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:

- EN 13956 CE- Waterproofing of Roofs
- EN 13967 CE- Waterproofing of Buildings
- Fulfills all German requirements (DIN standards) for waterproofing of roofs and buildings
- Fulfills UK requirements according BBA (certificate 14/5143)
- EN 13501-1 (Class E)
- ENV 1187 / EN 13501-5
- External fire = B_{ROOF} (t1), B_{ROOF} (t4) valid for the respective proofed roof structure

Characteristics of WOLFIN GWSK:

- Content of high polymer substances more than 94%
- Reinforced with integrated special glass fleece
- Factory-finished equipped with self-adhesive layer
- More than 50 years long-term and practical experiences with WOLFIN membranes
- More than 30 years long-term and practical experiences with adhesive
- More than 20 years long-term and practical experiences with WOLFIN membranes and adhesive layer
- Permeable to water vapour diffusion
- My-value ≤ 25.000 (+/- 7.500) incl. self-adhesive layer
- Dry-out process of moisturized roof structures is proven by the Fraunhofer Institut Holzkirchen
- Free of toxic heavy metals
- Fulfils DIN 4102, T 7 (Flying sparks and radiant heat) directly on EPS insulation material at all roof slopes
- Free of flame retardants
- Lifelong suited for hot-air and solvent welding
- Unique chemical resistance:
  - Resistant to bitumen, flux oils, mineral oils, fatty acid, kerosene
  - Proof of the resistance to sulfurous acid and lactic acid (85%)
  - Further resistance according to WHG (German water ressources act) media group 3
- 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 factory made self-adhesive layer

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	Fully bonded
Colour:	Black / grey

Systemparts and accessories:

- Self-adhesive membrane strips
- Internal and External Corners
- Coated Metal Sheets (Plates/Coils)
- Lightning protection and fastening elements
- Stainless steel drainage and ventilation elements
- System adhesives (Teroson AD 914, Teroson AD Adhesive Spray)

Technical support: +49 6053 708-5141

Part of **BMI Group**

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Product information according EN 13956 and EN 13967

EN 13956	EN 13967
Exposed application (bonded) Under ballast (Gravel, green roof,…)	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/m²	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_{ROOF} (t1) + B_{ROOF} (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/mm²	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	
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 permeabilty	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

CE **1213-CPR-012**
EN 13956

CE **1213-CPR-015**
EN 13967

You can find the declarations of performance on our website www.wolfin.com / Downloads

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