Windows and Doors Installed **BEFORE** the **DuPont™ Tyvek®** Water-Resistive and Air Barrier (WRB)

For Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories

October 2020
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This installation guideline outlines recommended installation techniques and details for DuPont Self-Adhered Flashing Products, and where applicable, DuPont™ Tyvek® HomeWrap®, Tyvek® StuccoWrap®, Tyvek® DrainWrap”, Tyvek® ThermaWrap® LE, Tyvek® CommercialWrap® and/or Tyvek® CommercialWrap® D, referred to in this document as DuPont™ Tyvek® Water-Resistive and Air Barriers (Tyvek® WRBs), and DuPont™ Tyvek® Fluid Applied Products. Both Tyvek® WRBs and Tyvek® Fluid Applied Products meet the requirements of a water-resistant barrier as defined in the 2018 International Residential Code (IRC) and the 2018 International Building Code (IBC).

This Installation Guideline pertains to buildings less than 5 stories and low-rise multi-family residential buildings less than 6 stories. For additional information regarding DuPont Installation Guidelines usage for wood framed multi-family buildings, please refer to the Multi-Family User’s Bulletin for Installation of DuPont Building Envelope Solutions Products.

**Applicable Products**

**Water-Resistive and Air Barriers (Tyvek® WRBs)**

<table>
<thead>
<tr>
<th>Product</th>
<th>Dimensions</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ Tyvek® HomeWrap®</td>
<td>3 ft x 100 ft</td>
<td>300 sq ft</td>
</tr>
<tr>
<td></td>
<td>3 ft x 165 ft</td>
<td>495 sq ft</td>
</tr>
<tr>
<td></td>
<td>5 ft x 200 ft</td>
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<tr>
<td></td>
<td>9 ft x 100 ft</td>
<td>900 sq ft</td>
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<tr>
<td></td>
<td>9 ft x 150 ft</td>
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<td></td>
<td>10 ft x 100 ft</td>
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<tr>
<td></td>
<td>10 ft x 150 ft</td>
<td>1,500 sq ft</td>
</tr>
<tr>
<td>DuPont™ Tyvek® StuccoWrap®</td>
<td>5 ft x 200 ft</td>
<td>1,000 sq ft</td>
</tr>
<tr>
<td>DuPont™ Tyvek® DrainWrap®</td>
<td>9 ft x 125 ft</td>
<td>1,125 sq ft</td>
</tr>
<tr>
<td></td>
<td>10 ft x 125 ft</td>
<td>1,250 sq ft</td>
</tr>
<tr>
<td>DuPont™ Tyvek® ThermaWrap® LE</td>
<td>5 ft x 150 ft</td>
<td>750 sq ft</td>
</tr>
<tr>
<td></td>
<td>9 ft x 100 ft</td>
<td>900 sq ft</td>
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<tr>
<td>DuPont™ Tyvek® CommercialWrap®</td>
<td>5 ft x 200 ft</td>
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<td></td>
<td>10 ft x 125 ft</td>
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<tr>
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</tr>
<tr>
<td></td>
<td>10 ft x 125 ft</td>
<td>1,250 sq ft</td>
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**Self-Adhered Flashing Products**

<table>
<thead>
<tr>
<th>Product</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>DuPont™ FlexWrap™</td>
<td>6 in, 9 in</td>
</tr>
<tr>
<td>DuPont™ StraightFlash™</td>
<td>4 in, 9 in</td>
</tr>
<tr>
<td>DuPont™ VersaFlange™ (Formerly DuPont™ StraightFlash™ VF)</td>
<td>6 in</td>
</tr>
<tr>
<td>DuPont™ Flashing Tape</td>
<td>4 in, 6 in, 9 in, 12 in</td>
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**Fluid Applied Products**

<table>
<thead>
<tr>
<th>Product</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ Tyvek® Fluid Applied WB+™</td>
<td>5 gal, 50 gal</td>
</tr>
<tr>
<td>DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+</td>
<td>28 oz, 3.5 gal</td>
</tr>
<tr>
<td>DuPont™ Sealant for Tyvek® Fluid Applied*</td>
<td>28 oz</td>
</tr>
</tbody>
</table>

*DuPont™ Sealant for Tyvek® Fluid Applied System should only be used as directed in the applicable DuPont™ Tyvek® Fluid Applied Products Installation Guidelines.

**Installation Accessories**

<table>
<thead>
<tr>
<th>Product</th>
<th>Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ Adhesive/Primer</td>
<td>Can</td>
<td>13.5 oz</td>
</tr>
<tr>
<td>DuPont™ Tyvek® Tape</td>
<td>2” Bulk Pack</td>
<td>36 rolls/case</td>
</tr>
<tr>
<td></td>
<td>3” Bulk Pack</td>
<td>24 rolls/case</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ Tyvek® Wrap Cap Fasteners</td>
<td>Can (reusable dispensing gun sold separately)</td>
<td>20 oz</td>
</tr>
<tr>
<td>Great Stuff Pro™ Window &amp; Door Polyurethane Foam Sealant</td>
<td>Can (reusable dispensing gun sold separately)</td>
<td>20 oz</td>
</tr>
</tbody>
</table>

**Tower® Residential Sealant**

(fomerly DuPont® Residential Sealant)

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

- Backer Rod
- Sealant
- Brushes for Surface Preparation
- J-Roller
- Trowels
- Rodenhouse Grip-Deck® screws with Thermal-Grip FastCap™ washers

1Apply 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.

2For information regarding chemically compatibility of sealants, see technical bulletin Chemical Compatibility of Representative Building Sealants and Adhesives/Primers.

3For information regarding installation of Rodenhouse fasteners, refer to the DuPont™ Tyvek® Water-Resistive and Air Barrier Installation Guidelines For Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories.
Warranty

NOTE: In order to make a claim under the DuPont Performance Building Solutions 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 available at the date of original installation. In the event that a specific detail or installation technique is not covered in the DuPont Installation Guidelines at the time of construction, then the Key Installation Requirements for Drainable Window/Door Installation 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 for Drainable Window/Door Installation exists. Please contact DuPont or a DuPont Representative if you have any questions regarding any DuPont Installation Guideline.

Special Considerations

1. When performance requirements exceed ASTM E1677, 65 mph equivalent structural load and 15 mph equivalent wind-driven rain water infiltration for buildings less than 5 stories, it is recommended to install a high pressure skirt to help prevent water intrusion at the sill or threshold and follow the DuPont™ Tyvek® Mechanically-Fastened Weather-Resistive Barrier Installation Guidelines For Buildings Greater Than 4 Stories and High Performance Installations of Any Height and the DuPont Self-Adhered Flashing Systems Installation Guidelines For Buildings Greater Than 4 Stories and High Performance Installations of Any Height.

2. DuPont Self-Adhered Flashing 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.


4. 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 or recommended primer.

5. 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 Products.

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

7. DuPont Self-Adhered Flashing Products are not intended for through-wall flashing applications.

8. When flashing the sill area for windows and doors, DuPont recommends the use of 6" wide DuPont™ FlexWrap™ for 2" x 4" framing and 9" wide FlexWrap™ for 2" x 6" framing. When rigid back dams are required or desired, an option would be to use a ¼” corner guard (back dam) cut to the length of the sill and nail into place on the interior edge of the sill prior to installation of 9" wide FlexWrap™. Then install 9" wide FlexWrap™ over sill and corner guard back dam.

9. DO NOT STRETCH FlexWrap™ when installing along sills or jambs. FlexWrap™ is only intended to be stretched when covering corners or curved sections.

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

11. Great Stuff Pro™ Window and Door Polyurethane Foam Sealant can be used in lieu of sealant to create a continuous seal around the interior perimeter of the window openings. When using Great Stuff Pro™ Window and Door Polyurethane Foam Sealant in perimeter openings less than ¼”, apply using the plastic extension tip for the Great Stuff™ Dispenser Gun during installation.

