

X-Pruf PolyLiner TPO EG

Flexible reinforced TPO waterproofing membrane

Product Description

X-Pruf PolyLiner TPO EG is a thermo-plastic olefin based sheet membrane used as a waterproof geomembrane for water features, lagoons, sewage treatment ponds, tunnels and landfill sites. It is also used as UV resistant roof waterproofing membrane that can be left exposed to direct sunlight.

The membrane is also designed for mechanical fastening on flat and low-sloped roofs.

X-Pruf PolyLiner TPO EG is reinforced with a polyester fabric.

Advantages

- UV resistant
- Superior weather and environmental resistance
- Wind load resistant
- Continuously extruded sheet
- Easy to weld
- Compatible with bitumen-based membranes
- Not affected by ponded water
- Suitable for use in hot and cold climates
- Recyclable product
- Has low carbon footprint

Uses

X-Pruf PolyLiner TPO EG has been developed to provide a tough chemical resistant water and gas proof membrane liner for the following applications:

- Water features
- Artificial lakes
- Roofs
- Tunnels
- Basements

Standards Compliance

EN 13956

Shelf life

5 years from production date.

Storage

Store in original packaging, in cool dry conditions, away from sunlight, in a flat position on a pallet.

Typical Properties

Property	Test Method	Typical Results
Thickness	EN 1849-2	1.5 mm
Mass per unit area	EN 1849-2	1.9 kg/m ²
Water tightness (10kPa)	EN 1928 (A)	Pass
Tensile strength L/T	EN 12311-2 (A)	≥ 1050 N/50 mm
Elongation L/T	EN 12311-2 (B)	≥ 15%
Resistance to impact	EN 12691 (A)	≥ 600 mm
Resistance to static load	EN 12730 (C)	≥ 20 kg
Tear resistance L/T	EN 12310-2	≥ 400 N
Joint peel resistance	EN 12316-2	≥ 600 N/50 mm
Joint shear resistance	EN 12317-2	≥ 800 N/50 mm
Foldability at low temp.	EN 495-5	≤ -25°C
Exposure to UV	EN 1297	Pass > 5000 h
Reaction to fire	EN 13501-1	Class E

Packaging

X-Pruf PolyLiner TPO EG is supplied in 1.6 x 20m rolls as standard.

Color

Available in white Grey White, light grey, silver grey and dark grey.

Installation Guidelines

X-Pruf PolyLiner TPO EG can only be applied by an NCC X-Calibur Registered Contractor using trained personnel and the correct equipment. NCC X-Calibur does not allow any contractor on to the register unless they satisfy strict selection criteria. NCC X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Health and Safety

This product is for industrial use only by trained operatives. It is not considered hazardous in normal use. Please refer to the Material Safety Datasheet before use. The MSDS can be obtained via our website www.ncc.com.eg

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATs.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Systems Inc. makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied. NCC X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.