere a minimum of 2" onto the wall.





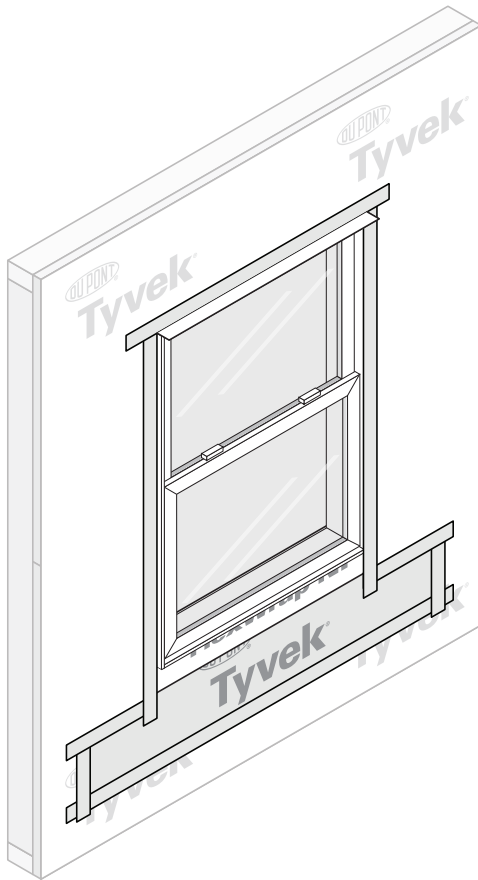
## Drip Cap Installation with Integral Flanged Windows

### Option 1 (continued)

#### STEP 2

Install the DuPont™ Tyvek® WRB according to the *Integral Flanged Window BEFORE* DuPont™ Tyvek® WRB section, Steps 6-8.

**NOTE:** The horizontal perimeter cut in the DuPont™ Tyvek® WRB at top of window will need to extend slightly beyond window frame at jambs to accommodate the drip cap and be sealed onto the vertical leg with DuPont™ Tyvek® Tape.



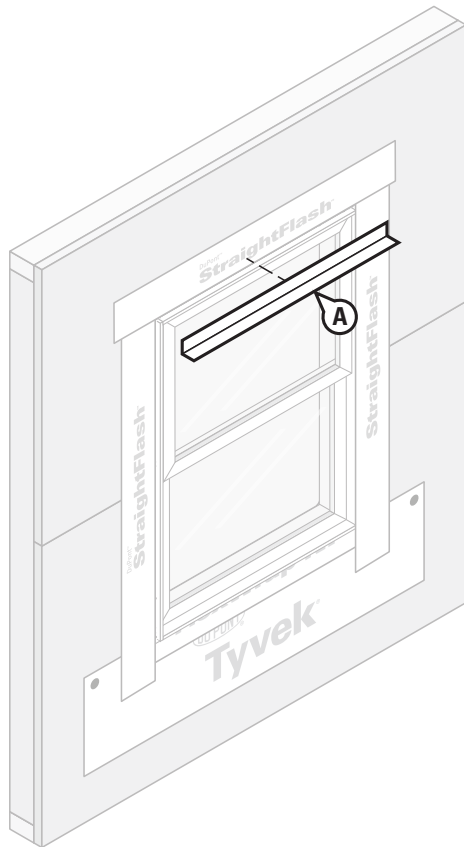
## Drip Cap Installation with Integral Flanged Windows

### Option 2

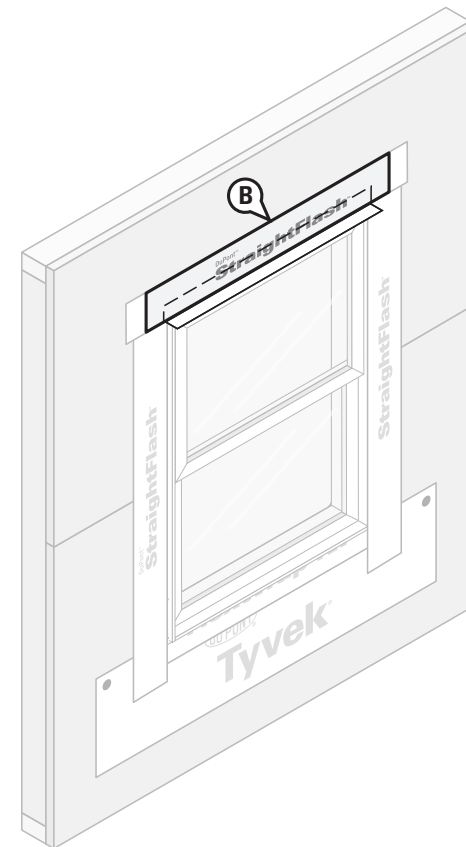
A drip cap can be installed over the head flashing above the window head **BEFORE** the DuPont™ Tyvek® WRB is installed and sealed.

#### STEP 1

A. After the DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape is installed over window head flange, cut metal or vinyl drip cap slightly **LONGER** than the width of the window.



B. Install the drip cap tight against the window head flashing and cover the top edge with DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape extending past the top and sides of the drip cap.



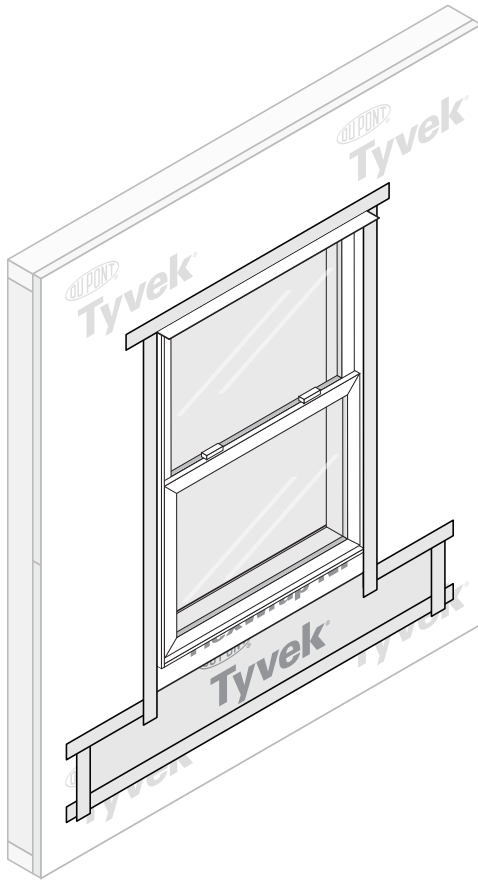
## Drip Cap Installation with Integral Flanged Windows

### Option 2 (continued)

#### STEP 2

Install the DuPont™ Tyvek® WRB according to the *Integral Flanged Window BEFORE* DuPont™ Tyvek® WRB section, Steps 6-8.

**NOTE:** The horizontal perimeter cut in the DuPont™ Tyvek® WRB at top of window will need to extend slightly beyond window frame at jambs to accommodate the drip cap and be sealed onto the vertical leg with DuPont™ Tyvek® Tape.



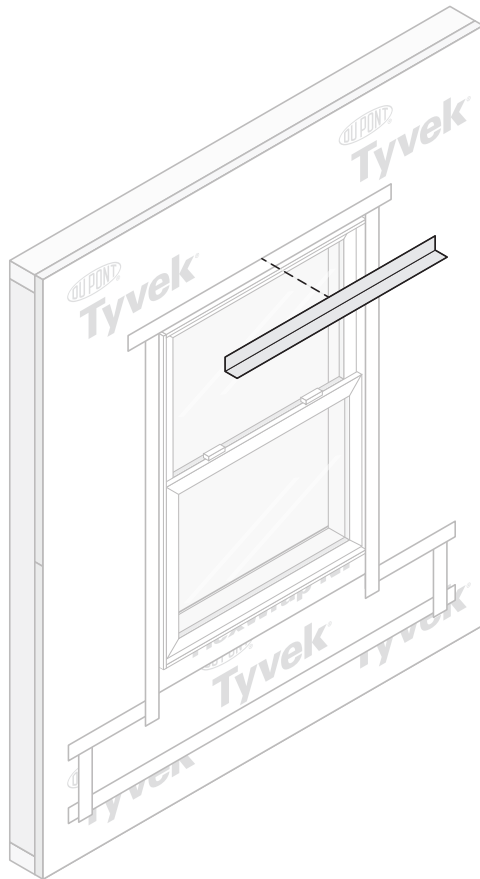
## Drip Cap Installation with Integral Flanged Windows

### Option 3

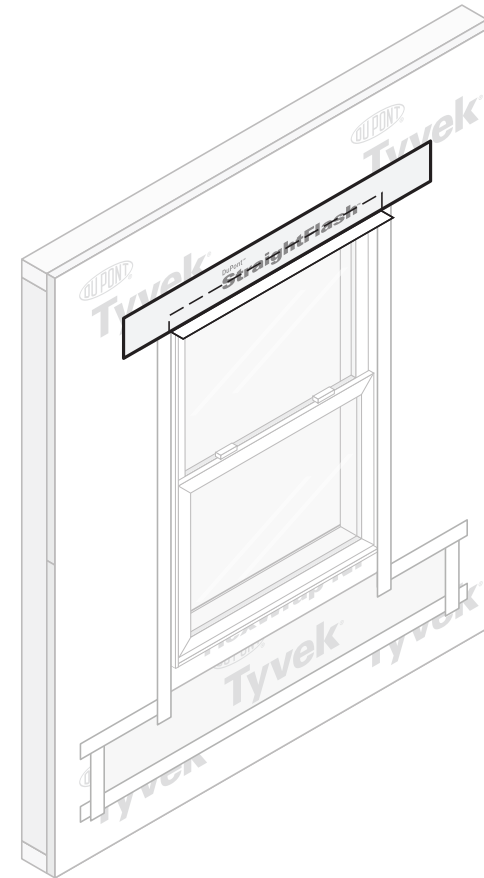
A drip cap can be installed over the DuPont™ Tyvek® WRB above the window head  
**AFTER** the DuPont™ Tyvek® WRB is installed and sealed.

#### STEP 1

A. After DuPont™ Tyvek® WRB is installed and sealed, cut metal or vinyl drip cap slightly **LONGER** than the width of the window and install.



B. As a recommended best practice, cover the top edge of the drip cap with DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape extending past the top and sides of the drip cap and side edges of the window head flashing.



## Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

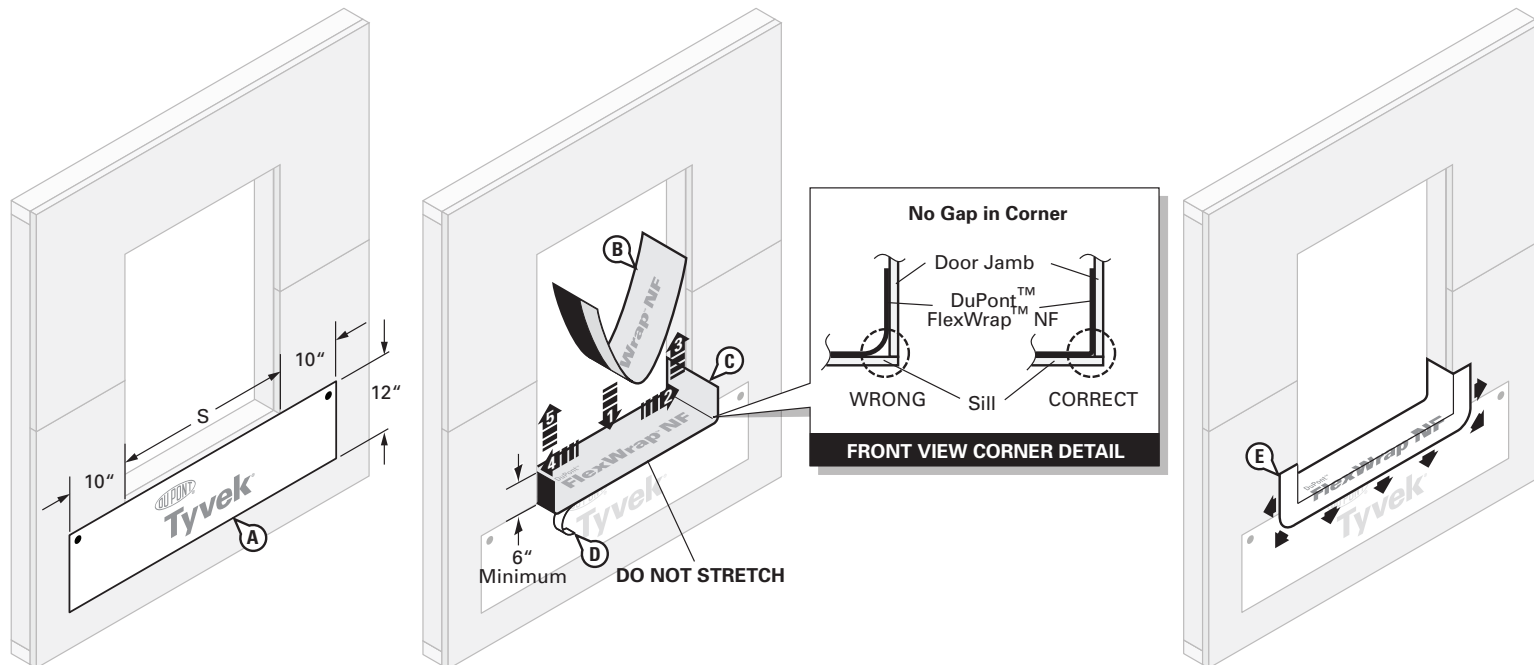
### Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, and DuPont™ Flashing Tape

#### STEP 1

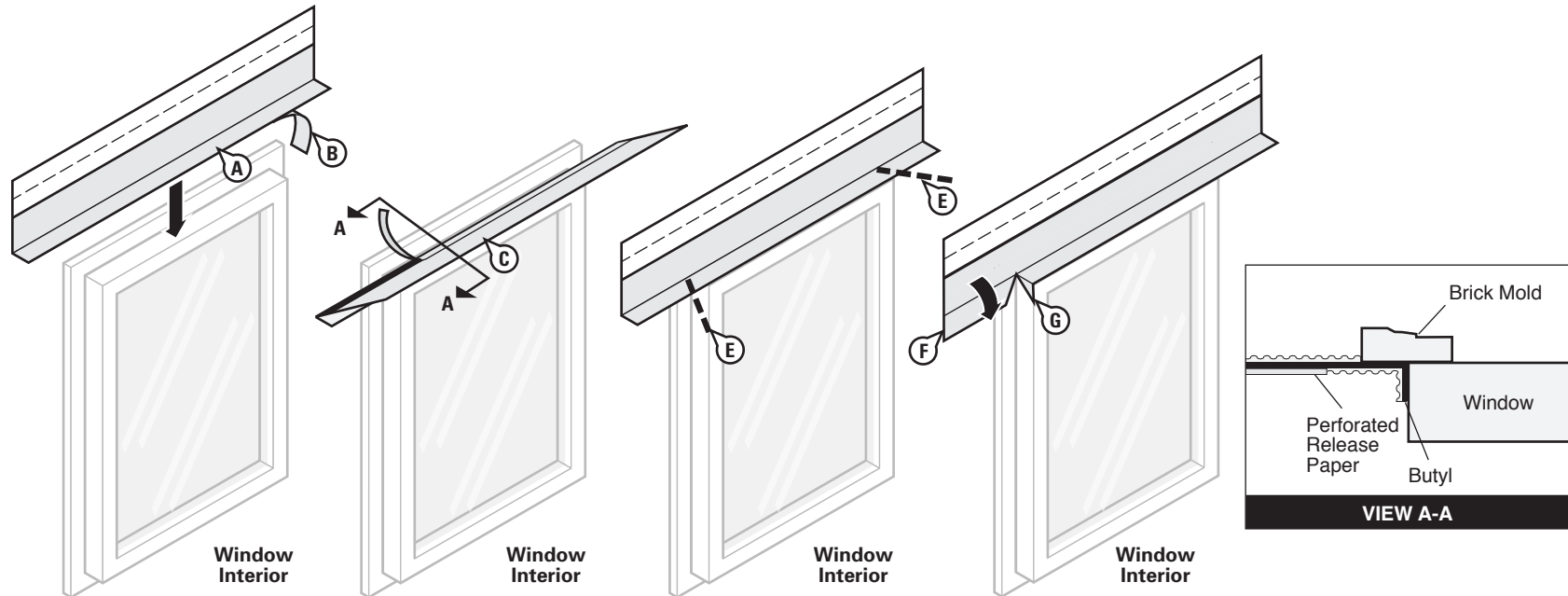
- A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the window. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.
- B. Cut DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion BEYOND where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall.
- C. Remove wide piece of release paper. Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- D. Remove narrow release paper.
- E. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 2

- A. Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 12" **LONGER** than the head length.
- B. Break the perforated release paper on one side of the head flashing by folding it back and forth upon itself.
- C. Center the DuPont™ StraightFlash™ VF along the length of the window head and position so that it contacts the window frame and interior side of the brick mold. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner.
- D. Remove the inner release paper and adhere the flashing to the back of the brick mold.
- E. Beginning at the junction of the jamb and the head, and away from the corner, cut DuPont™ StraightFlash™ VF at a 45° angle.
- F. Fold the newly created flaps down against the brick mold.
- G. Fold remaining head flashing flaps down onto the jamb.

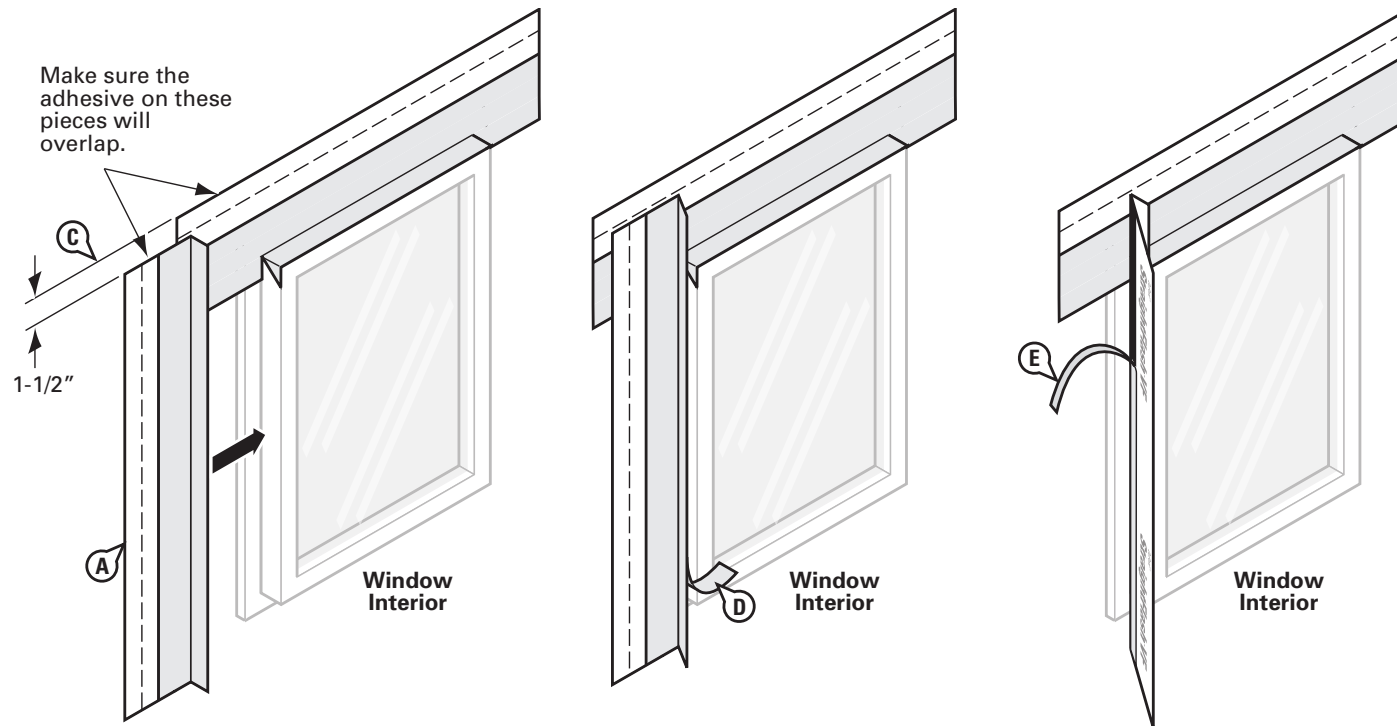




## Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 3

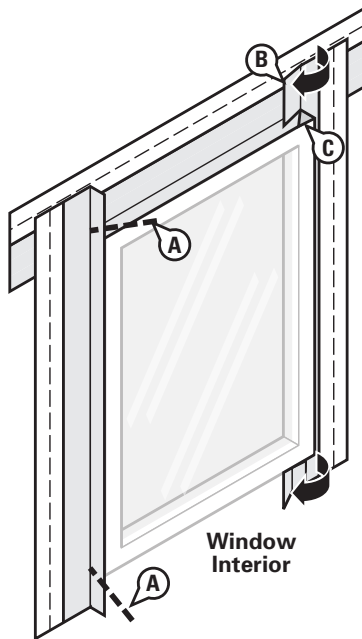
- A. Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 6" **LONGER** than the jamb.
- B. Break the perforated release paper on one side of the jamb flashing by folding it back and forth upon itself.
- C. Position so that the DuPont™ StraightFlash™ VF contacts the window frame and interior side of the brick mold. Ensure that the jamb flashing is positioned 1-1/2" below the top edge of the head flashing. **Jamb flashing adhesive must come in contact with head flashing adhesive and overlap one inch.**
- D. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner.
- E. Remove the inner release paper and adhere the flashing to the back of the brick mold.
- F. Repeat on opposite jamb.



## Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

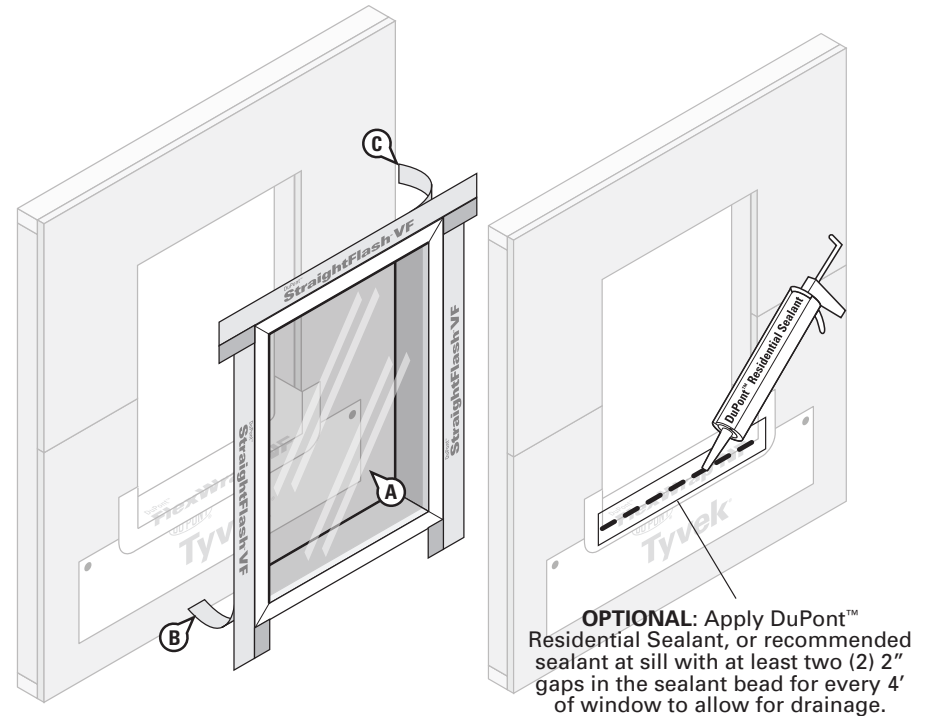
### STEP 4

- A. Beginning at the junction of the jamb and the head, and away from the corner, cut the DuPont™ StraightFlash™ VF at a 45° angle. Repeat the procedure at the junction of the sill and jambs.
- B. Fold cut jamb flashing parallel to the window frame so that the jamb flashing lies flat.
- C. Fold remaining jamb flashing flaps down at all corners and adhere to the window frame.



### STEP 5

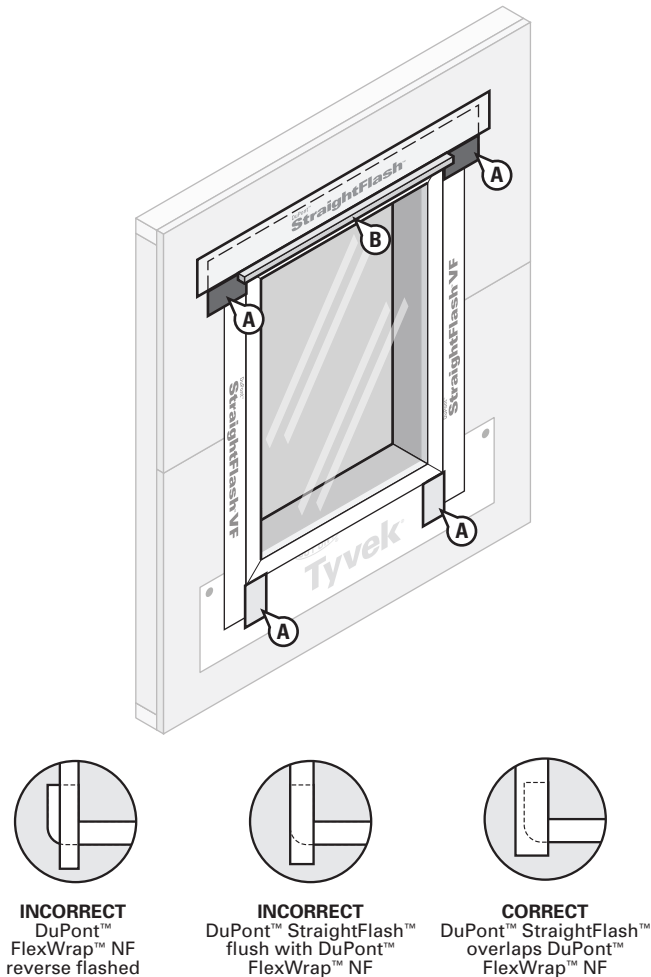
- A. Install window according to manufacturer's installation instructions.
- B. Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.
- C. Remove the release paper at the head and adhere the DuPont™ StraightFlash™ VF to the exterior sheathing or framing members.



## Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 6

- A. **OPTIONAL:** Cover exposed butyl with DuPont™ StraightFlash™, DuPont™ Flashing Tape or DuPont™ Tyvek® Tape.
- B. **OPTIONAL:** If installing a drip cap as part of the window installation BEFORE the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.

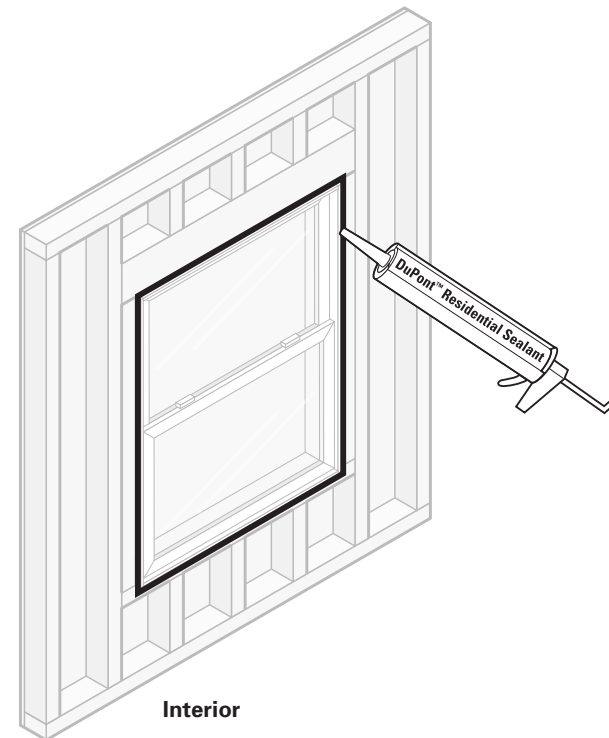


**Note:** Do not reverse shingle. DuPont™ StraightFlash™ must overlap DuPont™ FlexWrap™ NF and adhere to the substrate.

### STEP 7

Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. **DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

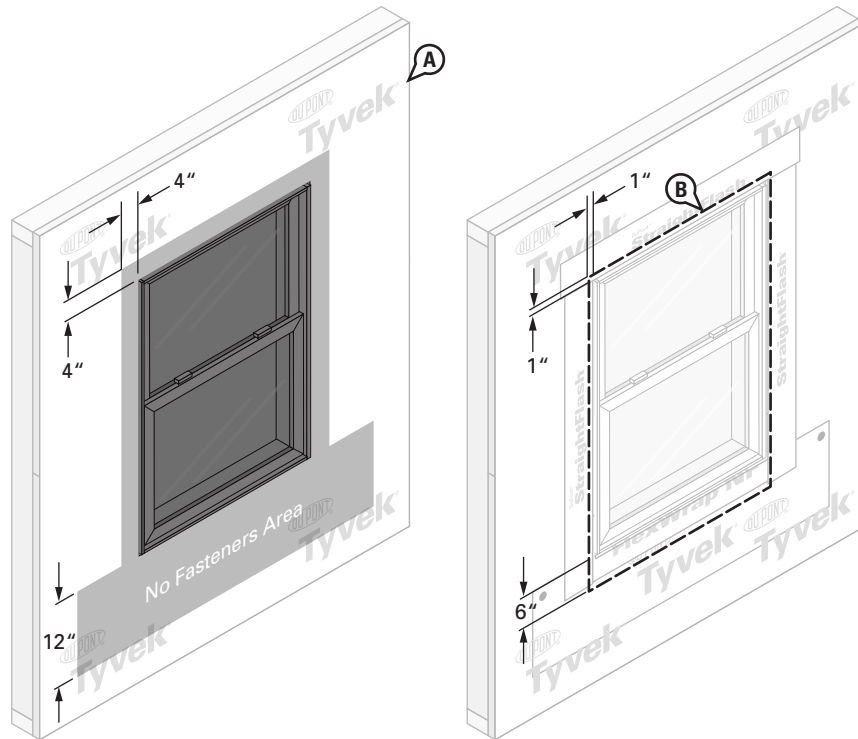
**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



## Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 8

- A. Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the window frame at jambs and head and within 12" of the window frame at sill or location of apron.
- B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the window frame, and 6" below the sill of the window frame.

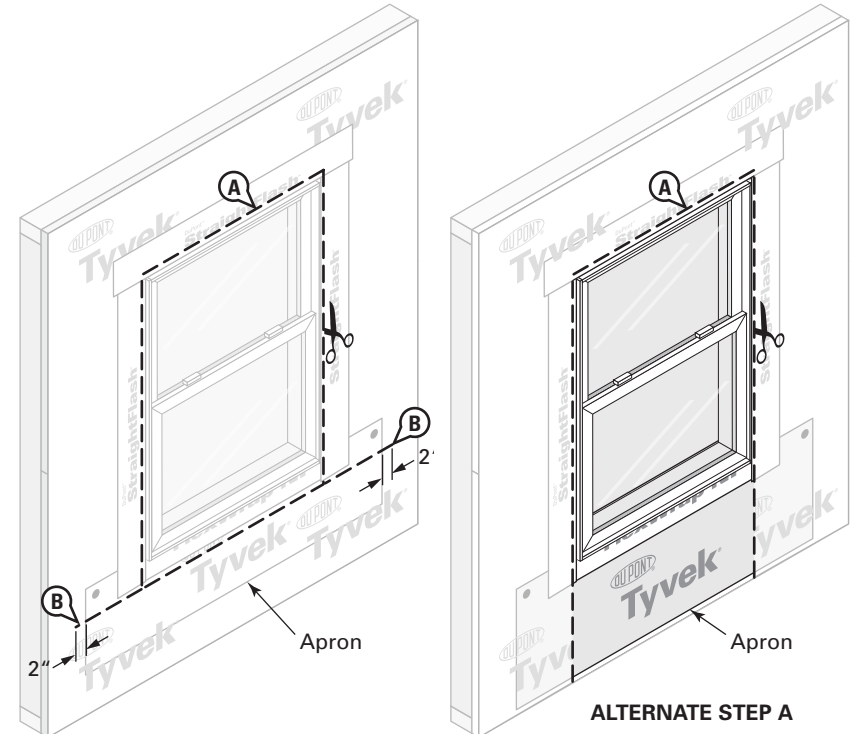


### STEP 9

- A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

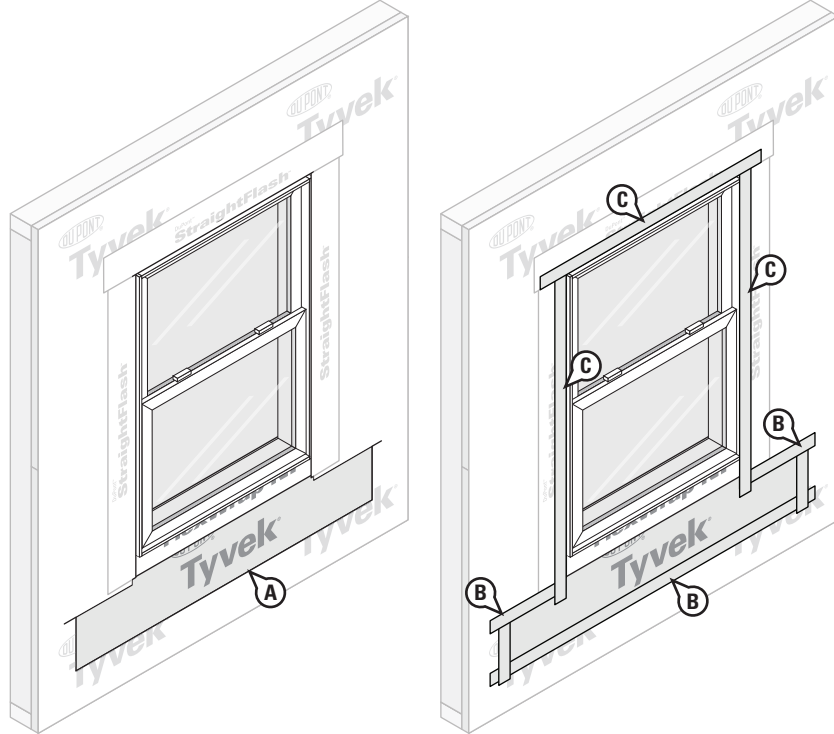
- B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



## Brick Mold Window BEFORE DuPont™ Tyvek® WRB Is Installed

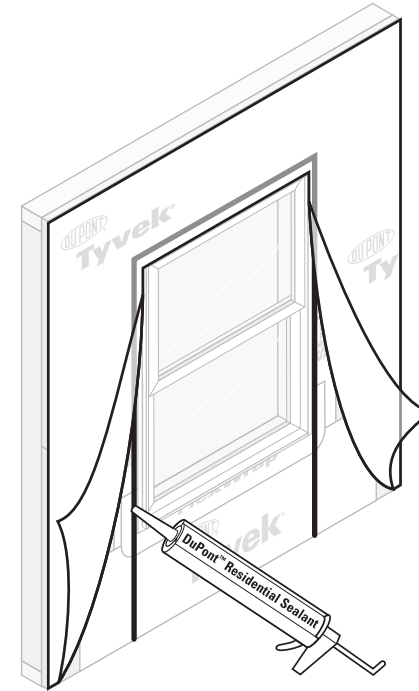
### STEP 10

- A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around window. **OPTIONAL:** If installing a drip cap **AFTER** the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 3.



### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 9A is followed.