12. For high performance installations exceeding ASTM E1677 wind loading pressures (10.8 psf, 65 mph equivalent structural load) and ASTM E331 water infiltration resistance of 6.24 psf, it is necessary to install sealant over the cured foam when using Great Stuff Pro™ Polyurethane Foam Sealant or other recommended foam. Sealant should be installed over the foam between the window frame and rough opening around the entire interior perimeter. If Great Stuff Pro™ Polyurethane Foam Sealant, or other recommended foam, extends beyond the window frame, shave the excess cured foam flush with the window frame before applying sealant. Avoid damaging the DuPont Self-Adhered Flashing, DuPont™ Tyvek® Fluid Applied Products or DuPont™ Tyvek® WRB.

13. For extreme/coastal exposures installation of a high-pressure skirt is recommended to help prevent water intrusion at the sill or threshold.

14. For high pressure design loads, the use of DuPont™ StraightFlash™ with Tyvek® Wrap Cap Fasteners, or recommended fasteners, is required to secure the head flap of the flexible flashing.

15. Before applying DuPont™ Tyvek® Tape, surfaces should be dry and clean. During installation apply firm, even pressure with hand or “J” roller.

16. In lieu of temporarily taping, Tyvek® WRB flaps at window head and jambs can be tucked under the installed Tyvek® WRB.

17. 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.
Special Considerations (continued)

18. For window or door openings greater than 6 feet wide, DuPont™ Flashing Tape or DuPont™ StraightFlash™ can be used with DuPont™ FlexWrap™ in 3-piece sill applications. DuPont™ Flashing Tape or StraightFlash™ should be applied along the length of the sill prior to placing the FlexWrap™ corners. The FlexWrap™ corners should be at least 12” long allowing for 6” up the jamb and 6” of overlap on the StraightFlash™ sill flashing. NOTE: DuPont™ Flashing Tape can be used along the length of the sill for wood-framed buildings not exceeding ASTM E1677 wind loading pressures (10.8 psf, 65 mph equivalent structural load) and ASTM E331 water infiltration resistance of 6.24 psf, based on window design not exceeding DP 45.

19. Packaged Terminal Air Conditioners (PTAC) units can be flashed in accordance with the non-flanged window section or with the DuPont™ VersaFlange™ for brick mold window sections of this installation guideline. Suitable substrates for DuPont™ Tyvek® Fluid Applied Products include concrete masonry unit (CMU), concrete (48 hrs. for green concrete), exterior gypsum, OSB, plywood, wood, and metal. Contact your local DuPont Representative for use with pressure treated or fire retardant treated wood (FRT).

20. Tyvek® Fluid Applied Products should only be used for wall systems that include a continuous path for drainage allowing moisture that penetrates the facade to exit to the exterior. The drainage path should be continuous throughout the wall assembly, including but not limited to areas such as eyebrows, band boards, penetrations, or other locations where transitions and changes of plane occur. For membrane drainage wall systems, ensure that the drainage path is not blocked or disrupted to prevent excess moisture buildup in the wall cavity.

21. Tyvek® Fluid Applied Products must not come in contact with building wraps due to potential impact on performance properties.

22. DuPont™ Tyvek® CommercialWrap™ and Tyvek® CommercialWrap® D may be installed over Tyvek® Fluid Applied Products after 48 hours of curing at 70°F (20°C) and 50% RH.

23. DuPont™ Tyvek® HomeWrap®, Tyvek® StuccoWrap®, and/or Tyvek® DrainWrap™ should not come in direct contact with cured or uncured Tyvek® Fluid Applied Products.

24. Tyvek® Fluid Applied Products can be applied to damp surfaces. A surface is considered damp if there is no visible water on the surface and no transfer of water to the skin when touched.

25. DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ can be troweled or brushed to the required thickness in any application outlined in the guide.

27. Tyvek® Fluid Applied Products should be applied when air and surface temperatures are above 25°F. Do not install once the ambient temperature exceeds 95°F (35°C), unless the application surface is shaded. The maximum surface temperature for application is 140°F (60°C).

28. Tyvek® Fluid Applied Products may be overcoated once a tack-free skin has formed. Exterior insulation and/or exterior facade may be installed after Tyvek® Fluid Applied Products have cured for 48 hours. Please refer to Drying/Curing information in the DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines.

29. Performance testing, included but not limited to peel adhesion, pull strength analysis, field or third-party testing of air and/or water barrier properties, should be conducted after Tyvek® Fluid Applied Products are fully cured (~14 days).

30. Tyvek® WRBs must not come in direct contact with other manufacturers’ cured or uncured fluid-applied and/or deck coating waterproofing products due to potential impact on performance properties. StraightFlash™ can be used as transitional membrane.

31. DuPont requires Tyvek® HomeWrap®, Tyvek® StuccoWrap®, and Tyvek® DrainWrap™ to be covered within 4 months (120 days) of installation. DuPont requires Tyvek® CommercialWrap™ and Tyvek® CommercialWrap® D and Tyvek® Fluid Applied Products to be covered within 9 months (270 days) of installation.

32. The maximum in-service temperature for Tyvek® WRBs, DuPont Self-Adhered Flashing Products, and Tyvek® Fluid Applied Products is 180°F.

33. Tower® Residential Sealant (formerly DuPont® Residential Sealant) is designed for use with DuPont products and can be used where sealant is outlined in this guide. This change represents a branding change only—chemical composition and performance characteristics of the sealant are unchanged.

34. For details regarding flashing garage door openings, refer to Installation Instructions for Garage Doors Installed AFTER the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) is Installed for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories.

For additional guidance, please call 1-833-338-7668, visit our website at building.dupont.com, or consult your local DuPont Representative.
Key Installation Requirements for Drainable Window/Door Installation

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

- When installed properly, **DuPont™ StraightFlash™**, **DuPont™ VersaFlange™**, **DuPont™ FlexWrap™**, 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 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 D1970 and it is more representative for vertical wall applications.

- **Tyvek® Fluid Applied Flashing and Joint Compound+** complies with AAMA 714-19, *Voluntary Specification for Liquid Applied Flashing Used to Create a Water-Resistant Seal around Exterior Wall Openings in Buildings*.

- Ensure that sill flashing does not slope to the interior. An exterior slope is recommended, but not required.

- 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**. **DuPont Self-Adhered Flashing Products** must be applied with a minimum 2” lap onto the WRB.

- DuPont requires that **FlexWrap™**, **FlexWrap™ EZ**, **StraightFlash™**, and **VersaFlange™** be covered within 9 months (270 days) of installation. DuPont requires that **DuPont™ Flashing Tape** be covered within 4 months (120 days) of installation.

- Properly prepare all surfaces (remove dirt, dust, or moisture, etc.) per manufacturer’s recommendations.

- Barrier installations (full perimeter seal on exterior) are acceptable only in the following instances: Slab on grade doors, store front windows, or other systems with built-in drainage mechanisms that have potential for exposure to standing water
  - Surface barrier wall systems with non-water sensitive framing material (i.e., CMU walls)
  - Very low wind / rain exposure regions (southwest / desert) that follow AAMA 2400 installation guideline

- 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

- Compliance with fire resistance code requirements. For more information about NFPA 285 compliant wall assemblies utilizing **Tyvek® WRBs** visit [building.dupont.com](http://building.dupont.com).

- Field testing the window / door and wall installation as a complete system is a recommended best practice.

- Use of trained installers is highly recommended.

