
Introduction

Polyken® and Nashua® Flashing Tapes

Self Adhering Flashing (SAF) is the generic term used to describe a flexible, sheet membrane products with a self-adhering adhesive used for waterproofing purposes in building construction.

SAF products are used for general building envelope flashing purposes which can include above grade walls, window and door openings, skylights and roofing.

The net thickness for SAF can vary from 20 mil to 60 mil. The 40 mil and 20-25 mil thicknesses are the two general products used typically.

Where a single strip or piece of SAF can be used, the 40 mil thickness is recommended. Where multiple layers may cause an unwanted build-up of thickness that interferes with other construction tolerances, then the 20-25 mil product can be used.

Butyl versus Asphalt

There are two basic types of adhesive used for self adhering flashings—SBS asphalt and butyl. Asphalt is cheaper than butyl so may be selected where material cost alone is deemed critical.

Butyl performs with a wider range of in-service temperatures (-35°F - 200°F). Asphalt can bleed with high or prolonged heat exposure. Butyl typically has better initial and long-term substrate adhesion than asphalt.

Butyl rubber adhesive contains no volatile organic compounds (VOC), thus the adhesive system does not react with

caulking and sealants typically used in conjunction with flashing tapes.

SBS asphalt adhesive formulations contain VOCs that can react chemically with the solvents used in caulking and sealants causing both materials to break down and flow.

Reference Manual

This product publication can serve as a complete reference for the specification, detailing, and installation of Polyken® and Nashua® Flashing Tapes. Each section is independent and can be used as a separate document to meet specific needs.

This publication has been developed as a practical and useful technical reference for the building construction industry. The publication includes several sections: a Product Data sheet for designers and building owners; Application Guides for builders; Details for designers; Sequence Diagrams for installers; and a Guide Specification for specifiers.

Product Data Sheet

The product data follows the CSI Spec-Data format. It is intended as a reference of material and performance information for Polyken® and Nashua® Flashing Tapes.

Application Guides

Two application guides exist for Polyken® and Nashua® Flashing Tapes. One is a general flashing guide and the other is a specific guide for flashing windows, doors and skylights.

General Flashing

The general flashing application guide outlines the use of Polyken® and Nashua® Flashing Tapes as a multi-purpose flashing membrane for building construction needs. Guidance for installing Polyken® and Nashua® Flashing Tapes with different techniques is provided.

Windows, Doors and Skylights

The Window/Door/Skylight application guide covers the different types of window/door frame materials and different wall cladding materials, such as, stucco, wood and vinyl sidings. The flashing procedures in the details and sequence diagrams are not specific to a particular window/door/skylight product nor are they restricted to particular wall cladding materials. This application guide notes how to handle the unique features that vary from product to product for different window/door frames and wall cladding types.

Flashing Details

The Flashing Details section provides a consistent format for details. The detail pages include a reference diagram of a door, window or skylight with detail section cuts shown for the top, sides and bottom. Detail sections are the standard format used on building plans to show construction assemblies. The flashing details are intended as a reference for designers.

The window/door details address nail-on or flanged frames. Flashing block frames (non-finned) are briefly addressed in the Polyken® and Nashua® General Flashing Application Guide (see Part 3).

The flashing details for windows, doors and skylights shown are for frame construction and substrates.

Windows/Doors

The ASTM E2112-07 Standard Practice for the Installation of Windows, Doors and Skylights describes four methods of applying flashing strips to windows and doors. These methods are A, B, A1 and B1.

Method A

Jamb flashing applied over the window/door frame. Building paper is used as the weather-resistant barrier and is applied after the window/door installation.

Method A1

Jamb flashing applied over the window/door frame. Building paper or house wrap is used as the weather-resistant barrier and is applied before the window/door installation.

Method B

Jamb flashing applied under the window/door frame. Building paper is used as the weather-resistant barrier applied after the window/door installation.

Method B1

Jamb flashing applied under the window/door frame. Building paper or house wrap is used as the weather-resistant barrier applied before the window/door installation.

Within the ASTM Standard, Methods A & A1 refer to the use of self-adhering, flexible membranes as an alternative to conventional paper-based flashings. In this publication, Methods A & A1 are shown using Polyken® and Nashua® Flashing Tapes as the primary flashing material.

The ASTM standard for Methods B & B1 around building opening perimeters is not shown in this reference. Methods B & B1,

follow conventional flashing procedures, where the perimeter flashing is applied before the window or door frame. Polyken® and Nashua® flashing tapes can be used in Methods B & B1, if the ASTM standard is followed.

In addition to the ASTM flashing methods, this publication includes an alternate flashing method which has been designated Method SAF. This window/door flashing procedure takes best advantage of the use of Polyken® and Nashua® Flashing tapes.

