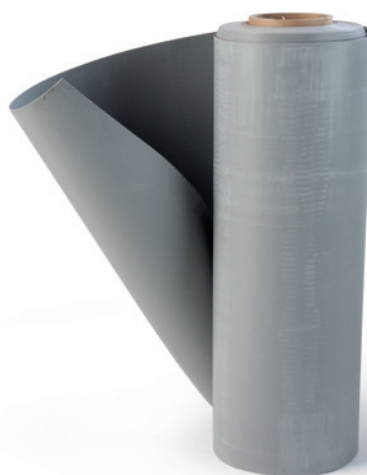


EverGuard TPO

Everguard TPO a polyester reinforced, multi-layer synthetic roof waterproofing membrane based on premium quality thermoplastic polyolefins.

PRODUCT DATA

Thickness	1.2 mm, 1.5 mm, 1.8 mm and 2.0 mm
Width	1.52 m
Roll Length	20 m or 30 m (dependent on thickness)
Colour	White or Grey



DESCRIPTION

Designed for use in all climate conditions, Everguard TPO is a hot-air weldable roof membrane with high dimensional stability and strength. Featuring knitted scrim reinforcement, Everguard TPO is unique to the market, allowing high wind uplift values.

APPLICATION

For mechanical fixing on exposed roofs and under ballast.

APPROVALS / CERTIFICATION

- Polymeric sheets for waterproofing according to EN 13956, certified by the notified body 1213-CPR-6897 and provided with the CE mark.
- Reaction to fire according to EN 13501-1, Product fire class E.
- External fire performance tested according to ENV 1187 and classified according to EN 13501-5: BROOF(t1)*.
- Factory Mutual (FM) Approval Class: 4470.
- Monitoring and assessment by approved laboratories.
- KOMO certificate.

*External fire performance is dependent on the built-up system. Please contact BMI Technical Department for detailed information.



BMI

EVERGUARD

DELIVERY CONDITIONS

Packaging and Delivery

EverGuard TPO is delivered as rolls, laid on wood pallets and individually packed to protect from from the environment.

Transport, Storage and Shelf Life

EverGuard TPO rolls should be covered while transported and stored in original closed packaging. EverGuard TPO rolls must be stored in a horizontal position and protected against mechanical damage and from direct sunlight, rain and snow. Product does not expire if stored correctly. Pallets should not be stacked.

Product Identification

Label on the outside of each roll with all necessary information about product and the production numbers.

ADVANTAGES

- Excellent long term heat and UV resistance
- Insulation neutral
- Excellent flexibility in cold temperatures
- High dimensional stability
- High resistance to hailstorm
- High resistance to impact load
- High maximum tensile load
- Free from plasticisers and toxic heavy metals
- Free from halogenated flame retardants
- Excellent weldability
- No risk of delamination or water wicking
- Compatible to bitumen
- Recyclable

APPLICATION DETAILS

Everguard TPO is suitable for new roofs as well as refurbishment over old bitumen and can be applied either mechanically fixed or under ballast.

In the case of mechanically fixed application and prior to installation, a wind load design calculation that takes into account the different parameters, has to be made in order to determine the number and type of fasteners required.

Overlapping sheets are welded together to form a homogenous lap using hot-air welding machines. For mechanical fixation of the membrane, the installer can use classic fasteners and washers in the seam areas and overlap with the adjoining sheet, or use induction welding.

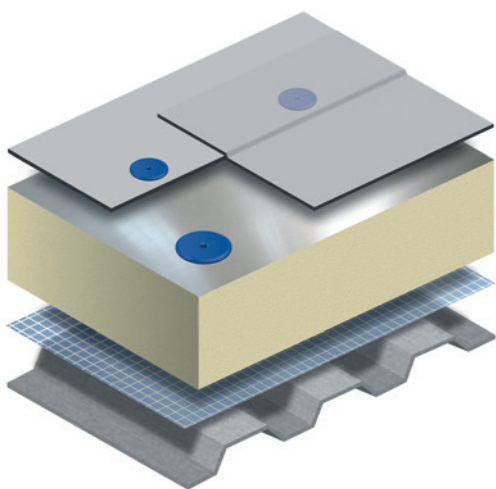
For refurbishment over existing bitumen, Everguard TPO should be installed using a separation layer made of a 300 g/m² polyester.

