

WOLFIN GWSK Roof- and Waterproofing Membranes are soft plasticized extruded thermoplastic membranes with special glass fabric and self-adhesive layer. Since 1962 they have been applied in Building Construction and Civil Engineering, as well as for foundations, ponds- and kitchen-sealing.

WOLFIN GWSK is a self-adhesive membrane with a top layer of WOLFIN IB material. WOLFIN GWSK is certified according to EN 13956 und EN 13967. Approvals according to EN 13501-1 (E), as well as ENV 1187 / EN 13501-5 (B_{ROOF} (t1)).

Properties of WOLFIN® / WOLFIN® GWSK:

<ul style="list-style-type: none"> • high polymeric compound > 94% • with a special glass fabric • with factory made, fully coated cold self adhesive layer • long-term/practical experience of the components <ul style="list-style-type: none"> - WOLFIN > 45 years - adhesive > 25 years - Wolfin + adhesive > 20 years • high water permability <ul style="list-style-type: none"> - μ-Value \leq 20.000 incl. self adhesive layer - certificate of drying out wet roofing systems by the Fraunhofer Institute Holzkirchen • free of toxic heavy metal • free of flame retarder • fulfils DIN 4102, T 7 (Flugfeuer und strahlende Wärme) direct on Polystyrene Insulation at all gradients 	<ul style="list-style-type: none"> • ozon- UV-resistant • poor in fillers (< 7%) <ul style="list-style-type: none"> - lifelong weldable (solvent and hot air) • chemical resistance <ul style="list-style-type: none"> - bitumen resistance, mineral oil-, fat acid-, kerosine resistant - confirmation of resistance against sulphuric acid - confirmation of resistance against 85% lactic acid - further confirmations of resistance available • no problems in contact with thermo insulation • root- and rhizome resistant according the german FLL-approval and EN 13948 • limitation of the ingress of water by the factory made self-adhesive layer
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Types and application areas of WOLFIN® GWSK:

Width:	1100 mm and 1620 mm
Thickness:	2.3 mm (2.8 mm available on request)
New buildings and renovation:	fully adhered system
Colours:	black and grey, further colours available on request

System parts etc.:

<ul style="list-style-type: none"> • inner- und outer corners • lightdome edges • laminated steel • draining- and ventilation-systems 	<ul style="list-style-type: none"> • lightning protection system • adhesive systems
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Technical Information

WOLFIN® GWSK



1349 CPD 012 + 1349 CPD 015

Product information EN 13956		and		Product information EN 13967		
freiliegender Verlegung (verklebt) <i>exposed application (fully adhered)</i>				Feuchtigkeitssperre		<i>damp proof sheets</i>
unter Auflast (Kies/Begrünung/Verkehrsflächen o.ä.) <i>covered application (gravel, greenroof)</i>				Grundwassersperre		<i>basement tanking</i>
Eigenschaft	performance	Prüfnorm test standard	Einheit unit	Angaben details	Ergebnis results**	
					2,3 mm	2,8 mm
Äußere Beschaffenheit	Visible defects	EN 1850-2	-	erfüllt/passed	erfüllt/passed	erfüllt/passed
Länge	Length	EN 1848-2	m	MDV	15 / 10	10 / 10
Breite	Width		m	MDV	1,1/1,62	1,1/1,62
Geradheit	Straightness		mm	MLV	≤ 50	≤ 50
Planlage	Flatness		mm	MLV	≤ 10	≤ 10
Flächengewicht	Mass per unit area	EN 1849-2	kg/m ²	MDV	2,7	3,3
Effektive Dicke	Effective thickness		mm	MDV	1,5	2,0
Wasserdichtigkeit	Water tightness	EN 1928 B	kPa	MLV	erfüllt/passed	erfüllt/passed
Brandverhalten	External fire protection	ENV 1187	-	Anhang E	B _{ROOF} (t1)*	B _{ROOF} (t1)*
Brandverhalten	Reaction to fire	EN 13501-1	-	s. 5.2.5.2	E	E
Schälwiderstand der Fugenat	Joint peel resistance	EN 12316-2	N/50 mm	MLV	NPD	NPD
Scherwiderstand der Fugenat	Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 600	≥ 600
Zugfestigkeit	Tensile strenght	EN 12311-2	N/mm ²	MLV	≥ 10	≥ 10
Dehnung	Elongation		%	MLV	≥ 200	≥ 200
Perforationsverhalten	Resistance to impact	EN 12691 EN 12691	mm	MLV	600	750
Verfahren A)	Method A)		mm	MLV	600	750
Verfahren B)	Method B)					
Widerstand gegen statische Belastung	Resistance to static load	EN 12730 Methode B	kg	MLV	≥ 20	≥ 20
Dauerhaftigkeit Wasserdichtheit gegen Alterung	Durability watertightnes against aging	EN 1296 nach EN 1928	-	erfüllt/passed	erfüllt/passed	erfüllt/passed
Dauerhaftigkeit Wasserdichtheit gegen Chemikalien	Durability watertightnes against chemicals	EN 1847 nach EN 1928		erfüllt/passed	erfüllt/passed	erfüllt/passed
Weiterreißwiderstand Nagelschaft	Resistance to nail tear	EN 13859-1			≥ 350	≥ 350
Weiterreißwiderstand	Tear resistance	EN 12310-2	N	MLV	≥ 150	≥ 150
Wurzelfestigkeit	Resistance to root penetration	EN 13948		erfüllt/passed	erfüllt/passed	erfüllt/passed
Maßänderung nach Warmlagerung	Dimensional stability	EN 1107-2	%	MLV	≤ 0,5	≤ 0,5
Falzen in der Kälte	Foldability at low temperature	EN 495-5	°C	MLV	≤ -20	≤ -20
UV-Beanspruchung	UV exposure	EN 1297	visuell	erfüllt/passed	erfüllt/passed	erfüllt/passed
Hagelschlagbeständigkeit	Hail resistance	EN 13583	m/s	MLV	≥ 25	≥ 25
Wasserdampfdurchlässigkeit	water vapour properties	EN 1931	-	μ = MDV oder 15000	25.000 ± 7500	25.000 ± 7500
Bitumenverträglichkeit	Exposure to bitumen	EN 1548 90 d / 70°C	-	erfüllt/passed	erfüllt/passed	erfüllt/passed
Deklaration / Erklärung:				MDV = manufacturer's declared value (Herstellerrangabe mit Toleranz)		
				MLV = manufacturer's limiting value (Grenzwert des Herstellers)		
				NPD = no performance determind (keine Leistung festgelegt)		
Information für Anwender * Klassifizierung gemäß EN 13501-5, Klassifizierung weiterer Prüfaufbauten nach 4102-7 vorhanden.						
Information for customer* Classification accor g EN 13501-5, further classifications accor g german 4102-7 available						

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.