

WEATHERMATE™ Sill Pan

WEATHERMATE™ Sill Pan is a translucent, molded polymer sill pan for flashing the base of windows. Its molded design features front flashing that extends approximately 3" below the rough opening sill and approximately 3" outward from the corner of the rough opening sill (as shown at right) to protect this critical area from water intrusion.

The backdam protects against water intrusion and is designed according to ASTM E2112 guidelines. If the backdam requires modification, GREAT STUFF™ Pro Window & Door insulating foam sealant should be applied between the backdam and interior drywall. This minimal-expanding, low pressure-build sealant blocks wind-driven rain from entering this area. In this case, the backdam serves as a secondary defense.

The innovative two-piece construction can be adjusted to fit most window sill widths, providing a continuous shield against water infiltration, even in sill corners.

For features and benefits of WEATHERMATE Sill Pan, refer to Table 1.

For quick answers, see "Frequently Asked Questions" on page 4.

PROPERTIES

WEATHERMATE™ Sill Pan is sold as a two-piece assembly that includes a right-corner piece and a left-corner piece. The integrated corner design

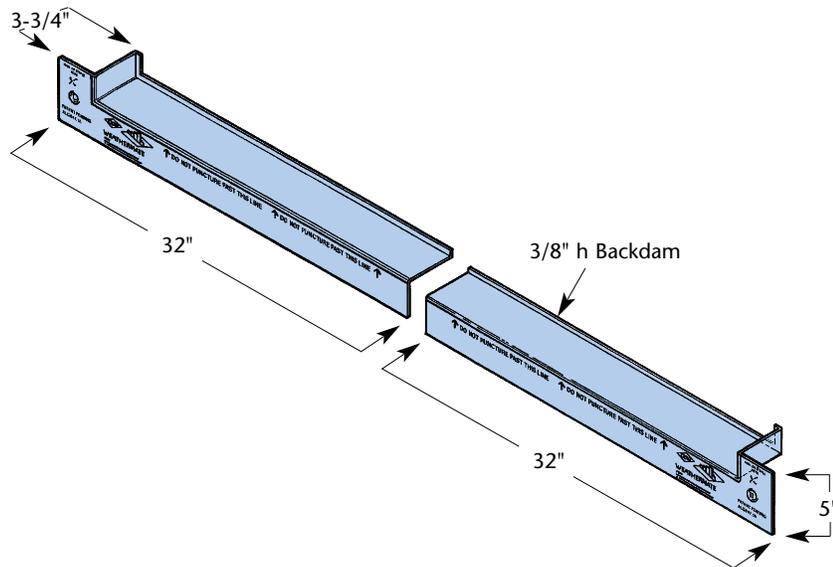


TABLE 1

Features and Benefits of WEATHERMATE™ Sill Pan	
Feature	Benefit
Molded PVC polymer	<ul style="list-style-type: none"> • Manufactured to ensure a consistent thickness • Conforms to window openings • Assists positive drainage of water to the exterior • Will not rust or rot • Compatible with standard adhesives and sealants • Installed at temperatures as low as 0°F
Two-piece design	<ul style="list-style-type: none"> • Adjustable to fit most window sill widths
Seamless backdam	<ul style="list-style-type: none"> • Provides an extra barrier if water finds its way to the back of the sill
Compatible with WEATHERMATE™ Flashings	<ul style="list-style-type: none"> • WEATHERMATE Flashings at center seam and on sides help ensure protection against leaks

provides another layer of protection against water intrusion. And the two pieces facilitate easy adjustment to fit most window sill widths. Note: WEATHERMATE Sill Pan works best when the window sill is sloped to the exterior. Shims, as

recommended by window manufacturer, should be placed underneath WEATHERMATE Sill Pan.

DIMENSIONS

5" h x 3-3/4" d x 32" w;
3/8" h backdam (each piece)

Installation

WEATHERMATE™ Sill Pan offers quick, easy installation and provides a cost-effective way to minimize the risk of water-related sill damage.

Step 1:

Position one piece of WEATHERMATE™ Sill Pan along the base of window rough opening, lapping over weather-resistant barrier or sheathing (Figure 1).

