DuPont™ Flashing Systems
Commercial Installation Guidelines

METHODS FOR SUPERIOR PROTECTION AGAINST AIR AND WATER INTRUSION

The miracles of science™
Table of Contents

Non-Flanged Aluminum Window.............................................................................................................................................. 4
Non-Flanged Aluminum Window with Lintel and Brick Façade.............................................................................................. 10
Brick Mold Window ................................................................................................................................................................ 18
Integral Flanged Aluminum Window ...................................................................................................................................... 24
Non-Flanged Aluminum Window using StraightFlash™ VF......................................................................................................... 30

Applicable Products

Flashing

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DIMENSIONS</th>
<th>AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ FlexWrap™</td>
<td>7 in x 75 ft</td>
<td>43.7 sq ft</td>
</tr>
<tr>
<td></td>
<td>9 in x 75 ft</td>
<td>56.2 sq ft</td>
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<tr>
<td></td>
<td>9 in x 250 ft</td>
<td>187.5 sq ft</td>
</tr>
<tr>
<td>DuPont™ StraightFlash™</td>
<td>4 in x 150 ft</td>
<td>50 sq ft</td>
</tr>
<tr>
<td></td>
<td>9 in x 125 ft</td>
<td>93.75 sq ft</td>
</tr>
<tr>
<td>DuPont™ StraightFlash™ VF</td>
<td>6 in x 125 ft</td>
<td>62.5 sq ft</td>
</tr>
</tbody>
</table>

Required Materials

- DuPont™ Flashing Systems
- DuPont™ Tyvek® Tape
- DuPont™ Tyvek® Wrap Caps or Approved Fasteners
- “J”-Roller
- Brushes for Surface Preparation

Primer recommendations:

- Denso butyl spray
- 3M HS90
- Perma grip 105
- ITW TACC Sta’Put SPH
- SIA 655 (approved for California)
**General Instructions**

DuPont™ FlexWrap™, DuPont™ StraightFlash™ and DuPont™ StraightFlash™ VF should be installed on clean, dry surfaces that are free of frost. Wipe surfaces to remove moisture, dirt, grease and other debris that could interfere with adhesion.

Apply pressure along entire surface for a good bond using a “J”-Roller.

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

Door and window rough sill framing must be level or slightly sloped to the exterior to ensure drainage to the exterior.

When flashing the sill area for windows and doors, DuPont recommends the use of 7” wide DuPont™ FlexWrap™ for 2x4 framing and 9” wide DuPont™ FlexWrap™ for 2x6 framing.

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

DuPont™ FlexWrap™, DuPont™ StraightFlash™ and DuPont™ StraightFlash™ VF perform best when installed at temperatures above 40°F (4°C).

Avoid placing DuPont™ Tyvek® Wrap Caps where flashing is to be installed. Only install DuPont™ Tyvek® Wrap Caps over flashing.

Priming is generally not required for adhering DuPont Flashing Products to most common building materials. However, adverse weather conditions or cold temperatures may require use of a primer to promote adhesion. Additionally, concrete, masonry, and fiber faced exterior gypsum board require the use of approved primers. Consult your local DuPont™ Tyvek® Specialist for primer recommendations and approved primers.

For additional guidelines and suggested approved sealants, please call 1-800-44-Tyvek (800-448-9835), visit our website at www.Construction.Tyvek.com, or consult your local DuPont™ Tyvek® Specialist.
Installation Methods for DuPont™ Flashing System
AFTER DuPont™ Tyvek® Weather Barrier is Installed

Non-Flanged Aluminum Window

Method applies to following products:
- DuPont™ StraightFlash™
- DuPont™ FlexWrap™

**STEP 1**
A. Cut rough opening in sheathing for window. Ensure that sheathing is cut flush with, or slightly below the sill framing to allow for positive drainage.

**STEP 2**
A. Wrap wall as shown in Installation Guidelines for DuPont™ Tyvek® Weather Barrier that can be found at www.Construction.Tyvek.com.

