DuPont Performance Building Solutions

DuPont™ Tyvek® Fluid Applied Flashing Installations Guidelines

For Buildings Greater than 4 Stories and High-Performance Installations of Any Height

March 2020

Table of Contents

Applicable Products

DuPont™ Fluid Applied Products

Product	Quantity	Coverage
DuPont™ Tyvek® Fluid Applied WB+™	5 gal, 50 gal	50-65 sf/gal*
DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+	3.5 gal	50-60 sf/gal*
DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ (for gypsum sheathing seam treatment)	28 oz	2.5–3.5 lf/oz
DuPont™ Sealant for Tyvek® Fluid Applied System	28 oz	N/A

*Estimated surface coverage at 25 mils thick.

DuPont Self-Adhered Flashing Products

Product	Width
DuPont™ FlexWrap™ (Formerly FlexWrap™ NF)	6 in 9 in
DuPont™ FlexWrap™ EZ	2.75 in
DuPont™ StraightFlash™	4 in 9 in

Required Materials Based on Project Requirements, Details, and Specifications

Product
DuPont™ Adhesive/Primer

Safety, Handling, and Storage

WARNING: For Professional Use Only. Read and follow the entire Safety, Handling, and Storage section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of **DuPont™ Tyvek® Fluid Applied Products**. Follow all applicable federal, state, local and employer regulations.

Precautionary Statements

Use only as directed. Avoid inhalation of vapor aerosol. Avoid breathing dust/fumes/gas/mist/vapors/spray. 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. Vapor and aerosols are harmful if using spray application. Use in a well-ventilated area. Use NIOSH approved respirator. If vapors are inhaled, immediately move from exposure to fresh air and contact a physician. Avoid contact with eyes and skin. See Personal Protective Equipment section below.

Hazard Statements

May cause an allergic skin reaction. May cause serious eye damage. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. 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. **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.

Personal Protective Equipment (PPE)

Personal protective equipment (PPE) used during the handling of **Tyvek® Fluid Applied Products** must at a minimum include:

- Protective clothing or coveralls, including long sleeves and head cover (no skin should be exposed), for example, Tyvek® non-woven laminate paint protective coveralls with hood
- Chemical-resistant nitrile, butyl rubber, neoprene or PVC gloves
- Chemical splash impact safety goggles or equivalent, unless using a full-face respirator
- Protective work safety shoes
- Hearing protection such as ear plugs when spraying
- 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.

Clean Up and Purge

Use appropriate personal protective equipment during clean-up (see Personal Protective Equipment section above). Uncured Tyvek® Fluid Applied products can be cleaned from hands, tools, and equipment by using a citrus based cleaner or mineral spirits. Cured Tyvek® Fluid Applied products can be removed by soaking in citrus based cleaners or using a gel-based paint stripper.

Clean sprayer components and tools with 100% mineral spirits, naphtha, citrus-based cleaners, or gel-based paint stripper. Material should not be left in the pump, hose, gun, or roller. After applying, flush system with a citrus-based cleaner, or 100% mineral spirits until the system is clean. Avoid using water for cleanup. Low pressure portions of the system should be taken apart and cleaned by hand. Before the next usage, flush any remaining solvent out of the system before applying **DuPont™ Tyvek® Fluid Applied WB+™** to the wall substrate. Be sure that system is fully clean of any residual Tyvek® Fluid Applied product before introducing a different product. If

system is not fully clean, ingredients can react and cause products to cure in the system. Spray tips can be cleaned in 100% mineral spirits or naphtha using airbrush cleaning tools.

Shelf Life and Storage

The shelf life is 12 months from the date of manufacture for an unopened container. Reference the "Use By" date printed on the container. Store opened containers with a plastic protective liner to slow cure rate. Before reusing a previously opened container, remove any cured material that may have formed (skinned over) at the top.

DuPont™ Tyvek® Fluid Applied Products should be stored in a clean, dry environment, 50°- 80°F (10° - 27°C). If stored at temperatures below 65°F (18°C), the product must be warmed warmed to a minimum of 65°F (18°C) using standard industry methods prior to spraying for proper atomization at the spray tip. Continuous storage at high temperatures will reduce the shelf life of **Tyvek® Fluid Applied Products**. **Tyvek® Fluid Applied Products** temporarily stored outside should be stored under cover.

Disposal

Dispose of any residual **Tyvek® Fluid Applied Product**, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.

Supplemental Information

Avoid spraying **Tyvek® Fluid Applied WB+™** in very windy conditions. Installing professional should consider if structure should be tented to protect the surrounding area from overspray. Avoid spraying in very dusty conditions.

Special Considerations

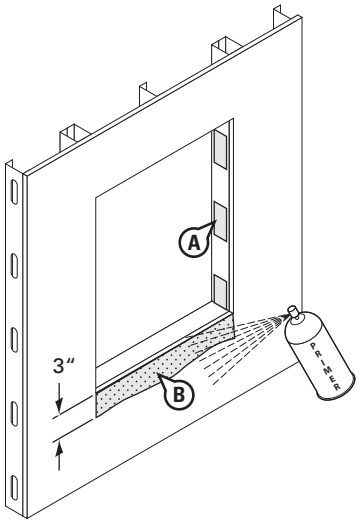
Note: **Tyvek® Fluid Applied Products** should only be used for wall systems that include a continuous path for drainage allowing moisture that penetrates the facade to exit to the exterior. The drainage path should be continuous throughout the wall assembly, including but not limited to areas such as 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. Proper shingling, sealing, and integration of the **Tyvek® Fluid Applied Products** with kick-out flashings, through wall membranes, window and door flashing, and other wall transitions is essential for moisture drainage to the exterior.

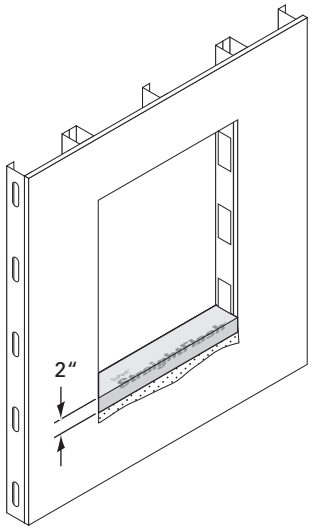
1. Suitable substrates include concrete masonry unit (CMU), concrete (48 hrs. for green concrete), exterior gypsum, OSB, plywood, wood, treated wood and metal.
2. **Tyvek® Fluid Applied Products** should be installed on clean, dry surfaces. Wipe surfaces to remove moisture, dirt, grease and other debris that could interfere with adhesion.
3. **Tyvek® Fluid Applied Products** are designed for above grade application and should not be installed below grade.
4. When **Tyvek® Fluid Applied WB+™** is applied with a sprayer, the outer edges of all interfaces with **DuPont Self-Adhered Flashing Products** should be treated with **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** and tapered to the wall substrate to ensure smooth transitions free of pinholes and voids.
5. **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.
6. When applying **Tyvek® Fluid Applied Products** over wood-based substrates such as OSB, plywood, lumber, and treated lumber, the installing professional should ensure the moisture content, measured with a wood moisture meter in the core of the substrate, is below 20%. Do not cover wood based substrates with Tyvek® Fluid Applied products if moisture content is 20% or above.
7. **Tyvek® Fluid Applied Flashing and Joint Compound+** can be troweled or brushed to the required thickness in any application outlined in the guide.
8. **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).
9. For best results, the temperature of the **Tyvek® Fluid Applied Products** at the spray tip of standard spray equipment should be 65°F (18°C) or higher. This may require employing measures to keep the pump and spray equipment at temperatures above 65°F (18°C) and/or using an insulated hose. For more information, refer to the *DuPont™ Tyvek® Commercial Solutions Technical Bulletin*, Additional Considerations When Spraying **Tyvek® Fluid Applied WB+™.**
10. The maximum service temperature is 180°F (82°C).
11. **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*.
12. **Tyvek® Fluid Applied WB+™** may be applied over, and integrated with **Tyvek® Fluid Applied Flashing** once a tack-free skin has formed. Skin time is 1-2 hours at 70°F (20°C) 50% RH.
13. 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).
14. DuPont requires that **Tyvek® Fluid Applied Products** be covered within 9 months of installation.
15. **DuPont Self-Adhered Flashing Products** are easier to install when air and surface temperatures are above 25°F (–4°C).
16. **DuPont™ Adhesive/Primer**, or recommended primer, is required when applying **DuPont Self-Adhered Flashing Products** on concrete, masonry, and fiber faced exterior gypsum board substrates. The use of **DuPont™ Adhesive/Primer**, or recommended primer, is a recommended best practice for application of **DuPont Self-Adhered Flashing Products** onto wood substrates.
17. Priming is only required for **Tyvek® Fluid Applied Products** when applied to cut edges of exterior gypsum sheathing.
18. Uncured **Tyvek® Fluid Applied Products** must not come in contact with **DuPont™ Tyvek® Mechanically-Fastened Air and Water Barriers** due to potential impact on performance properties.
19. Stirring is not necessary. If separation occurs, gently fold material until mixture is uniform. Avoid any type of mixing that will introduce air into the product.
20. Asphalt based adhesives are not recommended for use with **Tyvek® Fluid Applied Products**.
21. Minor discoloration of the membrane at wood knots, sap, or sheathing inks may occur after curing.
22. When **Tyvek® Fluid Applied Products** are used as the primary air and water barrier, **Tyvek® Mechanically-Fastened Air and Water Barrier Products** may be installed as an "intervening layer" over **Tyvek® Fluid Applied Products** after 24 hours of curing at 70°F (20°C) and 50% RH. For additional information about the use of "intervening layers", see the Stucco section under Facade/Exterior Considerations in the *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines*.
23. For **DuPont Self-Adhered Flashing Products**, remove all wrinkles and bubbles that may allow for water intrusion by smoothing surface and repositioning as necessary during installation. 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.

For additional guidance, please call 1-800-448-9835, visit our website at building.dupont.com, or review the DuPont™ Tyvek® Fluid Applied WB+™ System Frequently Asked Questions.

Steel Stud with Integral Flanged Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier





STEP 1

Clean substrate of any material that could negatively affect adhesion as well as any sharp protrusions.

A. Cover holes in studs with patches of **DuPont™ StraightFlash™**.

B. When using **StraightFlash™** at the sill of the window, apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3" onto the exterior face of the wall, and onto the inside of the sill for concrete surfaces.

Note: If applying to gypsum sheathing, the cut edge of the gypsum should be primed using **DuPont™ Adhesive/Primer** or recommended primer on all four sides prior to application of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**.

STEP 2

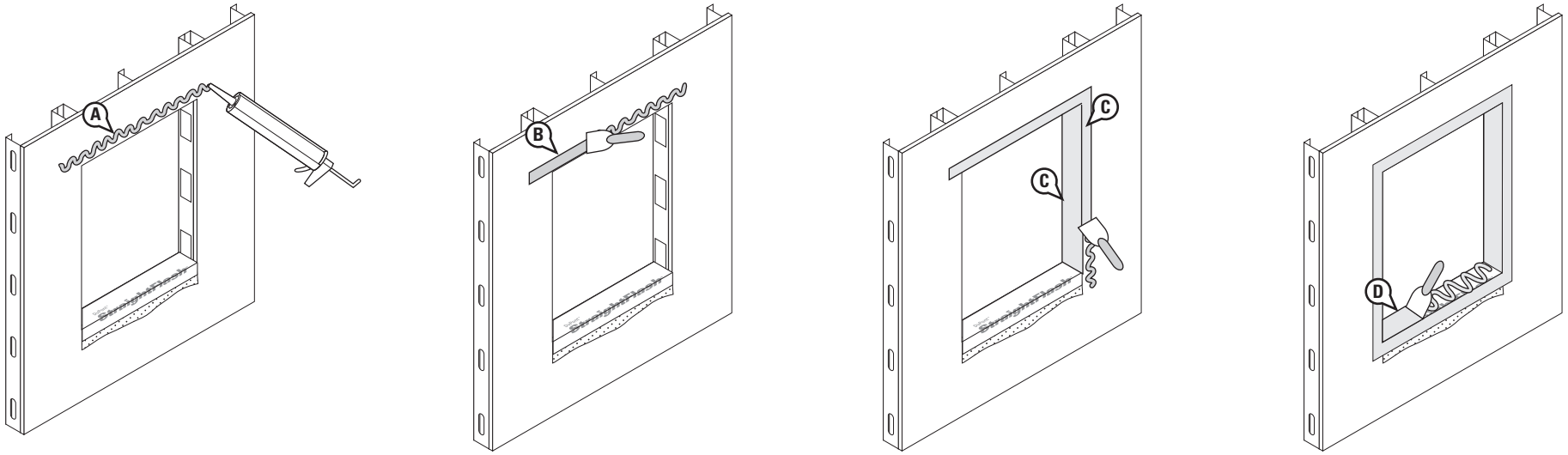
Prepare the sill flashing by cutting a piece of **StraightFlash™** the width of the sill.

To install the sill flashing, remove release paper and position **StraightFlash™** so that 2" will extend onto the face of the wall below the sill. Wrap flashing into the rough opening at sill and onto the face of the wall. 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**.

Note: **StraightFlash™** is not required in cases where no fasteners are being installed through the window sill.

Steel Stud with Integral Flanged Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier



STEP 3

A. Starting at the window head, apply a bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** onto the inside surface of the rough opening and onto the face of the wall.

B. Use a trowel or brush to smooth out flashing to a thickness of approximately 25 mils. The flashing should cover the inside of the rough opening and extend a minimum of 2" onto the face of the wall.

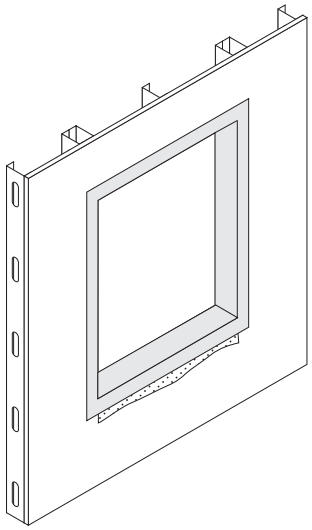
C. Continue the application process outlined above for the jambs.

Note: For the Wood Buck Bump Out with Non-Flanged Window, apply **Tyvek® Fluid Applied Flashing and Joint Compound+** onto the outside edges of the wood buck and onto the wall substrate by a minimum of 2".

D. The **Tyvek® Fluid Applied Flashing and Joint Compound+** should be applied on top of the **DuPont™ StraightFlash™** on the sill and at least 2" min on the face of the wall substrate. Be sure all inside corners are filled and integrated with the **StraightFlash™**. A corner trowel may be used to smooth outside corners.