CHEMICAL RESISTANCE

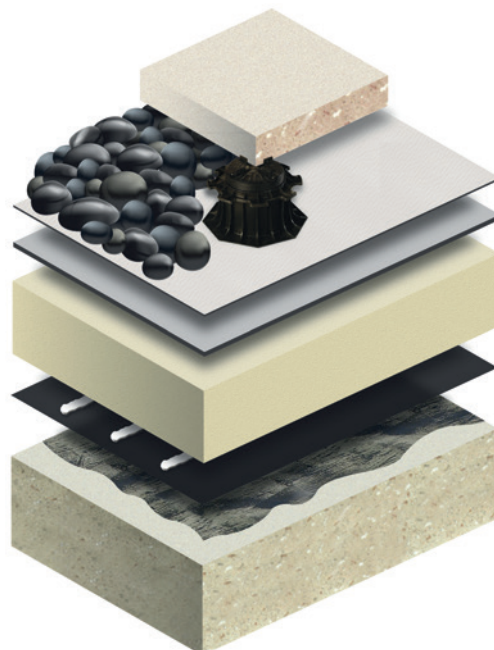
EverGuard TPO is resistant to many chemicals. For further information, please consult the Everguard TPO chemical resistance list.

EverGuard TPO membranes can be applied on EPS insulation boards only by using membrane with a minimum thickness of 1,5 mm in conjunction with a glass fleece with a minimum 120 g/m² density as a fire protection layer.

Edition 3, March 2019. This information is provided in good faith being based on the latest knowledge available to BMI Group Management UK Limited. Whilst every effort has been made to ensure that the contents of the publication are current while going to press, customers are advised that products, techniques and codes of practice are under constant review and liable to change without notice. Deviances may occur and no warranty is given in relation to the accuracy of this datasheet. The customer will have to make its own determination whether the product is fit for the intended purpose. This datasheet is only relevant for the present delivery and specifications of future deliveries may be different. Our general conditions of sale as deposited with the UK (or BMI local entity) Chamber of Commerce file no. 09987127 apply to all our deliveries.



Mechanically Fastened Exposed Roof System



Warm Ballasted Roof System

TECHNICAL DATA

Characteristics	Value of Statement	Tolerance	Test method
Visible defects	Pass	-	EN 1850-2
Length	20 m or 30 m	-0 / +5 %	EN 1848-2
Width	1.52 m or 3.03 m	-0.5 / +1 %	EN 1848-2
Straightness	≤ 30 mm / 5 m	-	EN 1848-2
Flatness	≤ 10 mm	-	EN 1848-2
Mass per unit area	1.22, 1.53, 1.84, 2.05 kg/m ²	-5 / +10 %	EN 1849-2
Effective thickness	1.2 mm, 1.5 mm, 1.8 mm and 2.0 mm	-5 / +10 %	EN 1849-2
Water tightness	Pass	-	EN1928 (B)
External fire performance	B _{ROOF} *	-	ENV 1187, EN 13501-5
Reaction to fire	Class E	-	EN 13501-1
Peel resistance of joints	≥ 150 N / 50 mm	-	EN 12316-2
Shear resistance of joints	≥ 800 N / 50 mm	-	EN 12317-2
Tensile strength	≥ 1150 (MD) / 1150 (CD) N / 50 mm	-	EN 12311-2 (A)
Elongation MD and CD	≥ 20 %	-	EN 12311-2 (A)
Resistance to impact	≥ 400 / 1150 mm	-	EN 12691 (A / B)
Resistance to static loading method A/B	≥ 20 kg ≥ 15 kg	-	EN 12730 (A / B)
Tear resistance	≥ 375 N ≥ 475 N	-	EN 12310-2
Dimensional stability	≤ 0.4 % / ≤ 0.3 %	-	EN 1107-2
Foldability at low temperature	≤ -25 °C	-	EN 495-5
Durability UV, heat and water 5000 h UV	Pass	-	EN 1297
Hail resistance	≥ 25 / 39 m/s	-	EN 13583
Water vapour properties	100.000	-	EN 1931

* For more details on tested roofing systems, please contact BMI Technical Department.

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