

SECTION 07 65 26

SELF-ADHERING SEAM AND WINDOW FLASHING WITH INSECT BARRIER

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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 flashing barrier. Polyguard® TERM™ Seam and Window Barrier is a strong, pliable, self-adhesive sheet consisting of a 4 mil high density polyethylene film bonded to 36 mils of insect barrier sealant. TERM Seam and Window Barrier is formulated for low temperature applications down to 40°F (4°C) and 30°F (-1°C) if a primer is used. TERM Seam and Window Barrier is wound on a disposable treated release sheet which can be peeled away to expose the adhesive face.

Edit entire master to suit project requirements. Modify or add items as necessary. Delete items which are not applicable. Words and sentences may contain choice to be made regarding inclusion or exclusion of a particular item or statement. This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these 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 matter as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

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PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Window flashing and seam tape

1.02 RELATED SECTIONS

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

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- A. Section 06100 – Rough carpentry.
- B. Section 06112 – Framing and Sheathing.
- C. Section 08100 – Metal Doors and Frames.
- D. Section 08300 - Windows.
- E. Section 08400 – Entrances and Storefronts.

1.03 REFERENCES

- A. ASTM D 146 - Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Fabrics Used in Roofing and Waterproofing.
- B. ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
- C. ASTM E 96 (Method B) - Standard Test Methods for Water Vapor Transmission of Materials.
- D. ASTM D 882 - 02 Standard Test Method for Tensile Properties of Thin Plastic Sheeting

- E. ASTM E 154 - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover.
- F. ASTM D 1000 – 04 Standard Test Method for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications
- G. Radon Reduction Technology Laboratory – Resistance to Permeance by Radioactive Radon Gas; Resistance to Diffusion by Radioactive Radon Gas
- H. ASTM F 2130 – Measuring Repellency, Retention, and Penetration of Liquid Pesticide Formulation Through Protective Clothing Materials
- I. ASTM D 1758 – 06 Standard Test Method of Evaluating Wood Preservatives

#### 1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions, use limitations and recommendations. Include certification of data indicating VOC (Volatile Organic Compound) content of all components of waterproofing system.
- B. Samples: Submit representative samples of the following for approval:
  - 1. Barrier Tape and Accessories.
- C. Sustainable Design Submittals:
  - 1. Submit invoices and documentation from manufacturer of the amounts of materials and content for products specified.
  - 2. Submit invoices and documentation showing manufacturing locations and origins of materials for products manufactured and sourced within 500 miles of project location.
- D. LEED Submittal: Documentation of materials, recycled content and location of manufacturer.
  - 1. LEED MR Credit 2 – Construction Waste Management: Provide documentation of reusable materials by weight and volume diverted back to manufacturing process or to appropriate sites.
  - 2. LEED, MR Credit 5 – Regional Materials: Provide documentation for cost of materials or products that have been extracted, harvested, or recovered and also manufactured within 500 miles of project site.
    - a. If only a portion of the materials or products is extracted, harvested, or recovered and manufactured locally, then only provide percentage by weight for credit value.
  - 3. LEED, SS Credit 3 – Brownfield Development: Provide documentation of materials that contribute to the redevelopment of a contaminated land site that has been defined as a brownfield by a local, state or federal government agency.
  - 4. LEED, EQ Credit 5 – Indoor Chemical and Pollutant Source Control: Provide documentation of long term testing of ability to physically block access by termites and other insects into the structure, thus reducing future usage of pesticides.
  - 5. LEED, ID Credit 1:
    - 1.1 Provide documentation of long term testing supporting the environmental and health benefits obtained through the physical blocking of insects and other pests from entry to the structure, therefore reducing the need for application of pesticides over the life of the structure.

#### 1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Barrier System must be manufactured by a company with a minimum of 10 years of experience in the production and sales of membrane waterproofing materials, as well as technical and sales personnel with backgrounds in entomology and/or pest control.
- B. Applicator Qualifications: A firm having at least 5 years of experience in applying these types of specified materials and specifically accepted in writing by the barrier system manufacturer.
- C. Materials: For each type of material required to complete the work of this section, provide primary materials which are the products of a single manufacturer.
- D. 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.
- E. Manufacturer's Representative: Arrange to have trained representative of the manufacturer on site periodically to review installation procedures. Representative(s) must be trained in pest control as well as waterproofing.

#### 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 seam and window 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 (5° 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.

### 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® TERM Seam and Window Barrier, is a strong pliable, self-adhesive sheet consisting of a 4 mil high density polyethylene film bonded to 36 mils of sealant. Formulated for low temperature application down to 40°F (4°C) and 30°F (-1°C) if a primer is used.

