

# Wolfin M

HIGH-POLYMER, BITUMEN-COMPATIBLE SYNTHETIC ROOFING AND WATERPROOFING MEMBRANE WITH A CENTRAL REINFORCEMENT. THE MEMBRANE IS PRODUCED BY EXTRUSION METHOD.

## TYPES AND APPLICATION AREAS

Wolfin M	With central glass grid reinforcement, entirely homogeneous (no different top, middle and under layer)
Membrane width	1,100 mm / 1,620 mm
Nominal thickness	1.5 mm / 2.0 mm
Colour	Black, grey
New buildings and refurbishments	<ul style="list-style-type: none"> <li>Loose-laid under ballast</li> <li>Mechanically fixed</li> </ul>



Wolfin M is certified, approved and classified according to

- EN 13956 CE Waterproofing of Roofs
- EN 13967 CE Waterproofing of Buildings
- Fulfils all German requirements (DIN standards) for waterproofing of roofs
- Fulfils UK requirements according to BBA (certificate 14/5143)
- EN 13501-1 (Class E)
- CEN/TS 1187
- EN 13501-5 B<sub>Roof</sub>(t1) + B<sub>Roof</sub>(t4)
- LEED v4 (Leadership in Energy and Environmental Design)
- ISO 14025 / EN 15804 Environmental Product Declaration (EPD)

Characteristics of Wolfin M

- Content of high polymer substances more than 94%
- Reinforced with integrated glass grid
- Equipped with homogeneous membrane edge ex-works
- 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
- Free of toxic heavy metals
- Free of flame retardants
- Ozone and UV resistant
- Low filler load
- Unique chemical resistance :
  - 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

- Membrane strips
- Internal and external corners
- Homogeneous material (Wolfin IB)
- Coated metal sheets (plates/coils)
- Lightning protection and fastening elements
- 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)
- Under ballast (gravel, green roof, traffic areas or similar ...)

**EN 13967**

- Damp-proof sheets
- Basement tanking sheets

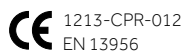
Characteristic	Testing standard	Unit	Details	Result* 1.5 mm	Result* 2.0 mm
Visible defects	EN 1850-2	-	passed	passed	passed
Length	EN 1848-2	m	MDV	15	10
Width	EN 1848-2	m	MDV	1,10 / 1,62	1,10 / 1,62
Straightness	EN 1848-2	mm	MLV	≤ 50	≤ 50
Flatness	EN 1848-2	mm	MLV	≤ 10	≤ 10
Mass per unit area	EN 1849-2	kg/m <sup>2</sup>	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 <sub>roof</sub> (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	≤ 1	≤ 1
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 (90 days / 70°C)	EN 1548	-	passed	passed	passed

MDV = manufacturer's declared value

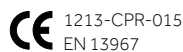
MLV = manufacturer's limiting value

\* 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



1213-CPR-015  
EN 13967

You can find the declarations of performance  
on our website [www.bmigroup.com/de/](http://www.bmigroup.com/de/) / Downloads.

**Technical support**

**T +49 6053 708-5141**

**E [awt.beratung.de@bmigroup.com](mailto: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](mailto:export.wolfen.de@bmigroup.com)

**[bmigroup.com/de](http://bmigroup.com/de)**