**STEP 3**
Prepare weather barrier for window installation.
A. Cut an opening in the DuPont™ Tyvek® Weather Barrier using a square cut around the perimeter of the rough opening.
B. Cuts should be made along the dashed indicated lines. (Ensure that the DuPont™ Tyvek® Weather Barrier is cut flush with the sheathing and is not wrapped into the rough opening.)
C. Cut a head flap at 45° angle to expose 8” of sheathing to allow for head flashing installation.
**STEP 4**
A. Flip the head flap up to expose the sheathing and temporarily secure with tape.
B. Temporarily secure DuPont™ Tyvek® Weather Barrier with DuPont™ Tyvek® Tape around rough opening before flashing is installed to help facilitate flashing installation.

**STEP 5**
A. Prepare the sill flashing by cutting a piece of DuPont™ FlexWrap™ that is at least twelve (12) inches longer than sill length. Use 7” DuPont™ FlexWrap™ for 2x4 framing and 9” DuPont™ FlexWrap™ for 2x6 framing.
B. Inspect installation surface to ensure surface is free of dirt or substances that could interfere with adhesion as well as any sharp protrusions.

**STEP 6**
A. Install the sill flashing. Remove the largest strip of release paper, align the flashing with the interior edge of sill, and install into rough opening across sill and up jambs (min 6”). Apply working from the middle of the sill towards the sides. Secure DuPont™ 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 7**

A. Remove second half of the release paper.
B. Fan DuPont™ FlexWrap™ at bottom corners and adhere onto face of wall.
C. Firmly press sill flashing to ensure full adhesion on all surfaces. Eliminate wrinkles and bubbles by smoothing surface and repositioning as necessary.

**STEP 8**

A. Use DuPont™ Tyvek® Wrap Cap fasteners to temporarily secure the outer edge of the flashing at the lower corners. (Self tapping Wrap Cap screws are recommended for steel stud framing.) Flashing bond will strengthen over time.

**STEP 9**

A. Wrap 9” DuPont™ StraightFlash™ into the rough opening at each jamb and onto wall face. The flashing should align with the interior edge of the jamb framing. Cut the jamb flashing the vertical length of the rough opening.
B. Jamb flashing should be long enough to overlap the sill flashing by at least 2” and be overlapped by future head flashing by at least 2”.

**STEP 10**

A. Spray the top of the jambs and exposed sheathing with approved primer.
**STEP 11**

A. Adhere DuPont™ FlexWrap™ to the head using the same installation process as shown in steps 6 and 7 for the sill flashing. Make sure the DuPont™ FlexWrap™ is cut long enough to overlap the jamb flashing by at least 2 inches.

B. Use DuPont™ Tyvek® Wrap Cap fasteners to temporarily secure the outer edge of the flashing at the upper corners. (Commercial Wrap Cap screws are recommended for steel stud framing.) Flashing bond will strengthen over time.

**STEP 12**

A. If angled caulk stops are used to contain perimeter sealant, they should be attached to window along side jambs and head prior to installation. The sill will be left open prior to window installation to allow for drainage of incidental moisture.

**STEP 12 – OPTIONAL**

Where buildings could be exposed to extreme weather conditions (i.e. sustained wind driven rain above 50 mph), install a high pressure skirt to help prevent water intrusion at the sill. Attach the high pressure skirt to the underside of the window prior to installing the window in opening.

A. Create the high pressure skirt by cutting a piece of DuPont™ Tyvek® Weather Barrier 1” wider than the width of window opening and approximately 10 inches in depth.

B. Attach skirt to underside of window using a piece of 4” DuPont™ StraightFlash™ cut to the same width as the skirt.
**STEP 13**
A. Install window per manufacturer installation instructions.

**STEP 14**
A. Create a continuous perimeter seal around 3 sides of the window with backer rod and approved sealant along the jambs and head.

B. **DO NOT APPLY APPROVED SEALANT ALONG THE BOTTOM OF THE SILL.** (This allows the sill pan, formed by DuPont™ FlexWrap™ to drain incident moisture.)

C. Secure sides of high pressure skirt to weather barrier with DuPont™ StraightFlash™ and skip tape bottom with DuPont™ Tyvek® Tape or 4" DuPont™ StraightFlash™. Skip taping provides weeps that allows drainage behind the skirt.

**STEP 15**
A. As a best practice for high exposure areas, install metal drip cap above the head joint when specified.

B. Apply a strip of 4" DuPont™ StraightFlash™ over the drip cap.
**STEP 16**

A. Flip down the head flap and adhere 4” DuPont™ StraightFlash™ over the diagonal seams.

B. Tape along the top of the window with DuPont™ Tyvek® Tape or 4” DuPont™ StraightFlash™.

C. Install remaining DuPont™ Tyvek® Wrap Caps at head per the recommended spacing (every 12” to 18” depending on the vertical stud line).