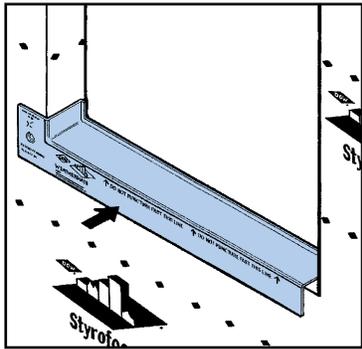


Figure 1

Step 2:

Press firmly against corner of window opening. Nail or staple in place, following embossed instructions on product (Figure 2).

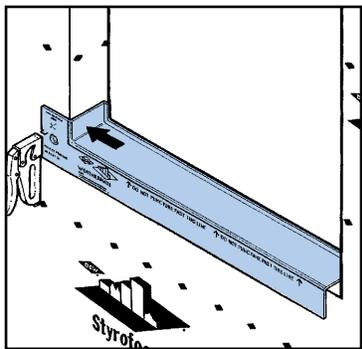


Figure 2

Step 3:

Position second piece, overlapping first piece by a minimum of 2". Press second piece firmly into corner of window opening. Nail or staple in place, following embossed instructions on product (Figure 3).

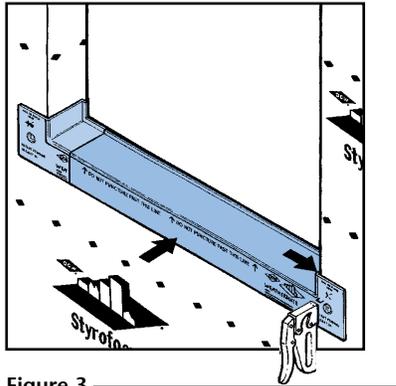


Figure 3

For window openings wider than 5', install WEATHERMATE™ Sill Pan in corners, then cut the corner off a third piece, taking care not to damage the backdam. Center this straight length over the two corner pieces, overlapping each side a minimum of 2".

Step 4:

Seal overlap seam and top edge of corner pieces with WEATHERMATE™ Flashing, as shown (Figure 4).

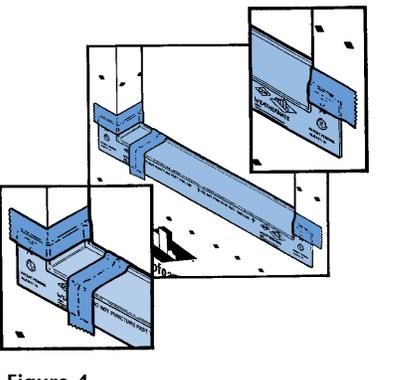


Figure 4

Install and flash window according to manufacturer instructions.

Step 5:

Air-seal windows around entire interior perimeter (the gap between the window framing and structural members) with GREAT STUFF™ Pro Window & Door insulating foam sealant (Figure 5), which protects against air infiltration and water penetration. GREAT STUFF Pro Window & Door contains isocyanate, hydrofluorocarbon or hydrocarbon blowing agent and polyol. Read the Material Safety Data Sheet carefully before use. Wear protective clothing, gloves and goggles and provide adequate ventilation and/or wear respiratory protection.



Figure 5

GREAT STUFF™ Pro Window & Door insulating foam sealant features a minimal-expanding, pliable formulation that won't bow windows and doors, when installed properly.

SHALLOW-DEPTH WINDOW UNIT (less than 3.75" deep)

WEATHERMATE™ Sill Pan is easily modified to accommodate a variety of window depths, such as a vinyl window with a decorative interior sill and/or drywall return. If the height of the backdam requires modification, it should be cut off directly at the back of the window (Figure 6 inset).

Seal this area and entire interior perimeter with GREAT STUFF™ Pro Window & Door (Figure 6). Trim any overfill with a utility knife or simply press cured overfill into gap.

