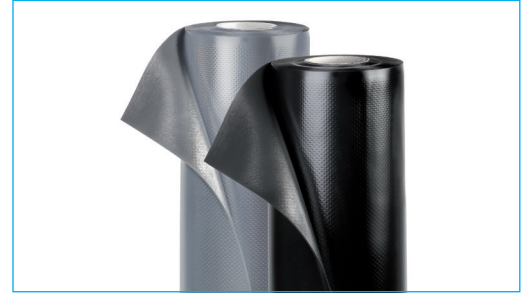


Wolfin M FR

High-polymer, bitumen-compatible synthetic roofing and waterproofing membrane with a central reinforcement and special flame protection equipment. The membrane is produced by extrusion method.

TYPES AND APPLICATION AREAS

Wolfin M FR	With central glass grid reinforcement and special flame protection equipment	
Membrane width	1,620 mm	
Nominal thickness	1.5 mm / 2.0 mm	
Colour	Black, grey (only 2.0 mm)	
New buildings and refurbishments	<ul style="list-style-type: none"> ▪ Mechanically fixed 	
Wolfin M FR is certified, approved and classified according to	<ul style="list-style-type: none"> ▪ EN 13956 CE Waterproofing of Roofs ▪ Fulfils all German requirements (DIN standards) for waterproofing of roofs ▪ EN 13501-1 (Class E) ▪ CEN/TS 1187 	<ul style="list-style-type: none"> ▪ EN 13501-5 B_{roof}(t1) ▪ Approved according to FM-Global <ul style="list-style-type: none"> ▪ ASTM E 108 Class A 1-12 / Class B 2-12 ▪ ANSI SPRI 4470 F75
Characteristics of Wolfin M FR	<ul style="list-style-type: none"> ▪ Content of high polymer substances more than 94% ▪ Reinforced with integrated glass grid ▪ Equipped with homogeneous membrane edge ex-works ▪ With special flame protection equipment ▪ More than 55 years of practical experience with Wolfin membranes ▪ More than 25 years of practical experience with glass grid reinforcement ▪ Permeable to water vapour diffusion 	<ul style="list-style-type: none"> ▪ My-value $\leq 10,000$ (+/- 3,000) ▪ Dry-out process of wet roof structures is proven by the Fraunhofer Institut Holzkirchen ▪ Free of toxic heavy metals ▪ Ozone and UV resistant ▪ Low filler load ▪ High chemical resistance ▪ Chemical resistance to all insulation material ▪ Resistant to plant roots and rhizome according to FLL test method
System parts and accessories	<ul style="list-style-type: none"> ▪ Internal and external corners ▪ Homogeneous material (Wolfin IB) ▪ Coated metal sheets (plates/coils) ▪ Lightning protection and fastening elements 	<ul style="list-style-type: none"> ▪ Stainless-steel drainage and ventilation elements ▪ System adhesives (Teroson AD 914, Teroson AD Adhesive Spray)



TECHNICAL DATA

Product information according to EN 13956

▪ Exposed application (mechanically fixed)

Characteristic	Testing standard	Unit	Result* 1.5 mm	Result** 2.0 mm
Visible defects	EN 1850-2	-	passed	passed
Length	EN 1848-2	m	15	10
Width	EN 1848-2	m	1,62	1,62
Straightness	EN 1848-2	mm	≤ 50	≤ 50
Flatness	EN 1848-2	mm	≤ 10	≤ 10
Mass per unit area	EN 1849-2	kg/m ²	1,9	2,5
Effective thickness	EN 1849-2	mm	1,5	2,0
Watertightness	EN 1928 Method B	kPa	passed	passed
External fire performance	CEN/TS 1187	-	B _{Roof} (t1) (EN 13501-5)**	
Reaction to fire	EN 13501-1	-	Class E	Class E
Joint peel resistance	EN 12316-2	N/50 mm	≥ 300	≥ 300
Joint shear resistance	EN 12317-2	N/50 mm	≥ 800	≥ 800
Tensile strength longitudinal and transversal	EN 12311-2	N/50 mm	≥ 800	≥ 800
Elongation longitudinal and transversal	EN 12311-2	%	≥ 2	≥ 2
Resistance to impact Method A	EN 12691	mm	≥ 600	≥ 750
Method B	EN 12691	mm	≥ 600	≥ 750
Resistance to static load	EN 12730 Method A	kg	≥ 20	≥ 20
Durability of watertightness against ageing	EN 1296 EN 1928	-	passed	passed
Durability of watertightness against chemicals	EN 1847 EN 1928	-	passed	passed
Resistance to nail tear	EN 12310-1	N	≥ 400	≥ 400
Tear resistance longitudinal and transversal	EN 12310-2	N	≥ 200	≥ 200
Resistance to root penetration	EN 13948	-	passed	passed
Dimensional stability longitudinal and transversal	EN 1107-2	%	≤ 0,5	≤ 0,5
Foldability at low temperature	EN 495-5	°C	≤ -20	≤ -20
UV exposure	EN 1297	visual	passed	passed
Hail resistance	EN 13583	m/s	≥ 25	≥ 25
Water vapour permeability	EN 1931	μ	10,000 ± 3,000	
Bitumen compatibility	EN 1548	-	passed	passed

* Values in new condition

** Valid for the respective proofed roof structure

Date: 05/2021. This technical data sheet was produced according to the latest technical knowledge and standards. Technical changes due to further developments are possible.

You can find the declarations of performance on our website www.bmigroup.de/Downloads.

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