D. Install DuPont™ Tyvek® Wrap Caps at appropriate spacing over flashing and on skirt.

**STEP 17**

**Interior View**

A. Create a continuous perimeter seal with backer rod and approved sealant on window interior to resist air and water infiltration.

**STEP 18**

A. While the approved sealant is still wet, install an “L” shaped backdam cut the width of the rough opening so that it contacts the approved sealant bead and rear of window. Seal by applying approved sealant along 4 sides of the exposed backdam. OPTIONAL: Apply approved sealant along all four sides in lieu of backdam. Note: For alternate backdam see the Brick Mold Installation Guide. Steps 2 and 7, later in this document.

**STEP 19**

A. Install retention clips around the window to permanently secure it in the rough opening as recommended by window manufacturer to complete installation.
Non-Flanged Aluminum Window with Lintel and Brick Façade

Method applies to following products:
- DuPont™ StraightFlash™
- DuPont™ FlexWrap™

**STEP 1**

A. Cut rough opening in sheathing for window. Ensure that sheathing is cut flush with, or slightly below the sill framing to allow for positive drainage.

**STEP 2**

A. Wrap wall as shown in Commercial Installation Guidelines for DuPont™ Tyvek® Weather Barrier Systems that can be found at www.Construction.Tyvek.com.

**STEP 3**

A. Cut an opening in the DuPont™ Tyvek® Weather Barrier using a square cut around the perimeter of the opening.

B. Temporarily secure DuPont™ Tyvek® Weather Barrier with DuPont™ Tyvek® Tape around rough opening before flashing is installed to help facilitate flashing installation.

C. Prepare the sill flashing by cutting a piece of DuPont™ FlexWrap™ that is at least twelve (12) inches longer than sill length. Use 7” DuPont™ FlexWrap™ for 2x4 framing and 9” FlexWrap™ for 2x6 framing.

D. Inspect installation surface to ensure surface is free of dirt or substances that could interfere with adhesion as well as any sharp protrusions.
**STEP 4**
A. Install the sill flashing. Remove the largest strip of release paper, align the flashing with the interior edge of sill, and install into rough opening across sill and up jambs (min 6”). Apply working from the middle of the sill towards the sides. Secure DuPont™ 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 5**
A. Remove second half of the release paper.
B. Fan DuPont™ FlexWrap™ at bottom corners and adhere onto face of wall.
C. Firmly press sill flashing to ensure full adhesion on all surfaces. Eliminate wrinkles and bubbles by smoothing surface and repositioning as necessary.

**STEP 6**
A. Use DuPont™ Tyvek® Wrap Cap fasteners to temporarily secure the outer edge of the flashing at the lower corners. (Self tapping Wrap Cap screws are recommended for steel stud framing.) Flashing bond will strengthen over time.
**STEP 7**
A. Wrap 9” DuPont™ StraightFlash™ into the rough opening at each jamb and onto wall face. The flashing should align with the interior edge of the jamb framing. Cut the jamb flashing the vertical length of the rough opening.
B. Jamb flashing should be long enough to overlap the sill flashing by at least 2” and be overlapped by future head flashing by at least 2”.

**STEP 8**
A. Adhere DuPont™ FlexWrap™ to the head using the same installation process as shown in steps 6 and 7 for the sill flashing. Make sure the DuPont™ FlexWrap™ is cut long enough to overlap the jamb flashing by at least 2 inches.
B. Use DuPont™ Tyvek® Wrap Cap fasteners to temporarily secure the outer edge of the flashing at the upper corners. (Self tapping Wrap Cap screws are recommended for steel stud framing.) Flashing bond will strengthen over time.
C. Install DuPont™ Tyvek® Wrap Caps over flashing at recommended spacing.

**STEP 9**
A. Cut flap in the DuPont™ Tyvek® Weather Barrier.
B. Spray exposed sheathing with approved primer.
C. Install lintel on masonry as required.
**STEP 10**

A. Install corrosion resistant metal pan with drip and soldered/sealed end dams above lintel. Extend flashing beyond the end of lintel.

B. Install 9” wide strip of DuPont™ StraightFlash™ to bridge between the exterior sheathing and the metal pan flashing. Maintain a minimum of 3” contact between the DuPont™ StraightFlash™ and the primed exposed sheathing surface.