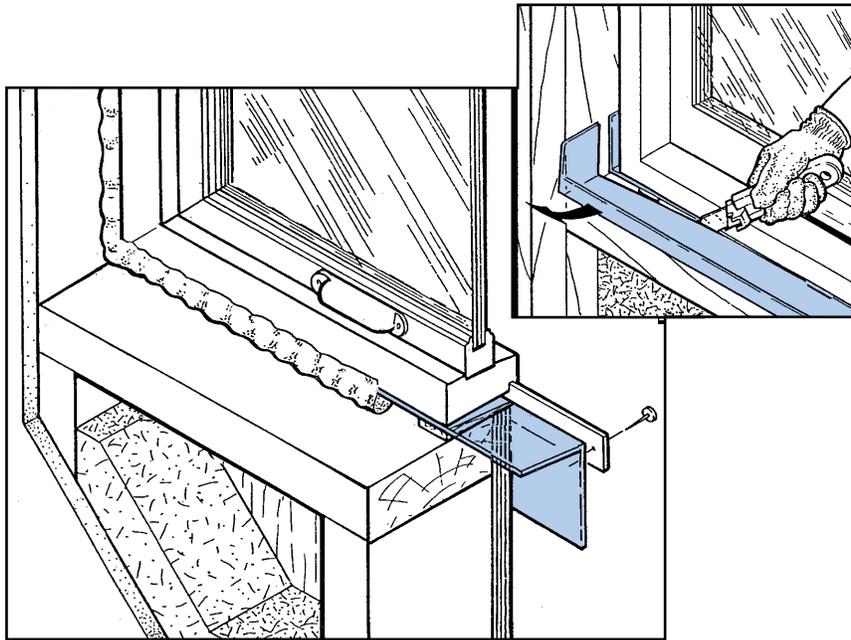


Figure 6

FULL-DEPTH WINDOW UNIT (greater than 3.75" deep)

Window manufacturers typically recommend a gap of 3/8" to 1/2" between the rough opening and window frame as well as the use of shims to slope the sill to the exterior. With a backdam height of 3/8", WEATHERMATE™ Sill Pan should not disturb the window frame. It is also easy to insert shims under the sill pan.

The 3-3/4" depth of WEATHERMATE Sill Pan allows for an air-sealing space between the backdam and interior dry-wall. Seal this area and entire interior perimeter with GREAT STUFF™ Pro Window & Door (Figure 7). Trim any overfill with a utility knife or simply press cured overfill into gap.

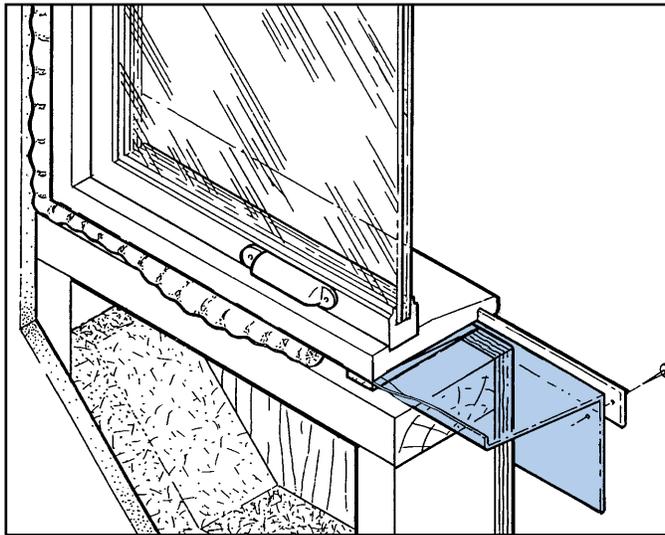


Figure 7

Frequently Asked Questions About WEATHERMATE™ Sill Pan

Q. *How do I install WEATHERMATE™ Sill Pan?*

A. For instructions, refer to this information sheet, contact your Dow representative, read product packaging and embossed instructions on product, or visit www.dow.com/styrofoam/na/res-us/products/sill_pan.htm.

Q. *What type of material is WEATHERMATE™ Sill Pan composed of?*

A. Rigid PVC.

Q. *Is WEATHERMATE™ Sill Pan compatible with currently available flashings, window seal caulks and low-pressure foams?*

A. Yes; however, Dow recommends the use of WEATHERMATE™ Flashings and GREAT STUFF™ Pro Window & Door insulating foam sealant.

Q. *Can WEATHERMATE™ Sill Pan be used on window and door sills?*

A. No. Dow recommends that WEATHERMATE Sill Pan only be used on window sills.

Q. *Is cement adhesive needed to connect a corner piece to the horizontal run of sill pan?*

A. No. The WEATHERMATE™ Sill Pan two-piece assembly has a left-corner piece and a right-corner piece that fit a rough opening of 5' maximum (refer to installation instructions if a wider opening is desired). The corners are seamlessly molded along with the horizontal sill section to ensure that this area

is protected from water damage. Other systems may require that glue be applied to the corners of the sill section, relying on the installer to apply the correct amount of adhesive to result in performance as claimed.

