

**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>• 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 = BROOF (t1), BROOF (t4) valid for the respective proofed roof structure</li> </ul> |
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### 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 &amp; 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 & self-adhesive layer
Width:	1.100 mm / 1.620 mm
Nominal thickness:	2.3 mm (2.8 mm on request)
New building and refurbishment:	Fully bonded
Colour:	Black / grey

### System parts 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

<b>EN 13956</b> Exposed application (bonded) Under ballast (Gravel, green roof,...)	<b>EN 13967</b> Damp roof sheets Basement tanking sheets
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*This Technical data sheet was produced according to the latest technical knowledge and standards of Wolfin Bautechnik. Technical changes due to further developments are possible.*

Characteristic	Testing standard	Unity	Details	Results* 2.3 mm	Results* 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
Effective thickness	mm		MDV	1.5	2.0
Water tightness	EN 1928 B	kPa	MLV	passed	
External fire performance	EN V 1187	-	Annex E	BROOF (r1) + BROOF (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 Method A Method B	EN 12691 EN 12691	mm mm	MLV MLV	600 600	750 750
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	
Nail tear resistance	EN 12310-1	N	MLV	≥ 350	
Tear resistance	EN 12310-2	N	MLV	≥ 150	
Resistance to root penetration	EN 13948	-	passed	passed	
Dimensional stability	EN 1107-2	%	MLV	≤0.5	
Foldability at low temp.	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	25.000±7500	
Bitumen compatibility	EN 1548	-	passed	passed	

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

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

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PROJEX GROUP PTY LTD

ACN 003 859 916 PO Box 98 Matraville NSW 2036

PH: (02) 8336 1666 FX: (02) 9661 9925 e-mail: [mail@projex.com.au](mailto:mail@projex.com.au) website: [www.projex.com.au](http://www.projex.com.au)

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