Rectangular Window

## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

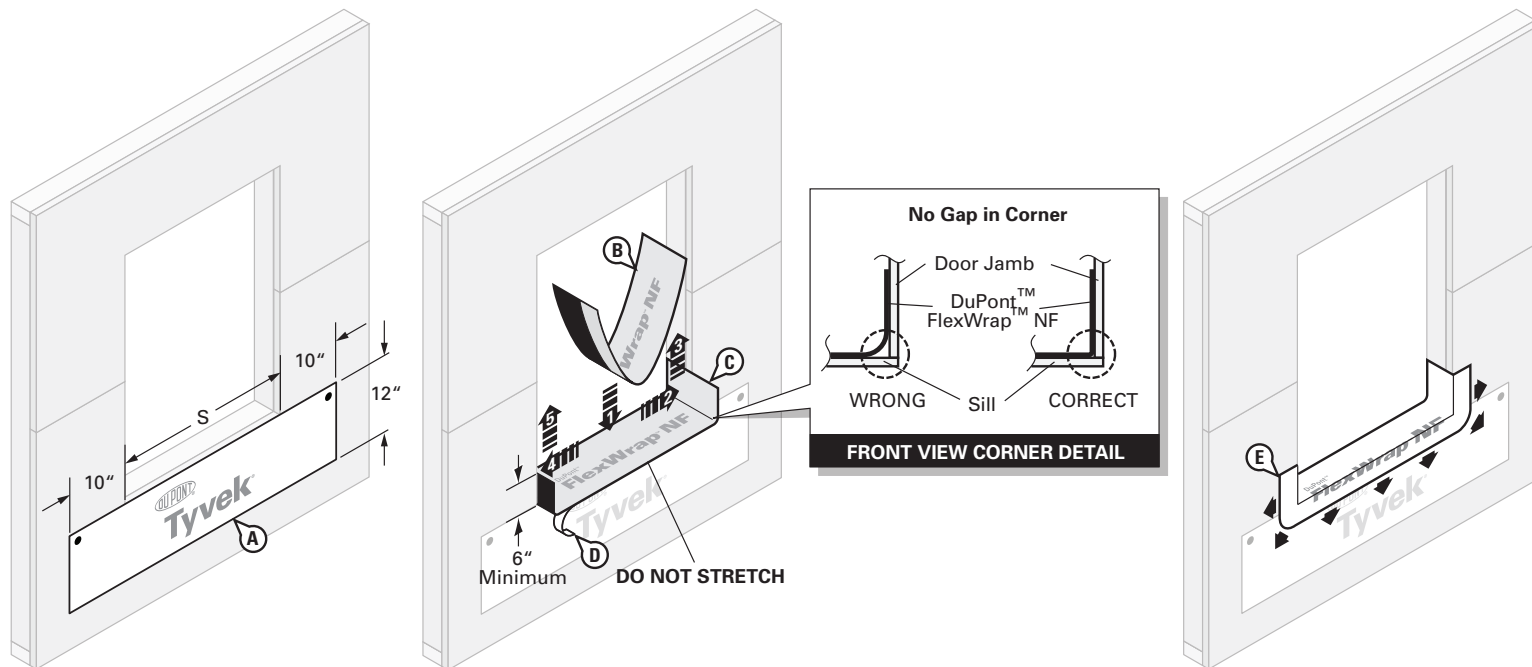
This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ StraightFlash™ VF, DuPont™ FlexWrap™ NF and DuPont™ Flashing Tape

#### STEP 1

A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the window. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.

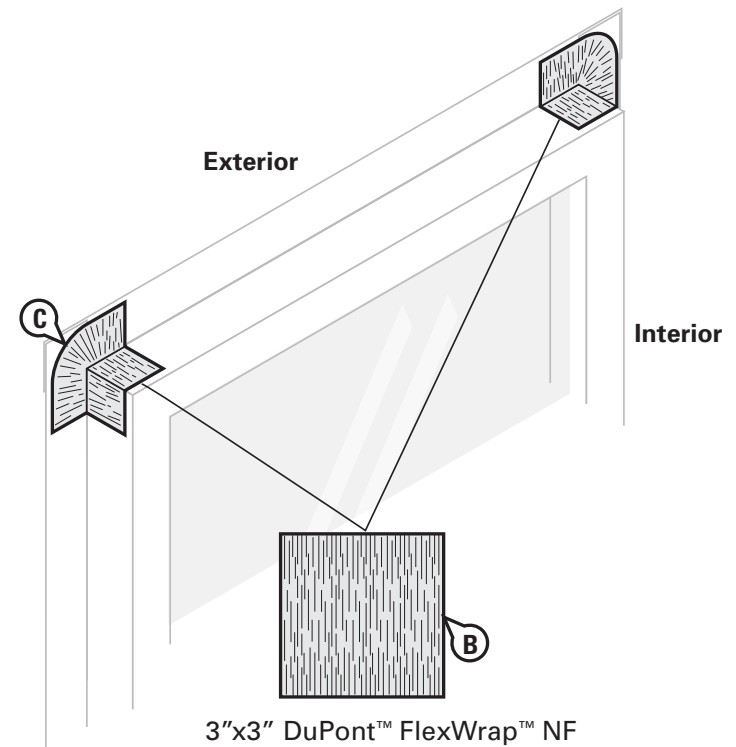
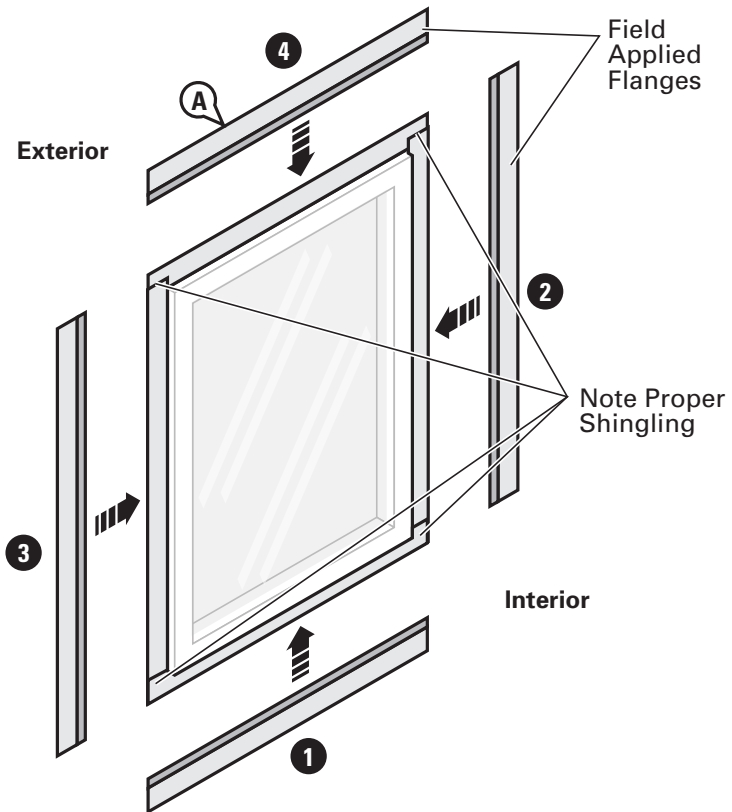
- B. Cut DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion BEYOND where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall.
- C. Remove wide piece of release paper. Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- D. Remove narrow release paper.
- E. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 2

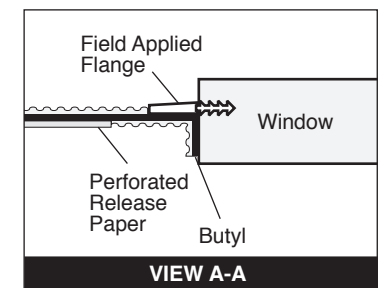
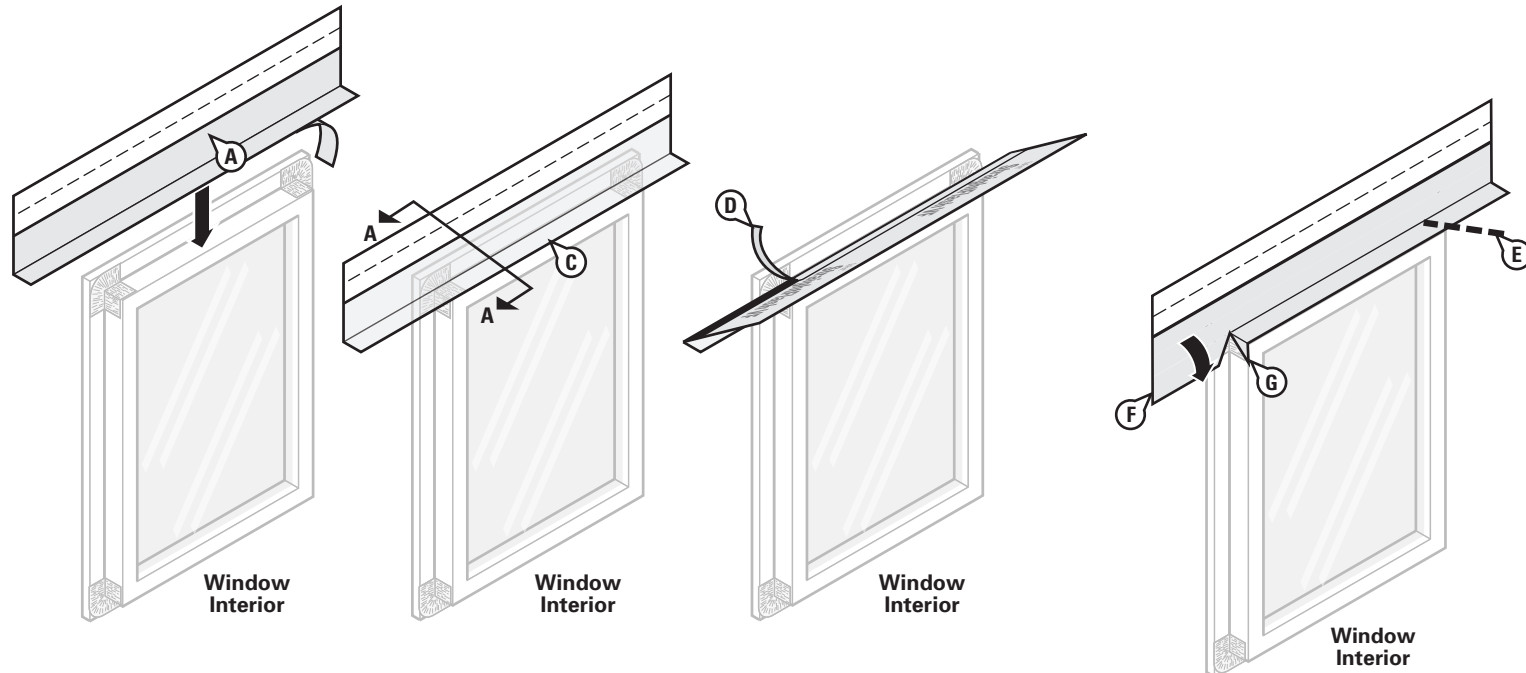
- A. Apply field applied flanges in the correct shingling fashion per manufacturer's installation instructions. **DO NOT REVERSE SHINGLE.**
- B. Cut four 3"x3" pieces of DuPont™ FlexWrap™ NF.
- C. Apply DuPont™ FlexWrap™ NF patches to back of flange corners before applying DuPont™ StraightFlash™ VF.



## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 3

- A. Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 12" **LONGER** than the head length.
- B. Break the perforated release paper on one side of the head flashing by folding it back and forth upon itself.
- C. Center the DuPont™ StraightFlash™ VF along the length of the window head and position so that it contacts the window frame and interior side of the flange. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner.
- D. Remove the inner release paper and adhere the flashing to the back of the flange.
- E. Beginning at the junction of the jamb and the head, and away from the corner, cut DuPont™ StraightFlash™ VF at a 45° angle.
- F. Fold the newly created flaps down against the flange.
- G. Fold remaining head flashing flaps down onto the jamb.

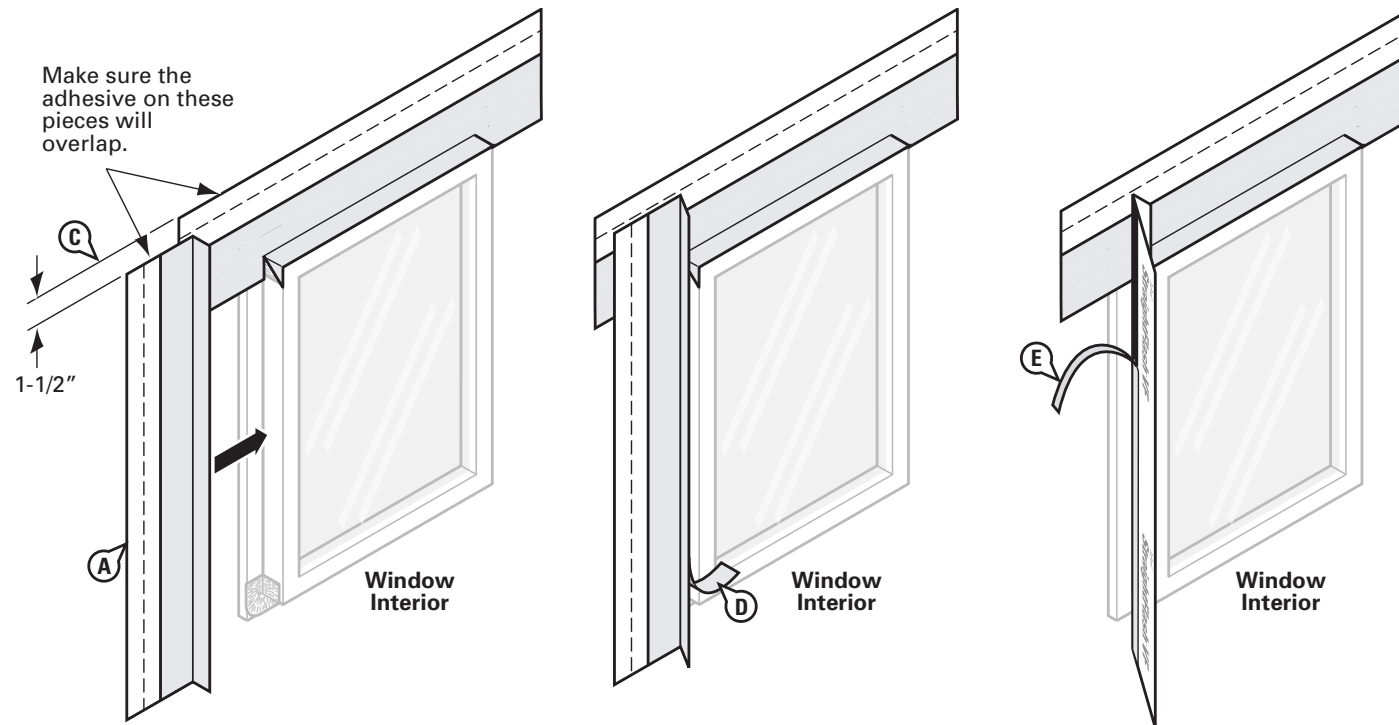




## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 4

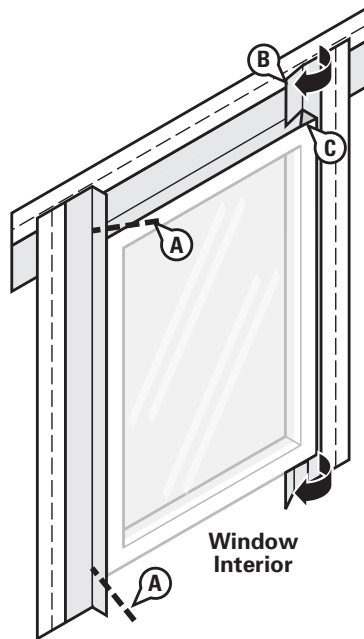
- A. Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 6" **LONGER** than the jamb.
- B. Break the perforated release paper on one side of the jamb flashing by folding it back and forth upon itself.
- C. Position so that the DuPont™ StraightFlash™ VF contacts the window frame and interior side of flange. Ensure that the jamb flashing is positioned 1-1/2" below the top edge of the head flashing. **Jamb flashing adhesive must come in contact with head flashing adhesive and overlap one inch.**
- D. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner.
- E. Remove the inner release paper and adhere the flashing to the back of the flange.
- F. Repeat on opposite jamb.



## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

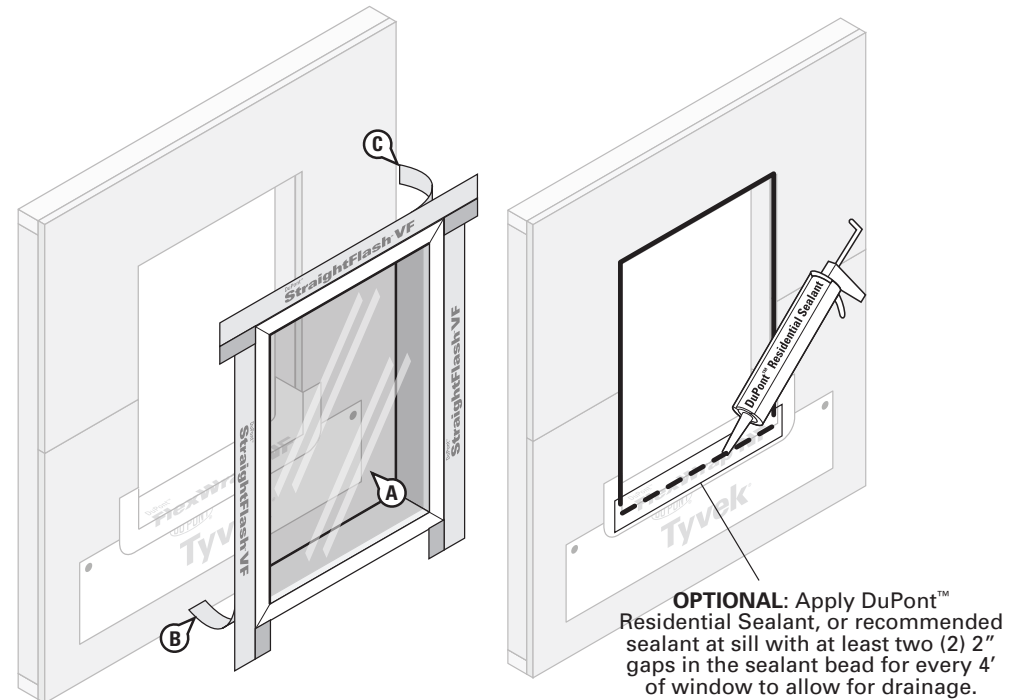
### STEP 5

- A. Beginning at the junction of the jamb and head, and away from the corner, cut the DuPont™ Straightflash™ VF at a 45° angle. Repeat the procedure at the junction of the sill and jamb.
- B. Fold cut jamb flashing parallel to the window frame so that the jamb flashing lies flat.
- C. Fold remaining jamb flashing flaps down at all corners and adhere to the window frame.



### STEP 6

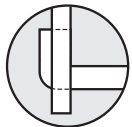
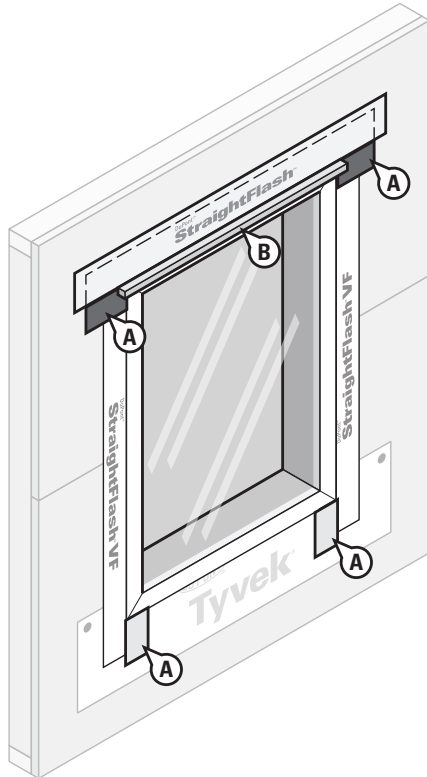
- A. Install window according to manufacturer's installation instructions.
- B. Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.
- C. Remove the release paper at the head and adhere the DuPont™ StraightFlash™ VF to the exterior sheathing or framing members.



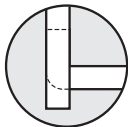
## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 7

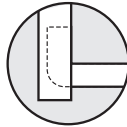
- A. **OPTIONAL:** Cover exposed butyl with DuPont™ StraightFlash™, DuPont™ Flashing Tape or DuPont™ Tyvek® Tape.
- B. **OPTIONAL:** If installing a drip cap as part of the window installation BEFORE the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.



**INCORRECT**  
DuPont™  
FlexWrap™ NF  
reverse flashed



**INCORRECT**  
DuPont™ StraightFlash™  
flush with DuPont™  
FlexWrap™ NF



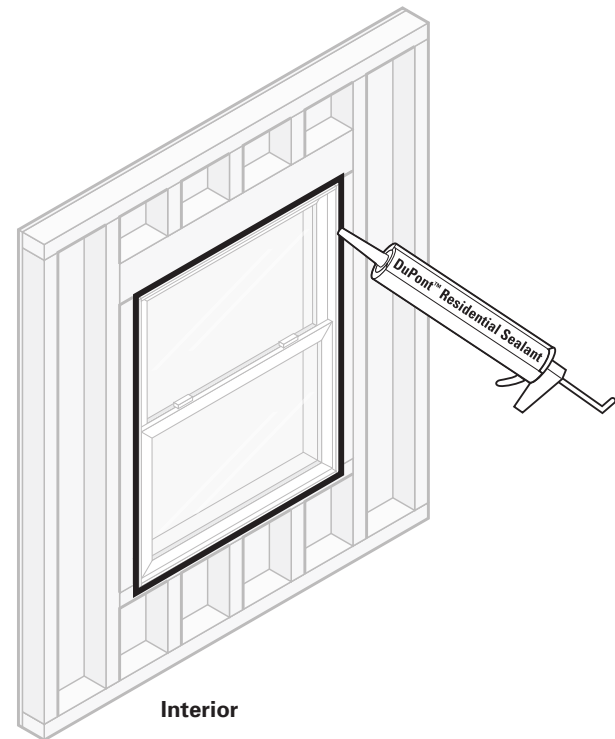
**CORRECT**  
DuPont™ StraightFlash™  
overlaps DuPont™  
FlexWrap™ NF

**NOTE:** Do not reverse shingle. DuPont™ StraightFlash™ must overlap DuPont™ FlexWrap™ NF and adhere to the substrate.

### STEP 8

Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. **DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

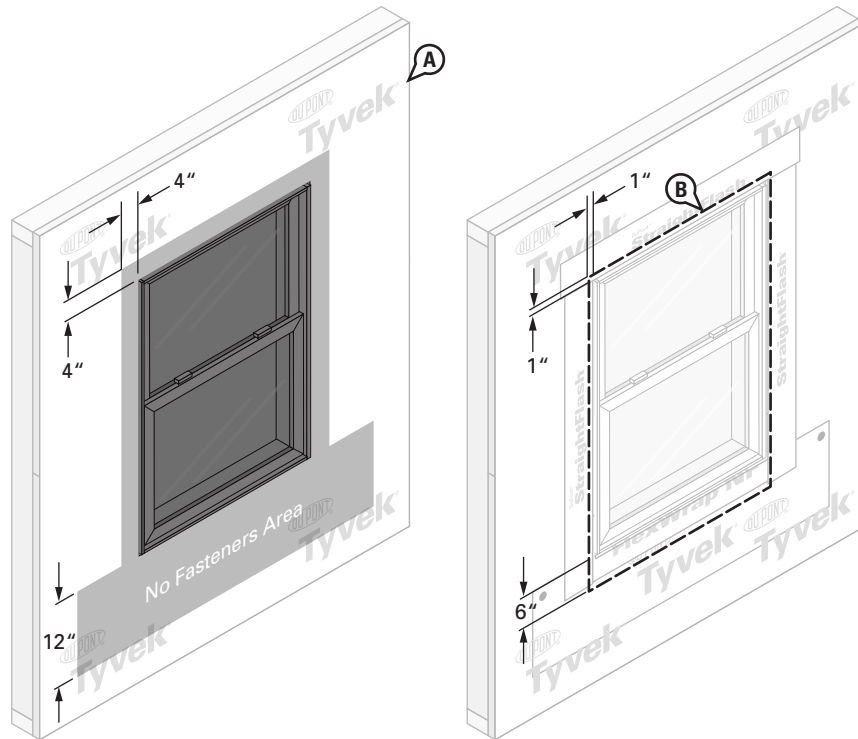
**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 9

- A. Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the window frame at jambs and head and within 12" of the window frame at sill or location of apron.
- B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the window frame, and 6" below the sill of the window frame.

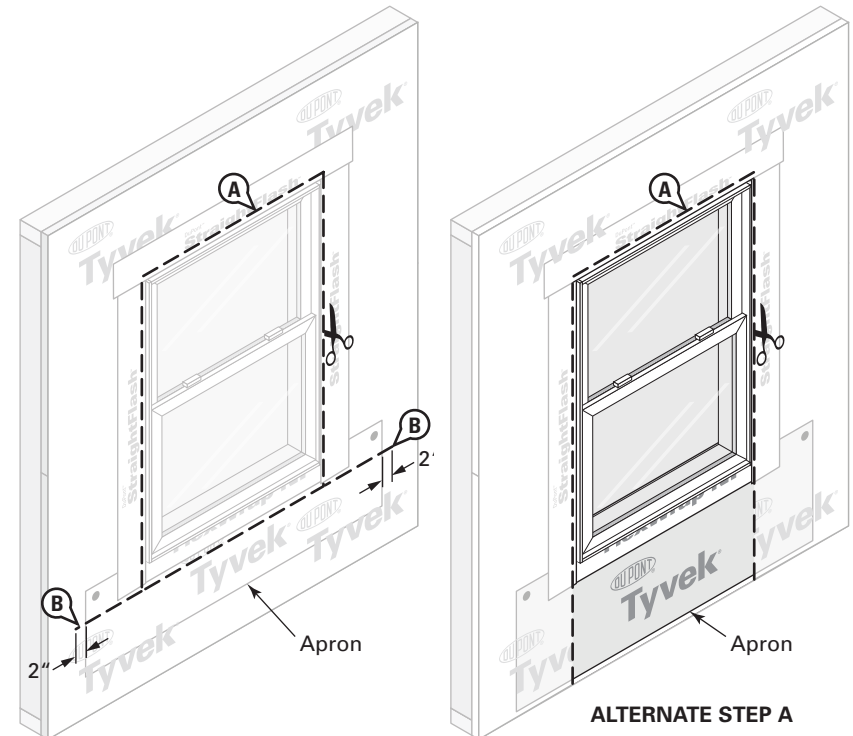


### STEP 10

- A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

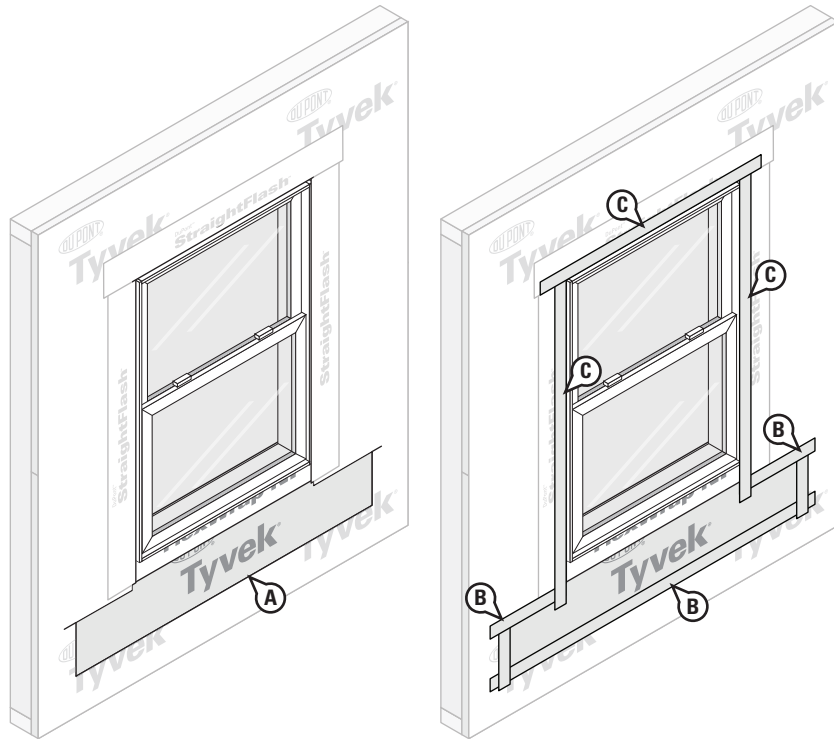
- B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



## Field Applied Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

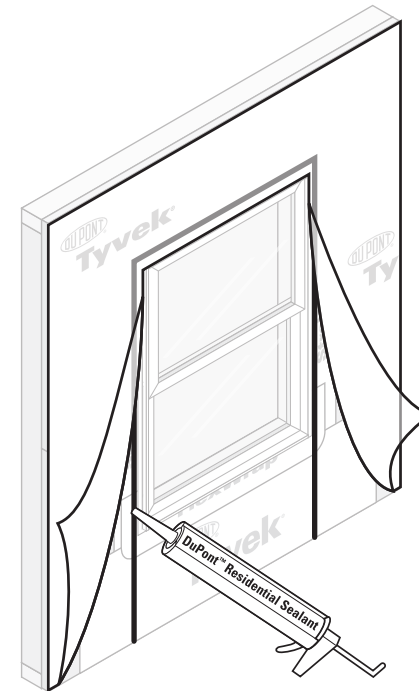
### STEP 11

- A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around window.



### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 10A is followed.



Rectangular Window

## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

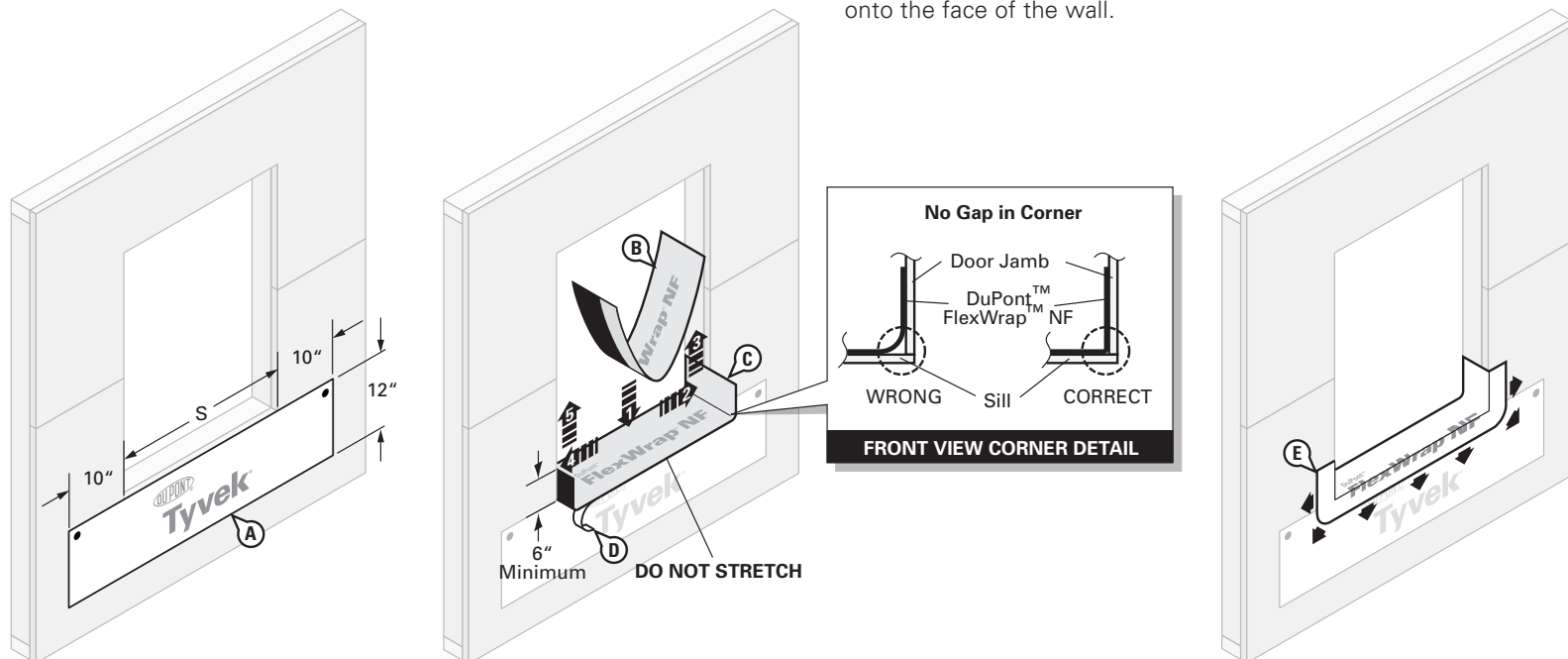
This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ StraightFlash™ VF, DuPont™ FlexWrap™ NF, and DuPont™ Flashing Tape

#### STEP 1

A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the window. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.

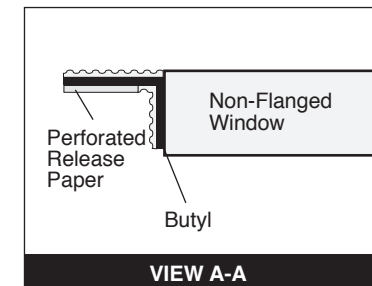
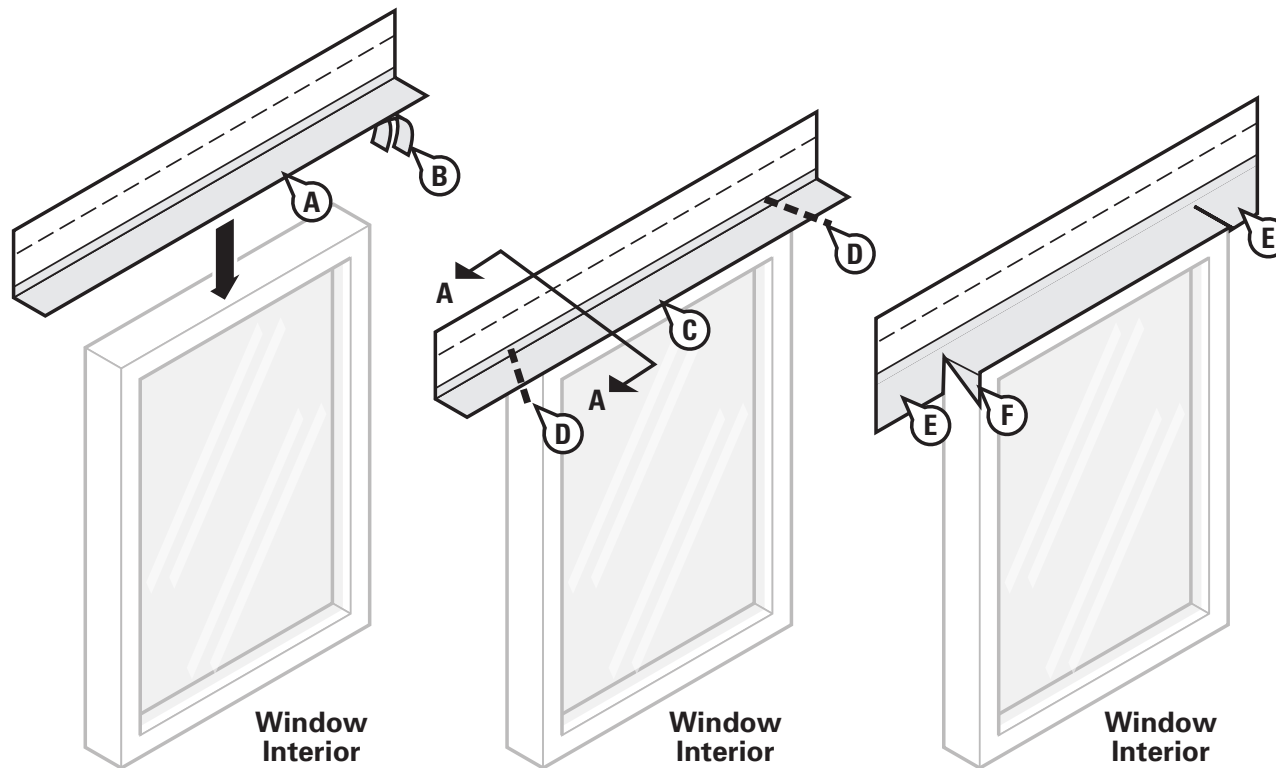
- B. Cut DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion BEYOND where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall.
- C. Remove wide piece of release paper. Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- D. Remove narrow release paper.
- E. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 2

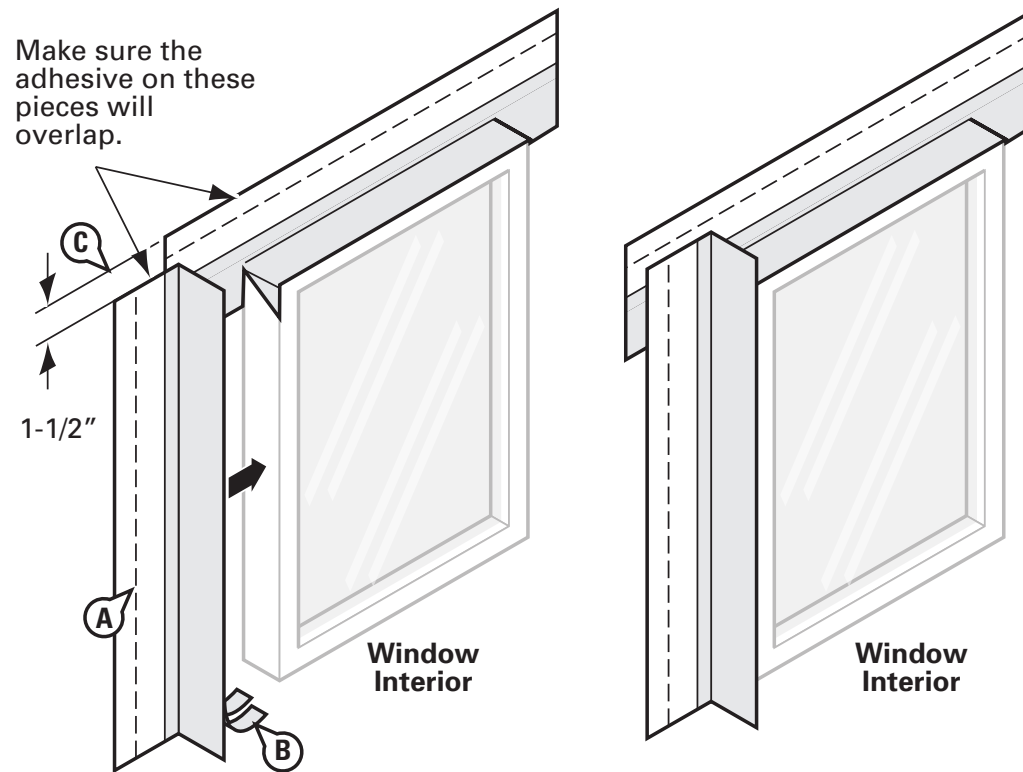
- A. Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 12" **LONGER** than the head length.
- B. Remove the release paper from one side of DuPont™ StraightFlash™ VF.
- C. Center the DuPont™ StraightFlash™ VF along the length of the window and position so that it contacts the window frame.
- D. Beginning at the junction of the jamb and head and away from the corners, cut the DuPont™ Straightflash™ VF at a 45° angle.
- E. Fold the newly created flashing flaps down parallel to the window frame.
- F. Fold remaining head flashing flaps down onto the jamb.



## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 3

- A. Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 6" **LONGER** than the jamb length.
- B. Remove the release paper from one side of DuPont™ StraightFlash™ VF.
- C. Position the DuPont™ StraightFlash™ VF so that it contacts the window frame up to the exterior face of the window. Ensure that the jamb flashing is positioned 1-1/2" below top of head flashing. **Jamb flashing adhesive must come in contact with head flashing adhesive and overlap by one inch.**
- D. Repeat on opposite jamb.

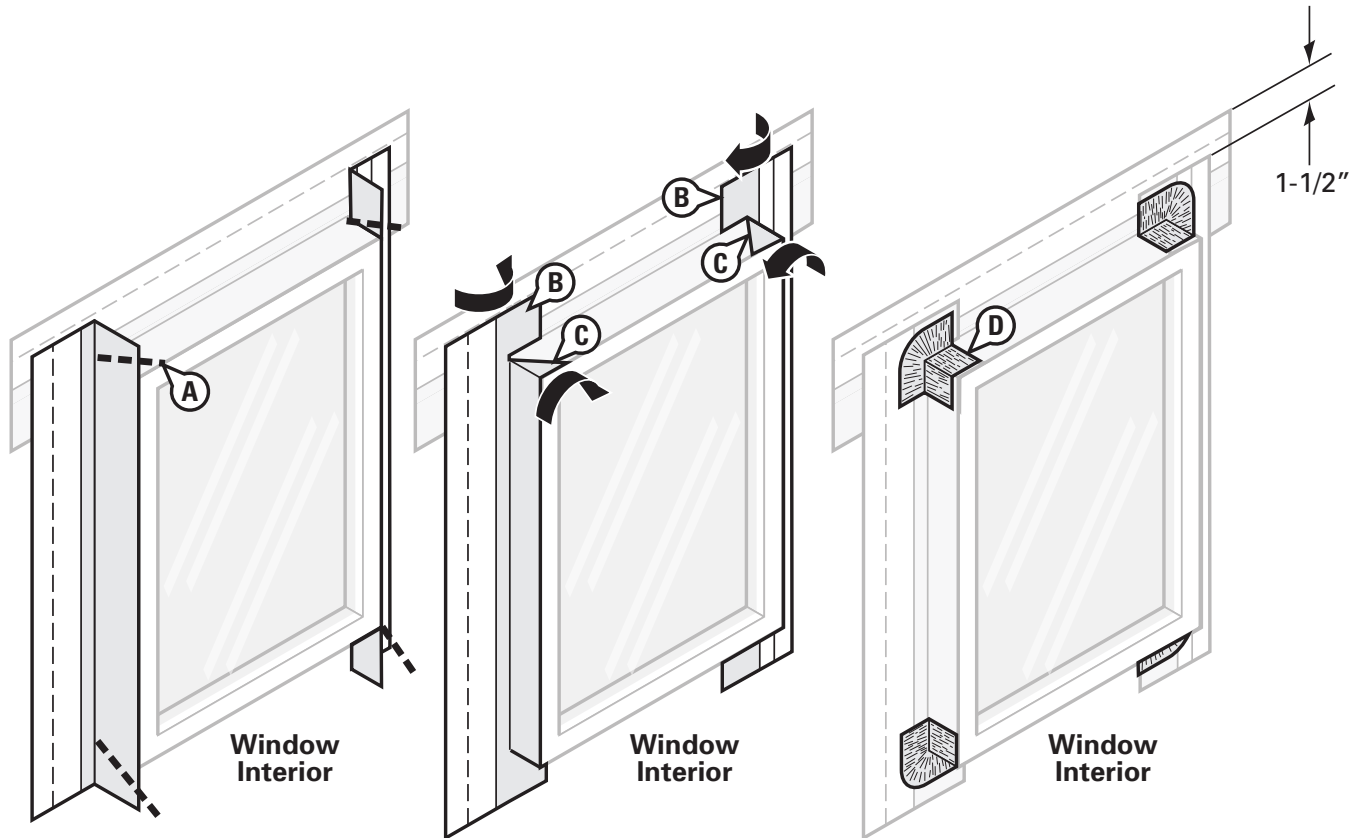




## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 4

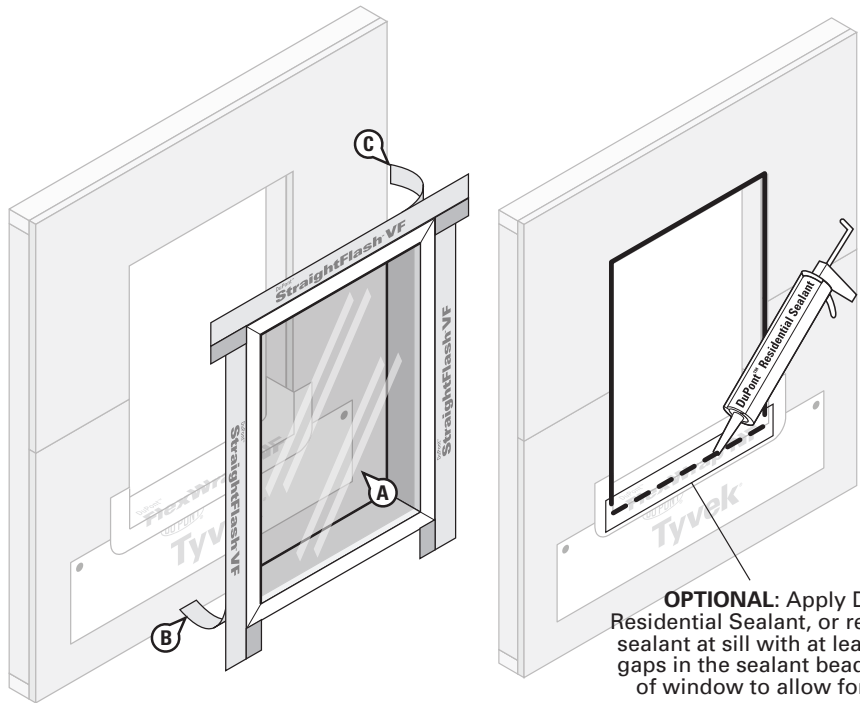
- A. Beginning at the junction of the jambs and the head, and away from the corners, cut the DuPont™ StraightFlash™ VF at a 45° angle. Repeat the procedure at the junction of the sill and jambs.
- B. Fold cut jamb flashing parallel to the window frame so that the jamb flashing lies flat.
- C. Fold remaining jamb flashing flaps down at all corners and adhere to the window frame.
- D. Cut four 3"x 3" pieces of DuPont™ FlexWrap™ NF and add patches to corners of the window.



## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 5

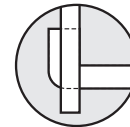
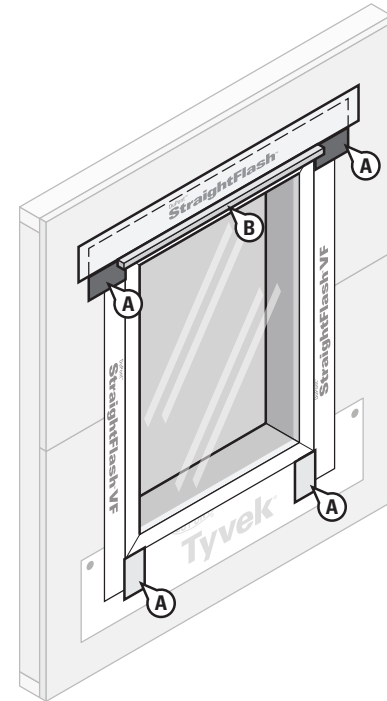
- Install window according to manufacturer's installation instructions.
- Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.
- Remove the release paper at the head and adhere the DuPont™ StraightFlash™ VF to the exterior sheathing or framing members.



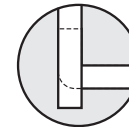
**OPTIONAL:** Apply DuPont™ Residential Sealant, or recommended sealant at sill with at least two (2) 2" gaps in the sealant bead for every 4' of window to allow for drainage.

### STEP 6

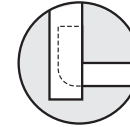
- OPTIONAL:** Cover exposed butyl with DuPont™ StraightFlash™, DuPont™ Flashing Tape or DuPont™ Tyvek® Tape.
- OPTIONAL:** If installing a drip cap as part of the window installation BEFORE the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.



**INCORRECT**  
DuPont™ StraightFlash™ NF  
FlexWrap™ NF  
reverse flashed



**INCORRECT**  
DuPont™ StraightFlash™ NF  
flex with DuPont™ FlexWrap™ NF



**CORRECT**  
DuPont™ StraightFlash™ NF  
overlaps DuPont™ FlexWrap™ NF

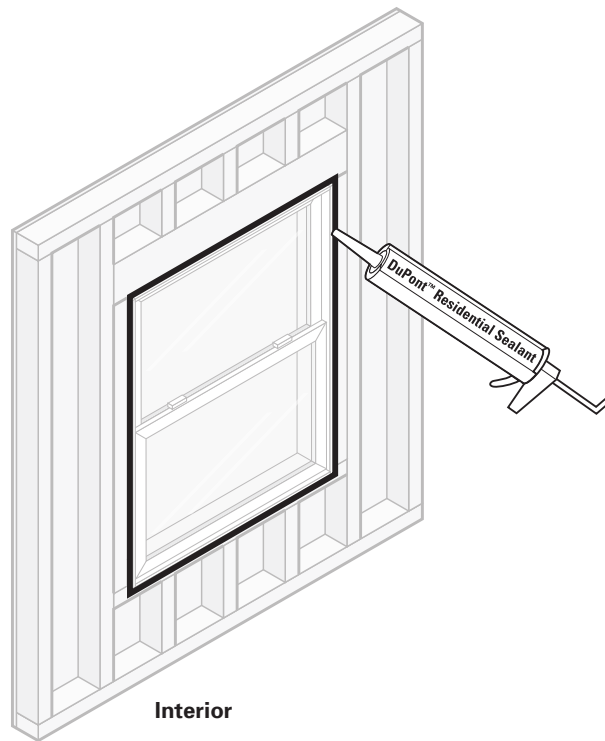
**NOTE:** Do not reverse shingle. DuPont™ StraightFlash™ must overlap DuPont™ FlexWrap™ NF and adhere to the substrate.

## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 7

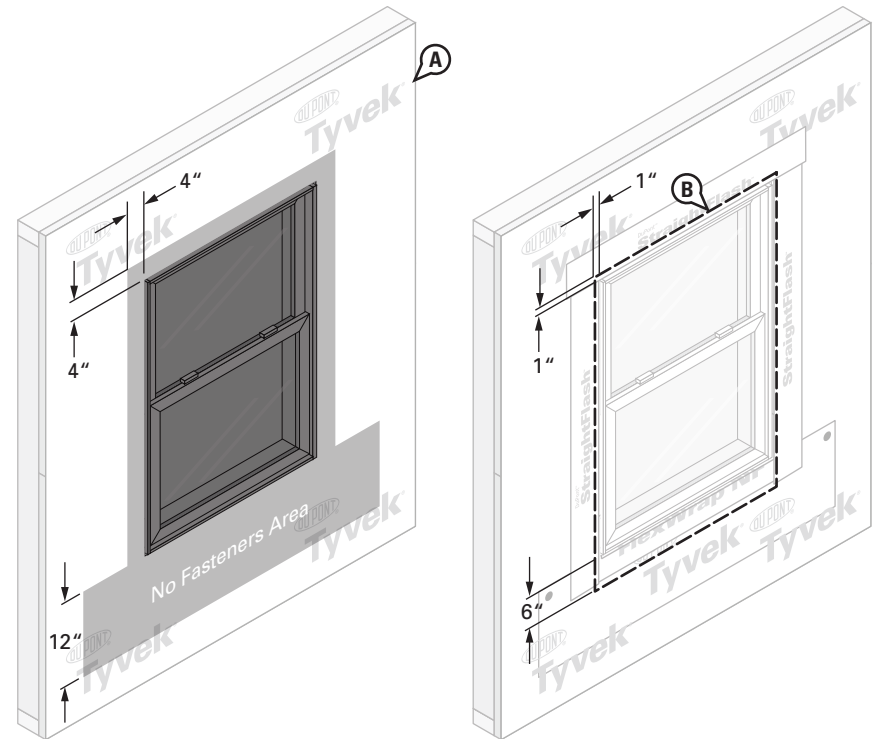
Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. **DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



### STEP 8

- A. Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistant and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the window frame at jambs and head and within 12" of the window frame at sill or location of apron.
- B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the window frame, and 6" below the sill of the window frame.



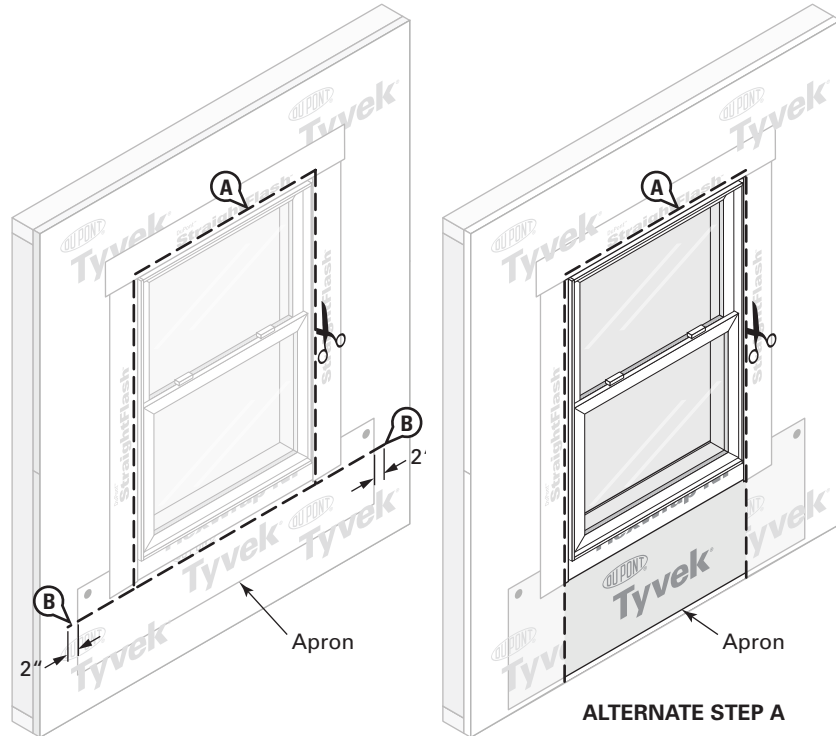
## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 9

A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.

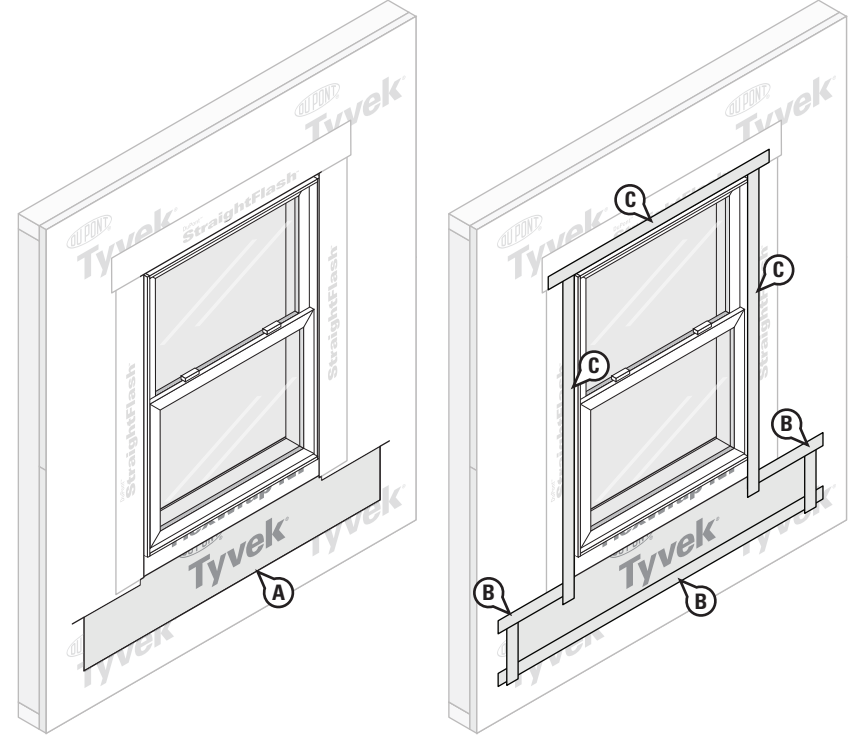


### STEP 10

A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.

B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.

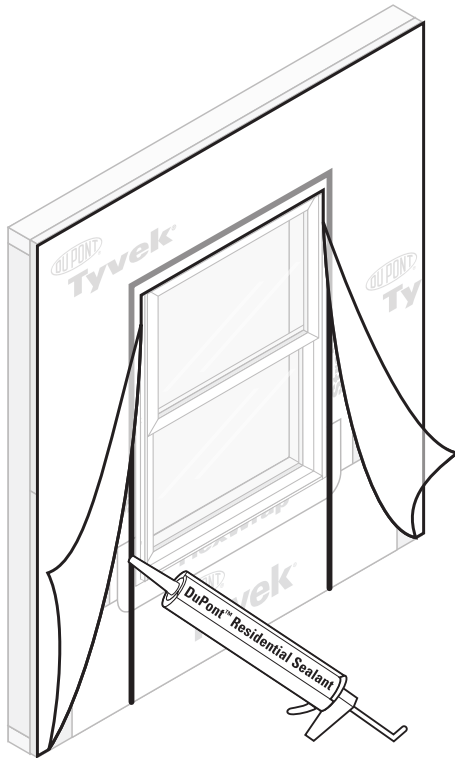
C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around window. **OPTIONAL:** If installing a drip cap **AFTER** the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 3.



## Non-Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 9A is followed.



## Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

### Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

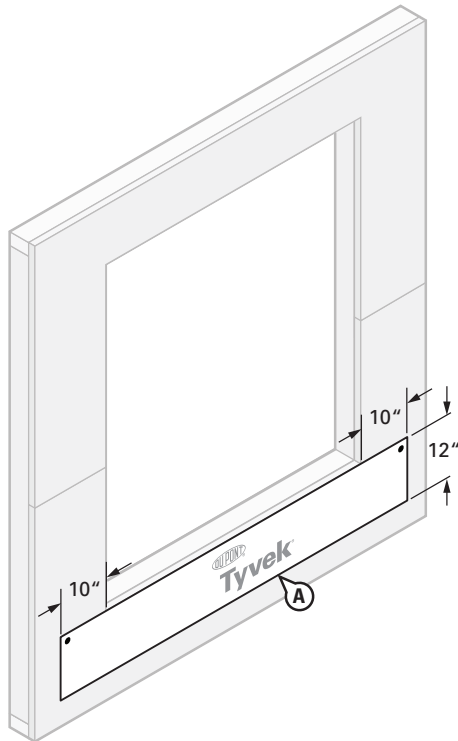
This installation guideline is intended for doors installed above grade and/or with wood floor construction.

This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF and DuPont™ Flashing Tape

#### STEP 1

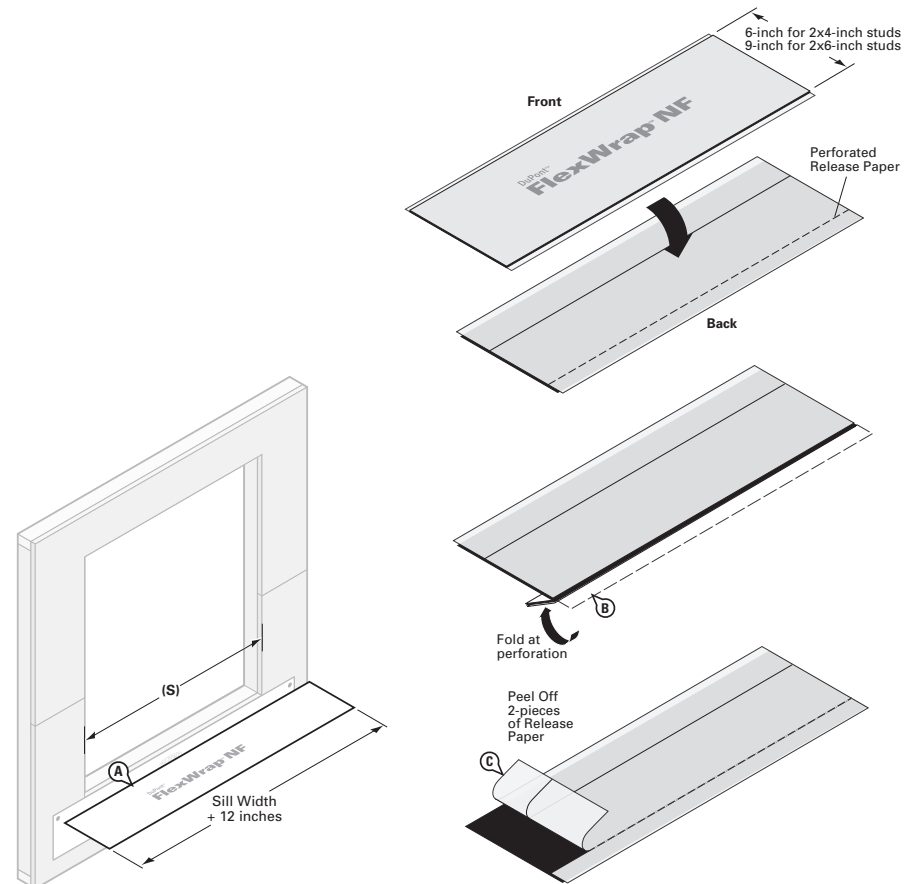
- A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the door. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.



#### STEP 2

Preparation of sill flashing:

- A. Cut 9" DuPont™ FlexWrap™ NF at least 12" **LONGER** than the width of the sill (S).
- B. 9" DuPont™ FlexWrap™ NF has perforated release paper to help with the formation of a back dam. To ensure that the perforation tears cleanly, fold the perforation 180° and crease the flashing.
- C. Remove the two widest pieces of release paper leaving the narrowest release paper on the flashing. When the finished floor is applied, the remaining release paper can be removed and the back dam can be completed.

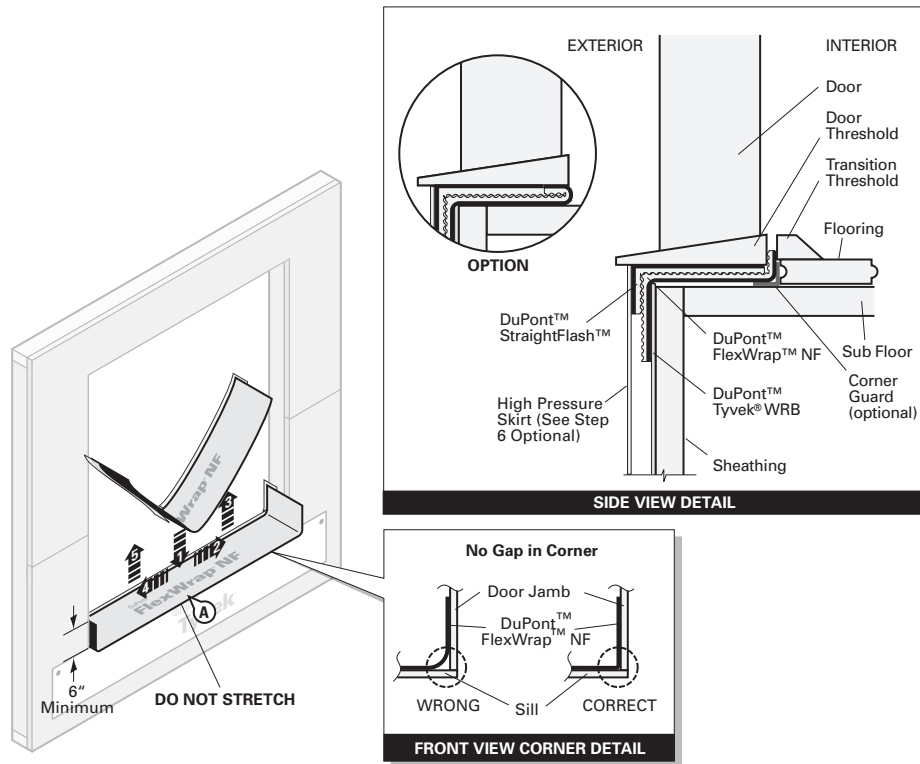


## Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 3

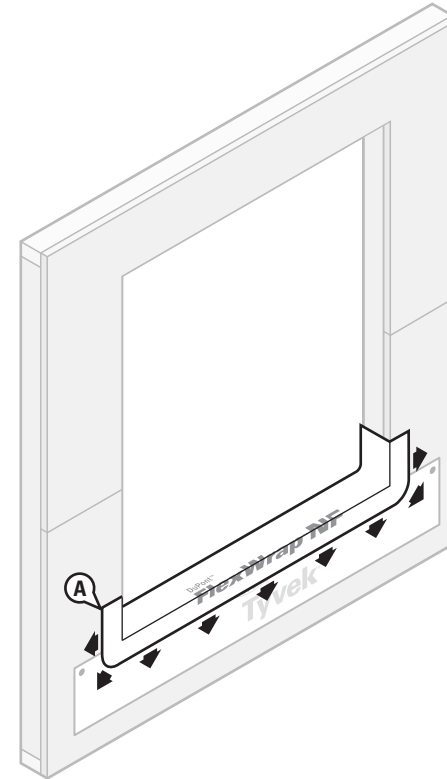
A. Position the sill flashing as indicated so the section with the release paper still attached extends past the door threshold on the inside. Ensure that 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening. When the narrow release paper is removed, the remaining section of DuPont™ FlexWrap™ NF can be used to form a back dam.

**OPTIONAL: Create back dam by folding back narrow section of DuPont™ FlexWrap™ NF.** Some flooring cannot accommodate a back dam. In that case fold the back dam on top of DuPont™ FlexWrap™ NF in the sill. The door will be installed on top of the fold to create a back dam (see Side View Detail below).



### STEP 4

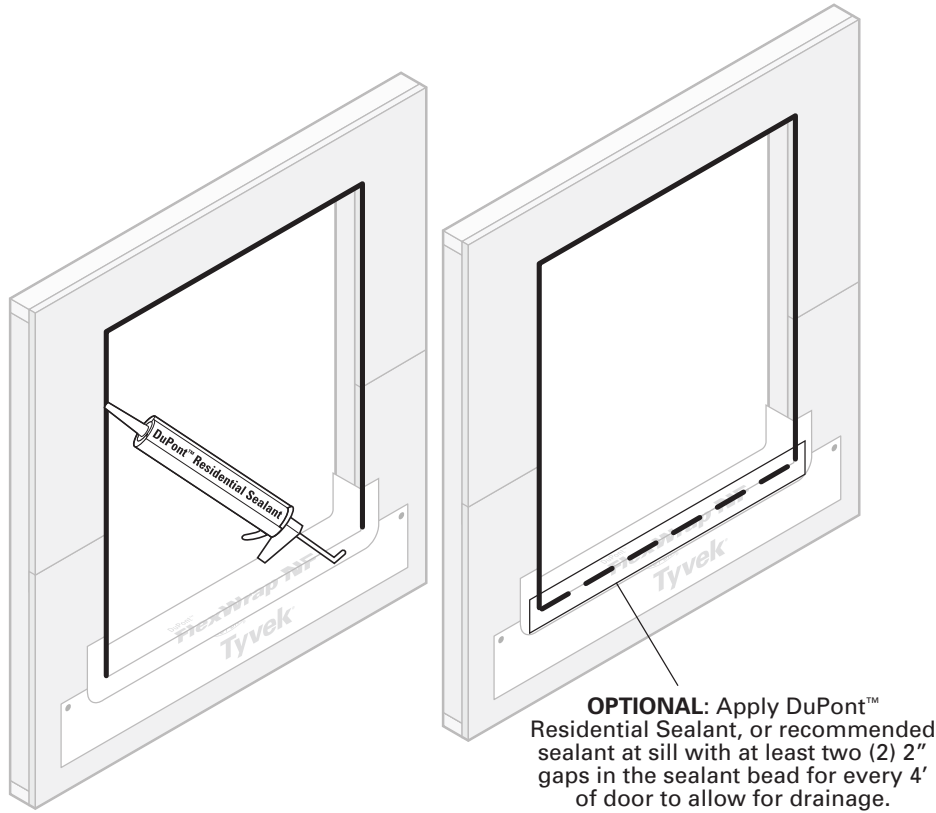
A. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 5

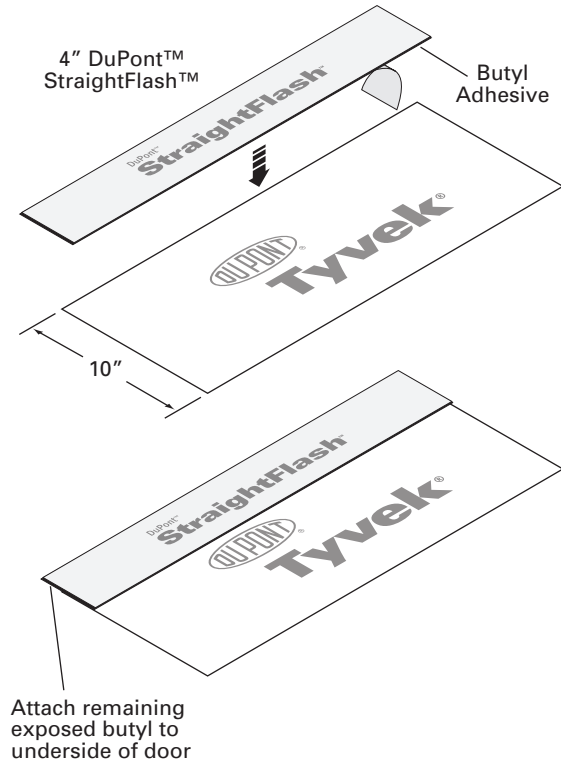
Apply DuPont™ Residential Sealant, or recommended sealant, on three sides (jambs and head) as shown below.



### STEP 6 (OPTIONAL - HIGH PRESSURE SKIRT)

For extreme weather conditions, performance requirements exceeding ASTM E1677, or window/door design ratings of DP45 or greater, see *General Instructions*.

- Create the high pressure skirt by cutting a piece of DuPont™ Tyvek® WRB 1" wider than the width of door opening and approximately 10" in depth.
- Cut a piece of DuPont™ StraightFlash™ or DuPont™ Flashing Tape to the same width as the skirt. Remove release paper and adhere 2" of the exposed butyl to the DuPont™ Tyvek® WRB.
- The skirt may be made with DuPont™ StraightFlash™, DuPont™ Flashing Tape, or DuPont™ StraightFlash™ VF.

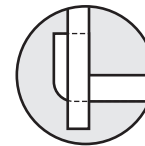
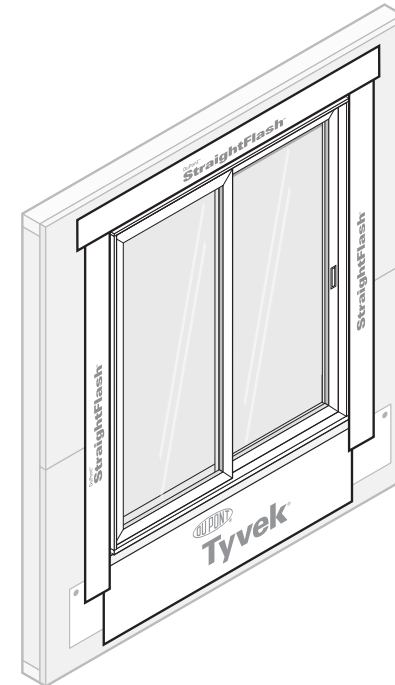
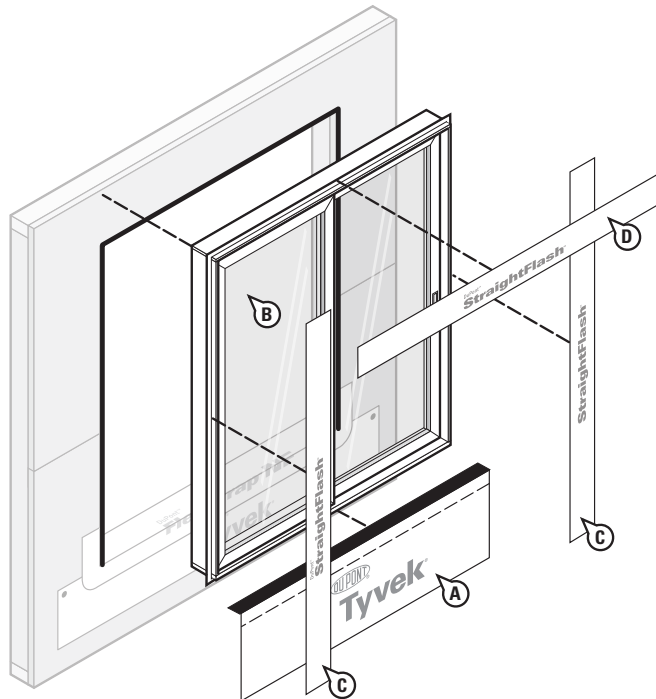




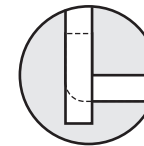
## Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 7

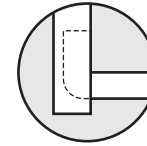
- A. **OPTIONAL:** Adhere high pressure skirt to bottom of threshold of the door.
- B. Install door according to manufacturer's instructions.
- C. Cut two pieces of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, or DuPont™ Flashing Tape for jamb flashing extending 1" above door head flange and below bottom edge of high pressure skirt. Remove release paper and press tightly along sides of door frame. **OPTIONAL:** If installing a drip cap as part of the door installation before the DuPont™ self-adhered flashing membrane at the door head flange, see *Drip Cap Installation* section and refer to Option 1. **NOTE:** The vertical leg of the drip cap must not be taller than the door head flange when installing drip cap according to Option 1.
- D. Cut a piece of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF or DuPont™ Flashing Tape for head flashing long enough to extend beyond outer edges of jamb flashings. Remove release paper and install completely covering mounting flange and adhering to exposed sheathing or framing members. **OPTIONAL:** If installing a drip cap as part of the door installation, but after the door head flashing, see *Drip Cap Installation* section and refer to Option 2.



**INCORRECT**  
DuPont™  
FlexWrap™ NF  
reverse flashed



**INCORRECT**  
DuPont™ StraightFlash™  
flush with DuPont™  
FlexWrap™ NF



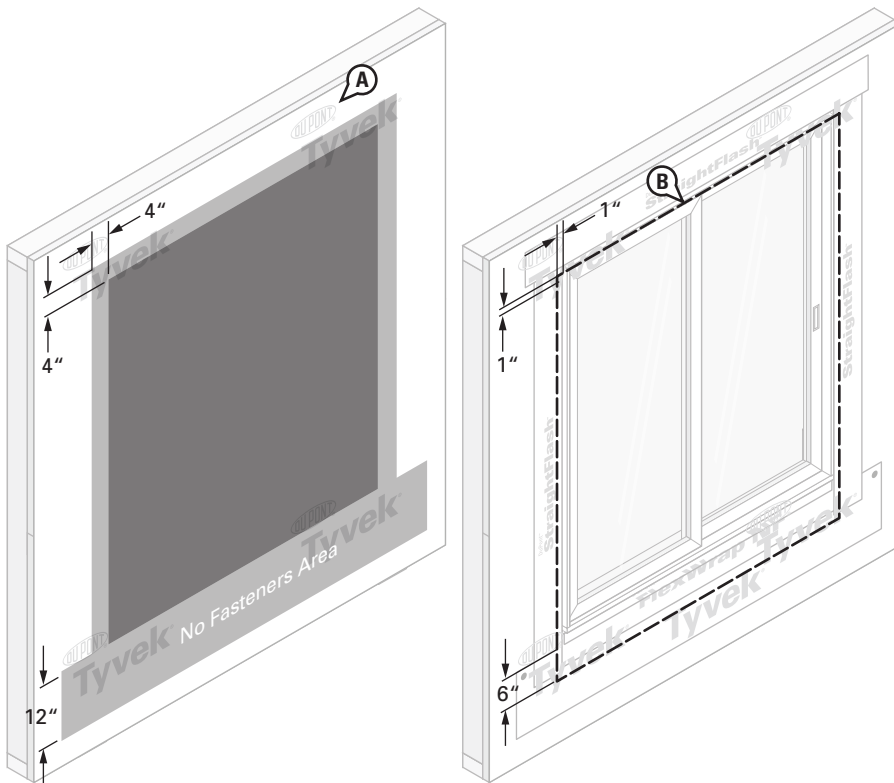
**CORRECT**  
DuPont™ StraightFlash™  
overlaps DuPont™  
FlexWrap™ NF

**NOTE:** Ensure proper shingling. DuPont™ StraightFlash™, DuPont™ Flashing Tape, or DuPont™ FlexWrap™ NF at jambs must overlap the DuPont™ FlexWrap™ NF at the sill and adhere to the DuPont™ Tyvek® WRB apron below the sill.

## Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

### STEP 8

- Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the door frame at jambs and head and within 12" of the door frame at sill or location of apron.
- Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the door frame, and 6" below the sill of the door frame.

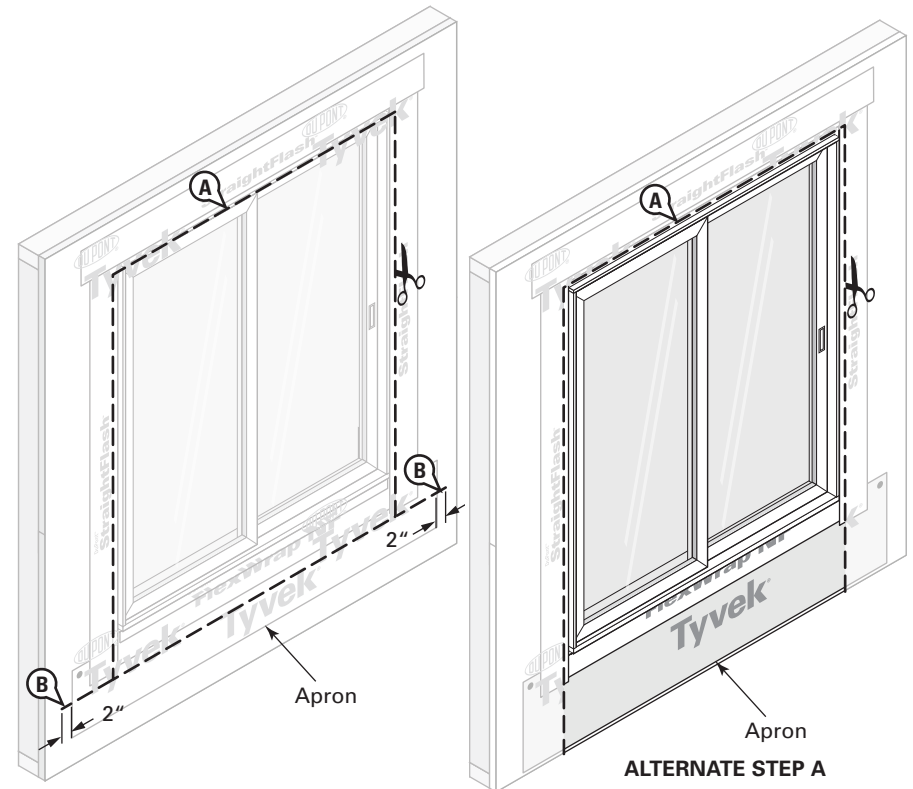


### STEP 9

- Cut the DuPont™ Tyvek® WRB along perimeter marking to expose door. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

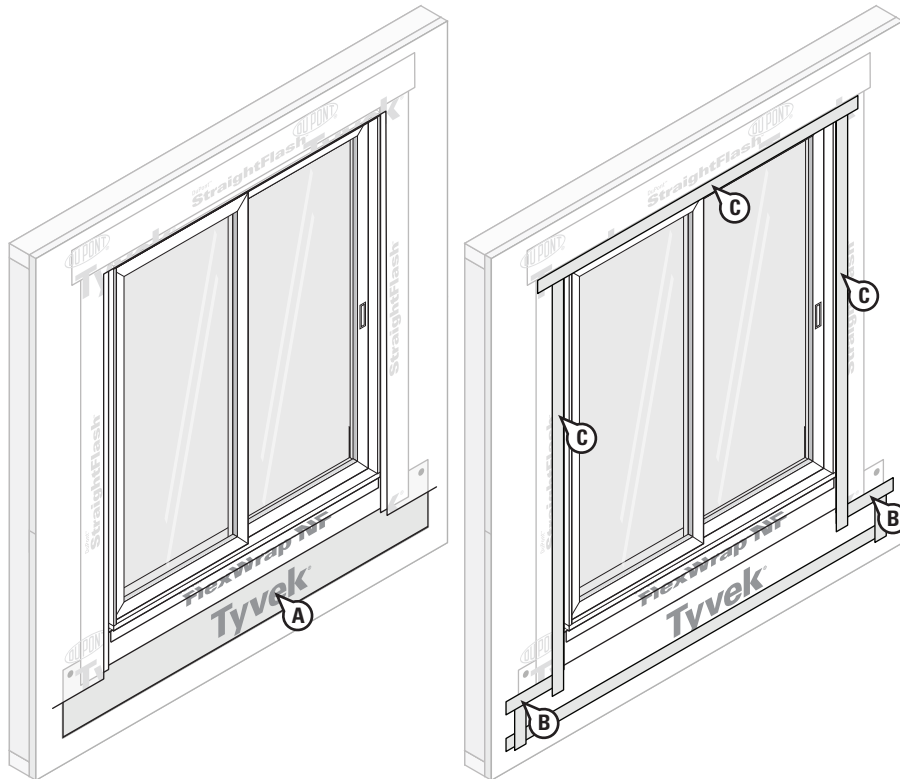
- Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



## Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

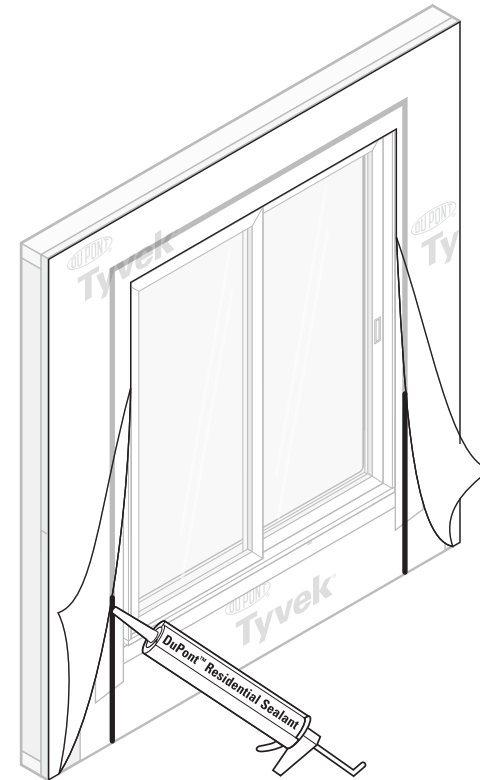
### STEP 10

- A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around door.



### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 8A is followed.



## Integral Flanged Door BEFORE DuPont™ Tyvek® WRB is Installed

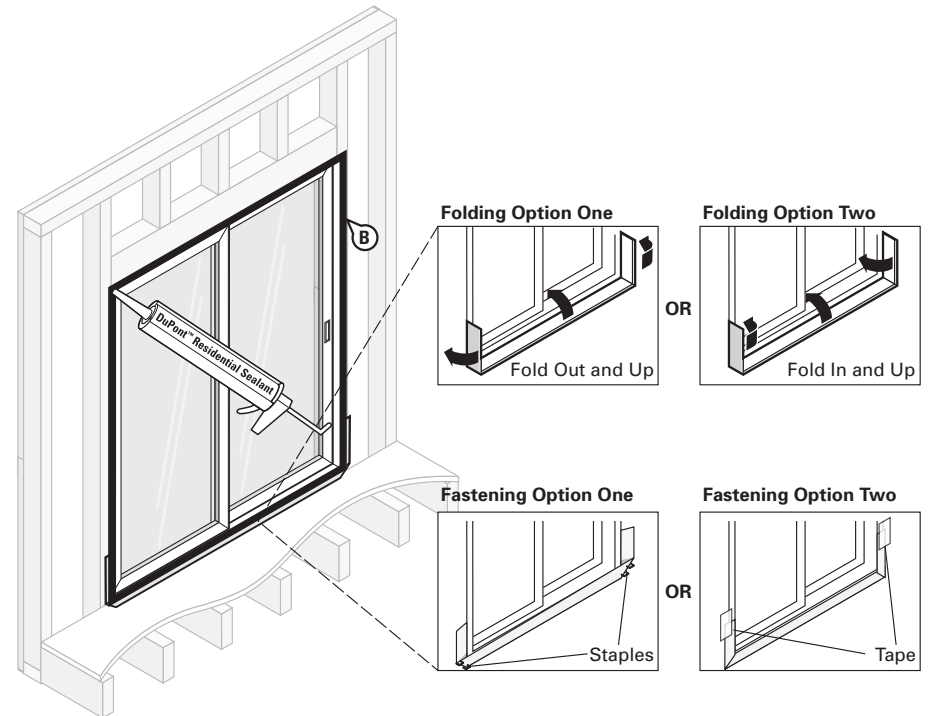
### STEP 11

#### Final Step

- A. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two (shown below) to form back dam.
- B. Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the door opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam.

**DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

### Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

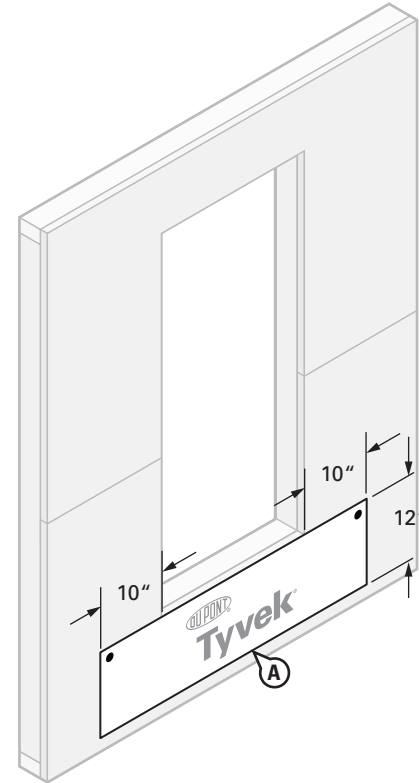
This installation guide is intended for doors installed above grade and with wood floor construction.

This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ StraightFlash™ VF, DuPont™ FlexWrap™ NF, and DuPont™ Flashing Tape

#### STEP 1

- A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the door. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.

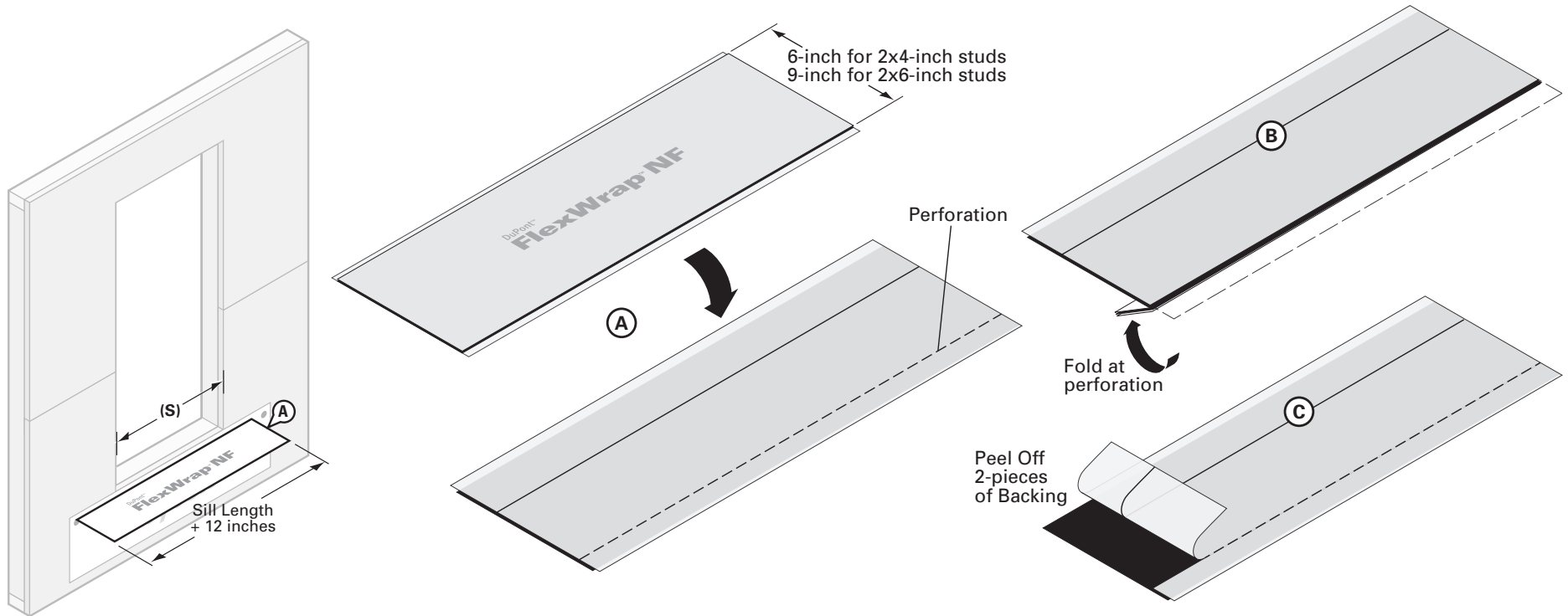


## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 2

Preparation of sill flashing:

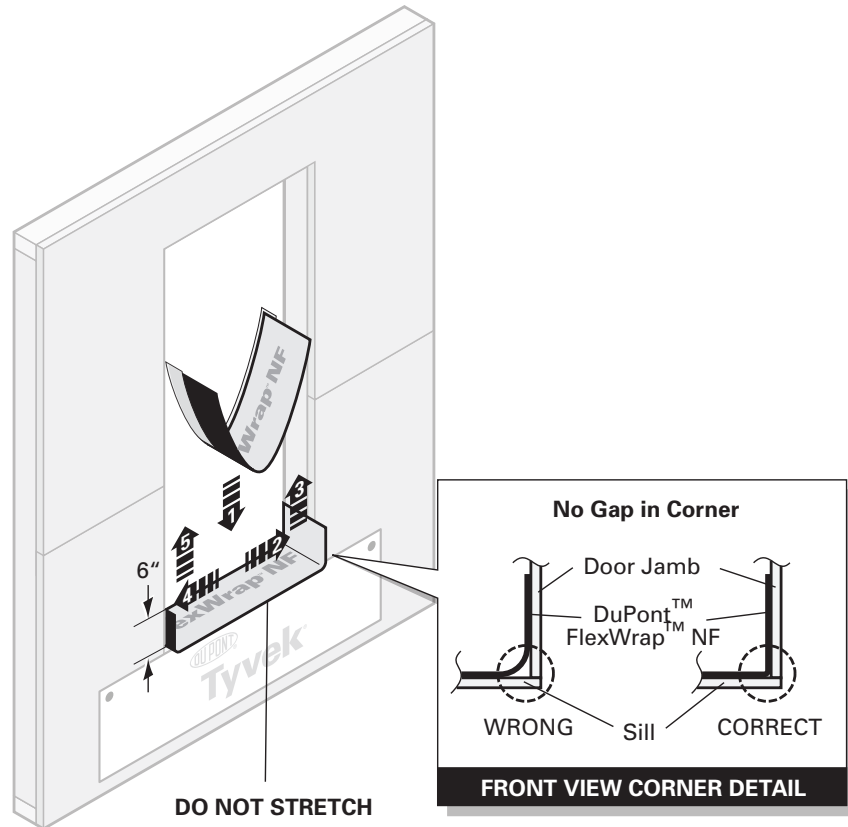
- A. Cut 9" DuPont™ FlexWrap™ NF at least 12" **LONGER** than the width of the sill (S).
- B. 9" DuPont™ FlexWrap™ NF has perforated release paper to help with the formation of a back dam. To ensure that the perforation tears cleanly, fold the perforation 180° and crease the flashing.
- C. Remove the widest pieces of release paper leaving the narrowest release paper on the flashing. When the finished floor is applied, the release paper can be removed and the back dam can be completed.



## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

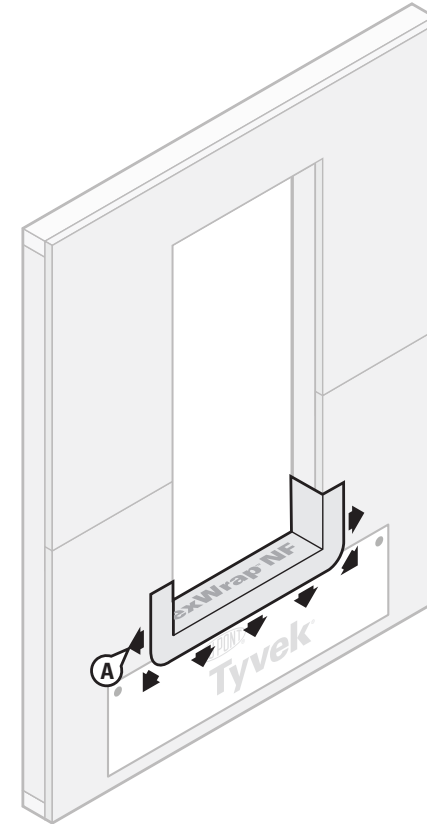
### STEP 3

Position the sill flashing as indicated so the section with the release paper still attached extends past the door threshold on the inside. Ensure that 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening. When the 1" of release paper is removed, the remaining section of DuPont™ FlexWrap™ NF can be used to form a back dam.



### STEP 4

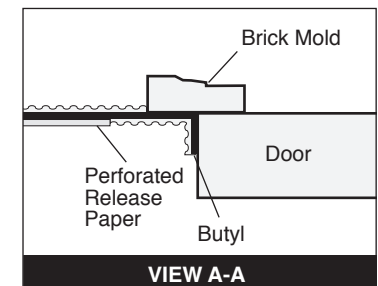
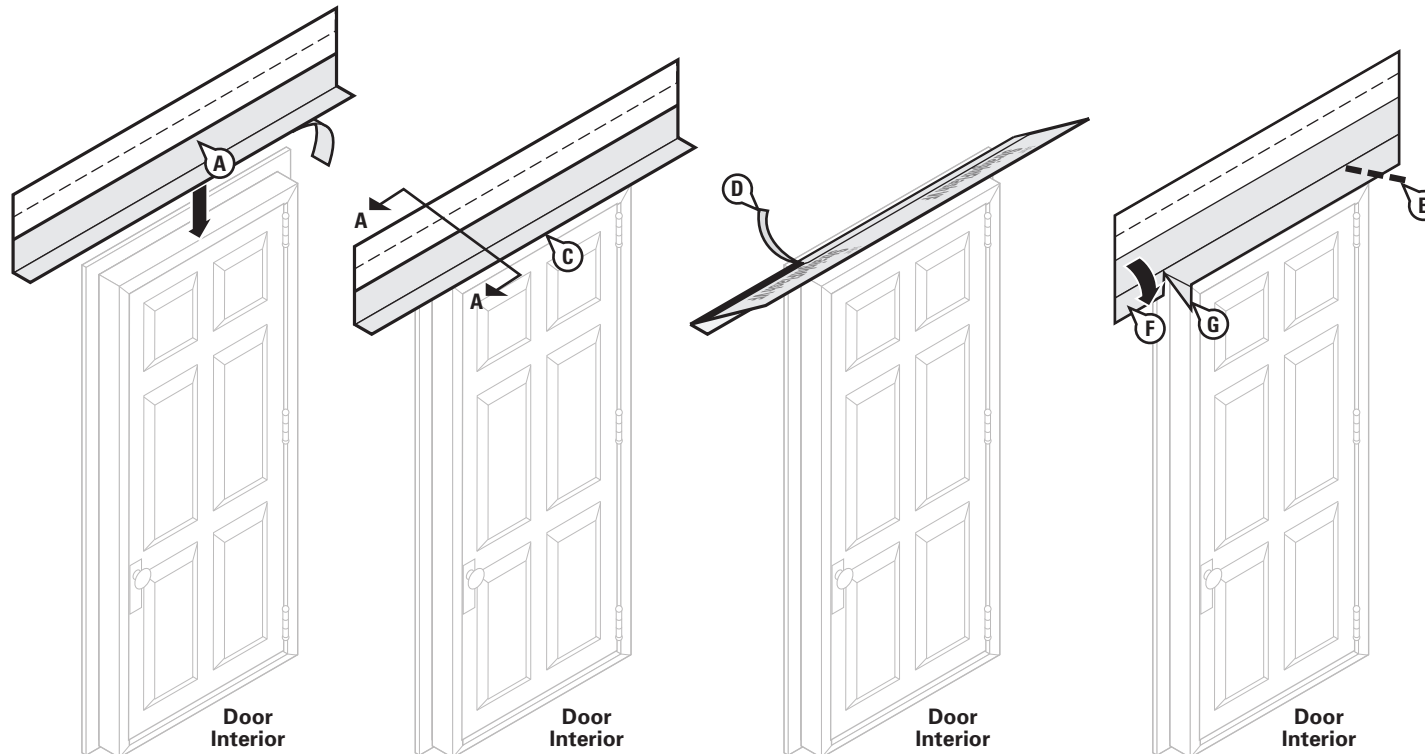
A. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 5

- A. Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 12" **LONGER** than the head length.
- B. Break the perforated release paper on one edge of the head flashing by folding it back and forth upon itself.
- C. Center the DuPont™ StraightFlash™ VF along the length of the door head and position so that it contacts the door frame and interior side of the brick mold. Remove the outer release paper and adhere the flashing to the door frame. Use the inner release paper to form a tight seal in the corner.
- D. Remove the inner release paper and adhere the flashing to the back of the brick mold.
- E. At the corner of the door frame, cut the DuPont™ StraightFlash™ VF at a 45° angle.
- F. Fold the newly created flashing flap down flat against the brick mold.
- G. Fold remaining head flashing flaps down onto the jamb frame.

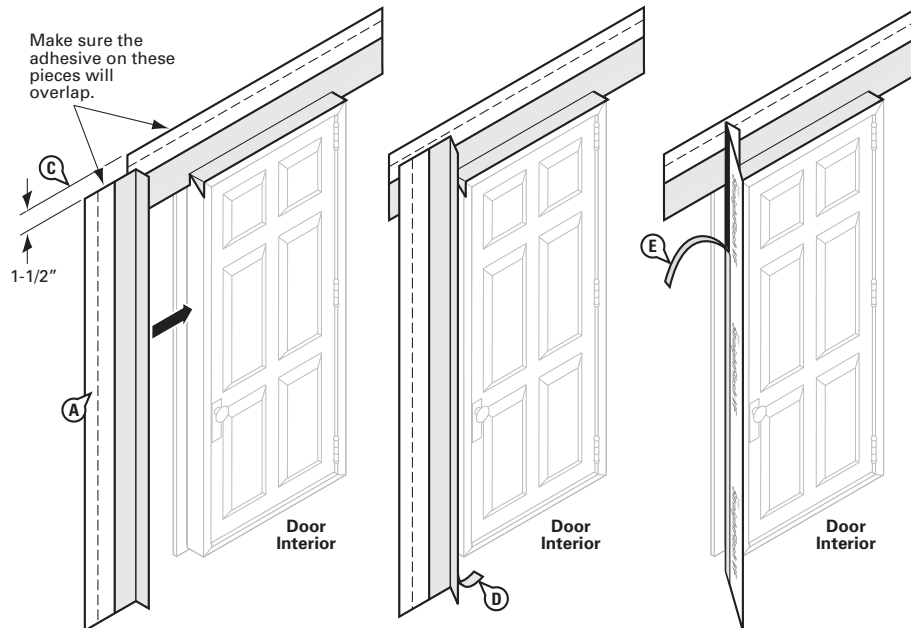




## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

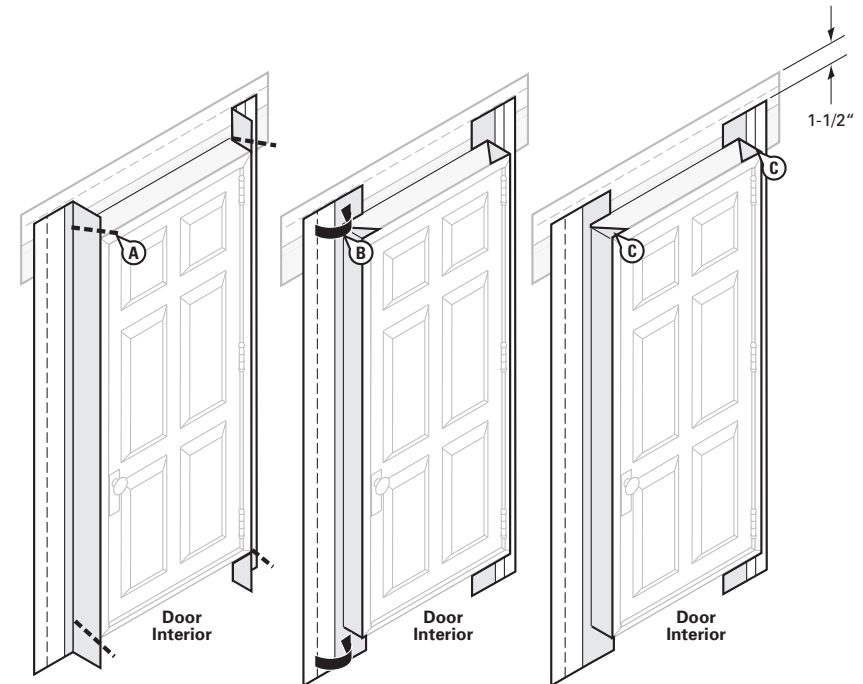
### STEP 6

- Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 6" **LONGER** than the jamb.
- Break the perforated release paper on one side of the jamb flashing by folding it back and forth upon itself.
- Position so that DuPont™ StraightFlash™ VF contacts the door frame and interior side of the brick mold. Ensure that the jamb flashing is positioned 1-1/2" below the top edge of the head flashing. **Jamb flashing adhesive must come in contact with head flashing adhesive by one inch.**
- Remove the outer release paper and adhere the flashing to the door frame. Use the inner release paper to form a tight seal in the corner.
- Remove the inner release paper and adhere the flashing to the back of the brick mold.
- Repeat on opposite jamb.



### STEP 7

- Beginning at the junction of the jamb and head, and away from the corner, cut the DuPont™ Straightflash™ VF at a 45° angle. Repeat the procedure at the junction of the sill and jamb.
- Fold cut jamb flashing parallel to the door frame so that the jamb flashing lies flat.
- Fold remaining jamb flashing flaps down at all corners and adhere to the door frame.

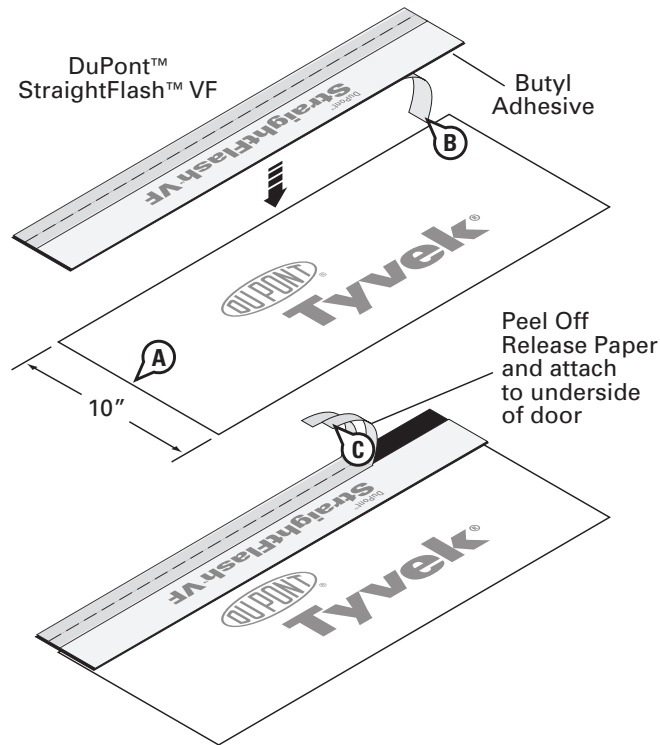


## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

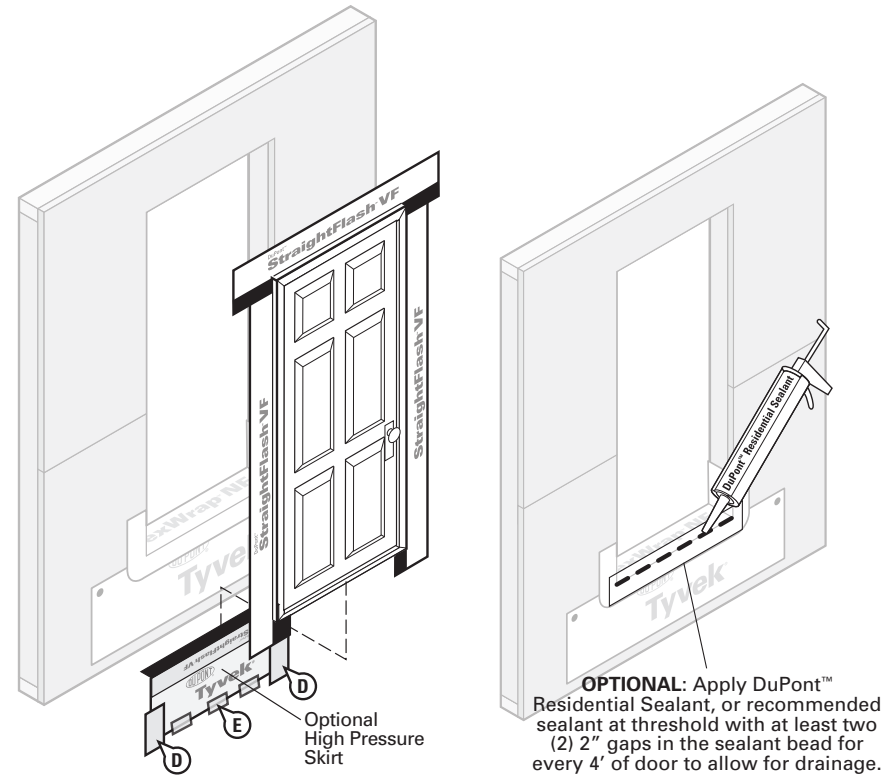
### STEP 8 (OPTIONAL - HIGH PRESSURE SKIRT)

For extreme weather conditions, performance requirements exceeding ASTM E1677, or window/door design ratings of DP45 or greater, see *General Instructions*.

- Create the high pressure skirt by cutting a piece of DuPont™ Tyvek® WRB 1" wider than the width of the door opening and approximately 10" in height.
- Cut a piece of DuPont™ StraightFlash™ VF to the same width of skirt. Remove release paper from one side of DuPont™ StraightFlash™ VF and adhere to DuPont™ Tyvek® WRB. The skirt may be made with DuPont™ StraightFlash™ VF, DuPont™ StraightFlash™ or DuPont™ Flashing Tape.
- Remove the release paper from the other side of DuPont™ StraightFlash™ VF and adhere the butyl adhesive at the sill skirt to the underside of the door threshold behind the jamb flashing.



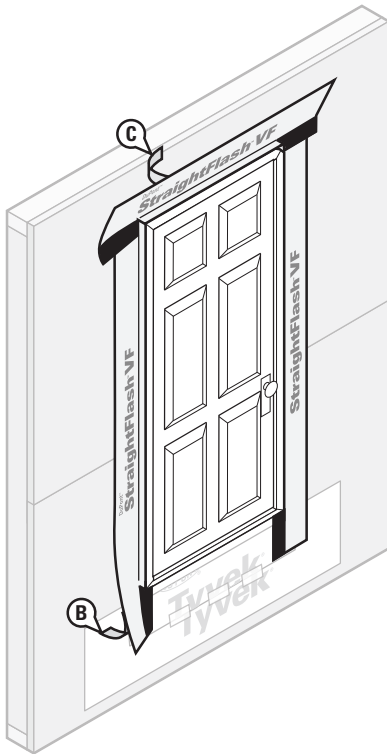
- After installation of door, secure edges of the optional skirt with two 4" pieces of DuPont™ StraightFlash™ or DuPont™ Flashing Tape.
- Tape the bottom of the optional skirt to allow for drainage and to minimize wind damage during construction.



## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

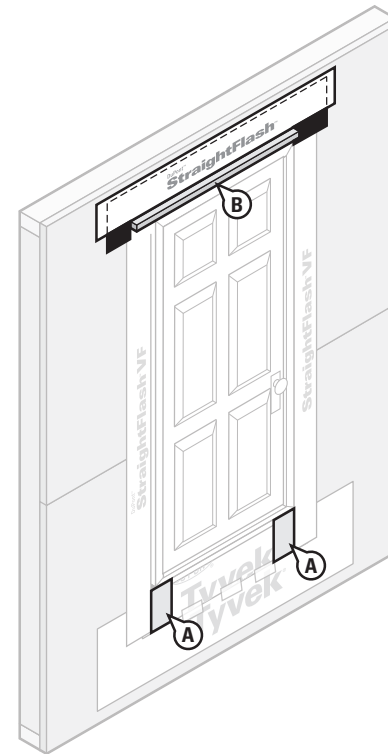
### STEP 9

- A. Install door according to manufacturer's installation instructions.
- B. Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.
- C. Remove the release paper at the head and adhere the DuPont™ StraightFlash™ VF to the exterior sheathing or framing members.



### STEP 10

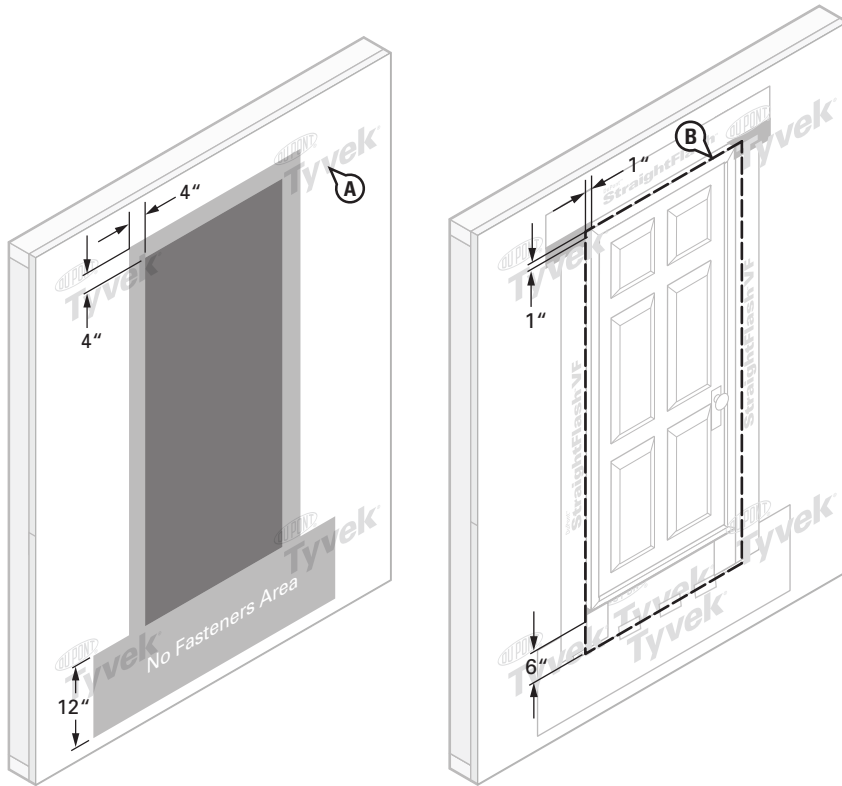
- A. **OPTIONAL:** Cover exposed butyl with DuPont™ StraightFlash™, DuPont™ Flashing Tape or DuPont™ Tyvek® Tape.
- B. **OPTIONAL:** If installing a drip cap as part of the door installation BEFORE the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.



**Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed**

## STEP 11

- A. Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the door frame at jambs and head and within 12" of the door frame at sill or location of apron.
- B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the door frame, and 6" below the sill of the door frame.

