

THRU WALL FLASHING

1. PRODUCT NAME

Thru Wall Flashing Membrane, Preformed End Dams, Corners and Accessories

2. MANUFACTURER

POLYGUARD PRODUCTS, INC.
Ennis, TX 75120-0755
Phone: (214) 215-5000
(800) 541-4994
Fax: (972) 875-9425
Web: www.polyguardproducts.com

3. PRODUCT DESCRIPTION

Basic Use: POLYGUARD THRU WALL FLASHING MEMBRANES are self-sealing, fully adhered membrane systems used in exterior masonry wall systems to deflect water from thru wall penetrations. Applications include spandrel beams, sills, copings, door and window headers and flange flashings. POLYGUARD THRU WALL FLASHING collects water that penetrates the exterior wythe and directs it to the exterior through weepholes.

POLYGUARD PREFORMED END DAMS are used in vulnerable locations

such as corners and near the jamb lines above and below wall openings.

POLYGUARD PREFORMED CORNERS provide maximum protection against moisture infiltration at both inner and outer corners. It bridges the waterproofing membrane where it terminates, forming a continuous water deterrent seal.

POLYGUARD LIQUID ADHESIVE is used to prepare surfaces in all Thru Wall Flashing applications. VOC compliant adhesives are available for areas with special requirements. Contact Polyguard for further information.

POLYGUARD 650 MASTIC is used to seal all terminations in the Thru Wall Flashing. POLYGUARD 650 MASTIC eliminates the need for reglets in the backup system. Pipe and other penetrations and terminations are to be sealed with POLYGUARD 650 MASTIC.

POLYGUARD CAVITY DRAIN is a drainage mat designed for masonry cavity walls. Its purpose is to ensure that mortar droppings do not block the flow of water along the flashing surface to the weephole exits.

POLYGUARD DRIP EDGE is a

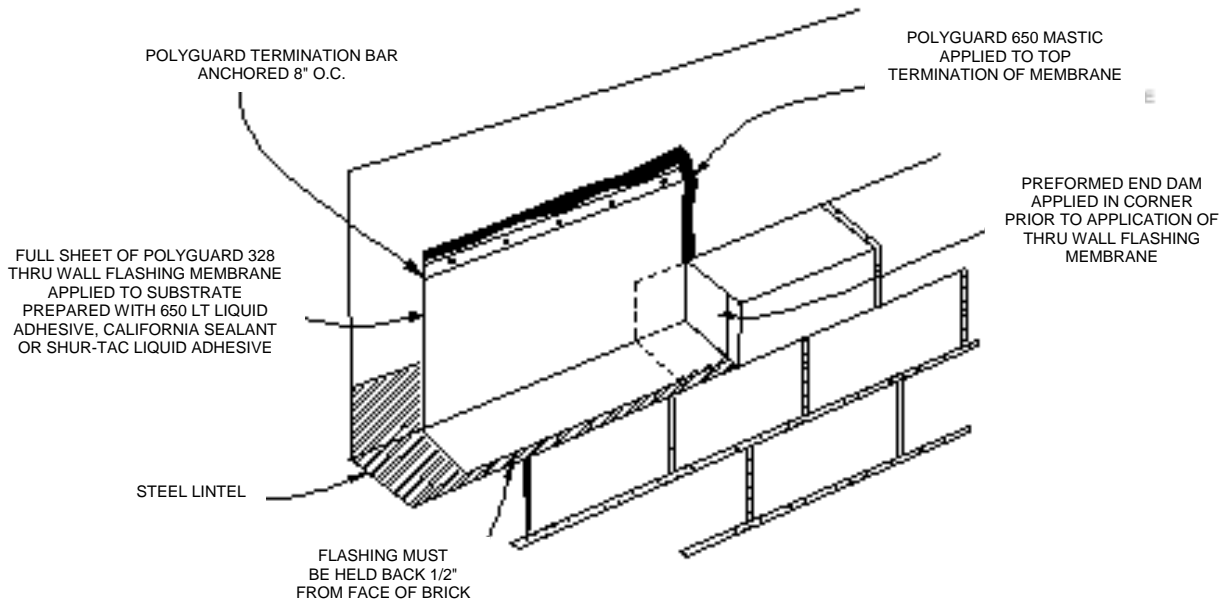
stainless steel strip designed to extend beyond the face of the masonry. POLYGUARD THRU WALL FLASHING materials should be terminated on the drip edges underneath the mortar.

