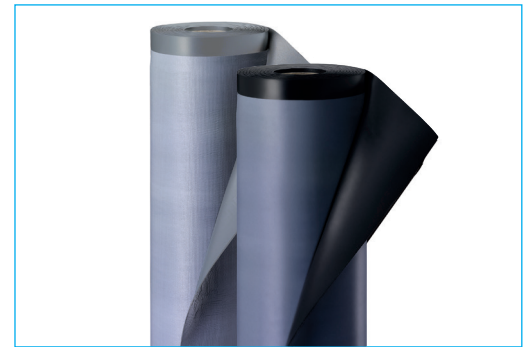


# Wolfin GWSK

**Wolfin GWSK is a high-polymer, bitumen-compatible synthetic roofing and waterproofing membrane with integrated special glass fleece and cold-bonding self-adhesive layer. The Membrane is produced by extrusion method.**

## TYPES AND APPLICATION AREAS

Wolfin GWSK	With special glass fleece in the middle and self-adhesive layer, entirely homogeneous (no different top, middle and under layer)
Membrane width	1,100 mm / 1,620 mm
Nominal thickness	2.3 mm (2.8 mm on request)
Colour	Black, grey
New buildings and refurbishments	<ul style="list-style-type: none"> <li>▪ Under ballast</li> <li>▪ Fully bonded</li> <li>▪ Waterproofing of buildings</li> </ul>



Wolfin GWSK is certified, approved and classified according to

- EN 13956 (CE-certificate N° 1213-CPR-012)
- EN 13967 (CE-certificate N° 1213-CPR-015)
- 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)\*

Characteristics of Wolfin GWSK

- Content of high polymer substances more than 94%
- Reinforced with integrated special glass fleece
- Equipped with self-adhesive layer ex-works
- More than 55 years of practical experience with Wolfin membranes
- More than 35 years of practical experience with adhesive
- More than 25 years of practical experience with Wolfin membranes with self-adhesive layer
- Permeable to water vapour diffusion
- My-value  $\leq 25,000$  (+/- 7,500) incl. self-adhesive layer
- Dry-out process of wet roof structures is proven by the Fraunhofer Institut Holzkirchen
- Free of toxic heavy metals
- Free of flame retardants
- Suitable for hot-air and solvent welding throughout its lifetime
- High chemical resistance
- Chemical resistance to all insulation material
- Resistant to plant roots and rhizome according to FLL test method
- Limitation of the ingress of water by the ex-works self-adhesive layer

System parts and accessories

- Self-adhesive membrane strips
- Internal and external corners
- Coated metal sheets (plates/coils)
- Wolfin primer and Wolfin special primer
- Homogenous membrane material (Wolfin IB)
- Stainless-steel drainage and ventilation elements
- Lightning protection and fastening elements
- System adhesives (Teroson AD 914, Teroson AD Adhesive Spray)

\* Valid for the respective proofed roof structure

## TECHNICAL DATA

### Product information according to EN 13956

- Exposed application (bonded)
- Under ballast (gravel, green roof, traffic areas or similar ...)

### EN 13967



- Damp-proof sheets
- Basement tanking sheets

Characteristic	Testing standard	Unit	Result* 2.3 mm	Result* 2.8 mm
Visible defects	EN 1850-2	-	passed	passed
Length	EN 1848-2	m	15 / 10	10 / 10
Width	EN 1848-2	m	1.10 / 1.62	1.10 / 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 <sup>2</sup>	2.7	3.3
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 <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	NPD	NPD
Joint shear resistance	EN 12317-2	N/50 mm	≥ 600	≥ 600
Tensile strength longitudinal and transversal	EN 12311-2	N/50 mm	≥ 10	≥ 10
Elongation longitudinal and transversal	EN 12311-2	%	≥ 200	≥ 200
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	≥ 350	≥ 350
Tear resistance longitudinal and transversal	EN 12310-2	N	≥ 150	≥ 150
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	25,000 ± 7,500	25,000 ± 7,500
Bitumen compatibility	EN 1548	-	passed	passed

\* Values in new condition

\*\* Valid for the respective proofed roof structure

## SUSTAINABILITY INFORMATION WOLFIN GWSK

EPD declaration number	EPD-BMI-2020-0174-IBB1-DE, specific EPD Wolfin	 
	<p>Wolfin GWSK declaration data is stored with the IBU, in the oekobaudat database and in the DGNB Navigator.</p> <p>Wolfin GWSK membranes are, among other things, suitable for certified buildings in accordance with DGNB, BNB and Leed v4.</p>	
Manufacturer declarations	<ul style="list-style-type: none"><li>▪ REACH: Product does not contain any substances that meet the REACH criteria for substances of very high concern</li><li>▪ Heavy metals Lead, cadmium and organotin compounds: &lt;0.1 % (DGNB ENV 1.2 quality level 1-4 / BNB 1.1.1-1.1.5 quality level 1-5)</li><li>▪ SVHC phthalates (plasticisers): &lt;0.1 % (DGNB quality level 1-4)</li><li>▪ SVHC: Product contains no substances of very high concern (BNB 1.1.1-1.1.5 quality level 1-5)</li><li>▪ VOC content: &lt; 0.1 %</li></ul>	
Recycling & disposal	<ul style="list-style-type: none"><li>▪ Wolfin GWSK membranes can be thermally recycled</li><li>▪ EU waste codes<ul style="list-style-type: none"><li>▪ Transport packaging: 15 01 02, 15 01 03</li><li>▪ Product packaging: 15 01 02</li><li>▪ Product end of life: 17 09 04</li></ul></li><li>▪ Interseroh number: 210284</li></ul>	

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](http://www.bmigroup.de/Downloads).

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