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 wall flashing, through-wall flashing (TWF), joint flashing, and non-vapor permeable air barrier. The asphalt is protected with a release paper that is slit 3-inches in from an edge. 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.

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


F. ASTM E 154 – Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.


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. Installer Qualifications: Use an experienced installer and adequate number of skilled personnel who are thoroughly trained and experienced in the application of self-adhesive membranes.

B. Obtain self-adhesive flashing membrane materials from a single manufacturer regularly engaged in manufacturing the product.

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 adhesives at temperatures of 40°F (4°C) and above to facilitate handling.

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.

1.07 ENVIRONMENTAL REQUIREMENTS

A. Product not intended for uses subject to abuse or permanent exposure to the elements.

B. Protect rolls from direct sunlight until ready for use.

C. Do not apply membrane when air or surface temperatures are below 40°F (4°C).

D. Do not apply to frozen surfaces.
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 Email: info@polyguardproducts.com.

2.02 MATERIALS

A. Polyguard® 400 Flashing is modified asphalt bonded to a polyethylene sheet. [Split Release Paper protects the asphalt with a release paper that is slit 3-inches in from an edge.]

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>TYPICAL VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL THICKNESS</td>
<td></td>
<td>40 Mils.</td>
</tr>
<tr>
<td>PUNCTURE RESISTANCE - FILM</td>
<td>ASTM D 781 (Kg/CM)</td>
<td>110</td>
</tr>
<tr>
<td>PUNCTURE RESISTANCE OF</td>
<td>ASTM E 154 (LBS)</td>
<td>40 Min.</td>
</tr>
<tr>
<td>TENSILE STRENGTH OF COMPOSITE</td>
<td>ASTM D 412 Modified Die C</td>
<td>750 PSI Min.</td>
</tr>
<tr>
<td>TENSILE STRENGTH OF FILM</td>
<td>ASTM D 882</td>
<td>5000 PSI Min.</td>
</tr>
<tr>
<td>ELONGATION OF RUBBERIZED</td>
<td>ASTM D 412 Modified Die C</td>
<td>400% Min.</td>
</tr>
<tr>
<td>PERMEANCE TO WATER VAPOR</td>
<td>ASTM E 96 Method B</td>
<td>0.035 Max.</td>
</tr>
<tr>
<td>AIR PERMEANCE OF BUILDING</td>
<td>ASTM E 2178</td>
<td>0.007L/(s.m2) @75 Pa</td>
</tr>
<tr>
<td>MATERIALS</td>
<td></td>
<td>[0.0014cfm/ft2@1.56 psf]</td>
</tr>
<tr>
<td>AIR PERMEANCE OF AN ASSEMBLY</td>
<td>ASTM E 2357</td>
<td>0.0008cfm/ft2 @1.57 psf</td>
</tr>
<tr>
<td>WATER ABSORPTION</td>
<td>ASTM D 570</td>
<td>0.014%</td>
</tr>
<tr>
<td>NAIL SEALABILITY</td>
<td>ASTM D 1970</td>
<td>Pass</td>
</tr>
</tbody>
</table>

1. Width: [3], [4],[6], [9], [12], [16], [18], [24]-inches. Widths with Split Release Paper [6], [9], [12], [16], [18], [24]-inches.

2.03 ACCESSORIES

A. Surface Primer Roller-grade Adhesive:

1. Polyguard® 650 LT Liquid Adhesive: A rubber-based adhesive in solvent solution which is specifically formulated to provide excellent adhesion with the Polyguard Waterproofing Membranes to prime all structural concrete, masonry, insulation, or wood surfaces. It is designed to be used on applications down to 25°F (-4°C).

2. Polyguard® California Sealant: A rubber-based sealant in solvent solution which is specifically formulated to provide excellent adhesion with the Polyguard Waterproofing Membrane. 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 521 g/L. Current SCAQMD regulations for this type sealant primer are 775 g/L.

3. Polyguard® Shur-Tac Liquid Adhesive: Roller-grade, polymer emulsion based adhesive. It is used to prime all structural concrete, masonry, insulation, or wood surfaces. Designed to be used on applications down to 25°F (-4°C).
B. Edge Termination:
   1. Polyguard® Detail Sealant PW™ is a single-component, elastomeric sealant. It is an environmentally friendly, non-isocyanate product that replaces silicone and urethane sealants. Product is a low VOC/HAPS free, cold-applied, self-adhesive, elastomeric sealant for filling minor cast concrete cracks, concrete masonry cracks, gaps at head joints, penetrations, and gypsum sheathing joints.

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. In flashing applications, trim the forward edge 5/8-inch from either the face of the wall or from the forward bend in exposed metal drips or counters.
   F. Flashing requires support across gaps and openings greater than 1/8-inch. 90-degree intersections, i.e. between walls and ledges, should be modified to have a less severe angled transition from vertical to horizontal.
   G. Creation of an even and sloped support and drainage plane at transitions and gaps should be accomplished as follows:
      1. At wall-to-ledge intersections, form a cant surface using: mortar or Polyguard® Detail Sealant PW™; formed metal or plastic with hemmed, smooth, or soft edges; or a Polyguard® 400 Flashing cant.
      2. Across wall cavities and gaps greater than 1/8-inch between materials use: wall fastened formed metal or plastic with hemmed, smooth, or soft edges; wall fastened tapered/beveled edged rigid foam; or a Polyguard® 400 Flashing cant.
   H. For best results, install row and end overlays with a minimum 2-inch overlap.

3.03 APPLICATION
A. Apply a coating of Polyguard® 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® or Polyguard® Airlok Flex® VP and the coating is cured, priming with a liquid adhesive is not necessary.

B. Per construction documents, install Drip Edge along edges and ledges that are above pedestrian traffic areas, Drip Counters along edges and ledges in pedestrian traffic areas, and Drip Counters along roof to wall intersections.

C. Form a cant along the vertical to horizontal intersection.

D. Install Polyguard® 400 Flashing.

E. Apply pressure over the face of the installed membrane with a hard surfaced rubber roller or similar blunt instrument.

F. Terminate the top edge of flashing as follows: In cavity wall assemblies, install Flared Termination Strips along the top edge of the flashing. In non-cavity wall assemblies, a top edge mechanical restraint is not required.

G. Apply Polyguard® Detail Sealant PW™ or Polyguard® 650 Mastic in-and-along the flare of termination strips along the top edge of non-restrained flashing and along end laps.

H. Install Polyguard® Horizontal Weeps over the face of the flashing prior to installing the exterior finish. Where masonry will be dry set on a supporting plane, cut the weep extensions from the body of the Horizontal Weep. Then attach the trimmed weep body to the face of the flashing and locate 3/16-inch tube weeps in the bottom of each masonry head joint with the cavity end of the tube friction fit between the bottom of the weep body and the flashing. Finally trim the drainage end flush with the face of the wall.

3.04 PROTECTION

A. Cover the membrane when applicable. The membrane is designed for UV exposure of thirty (30) days or less.

END OF SECTION