C. Cut a vertical slit in the DuPont™ StraightFlash™ to accommodate the vertical edge of the metal pan.

**STEP 11**

A. Install an additional layer of either 4” or 9” DuPont™ StraightFlash™ over the first layer of DuPont™ StraightFlash™ if necessary to achieve the 3” minimum contact to the exposed exterior sheathing. The overlap should be a minimum of 1”.

B. Anchor the non-corrosive metal sill pan flashing to the wall and integrate to the DuPont™ Tyvek® Weather Barrier with 4” DuPont™ StraightFlash™.

**STEP 12**

A. Fold head flap back into place

B. Tape along bottom edge of cut in DuPont™ Tyvek® Weather Barrier with DuPont™ StraightFlash™.

C. Use 4-inch wide by 16-inch long pieces of DuPont™ StraightFlash™ at diagonal cut in DuPont™ Tyvek® Weather Barrier to secure head flap.
**STEP 13**
A. Install remaining masonry with weeps along flashing.
B. Install window per manufacturer’s instructions.
C. Seal at perimeter of window. **DO NOT SEAL ANY WEEPS OF WINDOW FRAME.**

**STEP 14**

**Interior View**
A. Create a continuous perimeter seal with backer rod and approved sealant on window interior to resist air and water infiltration.

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**STEP 15**
A. While the approved sealant is still wet, install an “L” shaped backdam cut the width of the rough opening so that it contacts the approved sealant bead and rear of window. Seal by applying approved sealant along 4 sides of the exposed backdam. **OPTIONAL:** Apply approved sealant along all four sides in lieu of backdam. Note: For alternate backdam see the Brick Mold Installation Guide. Steps 2 and 7, later in this document.

**STEP 16**
A. Install retention clips around the window to permanently secure it in the rough opening as recommended by window manufacturer to complete installation.
JAMB DETAIL (Top View)

Note: For other CAD details visit www.Construction.Tyvek.com

- CAVITY SEAL INSERT
- ALTERNATE CAVITY SEAL
- MASONRY VENEER WITH AIRSPACE
- BACKER ROD AND SEALANT
- WINDOW FRAME
- FLEXIBLE CAVITY SEAL BONDED TO MASONRY AND DUPONT™ STRAIGHTFLASH™ (EXTEND CAVITY SEAL DOWN AND SEAL TO THE END DAM OF THE MASONRY SILL FLASHING; SEAL TO LINTEL AT TOP.)
- BACKER ROD AND SEALANT
- WINDOW ANCHOR SCREWED TO INTERIOR FRAMING AND BEDDED IN BUTYL SEALANT. ALSO, SEAL AROUND PERIMETER OF ANCHOR STRAP.
- 9" DUPONT™ STRAIGHTFLASH™ ADHERE TO INTERIOR VAPOR RETARDER (OR VICE VERSA, WHERE A VAPOR RETARDER IS REQUIRED).
SILL DETAIL (Side View)

WINDOW FRAME
THERMALLY IMPROVED SUBSILL

"L" SHAPED LIGHT GAUGE CORROSION RESISTANT METAL BACKGAM FULLY BEDDED IN SEALANT WITH FOLDED AND SEALED END DAMS

ADHERE DUPONT™ FLEXWRAP™ TO INTERIOR VAPOR RETARDER (OR VICE VERSA, WHERE VAPOR RETARDER IS REQUIRED)

3/4" BLOCKING

TURN UP DUPONT™ FLEXWRAP™ AND ACHERE TO BLOCKING

SEAL DUPONT™ FLEXWRAP™ TO WINDOW FRAME

ALTERNATE FLASHING DETAIL

SEAL TOP EDGE OF DUPONT™ STRAIGHTFLASH™ TO DUPONT™ TYVEK® WEATHER BARRIER WITH DUPONT™ TYVEK® TAPE

ADHERE DUPONT™ STRAIGHTFLASH™ TO DUPONT™ FLEXWRAP™ AND OVER BACK LEG OF FLASHING PAN

BACKER ROD AND SEALANT

SILL WITH ANCHORS (AS REQUIRED)

