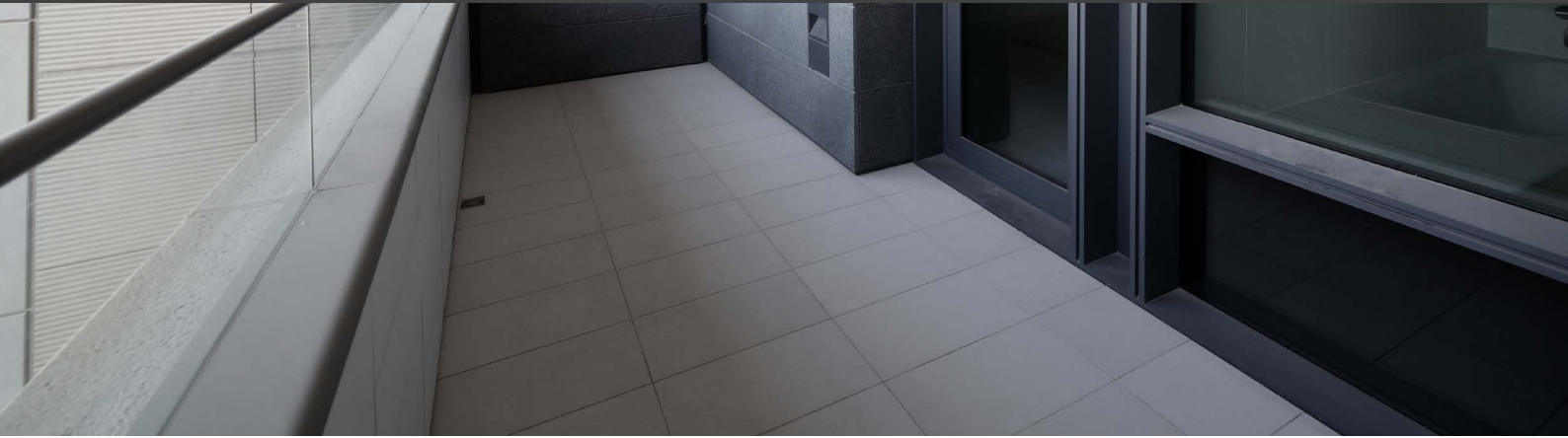


TPO ROOFING MEMBRANE

ROOFING AND WATERPROOFING MEMBRANE
WITH CENTRALLY EMBEDDED GLASS FLEECE



TPO ROOFING MEMBRANES are used to waterproof unventilated and ventilated flat roofs, pitched roofs, green roofs, terraces, balconies, roof gardens and underground garages with ballast and in cases of direct exposure to weathering. **TPO ROOFING MEMBRANES** can be used for the waterproofing of wet rooms and tanks.

FEATURES

- Uniform material quality (no difference between upper and lower side)
- Homogeneous seam bonding with hot air welding
- Temperature and weather resistant.
- Aging and rot resistant.
- High cold flexibility (<+ -50°C).
- UV stable.
- High SRI value of 106 (Solar Reflective Index).
- Root resistant.
- Compatible with bitumen.
- Compatible with polystyrene.
- Suitable for all types of insulation.
- Resistant against normal mechanical stresses.
- Resistant to microorganisms and rodent attack.
- Environmentally friendly.
- Free of softeners and chlorine.
- Safe for health, water, soil and plants.
- Recyclable.

PACKAGING

2.0m x 1.5m x 20m

APPLICATION

Please refer to the installation instructions for correct application of **TPO ROOFING MEMBRANES**.



Technical Data		
	DIN EN 13956: 2012 Waterproofing of flat and sloped roofs. Application by loose laying with ballast or mechanical fastening.	DIN EN 13967: 2012 Vapor Barrier Type T
Designation according DIN V 20000-201 and DIN V 20000-202	DE/E1-FPO-BV-E-GV-2,0	BA-FPO-BV-E-GV-2,0
Color	Light Grey	Light Grey
Visible defects according to DIN EN 1850-2	Free from visible defects	Free from visible defects
Straightness according to DIN EN 1848-2	≤ 50 mm	≤ 50 mm
Flatness according to DIN EN 1848-2	≤ 10 mm	
Mass per unit area according to DIN EN 1849-2	1930 g /m ²	1930 g /m ²
Water tightness according to DIN EN 1928 (Method B)	10 kPa/24h watertight	400 kPa/72h watertight
Exposure to liquid chemicals, including water according to DIN EN 1847	Passed (Method B)	Watertight (Method A)
Exposure to external fire according to DIN CEN/TS 1187; DIN 4102-7; DIN EN 13501-5	B _{roof} (t1); B _{roof} (t4)1	-
Reaction to fire according to EN 1350-1	Class E	Class E
Resistance to hail according to DIN EN 13583 Rigid substrate Soft substrate	≥ 25 m/s ≥ 40 m/s	- -
Peel resistance of the overlap according to DIN EN 12316-2	≥ 500 N/50mm	-
Shear resistance of the overlap according to DIN EN 12317-2	Failure beyond the overlap	Failure beyond the overlap
Water vapor diffusion resistance according to DIN EN 1931	μ = 85,000	μ = 85,000
Tensile characteristics according to DIN EN 12311-2 Tensile strength Elongation at break	≥ 7 N/mm ² (Method B) ≥ 500 % (Method B)	≥ 7 N/mm ² (Method B) ≥ 500 % (Method B)
Resistance to shock loads according to DIN EN 12691 Method A Method B	≥ 750 mm ≥ 1250 mm	≥ 750 mm ≥ 1250 mm
Resistance to static loading according to DIN EN 12730 Method A Method B	≥ 20 kg ≥ 20 kg	≥ 20 kg ≥ 20 kg
Tear continuation resistance according to DIN EN 12310-2	≥ 200 N	≥ 200 N
Root penetration resistance	Given	-
Dimensional stability according to DIN EN 1107-2	≤ -0.2 %	≤ -0.2 %
Folding at low temperatures according to DIN EN 495-5	≤ - 50°C	-
Behavior under UV irradiation, elevated temperatures, and water according to DIN EN 1297 (1000 h)	Passed: Level 0	-
Ozone resistance according to DIN EN 1844	Passed	-
Exposure to bitumen according to DIN EN 1548	Passed	Watertight
Durability against heat storage according to DIN EN 1296, DIN EN 1928 (Method A)	Watertight	Watertight
Tear resistance (nail shank) according to DIN EN 12310-1	≤ 600 N	≤ 600 N

The information contained in this data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective successful applications. This guideline has been technically revised; all previous versions are invalid.

Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by **ATECH**® either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not **ATECH**® are responsible for carrying out procedures appropriate to a specific application.

Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

Safety Precautions

These products may cause allergic reactions through skin contact, goggles, protective gloves and overalls must be worn. Ensure that there is adequate ventilation and avoid breathing the vapour.

Exclusion Clause

1. The information contained in this data sheet is based on many years experience and is correct to the best of our knowledge. **ATECH**® will be under no liability whatsoever whether in:
 - a) Contract or tort (including, without limitation, negligence)
 - b) Breach of statute
 - c) Any other legal or equitable obligation other than the quality of the product at the time of despatch.
2. Any queries about specification use or application should be directed to our technical service department immediately.
3. This exclusion clause does not operate to exclude any warranty that by law may not be excluded.

