

EverGuard® Freedom™ TPO SA with RapidSeam™

Information Sheet



*Quality You Can Trust Since 1886...
From North America's Largest Roofing Manufacturer™*

Product Data Sheet

EverGuard® Freedom™ TPO SA with RapidSeam™

Title 24 *
Compliant



Description

EverGuard® Freedom™ TPO SA with RapidSeam™ technology is a fully self-adhered membrane available in 2 versatile colors: ENERGY STAR® qualified white and earthtone tan. Freedom™ membranes combine EverGuard's proven TPO technology with an added engineered adhesive preapplied to the bottom of the sheet for quick, hassle-free installation. Freedom™ SA membrane with RapidSeam™ includes a surface adhesive seaming technology so unique, patent pending. Freedom membranes are especially suited for schools and hospitals, high-rises and limited access buildings, and coastal locations and areas subject to extreme wind conditions. RapidSeam™ advantages include installation up to 50 times faster than taped seams and over three times faster than adhesive applications; it eliminates the need for 95% of chemical seam preparation solutions; there are no open flames or hot asphalt on your roof; and the factory-applied adhesive eliminates guesswork or uncertainty by the installer, resulting in uniform application.

Applicable Standards

UL Listed, Dade County, State of Florida, ENERGY STAR® qualified, CRRC listed, Title 24 Compliant (White Only).

Physical Properties	ASTM Test Method	ASTM 6878 Minimum	EverGuard Typical Test Data for 045
1. Certain data is provided in MD (machine direction) x CMD (cross machine direction) format. 2. Data is based upon typical product performance, and is subject to normal manufacturing tolerance and variance			
Nominal Thickness	ASTM D-751	0.039" (min.)	0.045"
Breaking Strength	ASTM D-751 Grab Method	220 lbf/in.	285 lbf x 245 lbf
Factory Seam Strength	ASTM D-751	66 lbf	Pass (membrane failure)
Elongation at Break	ASTM D-751	15%	30%
Heat Aging	ASTM D-573	90% Retention of Breaking Strength and Elongation at Break	100%
Tear Strength	ASTM D-751 8" x 8" Sample	55 lbf	124 lbf x 140 lbf
Puncture Resistance	FTM 101C Method 2031	Not Established	290 lbs.
Cold Brittleness	ASTM D-2137	-40 C	-40 C
Permeance	ASTM E-96	Not Established	0.070 Perms
Dimensional Change	ASTM D-1204 @158 F, 6 hrs.	+/- 1%	0.4%
Water Absorption	ASTM D-471 @158 F, 1 week	+/- 3.0% max.	0.7%
Hydrostatic Resistance	ASTM D-751 Method D	Not Established	390 psi
Ozone Resistance	ASTM D-1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
Reflectivity	ASTM C1549 & E408	N/A	0.76
Emissivity	ASTM E408	N/A	0.90

Product Data

Roll Size	Note: Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation				
	Colors	Full Roll Size	Full Roll Weight	Half Roll Size	Half Roll Weight
	White & Tan	10' x 100' (1,000 sq.ft.)	303 lbs.	5' x 100' (500 sq.ft.)	147.5 lbs.
Note: Membrane rolls shipped horizontally on pallets.					
Storage	Store on pallets in a clean, dry area at temperatures below 100°F; protect adhesive side from exposure to direct sunlight; and use care when handling the adhesive side of material. The adhesive is aggressive and will stick to skin.				
Safety Warning	Membrane rolls are heavy, and are best positioned and installed by at least two people				