

# Wolfin PBS

WOLFIN PBS WITH PROTECT EQUIPMENT IS A HIGH-POLYMER, BITUMEN-COMPATIBLE SYNTHETIC ROOFING AND WATERPROOFING MEMBRANE EQUIPPED WITH INTEGRATED SPECIAL GLASS FLEECE AND TORCHABLE BITUMEN LAYER ON THE BOTTOM SIDE.

## TYPES AND APPLICATION AREAS

Wolfin PBS	With special glass fleece reinforcement and torchable bitumen layer, entirely homogenous (no different top, middle and under layer)	
Membrane width	1,100 mm	
Nominal thickness	2.5 mm (3.0 mm on request)	
Colour	Black	
New buildings and refurbishments	<ul style="list-style-type: none"> <li>Fully bonded, only ballasted</li> </ul>	
Wolfin PBS with Protect Equipment is certified, approved and classified according to	<ul style="list-style-type: none"> <li>EN 13967 CE Waterproofing of Buildings</li> <li>Fulfils all German requirements (DIN standards) for waterproofing of buildings</li> </ul>	<ul style="list-style-type: none"> <li>EN 13501-1 (Class E)</li> </ul>
Characteristics of Wolfin PBS	<ul style="list-style-type: none"> <li>Content of high polymer substances more than 94%</li> <li>Reinforced with central special glass fleece</li> <li>Equipped with torchable bitumen layer (fully applied) ex-works</li> <li>More than 55 years of practical experience with Wolfin membranes</li> <li>More than 35 years of practical experience with adhesive</li> <li>More than 25 years of practical experience with Wolfin membranes and adhesive layer</li> <li>My-value <math>\leq 30,000</math> (+/- 10,000) incl. bitumen layer</li> <li>Free of toxic heavy metals</li> </ul>	<ul style="list-style-type: none"> <li>Free of flame retardants</li> <li>Suitable for hot-air and solvent welding throughout its lifetime</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 resistances according to WHG (Water Resources Law) Media Group 3</li> </ul> </li> <li>Chemical resistance to all insulation material</li> <li>No underflowing of water due to the torchable bi-tumen layer on the bottom side</li> </ul>
System parts and accessories	<ul style="list-style-type: none"> <li>Internal and external corners</li> <li>Homogeneous material (Wolfin IB)</li> <li>Wolfin primer</li> </ul>	<ul style="list-style-type: none"> <li>Coated metal sheets (plates/coils)</li> <li>Lightning protection and fastening elements</li> <li>Stainless-steel drainage and ventilation elements</li> </ul>



## TECHNICAL DATA

Product information according to  
**EN 13967**

- Damp-proof sheets
- Basement tanking sheets

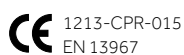
Characteristic	Testing standard	Unit	Details	Result* 2.5 mm	Result* 3.05 mm
Visible defects	EN 1850-2	-	passed	passed	passed
Length	EN 1848-2	m	MDV	15	10
Width	EN 1848-2	m	MDV	1,1	1,1
Straightness	EN 1848-2	mm	MLV	≤ 50	≤ 50
Flatness	EN 1848-2	mm	MLV	≤ 10	≤ 10
Mass per unit area	EN 1849-2	kg/m <sup>2</sup>	MDV	2,9	3,5
Effective thickness	EN 1849-2	mm	MDV	1,5	2,0
Watertightness	EN 1928 Method B	kPa	MLV	passed	passed
Reaction to fire	EN 13501-1	-	-	Class E	Class E
Joint peel resistance	EN 12316-2	N/50 mm	MLV	NPD	NPD
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 600	≥ 600
Tensile strength longitudinal and transversal	EN 12311-2	N/50 mm	MLV	≥ 10	≥ 10
Elongation longitudinal and transversal	EN 12311-2	%	MLV	≥ 200	≥ 200
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	≥ 350	≥ 350
Tear resistance longitudinal and transversal	EN 12310-2	N	MLV	≥ 150	≥ 150
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	30,000 ± 10,000	30,000 ± 10,000
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.



**Technical support**

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