Composition and Materials: POLYGUARD THRU WALL FLASHING MEMBRANES, PREFORMED END DAMS AND CORNERS are strong pliable, self-adhering, self-sealing sheets consisting of high density polyethylene film laminated to a layer of rubberized asphalt waterproofing compound. It is factory bonded to assure uniform thickness.

POLYGUARD 650 LT LIQUID ADHESIVE is a fast drying, high tack rubber based liquid adhesive in solvent solution. Other VOC compliant adhesives are available when required.

POLYGUARD 650 MASTIC is a rubberized asphalt mastic with a low solvent content.

POLYGUARD CAVITY DRAIN is a prefabricated plastic structure providing channels for water to flow along the flashing surface to the weepholes.



MASONRY END DAM

Polyguard

This Information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.

POLYGUARD PRODUCTS, INC • ENNIS, TEXAS 75120-0755

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Web Site: www.polyguardproducts.com



Polyguard has been ISO 9000 certified since 1996. Current certifications are:
- American Natl. Standards Institute
- Dutch Council for Certification
- Deutscher Akkreditierungs Rat

4. TECHNICAL DATA

Properties of Polyguard 400 Thru Wall Flashing	Typical Properties
Color	Dark Gray/Black
Thickness (mils)	40
Puncture Resistance (Film) (ASTM D-1781) Kg/CM	110
Tensile Strength of Composite Membrane (ASTM D-412 Modified)	750 PSI Min.
Softening Point of Rubberized Asphalt (ASTM D-36)	>210°F
Elongation of Rubberized Asphalt (ASTM D-412 Modified)	400% Min
Water Vapor Transmission (ASTM E-96 Method B) Water Vapor Transmission Rate grains/hr-ft² Permeance	<0.035 <0.014

5. INSTALLATION

Material Storage: THRU WALL FLASHING, PREFORMED WND DAMS, CORNERS AND ACCESSORIES should be unloaded and stored in such a manner that prevents injury to the materials. All containers must be protected from weather, sparks, flames, excessive heat, cold and lack of ventilation. All materials should be palletized and covered to prevent water damage.

Preparatory Work: Surface Preparation - Clean all surfaces of dust, dirt, foreign matter. Eliminate sharp protrusions, which may puncture thru wall flashing. Surface should be dry prior to application of the materials.

Priming: Stir Liquid Adhesive each day before use. POLYGUARD LIQUID ADHESIVE should be applied to entire surface at a rate of 250-300 square feet per gallon. Primed surfaces must be reprimed if THRU WALL FLASHING is not applied to the liquid adhesive within the same working day. Use brush or lambs wool roller for liquid adhesive application. 650 LT LIQUID ADHESIVE will remain tacky to touch. THRU WALL FLASHING can be applied 30-60 minutes after liquid adhesive is applied.

Primed surfaces should be immediately covered or protected to prevent contamination occurring on the LIQUID ADHESIVE. Metal surfaces may require adhesive to obtain bond of THRU WALL FLASHING to substrate. Field test to determine adhesion level. Surface must be clean, dry and free of any type of contamination.

Installing Flashing: POLYGUARD THRU WALL FLASHING MEMBRANE, PREFORMED END DAMS AND CORNERS are installed at locations requiring flashing to channel water out of cavity wall system through weepholes. Vertical terminations on backup system should extend 8" and be

sealed on day of installation with POLYGUARD 650 MASTIC. Extend THRU WALL FLASHING to within 1/2" of exterior face of masonry wall. If exterior drip edge is required terminate flashing 1" on to POLYGUARD DRIP EDGE. THRU WALL FLASHING is installed on spandrel beams, ledges, window and door headers and other penetrations/interruptions of wall system. Use of a drip edge is strongly recommended where the flashing is being installed over a bridge course (TO AVOID EFFLORESCENSE) or over concrete masonry (TO AVOID LEAVING CMU's HOLES EXPOSED). All overlaps of flashing to be a minimum of 2" and should shed or run parallel to direction of water flow. Prime overlaps in temperatures below 40°F. Membrane may be applied to a temperature of 25°F.

