Air Barrier Rough Opening Treatment for Integral Flanged Windows BEFORE Water-Resistive Barrier (WRB) is Installed

Air Barrier Rough Opening Treatment
for Integral Flanged Windows BEFORE
Water-Resistive Barrier (WRB) is Installed

DuPont™ Self-Adhered Flashing Systems
Installation Guidelines

AIR BARRIER ROUGH OPENING TREATMENT FOR INTEGRAL
FLANGED WINDOWS BEFORE WATER-RESISTIVE BARRIER
(WRB) IS INSTALLED

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

DuPont™ Self-Adhered Flashing Systems Products

<table>
<thead>
<tr>
<th>PRODUCT</th>
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<tbody>
<tr>
<td>DuPont™ FlexWrap™ NF</td>
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<td>DuPont™ StraightFlash™</td>
<td>4 in</td>
</tr>
<tr>
<td>DuPont™ Flashing Tape</td>
<td>4 in</td>
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Water-Resistive Barriers (WRB)

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DuPont™ Self-Adhered Flashing Systems Installation Guidelines

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

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<tr>
<th>PRODUCT</th>
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<tr>
<td>DuPont™ Tyvek® Tape</td>
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<td>DuPont™ Tyvek® Wrap Cap Fasteners or recommended fastening system</td>
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<tr>
<td>DuPont™ Window &amp; Door Foam</td>
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<tr>
<td>DuPont™ Residential Sealant, or other recommended sealant</td>
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<td>DuPont™ Adhesive/Primer</td>
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<td>Brushes for Surface Preparation</td>
<td></td>
</tr>
<tr>
<td>J-Roller</td>
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*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

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.

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.
DuPont™ Self-Adhered Flashing Systems Installation Guidelines

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, or consult your local DuPont™ Tyvek® Specialist for additional information and installation support.

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

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

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

STEP 1
A. Cut a piece of DuPont™ Tyvek® WRB that is 24” wider and taller than the window rough opening.
B. Center the piece of DuPont™ Tyvek® WRB over the rough opening to allow a 12” width around all sides. Secure to sheathing along top edge using DuPont™ StraightFlash™ or DuPont™ Flashing Tape.

C. Install DuPont™ Tyvek® Wrap Caps or recommended fastening system. Fasteners should not be installed within 10” of the edge of the rough opening along jambs and head, and no fasteners should be installed below the sill rough opening. Avoid placing fasteners where DuPont™ self-adhered flashing products will be installed.
**STEP 2**
A. Cut opening as shown.
B. Fold head and jamb flaps into rough opening.
C. Secure flaps to inside wall framing using staples. Cut off excess flaps if desired.
**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.

**STEP 4**

A. Remove wide piece of release paper. Position DuPont™ FlexWrap™ NF 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 5

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

B. Cut (2) 12” long pieces of DuPont™ FlexWrap™ NF for top corners of rough opening. 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 pieces of release paper. Install the cut pieces of DuPont™ FlexWrap™ NF into the rough opening at the top corners of the jamb and head so that the narrow release paper is aligned with the outer edges of the rough opening. Each piece should be folded tight into the corner and extend 6” onto the head and 6” down the jambs as shown.

C. Remove the remaining release paper and fan each DuPont™ FlexWrap™ NF corner pieces out onto the face of the wall.

**NOTE**: Longer pieces of FlexWrap™ NF 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.
STEP 6

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 product 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 DuPont™ Tyvek® WRB.

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

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

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

**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 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 sealant at sill and 6” up jambs in combination with DuPont™ Window & Door Foam or recommended foam at remaining interior cavity. If foam is installed around entire interior cavity, sealant should be installed at sill and 6” up jambs after foam to ensure a proper water seal. The seal created at the interior sill will also serve as a back dam, but should not interfere with drainage. 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 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 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.
DuPont™ Self-Adhered Flashing Systems Installation Guidelines

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 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 10
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.
**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.
Method 2 – Rough Opening Treatment Using Strips of DuPont™ Tyvek® WRB

Alternate Installation For Air Barrier Continuity Into Rough Opening

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

**STEP 1**

A. Cut an apron made of DuPont™ Tyvek® WRB that is 24” LONGER than sill rough opening (S) and a minimum of 18” wide, or extend far enough below the sill to overlap the sill plate, base of wall flashing, or the DuPont™ Tyvek® WRB below.

