

**Polyken® and Nashua® Flashing Tapes**

Self-adhering flashings are building industry products developed for windows, doors and skylights over the last 20 years. Their use started with membrane roofing underlayment protection and wrapping tapes for utility piping. They became recognized by builders as adaptable and versatile flashing materials for other building envelope locations.

Specification sections have recognized the traditional sheet metal flashing material in CSI\* designated Section 07620 Sheet Metal Flashing & Trim. Contemporary flashing materials which include self-adhering flashing, as well as paper-based (asphalt-saturated kraft paper) and polymeric materials (housewrap), can be incorporated into Section 07650 Flexible Flashings.

Another specification option is to designate a unique self-adhering flashing section, e.g., 07660 Self Adhering Flashings. Section 07660 is not a specific section currently identified by CSI, but is consistent with the CSI organization system (1995 Master Format).

Specifications prepared with the 2004 CSI Master Format would be designated by 07-0650 for Flexible Flashings or 07-7660 for Self-Adhering Flashings.

Specification Title	CSI Section #	
	1995 Master Format	2004 Master Format
Flexible Flashings	07650	07-0650
Self-Adhering Flashing	07660	07-0660

There is also the specification option of placing flashing material specifications with their associated use for different building materials and separate construction sections. Therefore, specification sections for windows, doors, roof coverings and various wall claddings could have appropriate paragraphs included which outline the type and use of self-adhering flashing.

The following guide specification is based on the 1995 Master Format Section 07650 Flexible Flashings.

**Specifier’s Note: This guide specification is not intended to be used word-for-word for any particular project. Specific installation procedures and instructions must be developed for each individual project. Berry Plastics does not warrant that this guide specification can be considered applicable under all conditions.**

\* Construction Specifications Institute, 1995 Master Format

## Section 07650

## Flexible Flashings

**Specifier's Note: Edit guide specification content and format to suit the particular project. These specifications presume use with wood-frame construction and substrates.**

## PART 1 – GENERAL

## 1.01 SUMMARY

- A. Section includes: Installation of flexible, self-adhering flashing membrane consisting of, but not limited to, the sealing and flashing of above-grade building areas needing protection against water intrusion.
- B. Related Work
  - 1. Section 06100 — Rough Carpentry
  - 2. Section 07260 — Vapor Retarders (Weather-Resistant Barriers)
  - 3. Section 07270 — Air Barriers
  - 4. Section 07620 — Sheet Metal Flashing and Trim
  - 5. Section 07900 — Joint Sealers
  - 6. Section 08050 — Basic Door and Window Materials and Methods
  - 7. Section 08500 — Windows
  - 8. Section 08600 — Skylights

**Specifier's Note: Edit the above sections as required to conform to specific project.**

## 1.02 REFERENCES

- A. ASTM — American Society for Testing and Materials
  - 1. D 142-97 Test Methods for Sampling and Testing Bitumen – Saturated Felts and Woven Fabrics for Roofing and Waterproofing
  - 2. D 412-97 Test Methods for Rubber Properties in Tension
  - 3. D 903-93 Test Methods for Peel or Stripping Strength of Adhesive Bonds
  - 4. D 3767-96 Practice for rubber – Measurement of Dimensions

- 5. E 96-94 Test Methods for Water Vapor Transmission of Materials
- 6. E-2112-07 Standard Practice for Installation of Exterior Windows, Doors, and Skylights
- B. AAMA – American Architectural Manufacturers Association
  - 1. IM-TM – Installation Masters Training Manual, June 2000
  - 2. 711-05 Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Penetration Products
  - 3. AAMA/WDMA 1600/I.S.7 – Voluntary Specifications for Skylights, 2000
- C. Berry Plastics, Flashing Tapes Manual, September 2007
  - 1. Application Guide – General
  - 2. Application Guide – Windows/Doors/Skylights
- 1.03 SUBMITTALS
  - A. Two copies of manufacturer’s literature for all products furnished.
  - B. Two copies of Material Safety Data Sheets (MSDS).
  - C. Product sample(s). One sample of each of the sizes and types of product used on project.
- 1.04 QUALITY ASSURANCE
  - A. Applicator shall be familiar with flexible, self-adhering flashing products and shall have experience in flexible, self-adhering flashing installation. Flashing shall be installed by skilled workers trained for this type of work with 3 years minimum experience.
- 1.05 PRODUCT DELIVERY, STORAGE AND HANDLING
  - A. Deliver materials to job site in sealed, unopened cartons and containers.
  - B. Store products with protection from direct weather exposure. Store in original sealed packaging at temperatures between 5°-32°C (40°-90°F), and under moisture-free conditions.
  - C. Stack preformed material to prevent twisting, bending, or abrasion, and to provide ventilation.
  - D. Prevent contact with materials during storage which may cause discoloration, staining, or damage.

- E. Read and follow instructions from MSDS for proper handling and disposal of materials.

## PART 2 – PRODUCTS

### 2.01 MATERIALS

- A. General: Polyken® and Nashua® Flashing Tapes as manufactured by:

Berry Plastics  
25 Forge Parkway  
Franklin, MA 02038  
Website: [www.berryplastics.com](http://www.berryplastics.com) and [www.covcorp.com](http://www.covcorp.com)  
Telephone: (800) 248-7659

Polyken® and Nashua® Flashing Tapes consist of a butyl rubber adhesive with an outer facing and LDPE (low density polyethylene) release liner. The Polyken® and Nashua® Flashing Tapes provide a flexible and self-adhering strip of flashing membrane.

