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650 MEMBRANE BALCONY DETAIL
Sheet Waterproofing Membrane

MANUFACTURER
Polyguard Products, Inc.
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PRODUCT DESCRIPTION
Basic Use
650 Membrane is designed for use as a waterproofing membrane on balcony deck structures. Refer to the 650 Membrane data sheet for general information.

PRODUCT PROPERTIES
650 Membrane is a nominal 60 mil, cold applied, adhesive waterproofing sheet.

The polyethylene side is marked to assist with accurate alignment. Polyguard Products 48-inch-wide rolls reduce edge seam occurrence by up to 25% when compared to traditional 36" wide material and thereby reduce overall exposure to leaking along seams.

COMPOSITION AND MATERIALS
650 Membrane is a proprietary asphalt compound bonded to a high strength polyethylene and protected with a removable release sheet.

Available single source accessory products for use in balcony structure protection are:
Primers:
- 650 LT Liquid Adhesive
- California Sealant
Other Accessories:
- 105 Flashing
- Detail Sealant PW™
- LM-85 SL
- LM-95
- Balconyguard™ Outside Corner Boot
Sheet Molded Drain and Protection Accessories:
- Polyflow® BD (for balcony decks with less than 3" of concrete and foot traffic only)
- Polyflow® 18 (for use under structural concrete)

INSTALLATION
The following information is general in nature and covers the basic requirements for installing this material and is not intended to be the single source reference. For job specific details or shop drawings contact either Polyguard's Technical Services or an authorized company representative for assistance.
- Prior to starting work, check that all horizontal surfaces to be waterproofed slope towards drainage or refer to balcony details for zero-slope applications. System is not intended for areas designed to retain water indefinitely but can retain casual water.
- Clean the substrates that will be receiving the materials and remove any irregularities that present a membrane puncture hazard. Bridge gaps between supporting substrates with Detail Sealant PW or LM-95 to establish full support of the membrane.

- Apply in temperatures of 40° F (5° C) and rising, then roll over the surface of installed membrane materials with a hard surfaced rubber roller to insure intimate contact with the receiving substrate.
- Apply materials to substrates that are sound, dry, frost free and that have been primed with one of the listed Primers in COMPOSITION AND MATERIALS.
- Install each material as shown in the graphics and adhere 650 Membrane in a shingled manner as the protective release sheet is peeled away.
- Adhere overlaps to a wiped clean polyethylene surface.
- Cover the application within thirty (30) days.

Polyguard does not manufacture, fabricate or distribute metal drip edges or T-bars. Those shown graphically are representative of ones readily found in the marketplace. Drip edges and T-bars are an important part of the waterproofing assembly as they direct water to and over the face of the exterior finish below the deck.

STORAGE
Store inside in a dry environment, protected from sparks, flames and excessive heat, out of direct sunlight, on a pallet, in the original shipping cartons, and on a stable surface rated for the weight.

Store outside on a pallet, in the original shipping cartons, on a stable surface rated for the weight and covered with a secured water repellant tarpaulin and in a location protected from sparks, flames and excessive heat. Limit overall pallet height to 5-feet and do not double stack full or partial pallets.

SAFETY
SDS sheets for all Polyguard products can be obtained at our website www.polyguard.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

CLEAN UP
A citrus based cleaner is suggested for personal clean up.

WARRANTY
We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate – factors beyond our control. We will replace at no charge product proved to be defective 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.

TECHNICAL SERVICES
Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.
P.O. Box 755, Ennis, TX 75120-0755
Sales: (615) 217-6061•Tech Support: (214) 515-5000
Email: archtech@polyguard.com
Website: www.polyguard.com

PROPERTY	TEST METHOD	TYPICAL VALUE
FILM COLOR		Black/White
MEMBRANE THICKNESS	ASTM D 1000	60 mils
TENSILE STRENGTH, MEMBRANE	ASTM D 412 Modified Die C	M-805 PSI T-846 PSI
ELONGATION - ULTIMATE FAILURE OF RUBBERIZED ASPHALT	ASTM D 412 Modified Die C	M-323% T-503%
TENSILE STRENGTH, FILM	ASTM D 882	7294 PSI
PERMEANCE	ASTM E 96 Method B	0.022 Perms
CRACK CYCLING	ASTM C 836 Tested @-15° F (-26° C)	No effect
PEEL ADHESION (To Concrete)	ASTM D 903	17 lbs./in. width
PEEL ADHESION (Laps – Membrane to Membrane)	ASTM D 903	19 lbs./in. width
LAP PEEL ADHESION	ASTM D 1876	8.0 lbs./in. width
LOW TEMPERATURE FLEXIBILITY (-15° F)	ASTM D 1970 Modified	Pass
PLIABILITY	ASTM D 146 180° bend over 1" mandrel at -25° F (-32° C)	No effect
PUNCTURE RESISTANCE - MEMBRANE	ASTM E 154	69 lbs.
RESISTANCE TO HYDROSTATIC HEAD	ASTM D 5385	231 ft.
EXPOSURE TO FUNGI IN SOIL	GSA-PBS 07115 (16 weeks)	No effect
WATER ABSORPTION	ASTM D 570	0.1%

PACKAGING	PART NUMBER	UNIT SIZE
Polyguard 650 MEMBRANE – 36"	650L36	36" x 66.7' roll
Polyguard 650 MEMBRANE – 48"	650L48	48" x 50' roll
Required Accessories:		
105 FLASHING	10512	12" x 50' rolls (2/ctn)
105 FLASHING	10518	18" x 50' roll (1/ctn)
DETAIL SEALANT PW™	DETAIL SEALANT PW - SAU 20 OZ	20 sausages/ctn
DETAIL SEALANT PW™	DETAIL SEALANT PW - 3 GAL	3-gallon pail
Choose one of the Polyguard adhesives or sealants to prime the substrate		
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 5 GA	5-gallon pail
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 1 GA	4 – 1 gal pails/ctn
CALIFORNIA SEALANT	CALSEAL5	5-gallon pail
Possible Accessories:		
LM-85 SSL	LM85-5 SSL	5-gallon pail
LM-85 SSL	LM85-2 SSL	2-gallon pail
LM-95	LM952	2-gallon pail
BALCONYGUARD™ OUTSIDE CORNER BOOT 6" X 6" X 6"	PREFABRICATED 6" CORNER BOOTS	25 pcs/ctn
* Detail Sealant PW™ required in certain details – contact Polyguard Products.		
Drainage Accessories:		
POLYFLOW® BD	POLYFLOW BD	4' x 50' roll
POLYFLOW® 18	POLYFLOW18	4' x 50' roll

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