



GlobalPly E GlobalPly EFB Single-Ply Roof Membrane

Product Information and Technical Data

Product Description:

GlobalPly E Single-Ply Roof Membrane is a PVC Alloy incorporating DuPont Elvaloy technology. The performance characteristics of this membrane system are far superior to any other single-ply membrane available today. This product is available in 45, 60 and 80 mil thickness. It is also available with a spun bonded fleece backing for fully adhered applications with special cold process adhesives or hot applied asphalt.



Uses:

GlobalPly E is suited for commercial/industrial use in harsh rooftop environments. It out performs other membranes in areas such as paper mills, petro-chemical companies, auto industry facilities and etc. It may be installed with mechanical fasteners, cold adhesives, and hot asphalt.

Benefits:

- Highly resistant to many chemicals.
- Non-curing.
- Fast application.
- Pre-fabricated accessories.
- Self-cleaning formula.
- Maintains whiteness over service life.
- Competitively priced.

Technical Data:

Characteristics	Test Method	Physical Properties 40 mil membrane
Color		White(top)/Gray(bottom)
Roll Size		78" wide x 108' long
Weight		4.5 oz./ft ² (nominal)
Thickness	ASTM D 751	0.040" (40 mils minimum)
Breaking Strength	ASTM D 751	300 lbs. X 300 lbs.
Seam Strength	ASTM D-638	90%
Elongation @ Break (min %)	ASTM D 751	17% x 19%
Heat Aging (min. %)	ASTM D 3045	80% x 80%
Tear Strength (min. lbs.)	ASTM D 751	100 lbs. X 100 lbs.
Low Temperature Bend	ASTM D 2136	Pass (-40°F)
Permeance	ASTM E 96	0.003 Perms
Dimensional Change (max. %)	ASTM D 1204	0.3% @ 176°F, 6 hrs.
Dimensional Change (max. %)	ASTM D 1204	1.0% @ 212°F, 1 hr.
Water Immersion (weight change, max. %)	ASTM D 570	1.0% @ 158°F, 1 week
Hydrostatic resistance (min., psi.)	ASTM D 751	400 psi.
Ozone Resistance	ASTM D 1149	Pass
Accelerated Weathering Test	ASTM G 53	None: No cracking, chalking, or discoloration @ 7x magnification after 5000 hours

Quality Control Measures:

Each GlobalPly E Membrane manufactured for GlobalShield, Inc. is identified with a control number that can be referred to in product questions.

Product Sizes: 78" x 108' for field membrane yields net 657 square feet coverage per roll with 4-1/2" overlap at edge and ends.

Product Installation:

The substrate shall be clean, smooth, free of debris, sharp particles, or other irregular surfaces before installation of the roof membrane. All substrate surfaces should be verified as acceptable for installation.

Roof membrane shall be unrolled and positioned with minimum 4-1/2" overlap. The overlapping sheets shall be welded using hot air welding equipment. The areas must be dry and clean so dirt or debris does not interfere with the seaming process. Welds using the automatic welder shall be a minimum of 2" wide.

The seams must be checked for continuity and integrity. All imperfections must be corrected.

Fasteners used to secure the membrane sheets prior to welding the seams is dependent on the thickness of insulation and type of deck. Fastening patterns shall be recommended by GlobalShield.

All roof penetrations shall be made watertight. The membrane shall terminate at roof perimeters, roof edges, roof openings, as shown on detail drawings.

Base flashing shall be constructed of roof membrane or coated metal. All base flashings shall be fully adhered on vertical surfaces. Those surfaces shall be dry, smooth, solvent-resistant, and compatible with the GlobalShield Bonding Adhesive. Unreinforced 55 mil GlobalPly E membrane is provided for waterproofing vent stacks, corners, and other penetrations where the membrane must conform to irregular shapes. Prefabricated unreinforced corners and pipe boots are also available.

Availability and Costs:

Availability: Products are immediately available from GlobalShield, Inc. throughout the United States.

Cost: Cost data is available from your local GlobalShield representative.

Technical Services: GlobalShield Technical Services Department provides problem analysis and assistance in developing recommendations for special applications. Warranty systems require inspection by GlobalShield prior to installation. Progress and final inspections are also required.

Statement of Policy and Responsibility:

GlobalShield takes responsibility for the furnishing of quality materials, and providing specifications and recommendations for their proper installation. GlobalShield does not, either itself or through its representative, practice architecture or engineering. GlobalShield offers no opinion on and expressly disclaims any responsibility for, the structural soundness of any substrate on which its products may be applied. Opinions of competent structural engineers should be obtained by the owner as to the structural soundness of the substrate, or its ability to properly support the contemplated installation. GlobalShield accepts no liability for any failure of the substrate or resultant damages, and no GlobalShield representative is authorized to vary this disclaimer.