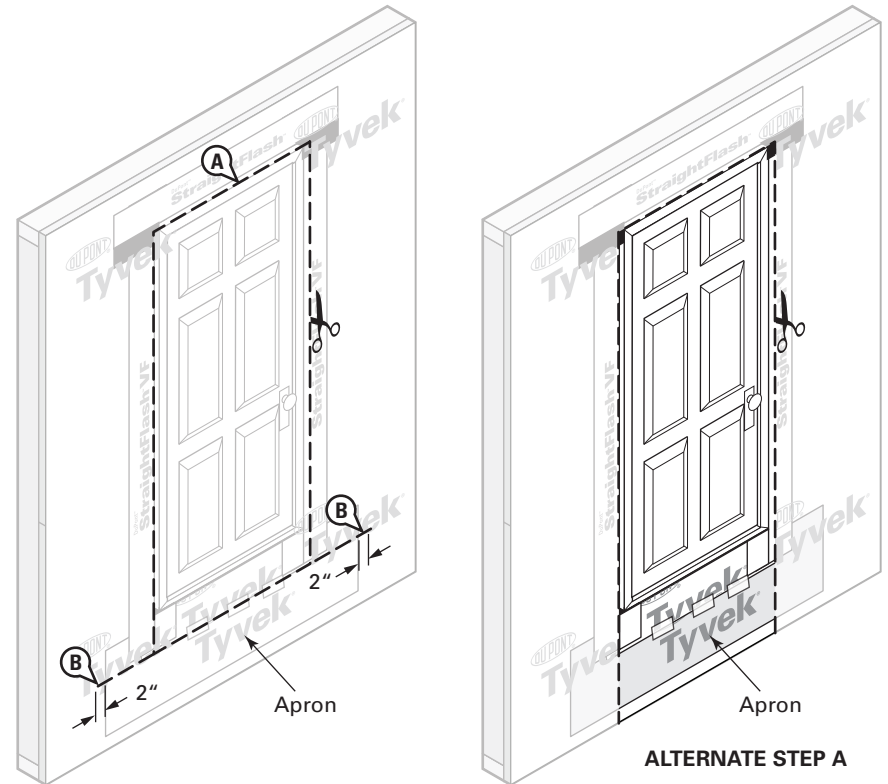


## STEP 12

- A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose door. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

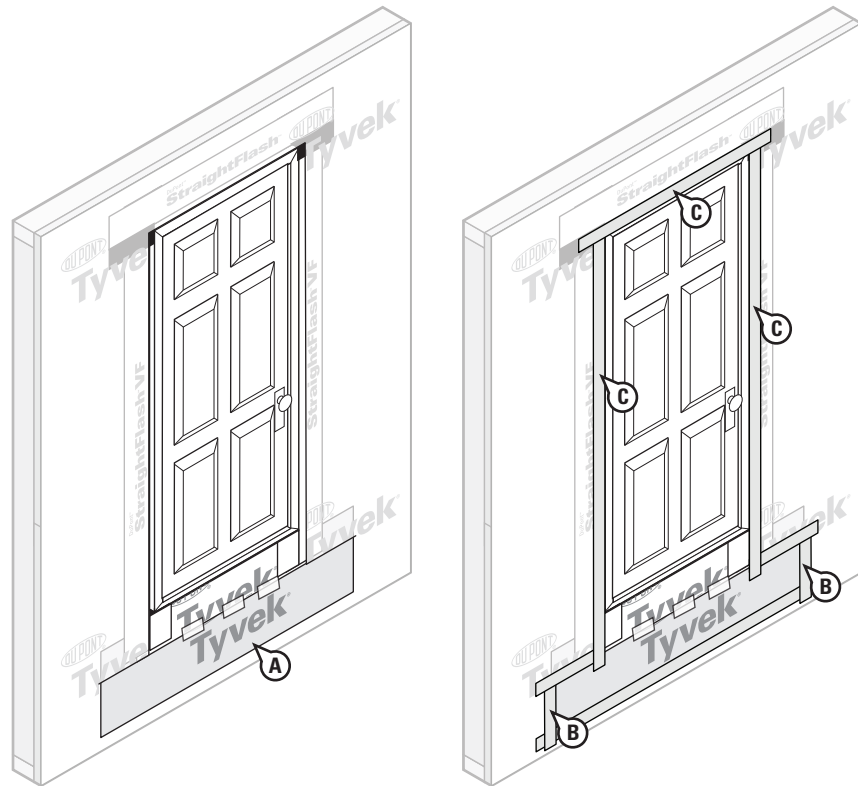
- B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

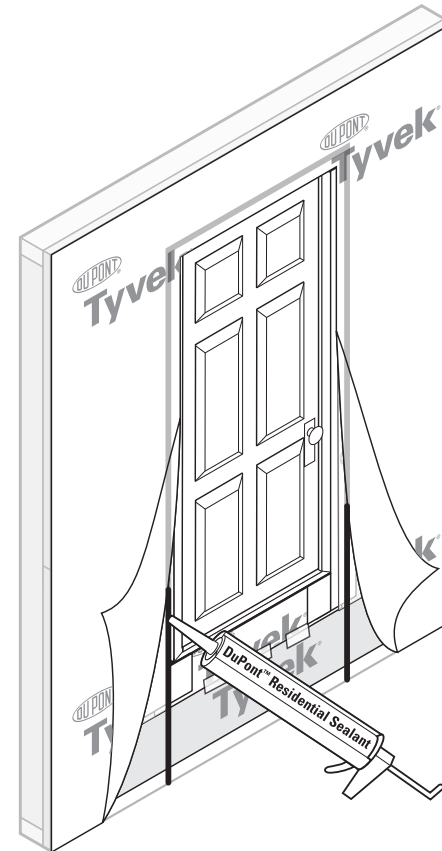
### STEP 13

- A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around door. **OPTIONAL:** If installing a drip cap AFTER the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 3.



### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 12A is followed.



## Brick Mold Door BEFORE DuPont™ Tyvek® WRB Is Installed

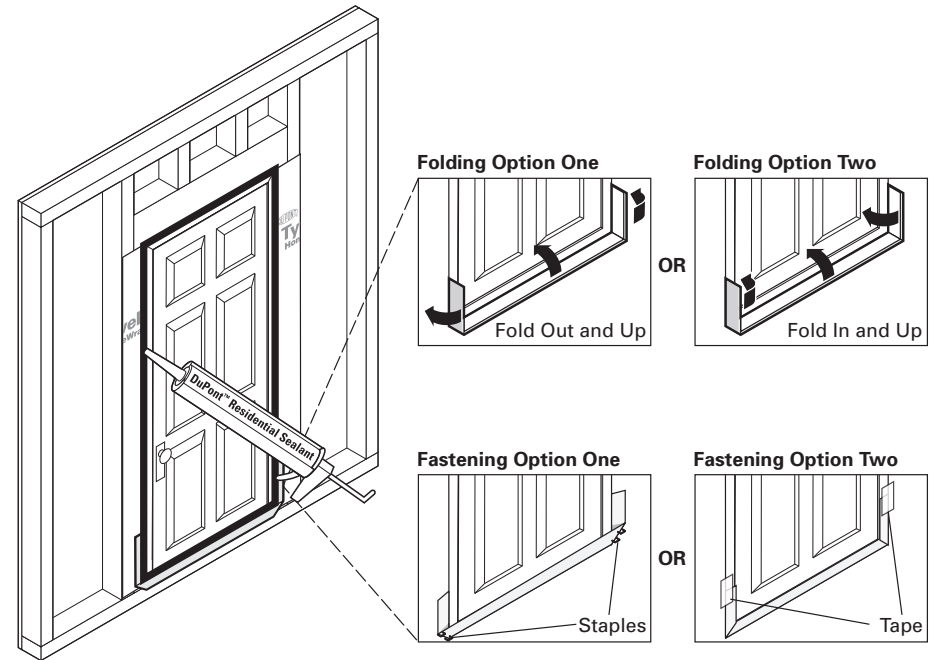
### STEP 14

#### Final Step

- A. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two to form back dam.
- B. Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam.

**DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

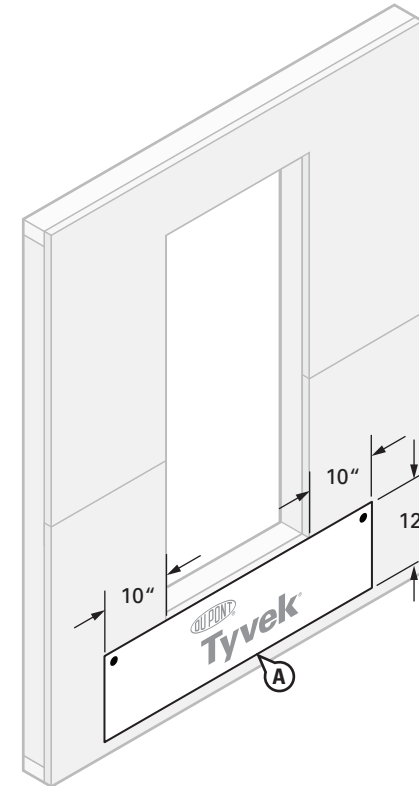
This installation guide is intended for doors installed above grade and with wood floor construction.

This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ StraightFlash™ VF, DuPont™ FlexWrap™ NF, and DuPont™ Flashing Tape

#### STEP 1

- A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the door. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.

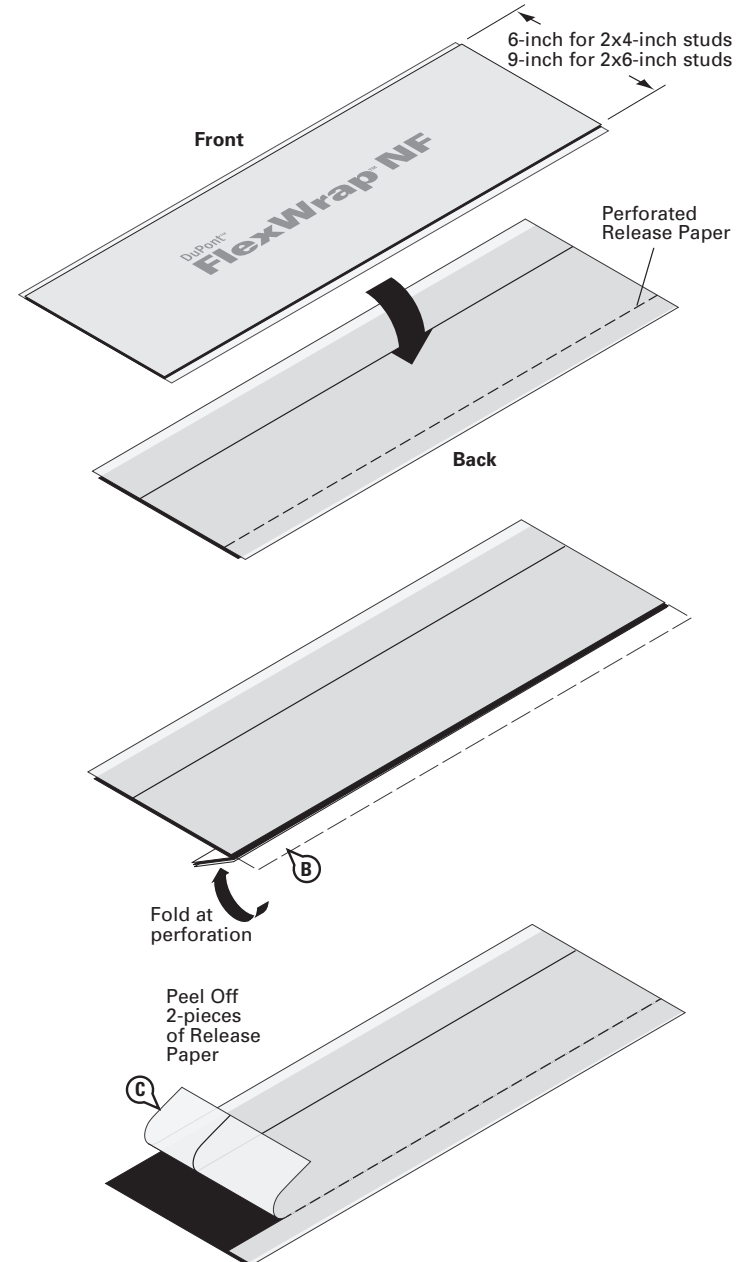
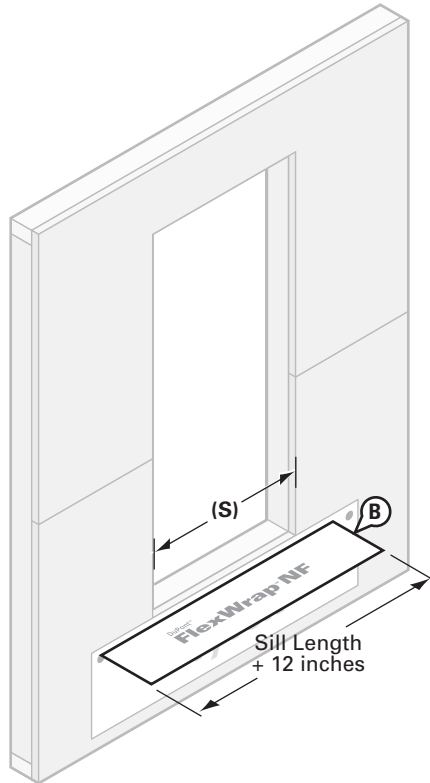


## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 2

Preparation of sill flashing:

- A. Cut piece of 9" DuPont™ FlexWrap™ NF at least 12" **LONGER** than the width of the sill (S).
- B. 9" DuPont™ FlexWrap™ NF has perforated release paper to help with the formation of a back dam. To ensure that the perforation tears cleanly, fold the perforation 180° and crease the flashing.
- C. Remove the two widest pieces of release paper leaving the narrowest release paper on the flashing. When the finished floor is applied, the release paper can be removed and the back dam can be completed.

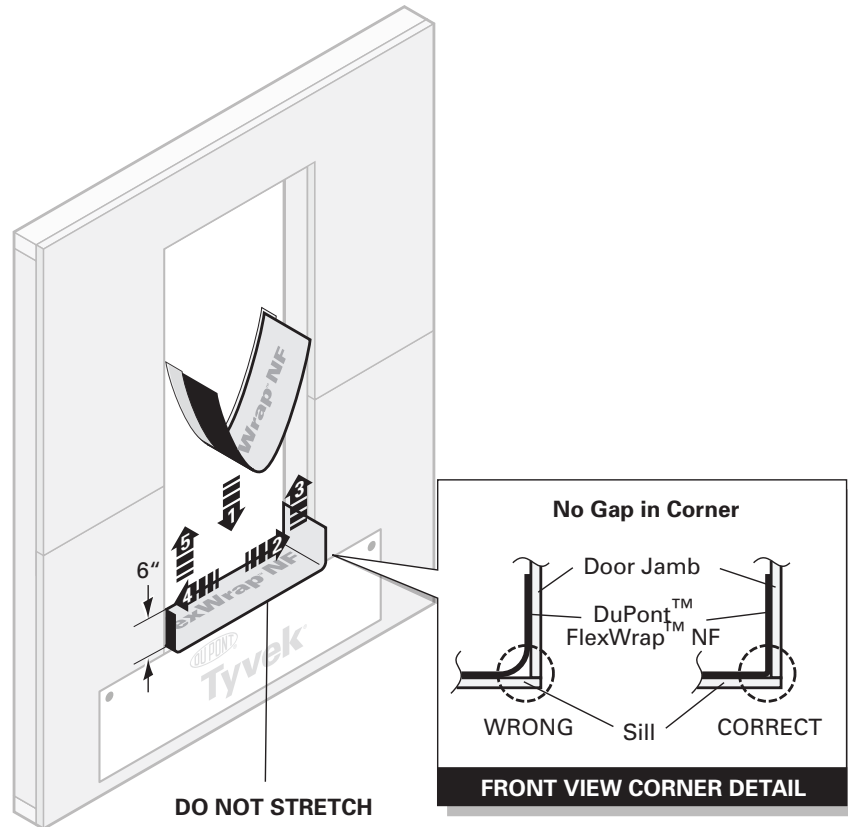




## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

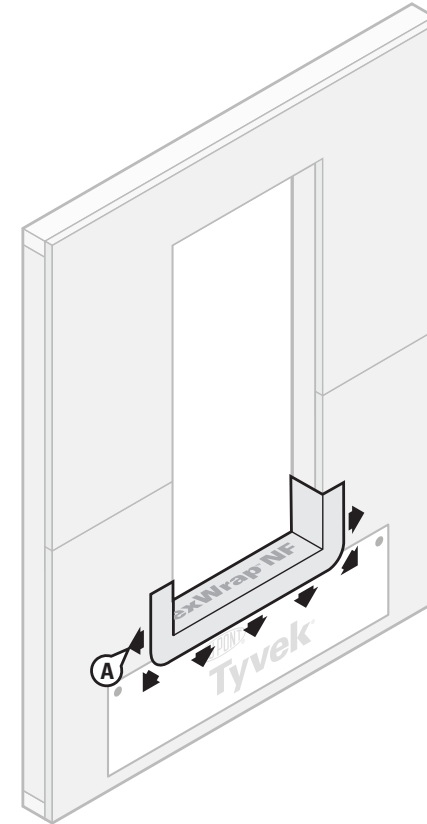
### STEP 3

Position the sill flashing as indicated so the section with the release paper still attached extends past the door threshold on the inside. Ensure that 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening. When the narrow release paper is removed, the remaining section of DuPont™ FlexWrap™ NF can be used to form a back dam.



### STEP 4

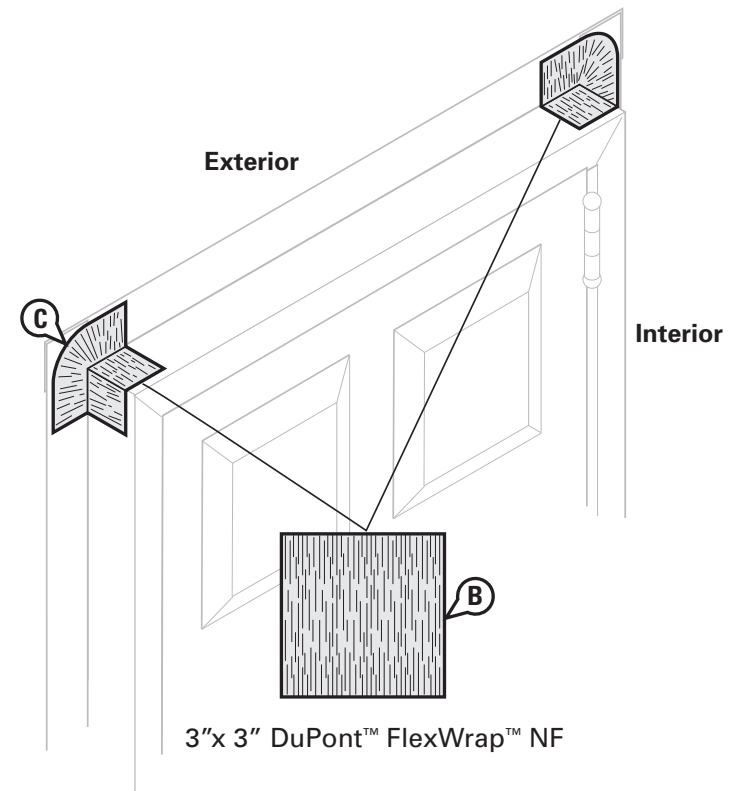
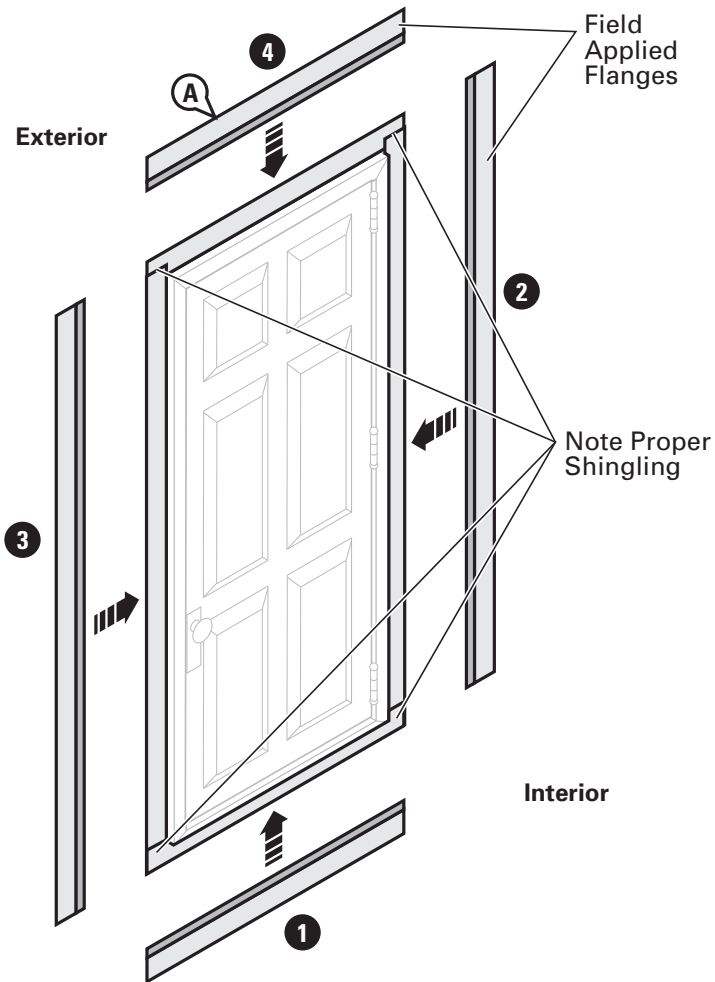
A. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 5

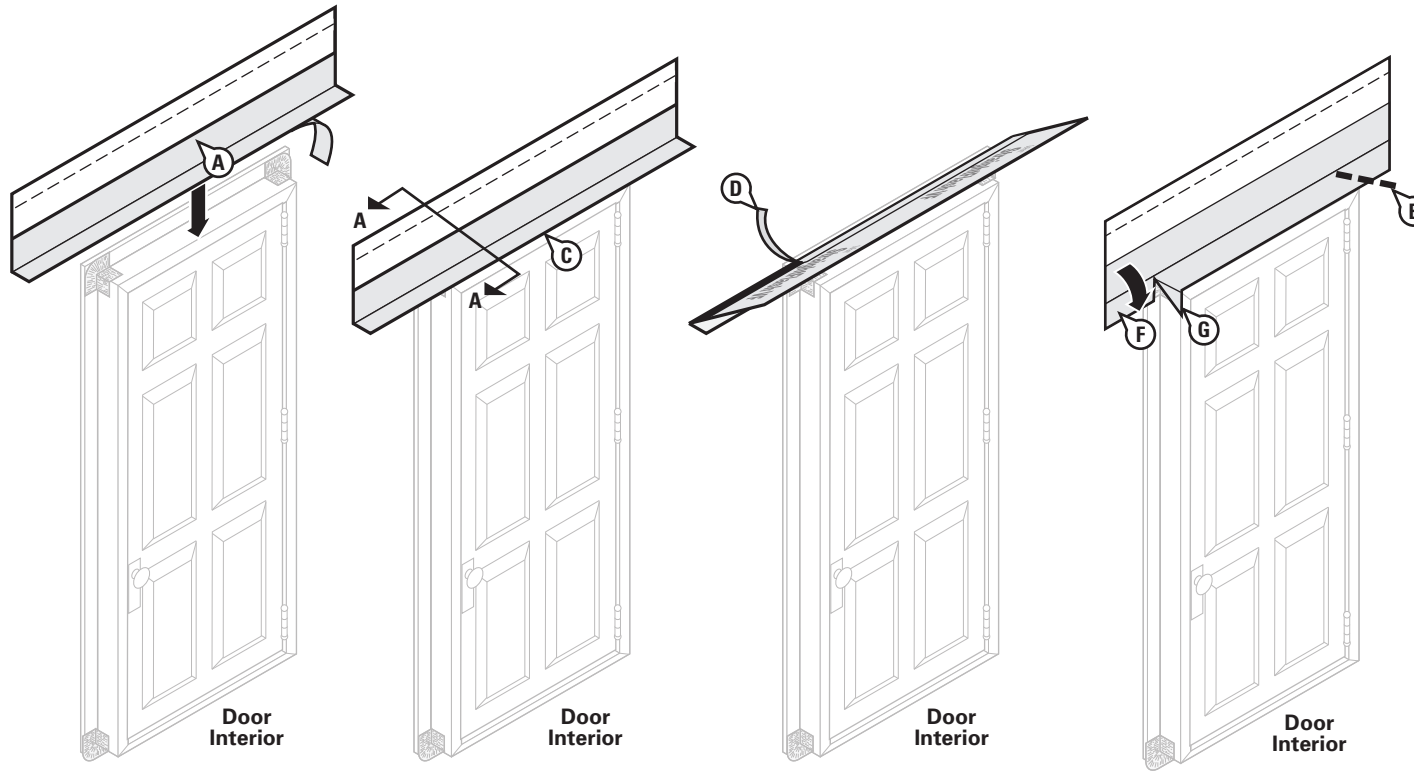
- A. Apply field applied flanges in the correct shingling fashion per manufacturer's installation instructions. **DO NOT REVERSE SHINGLE.**
- B. Cut four 3" x 3" pieces of DuPont™ FlexWrap™ NF.
- C. Apply DuPont™ FlexWrap™ NF patches to back of flange corners before applying DuPont™ StraightFlash™ VF.



## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 6

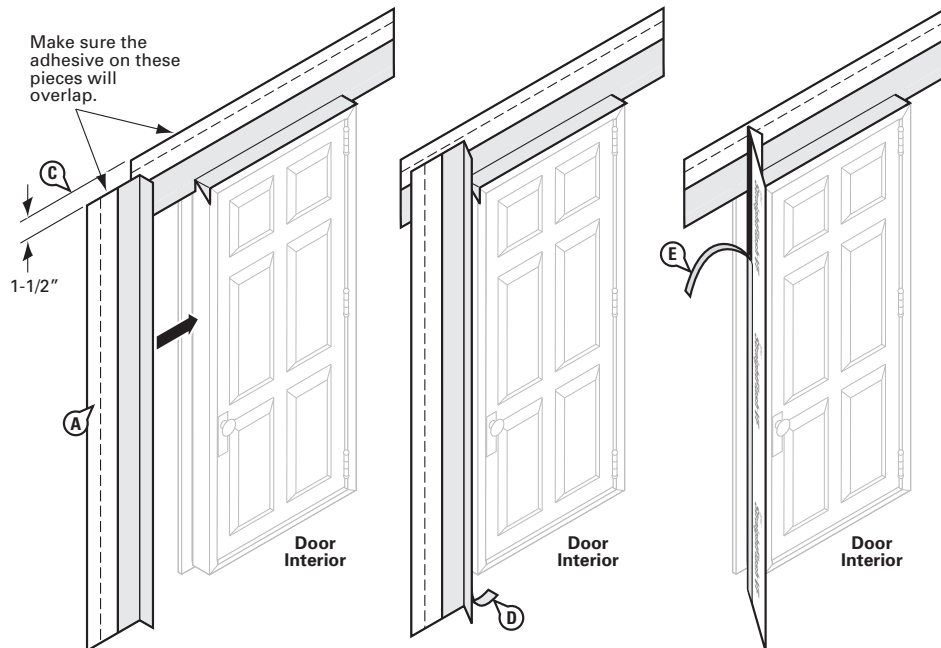
- A. Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 12" **LONGER** than the head length.
- B. Break the scored release paper on one edge of the head flashing by folding it back and forth upon itself.
- C. Center the DuPont™ StraightFlash™ VF along the length of the door head and position so that it contacts the door frame and interior side of the flange. Remove the outer release paper and adhere the flashing to the door frame. Use the inner release paper to form a tight seal in the corner.
- D. Remove the inner release paper and adhere the flashing to the back of the flange.
- E. Beginning at the junction of the jamb and the head, and away from the corner, cut the DuPont™ StraightFlash™ VF at a 45° angle.
- F. Fold the newly created flashing flap down flat against the flange.
- G. Fold remaining head flashing flaps down onto the jamb frame.



## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

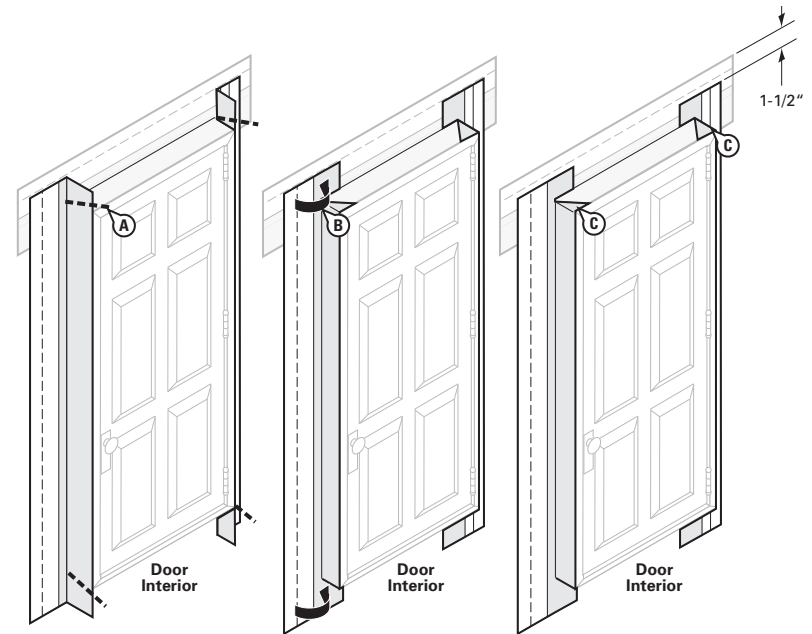
### STEP 7

- Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 6" **LONGER** than the jamb.
- Break the perforated release paper on one side of the jamb flashing by folding it back and forth upon itself.
- Position so that DuPont™ StraightFlash™ VF contacts the door frame and interior side of the flange. Ensure that the jamb flashing is positioned 1-1/2" below the top edge of the head flashing. **Jamb flashing adhesive must come in contact with head flashing adhesive by one inch.**
- Remove the outer release paper and adhere the flashing to the door frame. Use the inner release paper to form a tight seal in the corner.
- Remove the inner release paper and adhere the flashing to the back of the flange.
- Repeat on opposite jamb.



### STEP 8

- Beginning at the junction of the jamb and head, and away from the corner, cut the DuPont™ Straightflash™ VF at a 45° angle. Repeat the procedure at the junction of the sill and jamb.
- Fold cut jamb flashing parallel to the door frame so that the jamb flashing lies flat.
- Fold remaining jamb flashing flaps down at all corners and adhere to the door frame.

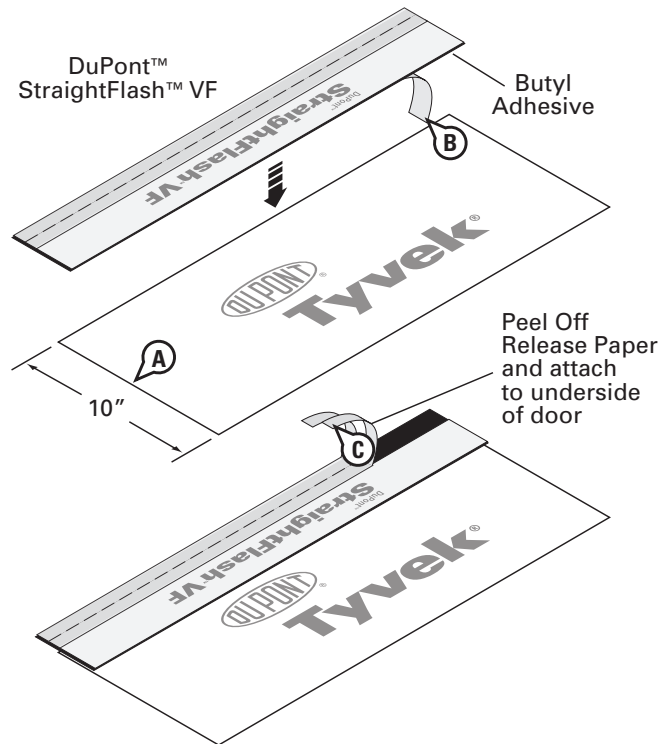


## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

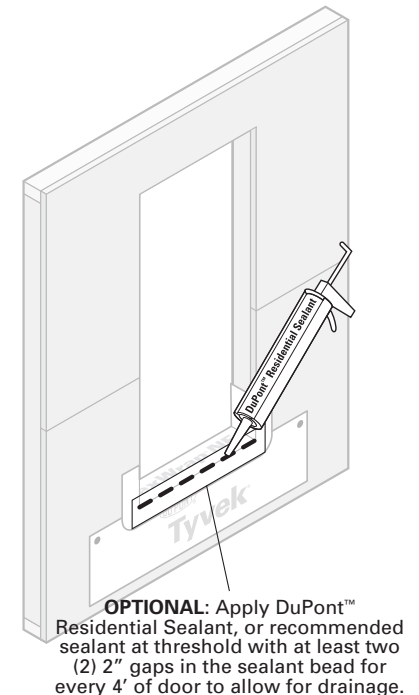
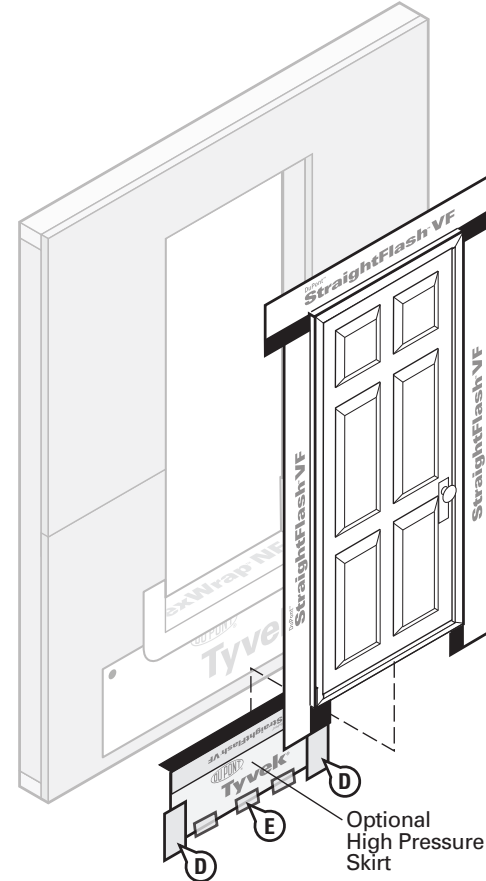
### STEP 9 (OPTIONAL) - HIGH PRESSURE SKIRT

For extreme weather conditions, performance requirements exceeding ASTM E1677, or window/door design ratings of DP45 or greater, see *General Instructions*.

- A. Create the high pressure skirt by cutting a piece of DuPont™ Tyvek® WRB 1" wider than the width of door opening and approximately 10" in height.
- B. Cut a piece of DuPont™ StraightFlash™ VF to the same width of skirt. Remove release paper from one side of DuPont™ StraightFlash™ VF and adhere to DuPont™ Tyvek® WRB. The skirt may be made with DuPont™ StraightFlash™ VF, DuPont™ StraightFlash™ or DuPont™ Flashing Tape.



- C. Remove the release paper from the other side of DuPont™ StraightFlash™ VF and adhere the butyl adhesive at the sill skirt to the underside of the door threshold behind the jamb flashing.
- D. After installation of door, secure edges of the optional skirt with two 4" pieces of DuPont™ StraightFlash™ or DuPont™ Flashing Tape.
- E. Tape the bottom of the optional skirt to allow for drainage and to minimize wind damage during construction.



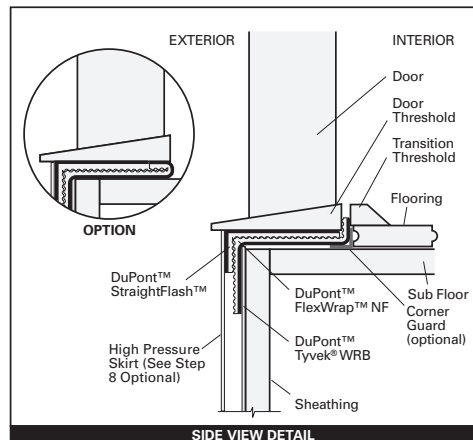
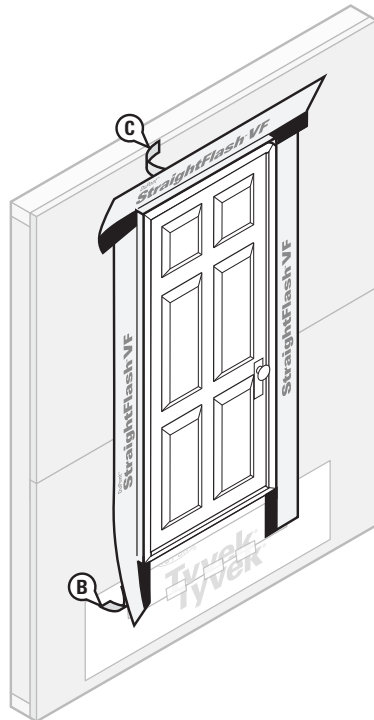
## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 10

- Install door according to manufacturer's installation instructions.
- Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.
- Remove the release paper at the head and adhere the DuPont™ StraightFlash™ VF to the exterior sheathing or framing members.