B. Position apron over rough opening to extend 12” beyond rough opening jambs and 6” above rough opening sill. The top of the apron should be securely attached to the wall using DuPont™ Tyvek® Wrap Cap Fasteners or recommended fasteners. Fasteners should not be installed within 10” of the edge of the rough opening along jambs, and no fasteners should be installed below the sill rough opening. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ self-adhered flashing products will be installed.

C. Cut apron along jamb and sill edges of rough opening as shown.

**STEP 2**

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.
**STEP 3**

A. Remove wide piece of release paper. Position DuPont™ FlexWrap™ NF 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 DuPont™ 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 4**

A. Fan out DuPont™ FlexWrap™ NF at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ NF should be 2” – 3” onto the face of the wall.
STEP 5

A. Cut a piece of DuPont™ Tyvek® WRB that is 18” wide and 4” LONGER than jamb rough opening (J) to create jamb piece.

B. Position piece to extend 12” beyond jamb rough opening and 2” above sill rough opening to overlap the apron and DuPont™ FlexWrap™ NF at sill. The cut piece of piece of DuPont™ Tyvek® WRB will extend 6” above rough opening.

C. Secure to wall using DuPont™ Tyvek® Wrap Cap Fasteners or recommended fasteners. Fasteners should not be installed within 10” of the edge of the rough opening along jambs. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners where DuPont™ self-adhered flashing products will be installed.

D. Cut along the edge of head rough opening and fold resulting flap into the rough opening.

E. Secure to inside wall and cut off excess flap if desired.

F. OPTIONAL: Remove piece of DuPont™ Tyvek® WRB at head by making a vertical cut at corner of the rough opening.

G. Repeat Steps A thru E for opposite jamb.
**DuPont™ Self-Adhered Flashing Systems Installation Guidelines**

**STEP 6**
A. Tape bottom edges of jamb liner seam along face of wall using DuPont™ Tyvek® Tape.
B. Install 4” wide DuPont™ StraightFlash™ or DuPont™ Flashing Tape along bottom edge of jamb liner in rough opening, extending onto the face of the wall by 2”– 3”.

**STEP 7**
A. Cut a piece of DuPont™ Tyvek® WRB that is 24” LONGER than the rough opening and 18” wide to create the head piece.
B. Center over rough opening with the bottom edge extending below the rough opening head by 6”.
C. Secure to sheathing along top edge using DuPont™ StraightFlash™ or DuPont™ Flashing Tape.
**STEP 8**
A. Make horizontal cuts that allow resulting flaps to be folded into rough opening. Cuts should be made carefully to avoid damaging the jamb pieces underneath, and should extend from each corner of the rough opening to the outside edges of head piece.
B. Secure flap to head framing with DuPont™ Tyvek® Wrap Caps or recommended fastener system. Do not install fasteners within 6” of corners.

**STEP 9**
A. Trim resulting flaps at each jamb to a length of 4” and temporarily secure with DuPont™ Tyvek® Tape to help facilitate installation of corner flashing in Step 10.
B. Tape horizontal seams along face of wall using DuPont™ Tyvek™ Tape.
STEP 10
A. Cut (2) 12” long pieces of DuPont™ FlexWrap™ NF for top corners of rough opening. 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 pieces of release paper. Install the cut pieces of DuPont™ FlexWrap™ NF into the rough opening at the top corners of the jamb and head so that the narrow release paper is aligned with the outer edges of the rough opening. Each piece should be folded tight into the corner and extend 6” onto the head and 6” down the jambs as shown. **NOTE:** Ensure a 2” min. overlap of DuPont™ Tyvek® flap at jamb (see diagram below).

B. Remove the remaining release paper and fan each DuPont™ FlexWrap™ NF corner piece out onto the face of the wall.
STEP 11

A. Apply DuPont™ Residential Sealant, or recommended sealant, on three sides (jambs 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™, DuPont™ FlexWrap™ NF or DuPont™ Flashing Tape installed over flanges at head and jambs must overlap DuPont™ FlexWrap™ NF at sill and head corners and adhere to the piece 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

**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 12**

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 13**

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.
**STEP 14**

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 15**

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.
**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.
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 product 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.
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

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

**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.
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

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

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.
**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™ EZ, 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™ 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 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.