CORROSION RESISTANT FLASHING PAN WITH DRAIN AND SOLDERED/SEALED END DAMS

INTERIOR SUPPORT WINDOW SYSTEM AND SUBSILL AS REQUIRED

EXTERIOR
HEAD DETAIL (Top View)

- Masonry Veneer with Airspace
- Dupont™ Tyvek®
- 9" Dupont™ Straightflash™ extending 6" up behind Dupont™ Tyvek® Weather Barrier
- Dupont™ Straightflash™
- Adhere 9" Dupont™ Straightflash™ to gypsum sheathing, to Tyvek®, below slot, to steel lintel angle, and over back leg of flashing pan
- Backer rod to support Dupont™ Straightflash™ at gap between lintel and wall
- Corrosion resistant flashing pan with drip and soldered/sealed end dams
- Loose-laid steel lintel backer rod and sealant
- Adhere Dupont™ Flexwrap™ to interior vapor retarder (or vice versa, where vapor retarder is required)
- Backer rod and sealant as air seal
- Window frame
**Brick Mold Window**

This installation guide can also be used for windows with field applied nailing fins. Method applies to following products:

- DuPont™ StraightFlash™ VF
- DuPont™ FlexWrap™

**STEP 1**

Prepare DuPont™ Tyvek® Weather Barrier for window installation:

A. Make an “I-Cut” in the DuPont™ Tyvek® Weather Barrier (a modified I-Cut is also acceptable). For an “I-Cut” begin with a horizontal cut across the bottom and the top of the window frame (for round top windows, cut from the center cut straight down to the sill).

B. Cut two 45 degree slits a minimum of 8” from the corner of the header to create a flap above the rough opening to expose sheathing or framing members and to allow head flashing installation (see step 5). Flip head flap up and temporarily secure with DuPont™ Tyvek® Tape. Some windows and flashing widths may require longer slits due to window shape.

C. Fold side flaps into rough opening, cut excess flaps, and secure.

Note: Side flaps should cover interior facing framing stud.

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*Figure showing the installation process.*
**STEP 2**

A. Cut DuPont™ FlexWrap™ at least 12” longer than width of rough opening sill.

B. Fold to break perforation. Remove center piece of release paper. Cover horizontal sill leaving 1” of overhang on inside edge of sill for backdam, and adhere into rough opening along sill and up jambs (min. 6” on each side). Leave 1” overhang of release paper on DuPont™ FlexWrap™ inside rough opening to finish backdam after window installation.

C. Remove outer release paper.

D. Flex DuPont™ FlexWrap™ at bottom corners onto face of wall.

E. Secure edges of DuPont™ FlexWrap™ with mechanical fasteners (i.e., DuPont™ Tyvek® Wrap Cap nails or screws) along the bottom edge of the DuPont FlexWrap™ at flexed corners.)
**STEP 3**

A. Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least twelve (12) inches LONGER than the head length.

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

C. Center the flashing on the window head and position so that it contacts the window frame and interior side of the brick mold. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner where the brick mold attaches to the window frame.

D. Remove the inner release paper and adhere the flashing to the back of the brick mold and the window casing.

E. At the corner of the window frame, cut the DuPont™ StraightFlash™ VF along the corner at a 45° angle.

F. Fold it down flat against the brick mold.
**STEP 4**

A. Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least six (6) inches LONGER than the jamb.

B. Break the scored release paper on one side of the jamb flashing by folding it back and forth upon itself.

C. Position so that it contacts the window frame and interior side of the brick mold. Ensure that the jamb flashing is positioned 1-1/2 inch below the top edge of the head flashing. Jamb flashing adhesive must come in contact with head flashing adhesive and overlap by 1-inch.

D. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner.

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

F. At the corner of the window frame, cut the DuPont™ StraightFlash™ VF along the corner and fold it down flat to adhere against the head flashing.
**STEP 5**

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

B. Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere it to the DuPont™ Tyvek®.

C. Remove the release paper at the head and adhere it to the wall surface.

D. Optional: Cover exposed butyl with DuPont™ StraightFlash™ or DuPont™ Tyvek® Tape.

**STEP 6**

A. Cut a piece of metal or vinyl drip cap slightly longer than the window’s width and place a bead of approved sealant on the rear side. Install the drip cap tight against the window head and cover the top edge with DuPont™ StraightFlash™ or DuPont™ Tyvek® Tape.