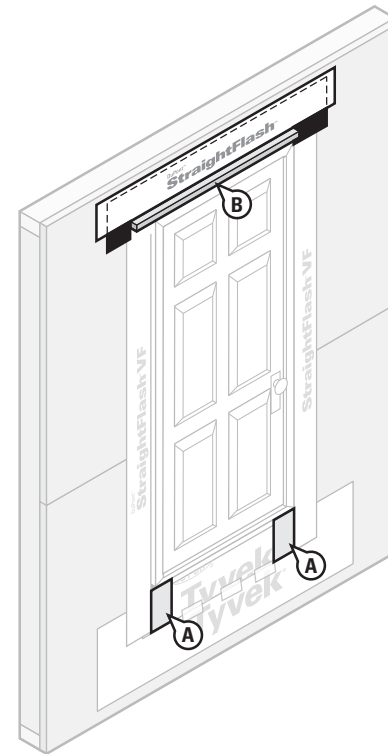
**OPTIONAL: Create back dam by folding back narrow section of DuPont™**

**FlexWrap™ NF:** Some flooring cannot accommodate a back dam. In that case fold the 1" back dam on top of the 9" DuPont™ FlexWrap™ NF in the sill. Door will be installed on top of 1" fold to create a back dam.



### STEP 11

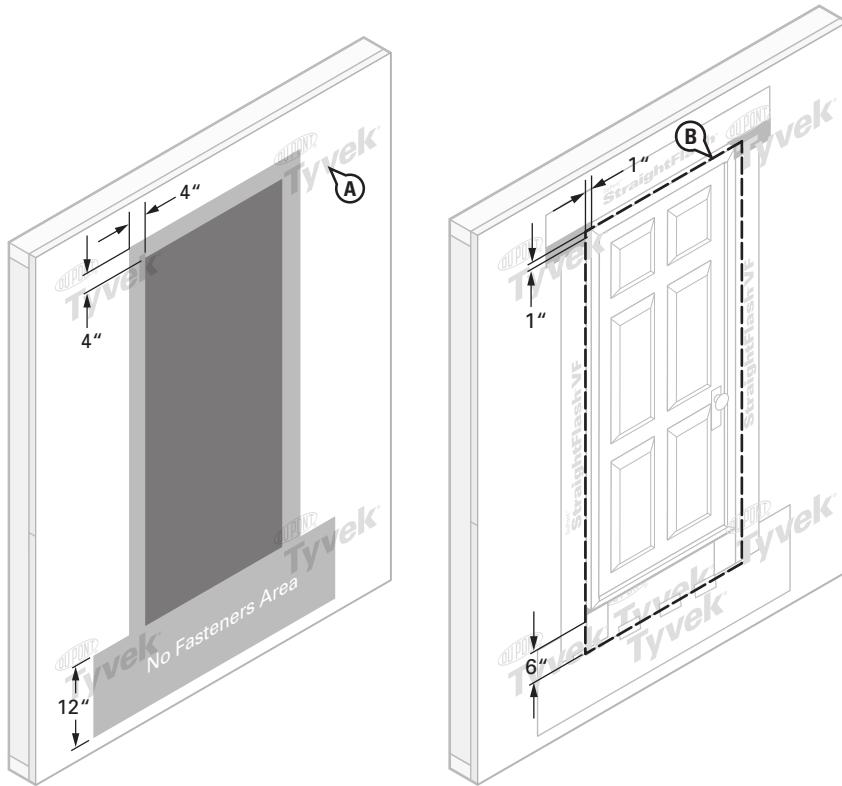
- OPTIONAL:** Cover exposed butyl with DuPont™ StraightFlash™, DuPont™ Flashing Tape or DuPont™ Tyvek® Tape.
- OPTIONAL:** If installing a drip cap as part of the door installation BEFORE the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.



**Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed**

## STEP 12

- A. Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the door frame at jambs and head and within 12" of the door frame at sill or location of apron.
- B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the door frame, and 6" below the sill of the door frame.

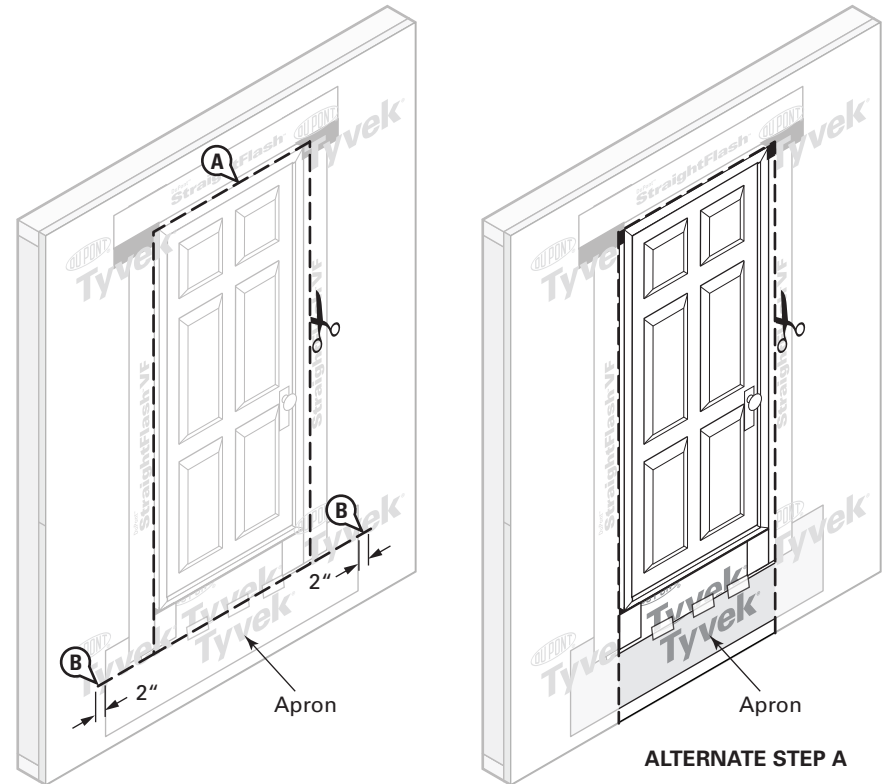


## STEP 13

- A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose door. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

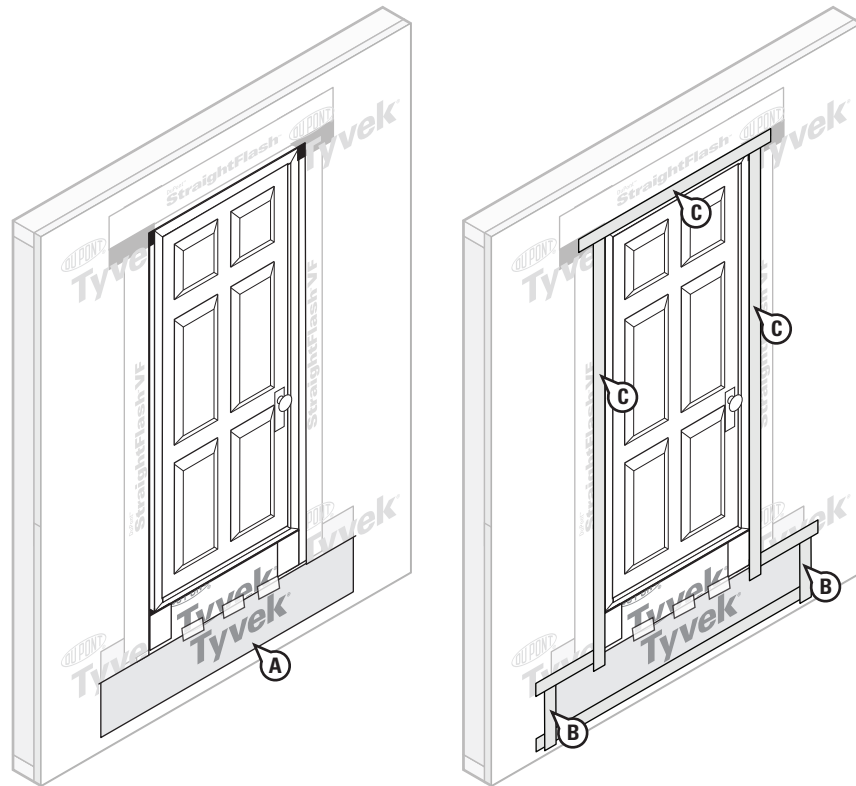
- B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

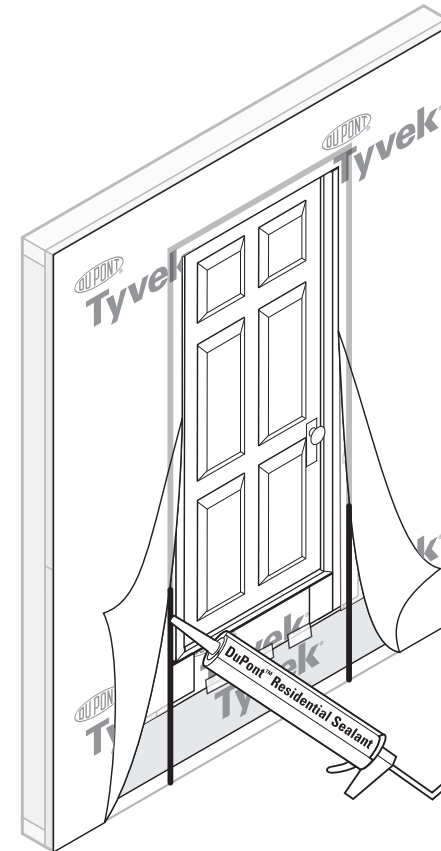
### STEP 14

- A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around door. **OPTIONAL:** If installing a drip cap **AFTER** the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 3.



### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 13A is followed.





## Field Applied Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

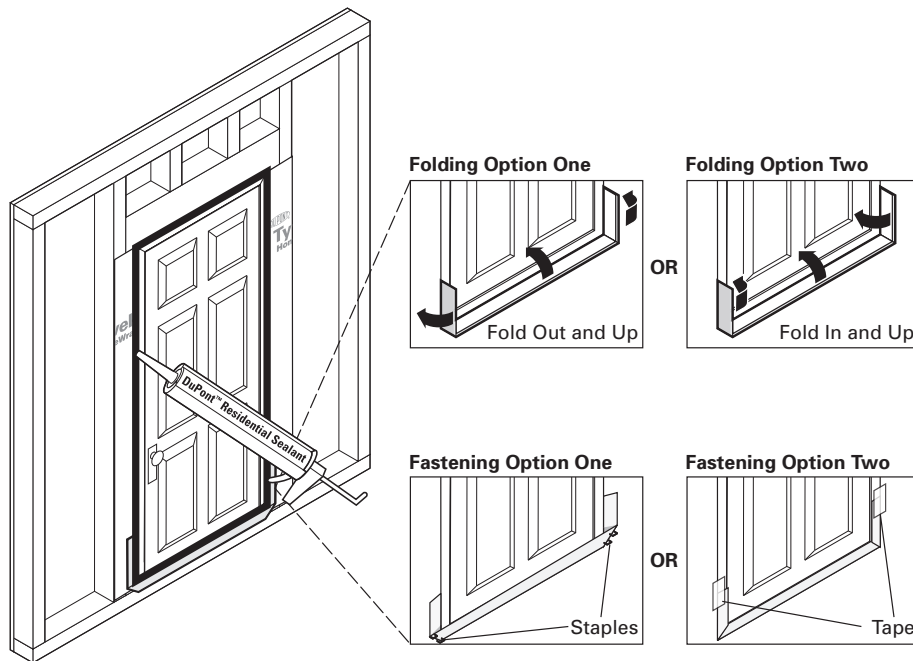
### STEP 15

#### Final Step

- A. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two to form back dam.
- B. Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam.

**DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

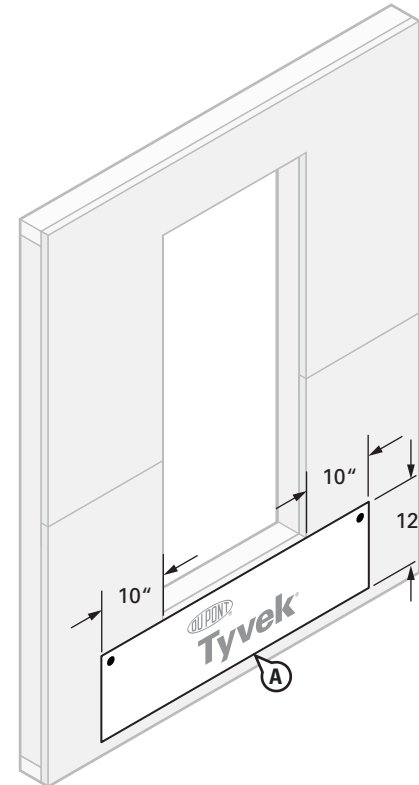
This installation guide is intended for doors installed above grade and with wood floor construction.

This method applies to the following products:

- DuPont™ StraightFlash™, DuPont™ StraightFlash™ VF, DuPont™ FlexWrap™ NF, and DuPont™ Flashing Tape

#### STEP 1

A. Cut an apron made of DuPont™ Tyvek® WRB for attachment under sill of rough opening. Apron should extend at least 10" beyond sides of rough opening jambs (or to first stud in open stud construction) and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. The top of the apron should be securely attached to the wall and the bottom of the apron should be left unsecured so it can overlap the DuPont™ Tyvek® WRB which will be installed after the door. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ Self-Adhered Flashing products will be installed.

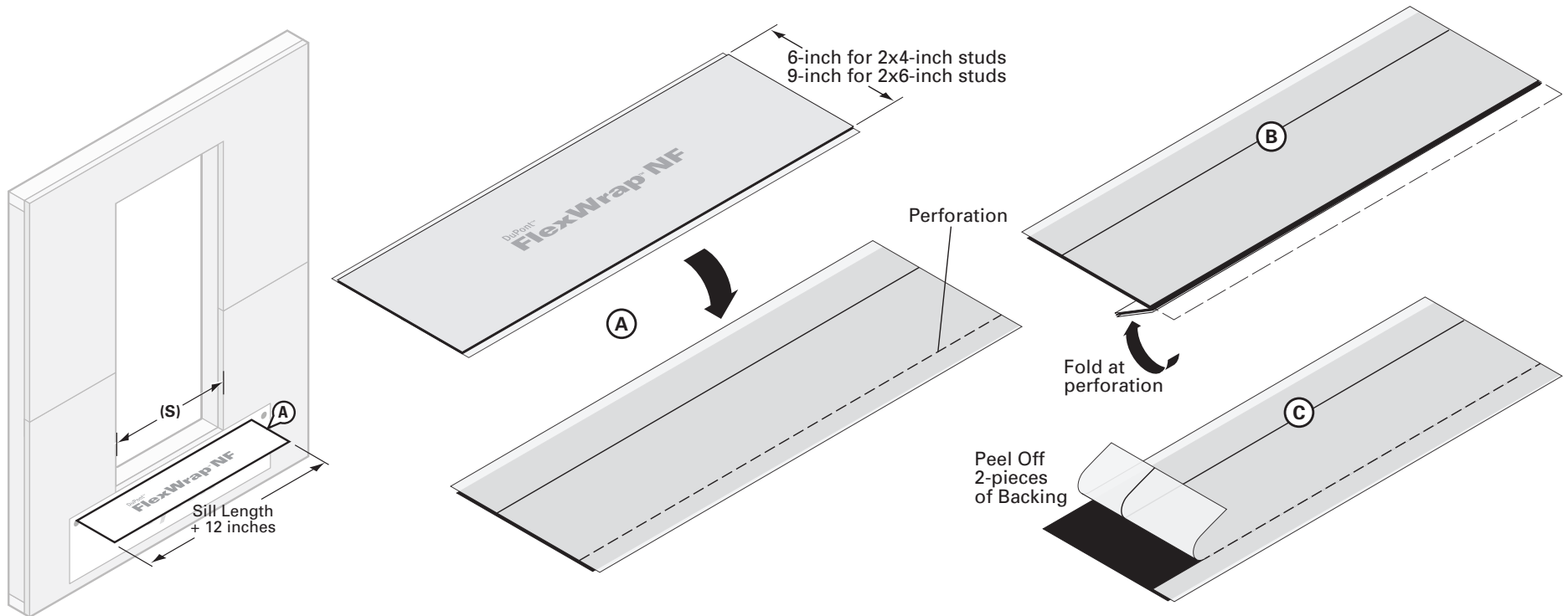


## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 2

Preparation of sill flashing:

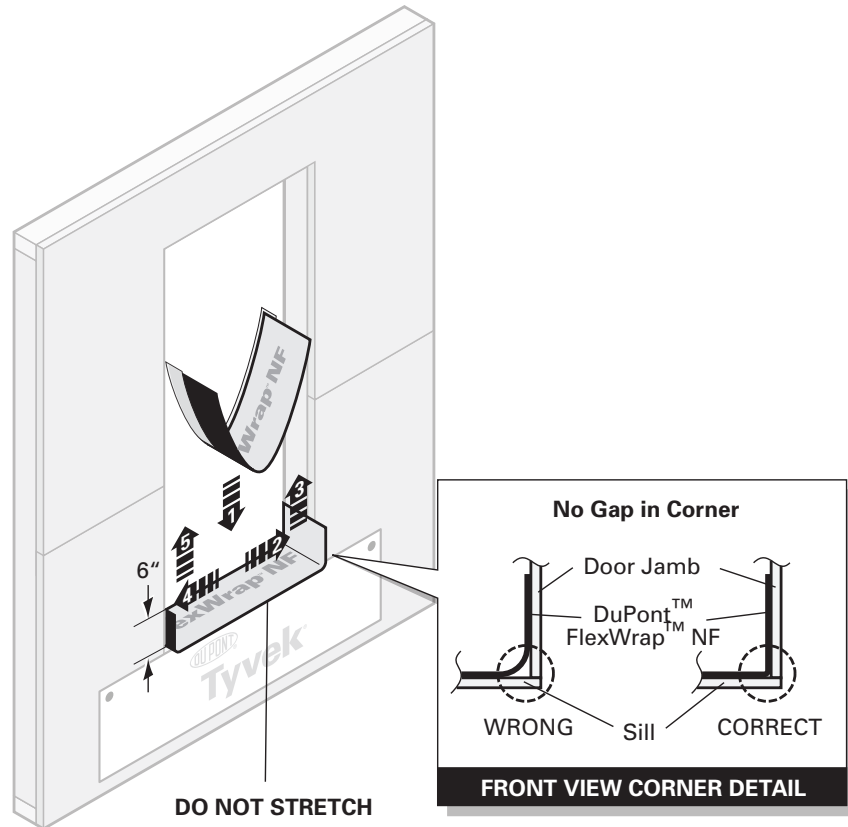
- A. Cut 9" DuPont™ FlexWrap™ NF at least 12" **LONGER** than the width of the sill (S).
- B. 9" DuPont™ FlexWrap™ NF has perforated release paper to help with the formation of a back dam. To ensure that the perforation tears cleanly, fold the perforation 180° and crease the flashing.
- C. Remove the two widest pieces of release paper leaving the narrowest release paper on the flashing. When the finished floor is applied, the release paper can be removed and the back dam can be completed.



## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

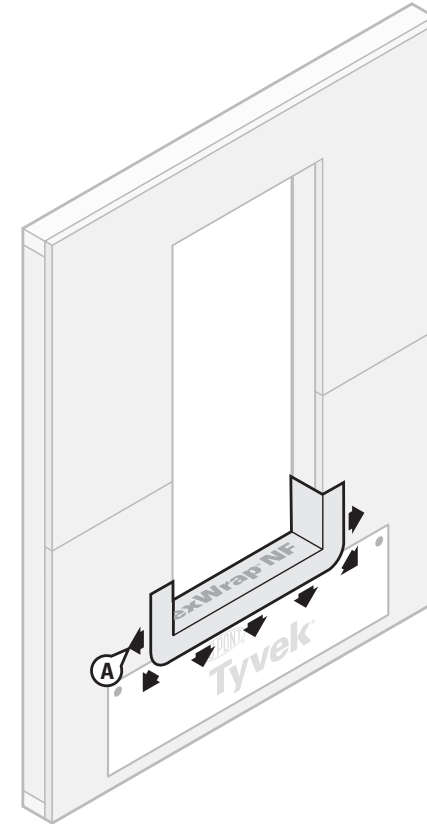
### STEP 3 (OPTIONAL BACK DAM)

Position the sill flashing as indicated so the section with the release paper still attached extends past the door threshold on the inside. Ensure that 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening. When the narrow release paper is removed, the remaining section of DuPont™ FlexWrap™ NF can be used to form a back dam.



### STEP 4

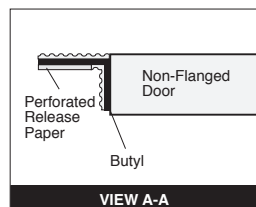
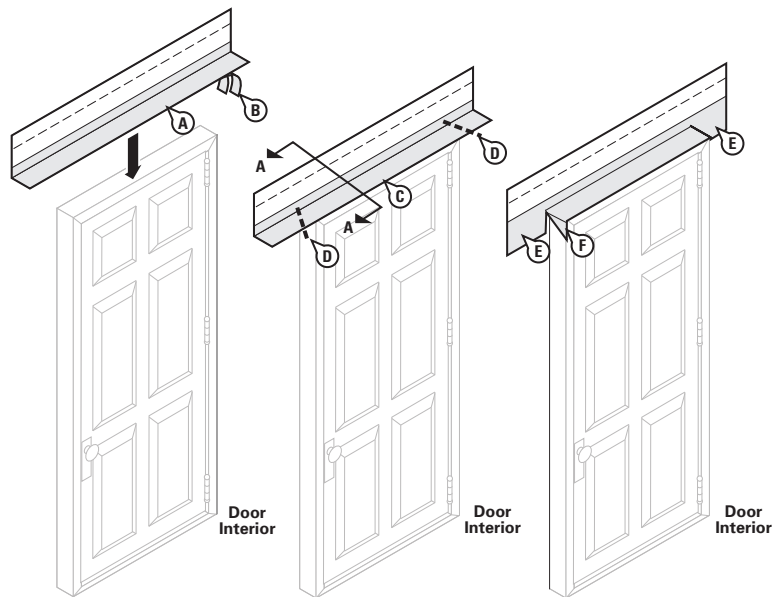
A. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.



## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

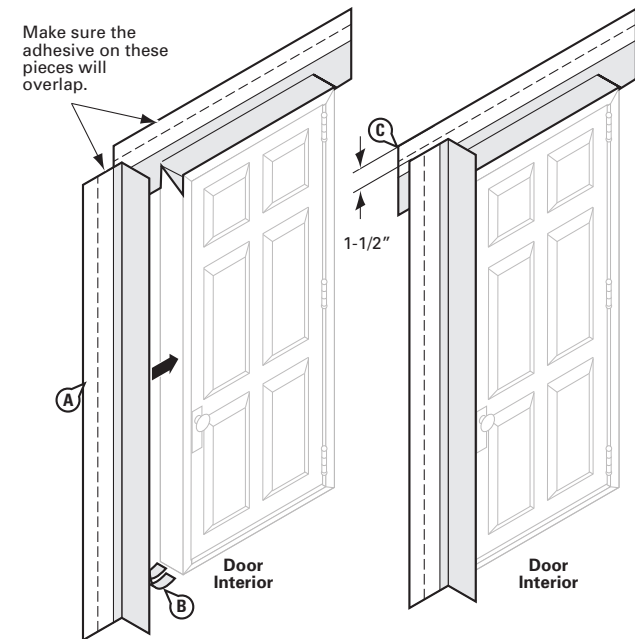
### STEP 5

- Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 12" **LONGER** than the head length.
- Remove the release paper from one side of DuPont™ StraightFlash™ VF.
- Center the DuPont™ StraightFlash™ VF along the length of the door and position so that it contacts the door frame.
- Beginning at the junction of the jamb and head and away from the corners, cut the DuPont™ Straightflash™ VF at a 45° angle.
- Fold the newly created flashing flaps down parallel to the door frame.
- Fold the remaining head flashing flaps down and adhere to the jamb frame.



### STEP 6

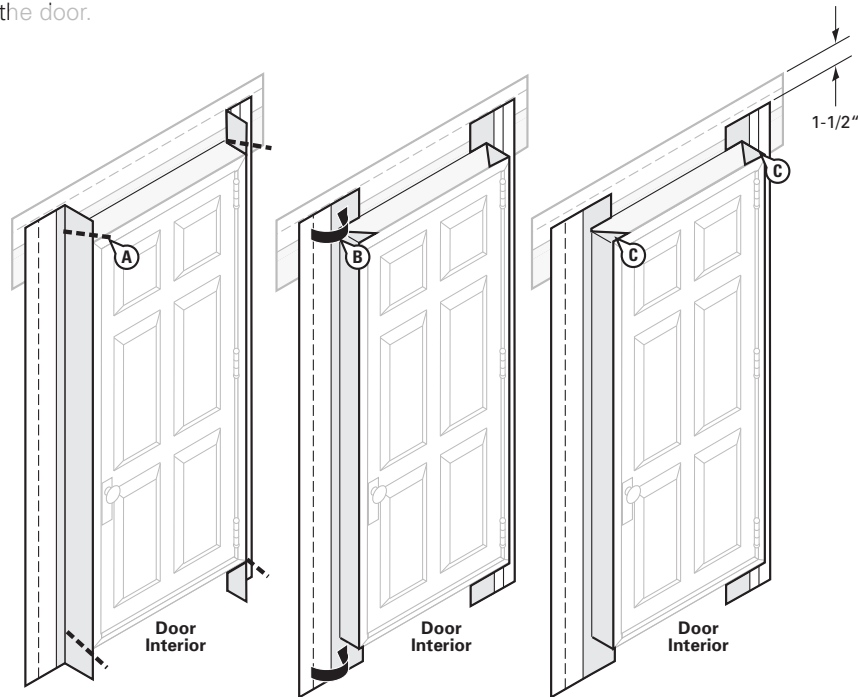
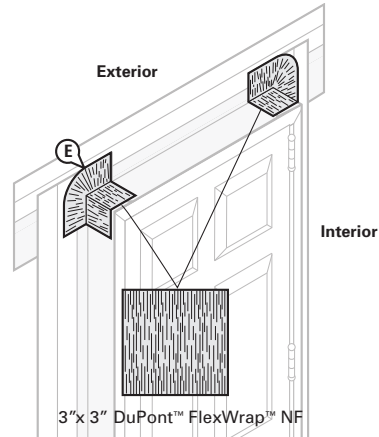
- Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least 6" **LONGER** than the jamb length.
- Remove the release paper from one side of DuPont™ StraightFlash™ VF.
- Position so that the DuPont™ StraightFlash™ VF contacts the door frame up to the exterior face of the door. Ensure that the jamb flashing is positioned 1-1/2" below top of head flashing. **Jamb flashing adhesive must come in contact with head flashing adhesive and overlap by one inch.**
- Repeat on opposite jamb.



## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 7

- A. Beginning at the junction of the jamb and the head, and away from the corner, cut the DuPont™ StraightFlash™ VF at a 45° angle. Repeat the procedure at the junction of the sill and jambs.
- B. Fold cut jamb flashing parallel to the door frame so that the jamb flashing lies flat.
- C. Fold remaining jamb flashing flaps down at all corners and adhere to the door frame.
- D. Repeat on opposite jamb.
- E. Cut two 3" x 3" DuPont™ FlexWrap™ NF squares and add patches to corner of the door.

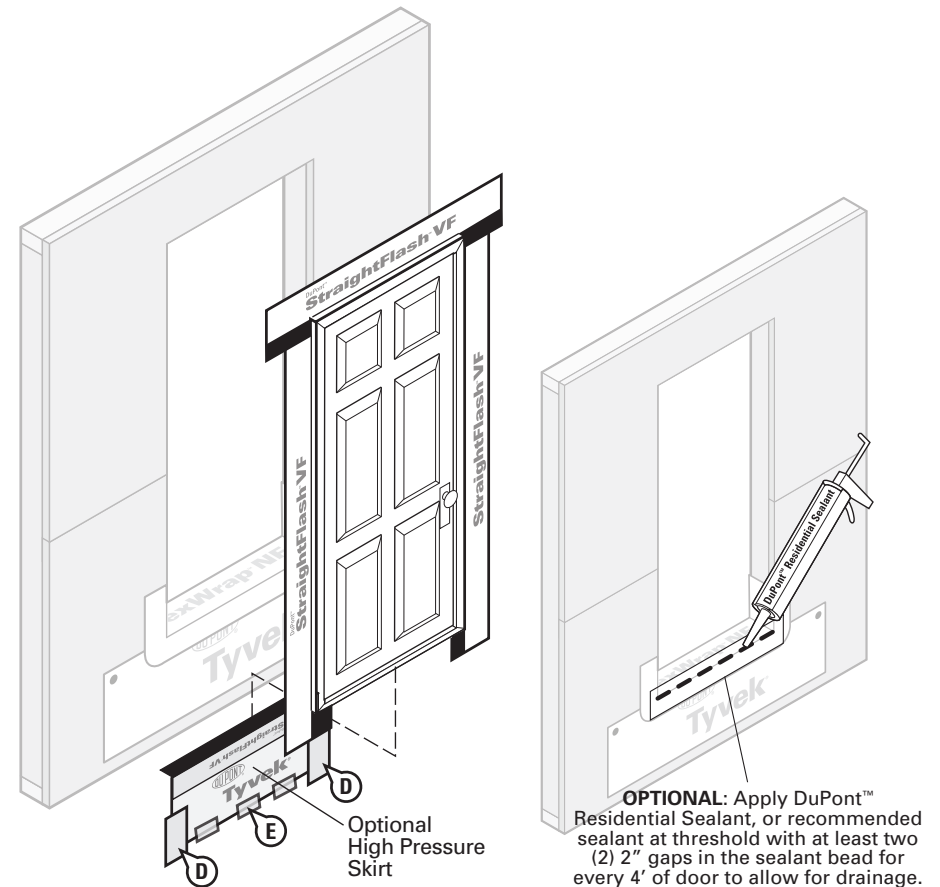
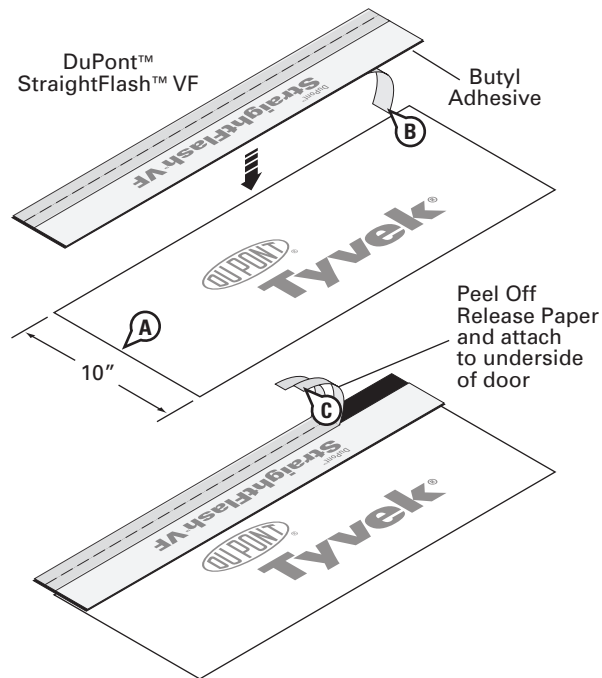


## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 8 (OPTIONAL - HIGH PRESSURE SKIRT)

For extreme weather conditions, performance requirements exceeding ASTM E1677, or window/door design ratings of DP45 or greater, see *General Instructions*.

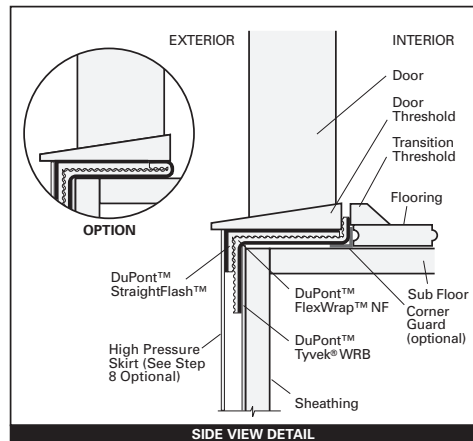
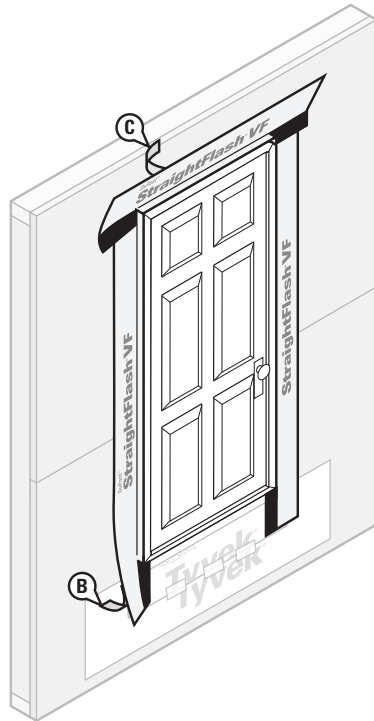
- Create the high pressure skirt by cutting a piece of DuPont™ Tyvek® WRB 1" wider than the width of the door opening and approximately 10" in height.
- Cut a piece of DuPont™ StraightFlash™ VF to the same width of skirt. Remove release paper from one side of DuPont™ StraightFlash™ VF and adhere to the DuPont™ Tyvek® WRB. The skirt may be made with DuPont™ StraightFlash™ VF, DuPont™ StraightFlash™ or DuPont™ Flashing Tape.
- Remove the release paper from the other side of DuPont™ StraightFlash™ VF and adhere the butyl adhesive at the sill skirt to the underside of the door threshold behind the jamb flashing.
- After installation of door, secure edges of the optional skirt with two 4" pieces of DuPont™ StraightFlash™ or DuPont™ Flashing Tape.
- Tape the bottom of the optional skirt to allow for drainage and to minimize wind damage during construction.



## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

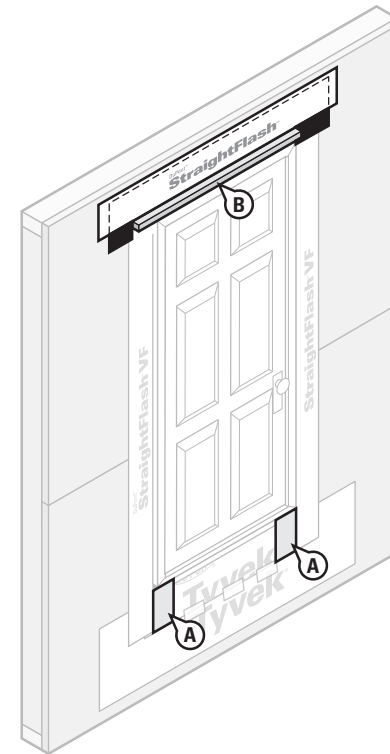
### STEP 9

- A. Install door according to manufacturer's installation instructions.
- B. Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere the butyl adhesive to the DuPont™ Tyvek® WRB.
- C. Remove the release paper at the head and adhere the DuPont™ StraightFlash™ VF to the exterior sheathing or framing members. **OPTIONAL: Create back dam by folding back narrow section of DuPont™ FlexWrap™ NF:** Some flooring cannot accommodate a back dam. In that case fold the 1" back dam on top of the 9" DuPont™ FlexWrap™ NF in the sill. Door will be installed on top of 1" fold to create a back dam.



### STEP 10

- A. **OPTIONAL:** Cover exposed butyl with DuPont™ StraightFlash™, DuPont™ Flashing Tape or DuPont™ Tyvek® Tape.
- B. **OPTIONAL:** If installing a drip cap as part of the door installation BEFORE the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.

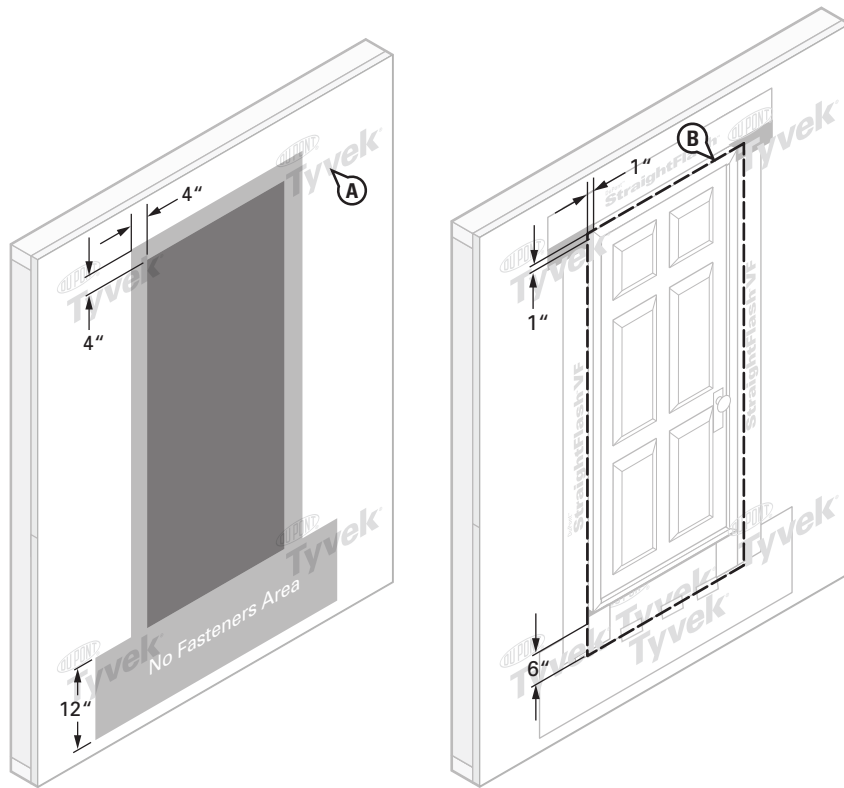




**Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed**

## STEP 11

- A. Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the door frame at jambs and head and within 12" of the door frame at sill or location of apron.
- B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the door frame, and 6" below the sill of the door frame.