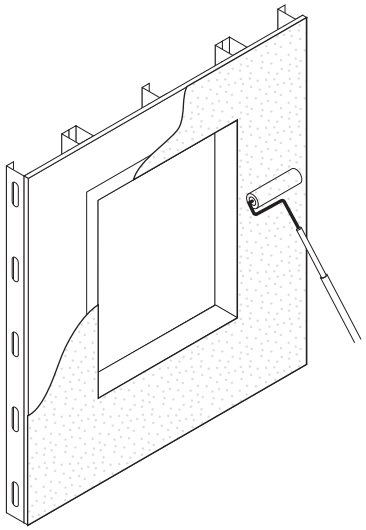
Steel Stud with Integral Flanged Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier



STEP 4

Upon completion, inspect surface, including all corners to ensure that **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** is continuous and **free of any voids or pinholes**. **DuPont™ Tyvek® Fluid Applied WB+™** may be applied over and integrated with **Tyvek® Fluid Applied Flashing and Joint Compound+** once a tack-free skin has formed. Skin time is 1-2 hrs at 70°F (20°C), 50% RH.

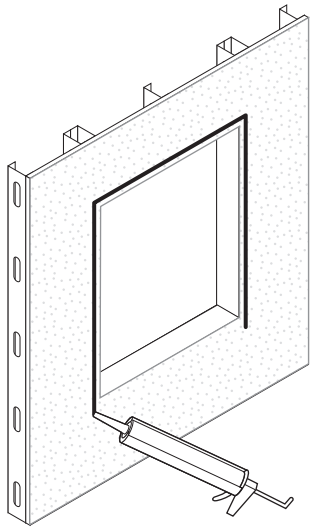


STEP 5

Install **Tyvek® Fluid Applied WB+™** up to the edge of the rough opening, overlapping the **Tyvek® Fluid Applied Flashing and Joint Compound+**.

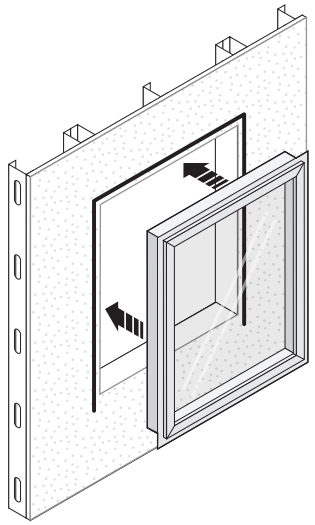
Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **Tyvek® Fluid Applied Flashing and Joint Compound+** or **Tyvek® Fluid Applied WB+™** tapered to the wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Exterior insulation and/or cladding may be installed once the membrane has cured sufficiently to resist damage during installation. Skin time is 1-2 hours, and 25 mil is workable in 24 hours at 70°F (20°C), 50% RH.



STEP 6

After **Tyvek® Fluid Applied WB+™** has cured, apply a continuous bead of **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** on the wall around the head and jambs of the window rough opening or onto the back side of the window flanges at the head and jambs. Do not apply sealant across bottom sill flange.

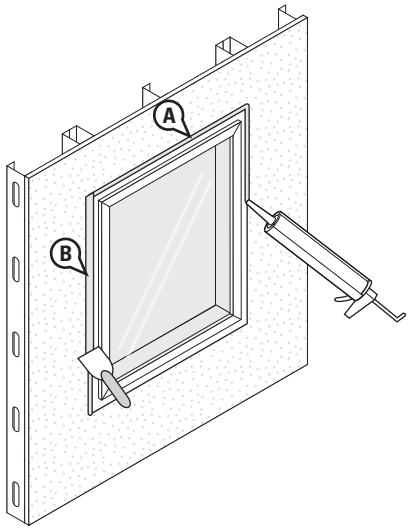


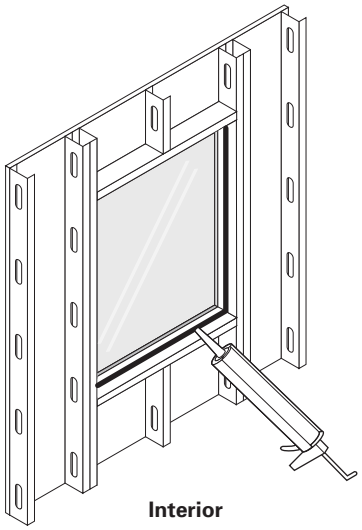
STEP 7

Install window per manufacturer's installation instructions.

Steel Stud with Integral Flanged Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier





Interior

STEP 8

A. Apply a continuous bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** along the interface between the window flange and the wall on the jambs and head of the window.

B. Use a trowel or brush to smooth **Tyvek® Fluid Applied Flashing and Joint Compound+** to approximately 2" wide x 60 mils thick. The **Tyvek® Fluid Applied Flashing and Joint Compound+** should extend onto the window flange a minimum of a 1/2" past the flange fasteners (approximately 1" onto either side of the flange / wall interface). Upon completion, inspect surface to ensure that **Tyvek® Fluid Applied Flashing and Joint Compound+** application is continuous and **free of any voids or pinholes**.

STEP 9

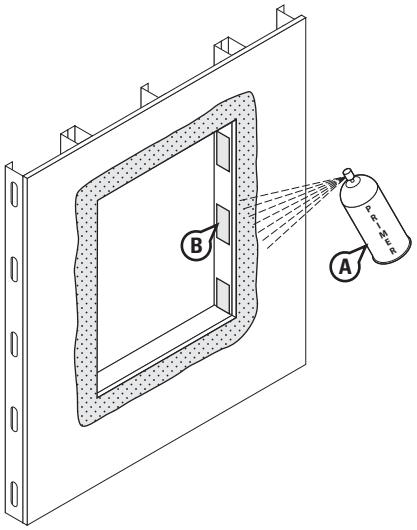
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** along all four sides of the window.

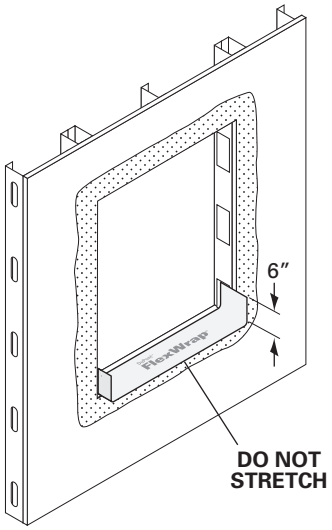
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

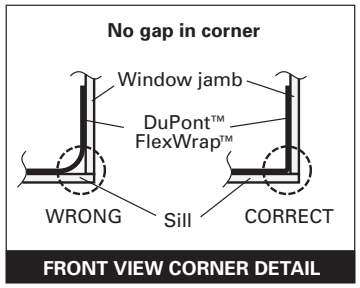
Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

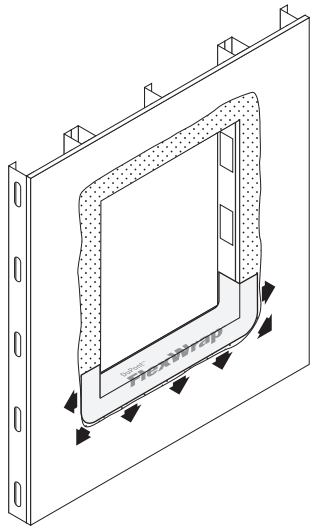
Steel Stud with Integral Flanged Window

Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier









STEP 1

Clean substrate of any material that could negatively affect adhesion, as well as any sharp protrusions.

A. Apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3″ onto the exterior face of the wall or bump out framing surrounding the rough opening, and onto the inside perimeter of the rough opening for concrete surfaces.

B. Cover holes in studs with patches of **StraightFlash™**.

STEP 2

Prepare the sill flashing by cutting a piece of **FlexWrap™** that is at least 12″ longer than the sill width.

Install the sill flashing by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wall. Install into rough opening across sill and up jambs (min 6″). Apply **FlexWrap™** by working from the middle of the sill towards the sides. Secure **FlexWrap™** tightly into the corners by first working in along the sill before adhering up the jambs.

Do not stretch material along the sill or jambs.

STEP 3

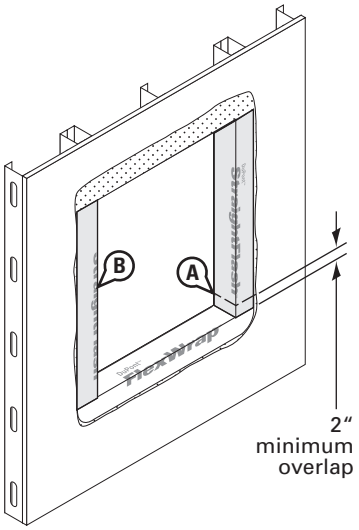
Remove second half of the release paper.

Fan **FlexWrap™** at bottom corners (as indicated by the arrows in the illustration) and adhere onto face of wall or bump out framing.

Firmly press sill flashing to ensure full adhesion on all surfaces. Eliminate wrinkles and bubbles by smoothing surface.

Steel Stud with Integral Flanged Window

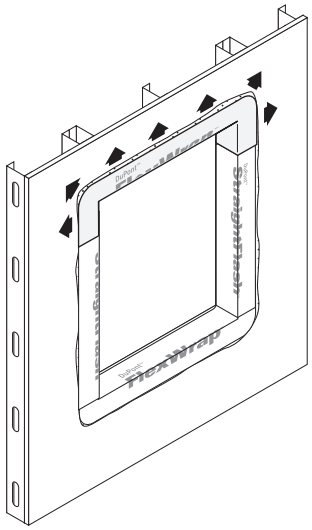
Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier



STEP 4

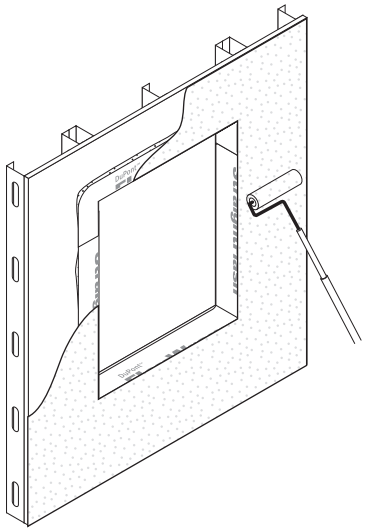
A. Cut two pieces of 9” **StraightFlash™** to the length of the jamb. Jamb flashing should overlap the sill flashing by at least 2” and be overlapped by future head flashing by at least 2”.

B. Remove release paper and position **StraightFlash™** so that 2” will extend onto the face of the wall or bump out framing. Wrap jamb flashing into the rough opening at each jamb and onto face of wall or bump out framing. 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**. Eliminate wrinkles and bubbles by smoothing surface.



STEP 5

Adhere **FlexWrap™** to the head using the same installation process as shown in steps 2 and 3 for the sill flashing. Make sure the **FlexWrap™** is cut long enough to overlap the jamb flashing by at least 2”. 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**. Eliminate wrinkles and bubbles by smoothing surface.

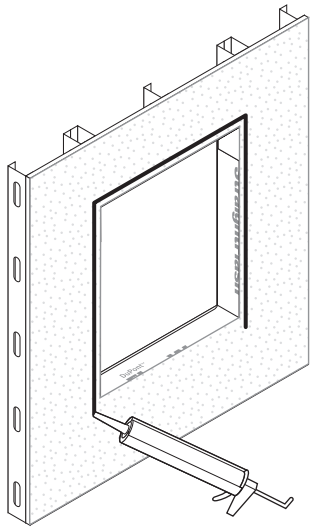


STEP 6

Install **DuPont™ Tyvek® Fluid Applied WB+™** onto wall at 25 mils thick. Coat bump out framing, if applicable, up to the edge of the rough opening, overlapping the **DuPont Self-Adhered Flashing Product**. Coating the **DuPont Self-Adhered Flashing Product** into the sill, is also acceptable. Upon completion, inspect all surfaces to ensure that they are covered and **free of any voids or pinholes**.

Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**, and tapered to wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Exterior insulation and/or cladding may be installed once the membrane has cured sufficiently to resist damage during installation. Skin time is 1-2 hours, and 25 mil is workable in 24 hours at 70°F (20°C), 50% RH.

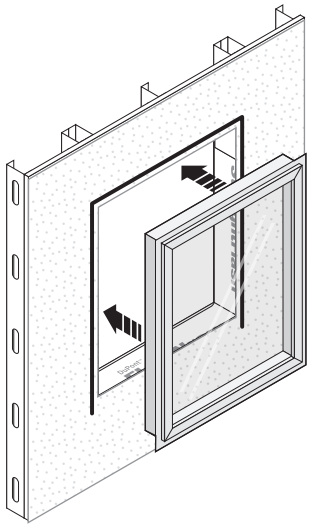


STEP 7

After **Tyvek® Fluid Applied WB+™** has cured, apply a continuous bead of **DuPont™ Sealant for Tyvek® Fluid Applied System** on the wall around the head and jambs of the window rough opening or onto the back side of the window flanges at the head and jambs.

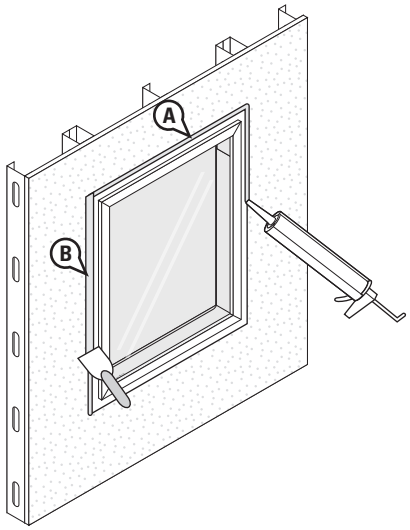
Steel Stud with Integral Flanged Window

Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier



STEP 8

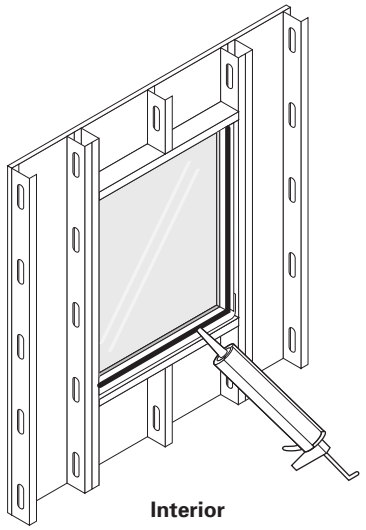
Install window per manufacturer's installation instructions.



STEP 9

A. Apply a continuous bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** along the interface between the window flange and the wall on the jambs and head of the window.

B. Use a trowel or brush to smooth flashing to approximately 2" wide x 60 mils thick. The **Tyvek® Fluid Applied Flashing and Joint Compound+** should extend onto the window flange a minimum of a 1/2" past the flange fasteners (approximately 1" onto either side of the flange / wall interface). Upon completion, inspect surface to ensure that **Tyvek® Fluid Applied Flashing and Joint Compound+** application is continuous and **free of any voids or pinholes**.



