

BROSZEIT FIRE PROTECTION VERMICULIT
GREMAT AL

Grenamat AL is a non-combustible board, made out of exfoliating vermiculite and an inorganic binder. The material is free of asbestos fibers and organic substance.

SPECIFICATION TYPE	VALUE	GREMAT AL	
DESIGNATION		Vermiculite board	
DIMENSION OF BOARD	mm	1220 x 2440 x th.8-46 mm	
TOLERANCE OF THICKNESS	mm	± 0,2	
TOLERANCE OF FORMAT	mm	± 5	
BUILDING CLASS MATERIAL ACC. TO DIN 4102		A1, non-combustible	
BUILDING CLASS MATERIAL ACC. TO EN 13 501:1		A1, non-combustible	
INDEX OF SPREADING FLAME ON SURFACE IS WITHOUT SURFACE	mm/min	00,00	
WITH VENEER		46,20	
WITH PAPER		26,80	
WITH HPL		00,00	
WITH OBERFLEX		40,50	
WATER ABSORPTION ACC. TO EN 12 087	g/cm ³	2 hours 24 hours 48 hours 0,12 0,28 0,48	
DENSITY	kg/m ³	400 – 750; parameters below for 500 kg/m ³	
TOLERANCE OF DENSITY	%	±10%	
BEND OF STRENGTH (STRAIGHT AND CROSS DIRECTION)	MPa	th. of board 10 mm 4,10	th. of board 19 mm 3,60
COLD COMPRESSIVE STRENGTH AT DEF. OF 10%	MPa	2,95	
SCREW RESISTANT EXTRACTION EN 320 WITHOUT SURFACE	N	th. of board 10 mm 350	th. of board 19 mm 425
WITH VENEER		230	370
WITH PAPER		450	475
WITH HPL		595	640
WITH S STEEL PLUG		790	
SOUND INSULATION ACCORDING TO EN ISO 140-3	dB	th.of board 12 mm; 24 mm; 35 mm 27 29 34	
PH FACTOR		5,5	
COEFFICIENT OF GAS DIFFUSION	μ	1,5 · 10 ⁻⁷ m ²	
THERMAL CONDUCTIVITY AT 20 °C	Wm/K	0,12	
THERMAL LENGTH CHANGE	m/mK	8,5 · 10 ⁻⁶	
MOISTURE CONTENT (IN FOIL)	%	2 - 3	
CHEMICAL ANALYSIS:			
AL ₂ O ₃	%	9,10	
SiO ₂		54,75	
MGO		23,48	
ALKALI		5,21	

All technical data are mean values from the production, which are subject to the usual fluctuations. They shall not be deemed as a guarantee of certain properties in the sense of a warranty. All data correspond to the latest state of the art and have been presented and described to the best of our knowledge. Modifications resulting from the latest recognitions are possible. Errors and omissions are not excluded. Our terms of delivery and payment are valid in the event of any possible liability. Ask for the safety data sheet. This publication renders all previous ones invalid.

If you have any questions, please do not hesitate to contact us:
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