

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 ▪ My-value $\leq 10,000$ (+/- 3,000) ▪ Dry-out process of wet roof structures is proven by the Fraunhofer Institut Holzkirchen 	<ul style="list-style-type: none"> ▪ Free of toxic heavy metals ▪ Ozone and UV resistant ▪ Low filler load ▪ Unique chemical resistance : <ul style="list-style-type: none"> ▪ Resistant to bitumen, flux oils, mineral oils, fatty acid, kerosene ▪ Proof of the resistance to sulphurous acid and lactic acid (85%) ▪ Further resistances according to WHG (Water Resources Law) Media Group 3 ▪ 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)

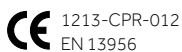
Characteristic	Testing standard	Unit	Details	Result* 1.5 mm	Result* 2.0 mm
Visible defects	EN 1850-2	-	passed	passed	passed
Length	EN 1848-2	m	MDV	15	10
Width	EN 1848-2	m	MDV	1,62	1,62
Straightness	EN 1848-2	mm	MLV	≤ 50	≤ 50
Flatness	EN 1848-2	mm	MLV	≤ 10	≤ 10
Mass per unit area	EN 1849-2	kg/m ²	MDV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

MDV = manufacturer's declared value

MLV = manufacturer's limiting value

* Values in new condition

Date: 01.2020. This technical data sheet was produced according to the latest technical knowledge and standards. Technical changes due to further developments are possible.



1213-CPR-012
EN 13956

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

Technical support

T +49 6053 708-5141

E awt.beratung.de@bmigroup.com

Wolfen Bautechnik GmbH

Am Rosengarten 5

63607 Wächtersbach Neudorf

T +49 6053 708-0

F +49 6053 708-5130

E export.wolfen.de@bmigroup.com

bmigroup.com/de