

# Technical Information

## WOLFIN® M



WOLFIN M is a high-polymer, entirely homogeneous synthetic roofing and waterproofing membrane (no different top, middle and under layer) with a central reinforcement. The membrane is produced by extrusion method.

### WOLFIN M is certified, approved and classified according to:

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| <ul style="list-style-type: none"> <li>• EN 13956 CE- Waterproofing of Roofs</li> <li>• EN 13967 CE- Waterproofing of Buildings</li> <li>• Fulfills all German requirements (DIN standards) for waterproofing of roofs and buildings</li> <li>• Fulfills UK requirements according BBA (certificate 14/5143)</li> </ul> | <ul style="list-style-type: none"> <li>• EN 13501-1 (Class E)</li> <li>• ENV 1187 / EN 13501-5</li> <li>• External fire = B<sub>ROOF</sub> (t1), B<sub>ROOF</sub> (t4) valid for the respective proofed roof structure</li> <li>• LEED v4 (Leadership in Energy and Environmental Design)</li> <li>• EN 15804 Environmental Product Declaration (EPD)</li> </ul> |
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### Characteristics of WOLFIN M:

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| <ul style="list-style-type: none"> <li>• Content of high polymer substances more than 94%</li> <li>• Reinforced with integrated glass grid</li> <li>• Factory-finished equipped with homogeneous membrane edge</li> <li>• More than 50 years long-term and practical experiences with WOLFIN membranes</li> <li>• More than 20 years long-term and practical experiences with glass grid reinforcement</li> <li>• Permeable to water vapour diffusion</li> <li>• My-value ≤ 10.000 (+/- 3.000)</li> <li>• Dry-out process of moisturized roofs is proven by the Fraunhofer Institut Holzkirchen</li> <li>• Free of toxic heavy metals</li> <li>• Free of flame retardants</li> </ul> | <ul style="list-style-type: none"> <li>• Ozone and UV resistant</li> <li>• Low filler load</li> <li>• Unique chemical resistance:             <ul style="list-style-type: none"> <li>• Resistant to bitumen, flux oils, mineral oils, fatty acid, kerosene</li> <li>• Proof of the resistance to sulphurous acid and lactic acid (85%)</li> <li>• Further resistance according to WHG (German water resources act) media group 3</li> </ul> </li> <li>• Chemical resistance to all insulation material</li> <li>• Resistant to plant roots and rhizomes according to FLL-test method</li> </ul> |
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### Types and application areas:

WOLFIN M:	with central glass grid reinforcement
Membrane width:	1.100 mm / 1.620 mm
Nominal thickness:	1,5 mm / 2,0 mm
New building and refurbishment	Loose laid under ballast or mechanically fixed
Colour:	Black, grey

### System parts and accessories:

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| <ul style="list-style-type: none"> <li>• Membrane strips</li> <li>• Internal and External Corners</li> <li>• Homogeneous material (WOLFIN IB)</li> <li>• Coated Metal Sheets (Plates/Coils)</li> </ul> | <ul style="list-style-type: none"> <li>• Lightning protection and fastening elements</li> <li>• Stainless steel drainage and ventilation elements</li> <li>• System adhesives (Teroson AD 914, Teroson AD Adhesive Spray)</li> </ul> |
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**Technical support: +49 6053 708-5141**

**Part of BMI Group**

This technical data sheet was produced according to the latest technical knowledge and standards of WOLFIN Bautechnik GmbH, Am Rosengarten 5, 63607 Wächtersbach-Neudorf. Technical changes due to further developments are possible.

### Product information according EN 13956 and EN 13967

#### EN 13956

Exposed application (mechanically fixed)  
Under ballast (gravel, green roofing, traffic areas or similar...)

#### EN 13967

Damp proof sheets  
Basement tanking sheets

Characteristic	Test standard	Unity	Details	Result* 1,5 mm	Result* 2,0 mm
Visible defects	EN 1850-2	-	passed	passed	
Length	EN 1848-2	m	MDV	15	10
Width		m	MDV	1,1 / 1,62	
Straightness		mm	MLV	≤ 50	
Flatness		mm	MLV	≤ 10	
Mass per unit area		EN 1849-2	kg/m <sup>2</sup>	MDV	1,9
Effective thickness	mm		MDV	1,5	2,0
Water tightness	EN 1928 B	kPa	MLV	passed	
External fire protection	ENV 1187	-	Annex E	B <sub>Roof</sub> (t1) + B <sub>Roof</sub> (t4)	
Reaction to fire	EN 13501-1	-	s. 5.2.5.2	Class E	
Joint peel resistance	EN 12316-2	N/50 mm	MLV	≥ 300	
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 800	
Tensile strength	EN 12311-2	N/50 mm	MLV	≥ 800	
Elongation		%	MLV	≥ 2	
Resistance to impact	EN 12691	mm	MLV	600	750
Method A					
Method B	EN 12691	mm	MLV	600	750
Resistance to static load	EN 12730 Method B	kg	MLV	≥ 20	
Durability of water tightness against aging	EN 1296 EN 1928	-	passed	passed	
Durability of water tightness against chemicals	EN 1847 EN 1928	-	passed	passed	
Resistance to nail tear	EN 12310-1	N	MLV	≥ 400	
Tear resistance	EN 12310-2	N	MLV	≥ 200	
Resistance to root penetration	EN 13948	-	passed	passed	
Dimensional stability	EN 1107-2	%	MLV	≤ 1	
Foldability at low temperature	EN 495-5	°C	MLV	≤ -20	
UV exposure	EN 1297	visual	passed	passed	
Hail resistance	EN 13583	m/s	MLV	≥ 25	
Water vapour permeability	EN 1931	-	μ = MDV or 15.000	10.000 ± 3.000	
Bitumen compatibility	EN 1548	-	passed	passed	

Explanation: MDV = Manufacturer's declared value  
MLV = Manufacturer's limiting value  
\* Values in new conditions



1213-CPR-015  
EN 13956



1213-CPR-015  
EN 13967

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

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