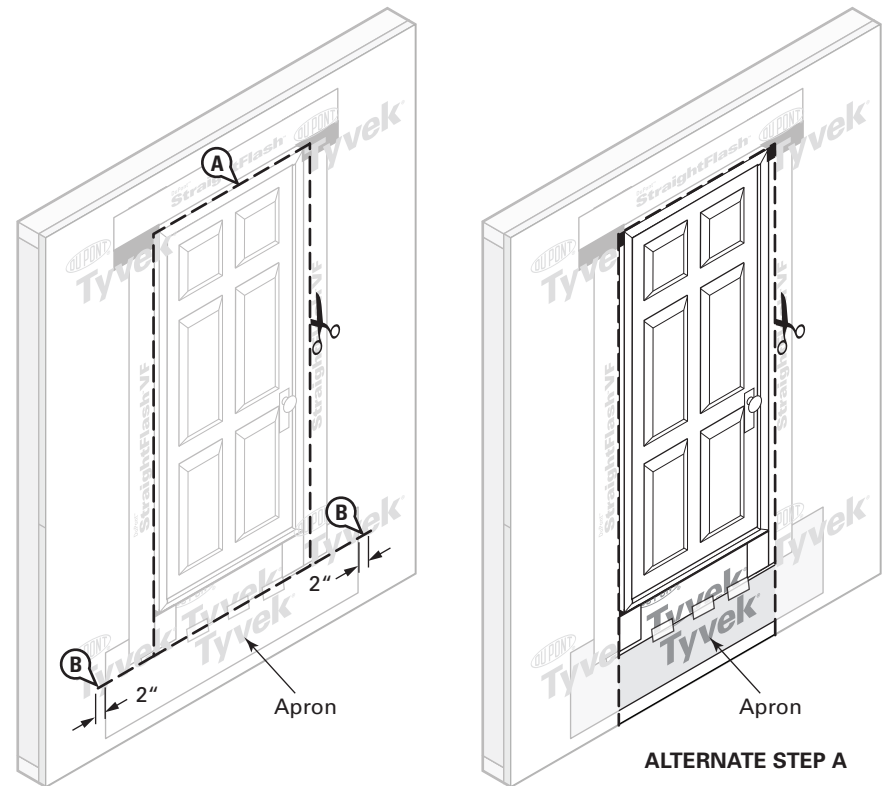


## STEP 12

- A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose door. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

**ALTERNATE STEP A:** If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap apron.

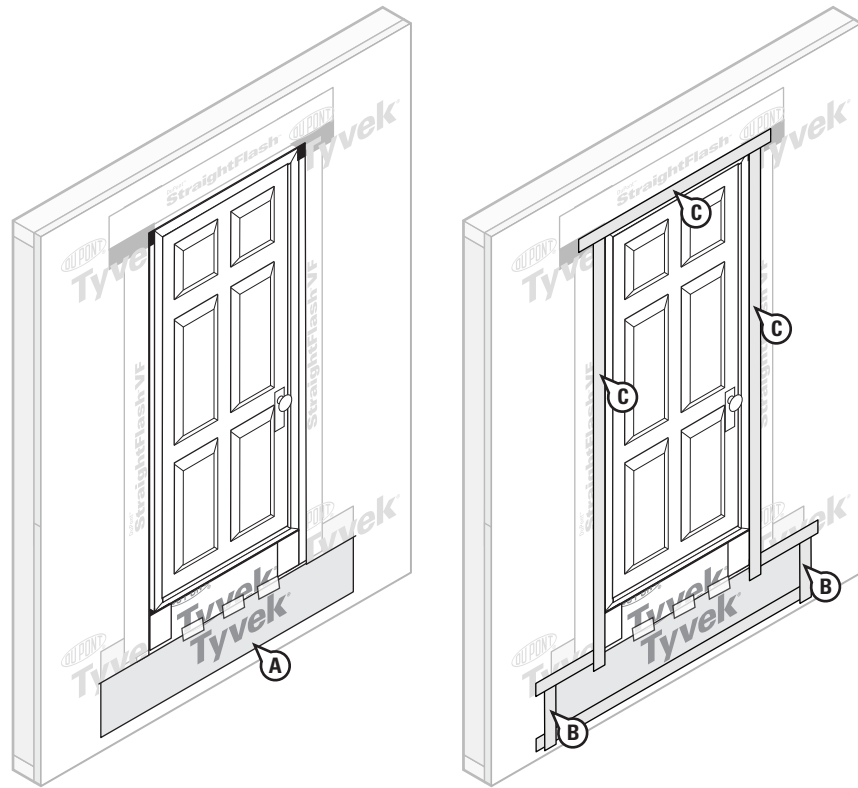
- B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond DuPont™ Tyvek® WRB apron.



## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

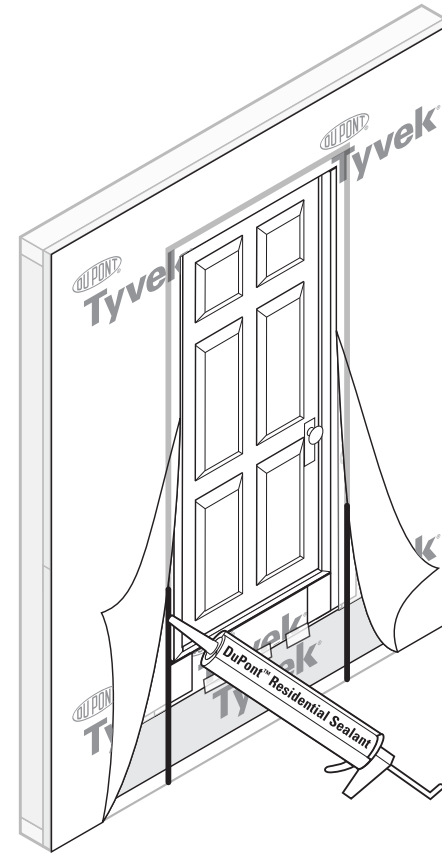
### STEP 13

- A. Bring the bottom portion of the DuPont™ Tyvek® WRB apron through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB apron.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around door. **OPTIONAL:** If installing a drip cap AFTER the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 3.



### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 12A is followed.



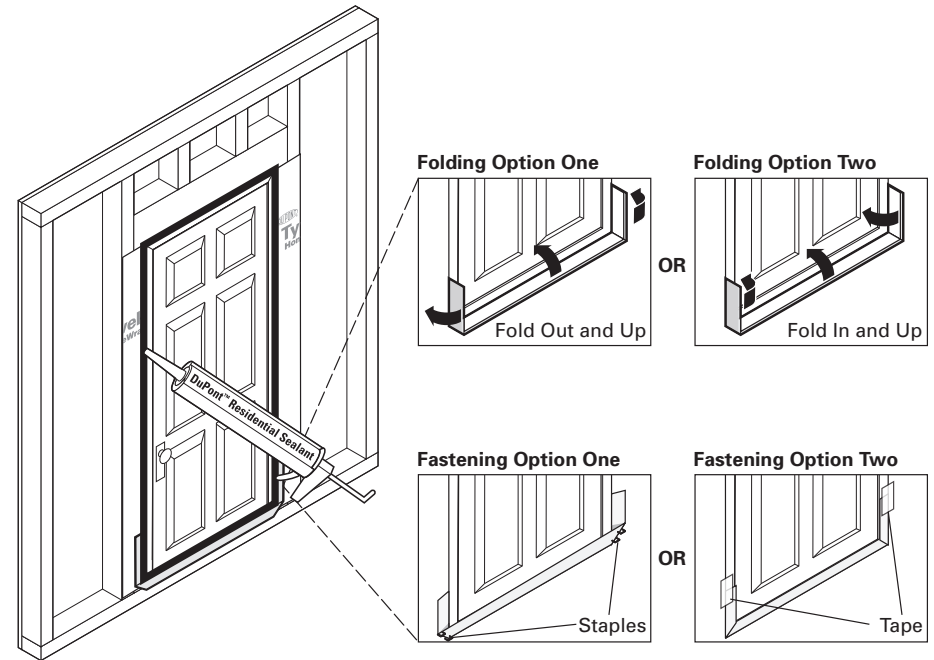
## Non-Flanged Door BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 14

#### Final Step

- A. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two to form back dam.
- B. Install DuPont™ Residential Sealant, or recommended sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. **DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

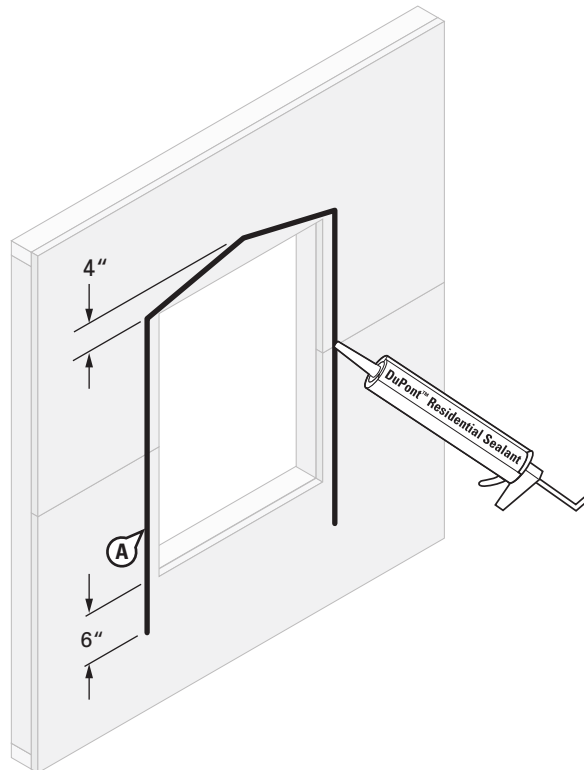
Alternate Installation For Rough Opening Air Barrier Continuity and Head Drainage Detail

This method applies to DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF and DuPont™ Flashing Tape

#### Method 1 – Rough Opening Treatment With Single Piece of DuPont™ Tyvek® WRB

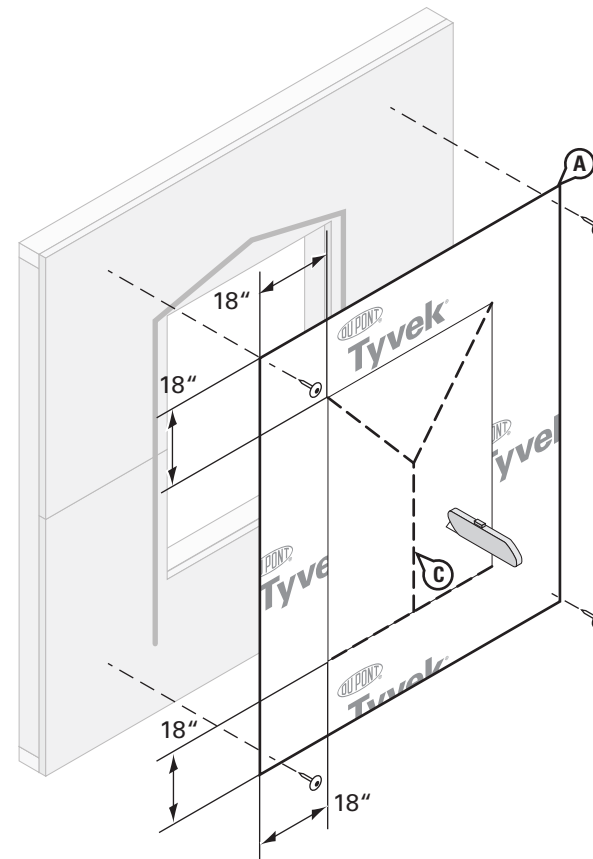
##### STEP 1

- A. Apply a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around jambs and head, angle the sealant to create a 4" peak. Sealant applied along each jamb should extend below sill by a maximum of 6".



##### STEP 2

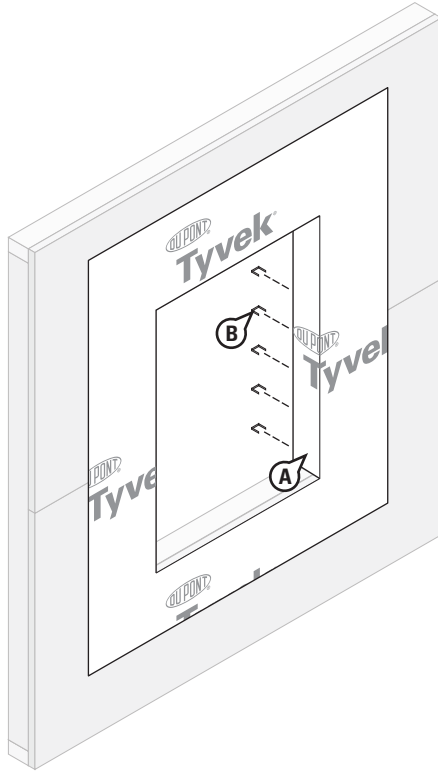
- A. Cut a piece of DuPont™ Tyvek® WRB that is 36" wider and 36" taller than the window rough opening to allow an 18" width around all sides.
- B. Center the piece of DuPont™ Tyvek® WRB over the rough opening and press into the sealant. Fasten along the sides and across the top using DuPont™ Tyvek® Wrap Caps or recommended fastening system. Fasteners should not be installed within 10" of the edge of the rough opening, and no fasteners should be installed within 12" of the bottom edge of the DuPont™ Tyvek® WRB. Avoid placing fasteners where DuPont™ Self-Adhered Flashing products will be installed.
- C. Cut opening as shown.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

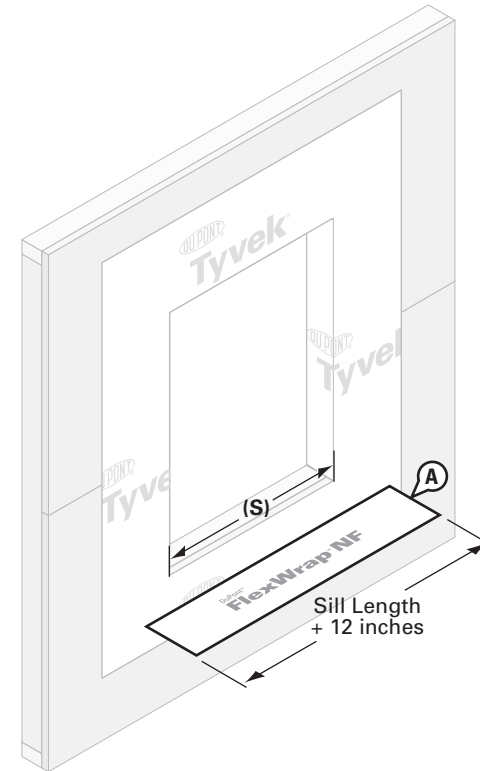
### STEP 3

- A. Fold head and jamb flaps into rough opening.
- B. Secure flaps to inside wall framing using staples. Cut off excess flaps if desired.



### STEP 4

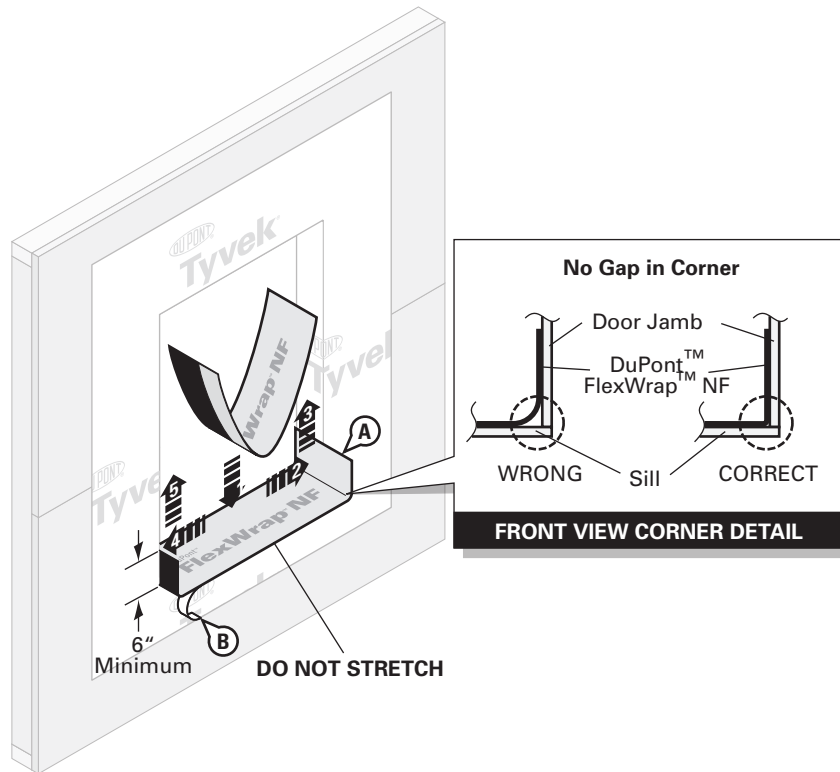
- A. Cut DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion **BEYOND** where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall. Remove wide piece of release paper.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 5

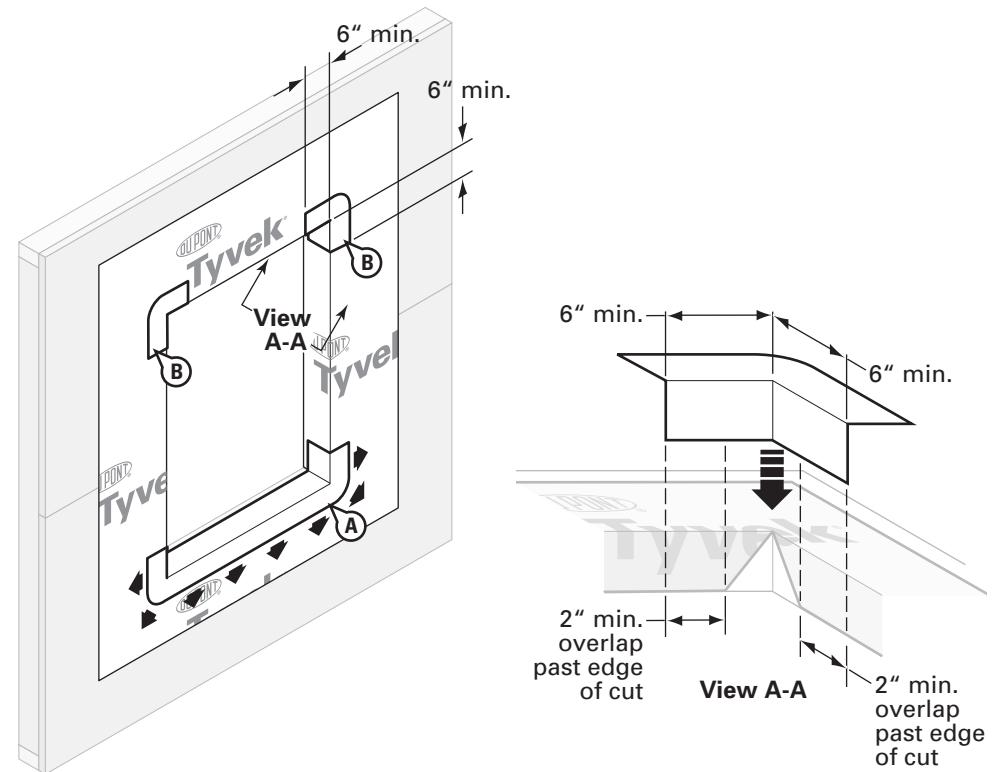
- A. Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- B. Remove narrow release paper.



### STEP 6

- A. Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.
- B. Install a minimum of 12" length of DuPont™ FlexWrap™ NF at each corner of the head to extend a minimum of 6" down the jamb and at least 6" on the head as shown.

**NOTE:** A longer piece of DuPont™ FlexWrap™ may be required to properly cover the exposed areas of the opening to establish a 2" minimum overlap past edge of cut. See detail View A-A.



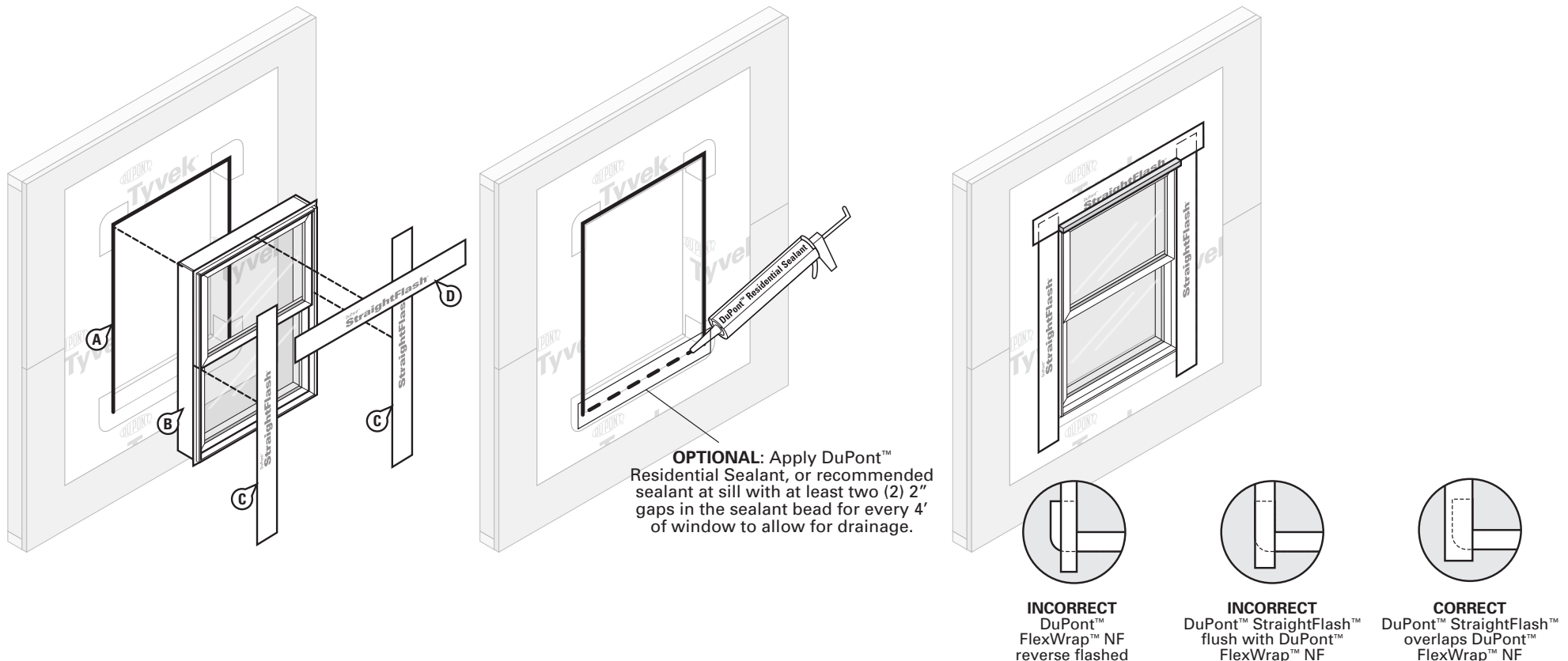
## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 7

- A. Apply DuPont™ Residential Sealant, or recommended sealant, on three sides (jamb and head) as shown below.
- B. Install window according to manufacturer's instructions.
- C. Cut two pieces of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF or DuPont™ Flashing Tape for jamb flashing extending 1" above window head flange and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame. **OPTIONAL:** If installing a drip cap as part of the window installation before the DuPont™ self-adhered flashing membrane at the window head flange, see *Drip Cap Installation* section and refer to Option 1. **NOTE:** The vertical leg of the drip cap must not be taller than the window head flange when installing drip cap according to Option 1.

- D. Cut a piece of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF or DuPont™ Flashing Tape for head flashing, which should extend beyond the outer edges of the jamb flashings. Remove release paper and install to completely cover flange while also adhering to the face of the wall. **OPTIONAL:** If installing a drip cap as part of the window installation, but after the window head flashing, see *Drip Cap Installation* section and refer to Option 2.

**NOTE:** Ensure proper shingling. DuPont™ StraightFlash™ or DuPont™ Flashing Tape must overlap DuPont™ FlexWrap™ NF and adhere to the piece of DuPont™ Tyvek® WRB.

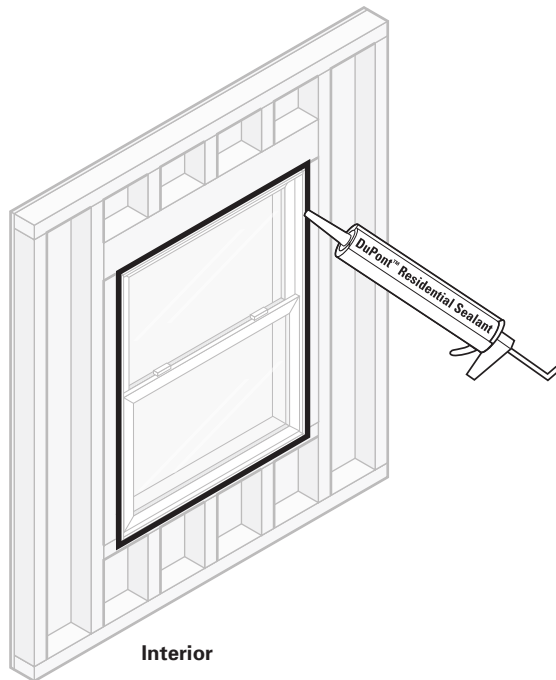


## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 8

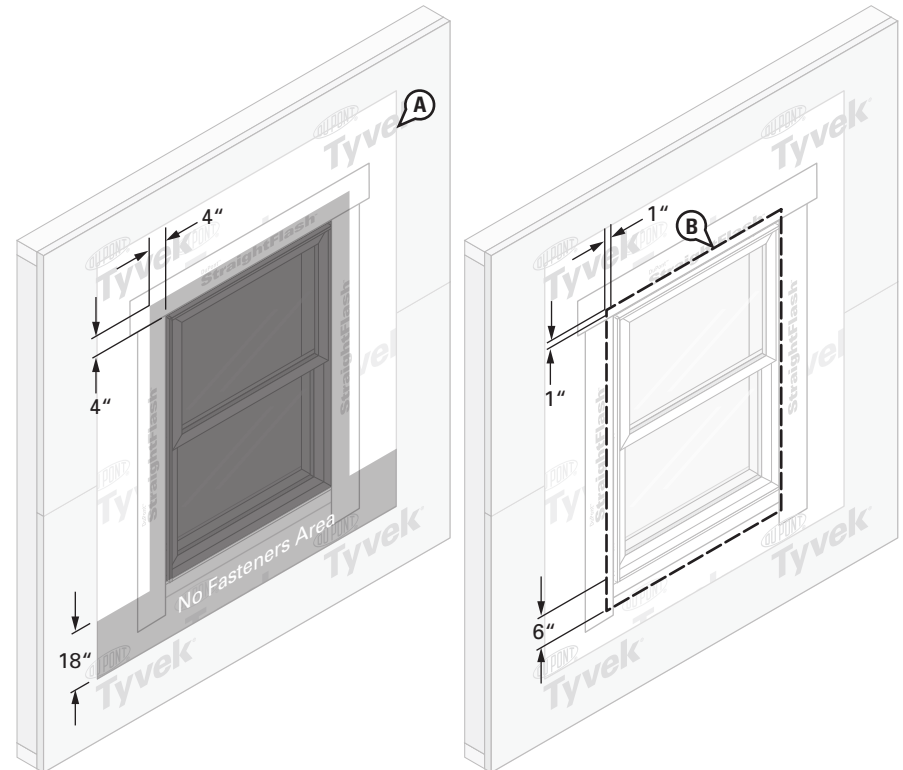
Install DuPont™ Residential Sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. **DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap NF™ around the sill.**

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



### STEP 9

- A. Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the window frame at jambs and head and within 18" of the window frame at sill or location of DuPont™ Tyvek® WRB piece below sill of window.
- B. Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the window frame, and 6" below the sill of the window frame.





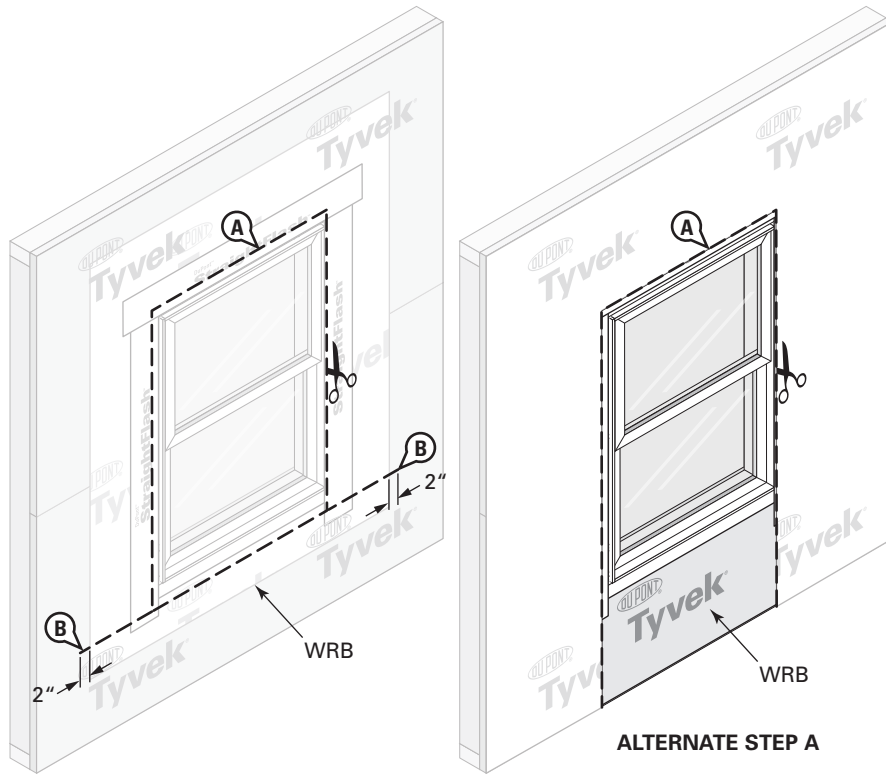
## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 10

A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont™ Self-Adhered Flashing products or the piece of DuPont™ Tyvek® WRB underneath.

**ALTERNATE STEP A:** If piece of DuPont™ Tyvek® WRB extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap the piece of DuPont™ Tyvek® WRB underneath.

B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond the piece of DuPont™ Tyvek® WRB underneath.

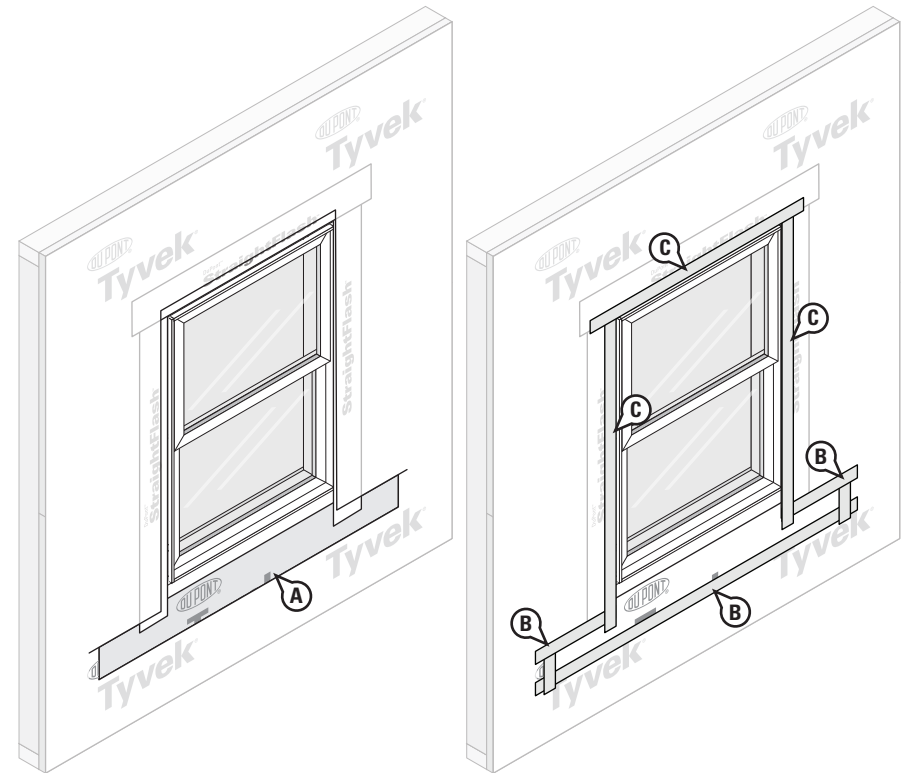


### STEP 11

A. Bring the bottom portion of the piece of DuPont™ Tyvek® WRB underneath through the sill perimeter cut and horizontal slits so it laps over the top layer of DuPont™ Tyvek® WRB.

B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB piece below sill.

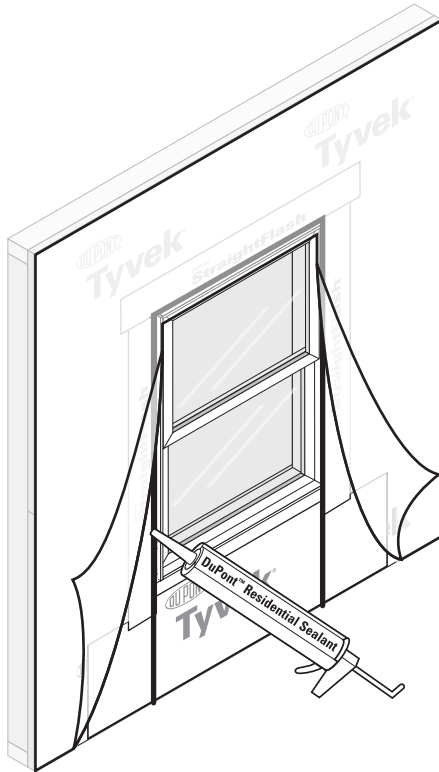
C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around window. **OPTIONAL:** If installing a drip cap **AFTER** the DuPont™ Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 3.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 10A is followed.