B. Flip down upper flap of DuPont™ Tyvek® Weather Barrier so it lays flat across head flashing.

C. Tape along all cuts in DuPont™ Tyvek® Weather Barrier and tape across drip cap with DuPont™ Tyvek® Tape or 4” DuPont™ StraightFlash™.

D. Install DuPont™ Tyvek® Wrap Caps over flashing at recommended spacing.
**STEP 7**

Final Step

A. Seal around the window opening at the interior, using approved sealant (and backer rod as necessary). Approved sealant and backer rod will also serve as a back dam.

B. If backdam is desired, flip up 1" of DuPont™ FlexWrap™ and fasten corners to stud.
Integral Flanged Aluminum Window

Method applies to following products:

- DuPont™ StraightFlash™
- DuPont™ FlexWrap™

STEP 1
Prepare DuPont™ Tyvek® Weather Barrier for window installation:

A. Make an “I-Cut” in the DuPont™ Tyvek® Weather Barrier (a modified I-Cut is also acceptable). For an “I-Cut” begin with a horizontal cut across the bottom and the top of the window frame (for round top windows, the cut should begin 2” above the mull joint, see D). From the center cut straight down to the sill.

B. Cut two 45 degree slits a minimum of 8” from the corner of the header to create a flap above the rough opening to expose sheathing or framing members and to allow head flashing installation (see step 5). Flip head flap up and temporarily secure with DuPont™ Tyvek® Tape. Some windows and flashing widths may require longer slits.

C. Fold side flaps into rough opening, cut excess flaps, and secure.
**STEP 2**

A. Cut DuPont™ FlexWrap™ at least 12” longer than width of rough opening sill.

B. Remove the center piece of release paper, cover horizontal sill by overhang inside edge of sill by at least 1-inch for backdam, and adhere into rough opening along sill and up jambs (min. 6” on each side).

C. Remove second release paper.

D. Flex DuPont™ FlexWrap™ at bottom corners onto face of wall.

E. Secure edges of DuPont™ FlexWrap™ with mechanical fasteners (i.e., DuPont™ Tyvek® Wrap Cap nails, or screws) along the bottom edge of the DuPont FlexWrap™ at flexed corners).

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**Front View Corner Detail**

- **Correct:** No gap in corner
- **Wrong:** Window Jamb
  - DuPont™ FlexWrap™

**DIAGRAMS:**

- Sill Length: + 12 inches
- 1” Overhang
- Minimum: 6”
- DO NOT STRETCH

- Outer Release Paper
- Center Release Paper
- Release Paper for Backdam
- Fold to Break Scores

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**STEP 3**

A. Apply continuous bead of approved sealant at the window head and jambs to wall or back side of window mounting flange. **DO NOT APPLY APPROVED SEALANT ACROSS BOTTOM SILL FLANGE** to allow for drainage.

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**For Rectangular Windows**

**STEP 4**

A. Install window according to manufacturer’s instructions.

B. Cut two pieces of DuPont™ StraightFlash™ or DuPont™ FlexWrap™ for jamb flashing extending 1” above window head flange and 4” to 6” below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame.

C. Cut a piece of DuPont™ StraightFlash™ or DuPont™ FlexWrap™ for head flashing, which extends beyond outer edges of jamb flashings. Remove release paper and install completely covering mounting flange and adhering to exposed sheathing or framing members. (See C)
**STEP 5**
A. Flip down upper flap of DuPont™ Tyvek® Weather Barrier so it lays flat across head flashing.
B. Tape along all cuts in DuPont™ Tyvek® Weather Barrier and tape across head of the window with DuPont™ Tyvek® Tape or DuPont™ StraightFlash™.
C. Install DuPont™ Tyvek® Wrap Caps at appropriate spacing over flashing.

**STEP 6**
Final Step
A. Seal around the window opening at the interior, using approved sealant (and backer rod as necessary). Approved sealant and backer rod will also serve as a back dam.
B. If backdam is desired, flip up 1” of DuPont™ FlexWrap™ and fasten corners.
For Roundtop Windows (Integral Flange)

**STEP 4**

A. Install window according to manufacturer’s instructions.

B. Spray the top of the jambs and exposed sheathing with approved primer. Cut two pieces of DuPont™ StraightFlash™ or DuPont™ FlexWrap™ for jamb flashing extending 1” above window head flange and 4” to 6” below bottom edge of sill flashing. Remove release paper and press tightly along sides of window frame.