STEP 10

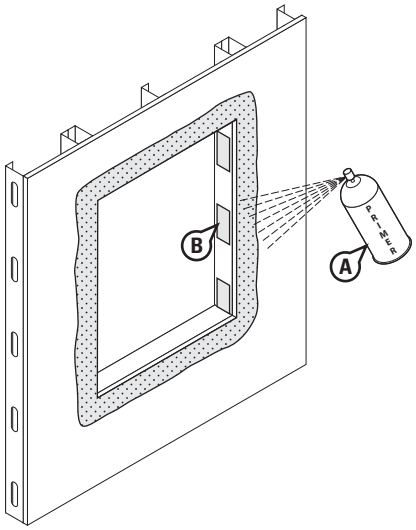
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for Tyvek® Fluid Applied System** along all four sides of the window.

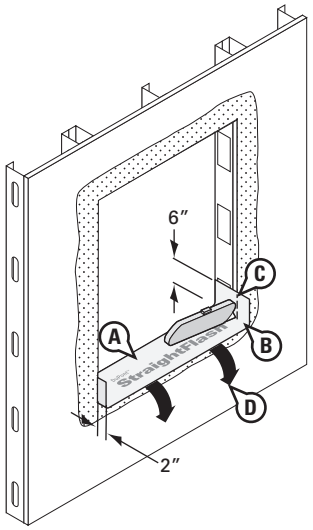
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

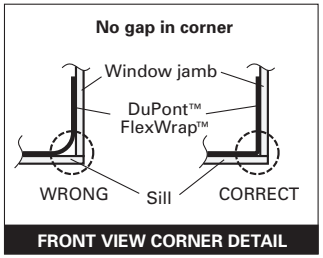
Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

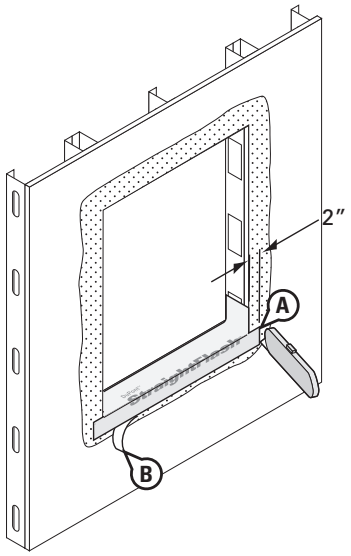
Steel Stud with Integral Flanged Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier









STEP 1

Clean substrate of any material that could negatively affect adhesion, as well as any sharp protrusions.

A. Apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3″ onto the exterior face of the wall or bump out framing surrounding the rough opening, and onto the inside perimeter of the rough opening for concrete surfaces.

B. Cover holes in studs with patches of **StraightFlash™**.

STEP 2

Prepare the sill flashing by cutting a piece of **StraightFlash™** that is at least 12″ longer than the sill width.

A. Install the **StraightFlash™** by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wall and 6″ up the jambs.

B. Secure flashing tightly into the corners by first working it in along the sill before adhering it up the jambs. (See front view corner detail below).

C. Cut the jamb portion of the sill flashing even with the face of the wall.

D. With release paper still attached, fold flashing down onto the face of the wall.

Do not stretch material along the sill or jambs.

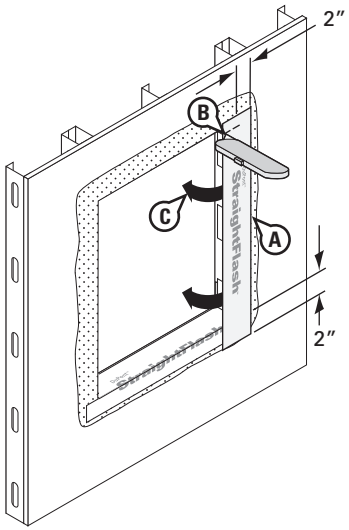
STEP 3

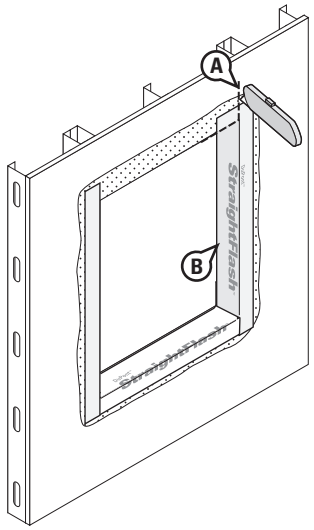
A. Flaps created from vertical cuts in **StraightFlash™** should be trimmed so they do not extend more than 2″ beyond jamb rough opening onto the face of the wall.

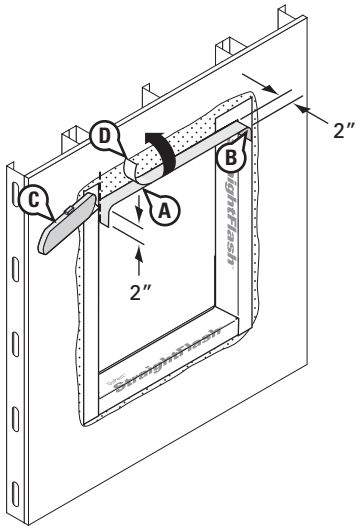
B. Remove remaining release paper and firmly press flashing onto the face of the wall.

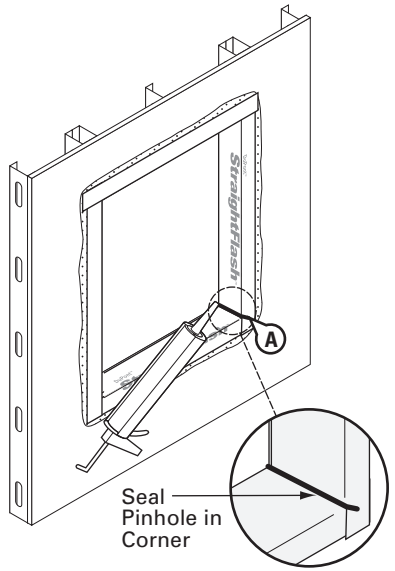
Steel Stud with Integral Flanged Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier









STEP 4

A. Prepare the jamb flashing by cutting two pieces of **StraightFlash™** that are 4″ longer than the jamb length.

B. Remove the 2″ wide portion of the release paper. Place the flashing onto the face of the wall so that it extends a minimum of 2″ past the jamb, head, and sill of the rough opening.

C. Cut the flashing along the head and the sill of the rough opening.

Remove the remaining release paper. Fold the flashing into the rough opening and adhere it to the jamb.

STEP 5

A. Cut vertically along the remaining release paper and remove the excess flashing from the head and the sill.

B. Firmly press flashing onto the jambs, the face of wall or bump out framing and the sill flashing overlaps.

STEP 6

Prepare the head flashing by cutting a piece of **StraightFlash™** that is at least 4″ longer than the rough opening head length.

A. Install the **StraightFlash™** by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wall and will overlap the jamb flashing by at least 2″.

B. Secure flashing tightly into the corners by first working it in along the head before adhering it down the jambs.

C. Cut the jamb portion of the head flashing even with the face of the wall.

D. Remove the remaining release paper, fold the flashing up, and firmly press flashing onto the face of the wall and jamb flashing overlaps. 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**.

STEP 7

A. Seal all four inside corners with **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System**. Extend sealant approximately ½″ onto the face of the wall flashing.

Note: Be sure that the pinholes in the flashing corners are fully covered with sealant.

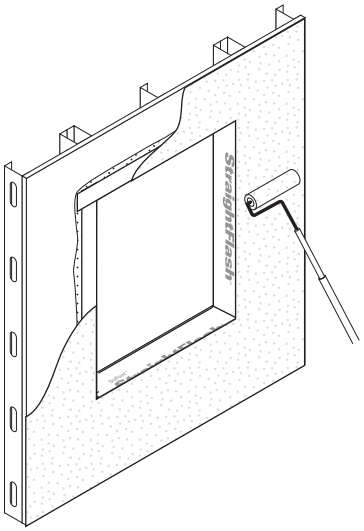
B. Apply a fillet bead of **Tyvek® Fluid Applied Flashing and Joint Compound+** or **Sealant for Tyvek® Fluid Applied System** around the perimeter of the wood buck, at the wood buck / wall interface. The fillet bead should extend approximately 1/2″ onto both surfaces, and tool flat.

C. Tool sealant to achieve optimal joint design.

Note: **DuPont™ Tyvek® Fluid Applied Products** may be overcoated once a tack-free skin has formed. Skin time is 1-2 hrs at 70°F (20°C), 50% RH.

Steel Stud with Integral Flanged Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier

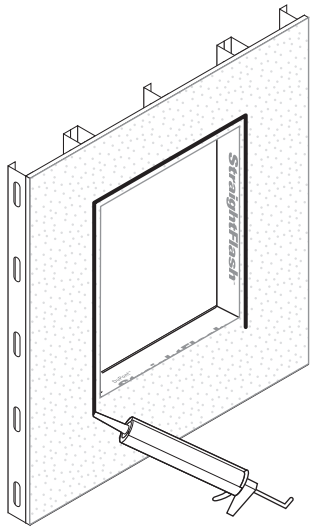


STEP 8

Install **DuPont™ Tyvek® Fluid Applied WB+™** onto wall at 25 mils thick. Coat wood buck, if applicable, up to the edge of the rough opening, overlapping the **DuPont Self-Adhered Flashing Product**. Coating the **DuPont Self-Adhered Flashing Product** into the sill is also acceptable. Upon completion, inspect all surfaces to ensure that they are covered and **free of any voids or pinholes**.

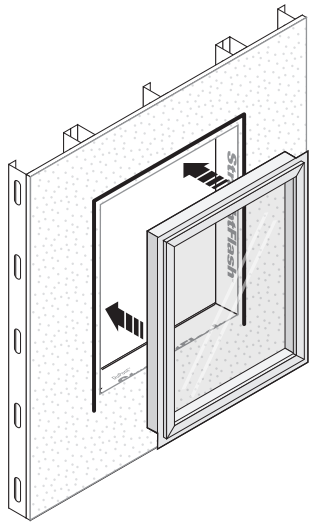
Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**, and tapered to wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Skin time is 1-2 hours, and 25 mils is workable in 24 hours at 70°F (20°C), 50% RH.



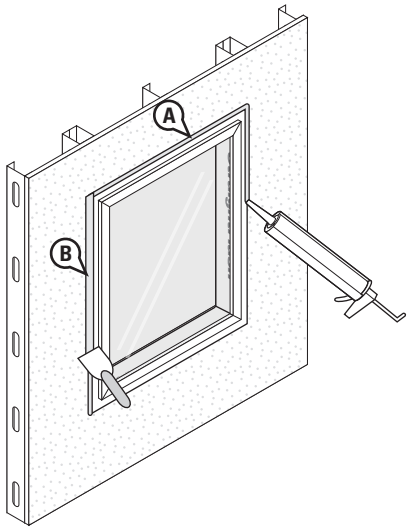
STEP 9

After **DuPont™ Tyvek® Fluid Applied WB+™** has cured, apply a continuous bead of **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** on the wall around the head and jambs of the window rough opening or onto the back side of the window flanges at the head and jambs.



STEP 10

Install window per manufacturer's installation instructions.



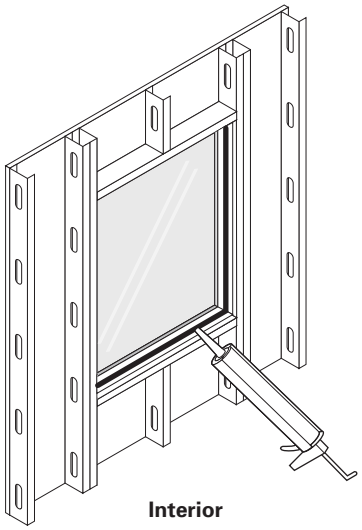
STEP 11

A. Apply a continuous bead of **Tyvek® Fluid Applied Flashing and Joint Compound+** along the interface between the window flange and the wall on the jambs and head of the window.

B. Use a trowel or brush to smooth flashing to approximately 2" wide x 60 mils thick. The **Tyvek® Fluid Applied Flashing and Joint Compound+** should extend onto the window flange a minimum of a 1/2" past the flange fasteners (approximately 1" onto either side of the flange / wall interface). Upon completion, inspect surface to ensure that **Tyvek® Fluid Applied Flashing and Joint Compound+** application is continuous and **free of any voids or pinholes**.

Steel Stud with Integral Flanged Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier



Interior

STEP 12

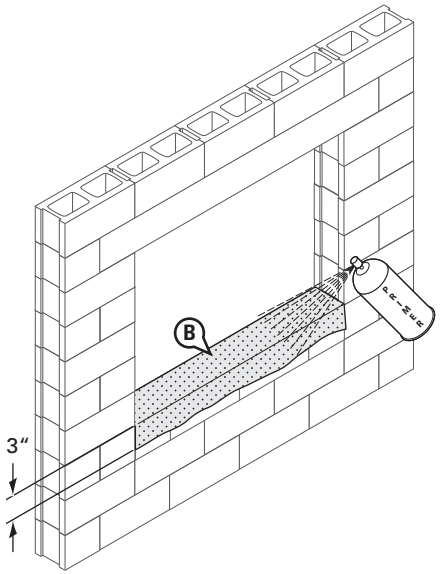
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** along all four sides of the window.

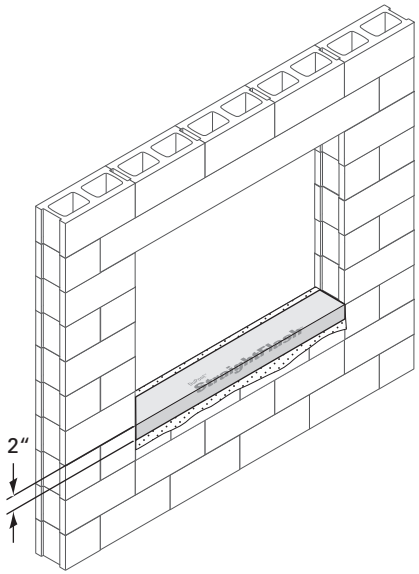
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

Storefront Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier





STEP 1

Clean substrate of any material that could negatively affect adhesion as well as any sharp protrusions.

A. Cover holes in studs with patches of **DuPont™ StraightFlash™**.

B. When using **StraightFlash™** at the sill of the window, apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3″ onto the exterior face of the wall, and onto the inside of the sill for concrete surfaces.

Note: If applying to gypsum sheathing, the cut edge of the gypsum should be primed using **DuPont™ Adhesive/Primer** or recommended primer on all four sides prior to application of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**.