**Sealants and Adhesives/Primers**

Review the manufacturers’ literature or label to confirm that the product(s) used have the chemical and adhesive properties necessary for use with **Tyvek® WRBs**, **DuPont Self-Adhered Flashing Products**, and **DuPont™ Tyvek® Fluid Applied Products**. Ensure the sealant materials meet the installation temperature requirements of the sealant manufacturer. Refer to *Chemical Compatibility of Representative Building Sealants and Adhesives/Primers* for more information about chemical compatibility.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, and DuPont™ FlexWrap™

STEP 1

A. Cut an apron made of 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 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 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 FlexWrap™ 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™ 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 the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Integral Flanged Window**

**STEP 2**
A. Apply Tower® Residential Sealant, or recommended sealant, on three sides (jambs and head) as shown above.

**STEP 3**
A. Install window according to manufacturer’s instructions.

B. Cut two pieces of DuPont™ Flashing Tape or DuPont™ StraightFlash™ 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.

C. Cut a piece of DuPont™ Flashing Tape or StraightFlash™ for head flashing long enough to extends 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™ Flashing Tape or StraightFlash™ at jambs must overlap the DuPont™ FlexWrap™ at the sill and adhere to the Tyvek® WRB apron below the sill.
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™ 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 Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2”, apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

NOTE: Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Integral Flanged Window**

**STEP 6**

A. Install the Tyvek® WRB according to the *DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories* that can be found at [building.dupont.com](http://building.dupont.com). 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 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**

A. Cut the Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont Self-Adhered Flashing Products or 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.

B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond Tyvek® WRB apron.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Integral Flanged Window**

**STEP 8**

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

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

C. Install Tyvek® Tape along jambs and head to seal Tyvek® WRB around window.

**ALTERNATE TAPE DETAIL**

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 7A is followed.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

Option 1 – When Using DuPont™ Tyvek® WRB at Sheathing/Framing Separating Adjacent Windows
This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, and DuPont™ FlexWrap™

STEP 1
Prepare Tyvek® WRB apron:

A. Cut a single apron made of 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 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 2
Preparation of framing/sheathing separating adjacent windows using Tyvek® WRB.

A. Cut a piece of Tyvek® WRB wide enough to cover the framing/sheathing between windows when wrapped into the window rough openings and 6” longer than the height (H) of the rough opening.

B. Cut corners to create side flaps that will fold into adjacent window rough openings with 6” of the Tyvek® WRB piece extending below the rough openings.

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 Tyvek® Tape.

D. Fold the two side flaps into rough opening, and secure. Cut off excess flaps if necessary.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 3

A. Cut 2 pieces of DuPont™ FlexWrap™ 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 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™ 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 FlexWrap™.

D. Fan out the FlexWrap™ at bottom corners onto face of wall and framing/sheathing between windows. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.

E. Repeat Steps B-D for second window. NOTE: The FlexWrap™ installed in the second window may overlap the FlexWrap™ installed in the first window at the vertical exposed sheathing/framing separating the windows.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 4
Apply Tower® Residential Sealant, or recommended sealant, on three sides (jambs and head) of each window as shown.

OPTIONAL: Apply Tower® 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 5

A. Install windows according to manufacturer’s instructions.

B. Cut four pieces of DuPont™ Flashing Tape or DuPont™ StraightFlash™ 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™ Flashing Tape or StraightFlash™ for the inside jamb flashing of one window may overlap the DuPont™ Flashing Tape or StraightFlash™ on the inside jamb of the other window.

   **NOTE:** If the inside jamb flanges of the two windows are sufficiently close, it is acceptable to use a single piece of DuPont™ Flashing Tape or StraightFlash™ to cover both inside jamb flanges. Select roll width wide enough to fully cover both jamb flanges.

   **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™ Flashing Tape or StraightFlash™ 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 Flashing membrane over the window must extend beyond the top edge of the DuPont Self-Adhered Flashing membrane previously installed between windows.

   **NOTE:** Ensure proper shingling. DuPont™ Flashing Tape or StraightFlash™ at jambs must overlap the DuPont™ FlexWrap™ 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 6

Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2”, apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

NOTE: Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 7

A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 8

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

B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 9

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

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

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

OPTIONAL: If installing a drip cap AFTER the Tyvek® WRB is installed and sealed around perimeter of windows, see Drip Cap Installation section and refer to Option 3.
**Option 2 – When Using DuPont Self-Adhered Flashing Product at Sheathing/Framing Separating Adjacent Windows**

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, and DuPont™ FlexWrap™

### STEP 1

Prepare Tyvek® WRB apron:

A. Cut a single apron made of 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 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

**STEP 2**

A. Cut 2 pieces of DuPont™ FlexWrap™ 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 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™ 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 FlexWrap™.

D. Fan out the FlexWrap™ at bottom corners onto face of wall and framing/sheathing between windows. Coverage of FlexWrap™ should be 2” to 3” onto the face of the wall.

E. Repeat Steps B-D for second window. **NOTE:** The FlexWrap™ installed in the second window may overlap the FlexWrap™ installed in the first window at the vertical exposed sheathing/framing separating the windows.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)**

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

**STEP 3**

A. Cut a piece of 9” wide DuPont™ Flashing Tape or DuPont™ StraightFlash™ the height (H) of the rough opening.

B. **NOTE:** For adjacent windows separated by a wider shared sheathing/framing, two overlapping pieces of DuPont™ Flashing Tape or StraightFlash™ may be required. When the flashing is folded into the opening per Step C. below, it should extend minimum 1” beyond where the window frame will be located.

C. Remove release paper and center the DuPont™ Flashing Tape or StraightFlash™ 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.

D. Fold the resulting DuPont™ Flashing Tape or StraightFlash™ flaps into the rough opening and adhere.
**Option 2 – When Using DuPont Self-Adhered Flashing Product at Sheathing/Framing Separating Adjacent Windows**

**OPTIONAL**: Apply Tower® 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 4**

Apply Tower® Residential Sealant, or recommended sealant, on three sides (jambs and head) of each window as shown.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)**

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

**STEP 5**

A. Install windows according to manufacturer’s instructions.

B. Cut four pieces of DuPont™ Flashing Tape or DuPont™ StraightFlash™ 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™ Flashing Tape or StraightFlash™ for the inside jamb flashing of one window may overlap the DuPont™ Flashing Tape or StraightFlash™ on the inside jamb of the other window.

**NOTE**: If the inside jamb flanges of the two windows are sufficiently close, it is acceptable to use a single piece of DuPont™ Flashing Tape or StraightFlash™ to cover both inside jamb flanges. Select roll width wide enough to fully cover both jamb flanges.

**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™ Flashing Tape or StraightFlash™ 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 Flashing membrane over the window must extend beyond the top edge of the DuPont Self-Adhered Flashing membrane previously installed between windows.  
**NOTE**: Ensure proper shingling. DuPont™ Flashing Tape or StraightFlash™ at jambs must overlap the DuPont™ FlexWrap™ 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.
**STEP 6**

Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2", apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

**NOTE**: Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 7

A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 8

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

B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Adjacent Rectangular Windows (with Less Than 6” of Sheathing/Framing Between Windows)

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

STEP 9

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

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

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

OPTIONAL: If installing a drip cap AFTER the Tyvek® WRB is installed and sealed around perimeter of windows, see Drip Cap Installation section and refer to Option 3.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**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 Tower® 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™ Flashing Tape or DuPont™ StraightFlash™. The DuPont Self-Adhered Flashing Products should be long enough to extend beyond the jamb flashing and adhere a minimum of 2” onto the wall.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB

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 Tyvek® WRB at top of window will need to extend slightly beyond window frame at jamb to accommodate the drip cap and be sealed onto the vertical leg with DuPont™ Tyvek® Tape.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**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™ Flashing Tape or DuPont™ StraightFlash™ 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™ Flashing Tape or StraightFlash™ extending past the top and sides of the drip cap.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Drip Cap Installation with Integral Flanged Windows**

Option 2 (continued)

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**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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
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 Tyvek® WRB is installed and sealed.

STEP 1
A. After 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™ Flashing Tape or DuPont™ StraightFlash™ extending past the top and sides of the drip cap and side edges of the window head flashing.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Door

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

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ FlexWrap™ and DuPont™ StraightFlash™

STEP 1

A. Cut an apron made of 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 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 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” FlexWrap™ at least 12” LONGER than the width of the sill (S).