**STEP 5**

Install head flashing

A. Cut head flashing at least 12” longer than the arc length (H) of round-top window.

B. Remove both release papers and install to conform around top of window, covering entire mounting flange and adhering to exposed sheathing or framing members. Head flashing should overlap jamb flashings at least 6”.

C. Secure outer edges of head flashing using mechanical fasteners at studs, e.g. DuPont™ Tyvek® Wrap Caps (nails or screws).
**STEP 6**
A. Flip down upper flap of DuPont™ Tyvek® Weather Barrier so it lays flat across head flashing.
B. Tape along all cuts in DuPont™ Tyvek® Weather Barrier and across head of the window with DuPont™ Tyvek® Tape or DuPont™ StraightFlash™.

**STEP 7**
Final Step
A. Seal around the window opening at the interior, using approved sealant (and backer rod as necessary). Approved sealant and backer rod will also serve as a back dam.
B. If backdam is desired, flip up 1" of DuPont™ FlexWrap™ and fasten corners.
Non-Flanged Aluminum Window using StraightFlash™ VF

Method applies to following products:

- DuPont™ StraightFlash™ VF
- DuPont™ FlexWrap™

**STEP 1**
Prepate DuPont™ Tyvek® Weather Barrier for window installation:

A. Make an “I-Cut” in the DuPont™ Tyvek® Weather Barrier (a modified I-Cut is also acceptable). For an “I-Cut” begin with a horizontal cut across the bottom and the top of the window frame. From the center cut straight down to the sill.

B. Cut two 45 degree slits a minimum of 8” from the corner of the header to create a flap above the rough opening to expose sheathing or framing members and to allow head flashing installation (see step 5). Flip head flap up and temporarily secure with DuPont™ Tyvek® Tape. Some windows and flashing widths may require longer slits.

C. Fold side flaps into rough opening, cut excess flaps, and secure.

Note: Side flaps should cover interior facing framing stud.
STEP 2
A. Cut DuPont™ FlexWrap™ at least 12" longer than width of rough opening sill.
B. Remove the center piece of release paper, cover horizontal sill by overhang inside edge of sill by at least 1-inch for backdam, and adhere into rough opening along sill and up jambs (min. 6" on each side).
C. Remove second release paper.
D. Flex DuPont™ FlexWrap™ at bottom corners onto face of wall.
E. Secure edges of DuPont™ FlexWrap™ with mechanical fasteners (i.e., DuPont™ Tyvek® Wrap Cap nails, or screws) along the bottom edge of the DuPont FlexWrap™ at flexed corners.)
STEP 3

A. Prepare head flashing by cutting a piece of DuPont™ StraightFlash™ VF at least twelve (12) inches LONGER than the head length. Before flashing, prime window fins and casings with approved primer.

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

C. Center the flashing on the window head and position so that it contacts the window frame and interior side of the front flange. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner.

D. Remove the inner release paper and adhere the flashing to the back of the aluminum window fin and casing.

E. At the corner of the window frame, cut the DuPont™ StraightFlash™ VF along the corner at a 45° angle.

F. Fold it down flat.
**STEP 4**

A. Prepare jamb flashing by cutting a piece of DuPont™ StraightFlash™ VF at least six (6) inches LONGER than the jamb.

B. Break the scored release paper on one side of the jamb flashing by folding it back and forth upon itself.

C. Position the flashing so that it contacts the window frame and interior side of the aluminum window fin. Ensure that the jamb flashing is positioned 1-1/2 inch below the top edge of the head flashing. Jamb flashing adhesive must come in contact with head flashing adhesive and overlap by 1-inch.

D. Remove the outer release paper and adhere the flashing to the window frame. Use the inner release paper to form a tight seal in the corner.

E. Remove the inner release paper and adhere the flashing to the back of the aluminum window fin.

F. At the corner of the window frame, cut the DuPont™ StraightFlash™ VF along the corner and fold it down flat to adhere against the head flashing.