STEP 2

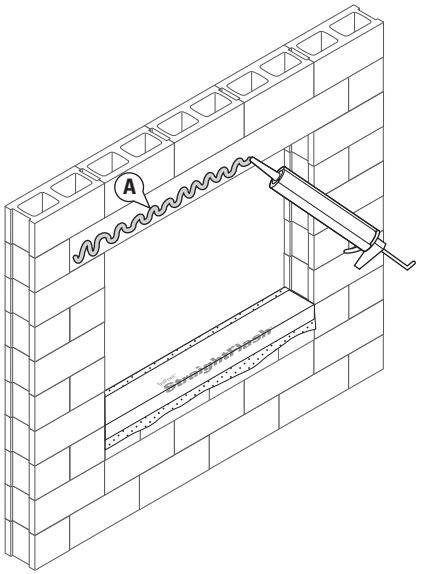
Prepare the sill flashing by cutting a piece of **StraightFlash™** the width of the sill.

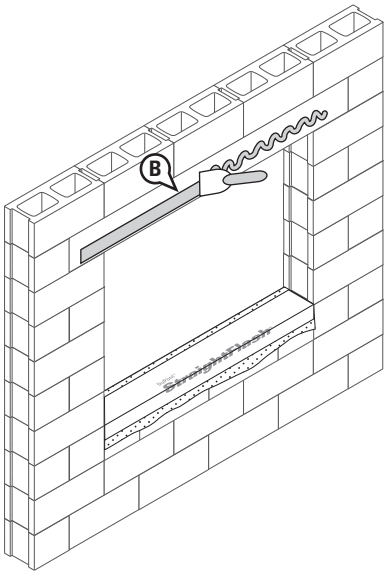
To install the sill flashing, remove release paper and position **StraightFlash™** so that 2″ will extend onto the face of the wall below the sill. Wrap flashing into the rough opening at sill and onto the face of the wall. Apply pressure along entire surface of flashing for a good bond using firm hand 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**.

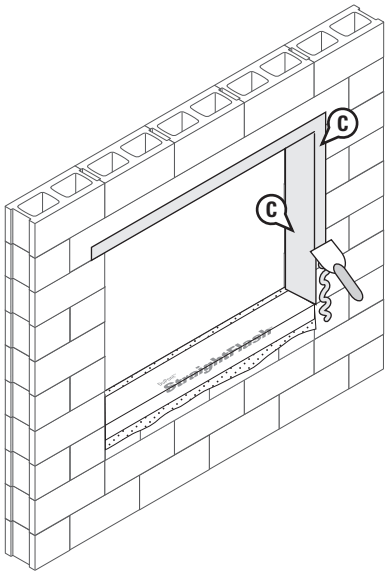
Note: **StraightFlash™** is not required in cases where no fasteners are being installed through the window sill.

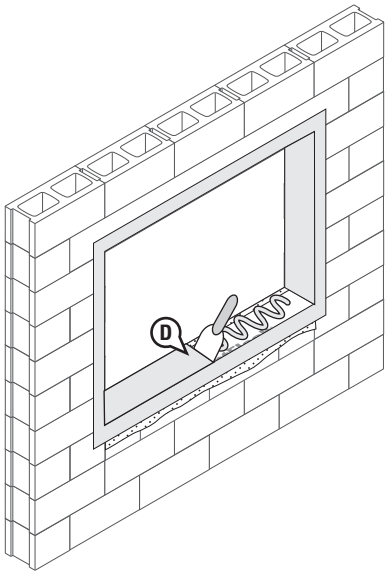
Storefront Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier









STEP 3

A. Starting at the window head, apply a bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** onto the inside surface of the rough opening and onto the face of the wall.

B. Use a trowel or brush to smooth out flashing to a thickness of approximately 25 mils. The flashing should cover the inside of the rough opening and extend a minimum of 2" onto the face of the wall.

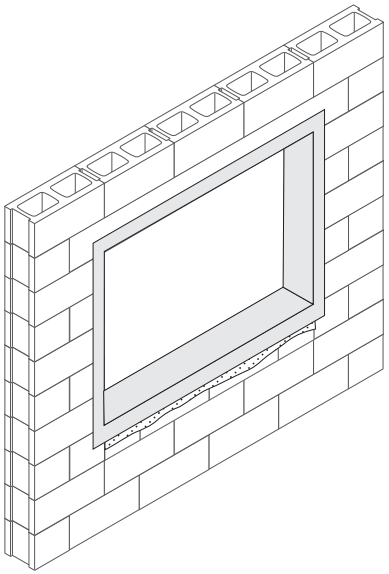
C. Continue the application process outlined above for the jambs.

Note: For the Wood Buck Bump Out with Non-Flanged Window, apply **Tyvek® Fluid Applied Flashing and Joint Compound+** onto the outside edges of the wood buck and onto the wall substrate by a minimum of 2".

D. The **Tyvek® Fluid Applied Flashing and Joint Compound+** should be applied on top of the **DuPont™ StraightFlash™** on the sill and at least 2" min on the face of the wall substrate. Be sure all inside corners are filled and integrated with the **StraightFlash™**. A corner trowel may be used to smooth outside corners.

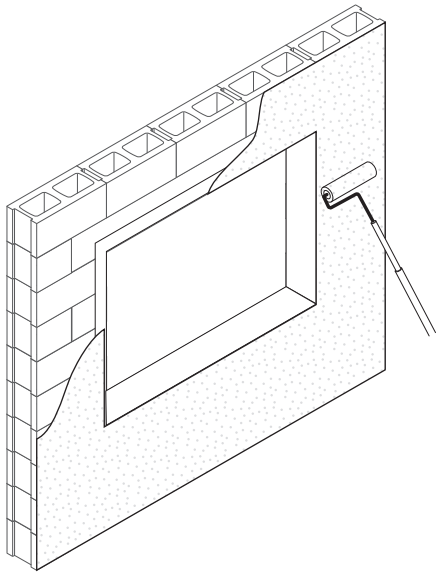
Storefront Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier



STEP 4

Upon completion, inspect surface, including all corners to ensure that **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** is continuous and **free of any voids or pinholes**. **DuPont™ Tyvek® Fluid Applied WB+™** may be applied over and integrated with **Tyvek® Fluid Applied Flashing and Joint Compound+** once a tack-free skin has formed. Skin time is 1-2 hrs at 70°F (20°C), 50% RH.

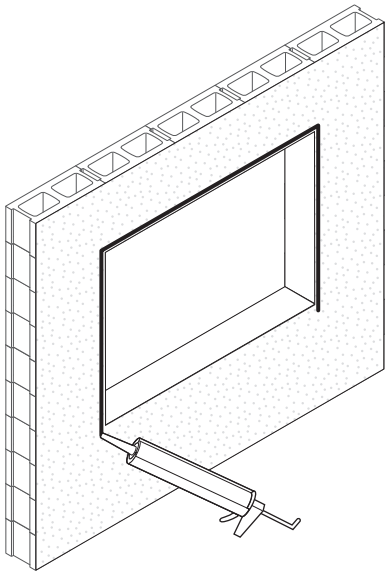


STEP 5

Install **Tyvek® Fluid Applied WB+™** up to the edge of the rough opening, overlapping the **Tyvek® Fluid Applied Flashing and Joint Compound+**.

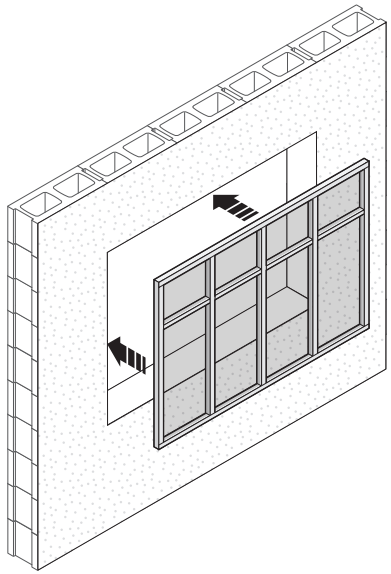
Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **Tyvek® Fluid Applied Flashing and Joint Compound+** or **Tyvek® Fluid Applied WB+™** tapered to the wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Exterior insulation and/or cladding may be installed once the membrane has cured sufficiently to resist damage during installation. Skin time is 1-2 hours, and 25 mil is workable in 24 hours at 70°F (20°C), 50% RH.



STEP 6

After **Tyvek® Fluid Applied WB+™** has cured, apply a continuous bead of **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** on the wall around the head and jambs of the window rough opening or onto the back side of the window flanges at the head and jambs. Do not apply sealant across bottom sill flange.

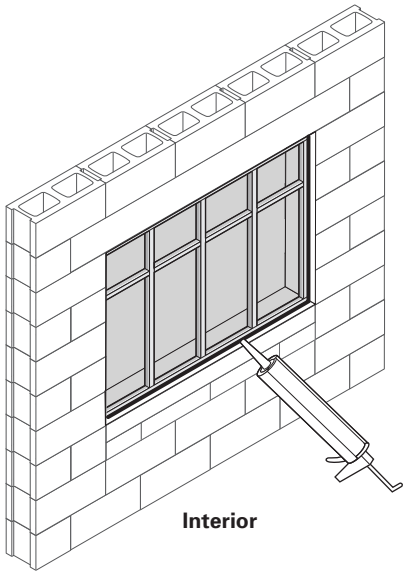


STEP 8

Install window per manufacturer's installation instructions.

Storefront Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier



STEP 9

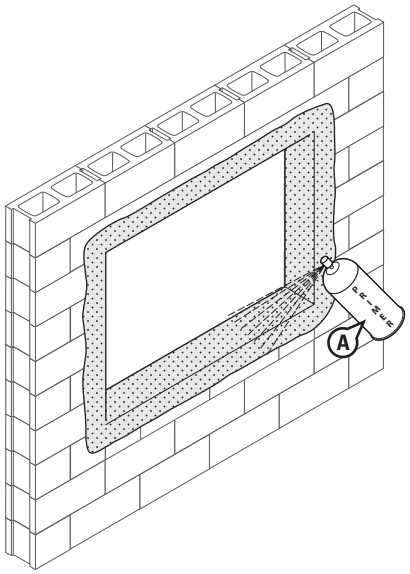
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for Tyvek® Fluid Applied System** along all four sides of the window.

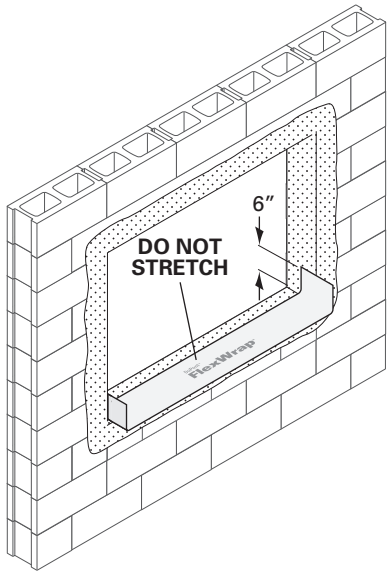
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

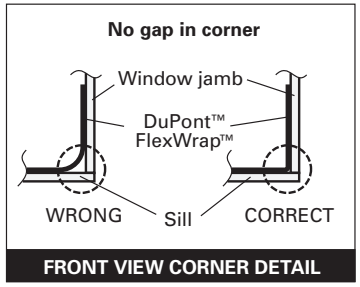
Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

Storefront Window

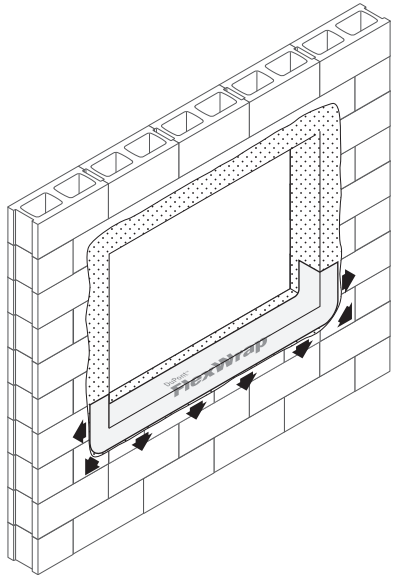
Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier







FRONT VIEW CORNER DETAIL



STEP 1

Clean substrate of any material that could negatively affect adhesion, as well as any sharp protrusions.

A. Apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3″ onto the exterior face of the wall or bump out framing surrounding the rough opening, and onto the inside perimeter of the rough opening for concrete surfaces.

B. Cover holes in studs with patches of **StraightFlash™**.

STEP 2

Prepare the sill flashing by cutting a piece of **FlexWrap™** that is at least 12″ longer than the sill width.

Install the sill flashing by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wall. Install into rough opening across sill and up jambs (min 6″). Apply **FlexWrap™** by working from the middle of the sill towards the sides. Secure **FlexWrap™** tightly into the corners by first working in along the sill before adhering up the jambs.

Do not stretch material along the sill or jambs.

STEP 3

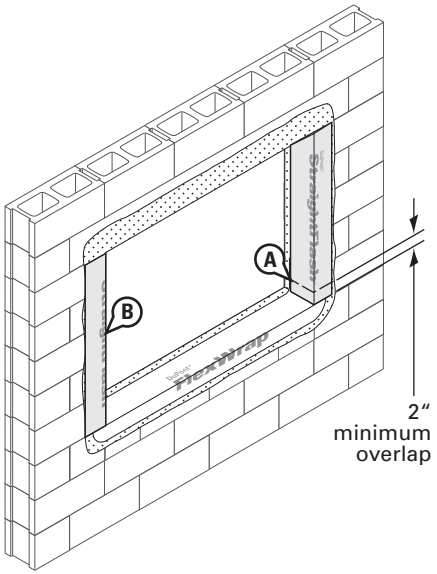
Remove second half of the release paper.

Fan **FlexWrap™** at bottom corners (as indicated by the arrows in the illustration) and adhere onto face of wall or bump out framing.

Firmly press sill flashing to ensure full adhesion on all surfaces. Eliminate wrinkles and bubbles by smoothing surface.

Storefront Window

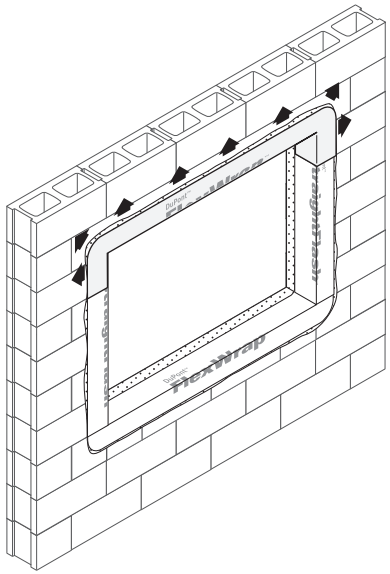
Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier



STEP 4

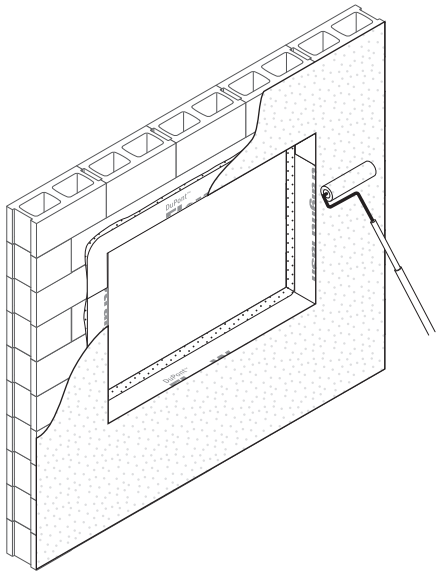
A. Cut two pieces of 9" **StraightFlash™** to the length of the jamb. Jamb flashing should overlap the sill flashing by at least 2" and be overlapped by future head flashing by at least 2".