Method SAF is not illustrated in the ASTM standard, but is based on a combination of ASTM Methods A plus Method B. Polyken® and Nashua® Flashing Tapes can be used instead of sealant under the fin around the opening, as required with the ASTM Methods A, A1, B & B1. Method SAF eliminates the need to use sealant and is less messy for installers. However, the use of sealant under Nail-Fin installations decreases the risk of leakage due to workmanship or material variability.

Skylights

There are four types of skylights categorized by the ASTM E2112 Standard. All of these skylight types have one flashing method which relies on roofing mastic to seal the skylight frame to the roof substrate. This publication presents another flashing method using Polyken® and Nashua® Flashing Tapes instead of mastic to seal the perimeter opening. The ASTM standard neglects to mention the use of flexible, self-adhering membranes for skylight flashings, although they are commonly used by roofers and builders for roof flashing purposes.

Flashing Sequence Diagrams

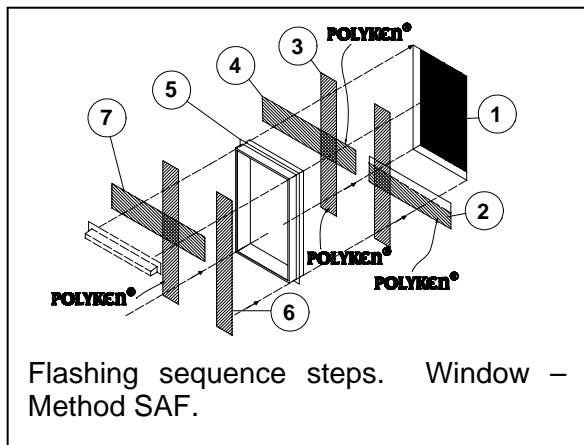
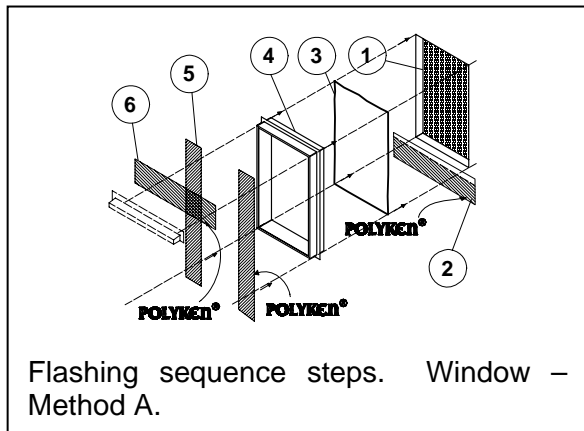
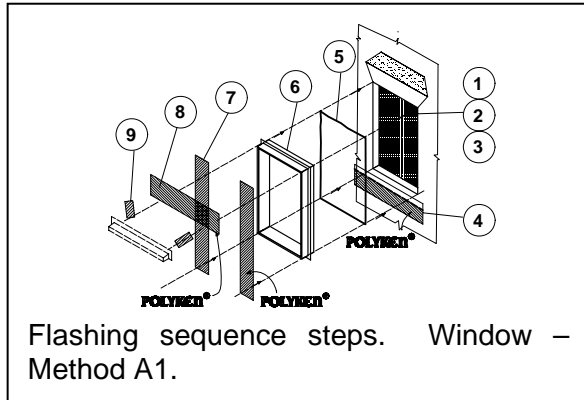
In order to assist the installer in how to flash building openings, this Polyken® and

Nashua® application guide presents step-by-step flashing sequence diagrams. The flashing sequence diagrams show how to install a window, door or skylight with matching descriptions. All of the methods of flashing are shown with each flashing detail.

An introductory exploded view shows all the materials that go into flashing the typical opening. This overall view of the parts of the flashing assembly provides a quick way of comparing methods. The materials used in the flashing assembly and the differences in the application sequences can be used as a basis for the selection of the flashing method.

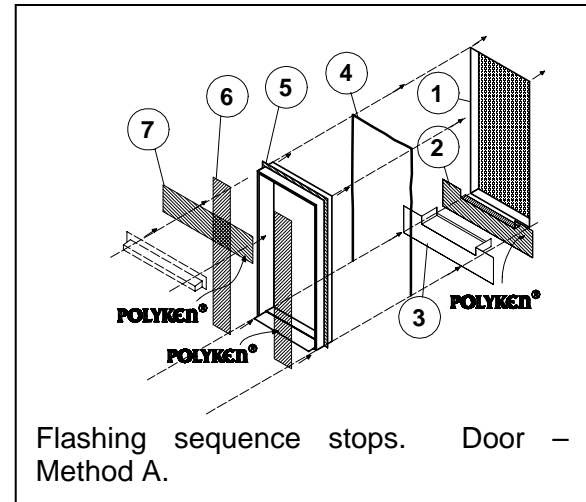
Window Flashing

Self adhering flashing (SAF) can be used in all the ASTM E2112 methods. In addition, SAF can be used uniquely in the method SAF shown, which combines Methods A + B or Methods A1 + B1.