PHYSICAL PROPERTIES

Typical Properties of TERM Foundation Barrier			
Property	Test Method	English	Metric
Color	--	Red	Red
Barrier Thickness	ASTM D 1000 inch (mm)	.040	1.0
Long Term Testing against Termite Penetration – 4 Field Sites	ASTM D 1758 - 06 <a href="http://www.polyguardbarriers.com/techref.htm">www.polyguardbarriers.com/techref.htm</a>	100% effective	100% effective
Elongation of Barrier Sealant – Percent Stretch Before Failure	ASTM D 412	> 1000%	> 1000%
Resistance to Radioactive Radon Gas	Radon Reduction Technology Laboratory % reduction in radon gas diffusion	97.1%	97.1%
Pesticide Repellency (Chlorodane, fipronil, permethrin)	ASTM F 2130	0%	0%
Permeance to Moisture / Water Vapor	ASTM E 96-B Grains/ft2/hr/in HGF (grains/hr/m2)	.035	.023
Water Absorption	ASTM D 570	0.014%	0.014%
Tensile Strength – Film Backing	ASTM D 882 PSI / (N/mm2)	5000	34.5
Tensile Strength – Barrier Composite	ASTM D 412(Modified Die C)PSI / (N/mm2)	325	2.24
Peel Adhesion	ASTM D 1000lb/in width / (N/mm)	10.0	1.75
Overlap Bond	ASTM D 1000lb/in width / (N/mm)	8.0	1.4
Low Temperature Flexibility	ASTM D 146 180° bend over 1" mandral at -25°F (-32°C)	No cracking or delamination	No cracking or delamination
Barrier Puncture Resistance	ASTM E 154 (Blunt Instrument)lb / (N)	40	178

1. Width: 4",6",8" inches x 75'.

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® TERM™ Flashing Barrier to prime all structural concrete, masonry, insulation, or wood surfaces. Designed for use on applications down to 30°F. (-1°C).
2. Polyguard® California Sealant: A rubber based sealant in solvent solution which is specifically formulated to provide excellent adhesion with the Polyguard® TERM™ Flashing Barrier. 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. Polyguard 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 Water based 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 30 degrees F (-1 C.)

B. Polyguard® Detail Sealant PW™:

1. Single component elastomeric sealant. It is environmentally friendly, non-isocyanate product that replaces silicone and urethane sealants. They are low VOC/HAPS free, high performance, flexible sealant that is solvent free. Used on substrates including: Rigid PVC, bare aluminum, stainless steel, galvanized steel, anodized aluminum, tile, wood, concrete, FRP, polystyrene, molded polyurethane, polyester and ABS

### 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 seam and window barrier.
- B. Clean surfaces thoroughly prior to installation. Do not proceed with installation until substrates have been prepared using methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- C. All surfaces must be clean, smooth, and dry and must be clean of oil, dust, and excess mortar.
- D. Seam and window barrier flashing requires support across gaps and openings greater than 1/8-inch.

#### 3.03 APPLICATION

- A. Install in accordance with manufacturer's installation instructions.
1. Apply adhesive or sealant to masonry and weathered surfaces prior to application.
  2. Apply adhesive to substrate in colder temperatures to enhance bonding to Barrier Flashing.

**\*\*NOTE TO SPECIFIER \*\* Delete if not required**

B. Flanged Windows Installation

1. Cut length of Barrier Flashing that is 12 inches (305 mm) wider than the window to install on the sill. Peel back 6 inches (152 mm) of the release liner, press Barrier Flashing into place and continue removing release liner. Roll Barrier Flashing surface firmly with hand roller to ensure adhesion.
2. Install window according to manufacturer's recommendations and specifications.
3. Cut two lengths of Barrier Flashing for each side of the window approximately 6 inches (152 mm) longer than height of the window.
4. Start applying the Barrier Flashing at the bottom of the window, overlap the bottom pieces of seam and window barrier. Repeat on other side of window.
5. Cut a length of Barrier Flashing that is at least 12 inches (305 mm) wider than the top of the window. Apply this piece across the top of the window covering each end of the side pieces of Barrier Flashing. The header piece of the seam and window barrier must be installed directly to the sheathing underneath the house wrap.

6. Seam and window barrier must be covered as soon as possible and not left exposed for more than 30 days.

**\*\*NOTE TO SPECIFIER \*\* Delete if not required**

C. Inset Windows Installation:

1. Cover window frame opening with Barrier Flashing – Barrier Flashing overlaps should be at least 3 inches (76 mm) in a shingle layer manner.
2. Install window according to manufacturer's recommendations and specifications.

**\*\*NOTE TO SPECIFIER \*\* Delete if not required**

D. Substrate Seam Installation:

1. Start at the bottom and work up – peel back 6 inches (152 mm) to 10 inches (254 mm) of release liner to expose compound.
2. Center Barrier Flashing over the seam and press into place.
3. Roll Barrier Flashing firmly with a hand roller to activate adhesive.

3.04 PROTECTION

- A. Protect installed products until completion of project.
- B. Cover the seam and window barrier when applicable. The flashing barrier is designed for UV exposure of 30 days or less.
- C. Do final observation and repair or replace damaged seam and window barrier before applying the exterior facade.

END OF SECTION

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