Q. *What part of WEATHERMATE™ Sill Pan can I fasten through during installation?*

A. The left- and right-corner pieces of WEATHERMATE Sill Pan are embossed with exact markings for fastener placement. If the bottom nailing flange on the window is to be fastened to the wall, the fastener may be attached through the sill pan's front lip that sits over the face of the exterior sheathing.

Q. *Is WEATHERMATE™ Sill Pan designed with a built-in slope to the exterior of the window rough opening?*

A. No. Dow recommends that the window sill be sloped to the exterior to allow for positive drainage of any incidental water that may find its way under the sill pan. One example of how this may be achieved is with the use of shims placed underneath the pan as recommended by the majority of window manufacturers. It is important to follow window manufacturer shimming requirements for proper window installation.

Q. *Can WEATHERMATE™ Construction Tape be used in place of flashings during installation?*

A. No. As outlined in the installation instructions, Dow recommends that WEATHERMATE™ Flashings be used in this critical performance area.

Q. *Is WEATHERMATE™ Sill Pan offered in various depths to accommodate different window depths?*

A. No. The simple design of WEATHERMATE Sill Pan, used in combination with GREAT STUFF™ Pro Window & Door insulating foam sealant, creates a system that is easily adjusted to fit almost any window installation application. Additionally, this cost-effective approach eliminates the need to keep many different products at the job site. The installation instructions provide more details on using WEATHERMATE Sill Pan and GREAT STUFF Pro Window & Door insulating foam sealant.

Q. *Why is it critical to use GREAT STUFF™ Pro Window & Door insulating foam sealant around the interior perimeter of the window rough opening?*

A. According to the Energy and Environmental Building Association's Water Management Guide, "All windows and doors should be air sealed around their entire perimeters on the interior with sealant or non-expanding foam. The air seal around the entire perimeter of the window interior provides for pressure equalization across the unsealed bottom flange of the window."* Dow recommends the use of GREAT STUFF Pro Window & Door, which conforms to the American Architectural Manufacturers Association 812-04 Standard at 0.08 psi pressure-build (gun foam). The use of GREAT STUFF Pro Window & Door provides a minimal-expanding air seal and acts as a water backdam if the WEATHERMATE™ Sill Pan backdam was modified during installation.

Q. *What is the purpose of the 3/8" high backdam on WEATHERMATE™ Sill Pan?*

A. The backdam resists the flow of water to the sill's interior in the event that wind-driven rain penetrates the exterior weather-resistive barrier (WRB)/flashing system. It is recommended that GREAT STUFF™ Pro Window & Door is used rather than relying on the backdam alone.

Q. *Will I need to modify WEATHERMATE™ Sill Pan to accommodate a shallow-depth window, such as a vinyl window, in order to install a decorative interior sill and/or a drywall return?*

A. If on-site modification of the product is needed due to the height of the backdam, then the sill pan should be cut off directly at the back of the window and GREAT STUFF™ Pro Window & Door placed at this location. Due to its pliable formulation, any overfill can be trimmed with a utility knife. It is important to follow the final step in the installation instructions – air-sealing the entire interior perimeter of the window.

Q. *Will I need to modify WEATHERMATE™ Sill Pan to accommodate a wood window since the sill pan is not deep enough for the window to sit in the pan completely?*

A. Window manufacturers require that a gap be detailed between the rough opening and the window once installed. Typically this gap ranges from 3/8" to 1/2". The WEATHERMATE Sill Pan backdam is 3/8" high; therefore, the window frame should not disturb the sill pan backdam. Due to the necessity to shim the window up from the sill at key points along the sill, the shims should be provided underneath WEATHERMATE Sill Pan. This may force the backdam to be pressed between the shims and the bottom of the window, which is acceptable. The 3.75" depth of the pan allows for a space between the backdam and the interior drywall sufficient for air-sealing material placement. It is important to follow the final step in the installation instructions – air-sealing the entire interior perimeter of the window.

Q. *Who should I contact if I have more questions regarding the installation and/or function of this product?*

A. Please contact Dow at 1-866-583-BLUE (2583).

IN THE U.S.:

- For Technical Information: **1-866-583-BLUE (2583)**
- For Sales Information: **1-800-232-2436**

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NOTE: Dow polyurethane foam sealants and adhesives contain isocyanate, hydrofluorocarbon or hydrocarbon blowing agent and polyol. Read the Material Safety Data Sheet carefully before use. Wear protective clothing, gloves and goggles and provide adequate ventilation and/or wear respiratory protection.

Building and/or construction practices unrelated to insulation could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.

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