

Monarplan FM 1.8mm

Monarplan FM is a Polyvinyl Chloride (PVC), polyester reinforced single-ply roofing membrane.

INTENDED USE

Monarplan FM membrane is intended for use as an exposed membrane in mechanically fastened systems. It may also be used as the detailing sheet in conjunction with Monarplan GF Fleeceback membrane. Membranes should be installed in accordance with the manufacturer's guidelines.

Upper Surface	Smooth PVC surface - RAL7001 (grey) - RAL 7015 (anthracite)
Lower Surface	Smooth PVC surface - Anthracite / Black
Material	Polyvinyl Chloride (PVC)
Type of Reinforcement	Polyester

Characteristic	Test Method	Value or Statement	Tolerance	Units
Length	BS EN 1848-2	15	-0/+5%	m
Width	BS EN 1848-2	1.65	-0/+5%	m
Mass per unit area	BS EN 1849-2	2.34	-5/+10 %	kg·m ²
Effective thickness	BS EN 1849-2	1.8	-5/+10 %	mm
Water tightness	BS EN 1928 (B)	pass	-	-
External fire performance*	BS EN 13501-5	B _{ROOF} (t4)	-	-
Reaction to fire	BS EN 13501-1	Class E	-	-
Tensile strength	BS EN 12311-2 (A)	≥ 900	-	N/50 mm
Elongation	BS EN 12311-2 (A)	≥ 15	-	%
Dimensional stability	BS EN 1107-1	≤ 0.5	-	%
Water vapour diffusion value	EN 1931	μ = 22'000	-	-
Resistance to impact	BS EN 12691 (B)	500	-	mm
Joint peel resistance	EN 12316-2	≥ 185	-	N/50 mm
Resistance to Cold Blend	EN 495-5	≤ -35	-	°C

MD = Machine Direction. TD = Transverse Direction.

PACKAGING

Description	Roll Dimensions	Rolls per pallet	Product Code
Monarplan FM 1.8mm Anthracite	15m x 1.65m	15	10001476
Monarplan FM 1.8mm Grey	15m x 1.65m	15	10001473

STORAGE

The membranes are delivered to site in rolls packed on pallets. Store and protect materials from mechanical damage and shelter from rain and sun.

They must be stored horizontal on a flat surface and kept dry at a temperature between 0 °C and +40 °C.

Materials temporarily kept outdoors or on the roof during construction should be given the same protection.

Exercise caution and do not exceed the allowable live load of the structure.

INSTALLATION SUMMARY

Monarplan FM membranes are installed by mechanical fixation. The membrane is to be installed in accordance with manufacturer's instructions and current and relevant standards such as BS 6229 and SPRA's Design Guide.

For further details please consult our Flat Roofing Product Installation Guidelines or contact our BMI Icopal technical services team.

TECHNICAL SERVICES

For further information and technical support, please contact our technical services team:

T: +44 (0) 330 123 4585

E: technical.uk@bmigroup.com

CERTIFICATION

Monarplan FM has been independently site and laboratory tested by the British Board of Agrément, and awarded BBA certificate number 10/4739 (PS1).



SAFETY, QUALITY & ENVIRONMENT

BMI Icopal synthetic membranes are distributed under a Quality Management System approved to ISO 9001: 2015 and an Environmental Management System approved to ISO 14001: 2015, by TÜV NORD CERT GmbH.

Information regarding transportation, handling, storage and disposal can be found on the Safety Data Sheets.



BMI Group UK Limited

BMI House, 2 Pitfield, Kiln Farm, Milton Keynes, MK11 3LW
bmigroup.com/uk

Product, technical standards and codes of practice are under constant review. We reserve the right to change and amend products and information without prior notice. For the latest information, suitability and specification advice, please contact BMI Icopal technical services team.