B. Remove release paper and position **StraightFlash™** so that 2" will extend onto the face of the wall or bump out framing. Wrap jamb flashing into the rough opening at each jamb and onto face of wall or bump out framing. 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**. Eliminate wrinkles and bubbles by smoothing surface.



STEP 5

Adhere **FlexWrap™** to the head using the same installation process as shown in steps 2 and 3 for the sill flashing. Make sure the **FlexWrap™** is cut long enough to overlap the jamb flashing by at least 2". 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**. Eliminate wrinkles and bubbles by smoothing surface.

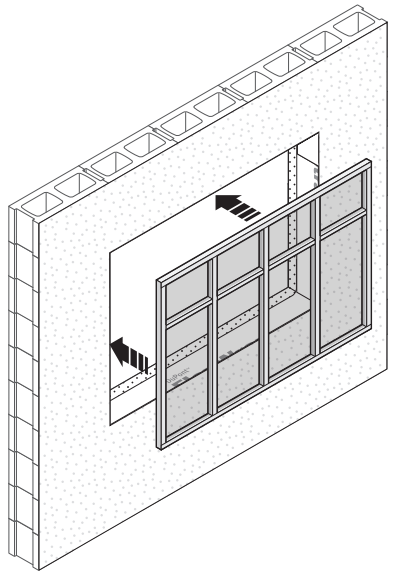


STEP 6

Install **DuPont™ Tyvek® Fluid Applied WB+™** onto wall at 25 mils thick. Coat bump out framing, if applicable, up to the edge of the rough opening, overlapping the **DuPont Self-Adhered Flashing Product**. Coating the **DuPont Self-Adhered Flashing Product** into the sill, is also acceptable. Upon completion, inspect all surfaces to ensure that they are covered and **free of any voids or pinholes**.

Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**, and tapered to wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Exterior insulation and/or cladding may be installed once the membrane has cured sufficiently to resist damage during installation. Skin time is 1-2 hours, and 25 mil is workable in 24 hours at 70°F (20°C), 50% RH.

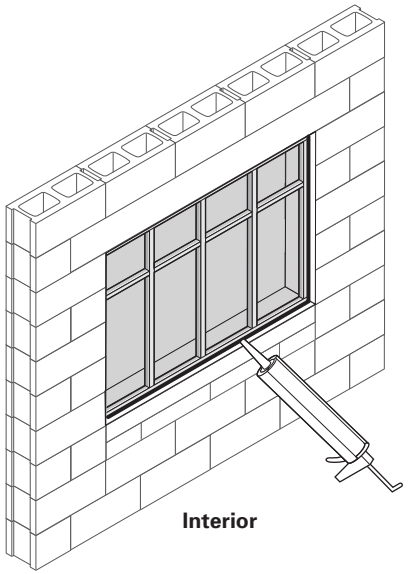


STEP 7

Install window per manufacturer's installation instructions.

Storefront Window

Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier



STEP 8

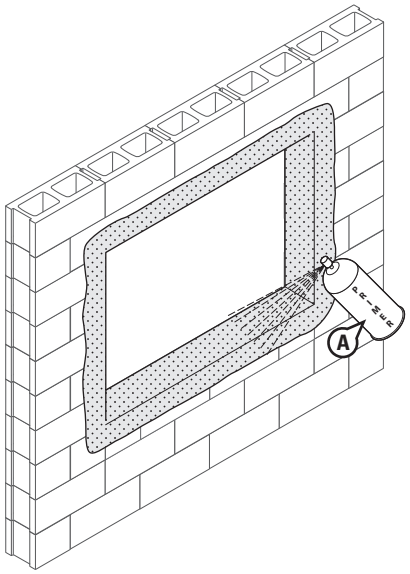
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** along all four sides of the window.

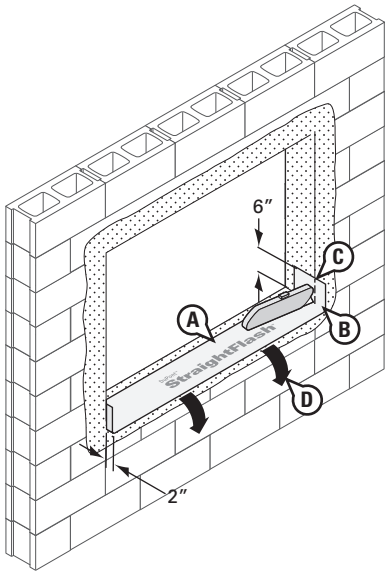
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

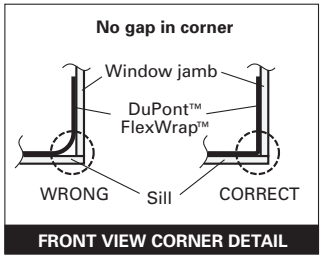
Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

Storefront Window

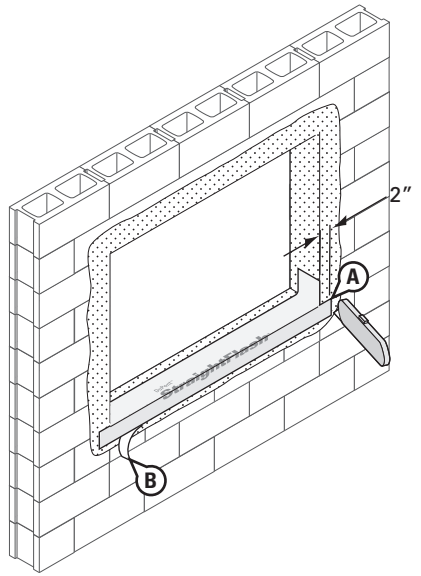
Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier







FRONT VIEW CORNER DETAIL



STEP 1

Clean substrate of any material that could negatively affect adhesion, as well as any sharp protrusions.

A. Apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3″ onto the exterior face of the wall or bump out framing surrounding the rough opening, and onto the inside perimeter of the rough opening for concrete surfaces.

B. Cover holes in studs with patches of **StraightFlash™**.

STEP 2

Prepare the sill flashing by cutting a piece of **StraightFlash™** that is at least 12″ longer than the sill width.

A. Install the **StraightFlash™** by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wall and 6″ up the jambs.

B. Secure flashing tightly into the corners by first working it in along the sill before adhering it up the jambs. (See front view corner detail below).

C. Cut the jamb portion of the sill flashing even with the face of the wall.

D. With release paper still attached, fold flashing down onto the face of the wall.

Do not stretch material along the sill or jambs.

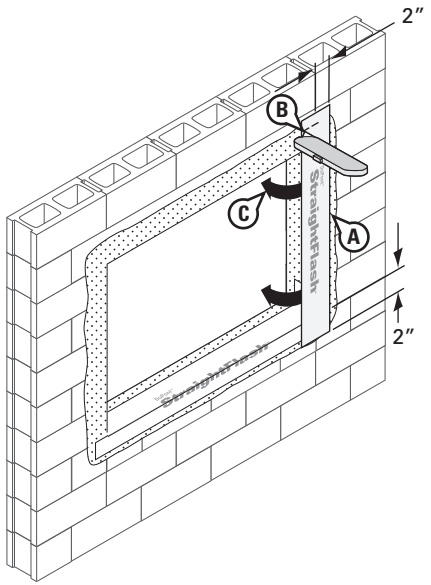
STEP 3

A. Flaps created from vertical cuts in **StraightFlash™** should be trimmed so they do not extend more than 2″ beyond jamb rough opening onto the face of the wall.

B. Remove remaining release paper and firmly press flashing onto the face of the wall.

Storefront Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier



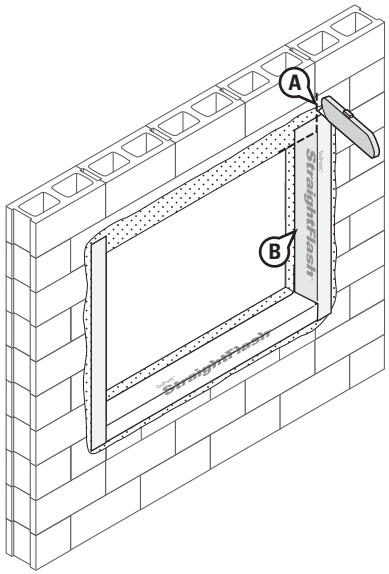
STEP 4

Prepare the jamb flashing by cutting two pieces of **StraightFlash™** that are 4″ longer than the jamb length.

A. Remove the 2″ wide portion of the release paper. Place the flashing onto the face of the wall so that it extends a minimum of 2″ past the jamb, head, and sill of the rough opening.

B. Cut the flashing along the head and the sill of the rough opening.

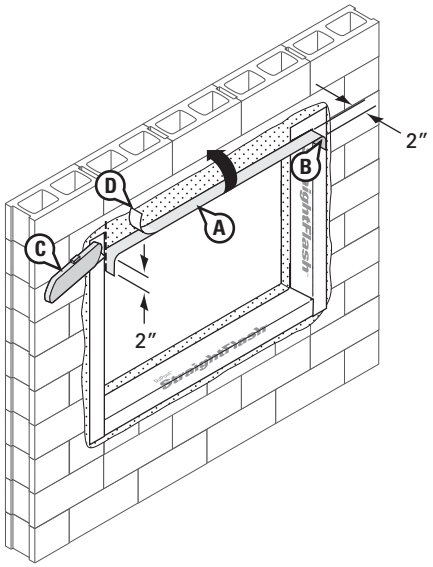
C. Remove the remaining release paper. Fold the flashing into the rough opening and adhere it to the jamb.



STEP 5

A. Cut vertically along the remaining release paper and remove the excess flashing from the head and the sill.

B. Firmly press flashing onto the jambs, the face of wall or bump out framing and the sill flashing overlaps.



STEP 6

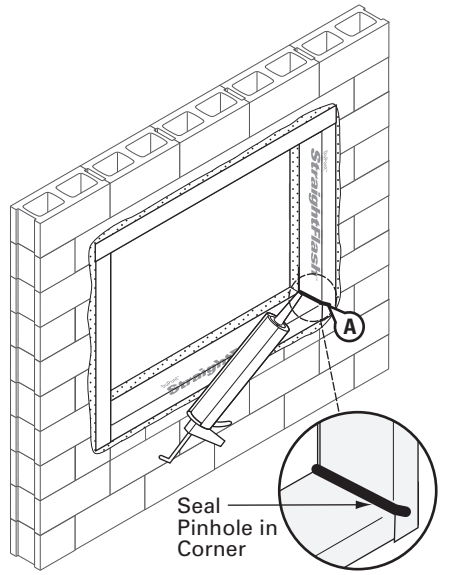
Prepare the head flashing by cutting a piece of **StraightFlash™** that is at least 4″ longer than the rough opening head length.

A. Install the **StraightFlash™** by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wall and will overlap the jamb flashing by at least 2″.

B. Secure flashing tightly into the corners by first working it in along the head before adhering it down the jambs.

C. Cut the jamb portion of the head flashing even with the face of the wall.

D. Remove the remaining release paper, fold the flashing up, and firmly press flashing onto the face of the wall and jamb flashing overlaps. 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**.



STEP 7

A. Seal all four inside corners with **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System**. Extend sealant approximately ½″ onto the face of the wall flashing.

Note: Be sure that the pinholes in the flashing corners are fully covered with sealant.

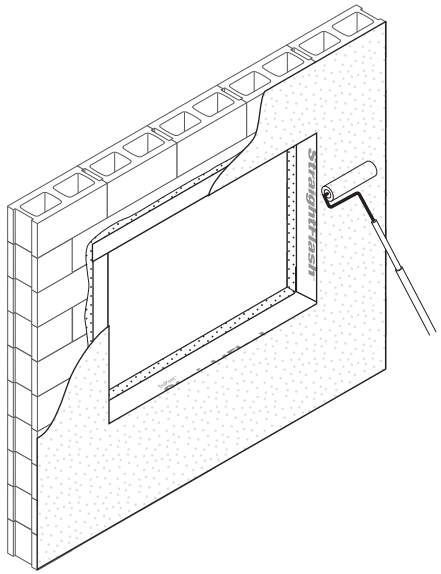
B. Apply a fillet bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** or **Sealant for Tyvek® Fluid Applied System** around the perimeter of the wood buck, at the wood buck / wall interface. The fillet bead should extend approximately 1/2″ onto both surfaces, and tool flat.

C. Tool sealant to achieve optimal joint design.

Note: **DuPont™ Tyvek® Fluid Applied Products** may be overcoated once a tack-free skin has formed. Skin time is 1-2 hrs at 70°F (20°C), 50% RH.

Storefront Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier

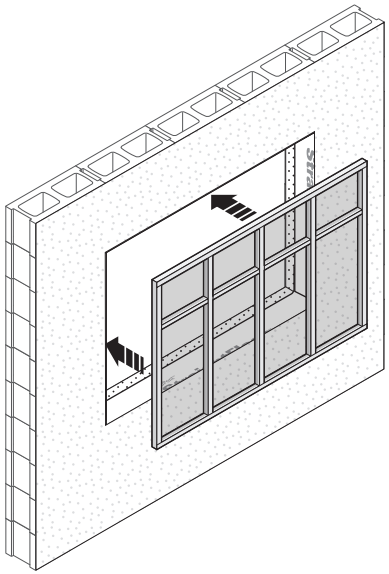


STEP 8

Install **DuPont™ Tyvek® Fluid Applied WB+™** onto wall at 25 mils thick. Coat wood buck, if applicable, up to the edge of the rough opening, overlapping the **DuPont Self-Adhered Flashing Product**. Coating the **DuPont Self-Adhered Flashing Product** into the sill is also acceptable. Upon completion, inspect all surfaces to ensure that they are covered and **free of any voids or pinholes**.