B. 9” FlexWrap™ 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.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Door**

**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 DuPont™ FlexWrap™ 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 FlexWrap™ can be used to form a back dam.

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

**STEP 4**

A. Fan out the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Door

**STEP 5**
Apply Tower® Residential Sealant, or recommended sealant, on three sides (jambs and head) as shown above.

**OPTIONAL:** Apply Tower® Residential Sealant, or recommended sealant at sill with at least two (2) 2” gaps in the sealant bead for every 4’ of door to allow for drainage.

**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 Special Considerations.

A. Create the high pressure skirt by cutting a piece of Tyvek® WRB 1” wider than the width of door opening and approximately 10” in depth.

B. Cut a piece of DuPont™ Flashing Tape or DuPont™ StraightFlash™ to the same width as the skirt. Remove release paper and adhere 2” of the exposed butyl to the Tyvek® WRB. The skirt may be made with DuPont™ Flashing Tape, or StraightFlash™, or DuPont™ VersaFlange™.
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™ Flashing Tape or DuPont™ StraightFlash™ 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™ Flashing Tape or StraightFlash™ 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.

**NOTE**: Ensure proper shingling. DuPont™ Flashing Tape or StraightFlash™ at jambs must overlap the DuPont™ FlexWrap™ at the sill and adhere to the Tyvek® WRB apron below the sill.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB

Integral Flanged Door

**STEP 8**

A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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**

A. Cut the Tyvek® WRB along perimeter marking to expose door. Do not cut through the DuPont Self-Adhered Flashing Products or 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.

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

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STEP 10

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

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

C. Install Tyvek® Tape along jambs and head to seal Tyvek® WRB around door.

ALTERNATE TAPE DETAIL

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. NOTE: This option only applies when ALTERNATE STEP 8A is followed.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Door**

**STEP 11**

Final Step

A. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two (shown above) to form back dam.

B. Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the door opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2”, apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

Non-Flanged Windows and Doors (Using “Wrap the Cavity” Method)

For wood-framed buildings not exceeding ASTM E1677 wind loading pressures (10.8 psf, 65 mph equivalent structural load) and ASTM E331 water infiltration resistance of 6.24 psf, based on window design not exceeding DP 45, DuPont™ Flashing Tape can be used in lieu of DuPont™ StraightFlash™ for protecting the jambs of rough openings in the “wrap the cavity” method typically used in commercial construction.

**This method applies to the following products:** DuPont™ Flashing Tape, DuPont™ StraightFlash™, and DuPont™ FlexWrap™

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**STEP 1**

**A.** Cut an apron made of 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 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 Tyvek® WRB which will be installed after the window. Avoid placing DuPont™ Tyvek® Wrap Cap Fasteners, or recommended fasteners, where DuPont Self-Adhered Flashing Products will be installed.

**B.** Cut FlexWrap™ 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™ 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 the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.

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*NOTE: For installation methods using DuPont™ VersaFlange™, DuPont™ Flashing Tape can be used in the wrap the cavity method as an alternate method when the above performance criteria are met.

NOTE: When using DuPont™ Flashing Tape in lieu of StraightFlash™ for the wrap the cavity method, Tower® Residential Sealant cannot be used as the primary water seal, as it was not designed to be used for non-flanged units. Refer to Chemical Compatibility of Representative Building Sealants and Adhesives/Primers for more information.
STEP 2

A. Cut the jamb flashing the vertical length of the rough opening. Jamb flashing should be long enough to overlap the sill flashing by at least 2” and be overlapped by future head flashing by at least 2”.

B. Wrap DuPont™ Flashing Tape or DuPont™ StraightFlash™ into the rough opening at each jamb and onto wall face. The flashing should align with the interior edge of the jamb framing.

STEP 3

A. Adhere DuPont™ FlexWrap™ to the head using the same installation process as shown in Step 1 for the sill flashing. Make sure the FlexWrap™ is cut long enough to overlap the jamb flashing by at least 2”.

Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Windows and Doors (Using “Wrap the Cavity” Method)
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Windows and Doors (Using “Wrap the Cavity” Method)

STEP 4
A. Install window/door per manufacturer’s installation instructions. Apply an exterior perimeter seal using backer rod and sealant along the jambs and head of the window opening.

NOTE: Ensure window and sealant installation allows for drainage at the sill. If sealant is applied at the sill, as a best practice, ensure that there are at least two (2) 2” gaps in the sealant bead for every 4” of window to allow for drainage.

STEP 5
Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2”, apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

NOTE: Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
STEP 6
A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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
A. Cut the Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont Self-Adhered Flashing Products or Tyvek® WRB apron underneath.
B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond Tyvek® WRB apron.
ALTERNATE STEP A: If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.
STEP 8

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

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

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

ALTERNATE TAPE DETAIL

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 7A is followed.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Brick Mold Window

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, DuPont™ VersaFlange™, and DuPont™ FlexWrap™

**STEP 1**

A. Cut an apron made of 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 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 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 FlexWrap™ 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™ 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 the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB

Brick Mold Window

**STEP 2**

A. Prepare head flashing by cutting a piece of *DuPont™ VersaFlange™* 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 *VersaFlange™* 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 *VersaFlange™* 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Brick Mold Window

STEP 3

A. Prepare jamb flashing by cutting a piece of DuPont™ VersaFlange™ 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 VersaFlange™ 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.
**STEP 4**

A. Beginning at the junction of the jamb and the head, and away from the corner, cut the **DuPont™ VersaFlange™** 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. **OPTIONAL:** Apply Tower® Residential Sealant or recommended sealant along the sill as shown above.

B. Install window according to manufacturer’s installation instructions.

C. Remove the remaining release paper from the **VersaFlange™** jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.

D. Remove the release paper at the head and adhere the **VersaFlange™** to the exterior sheathing or framing members.

**NOTE:** Do not reverse shingle. **VersaFlange™** must overlap **DuPont™ FlexWrap™** and adhere to the substrate.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Brick Mold Window**

**STEP 6**

A. **OPTIONAL:** Cover exposed butyl with DuPont™ Flashing Tape, DuPont™ StraightFlash™ 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.

**STEP 7**

Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use **Great Stuff Pro™ Window & Door Polyurethane Foam Sealant**, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the FlexWrap™ around the sill. When using **Great Stuff Pro™ Window & Door Polyurethane Foam Sealant** in perimeter openings less than 1/2", apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB

Brick Mold Window

STEP 8
A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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 Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont Self-Adhered Flashing Products or 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.

B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond Tyvek® WRB apron.
**STEP 10**

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

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

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

**ALTERNATE TAPE DETAIL**

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. **NOTE**: This option only applies when ALTERNATE STEP 9A is followed.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Brick Mold Door

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

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, DuPont™ VersaFlange™ and DuPont™ FlexWrap™

STEP 1

A. Cut an apron made of 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 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Brick Mold Door

STEP 2
Preparation of sill flashing:

A. Cut 9” DuPont™ FlexWrap™ at least 12” LONGER than the width of the sill (S).

B. 9” FlexWrap™ 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB

Brick Mold Door

**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 DuPont™ FlexWrap™ 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 FlexWrap™ can be used to form a back dam.

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

**STEP 4**

A. Fan out the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Brick Mold Door

STEP 5

A. Prepare head flashing by cutting a piece of DuPont™ VersaFlange™ 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 VersaFlange™ 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 VersaFlange™ 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.
**STEP 6**

A. Prepare jamb flashing by cutting a piece of **DuPont™ VersaFlange™** 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 **VersaFlange™** 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.**

D. 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.

E. Remove the inner release paper and adhere the flashing to the back of the brick mold.

F. Repeat on opposite jamb.

**STEP 7**

A. Beginning at the junction of the jamb and head, and away from the corner, cut the **VersaFlange™** at a 45° angle. Repeat the procedure at the junction of the sill and jamb.