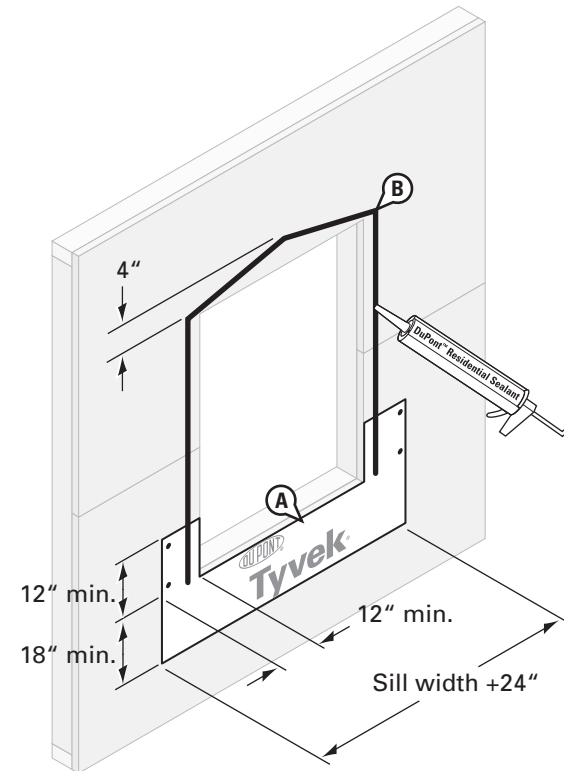


## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### Method 2 – Rough Opening Treatment Using Strips of DuPont™ Tyvek® WRB

#### STEP 1

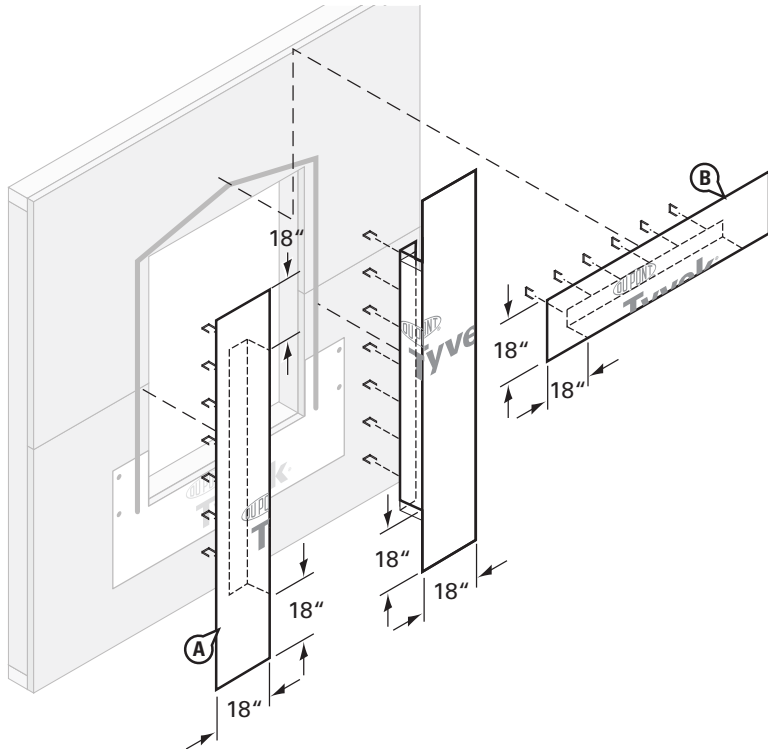
- A. Cut an apron made of DuPont™ Tyvek® WRB for attachment at sill of rough opening. Apron should extend at least 12" up sides and 12" beyond sides of rough opening jambs and at least 12" below sill of rough opening, or extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below. Fasten along the sides and across the top using DuPont™ Tyvek® Wrap Caps or recommended fastening system. Fasteners should not be installed within 10" of the edge of the rough opening, and no fasteners should be installed within 6" of the bottom edge of the DuPont™ Tyvek® WRB. Avoid placing fasteners where DuPont™ Self-Adhered Flashing products will be installed.
- B. Install continuous bead of DuPont™ Residential Sealant, or recommended sealant, around jambs and head. Angle the sealant to create a 4" peak.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

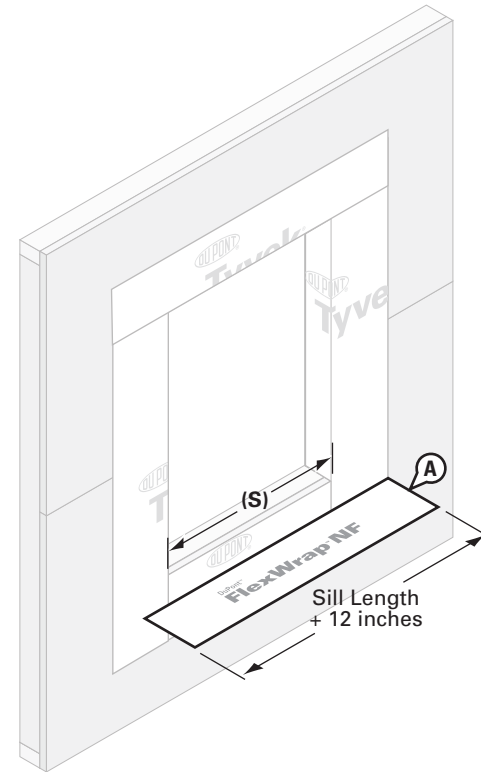
### STEP 2

- A. Cut 2 pieces of DuPont™ Tyvek® WRB for jambs long enough to extend 18" above and below rough opening, and wide enough to extend 18" onto face of wall and wrap into rough opening and onto interior framing. Trim each piece to create flaps as shown. Press the pieces of DuPont™ Tyvek® WRB into the sealant and wrap in and around the studs at the jambs. Staple to inside framing to secure.
- B. Cut 1 piece of DuPont™ Tyvek® WRB for head long enough to extend 18" beyond sides of rough opening, and wide enough to extend 18" onto face of wall and wrap into rough opening and onto interior framing. Trim each piece to create flap as shown. Press the piece of DuPont™ Tyvek® WRB into the sealant and wrap in and around the studs at the head. Staple to inside framing to secure.



### STEP 3

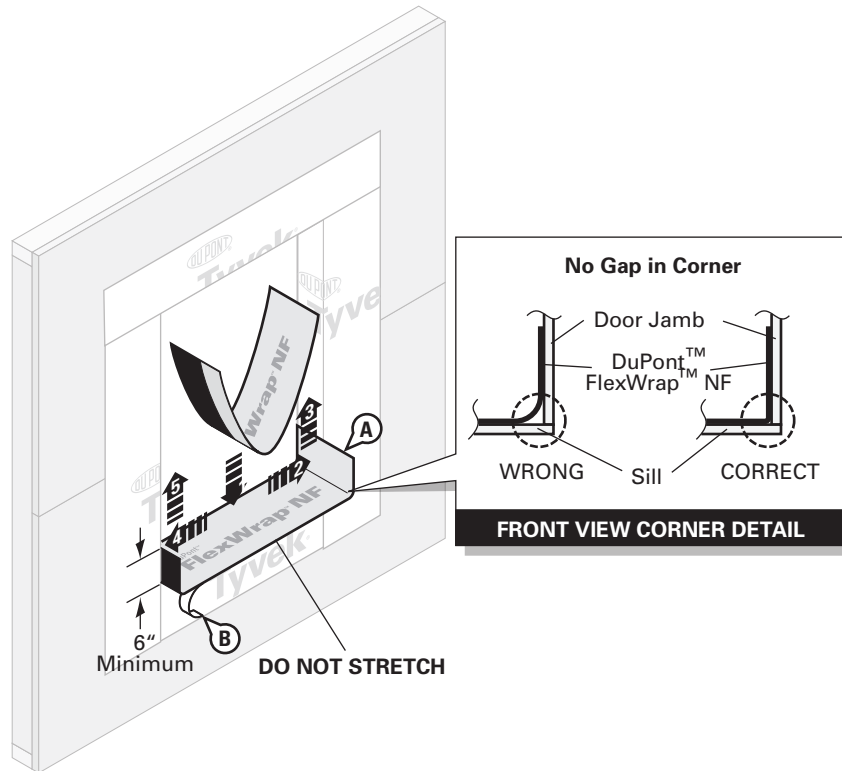
- A. Cut DuPont™ FlexWrap™ NF at least 12" **LONGER** than width of rough opening sill (S). Use roll widths sufficient to achieve a minimum of 1" adhesion **BEYOND** where the window frame will be located, ensuring 2"–3" adhesion onto the face of the wall. Remove wide piece of release paper.



## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 4

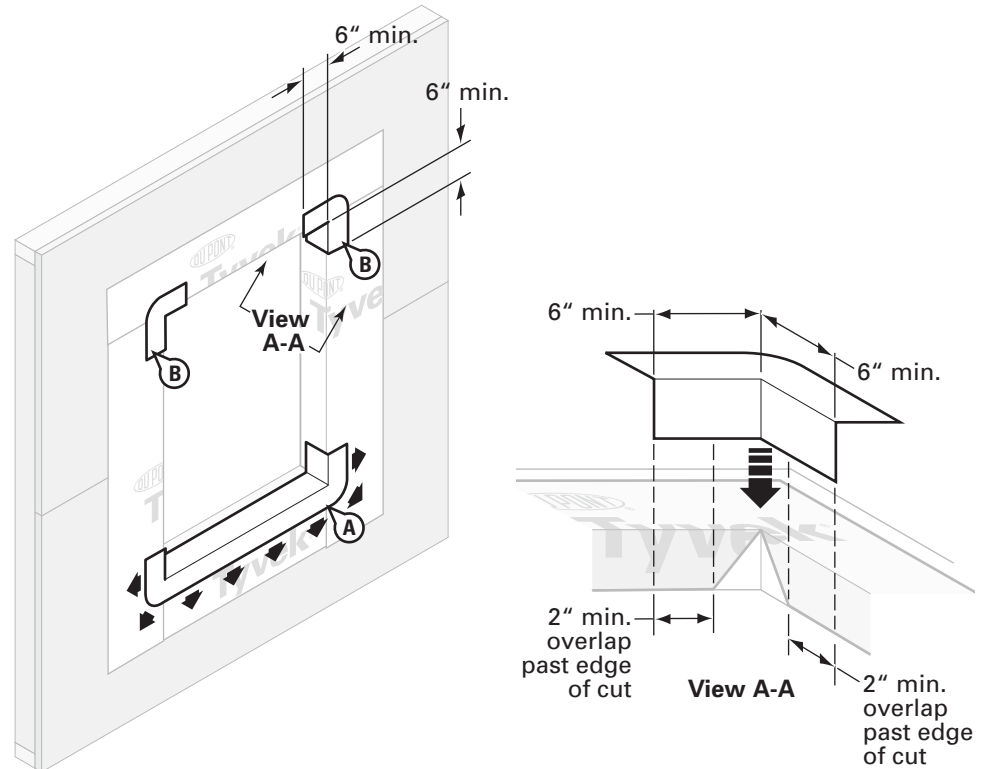
- Position on horizontal sill by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2"–3" of the FlexWrap™ NF will be adhered to the face of the wall with a minimum of 6" up each jamb. Adhere into rough opening.
- Remove narrow release paper.



### STEP 5

- Fan out FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of DuPont™ FlexWrap™ NF should be 2"–3" onto the face of the wall.
- Install a minimum of 12" length of DuPont™ FlexWrap™ NF at each corner of the head to extend a minimum of 6" down the jamb and at least 6" on the head as shown.

**NOTE:** A longer piece of DuPont™ FlexWrap™ may be required to properly cover the exposed areas of the opening to establish a 2" minimum overlap past edge of cut. See detail View A-A.



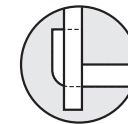
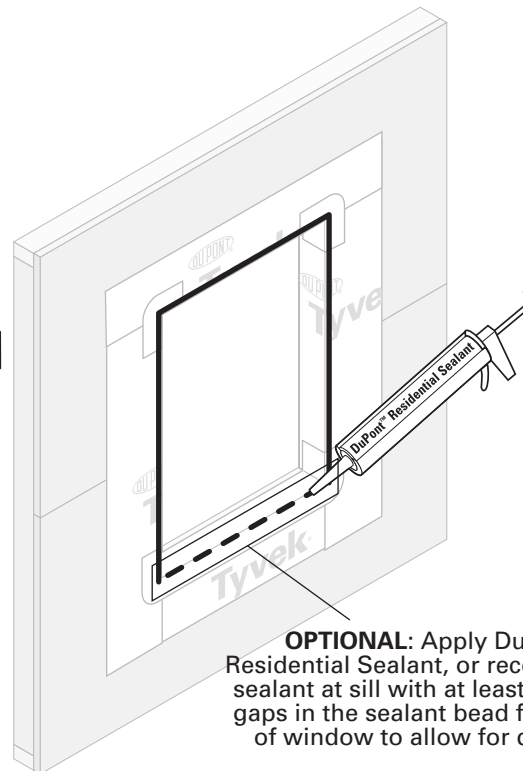
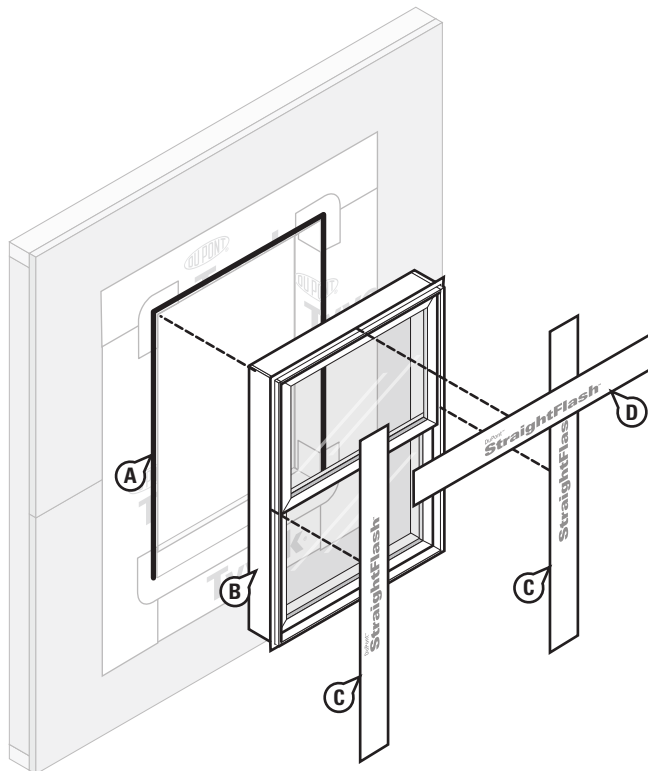
## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 6

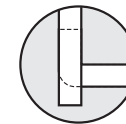
- Apply DuPont™ Residential Sealant, or recommended sealant, on three sides (jamb and head) as shown below.
- Install window according to manufacturer's instructions.
- Cut two pieces of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF or DuPont™ Flashing Tape for jamb flashing extending 1" above window head flange and below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame. **OPTIONAL:** If installing a drip cap as part of the window installation before the DuPont™ self-adhered flashing membrane at the window head flange, see *Drip Cap Installation* section and refer to Option 1. **NOTE:** The vertical leg of the drip cap must not be taller than the window head flange when installing drip cap according to Option 1.

- Cut a piece of DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF or DuPont™ Flashing Tape for head flashing long enough to extend beyond outer edges of jamb flashings. Remove release paper and install completely covering mounting flange and adhering to the DuPont™ Tyvek® WRB pieces. **OPTIONAL:** If installing a drip cap as part of the window installation, but after the window head flashing, see *Drip Cap Installation* section and refer to Option 2.

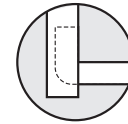
**NOTE:** Ensure proper shingling. DuPont™ StraightFlash™ or DuPont™ Flashing Tape must overlap DuPont™ FlexWrap™ NF and adhere to the pieces of DuPont™ Tyvek® WRB.



**INCORRECT**  
DuPont™  
FlexWrap™ NF  
reverse flashed



**INCORRECT**  
DuPont™ StraightFlash™  
flush with DuPont™  
FlexWrap™ NF



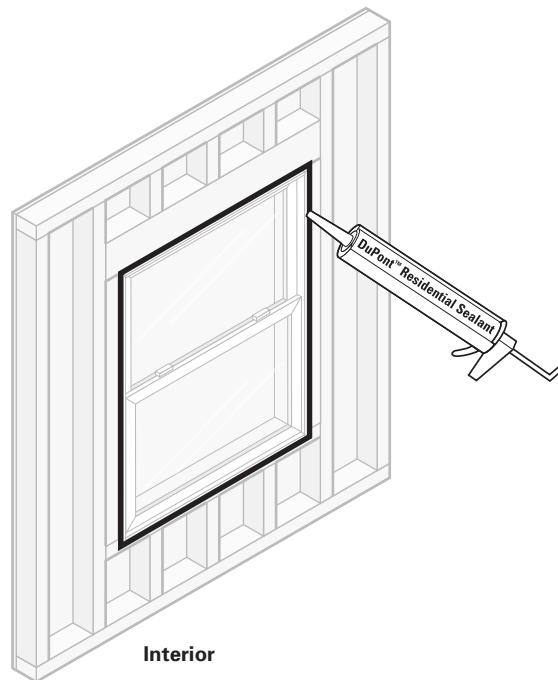
**CORRECT**  
DuPont™ StraightFlash™  
overlaps DuPont™  
FlexWrap™ NF

## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 7

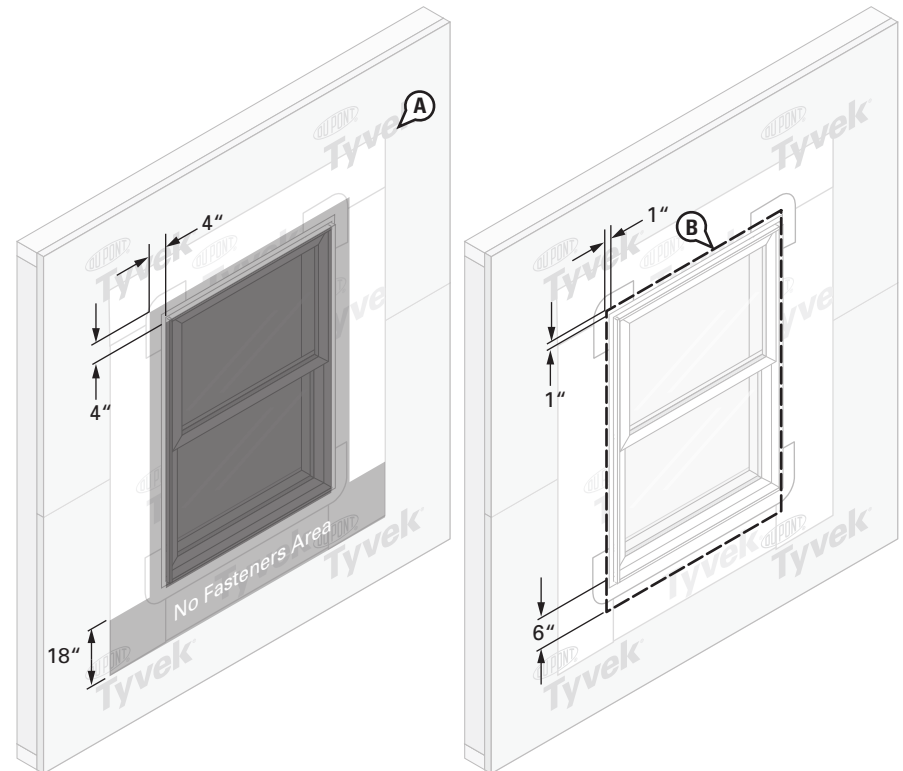
Install DuPont™ Residential Sealant, (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use DuPont™ Window & Door Foam or recommended foam on jambs and head, but it should not be used at sill and 6" up the jambs from the sill. The seal created by the sealant (and backer rod as necessary) or foam will also serve as a back dam. **DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ NF around the sill.**

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See *General Instructions* for performance requirements exceeding this design rating.



### STEP 8

- Install the DuPont™ Tyvek® WRB according to the DuPont™ Tyvek® Water Resistive and Air Barriers Installation Guidelines. Do not install fasteners within 4" of the window frame at jambs and head and within 18" of the window frame at sill or location of DuPont™ Tyvek® WRB piece below sill of window.
- Mark a perimeter on the DuPont™ Tyvek® WRB around the rough opening a minimum of 1" from the jambs and head of the window frame, and 6" below the sill of the window frame.



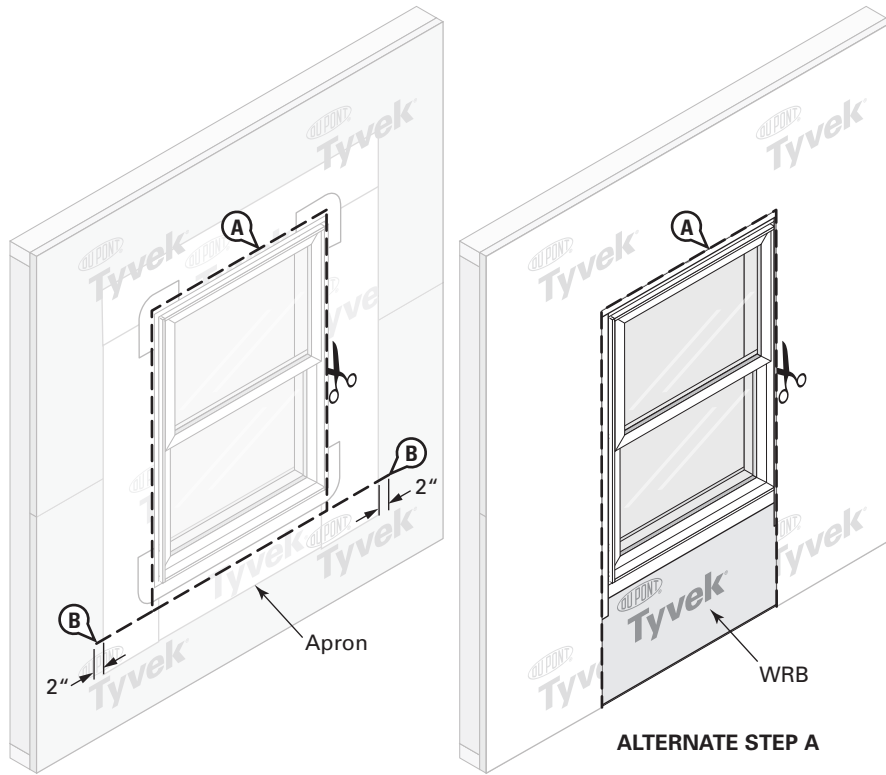
## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### STEP 9

A. Cut the DuPont™ Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont™ Self-Adhered Flashing products or DuPont™ Tyvek® WRB apron underneath.

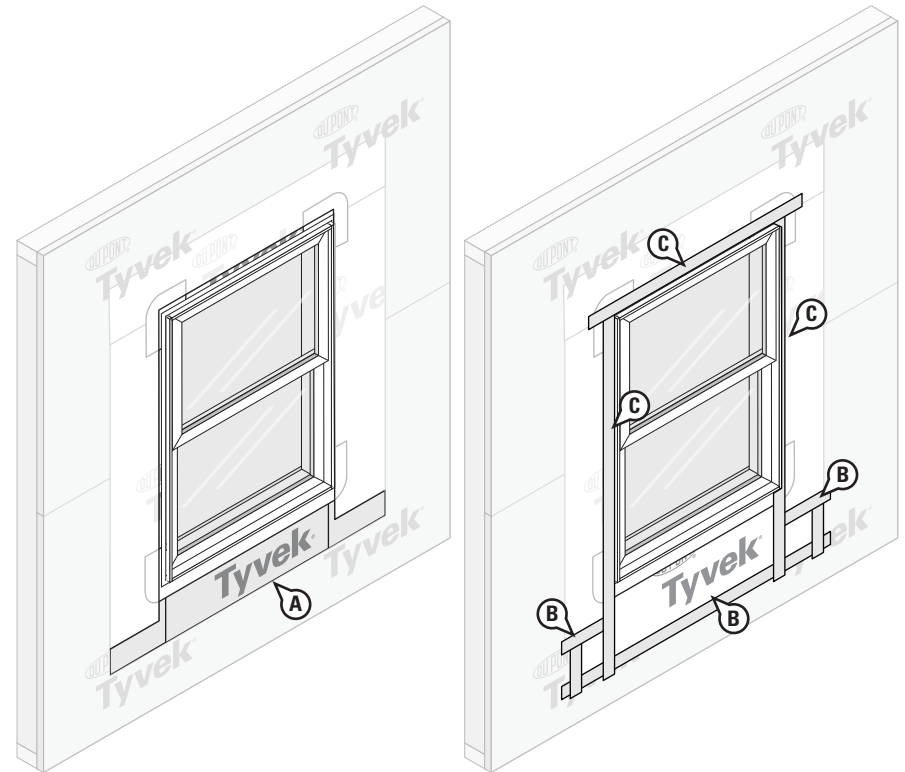
**ALTERNATE STEP A:** If pieces of DuPont™ Tyvek® WRB extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below, the DuPont™ Tyvek® WRB can be cut along jambs and head only to overlap pieces of DuPont™ Tyvek® WRB underneath.

B. Create horizontal slits in the DuPont™ Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2" beyond the pieces of DuPont™ Tyvek® WRB underneath.



### STEP 10

- A. Bring the bottom portion of the pieces of DuPont™ Tyvek® WRB through the sill perimeter cut and horizontal slits to lap over the top layer of DuPont™ Tyvek® WRB.
- B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of DuPont™ Tyvek® WRB pieces below sill.
- C. Install DuPont™ Tyvek® Tape along jambs and head to seal DuPont™ Tyvek® WRB around window. **OPTIONAL:** If installing a drip cap **AFTER** the DuPont™ Tyvek® WRB is installed and sealed, see Drip Cap Installation Section and refer to Option 3

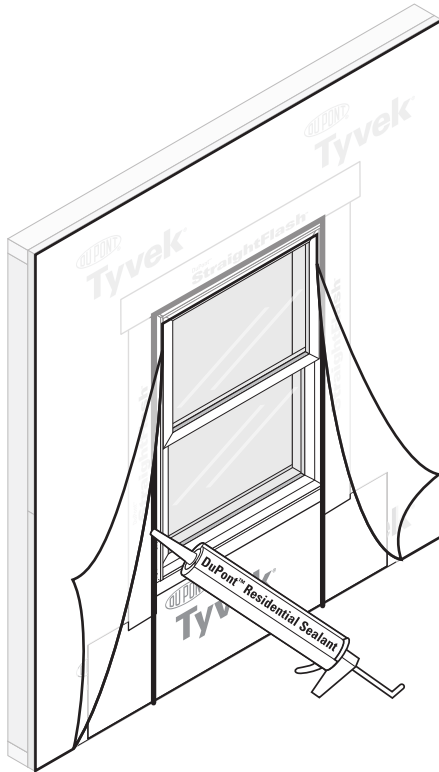




## Integral Flanged Window BEFORE DuPont™ Tyvek® WRB Is Installed

### ALTERNATE TAPE DETAIL

Place a continuous bead of DuPont™ Residential Sealant, or recommended sealant, around the jamb and head flashing under the DuPont™ Tyvek® WRB. Press the DuPont™ Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 10A is followed.





## DuPont™ Tyvek® Building Envelope Solutions Dynamic Installation Guide Appendix

**FOR BUILDINGS LESS THAN 5 STORIES AND LOW-  
RISE MULTI-FAMILY RESIDENTIAL BUILDINGS LESS  
THAN 6 STORIES**

The Tyvek logo, consisting of a horizontal bar with segments of blue, dark blue, and light blue, followed by the word "Tyvek." in a blue, sans-serif font.

### General Instructions

These installation guidelines are intended **for buildings less than 5 Stories and low-rise multi-family residential buildings less than 6 stories** when performance requirements do not exceed ASTM E1677 (65 mph equivalent structural load and 15 mph equivalent wind-driven rain water infiltration), and window/door design ratings that do not exceed DP45.

DuPont™ self-adhered flashing systems products should be installed on clean, dry surfaces that are free of frost. Wipe surfaces to remove moisture, dirt, grease and other debris that could interfere with adhesion.

Apply pressure along entire surface of flashing for a good bond using firm hand pressure, J-roller, or alternate tool without sharp edges (such as a plastic carpet tuck tool) to assist with application of uniform pressure during installation of DuPont™ self-adhered flashing systems products.

Remove all wrinkles and bubbles that may allow for water intrusion by smoothing surface and repositioning as necessary.

When flashing the sill area for windows and doors, DuPont recommends the use of 6" wide DuPont™ FlexWrap™ NF for 2" x 4" framing and 9" wide DuPont™ FlexWrap™ NF for 2" x 6" framing. As an option, if a rigid back dam is desired, cut the corner back dam the length of the sill and nail into place on the interior edge of the sill prior to installation of DuPont™ FlexWrap™ NF. Then install DuPont™ FlexWrap™ NF over sill and corner guard back dam. If using 6" DuPont™ FlexWrap™ NF with optional rigid back dam, seal ends of corner guard with DuPont™ Residential Sealant or recommended sealant.

Door and window rough sill framing must be level or slightly sloped to the exterior to ensure proper drainage to the exterior. This best practice ensures continuous support with positive slope to the exterior.

**DuPont™ self-adhered flashing systems products are not intended for through-wall flashing applications.**

In lieu of temporarily taping, DuPont™ Tyvek® flaps at window head and jambs can be tucked under the DuPont™ Tyvek® air and water barrier.

DuPont™ Residential Sealant should be tooled flat to allow the natural curing process to create a concave joint.

Please contact your local DuPont™ Tyvek® Specialist for additional information and installation support.

**DO NOT STRETCH** DuPont™ FlexWrap™ NF when installing along the length of sills or jambs. DuPont™ FlexWrap™ NF is only intended to be extended when covering corners or curved sections.

DuPont™ self-adhered flashing systems products perform best when installed at temperatures above 25°F (-4°C).

Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where flashing or DuPont™ Tyvek® Tape will be installed; however, DuPont™ Tyvek® Wrap Cap Fasteners can be applied over the flashing.

Adverse weather conditions or cold temperatures may require use of a primer to promote adhesion of DuPont™ self-adhered flashing products to most common building materials. Concrete, masonry, and fiber-faced exterior gypsum board require the use of DuPont™ Adhesive/Primer.

Please call 1-800-44-Tyvek (800-448-9835), visit [www.weatherization.tyvek.com](http://www.weatherization.tyvek.com), or consult your local DuPont™ Tyvek® Specialist for additional information and installation support.

## Applicable Products and Required Materials

### Applicable Products

#### DuPont™ Self-Adhered Flashing Systems Products

PRODUCT	WIDTH
DuPont™ FlexWrap™ NF	6 in 9 in
DuPont™ FlexWrap™ EZ	2.75 in
DuPont™ StraightFlash™	4 in 9 in
DuPont™ StraightFlash™ VF	6 in
DuPont™ Flashing Tape	4 in 6 in 9 in 12 in

#### Water-Resistive Barriers (WRB)

PRODUCT	DIMENSIONS	AREA
DuPont™ Tyvek® HomeWrap®	3 ft x 100 ft	300 sq ft
	3 ft x 165 ft	495 sq ft
	5 ft x 200 ft	1,000 sq ft
	9 ft x 100 ft	900 sq ft
	9 ft x 150 ft	1,350 sq ft
	10 ft x 100 ft	1,000 sq ft
	10 ft x 150 ft	1,500 sq ft
DuPont™ Tyvek® StuccoWrap®	5 ft x 200 ft	1,000 sq ft
DuPont™ Tyvek® DrainWrap™	9 ft x 125 ft	1,125 sq ft
	10 ft x 125 ft	1,250 sq ft
DuPont™ Tyvek® ThermaWrap® LE	5 ft x 150 ft	750 sq ft
	9 ft x 100 ft	900 sq ft
DuPont™ Tyvek® CommercialWrap®	5 ft x 200 ft	1,000 sq ft
	10 ft x 125 ft	1,250 sq ft
DuPont™ Tyvek® CommercialWrap® D	5 ft x 200 ft	1,000 sq ft
	10 ft x 125 ft	1,250 sq ft

### Required Materials Based on Project Requirements, Details, and Specifications\*

PRODUCT
DuPont™ Tyvek® Tape
DuPont™ Tyvek® Wrap Cap Fasteners or recommended fastening system
DuPont™ Window & Door Foam
DuPont™ Residential Sealant, or other recommended sealant
DuPont™ Adhesive/Primer
Backer Rod
Brushes for Surface Preparation
J-Roller

\*Apply per manufacturers' guidelines. For non DuPont products, DuPont assumes no liability in use of recommended products; installers need to evaluate suitability of recommended products in their end-use applications.

### Warranty

Please refer to the [DuPont Weatherization Products 10-Year Limited Warranty for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories](#).

**NOTE:** In order to make a claim under the DuPont Weatherization Products 10-Year Limited Product and Labor Warranty, you must have met all of the terms and conditions of the warranty, including use of the applicable DuPont Installation Guidelines. In the event that a specific detail or installation technique is not covered in the DuPont Installation Guidelines at the time you are building, then the Key Installation Requirements outlined in this document must have been followed in order to make a claim under the warranty. It is in the sole discretion of DuPont to determine if full compliance with the Key Installation Requirements exists. Please contact DuPont or a DuPont™ Tyvek® Specialist if you have any questions regarding any DuPont Installation Guideline.

### Key Installation Requirements for Drainable Window/Door Installation Under the Limited Product and Labor Warranty

When flashing windows or doors, the following principles must be followed:

- When installed properly, DuPont™ StraightFlash™, DuPont™ FlexWrap™ NF, and DuPont™ Flashing Tape provide nail sealability at window/door openings to help protect critical window-wall interfaces. Metal sill pan flashing may be used, but must not replace flexible sill flashing that provides nail sealability.
- DuPont™ self-adhered flashing systems products comply with AAMA 711-13, *Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products*, which has a modified version of ASTM D 1970 that is more representative for vertical wall applications.
- Direct water onto an acceptable air and water barrier drainage plane with an unobstructed path to the exterior of the wall. Provide a drainage path for any water intrusion through the window/door attachment system that collects at the sill.
- Properly integrate flashing with acceptable DuPont™ Tyvek® WRB in accordance with the details in this installation guideline. DuPont™ self-adhered flashing systems products must be applied with a minimum 2" lap onto the WRB.
- DuPont requires that DuPont™ FlexWrap™ NF and StraightFlash™ be covered within nine months (270 days) of installation. DuPont requires that DuPont™ Flashing Tape be covered within four months (120 days) of installation.
- Ensure that window / door and flashing system design takes into account common factors that will impact performance, such as:
  - Climate considerations: Rainfall, Wind, Temperature (hot / cold cycles), Humidity
  - Building design: Window / Wall Design (overhangs, recessed openings, bump-outs), Wall Assembly (wood frame or masonry), Window System (wood or vinyl), New Construction or Replacement Window drainage path
  - UV exposure prior to the construction of the exterior facade
- Field testing the window / door and wall installation as a complete system is a recommended best practice.
- Use of trained installers is highly recommended.

## Technical Specifications

DuPont™ Tyvek® WRBs used in construction products are made from 100% flash spunbonded high density polyethylene fibers which have been bonded together by heat and pressure, without binders or fillers, into a tough durable sheet structure. Additives have been incorporated into the polyethylene to provide ultraviolet light resistance. DuPont requires that DuPont™ Tyvek® CommercialWrap® and CommercialWrap® D be covered within nine months (270 days) of installation and that all other DuPont™ Tyvek® WRB's be covered within 4 months (120 days) of installation.

DuPont™ self-adhered flashing products are made from a synthetic rubber adhesive and a laminate of polyethylene film, polypropylene film, elastic fiber, synthetic rubber adhesive, polyurethane adhesive, and a top sheet of flash spunbonded high density polyethylene fibers or polypropylene film. Additives have been incorporated into these materials to provide ultraviolet light resistance. DuPont requires that DuPont™ FlexWrap™ NF, and StraightFlash™ be covered within nine months (270 days) of installation. DuPont requires that DuPont™ Flashing Tape be covered within four months (120 days) of installation.

## Warning

**DuPont™ Tyvek® WRBs are slippery and should not be used in any application where they will be walked on. In addition, because they are slippery, DuPont recommends using kickjacks, scaffolding, or lifts for exterior work above the first floor. If ladders must be used, extra caution must be taken to use them safely by following the requirements set forth in ANSI Standards 14.1, 14.2, and 14.5 for ladders made of wood, aluminum, and fiberglass, respectively. DuPont™ Tyvek® products are combustible and should be protected from flames and other high heat sources. DuPont™ Tyvek® products will melt at 275°F (135°C) and if the temperature of DuPont™ Tyvek® reaches 750°F (400°C), it will burn and the fire may spread and fall away from the point of ignition. For more information, call 1-800-44-Tyvek.**

**DuPont™ self-adhered flashing products and their release paper are slippery and should not be walked on. Remove release paper from work area immediately. DuPont™ self-adhered flashing products will melt at temperatures greater than 250°F (121°C). DuPont™ self-adhered flashing products are combustible and should be protected from flames and other high heat sources. DuPont™ self-adhered flashing products will not support combustion if the heat source is removed. However, if burning occurs, ignited droplets may fall away from the point of ignition. For more information, call 1-800-44-Tyvek.**

**DuPont™ Residential Sealant is irritating to skin, eyes, and respiratory tract. For proper usage, follow directions stated on the product label. For health information, refer to the Material Safety Data Sheet or call Chemtrec at 1-800-424-9300.**

## Note

When installed in conjunction with other building materials, DuPont™ self-adhered flashing products must be properly shingled with these materials such that water is diverted to the exterior of the wall system. DuPont™ Tyvek® products are air and water barriers and not the primary water barrier. The outer facade is the primary barrier. You must follow facade manufacturer's installation and maintenance requirements for all facade systems in order to maintain water holdout properties and ensure performance of DuPont™ Tyvek® WRBs. Use of additives, coatings or cleansers on or in the facade system may impact the performance of DuPont™ Tyvek® WRBs. DuPont™ Tyvek® Weatherization Systems products are to be used as outlined in this installation guideline. DuPont™ self-adhered flashing products should only be used to seal penetrations and flash openings in houses or buildings. DuPont™ self-adhered flashing products are not to be used in roofing applications. For superior protection against bulk water penetration, DuPont suggests a system combining a quality exterior facade, a good secondary air and water barrier and exterior sheathing, high quality windows and doors, and appropriate flashing materials paying attention to proper installation of each component. In a system where no exterior sheathing is used and DuPont™ Tyvek® WRBs are installed directly over the wall studs, exterior facade materials should be selected to ensure maximum protection against water intrusion. Careful workmanship and proper installation of each component is very important.

DuPont believes this information to be reliable and accurate. The information may be subject to revision as additional experience and knowledge is gained. It is the user's responsibility to determine the proper construction materials needed.

For complete warranty information please visit [www.weatherization.tyvek.com](http://www.weatherization.tyvek.com) or call 1-800-44-Tyvek.

This information is not intended to be used by others for advertising, promotion, or other publication for commercial purposes.

For more information about DuPont Weatherization Systems, please call 1-800-44-Tyvek or visit us at [www.weatherization.tyvek.com](http://www.weatherization.tyvek.com)



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