

GAF

We protect
what matters most™

GAF Extreme® TPO 80 mil Membrane

WHY TPO

- Great Value—Superior performance at a cost-effective price
- Excellent Seam Strength—Heat-welded seams provide greater seam strength to taped and other seams
- Long-term Weathering—Excellent long-term heat and UV resistance
- Energy Saving—Highly reflective and emissive white roof can help reduce energy costs and urban heat island effect
- CREST Energy Savings Calculator
- Versatile Application Method

WHY BMI EXTREME® TPO

- Best performing TPO in heat aging and UV tests—the best predictors of TPO performance - After accelerated heat aging at 275°F (135°C) for 190 days, GAF Extreme® TPO showed no cracking— while every one of the competitors' samples had failed! - UV testing—Greater than 4.6x the industry standard (ASTM D6878 weather resistance test) California Title 24 Compliant Advanced Protection® TPO
- Longest guarantee in the industry available up to 35 years when using GAF Extreme® TPO 80 mil Membrane*
- High 3-year aged reflectance of 0.72 can help reduce energy costs
- Easier to install due to:
 - Large welding window
 - Most complete line of accessories - 10' (3.05 m) wide sheets



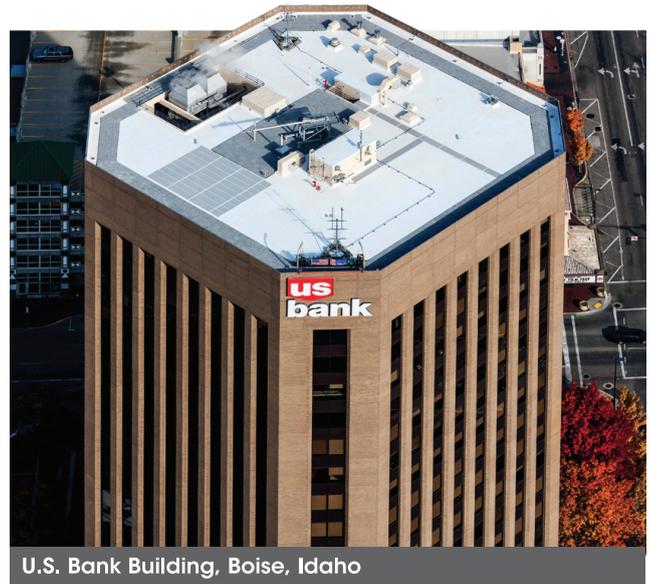
U.S. only



California
Title 24
Compliant



TPO membranes meet the
performance requirements
of ICC ER-6030



U.S. Bank Building, Boise, Idaho

INSTALLATION

GAF Extreme® TPO 80 mil Membrane is suitable for all types of single-ply systems:

- Mechanically Attached Application...for a quick and cost-effective system that can be installed practically year-round.
- RhinoBond® Application...can be applied without using adhesives and installed practically year-round. Qualifies for the same guarantee length as an adhered system.*
- Adhered Application...can be installed with GAF 1121 Bonding Adhesive (solvent-based), GAF Low VOC TPO Bonding Adhesive, or GAF WB181 Bonding Adhesive (water-based) for the smoothest appearance. Provides superior wind uplift performance and qualifies for the longest guarantee available.*

ACCESSORIES

Field fabrication of TPO accessories is time-consuming, costly, and inconsistent, and can lead to unreliable details that compromise a watertight roofing system. GAF Extreme® TPO prefabricated accessories deliver consistent quality and eliminate the worry and problems often associated with field fabrication. They can also boost productivity up to 200%,** while reducing installed cost by up to 12%.

*See applicable guarantee for complete coverage and restrictions.

**Based on GAF estimate to field-fabricate flashing details.

APPLICABLE STANDARDS

UL Listed, FM Approved, ASTM D6878, Title 24 Compliant, Miami-Dade County Approved, Florida Building Code Approved, ENERGY STAR® Qualified.*

Physical Properties	ASTM Test Method	ASTM D6878 Minimum	EverGuard® Typical Test Data
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 D751	0.039" (min.) (0.99 mm)	0.080" (2.03 mm)
Breaking Strength	ASTM D751 Grab Method	220 lbf/in. (38.5 kn/m)	335 lbf x 320 lbf (499 x 497 kg/m)
Factory Seam Strength	ASTM D751	66 lbf (98.34 kg/m)	165 lbf (456kg/m) (membrane failure)
Elongation at Break	ASTM D751	15%	30%
Heat Aging	ASTM D573	90% Retention of Breaking Strength and Elongation at Break	100%
Tear Strength	ASTM D751 8" x 8" (203 x 203 mm) Sample	55 lbf (81.95 kg/m)	60 lbf x 150 lbf (89.4 x 223.5 kg/m)
Puncture Resistance	FTM 101C Method 2031	Not Established	380 (172 kg)
Cold Brittleness	ASTM D2137	-40°C	-40°C
Permeance	ASTM E96	Not Established	0.08 Perms
Dimensional Change	ASTM D1204 @158°F (70°C), 6 hrs.	+/-1%	0.4%
Water Absorption	ASTM D471 @158°F (70°C), 1 week	+/-3.0%	0.7%
Hydrostatic Resistance	ASTM D751 Method D	Not Established	430 psi
Ozone Resistance	ASTM D1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
Reflectivity (white) Initial/Aged	ASTM C1549	N/A	0.835/0.72
Emissivity (white) Initial/Aged	ASTM C1371	N/A	0.84/0.91
Weather Resistance	ASTM G155/D6878	10,080 KJ/(m ² . nm) at 340 nm	>46,000 KJ/(m ² . nm) at 340 nm
Heat Aging	ASTM D573	240°F (115°C) for 32 weeks	128 weeks
Thickness Above Scrim	ASTM D7635	Min 30% of Total Thickness	31.5 mil (Nominal)
Guarantee			
Up to 35 years			

*ENERGY STAR® only valid in the USA

In view of innovation, the specifications are subject to change without any prior notice and in the event of such changes, GAF shall ensure that the new specifications are equivalent if not better.

PRODUCT INFORMATION

Roll Size Note: Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation.

Colors	Full Size Roll	Full Roll Weight	Half Roll Size	Half Roll Weight
White	10' x 100' (3.05 x 30.5 m) (1,000 sq. ft. [92.9 sq.m])	420 lbs. (191 kg)	5' x 100' (1.52 x 30.5 m) (500 sq. ft. [46.5 sq.m])	210 lbs. (95 kg)

Note: Membrane rolls shipped horizontally on pallets, stacked pyramid-style and banded.

Storage Store rolls on their sides on pallets or shelving in a dry area.

Safety Warning Membrane rolls are heavy. Position and install by at least two people.

BMI ROOFING SYSTEMS SDN. BHD.

Registration No. 197401002179 (19163-M)
(Formerly known as Monier Malaysia Sdn. Bhd.)
Suite 11.02, 11th Floor, Menara JKG,
No. 282, Jalan Raja Laut, 50350 Kuala Lumpur, Malaysia
T (+60) (3) 21760600 Toll Free: 1800 88 0865
roofing-malaysia@bmgroupp.com



bmgroupp.com/my