

# FIBRANskin FIRE SHIELD

Flexible sheets for water proofing

Technical Data Sheet / October 2023



## Material

Flash-spun-bond HDPE with transparent halogen - free flame retardant acrylic lacquer.

## Applications

**FIBRANskin FIRE SHIELD** membrane is used as fire-resistant, flexible sheet for waterproofing as underlay for walls, produced according to EN 13859:2010.

It can be used at all types of buildings, installed over the thermal insulation layer (cold side). It provides vapour diffusion and has high mechanical properties, stability and resistance to fire (B-s1, d0). Single-side **FIBRANTape ACRYL** or double-sided **FIBRANTape 2-SEAL** or **FIBRANTape BUTYL 2-sided** can be used for its application.

**FIBRANskin FIRE SHIELD** is suitable for inverted flat roofs, and walls (especially ventilated facades).

## Technical characteristics

Property	Method	Units	Nominal Value	Minimum	Maximum
<b>Functionality: Water vapour transmission , water tightness, weather durability, fire class</b>					
Reaction to fire *	EN 13501-1	class	B-s1,d0	-	-
Water vapour transmission (sd)	EN ISO 12572 (C)	m	0,015	0,005	0,025
Temperature resistance	-	°C	-	-40	+100
Flexibility at low temperatures	EN 1109	°C	-	-	-40
UV exposure	-	months	-	-	4
Product / Functional layer thickness	-	µm	175/175	-	-
Water tightness	EN 1928 (A)	Class	W1	-	-
Water column	EN 20811	m	1,4	-	-

(\*): installed on mineral wool, mineral fiber boards or freehanging: B-s1,d0 / installed on wood: D-s2,d2

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Physical and mechanical properties					
Mass per unit area	EN 1849-2	g/m <sup>2</sup>	68	62	74
Maximum tensile force (MD)	EN 12311-1	N/50mm	275	230	320
Elongation at max. tensile force (MD)	EN 12311-1	%	15	10	20
Maximum tensile force (XD)	EN 12311-1	N/50mm	275	225	325
Elongation at max. tensile force (XD)	EN 12311-1	%	18	11	25
Resistance to tearing MD (nail shank)	EN 12311-1	N	41	25	57
Resistance to tearing XD (nail shank)	EN 12311-1	N	36	21	52
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	N/50mm	225	180	270
MD elongation at max. tensile force	EN 12311-1	%	10	6	14
Maximum tensile force (XD)	EN 12311-1	N/50mm	225	175	275
XD elongation at max. tensile force	EN 12311-1	%	12	7	17
Additional properties					
Width / Length per roll	-	m	1.50 / 50		
Length deviation	EN 1848-2	deviation in %	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 <sup>3</sup> / (m <sup>2</sup> 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.