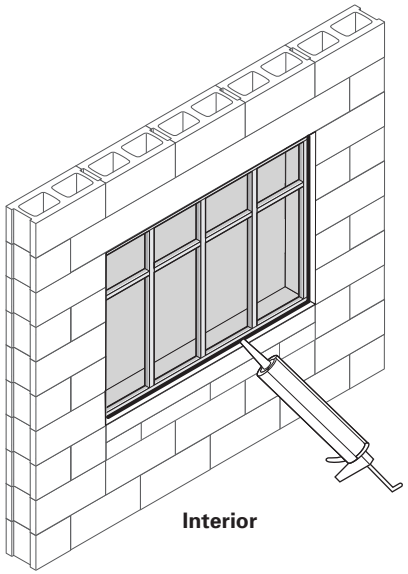
Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**, and tapered to wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Skin time is 1-2 hours, and 25 mils is workable in 24 hours at 70°F (20°C), 50% RH.



STEP 9

Install window per manufacturer's installation instructions.



STEP 10

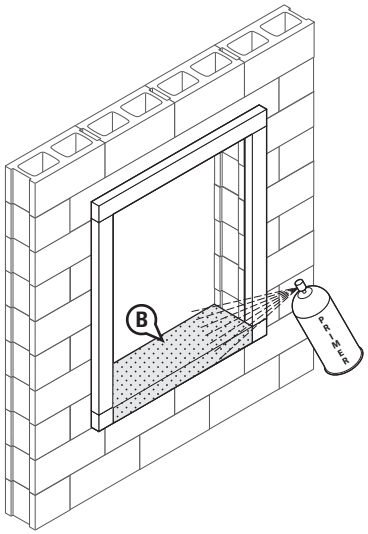
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** along all four sides of the window.

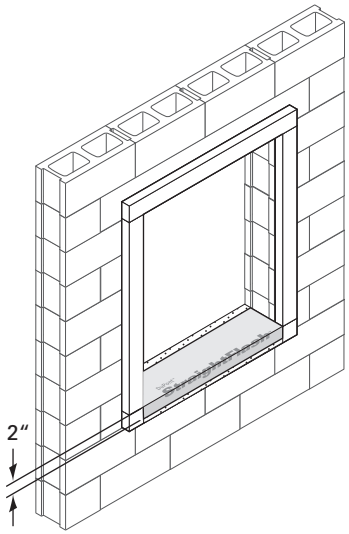
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

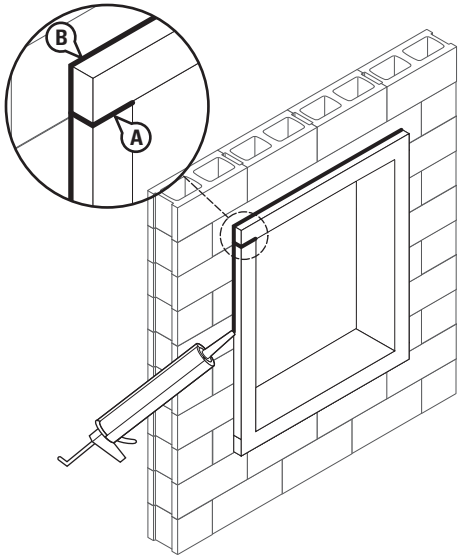
Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

Wood Buck Bump Out with Non-flanged Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier







STEP 1

Clean substrate of any material that could negatively affect adhesion as well as any sharp protrusions.

A. Cover holes in studs with patches of **DuPont™ StraightFlash™**.

B. When using **StraightFlash™** at the sill of the window, apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3" onto the exterior face of the wall, and onto the inside of the sill for concrete surfaces.

Note: If applying to gypsum sheathing, the cut edge of the gypsum should be primed using **DuPont™ Adhesive/Primer** or recommended primer on all four sides prior to application of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**.

STEP 2

Prepare the sill flashing by cutting a piece of **StraightFlash™** the width of the sill.

To install the sill flashing, remove release paper and position **StraightFlash™** so that 2" will extend onto the face of the wall below the sill. Wrap flashing into the rough opening at sill and onto the face of the wall. 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**.

Note: **StraightFlash™** is not required in cases where no fasteners are being installed through the window sill.

STEP 3

A. Apply a bead of **Tyvek® Fluid Applied Flashing and Joint Compound+** or **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** to all the seams, and fill any holes or cracks in the bump out framing and tool flat.

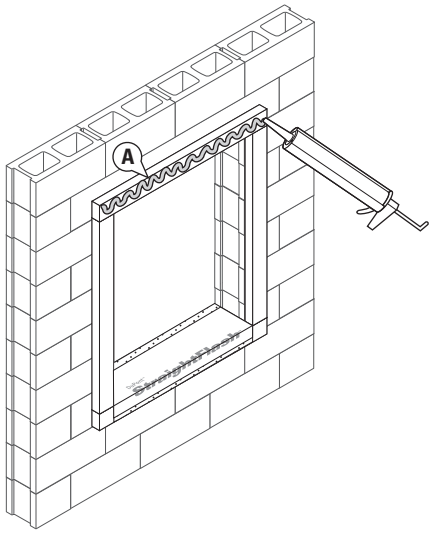
B. Apply a fillet bead of **Tyvek® Fluid Applied Flashing and Joint Compound+** or **Sealant for Tyvek® Fluid Applied System** around the perimeter of the wood buck, at the wood buck / wall interface. The fillet bead should extend approximately 1/2" onto both surfaces.

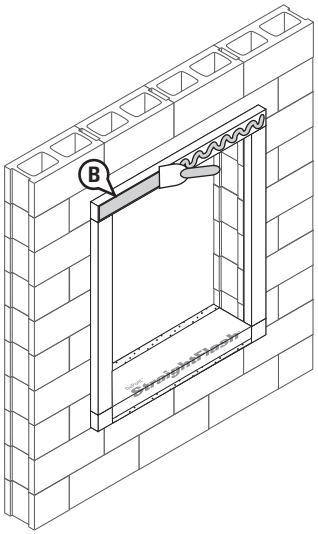
C. Tool sealant to achieve optimal joint design.

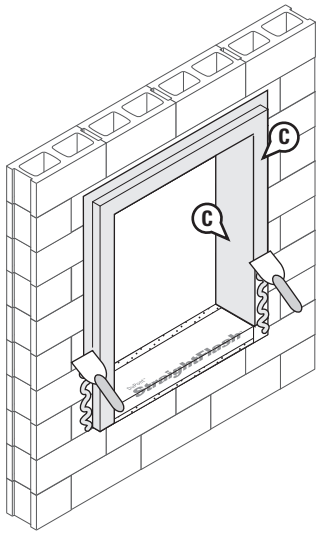
Note: **DuPont™ Tyvek® Fluid Applied Products** may be overcoated once a tack-free skin has formed. Skin time is 1-2 hrs at 70°F (20°C), 50% RH.

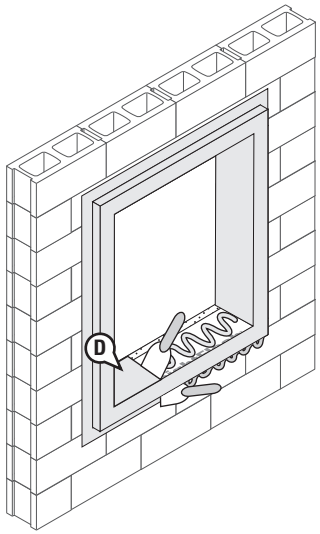
Wood Buck Bump Out with Non-flanged Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier









STEP 4

A. Starting at the window head, apply a bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** onto the inside surface of the rough opening and onto the face of the wood buck.

B. Use a trowel or brush to smooth out flashing to a thickness of approximately 25 mils. The flashing should cover the inside of the rough opening and extend a minimum of 2″ onto the face of the wood buck.

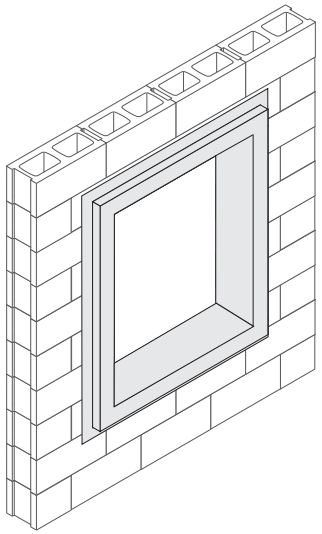
C. Continue the application process outlined above for the jambs.

Note: For the Wood Buck Bump Out with Non-Flanged Window, apply **Tyvek® Fluid Applied Flashing and Joint Compound+** onto the outside edges of the wood buck and onto the wall substrate by a minimum of 2″.

D. The **Tyvek® Fluid Applied Flashing and Joint Compound+** should be applied on top of the **DuPont™ StraightFlash™** on the sill and at least 2″ min on the face of the wood buck substrate. Be sure all inside corners are filled and integrated with the **StraightFlash™**. A corner trowel may be used to smooth outside corners.

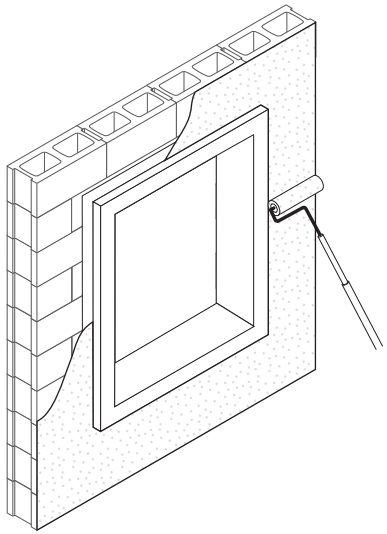
Wood Buck Bump Out with Non-flanged Window

Method 1: Fluid Applied Flashing with Fluid Applied Weather Barrier



STEP 5

Upon completion, inspect surface, including all corners to ensure that **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** is continuous and **free of any voids or pinholes**. **DuPont™ Tyvek® Fluid Applied WB+™** may be applied over and integrated with **Tyvek® Fluid Applied Flashing and Joint Compound+** once a tack-free skin has formed. Skin time is 1-2 hrs at 70°F (20°C), 50% RH.

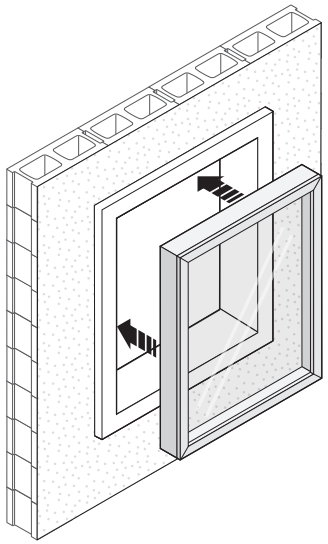


STEP 6

Install **Tyvek® Fluid Applied WB+™** up to the edge of the rough opening, overlapping the **Tyvek® Fluid Applied Flashing and Joint Compound+**.

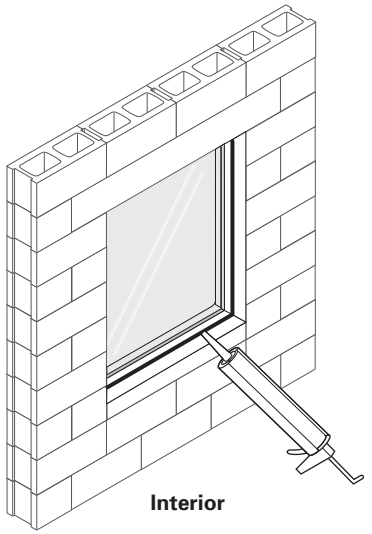
Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **Tyvek® Fluid Applied Flashing and Joint Compound+** or **Tyvek® Fluid Applied WB+™** tapered to the wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Exterior insulation and/or cladding may be installed once the membrane has cured sufficiently to resist damage during installation. Skin time is 1-2 hours, and 25 mil is workable in 24 hours at 70°F (20°C), 50% RH.



STEP 7

Install window per manufacturer's installation instructions.



STEP 8

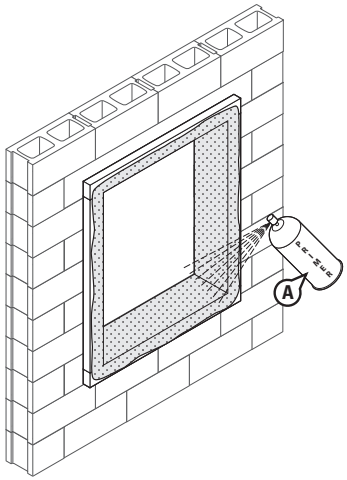
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** along all four sides of the window.

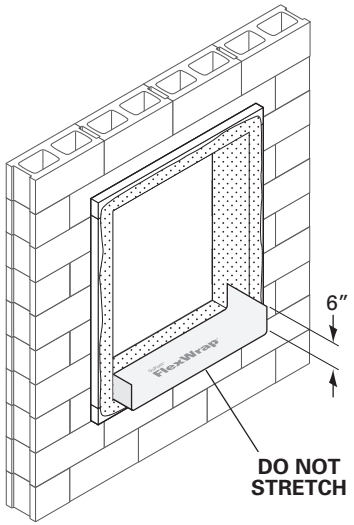
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

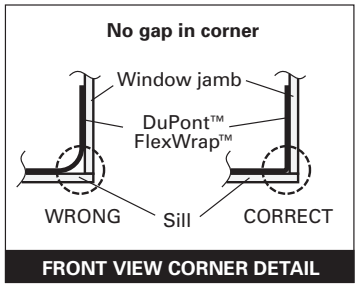
Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

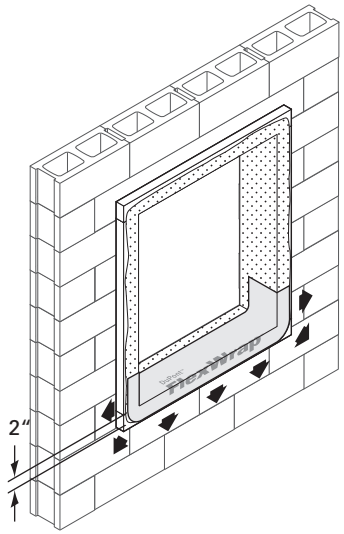
Wood Buck Bump Out with Non-flanged Window

Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier









STEP 1

Clean substrate of any material that could negatively affect adhesion, as well as any sharp protrusions.

A. Apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3″ onto the exterior face of the wall or bump out framing surrounding the rough opening, and onto the inside perimeter of the rough opening for concrete surfaces.

B. Cover holes in studs with patches of **StraightFlash™**.

STEP 2

Prepare the sill flashing by cutting a piece of **FlexWrap™** that is at least 12″ longer than the sill width.

Install the sill flashing by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wall. Install into rough opening across sill and up jambs (min 6″). Apply **FlexWrap™** by working from the middle of the sill towards the sides. Secure **FlexWrap™** tightly into the corners by first working in along the sill before adhering up the jambs.

Do not stretch material along the sill or jambs.

