

# Technical Information

## WOLFIN® GWSK



WOLFIN GWSK with Protect Equipment is a high-polymer, entirely homogeneous (no different top, middle and under layer) synthetic roofing and waterproofing membrane with integrated special glass fleece and cold-bonding self-adhesive layer. The membrane is made by extrusion method.

### WOLIN GWSK with Protect Equipment 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>• DIN SPEC 20000-201 (Waterproofing of Roofs)</li> <li>• DIN SPEC 20000-202 (Waterproofing of Buildings)</li> <li>• DIN 18531 (Waterproofing of Roofs)</li> <li>• DIN 18195 (Waterproofing of Buildings)</li> </ul> | <ul style="list-style-type: none"> <li>• EN 13501-1 (Class E)</li> <li>• DIN 4102-1 (B2)</li> <li>• DIN ENV 1187 / EN 13501-5 B<sub>ROOF</sub> (t1), B<sub>ROOF</sub> (t4)</li> <li>• DIN 4102-7 (External fire)</li> <li>• UEATc guidelines</li> </ul> |
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Designation according to DIN SPEC 20000-201: **DE/E1 PVC-P-BV- E-(GV)-1,5 (-2,0) -SK**  
 Designation according to DIN SPEC 20000-202: **BA PVC-P-BV- E-(GV)-1,5 (-2,0) -SK**

### Characteristics of WOLFIN GWSK:

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| <ul style="list-style-type: none"> <li>• Content of high polymer substances more than 94%</li> <li>• Reinforced with integrated special glass fleece</li> <li>• Factory-finished equipped with self-adhesive layer</li> <li>• More than 50 years long-term and practical experiences with WOLFIN membranes</li> <li>• More than 30 years long-term and practical experiences with adhesive</li> <li>• More than 20 years long-term and practical experiences with WOLFIN membranes and adhesive layer</li> <li>• Permeable to water vapour diffusion</li> <li>• My-value ≤ 25.000 (+/- 7.500) incl. self-adhesive layer</li> <li>• Dry-out process of moisturized roof structures is proven by the Fraunhofer Institut Holzkirchen</li> <li>• Free of toxic heavy metals</li> </ul> | <ul style="list-style-type: none"> <li>• Fulfils DIN 4102, T 7 (Flying sparks and radiant heat) directly on EPS insulation material at all roof slopes</li> <li>• Free of flame retardants</li> <li>• Lifelong suited for hot-air and solvent welding</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 sulfurous 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 rhizome according to FLL-test method</li> <li>• Limitation of the ingress of water by the factory made self-adhesive layer</li> </ul> |
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### Types and application areas:

WOLFIN GWSK:	with special glass fleece reinforcement and self-adhesive layer
Membrane width:	1.100 mm / 1.620 mm
Nominal thickness:	2,3 mm (2,8 mm on request)
New building and refurbishment	Bonded layer build-up
Colour:	Black / grey

### Systemparts and accessories:

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| <ul style="list-style-type: none"> <li>• Self-adhesive membrane strips</li> <li>• Internal and External Corners</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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### Product information according EN 13956 and EN 13967

#### EN 13956

Exposed application (bonded)  
Under ballast (Gravel, green roof,...)

#### EN 13967

Damp roof sheets  
Basement tanking sheets

Characteristic	Test standard	Unity	Details	Result* 2,3 mm	Result* 2,8 mm
Visible defects	EN 1850-2	-	passed	passed	
Length	EN 1848-2	m	MDV	15 / 10	10 / 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	2,7	3,3
Effective thickness		mm	MDV	1,5	2,0
Water tightness	EN 1928 B	kPa	MLV	passed	
External fire performance	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	NPD	
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 600	
Tensile strength	EN 12311-2	N/mm <sup>2</sup>	MLV	≥ 10	
Elongation		%	MLV	≥ 200	
Resistance to impact	EN 12691	mm	MLV	600	750
Method A			MLV	600	750
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	≥ 350	
Tear resistance	EN 12310-2	N	MLV	≥ 150	
Resistance to toot penetration	EN 13948	-	passed	passed	
Dimensional stability	EN 1107-2	%	MLV	≤ 0,5	
Foldability at low temperature	EN 495-5	°C	MLV	≤ -20	
UV exposure	EN 1297	visuell	passed	passed	
Hail resistance	EN 13583	m/s	MLV	≥ 25	
Water vapour permeability	EN 1931	-	μ = MDV or 15.000	25.000 ± 7500	
Bitumen compatibilty	EN 1548	-	passed	passed	

Explanation: MDV = Manufacturer's declared value  
MLV = Manufacturer's limiting value  
NPD = no performance determined  
\* Values in new conditions



1213-CPR-012  
EN 13956



1213-CPR-015  
EN 13967

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This technical data sheet was produced according to the latest technical knowledge and standards of WOLFIN Bautechnik GmbH, Technical changes due to further developments are possible.