Installation Over Open Cavity: If flashing must bridge over an open cavity, as opposed to being fully adhered to brick, block, lintel or angle, design should provide support to insure that THRU WALL FLASHING does not sag into the open cavity area. Contact POLYGUARD PRODUCTS for assistance in this situation.

Flashing Arches: Flashing should be installed below the arch and above the window framing or steel angle lintel.

Wall Base: Place flashing continuously to divert water to exterior.

Sills: THRU WALL FLASHING should be placed under all sills and overlapped with a preformed end dam at all terminations to form a continuous water deterrent seal.

Steel Lintels: Flashing should be installed over all openings. The flashing should be placed directly on top of primed lintel and overlapped with preformed end dam a minimum of 2" at terminations to form a continuous water deterrent seal.

Spandrel and Shelf Angles: In concrete or steel frame building the entire faces of the spandrel beams should be primed and flashed. Take care to assure pressure is applied for adhesion to surface.

Projections, Recesses, Copings and Caps: STAINLESS STEEL DRIP EDGE should be used. Lap the flashing membrane over the top of the DRIP EDGE a minimum 1" onto DRIP EDGE. Caps should have top surface sloping downward away from the face of the wall, copings may slope one or both directions. In all cases, the slope should be a minimum of 15° from horizontal, where the wall becomes partially or totally discontinued vertically.

Flashing Around Corners: When flashing around corners, the flashing should be continuous with the use of POLYGUARD PREFORMED CORNER.

Flashing at Vertical Supports: When application requires puncturing or slitting, make sure all openings in the flashing are tightly sealed and that the flashing is terminated onto the supports with POLYGUARD 650 MASTIC.

Cavity Drainage: To ensure drainage of water along flashing to weephole exits, POLYGUARD CAVITY DRAIN should be inserted into cavity wall in U shape between wall and inner wythe of brick.

Weepholes: In order to properly drain any water collected from properly applied flashing, weepholes must be provided immediately above the flashing at all flashing locations. In general, weepholes should be at least 1/4" diameter, and should be spaced no further than 24" horizontally. Check the Brick Institute of America for specification standards.

Cleaning of All Excess Mortar: It is also necessary to clean out all excess mortar that may have dropped onto the flashing to ensure clear passage way for water to drain off flashing to the weepholes and out the exterior of the wall.

Ultraviolet Exposure: THRU WALL FLASHINGS can be adversely affected by ultraviolet light. The flashing system must be covered as soon as possible and not left exposed to sunlight for over 30 days.

Precautions: The liquid adhesive is an industrial coating and would be harmful or fatal if swallowed. Most are marked as red label from the standpoint of flash point. Prohibit flames, sparks, welding and smoking during applications. Refer to product

label for handling, use and storage precautions.

Solvents could be irritating to the eyes. In case of contact with eyes, flush with water and contact physician.

Avoid prolonged contact with skin and breathing of vapor or spray mist from liquid adhesive. If in confined areas, use adequate forced ventilation, fresh air masks, explosion proof equipment and clean clothing. Avoid solvent contact with light bulbs or other high temperature surfaces.

This material is offered for sale by *POLYGUARD PRODUCTS, INC.* only for the expressed purposes as described in this literature. Any use of the products other than taught therein by *POLYGUARD PRODUCTS, INC.* shall be the responsibility of the purchaser and *POLYGUARD PRODUCTS, INC.*, does not warrant, nor will be responsible for any misuse of these products.

POLYGUARD PRODUCTS, as described herein, are for industrial use ONLY. The application procedures should be performed by workmen who are skilled in the application of materials with manufacturer's specifications.

Material Safety Data: All Material Safety Data Sheets and precautionary labels should be read and understood by all user supervisory personnel and

**CLOSE CONTAINER AFTER EACH USE.
KEEP OUT OF REACH OF CHILDREN.**

employees before using. Consult *POLYGUARD PRODUCTS, INC.* Material Safety Data Sheets and OSHA regulations for additional safety and health information for the products described herein. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product, including waste disposal.

This is not a Material Safety Data Sheet and is not to be used as such. *POLYGUARD PRODUCTS, INC.* has prepared separate Material Safety Data Sheets on each product.