STEP 3

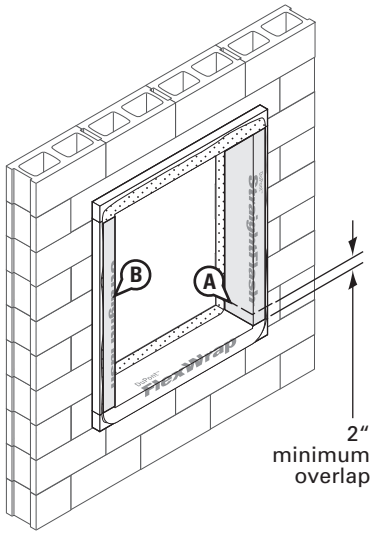
Remove second half of the release paper.

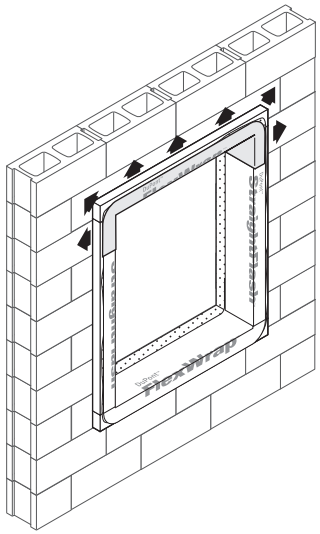
Fan **FlexWrap™** at bottom corners (as indicated by the arrows in the illustration) and adhere onto face of wall or bump out framing.

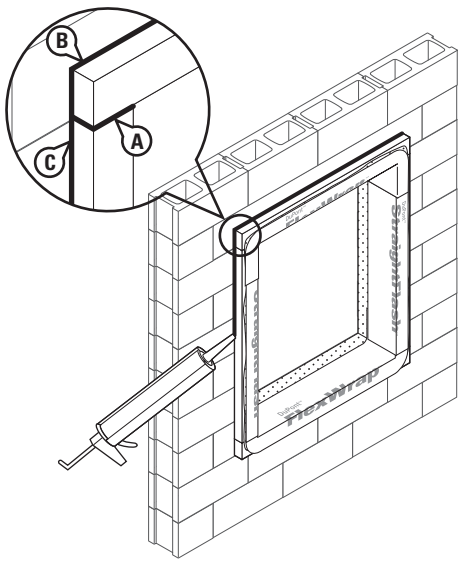
Firmly press sill flashing to ensure full adhesion on all surfaces. Eliminate wrinkles and bubbles by smoothing surface.

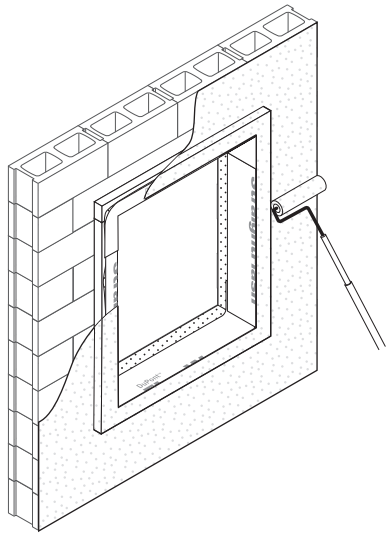
Wood Buck Bump Out with Non-flanged Window

Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier









STEP 4

A. Cut two pieces of 9" **StraightFlash™** to the length of the jamb. Jamb flashing should overlap the sill flashing by at least 2" and be overlapped by future head flashing by at least 2".

B. Remove release paper and position **StraightFlash™** so that 2" will extend onto the face of the wall or bump out framing. Wrap jamb flashing into the rough opening at each jamb and onto face of wall or bump out framing. 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**. Eliminate wrinkles and bubbles by smoothing surface.

STEP 5

Adhere **FlexWrap™** to the head using the same installation process as shown in steps 2 and 3 for the sill flashing. Make sure the **FlexWrap™** is cut long enough to overlap the jamb flashing by at least 2". 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**. Eliminate wrinkles and bubbles by smoothing surface.

STEP 6

A. Apply a bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** or **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** to the seams in the bump out framing. Fill any remaining holes or cracks in bump out framing using the joint compound or sealant, and tool flat.

B. Apply a fillet bead of **Tyvek® Fluid Applied Flashing and Joint Compound+** or **Sealant for Tyvek® Fluid Applied System** to the perimeter of the wood buck at the wood buck / wall interface. Fillet bead should extend approximately 1/2" onto both surfaces.

C. Tool sealant to achieve optimal joint design.

STEP 7

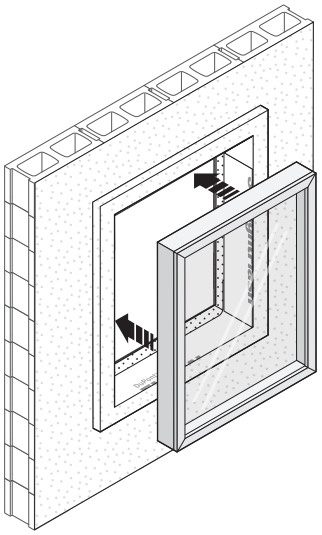
Install **DuPont™ Tyvek® Fluid Applied WB+™** onto wall at 25 mils thick. Coat bump out framing, if applicable, up to the edge of the rough opening, overlapping the **DuPont Self-Adhered Flashing Product**. Coating the **DuPont Self-Adhered Flashing Product** into the sill, is also acceptable. Upon completion, inspect all surfaces to ensure that they are covered and **free of any voids or pinholes**.

Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **Tyvek® Fluid Applied Flashing and Joint Compound+**, and tapered to wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Exterior insulation and/or cladding may be installed once the membrane has cured sufficiently to resist damage during installation. Skin time is 1-2 hours, and 25 mil is workable in 24 hours at 70°F (20°C), 50% RH.

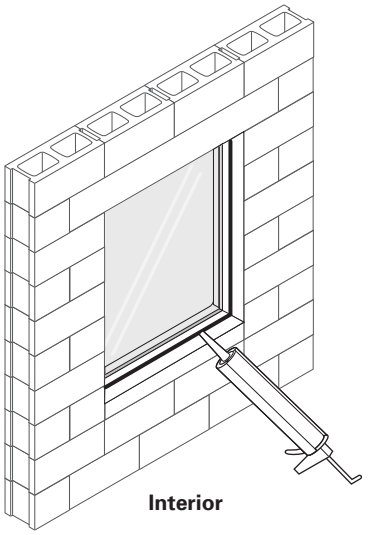
Wood Buck Bump Out with Non-flanged Window

Method 2: Self-Adhered Flashing Using DuPont™ FlexWrap™ and DuPont™ StraightFlash™ with Fluid Applied Weather Barrier



STEP 8

Install window per manufacturer's installation instructions.



STEP 9

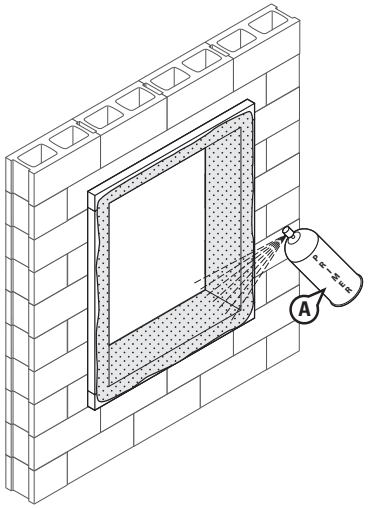
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for Tyvek® Fluid Applied System** along all four sides of the window.

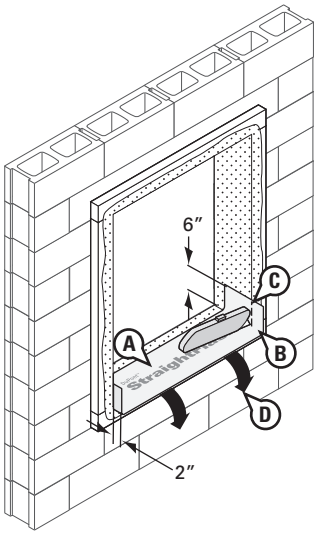
When the facade is complete, place a continuous sealant bead integrating the window to the facade.

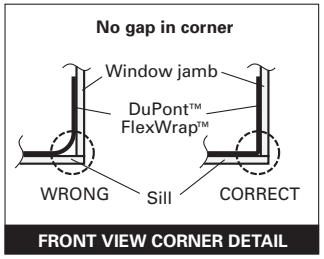
Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

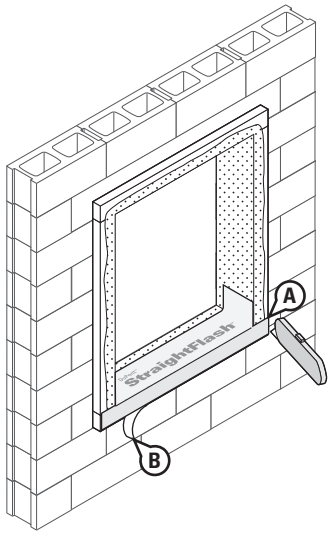
Wood Buck Bump Out with Non-flanged Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier









STEP 1

Clean substrate of any material that could negatively affect adhesion, as well as any sharp protrusions.

A. Apply **DuPont™ Adhesive/Primer** or recommended primer approximately 3″ onto the exterior face of the wall or bump out framing surrounding the rough opening, and onto the inside perimeter of the rough opening for concrete surfaces.

B. Cover holes in studs with patches of **StraightFlash™**

STEP 2

Prepare the sill flashing by cutting a piece of **StraightFlash™** that is at least 12″ longer than the sill width.

A. Install the **StraightFlash™** by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wood buck and 6″ up the jambs.

B. Secure flashing tightly into the corners by first working it in along the sill before adhering it up the jambs. (See front view corner detail below).

C. Cut the jamb portion of the sill flashing even with the face of the wood buck.

D. With release paper still attached, fold flashing down onto the face of the wood buck.

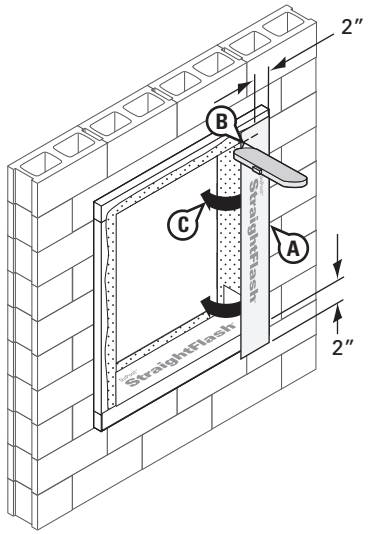
STEP 3

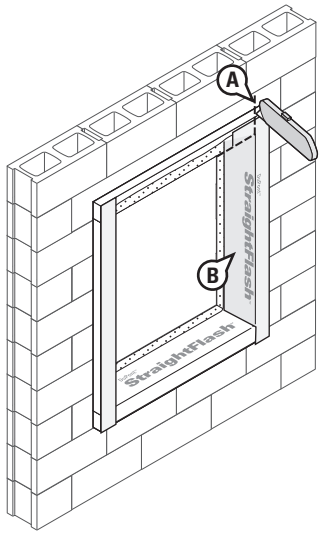
A. Flaps created from vertical cuts in **StraightFlash™** should be trimmed so they do not extend more than 2″ beyond jamb rough opening onto the face of the wood buck.

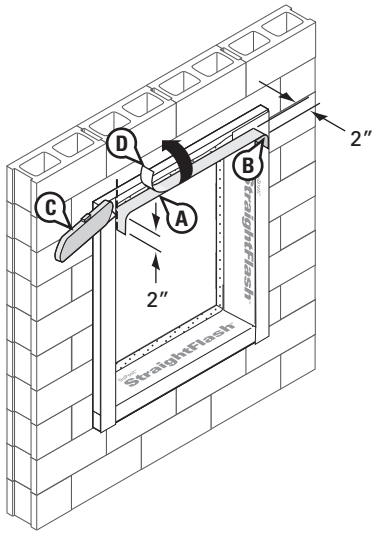
B. Remove remaining release paper and firmly press flashing onto the face of the wood buck.

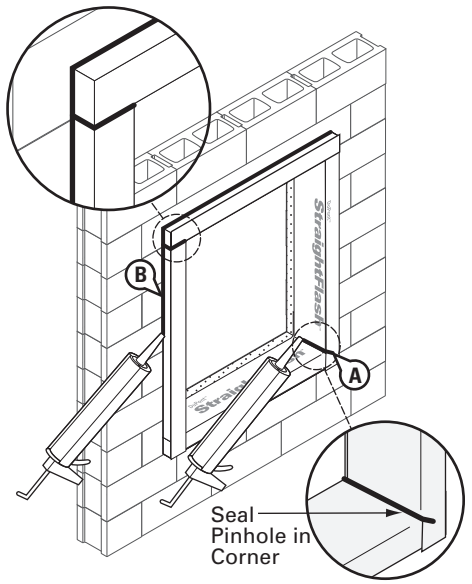
Wood Buck Bump Out with Non-flanged Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier









STEP 4

Prepare the jamb flashing by cutting two pieces of **StraightFlash™** that are 4″ longer than the jamb length.

A. Remove the 2″ wide portion of the release paper. Place the flashing onto the face of the wood buck so that it extends a minimum of 2″ past the jamb, head, and sill of the rough opening.

B. Cut the flashing along the head and the sill of the rough opening.

C. Remove the remaining release paper. Fold the flashing into the rough opening and adhere it to the jamb.

STEP 5

A. Cut vertically along the remaining release paper and remove the excess flashing from the head and the sill.

B. Firmly press flashing onto the jambs, the face of wall or bump out framing and the sill flashing overlaps.

STEP 6

Prepare the head flashing by cutting a piece of **StraightFlash™** that is at least 4″ longer than the rough opening head length.

A. Install the **StraightFlash™** by removing the widest strip of release paper, and aligning the flashing so that a minimum of 2″ will extend onto the face of the wood buck and will overlap the jamb flashing by at least 2″.

B. Secure flashing tightly into the corners by first working it in along the head before adhering it down the jambs.

C. Cut the jamb portion of the head flashing even with the face of the wood buck.

D. Remove the remaining release paper, fold the flashing up, and firmly press flashing onto the face of the wood buck and jamb flashing overlaps. 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**.

STEP 7

E. Seal all four inside corners with **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System**. Extend sealant approximately ½″ onto the face of the wood buck flashing.

Note: Be sure that the pinholes in the flashing corners are fully covered with sealant.

