

FIBRANskin SEAL

Flexible sheets for water proofing

Technical Data Sheet / October 2023



Material

HDPE

Applications

FIBRANskin SEAL membrane is used water control layer, produced according to EN 13859-2:2010.

It is installed at inverted flat-roof applications, over the thermal insulation layer (cold side) as a protection layer with high vapour diffusion capacity. **FIBRANTape BUTYL 2-sided** is recommended for its application.

FIBRANskin SEAL is suitable for inverted flat-roofs and green roofs.

Technical characteristics

Property	Method	Units	Nominal Value	Minimum	Maximum
Functionality: Water vapour transmission , water tightness, weather durability, fire class					
Water vapour transmission (Sd)	EN ISO 12572 (C)	m	0,01	0,003	0,025
Temperature resistance	-	°C	-	-40	+100
Flexibility at low temperature	EN 1109	°C	-	-	-40
UV exposure	-	months	-	-	4
Product- / Functional layer thickness	-	mm	0,185 / 0,185	-	-
Water tightness	EN 1928 (A)	class	W1	-	-
Water column	EN 20811	m	1,6	-	-
Reaction to fire	EN ISO 11925-2	euroclass	E (*)	-	-

(*): on mineral wool and wood



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Physical and mechanical properties					
Mass per unit area	EN 1849-2	g/m ²	61	58,5	63,5
Maximum tensile force (MD)	EN 12311-1	N/50mm	310	280	340
Elongation at max. tensile force (MD)	EN 12311-1	%	17,5	15	20
Maximum tensile force (XD)	EN 12311-1	N/50mm	310	270	350
Elongation at max. tensile force (XD)	EN 12311-1	%	20	16	24
Resistance to tearing MD (nail shank)	EN 12311-1	N	50	37	65
Resistance to tearing XD (nail shank)	EN 12311-1	N	45	32	60
Properties after ageing					
Artificial ageing by UV and heat:	EN 1297 & EN 1296	residual value			
Water tightness	EN 1928 (A)	class	W1	-	-
Maximum tensile force (MD)	EN 12311-1	%	80	-	-
MD elongation at max. tensile force	EN 12311-1	%	70	-	-
Maximum tensile force (XD)	EN 12311-1	%	80	-	-
XD elongation at max. tensile force	EN 12311-1	%	70	-	-
Additional properties					
Width / Length per roll	-	m	1.50 x 50		
Length deviation	EN 1848-2	deviation in %	0	0	-
Width deviation	EN 1848-2	deviation in %	0	-0,5	+1,5
Straightness	EN 1848-2	mm/10m	-	-	30
Dimensional stability (MD & XD)	EN 1107-2	%	-	-	1
Resistance to penetration of air	EN 12114	m ³ / (m ² h 50Pa)	-	-	2
Windtight	-	-	yes	-	-



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Some test methods are modified according to the EN 13859-2:2014 and/or according to the FIBRAN ISO 9001:2008 certified quality system (for details please contact your regional FIBRAN representative). All values are based on roll average. This information corresponds to our current knowledge on the subject. It is offered in accordance with REGULATION (EU) No 305/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC. It is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for any application other than the application as specified herein. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, FIBRAN makes no warranties and assumes no liabilities in connection with any use of this information for applications other than the application as specified herein. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right. Product safety information is available on request. This data sheet is a printed document and is valid without signature.