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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Brick Mold Door

**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 [Special Considerations](#).

A. Create the high pressure skirt by cutting a piece of Tyvek® WRB 1” wider than the width of the door opening and approximately 10” in height.

B. Cut a piece of DuPont™ VersaFlange™ to the same width of skirt. Remove release paper from one side of the VersaFlange™ and adhere to the Tyvek® WRB. The skirt may be made with VersaFlange™, DuPont™ Flashing Tape, or StraightFlash™.

C. Remove the release paper from the other side of the VersaFlange™ 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™ Flashing Tape, or StraightFlash™.

E. Tape the bottom of the optional skirt to allow for drainage and to minimize wind damage during construction.

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STEP 9
A. **OPTIONAL**: Apply Tower® Residential Sealant or recommended sealant along the sill as shown above.

B. Install door according to manufacturer’s installation instructions.

C. Remove the remaining release paper from the DuPont™ VersaFlange™ jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.

D. Remove the release paper at the head and adhere the VersaFlange™ to the exterior sheathing or framing members.

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

STEP 10
A. **OPTIONAL**: Cover exposed butyl with DuPont™ Flashing Tape, DuPont™ StraightFlash™, or DuPont™ Tyvek® Tape.

B. **OPTIONAL**: If installing a drip cap as part of the door installation BEFORE the Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Brick Mold Door**

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**STEP 11**

A. Install the **Tyvek® WRB** according to the [DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories](building.dupont.com) that can be found at building.dupont.com. 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 **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.

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**STEP 12**

A. Cut the **Tyvek® WRB** along perimeter marking to expose door. Do not cut through the **DuPont Self-Adhered Flashing Products** or **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 **Tyvek® WRB** below, the **Tyvek® WRB** can be cut along jambs and head only to overlap apron.

B. Create horizontal slits in the **Tyvek® WRB** at each lower corner of the perimeter cut that extend a minimum of 2” beyond **Tyvek® WRB** apron.
STEP 13

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

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

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

ALTERNATE TAPE DETAIL

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. NOTE: This option only applies when ALTERNATE STEP 12A is followed.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Brick Mold Door**

**STEP 14**

**Final Step**

A. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two (shown above) to form back dam.

B. Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the door opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2", apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

**NOTE:** Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Window

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, DuPont™ VersaFlange™, DuPont™ FlexWrap™, and DuPont™ FlexWrap™ EZ

**STEP 1**

A. Cut an apron made of 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 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 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 FlexWrap™ 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™ 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 the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.
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” x 3” pieces of DuPont™ FlexWrap™ or four 3” pieces of DuPont™ FlexWrap™ EZ.

C. Apply FlexWrap™ or FlexWrap™ EZ patches to back of flange corners before applying DuPont™ VersaFlange™.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Window

**STEP 3**

D. Prepare head flashing by cutting a piece of DuPont™ VersaFlange™ at least 12" LONGER than the head length.

E. Break the perforated release paper on one side of the head flashing by folding it back and forth upon itself.

F. Center the VersaFlange™ 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.

G. Remove the inner release paper and adhere the flashing to the back of the flange.

H. Beginning at the junction of the jamb and the head, and away from the corner, cut VersaFlange™ at a 45° angle.

I. Fold the newly created flaps down against the flange.

J. Fold remaining head flashing flaps down onto the jamb.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Window

STEP 4

A. Prepare jamb flashing by cutting a piece of DuPont™ VersaFlange™ 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 VersaFlange™ 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.
**STEP 5**

A. Beginning at the junction of the jamb and head, and away from the corner, cut the *DuPont™ VersaFlange™* 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. **OPTIONAL**: Apply Tower® Residential Sealant or recommended sealant along the sill as shown above.

B. Install window according to manufacturer’s installation instructions.

C. Remove the remaining release paper from the *VersaFlange™* jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.

D. Remove the release paper at the head and adhere the *VersaFlange™* to the exterior sheathing or framing members.

**NOTE:** Do not reverse shingle. *VersaFlange™* must overlap *DuPont™ FlexWrap™* and adhere to the substrate.
STEP 7

A. **OPTIONAL**: Cover exposed butyl with **DuPont™ Flashing Tape, DuPont™ StraightFlash™**, or **DuPont™ Tyvek® Tape**.

B. **OPTIONAL**: If installing a drip cap as part of the window installation BEFORE the **Tyvek® WRB** is installed and sealed, see **Drip Cap Installation** section and refer to **Option 2**.

STEP 8

Install **Tower® Residential Sealant** or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use **Great Stuff Pro™ Window & Door Polyurethane Foam Sealant**, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the **DuPont™ FlexWrap™** around the sill. When using **Great Stuff Pro™ Window & Door Polyurethane Foam Sealant** in perimeter openings less than 1/2”, apply using the plastic extension tip for the **Great Stuff Pro™ Dispensing Gun** during installation.

**NOTE**: Installations that specify a window/door design rating of DP45 or greater require extra precautions. See **Special Considerations** for performance requirements exceeding this design rating.
**STEP 9**

A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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 Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont Self-Adhered Flashing Products or 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.

B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond Tyvek® WRB apron.
STEP 11

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

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

C. Install Tyvek® Tape along jambs and head to seal Tyvek® WRB around window.

ALTERNATE TAPE DETAIL

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. NOTE: This option only applies when ALTERNATE STEP 10A is followed.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Door**

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

**This method applies to the following products:** DuPont™ Flashing Tape, DuPont™ StraightFlash™, DuPont™ VersaFlange™, DuPont™ FlexWrap™, and DuPont™ FlexWrap™ EZ

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**STEP 1**

Cut an apron made of 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 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 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 piece of 9” *DuPont™ FlexWrap™* at least 12” **LONGER** than the width of the sill (S).

B. 9” *FlexWrap™* 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Field Applied Flanged Door

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 DuPont™ FlexWrap™ 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 FlexWrap™ can be used to form a back dam.

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

STEP 4
A. Fan out the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”– 3” onto the face of the wall.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Door

**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™ or four 3” pieces of DuPont™ FlexWrap™ EZ.

C. Apply FlexWrap™ or FlexWrap™ EZ patches to back of flange corners before applying DuPont™ VersaFlange™.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Door

STEP 6

A. Prepare head flashing by cutting a piece of DuPont™ VersaFlange™ 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 VersaFlange™ 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 VersaFlange™ 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.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Door**

**STEP 7**

A. Prepare jamb flashing by cutting a piece of DuPont™ VersaFlange™ 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 VersaFlange™ 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.

D. 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.

E. Remove the inner release paper and adhere the flashing to the back of the flange.

F. Repeat on opposite jamb.

**STEP 8**

A. Beginning at the junction of the jamb and head, and away from the corner, cut the VersaFlange™ at a 45° angle. Repeat the procedure at the junction of the sill and jamb.

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.
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 Special Considerations.

A. Create the high pressure skirt by cutting a piece of Tyvek® WRB 1” wider than the width of door opening and approximately 10” in height.
B. Cut a piece of DuPont™ VersaFlange™ to the same width of skirt. Remove release paper from one side of the VersaFlange™ and adhere to Tyvek® WRB. The skirt may be made with the VersaFlange™, DuPont™ Flashing Tape, or DuPont™ StraightFlash™.
C. Remove the release paper from the other side of the VersaFlange™ 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™ Flashing Tape, or StraightFlash™.
E. Tape the bottom of the optional skirt to allow for drainage and to minimize wind damage during construction.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Field Applied Flanged Door**

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**STEP 10**

A. **OPTIONAL**: Apply Tower® Residential Sealant or recommended sealant along the sill as shown above.

B. Install door according to manufacturer’s installation instructions.

C. Remove the remaining release paper from the DuPont® VersaFlange™ jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.

