

SECTION 07 65 26

SELF-ADHERING SHEET MEMBRANE FLASHING

This guide specification has been prepared by Polyguard Products Inc., in printed and electronic media, as an aid to specifiers in preparing written construction documents for self-adhering sheet membrane flashing. Polyguard® 400 Flashing is modified asphalt bonded to a polyethylene sheet. The primary uses are for window flashing, wall flashing, through-wall flashing (TWF), joint flashing, and non-vapor permeable sheet air barrier. The slit establishes two sections of release paper that can be removed independently, thereby allowing the flashing to be placed and aligned on a wall without adhering the entire sheet until alignment is complete.

Edit entire master document to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences may contain choices to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance-, proprietary-, and/or descriptive-type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices. Remove these editor notes before final printing of specification.

This guide specification is written around the Construction Specifications Institute (CSI) Section Format standards.

For specification assistance on specific product applications, please contact our offices above or any of our local product representatives throughout the country.

Polyguard Products Inc. reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer's web site and/or in printed media as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of self-adhering sheet membrane flashing.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 04 05 23.16 – Masonry Embedded Flashing.
- B. Section 07 21 00 – Thermal Insulation.
- C. Section 07 50 00 – Membrane Roofing.
- D. Section 07 60 00 – Flashing and Sheet Metal.
- E. Section 07 70 00 – Roof and Wall Specialties and Accessories.
- F. Section 08 10 00 – Doors and Frames.
- G. Section 08 50 00 – Windows.
- H. Section 09 20 00 – Plaster and Gypsum Board.

1.03 REFERENCES

- A. ASTM D 412 – Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
- B. ASTM D 570 – Standard Test Method for Water Absorption of Plastics.
- C. ASTM D 882 – Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
- D. ASTM D 903 – Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
- E. ASTM D 1000 – Standard Test Methods for Pressure-Sensitive, Adhesive-Coated Tapes used for Electrical and Electronic Applications.

- F. ASTM D 1876 – Standard Test Method for Peel Resistance of Adhesives
- G. ASTM E 96 (Method B) – Standard Test Method for Water Vapor Transmission of Materials.
- H. ASTM E 154 – Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.
- I. ASTM E 2357– Standard Test Method for Determining Air Leakage of Air Barrier Assemblies.

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

1.05 QUALITY ASSURANCE

- A. Applicator Qualifications: Use an experienced applicator and adequate number of skilled personnel who are thoroughly trained and experienced in the application of self-adhesive membranes.
- B. Materials: Provide self-adhesive flashing membrane materials which are the products of a single manufacturer.
- C. Pre-Application Conference: A pre-application conference shall be held to establish procedures and to review conditions, installation procedures and coordination with other related work. Meeting agenda shall include review of special details and flashing.
- D. Manufacturer's Representative: Arrange to have trained representative of the manufacturer on-site periodically to review installation procedures.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Store at temperatures at or above 40°F (5°C) free from contact with cold or frozen surfaces.
- D. Store membrane cartons on pallets.
- E. Do not store at temperatures above 90°F (32°C) for extended periods.
- F. Keep away from sparks and flames.
- G. Completely cover when stored outside. Protect from rain.
- H. Protect materials during handling and application to prevent damage or contamination.
- I. Avoid use of products which contain tars, solvents, pitches, polysulfide polymers, or PVC materials that may come into contact with the flashing membrane system.

1.07 PROJECT CONDITIONS

- A. Proceed with installation only when substrate construction and preparation work is complete. If necessary, ensure that subsoil is approved by architect or geotechnical firm.
- B. Warn personnel against breathing of vapors and contact with skin and eyes; wear appropriate protective clothing and respiratory equipment.
- C. Keep flammable products away from spark or flame. Post "No Smoking" signs. Do not allow use of spark-producing equipment during application and until all vapors have dissipated.
- D. Maintain work area in a neat and workmanlike condition. Remove empty cartons and rubbish from the site daily.
- E. Perform work only when existing and forecasted weather conditions are within the limits established by the membrane manufacturer. Do not apply flashing if the temperature is below 40°F (5°C); or to a damp, frost-covered, or otherwise contaminated surface.