- B. Specific Products

1. Polyken® 626-35 Foilastic: 2 mil aluminum foil facing, butyl rubber adhesive membrane, LDPE release liner.
2. Polyken® 627-35 Shadowlastic: 6.5 mil LDPE black facing, butyl rubber adhesive membrane, LDPE release liner.
3. Nashua® 626-20 Optiflash: 2 mil aluminum, butyl rubber adhesive
4. Nashua® 627-20 Optiflash: 6 mil LDPE black facing, butyl rubber adhesive
5. Nashua® 697-40 Contour: creped, polyolefin facing, butyl rubber adhesive, coated paper release liner

### 2.02 ACCESSORIES

- A. Primer: Polyken #1027 Primer for use with porous substrates. Concrete, masonry, OSB and gypsum-core sheathings should be primed for better flashing adhesion.
- B. Sealant: As specified in Section 07900.
1. Chemical Compatibility: Generally, sealants made with polyurethane, butyl, and silicone elastomers will have chemical compatibility to the facing and adhesive sides of Polyken® and Nashua® flashing tapes.
  2. Manufacturer: Check and confirm with specific sealant manufacturers regarding adhesion of specific sealants and application to Polyken® and Nashua® flashing tapes and the particular materials selected for fenestration product and the weather-resistant barrier.

3. Adhesion: Absent specific product selection for sealants, use the following general guide for adhesion to Polyken® and Nashua® facings. Check with sealant manufacturer for specific product information.

General Sealant Adhesion Characteristics to Flashing Tape			
Type of Sealant	Polyken® and Nashua® Flashing Tape		
	626 Foil Facing	627 Polyethylene Facing	697 Polymeric Facing
Butyl	Excellent	Excellent	Excellent
Polyurethane	Excellent	(May lack adhesion. Check with sealant manufacturer.)	(May lack adhesion. Check with sealant manufacturer.)
Silicone	Excellent	(May lack adhesion. Check with sealant manufacturer.)	(May lack adhesion. Check with sealant manufacturer.)

PART 3 – EXECUTION

3.01 PREPARATION

- A. Inspect and field measure site conditions and substrates prior to field fabricating work.
- B. Substrates shall be clean, dry, uniform, and smooth prior to flashing application. Remove protrusions and fill voids at substrates as necessary. Ensure fasteners are flush with surface of sheathing substrates.
- C. Allow wet substrates to dry thoroughly. Clean dust and debris from all substrates and surfaces receiving the flashing.
- D. Prime porous substrates with Polyken® #1027 primer according to manufacturer's recommendations. Prime concrete, masonry, oriented strand based (OSB) and gypsum core sheathing products. Polyken® #1027 is V.O.C. compliant.
- E. Provide solid continuous backing or substrate filler to support all portions of flexible flashing. Fill joints or gaps in substrate 1/8" or wider.

3.02 INSTALLATION

- A. General
  1. Manufactured products: Comply with manufacturer's written instructions.

2. Proceed with installation in conjunction with related weather-resistive barrier and flashing in each area of building envelope construction.
  3. Do not dilute primers or sealants
  4. Keep containers closed except when removing materials from them.
- B. Except as otherwise specifically indicated or shown on reviewed shop drawings, conform to drawing details included in manufacturer's recommendations.
  - C. Form sections true to shape, accurate in size, square, and free from distortion or defects.
  - D. Cut flashing strip to length. Form pieces in longest practical lengths. Peel back release liner and discard with small pieces of flashing. Align the flashing strip and press by hand into place. With larger flashing pieces, remove a small part of the release liner at the end of a flashing strip (4 to 6 inches). Then set the exposed flashing against the substrate and press into place. Afterwards, the remaining release liner still attached to the flashing is pulled back between the flashing and substrate. The release liner is peeled away, exposing additional adhesive in 12 to 24 inch long sections working away from the starting point.
  - E. Fit flashings tight in place. Make corners uniform, surfaces flat and straight in planes, and lines accurate to profiles.
  - F. Fabricate corners, transitions and terminations with a minimum number of pieces.
  - G. Lap joints for continuous contact. All seams and splices shall be overlapped 3 inches minimum. Lap joints in direction of moisture drainage, in shingle fashion, unless specifically designated otherwise.
  - H. Roll all flashings with a hand roller, taking special care at laps, seams, splice areas, and T joints to remove any voids and trapped air according to manufacturer's recommendations.
  - I. Do not apply flexible flashings to bridge or cover unsupported voids, gaps, or offset materials.

3.03 POST-INSTALLATION PROTECTION

- A. Protect exposed flashings after installation from mechanical damage, falling debris and prolonged direct weather exposure. Generally, Polyken® and Nashua® flashings will meet the following direct sun exposure limits for ultraviolet light:

<b>Polyken® Flashing Tape – Direct UV Exposure Limits to Facing</b>		
<b>Polyken® and Nashua® Flashing Tape</b>		
<b>626 Foil Facing</b>	<b>627 Polyethylene Facing</b>	<b>697 Polymeric Facing</b>
Indefinite	1 Year	1 Year

- B. Inspect for tears, rips, punctures, and other damage. Repair damage to flashings prior to covering flashings. Repair damage according to manufacturer’s recommendations.
- C. Apply exterior finish coverings over flashings in the proper construction sequence as soon as practical.

END OF SECTION

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