G. Install 2” x 4” DuPont™ FlexWrap™ patch in each corner.
STEP 5
A. Install window according to manufacturer’s installation instructions.
B. Spray the top of the jambs and exposed sheathing with approved primer. Remove the remaining release paper from the DuPont™ StraightFlash™ VF jamb flashing and press firmly to adhere it to the DuPont™ Tyvek® Weather Barrier.
C. Remove the release paper at the head and adhere it to the wall surface.
D. Optional: Cover exposed butyl with DuPont™ StraightFlash™ or DuPont™ Tyvek® Tape.
**STEP 5 – OPTIONAL**

Where buildings could be exposed to extreme weather conditions (i.e. sustained wind driven rain above 50mph), install a high pressure skirt to prevent water intrusion at the sill. Attach the high press skirt to the underside of the window prior to installing the window in opening.

A. Create the high pressure skirt by cutting a piece of DuPont™ Tyvek® Weather Barrier 1” wider than the width of window opening and approximately 10 inches in depth.

B. Attach skirt to underside of window using a piece of 4” DuPont™ StraightFlash™ cut to the same width as the skirt.

**STEP 6**

A. Cut a piece of metal or vinyl drip cap slightly longer than the window’s width and place a bead of approved sealant on the rear side. Install the drip cap tight against the window head and cover the top edge with DuPont™ StraightFlash™ or DuPont™ Tyvek® Tape.

B. Flip down upper flap of DuPont™ Tyvek® Weather Barrier so it lays flat across head flashing.

C. Tape along all cuts in DuPont™ Tyvek® Weather Barrier and tape across drip cap with DuPont™ Tyvek® Tape or 4” DuPont™ StraightFlash™.

D. Install DuPont™ Tyvek® Wrap Caps over flashing at recommended spacing.
**STEP 7**
A. Secure DuPont™ StraightFlash™ VF with DuPont™ Tyvek® Wrap Caps or approved fasteners.
B. Install DuPont™ WrapCaps through the skirt.
C. Secure sides of high pressure skirt to weather barrier with DuPont™ StraightFlash™ and skip tape bottom with DuPont™ Tyvek® Tape or 4" DuPont™ StraightFlash™. Skip taping provides weeps that allows drainage behind the skirt.

**STEP 8**
Final Step
A. Seal around the window opening at the interior, using approved sealant (and backer rod as necessary). Approved sealant and backer rod will also serve as a back dam.
B. If backdam is desired, flip up 1" of DuPont™ FlexWrap™ and fasten corners.
STEP 9
A. Install retention clips around the window to permanently secure it in the rough opening as recommended by window manufacturer to complete installation.
**Technical Specifications**

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

DuPont™ Flashing Systems products are made from a synthetic rubber adhesive and a laminate of polyethylene film, elastic fiber, synthetic rubber adhesive, polyurethane adhesive, and a top sheet of flash spunbonded high density polyethylene fibers. Additives have been incorporated into these materials to help provide ultraviolet light resistance. DuPont requires that DuPont™ Flashing Systems products be covered within four months (120 days) of installation.

**Warning**

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

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

**Note**

When installed in conjunction with other building materials, DuPont™ Flashing Systems products must be properly shingled with these materials, such that water is diverted to the exterior of the wall system. DuPont™ Tyvek® products are weather barriers not the primary water barrier. The outer facade is the primary barrier. Contamination of any DuPont™ Tyvek® Weather Barriers and building papers with building site chemicals which increase their wettability (e.g., surfactants) will adversely affect their water resistance and therefore, their contribution to the overall water resistance of the wall system. DuPont™ Tyvek® Weather Barrier System products are to be used as outlined in this installation guideline. DuPont™ Flashing Systems products are not suggested for use on roof windows. For superior protection against bulk water penetration DuPont suggests a system combining a quality exterior facade, a good secondary weather barrier and an exterior sheathing, appropriate flashing materials and details; and high quality windows and doors with particular attention to proper installation of each component. In a system where no exterior sheathing is used and DuPont™ Tyvek® Weather Barrier is installed directly over the wall studs, exterior facade materials should be selected to ensure maximum protection against water intrusion. Careful workmanship and proper installation of each component is very important.

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

For complete warranty information please see the full Warranty at www.Construction.Tyvek.com. To submit a warranty claim, please contact DuPont at www.Construction.Tyvek.com or call 1-800-44-Tyvek. Warranty coverage requires submission of proof of purchase of the DuPont™ Tyvek® Weather Barrier at issue. This information is not intended to be used by others for advertising, promotion or other publication for commercial purposes.

For more information about DuPont™ Tyvek® Weather Barrier System products, please call 1-800-44-Tyvek or visit us at www.Construction.Tyvek.com