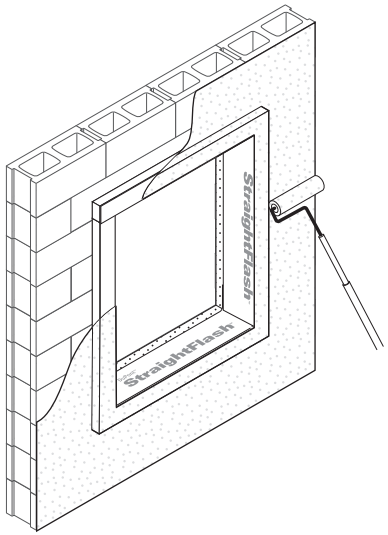
F. Apply a fillet bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** or **Sealant for Tyvek® Fluid Applied System** around the perimeter of the wood buck, at the wood buck / wall interface. The fillet bead should extend approximately 1/2″ onto both surfaces, and tool flat.

G. Tool sealant to achieve optimal joint design.

Note: **DuPont™ Tyvek® Fluid Applied Products** may be overcoated once a tack-free skin has formed. Skin time is 1-2 hrs at 70°F (20°C), 50% RH.

Wood Buck Bump Out with Non-flanged Window

Method 3: Alternate Self-Adhered Flashing Option Using DuPont™ StraightFlash™ with Fluid Applied Weather Barrier

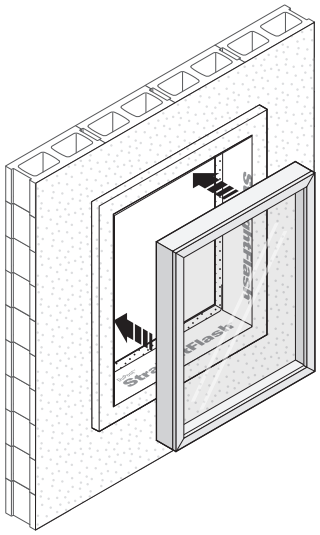


STEP 8

Install **DuPont™ Tyvek® Fluid Applied WB+™** onto wall at 25 mils thick. Coat wood buck, if applicable, up to the edge of the rough opening, overlapping the **DuPont Self-Adhered Flashing Product**. Coating the **DuPont Self-Adhered Flashing Product** into the sill is also acceptable. Upon completion, inspect all surfaces to ensure that they are covered and **free of any voids or pinholes**.

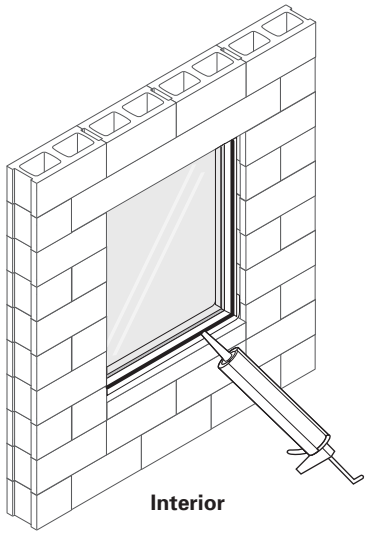
Note: When spraying, the outer edge of **DuPont Self-Adhered Flashing Product** should be treated with **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**, and tapered to wall substrate to help ensure installation is free of pinholes and voids.

Refer to the current *DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines* for application instructions. Skin time is 1-2 hours, and 25 mils is workable in 24 hours at 70°F (20°C), 50% RH.



STEP 9

Install window per manufacturer's installation instructions.



STEP 10

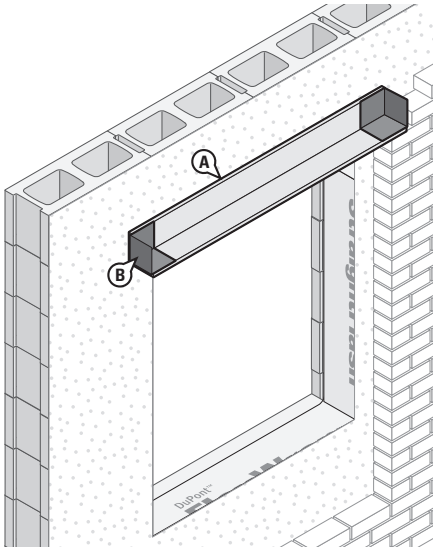
Create a continuous perimeter seal between the interior of the window and the flashing using backer rod and **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** along all four sides of the window.

When the facade is complete, place a continuous sealant bead integrating the window to the facade.

Note: Refer to the Storefront Window CAD details at www.building.dupont.com for more detailed information.

Through Wall Flashing

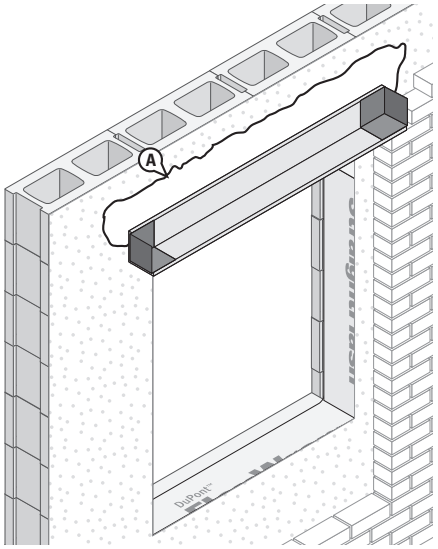
Lintel at Window Head (After Installation of DuPont™ Tyvek® Fluid Applied WB+™)



STEP 1

A. Install lintel on masonry as required.

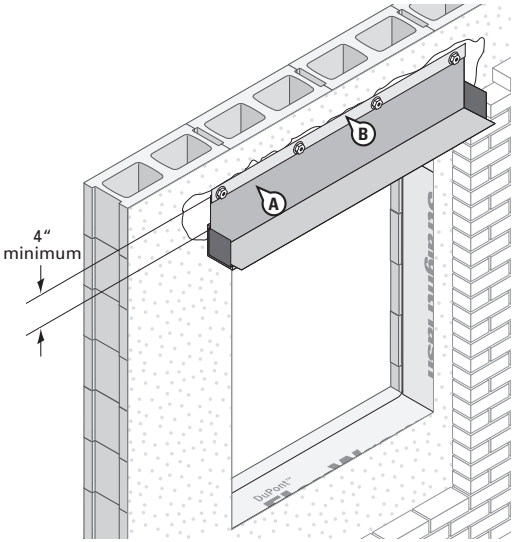
B. Install end dams, beaded in recommended sealant, onto lintel. End dams should extend a minimum of 4" beyond the edge of the window opening.



STEP 2

A. Apply a 25 mil coat of DuPont™ **DuPont™ Tyvek® Fluid Applied System** products onto the face of the wall, extending approximately 5" above the lintel.

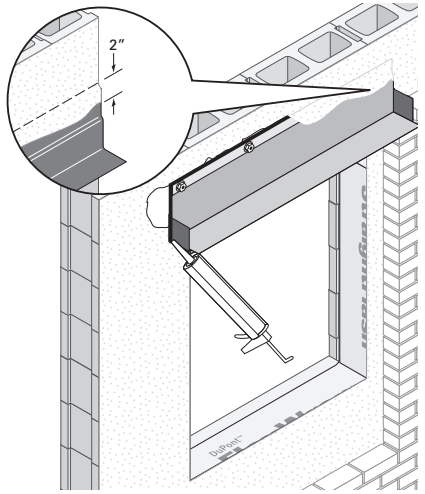
B. Cut through wall flashing to the length needed to fit between the end dams. Use wide enough through wall flashing to extend 4" up onto the face of the wall.



STEP 3

A. Install through wall flashing on to the wall and lintel with a minimum of 4" adhering to the wall surface.

B. Terminate the top edge of flashing using mechanical fasteners. As a best practice, DuPont recommends using a termination bar to terminate flashing.



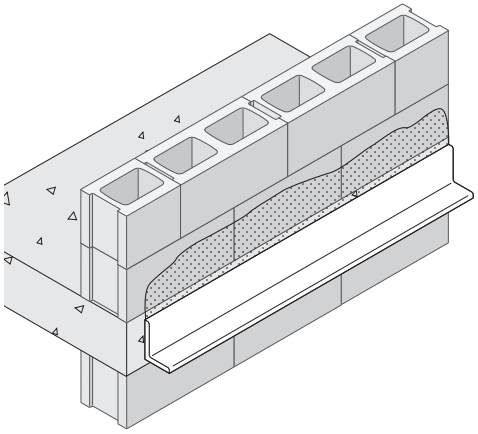
STEP 4

A. Seal the through wall flashing perimeter, seams, and fasteners using **DuPont™ Sealant for Tyvek® Fluid Applied System** or **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+**.

B. Apply a transition coat of **DuPont™ Tyvek® Fluid Applied Product** across the top edge of the through wall flashing membrane and 1"-2" beyond the bottom of the termination bar.

Through Wall Flashing

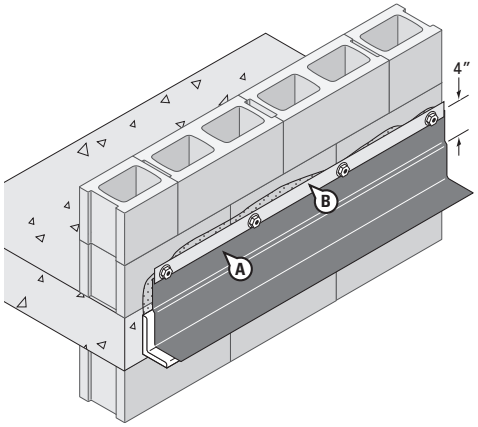
Shelf Angle



STEP 1

Clean wall and lintel of any material that could negatively affect adhesion as well as any sharp protrusions.

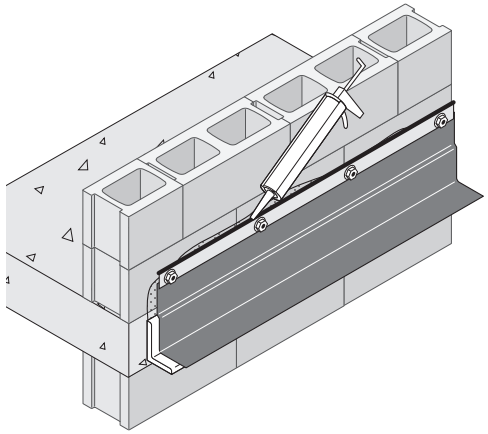
Apply **DuPont™ Adhesive/Primer** or recommended primer approximately 5" onto wall surface above shelf angle.



STEP 2

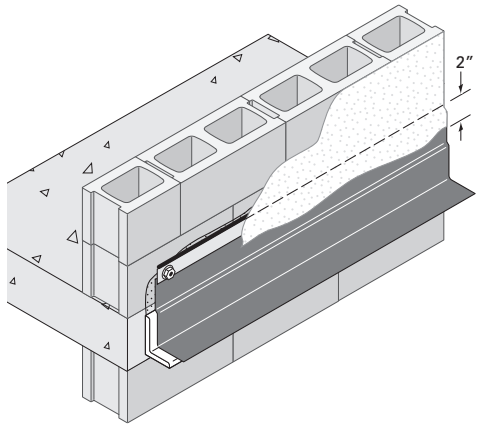
A. Install through wall flashing onto the wall and shelf angle with a minimum of 4" adhering to the wall surface.

B. Terminate the membrane on the vertical wall per plans and specifications. If desired, termination can be performed by using a reglet, counterflashing, termination bar or by embedding in a mortar joint.



STEP 3

Apply **DuPont™ Sealant for DuPont™ Tyvek® Fluid Applied System** or **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** along the perimeter of the through wall flashing and to all seams.



STEP 4

After the **DuPont™ Tyvek® Fluid Applied Product** has formed a tack-free skin, apply **DuPont™ Tyvek® Fluid Applied WB+™** onto the wall surface, overlapping the through wall flashing by a minimum of 2". Skin time is 1-2 hours at 70°F (20°C), 50% RH. **Tyvek® Fluid Applied WB+™** should be installed in accordance with the current DuPont™ Tyvek® Fluid Applied WB Commercial Wall and Substrate Guidelines. Upon completion, inspect the surface to ensure that the **Tyvek® Fluid Applied WB+™** is continuous and **free of any voids or pinholes**.

Note: If the through wall flashing is to be applied after the **Tyvek® Fluid Applied WB+™** has been installed, the top of the through wall flashing should be wet bedded into a coat of a **DuPont™ Tyvek® Fluid Applied System** product. The top should be mechanically fastened, and then the perimeter and all fasteners sealed using a recommended sealant.

Technical Specifications

DuPont™ Tyvek® Fluid Applied Products are formulated to include elastomeric polymers that cure to a continuous, fully-adhered, tough, durable membrane. Additives have been incorporated to provide ultraviolet light resistance. DuPont requires that the **DuPont™ Tyvek® Fluid Applied WB+™** and **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** are to be covered within 9 months of installation

DuPont™ FlexWrap™, **DuPont™ FlexWrap™ EZ**, and **DuPont™ StraightFlash™** are made from 100% butyl adhesive and a top sheet of flash spunbonded high density polyethylene fibers. Additives have been incorporated into these materials to help provide UV light resistance. DuPont requires that **FlexWrap™**, **FlexWrap™ EZ**, and **StraightFlash™** be covered within 9 months of installation.

FlexWrap™, **FlexWrap™ EZ**, and **StraightFlash™** and their release paper are slippery and should not be walked on. Remove release paper from work area immediately. **Tyvek® Fluid Applied Products** are combustible and should be protected from flame and other high heat sources. If burning occurs, ignited droplets may fall away from the point of ignition.

DuPont™ Sealant for Tyvek® Fluid Applied System should be covered within 9 months of installation.

For more information, call 1-800-44-Tyvek

Note

When installed in conjunction with other building materials, **DuPont Self-Adhered Flashing Products** and **Tyvek® Fluid Applied Products** must be properly integrated so that water is diverted to the exterior of the wall system. **Tyvek® Fluid Applied WB+™** is a secondary weather barrier. The outer facade is the primary barrier. 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. You must follow facade manufacturer's installation and maintenance requirements for all facade systems in order to maintain water holdout properties and ensure performance of **Tyvek® Fluid Applied WB+™**. Use of additives, coatings or cleansers on or in the facade system may impact the performance of **Tyvek® Fluid Applied Products**. DuPont products are to be used as outlined in this installation guideline. **DuPont Self-Adhered Flashing Products** and **Tyvek® Fluid Applied Products** should only be used to seal penetrations and flash openings in buildings. Uncured **Tyvek® Fluid Applied Products must not** come in contact with **DuPont™ Tyvek® Mechanically-Fastened Air and Water Barrier Products** due to potential impact on performance properties. **DuPont Self-Adhered Flashing** and **Tyvek® Fluid Applied 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 weather barrier and exterior sheathing, high quality windows and doors, and appropriate flashing materials paying attention to proper installation of each component.

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

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

For complete warranty information please call 1-800-44-Tyvek or visit building.dupont.com.

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

43-D100679-enNA-0320

DUPONT™ Tyvek®

For more information about DuPont™ Tyvek® Fluid Applied Products, please call 1-800-448-9835 or visit us at building.dupont.com