D. Remove the release paper at the head and adhere the VersaFlange™ to the exterior sheathing or framing members.

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

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**STEP 11**

A. **OPTIONAL**: Cover exposed butyl with DuPont® Flashing Tape, DuPont® StraightFlash™, or DuPont™ Tyvek® Tape.

B. **OPTIONAL**: If installing a drip cap as part of the door installation BEFORE the Tyvek® WRB is installed and sealed, see Drip Cap Installation section and refer to Option 2.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB

Field Applied Flanged Door

STEP 12

A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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 Tyvek® WRB along perimeter marking to expose door. Do not cut through the DuPont Self-Adhered Flashing Products or 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.

B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond Tyvek® WRB apron.
**STEP 14**

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

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

C. Install Tyvek® Tape along jambs and head to seal Tyvek® WRB around door.

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

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**ALTERNATE TAPE DETAIL**

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 13A is followed.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Field Applied Flanged Door

STEP 15
Final Step

A. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two (shown above) to form back dam.

B. Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the door opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2", apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

NOTE: Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Non-Flanged Window

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, DuPont™ VersaFlange™, DuPont™ FlexWrap™, and DuPont™ FlexWrap™ EZ

STEP 1

A. Cut an apron made of 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 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 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 FlexWrap™ 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™ 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 the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”–3” onto the face of the wall.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Window**

**STEP 2**

A. Prepare head flashing by cutting a piece of DuPont™ VersaFlange™ at least 12” LONGER than the head length.

B. Remove the release paper from one side of the VersaFlange™.

C. Center the VersaFlange™ 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 VersaFlange™ 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Window

STEP 3
A. Prepare jamb flashing by cutting a piece of DuPont™ VersaFlange™ at least 6” LONGER than the jamb length.
B. Remove the release paper from one side of the VersaFlange™.
C. Position the VersaFlange™ 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Window

STEP 4

A. Beginning at the junction of the jambs and the head, and away from the corners, cut the DuPont™ VersaFlange™ 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™ or four 3” pieces of DuPont™ FlexWrap™ EZ and add patches to corners of the window.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Non-Flanged Window

STEP 5
A. **OPTIONAL**: Apply Tower® Residential Sealant or recommended sealant along the sill as shown above.
B. Install window according to manufacturer’s installation instructions.
C. Remove the remaining release paper from the DuPont® VersaFlange™ jamb flashing and press firmly to adhere the butyl adhesive to the exterior sheathing or framing members.
D. Remove the release paper at the head and adhere the VersaFlange™ to the exterior sheathing or framing members.

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

STEP 6
A. **OPTIONAL**: Cover exposed butyl with DuPont™ Flashing Tape, DuPont™ StraightFlash™, or DuPont™ Tyvek® Tape.
B. **OPTIONAL**: If installing a drip cap as part of the window installation BEFORE the Tyvek® WRB is installed and sealed, see Drip Cap Installation section and refer to Option 2.
STEP 7
Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2", apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

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

STEP 8
A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 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.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Non-Flanged Window**

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**STEP 9**

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

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

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**ALTERNATE STEP A**

If apron extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Non-Flanged Window

**STEP 10**

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

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

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

**ALTERNATE TAPE DETAIL**

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 9A is followed.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Door**

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

*This method applies to the following products: DuPont™ Flashing Tape, DuPont™ StraightFlash™, DuPont™ VersaFlange™, DuPont™ FlexWrap™, and DuPont™ FlexWrap™ EZ*

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**STEP 1**

A. Cut an apron made of 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 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Door

STEP 2
Preparation of sill flashing:
A. Cut 9” DuPont™ FlexWrap™ at least 12” LONGER than the width of the sill (S).
B. 9” FlexWrap™ 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Non-Flanged Door

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 DuPont™ FlexWrap™ 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 FlexWrap™ can be used to form a back dam.

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

STEP 4
A. Fan out the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”–3” onto the face of the wall.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Non-Flanged Door

STEP 5
A. Prepare head flashing by cutting a piece of DuPont™ VersaFlange™ at least 12” LONGER than the head length.
B. Remove the release paper from one side of the VersaFlange™.
C. Center the VersaFlange™ along the length of the door and position so that it contacts the door frame.
D. Beginning at the junction of the jamb and head and away from the corners, cut the VersaFlange™ at a 45° angle.
E. Fold the newly created flashing flaps down parallel to the door frame.
F. Fold the remaining head flashing flaps down and adhere to the jamb frame.

STEP 6
A. Prepare jamb flashing by cutting a piece of VersaFlange™ at least 6” LONGER than the jamb length.
B. Remove the release paper from one side of the VersaFlange™.
C. Position so that the VersaFlange™ 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.
D. Repeat on opposite jamb.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Door

STEP 7

A. Beginning at the junction of the jamb and the head, and away from the corner, cut the DuPont™ VersaFlange™ 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” pieces of DuPont™ FlexWrap™ or two 3” pieces of DuPont™ FlexWrap™ EZ and add patches to corner of the door.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Door

**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 Special Considerations.

A. Create the high pressure skirt by cutting a piece of Tyvek® WRB 1” wider than the width of the door opening and approximately 10” in height.

B. Cut a piece of DuPont™ VersaFlange™ to the same width of skirt. Remove release paper from one side of the VersaFlange™ and adhere to the Tyvek® WRB. The skirt may be made with DuPont™ Flashing Tape, VersaFlange™, or DuPont™ StraightFlash™.

C. Remove the release paper from the other side of the VersaFlange™ 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™ Flashing Tape or StraightFlash™.

E. Tape the bottom of the optional skirt to allow for drainage and to minimize wind damage during construction.
STEP 9
A. **OPTIONAL**: Apply Tower® Residential Sealant or recommended sealant along the sill as shown above.
B. Install door according to manufacturer’s installation instructions.
C. Remove the remaining release paper from the DuPont® VersaFlange™ jamb flashing and press firmly to adhere the butyl adhesive to the Tyvek® WRB.
D. Remove the release paper at the head and adhere the VersaFlange™ to the exterior sheathing or framing members.

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

STEP 10
A. **OPTIONAL**: Cover exposed butyl with DuPont™ Flashing Tape, DuPont™ StraightFlash™, or DuPont® Tyvek® Tape.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Non-Flanged Door**

B. **OPTIONAL**: If installing a drip cap as part of the door installation BEFORE the Tyvek® WRB is installed and sealed, see *Drip Cap Installation* section and refer to Option 2.

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**STEP 11**

A. Install the Tyvek® WRB according to the *DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories* that can be found at building.dupont.com. 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 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.

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**STEP 12**

A. Cut the Tyvek® WRB along perimeter marking to expose door. Do not cut through the DuPont Self-Adhered Flashing Products or 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.

B. Create horizontal slits in the Tyvek® WRB at each lower corner of the perimeter cut that extend a minimum of 2” beyond Tyvek® WRB apron.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB

Non-Flanged Door

STEP 13

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

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

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

ALTERNATE TAPE DETAIL

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. NOTE: This option only applies when ALTERNATE STEP 12A is followed.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Non-Flanged Door

STEP 14
Final Step

D. When the interior flooring is ready to install, remove release paper and use Folding Option One or Two (shown above) to form back dam.

E. Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the door opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2", apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

NOTE: Installations that specify a window/door design rating of DP45 or greater require extra precautions. See Special Considerations for performance requirements exceeding this design rating.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods**

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

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ FlexWrap™ and DuPont™ StraightFlash™

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

**STEP 1**

A. Apply a continuous bead of Tower® Residential Sealant, or recommended sealant, around jambs and head, and 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 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 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 Tyvek® WRB. Avoid placing fasteners where DuPont Self-Adhered Flashing Products will be installed.