1.08 WARRANTY

- A. Manufacturer warrants only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace, at no charge, proven defective product within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Polyguard Products Inc. P.O. Box 755 Ennis, TX 75120-0755; Phone: (214) 515-5000
Fax: (972) 875-9425 E-mail: info@polyguard.com

2.02 MATERIALS

- A. Polyguard® 400 Flashing is a 40-mil, laminated, modified-asphalt, self-adhesive flashing membrane bonded to a cross-laminated polyethylene sheet.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
MEMBRANE THICKNESS	ASTM D 1000	40 Mils
SERVICE TEMPERATURE	-	-40°F to 160°F (-40°C to 71°C)
TENSILE STRENGTH - MEMBRANE	ASTM D 412 Modified Die C	675 PSI
TENSILE STRENGTH - FILM	ASTM D 882 Modified	6530 PSI
ELONGATION – ULTIMATE FAILURE OF RUBBERIZED ASPHALT	ASTM D 412 Modified Die C	200%
PERMEANCE TO WATER VAPOR TRANSMISSION	ASTM E 96 Method B	0.04 Perms
PUNCTURE RESISTANCE - MEMBRANE	ASTM E 154	63.4 lbf
PUNCTURE RESISTANCE -FILM	ASTM E 154	42.8 lbf
PEEL ADHESION	ASTM D 903	12.1 lbs/in. width
LAP PEEL ADHESION	ASTM D 1876	8.96 lbs/in. width
AIR PERMEANCE OF AN ASSEMBLY	ASTM E 2357	0.0008cfm/ft2@ 1.57 psf
WATER ABSORPTION	ASTM D 570	0.1%

1. Widths with Slit Release Film (SRF) [6], [9], [12], [18]-inches.

2.03 ACCESSORIES

- A. Surface Primer Roller-grade Adhesive:
1. Polyguard® 650 LT Liquid Adhesive: A rubber-based, tacky adhesive which is specifically formulated to provide excellent adhesion.
 2. Polyguard® California Sealant: A rubber-based sealant which is specifically formulated to provide excellent adhesion. The VOC (Volatile Organic Compound) content meets the South Coast Air Quality Management District regulations established under the February 1, 1991 version of Rule 1168 ©) (2) Adhesion and Sealant Applications. California Sealant is classified as an Architectural Sealant Primer Porous, with VOC of 527 g/L. Current SCAQMD regulations for this type sealant primer are 775 g/L.
 3. Polyguard® Shur-Tac Liquid Adhesive: A polymer emulsion based adhesive which is specifically formulated to provide excellent adhesion.
- B. Edge Termination:
1. Polyguard® Detail Sealant PW™: A single-component, STPE, 100% solid moisture-cured, elastomeric sealant. It is an environmentally friendly, non-isocyanate product that replaces silicone and urethane sealants. It is a low VOC / HAPS-free, cold-applied, self-adhesive, elastomeric sealant.
 2. Polyguard® LM-95: A two-component, asphalt-modified, urethane material.

C. End Dams and Corners:

1. The Polyguard® Preformed Inside Corner Flashing and End Dams are a 40-mil combination of rubberized asphalt bonded to a cross laminated polyethylene film. The adhesive surface is covered with a release liner.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine surfaces to receive membrane. Notify architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.02 SURFACE PREPARATION

- A. Protect adjacent surfaces not designated to receive self-adhering flashing membrane.
- B. Clean surfaces to receive membrane in accordance with manufacturer's instructions.
- C. Do not apply membrane to surfaces unacceptable to manufacturer.
- D. All surfaces must be clean, smooth, dry; and clean of oil, dust, and excess mortar.
- E. Flashing requires support across gaps and openings greater than 1/8-inch. Modify any 90 degree intersections, i.e. between walls and ledges, to have a sloped transition from the vertical-to-horizontal plane.
- F. On all overlaps, install at a minimum of a 2 1/2-inch side lap and 6-inch end lap.

2.03 APPLICATION

- A. Apply a coating of Polyguard® 650 LT Liquid Adhesive, California Sealant, or Shur-Tac Liquid Adhesive at a rate of 250-300 square feet per gallon, or selected Spray Adhesive; and allow the adhesive to dry to the touch before covering with associated accessories. Do not thin Liquid Adhesive. If a substrate has been coated with Polyguard® Airlok Flex®, Airlok Flex® VP, Airlok Flex® VP LT, Airlok Flex® WG, or Airlok Flex® WG LT; and the coating is cured, priming with a liquid adhesive is not necessary.
- B. Install Polyguard® 400 Flashing in ambient and substrate surface temperature of 40°F (5°C) and rising. Conduct a field adhesion test at temperatures below 40°F (5°C) prior to application.
- C. Apply pressure over the face of the installed membrane with a hard surfaced rubber roller or similar blunt instrument.
- D. Terminate the top edge of flashing with Polyguard® Detail Sealant PW™. Termination Bar is recommended.

3.04 PROTECTION

- A. 400 Flashing can be left exposed to UV for up to thirty (30) days.
- B. Cover the membrane when applicable in a manner that prevents damage to the material.

END OF SECTION