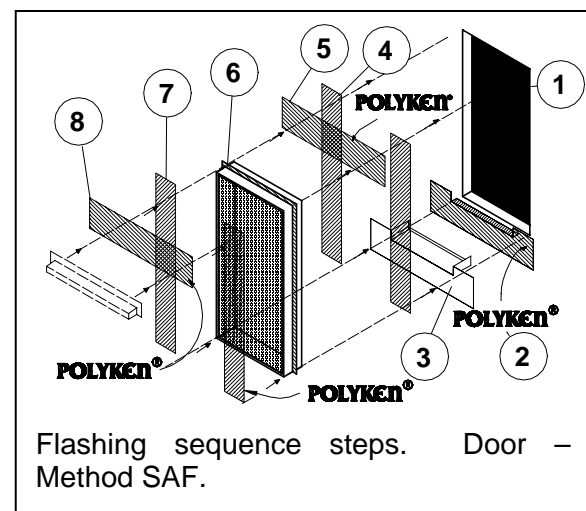


Door Flashing

Self adhering flashing (SAF) can be used in all the ASTM E2112 methods. In addition, SAF can be used uniquely in method SAF shown which combines Methods A + B or Methods A1 + B1

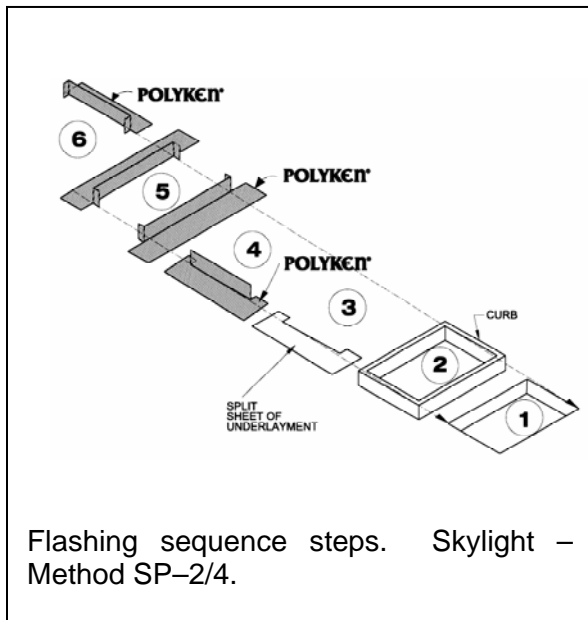
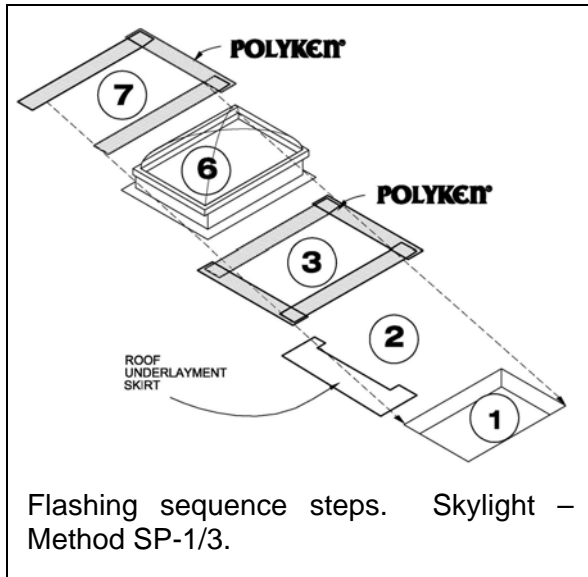


Methods B, A1 & B1 are similar to the window flashing.



Skylight Flashing

There are four types of skylights designated by ASTM E2112. Self adhering flashing can be used for all types of skylights. Two methods shown here are suitable for two pairs of skylights types.



Method SP-1/3 applies to skylight types 1 and 3. Method SP-2/4 applies to skylight types 2 and 4.

See Manual Section 5.13 for skylight flashing details.

Guide Specification

The guide specification provides detailed recommendations for both the 35 mil and 20 mil Polyken® and Nashua® Flashing Tape products. This guide specifications can be utilized to prepare architects' or designers' specifications whenever project specifications are provided as part of a set of building design documents.

Disclaimer

The information contained in this publication is intended as a reference for architects, designers, and contractors outlining the application of Polyken® and Nashua® Flashing Tapes for use as perimeter flashing around windows, doors and skylights.

Specific products, building construction, and particular project conditions vary and may require changes in flashing techniques and selection of products. Final decisions on the use of this information are not the responsibility of Covalence Adhesives.

This publication does not intend to supersede or be used in lieu of project-specific requirements issued by design professionals, building regulations, or product manufacturers.

This information should be recognized as recommendations which, if followed with professional judgment, should result in successful performance.