

Technical Information

WOLFIN® GWSK DA

WOLFIN®
BAUTECHNIK

WOLFIN GWSK DA membranes are high-polymer, entirely homogeneous (no different top, middle and under layer) synthetic roofing membranes which are equipped with a special fleece in the middle and a cold-bonding self-adhesive layer strip-wise applied as vapour pressure equalising layer. The membrane is produced by extrusion method.

WOLFIN GWSK DA is certified, approved and classified according to:

- EN 13956 CE- Waterproofing of Roofs
- Fulfills all German requirements (DIN standards) for waterproofing of roofs
- EN 13501-1 (classe E)
- ENV 1187 / EN 13501-5
- External fire = B_{ROOF} (t1) valid for the respective proofed roof structure

Characteristics of WOLFIN GWSK DA:

- Content of high polymer materials more than 94%
- With a special glass fleece reinforcement
- With factory made strip-wise cold-bonding self-adhesive layer
- More than 50 years long-term and practical experience with WOLFIN membranes
- More than 30 years long-term and practical experience with adhesive
- More than 20 years long-term and practical experience with WOLFIN membranes with self-adhesive layer
- Permeable to water vapour diffusion
- My-value ≤ 17.000 (+/- 5.000) incl. self-adhesive layer
- Dry-out process of moisturized roof structures is proven by the Fraunhofer Institut Holzkirchen
- Free of toxic heavy metals
- 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 sulphurous acid and lactic acid (85%)
 - Further resistances according to WHG (Water Resources Law) Media Group 3
- Chemical resistance to all insulation material
- Resistant to plant roots and rhizome according to FLL-test method

Types and application areas:

WOLFIN GWSK DA:	With special glass fleece reinforcement and cold-bonding 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

System parts and accessories:

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

Technical support: +49 6053 708-5141

Part of BMI Group

This technical data sheet was produced according to the latest technical knowledge and standards of WOLFIN Bautechnik, Am Rosengarten 5, D-63607 Wächtersbach. Technical changes due to further developments are possible.

Product information according EN 13956

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

Characteristics	Testing 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 ²	MDV	2,7	3,3
Effective thickness		mm	MDV	1,5	2
Water tightness	EN 1928 B	kPa	MLV	passed	
External fire performance	ENV 1187	-	Annex E	B _{ROOF} (t1)	
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 ²	MLV	≥ 10	
Elongation		%	MLV	≥ 200	
Resistance to impact	EN 12691	mm	MLV	600	750
Method A					
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	
Nail tear resistance	EN 13859-1			≥ 350	
Tear resistance	EN 12310-2	N	MLV	≥ 150	
Resistance to root penetration	EN 13948		erfüllt	erfüllt	
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 oder 15000	25.000 ± 7.500	
Bitumen compatibility	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

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

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