6. AVAILABILITY AND COST

Availability: *POLYGUARD THRU WALL FLASHING MEMBRANES* are available from selected distributors. Contact *POLYGUARD PRODUCTS* for information.

Cost: Generally, the materials cost of *POLYGUARD THRU WALL FLASHING* is more than PVC flashing and less than copper flashings.

Installation cost of *POLYGUARD THRU WALL FLASHING* is significantly lower than fabricated metal flashings.

7. WARRANTY

POLYGUARD PRODUCTS are warranted to be free of defects in manufacture for five years. Material will be provided at no charge to replace any defective product.

8. MAINTENANCE

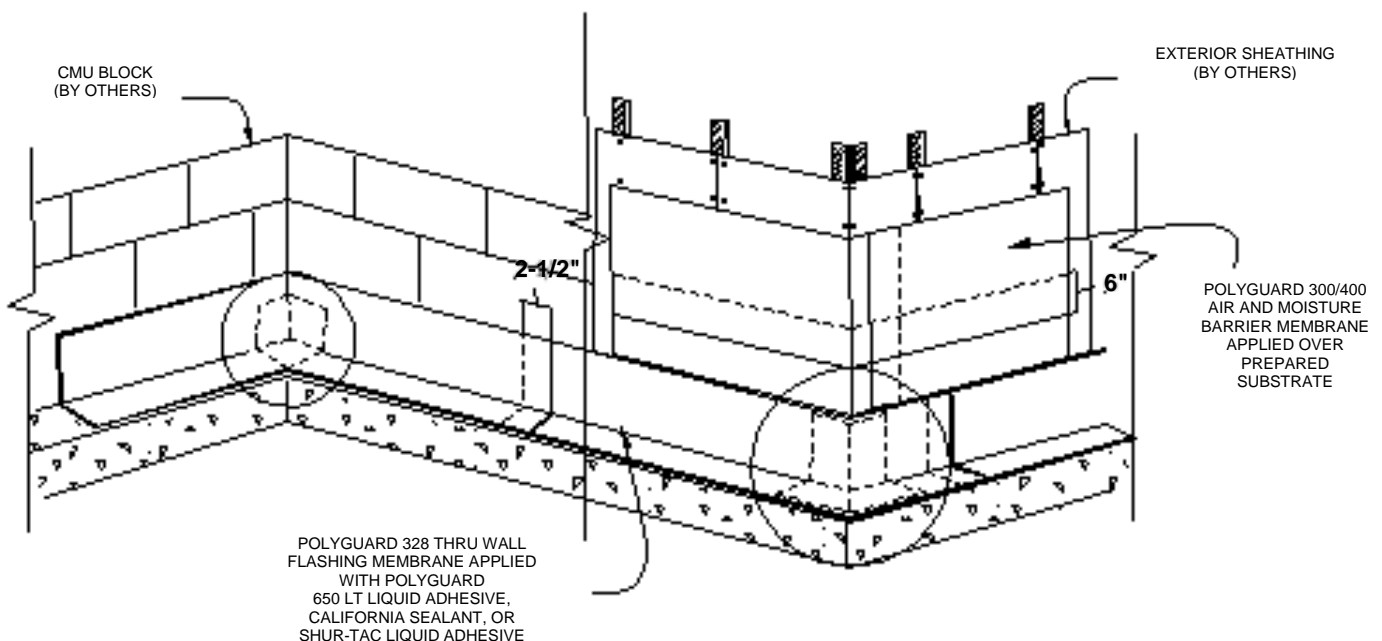
None required, if installed according to *POLYGUARD's* instructions.

9. TECHNICAL SERVICES

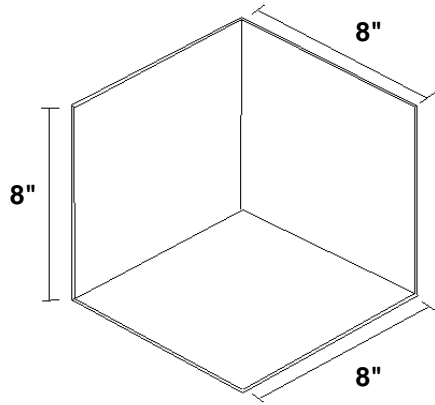
Technical assistance and information are available from any *POLYGUARD* dealer or distributor, or contact *POLYGUARD PRODUCTS, INC.* at (800)541-4994.