C. Cut opening as shown.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Integral Flanged Window – “Pre-Strip” Methods**

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

**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™ 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods

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

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

B. Install a minimum of 12" length of FlexWrap™ 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods

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

**OPTIONAL**: Apply Tower® 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**

A. Apply Tower® Residential Sealant, or recommended sealant, on three sides (jams and head) as shown above.

B. Install window according to manufacturer’s instructions.

C. Cut two pieces of DuPont™ Flashing Tape or DuPont™ StraightFlash™ 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™ Flashing Tape or StraightFlash™ 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™ Flashing Tape or StraightFlash™ must overlap DuPont™ FlexWrap™ and adhere to the piece of Tyvek® WRB.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods

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

STEP 8
Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use Great Stuff Pro® Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap® around the sill. When using Great Stuff Pro® Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2”, apply using the plastic extension tip for the Great Stuff Pro® Dispensing Gun during installation.

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

STEP 9
A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 Tyvek® WRB piece below sill of window.

B. Mark a perimeter on the 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.
 Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods

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

STEP 10

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

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

ALTERNATE STEP A: If piece of Tyvek® WRB extends far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap the piece of Tyvek® WRB underneath.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods

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

STEP 11
A. Bring the bottom portion of the piece of Tyvek® WRB underneath through the sill perimeter cut and horizontal slits so it laps over the top layer of Tyvek® WRB.
B. Working from bottom to top, install DuPont™ Tyvek® Tape to secure horizontal and vertical seams of the Tyvek® WRB piece below sill.
C. Install Tyvek® Tape along jambs and head to seal Tyvek® WRB around window.

OPTIONAL: If installing a drip cap AFTER the Tyvek® WRB is installed and sealed, see Drip Cap Installation section and refer to Option 3.

ALTERNATE TAPE DETAIL
Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. NOTE: This option only applies when ALTERNATE STEP 10A is followed.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Integral Flanged Window – “Pre-Strip” Methods**

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

This method applies to the following products: DuPont™ Flashing Tape, DuPont™ FlexWrap™, and DuPont™ StraightFlash™

**Method 2 – Rough Opening Treatment Using Strips of Tyvek® WRB**

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**STEP 1**

A. Cut an apron made of 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 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 Tyvek® WRB. Avoid placing fasteners where DuPont Self-Adhered Flashing Products will be installed.

B. Install continuous bead of Tower® Residential Sealant, or recommended sealant, around jambs and head. Angle the sealant to create a 4” peak.

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**STEP 2**

A. Cut 2 pieces of 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 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 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 Tyvek® WRB into the sealant and wrap in and around the studs at the head. Staple to inside framing to secure.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods

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

STEP 3
A. Seal the vertical and horizontal Tyvek® WRB seams using DuPont™ Tyvek® Tape.

STEP 4
A. Cut DuPont™ FlexWrap™ 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.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods**

**Method 2 – Rough Opening Treatment Using Strips of Tyvek® WRB**

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

B. Install a minimum of 12” length of FlexWrap™ at each corner of the head to extend a minimum of 6” down the jamb and at least 6” on the head as shown.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods**

*Method 2 – Rough Opening Treatment Using Strips of Tyvek® WRB*

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**STEP 7**

A. Apply Tower® Residential Sealant, or recommended sealant, on three sides (jambs and head) as shown above.

B. Install window according to manufacturer’s instructions.

C. Cut two pieces of DuPont™ Flashing Tape or DuPont™ StraightFlash™ 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™ Flashing Tape or StraightFlash™ 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 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™ Flashing Tape or StraightFlash™ must overlap DuPont™ FlexWrap™ and adhere to the pieces of Tyvek® WRB.

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**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods**

**Method 2 – Rough Opening Treatment Using Strips of Tyvek® WRB**

**STEP 8**
Install Tower® Residential Sealant or recommended sealant (and backer rod as necessary) around the window opening at the interior. It is also acceptable to use Great Stuff Pro™ Window & Door Polyurethane Foam Sealant, or recommended foam. When using Tower® Residential Sealant, tool sealant bead flat to allow the natural curing process to create a concave shape. Be sure that the sealant penetrates the grooves of the DuPont™ FlexWrap™ around the sill. When using Great Stuff Pro™ Window & Door Polyurethane Foam Sealant in perimeter openings less than 1/2", apply using the plastic extension tip for the Great Stuff Pro™ Dispensing Gun during installation.

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

**STEP 9**
A. Install the Tyvek® WRB according to the DuPont™ Tyvek® Water-Resistive and Air Barrier (WRB) Installation Guidelines for Buildings Less Than 5 Stories and Low-Rise Multi-Family Residential Buildings Less Than 6 Stories that can be found at building.dupont.com. 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 Tyvek® WRB piece below sill of window.

B. Mark a perimeter on the 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Integral Flanged Window – “Pre-Strip” Methods

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

STEP 10

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

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

ALTERNATE STEP A: If pieces of Tyvek® WRB extend far enough below the sill rough opening to overlap the sill plate, base of wall flashing, or the Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap pieces of Tyvek® WRB underneath.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Integral Flanged Window – “Pre-Strip” Methods

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

STEP 11

A. Bring the bottom portion of the pieces of Tyvek® WRB through the sill perimeter cut and horizontal slits to lap over the top layer of Tyvek® WRB.

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

C. Install Tyvek® Tape along jambs and head to seal Tyvek® WRB around window.

OPTIONAL: If installing a drip cap AFTER the Tyvek® WRB is installed and sealed, see Drip Cap Installation section and refer to Option 3.

ALTERNATE TAPE DETAIL

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. NOTE: This option only applies when ALTERNATE STEP 10A is followed.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Hybrid Condition – DuPont™ Tyvek® WRB Terminated with DuPont™ StraightFlash™ and/or DuPont™ FlexWrap™ and Integrated with DuPont™ Tyvek® Fluid Applied Products**

Complex wall and window flashing conditions may require the use of Tyvek® Fluid Applied Products for part of a wall or window and/or door flashing. While there are many variations of this condition, it is important to properly integrate the Tyvek® WRB with the Tyvek® Fluid Applied Products using StraightFlash™ and FlexWrap™. The following example shows a recessed wall plane treated with DuPont™ Tyvek® Fluid Applied WB™ with a window flashed with Tyvek® Fluid Applied Products and integrated with the Tyvek® WRB on the face of the wall. Refer to the DuPont™ Tyvek® Fluid Applied Flashing Installation Guidelines for more information.

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**STEP 1**

A. Cut an apron made of Tyvek® WRB for attachment under sill of recess wall plane. Apron should extend at least 10” beyond sides of recessed wall plane 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 of the recessed wall plane to overlap the sill plate, base of wall flashing, or the 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 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.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB Hybrid Condition – DuPont™ Tyvek™ WRB Terminated with DuPont™ StraightFlash™ and/or DuPont™ FlexWrap™ and Integrated with DuPont™ Tyvek® Fluid Applied Products

STEP 2
A. Cut the FlexWrap™ at least 12” LONGER than width of recessed wall plane (W).
B. Remove wide piece of release paper and adhere on horizontal ledge by aligning the inside edge of the narrow release paper with the face of the wall to ensure 2”–3” of the FlexWrap™ will be adhered to the face of the wall with a minimum of 6” up each side.
C. Remove narrow piece of release paper. Fan out the FlexWrap™ at corners and adhere onto face of wall. Continue adhering onto face of wall along sill. Coverage of FlexWrap™ should be 2”–3” onto the face of the wall.*

STEP 3
A. Cut (2) pieces of StraightFlash™ the height of the recessed wall plane (H) or long enough to overlap the bottom of recessed wall flashing by at least 2” and be overlapped by future top of recess wall flashing by at least 2”.
B. Install the StraightFlash™ pieces along each side of recessed wall, ensuring the StraightFlash™ extends 2” onto the face of the wall and 2” into the recess.