10. FILING SYSTEMS

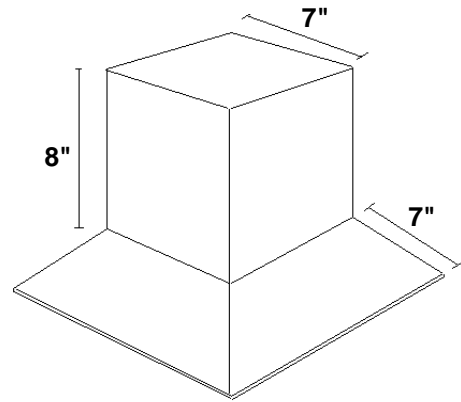
POLYGUARD brochures are available from *POLYGUARD* distributors, website, or the manufacturer.



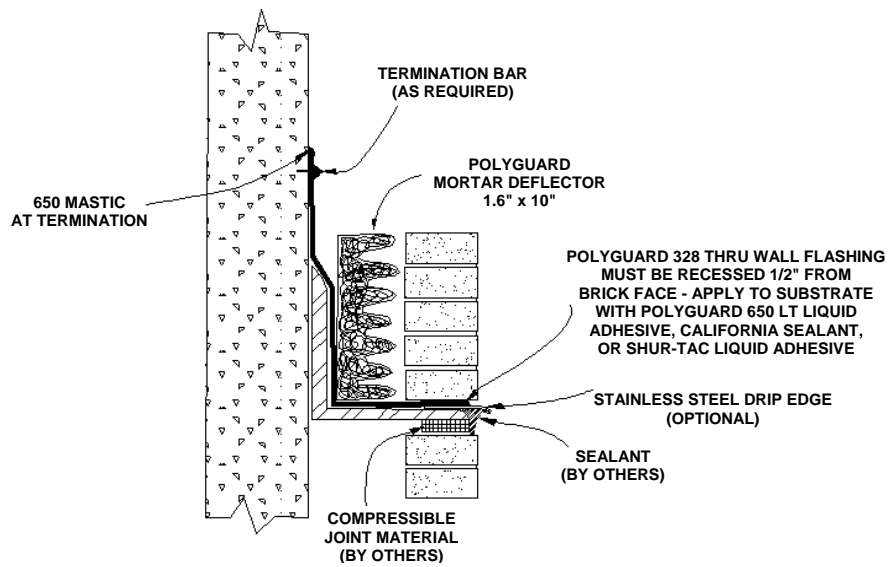
INSIDE AND OUTSIDE CORNERS



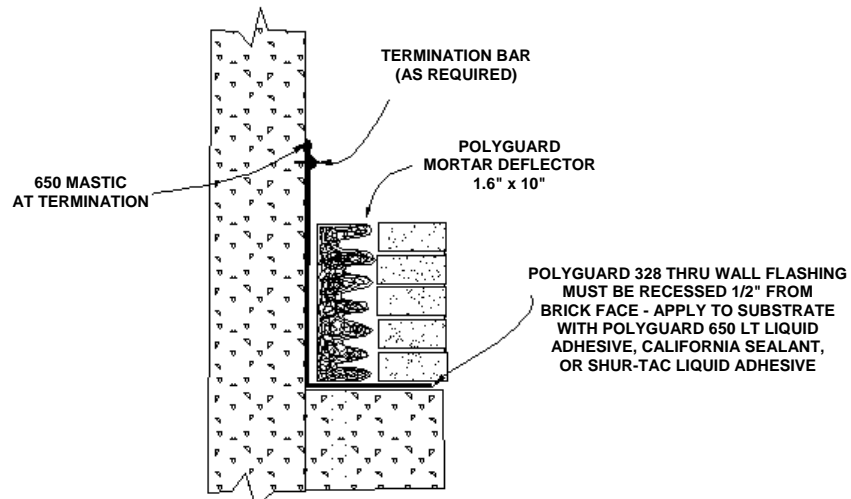
PREFORMED INSIDE CORNER



PREFORMED OUTSIDE CORNER



FLASHING WITH DRIP EDGE



FLASHING WITH BRICK LEDGE