*A 3-piece transition flashing method can also be used with StraightFlash™ in combination with FlexWrap™ corners. The StraightFlash™ in installed the width of the bottom or top of recessed wall plane prior to placing the FlexWrap™ corners. The FlexWrap™ corners should be at least 12” long allowing for 6” overlap onto the StraightFlash™ at bottom, top, and sides of recessed wall plane.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Hybrid Condition – DuPont™ Tyvek® WRB Terminated with DuPont™ StraightFlash™ and/or DuPont™ FlexWrap™ and Integrated with DuPont™ Tyvek® Fluid Applied Products**

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**STEP 4**

A. Install **FlexWrap™** at top of recess wall using method shown in Step 2.*

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**STEP 5**

A. Install **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** and/or **DuPont Self-Adhered Flashing Products** and window per the **DuPont™ Tyvek® Fluid Applied Flashing Installation Guidelines**.

**NOTE:** Window/flashing installation sequence will vary by project and window type. All installations must allow for drainage at window sill.

B. Install **DuPont™ Tyvek® Fluid Applied WB+™** per the **DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines**. Overlap the **Tyvek® Fluid Applied WB+™** onto the **StraightFlash™** and **FlexWrap™** at recess wall transition by a minimum of 2”.

**NOTE:** Do not install **Tyvek® Fluid Applied Products** onto the face of the wall to ensure the **Tyvek® WRB** installed in subsequent steps can be sealed to the **DuPont Self-Adhered Flashing Products** around the perimeter of the recessed wall plane.
Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB
Hybrid Condition – DuPont™ Tyvek™ WRB Terminated with DuPont™ StraightFlash™ and/or DuPont™ FlexWrap™ and Integrated with DuPont™ Tyvek® Fluid Applied Products

STEP 6

A. Cut the Tyvek® WRB along perimeter marking to expose window. Do not cut through the DuPont Self-Adhered Flashing Products or 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 Tyvek® WRB below, the Tyvek® WRB can be cut along jambs and head only to overlap apron.

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

STEP 7

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

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

C. Install Tyvek® Tape or DuPont Self-Adhered Flashing Product along jambs and head to seal Tyvek® WRB around window.
**Installation Methods for DuPont Self-Adhered Flashing Products Installed BEFORE the DuPont™ Tyvek® WRB**

**Hybrid Condition – DuPont™ Tyvek® WRB Terminated with DuPont™ StraightFlash™ and/or DuPont™ FlexWrap™ and Integrated with DuPont™ Tyvek® Fluid Applied Products**

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**ALTERNATE TAPE DETAIL**

Place a continuous bead of Tower® Residential Sealant, or recommended sealant, around the jamb and head flashing under the Tyvek® WRB. Press the Tyvek® WRB securely into the sealant. **NOTE:** This option only applies when ALTERNATE STEP 6A is followed.
Product Composition and UV Stability
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® Fluid Applied WB+™ and DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+™ are to be covered within 9 months (270 days) of installation.

Design Considerations
When installed in conjunction with other building materials, Tyvek® WRBs, DuPont Self-Adhered Flashing Products, and Tyvek® Fluid Applied Products must be properly shingled with these materials such that water is diverted to the exterior of the wall system. Tyvek® WRBs and Tyvek® Fluid Applied WB+™ are secondary weather barriers. The outer facade is the primary barrier. Follow facade manufacturer’s installation and maintenance requirements for all facade systems in order to maintain water holdout properties and ensure performance of Tyvek® WRBs and Tyvek® Fluid Applied WB+™. Do not install on a wall that does not feature a continuous path for moisture drainage. Any standing water must be allowed to drain off the membrane. Follow facade manufacturer’s installation and maintenance requirements for all facade systems in order to maintain water holdout properties and ensure performance of Tyvek® WRBs and Tyvek® Fluid Applied WB+™. Use of additives, coatings or cleansers on or in the facade system may impact the performance of Tyvek® WRBs and Tyvek® Fluid Applied WB+™. Durotect is combustible and should be protected from flames and other high heat sources. 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 1-833-338-7668.

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 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.

Depending on job site conditions, it is possible that stains may appear, but will not alter performance of the Tyvek® Fluid Applied Product.

Safety and Handling

Warning
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 141, 14.2, and 14.5 for ladders made of wood, aluminum, and fiberglass, respectively. DuPont™ Tyvek® is combustible and should be protected from flames and other high heat sources. DuPont™ Tyvek® 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 1-833-338-7668.

Tyvek® Fluid Applied Products may cause irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation of respiratory tract. This product is a mixture. Health Hazard information is based on its components. Refer to Safety Data Sheet (SDS) for further information.

Tyvek® Fluid Applied 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 1-833-338-7668.

Tyvek® Fluid Applied Products may cause irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause irritation of respiratory tract. This product is a mixture. Health Hazard information is based on its components. Refer to Safety Data Sheet (SDS) for further information.

Tower® 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.

KEEP OUT OF REACH OF CHILDREN.

Children can fall in to bucket and drown. Keep children away from bucket with even a small amount of liquid.

Use only as directed. Avoid inhalation of vapor aerosol.
Caution
Obtain special instructions for Tyvek® Fluid Applied Products before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fumes/gas/mist/vapors/spray. Vapor and aerosols are harmful if using spray application. Use in a well-ventilated area. Use NIOSH approved respirator. NIOSH-approved particulate filtering full-face respirator with a P95 particulate filter or half-mask respirator with a P95 particulate filter and splash impact goggles when spraying. NIOSH-approved N95 disposable safety mask with splash impact goggles for manual application such as troweling or rolling, and for clean-up. If vapors are inhaled, immediately move from exposure to fresh air and contact a physician. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant. Avoid contact with eyes and skin.

When cured, Great Stuff Pro™ Window & Door Polyurethane Foam Sealant is combustible and will burn if exposed to open flame or sparks from high-energy sources. Do not expose to temperatures above 240°F (116°C). For more information, consult (Material) Safety Data Sheet ((M)SDS), call DuPont at 1-866-583-2583. When air sealing buildings, ensure that combustion appliances, such as furnaces, water heaters, wood burning stoves, gas stoves and gas dryers are properly vented to the outside. See website: https://www.nrel.gov/docs/fy14osti/61326.pdf

In Canada visit: https://nrc-publications.canada.ca/eng/view/ft/?id=96acba7c-af4d-4ea1-94b0-1f8f3500c582.

Great Stuff Pro™ polyurethane foam sealant and adhesive products contain isocyanate and a flammable blowing agent. Read all instructions and (Material) Safety Data Sheet ((M)SDS), carefully before use. Eliminate all sources of ignition before use. Cover all skin. Wear long sleeves, gloves, and safety glasses or goggles. Not for use in aviation, or food/beverage contact, or as structural support in marine applications. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure. Not to be used for filling closed cavities or voids such as behind walls and under tub surrounds; this improper use of the product could result in the accumulation of flammable vapors and/or uncured material. Failure to follow the warnings and instructions provided with the product, and/or all applicable rules and regulations, can result in injury or death. Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplied by DuPont can give assurance that mold will not develop in any specific system. Read all instructions and (Material) Safety Data Sheet ((M)SDS) carefully before use.

For more information, visit greatstuffpro.com or building.dupont.com

Hazard Statement
Tyvek® Fluid Applied Products may cause an allergic skin reaction. May cause serious eye damage. May cause genetic defects. May damage fertility or the unborn child. As it relates to California Prop 65, Tyvek® Fluid Applied Products can expose you to substances including Crystalline silica, which is /are known to the State of California to cause cancer. For more information, visit p65Warnings.ca.gov.

For More Information
Visit the Quick Links section of our website (https://www.dupont.com/building/resources.html) where you’ll find links to essential documents and resources to help you get the job done right:
• Installation Guidelines
• Safety Data Sheets (SDS)
• CAD Drawings
• DuPont Performance Building Solutions Document Library

For complete warranty information please call 1-833-338-7668 or visit us at building.dupont.com.
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