

Technical Data Sheet - parameters of boards



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		Grenamat AL		
Designation		Vermiculite board		
Dimension of board	mm	1220 x 2440 x th.8-46		
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 i_s without surface with veneer with paper with HPL with Oberflex	mm/min	00,00 46,20 26,80 00,00 40,50		
Water absorption acc. to EN 12 087	g/cm ³	2 hours	24 hours	48 hours
		0,12	0,28	0,48
Bulk density	kg/m ³	400 – 750; parameters below for 500 kg/m ³		
Bend of strength (straight and cross direction)	MPa	th. of board 10 mm	th. of board 19 mm	
		4,10	3,60	
Cold compressive strength at def. of 10%	MPa	2,95		
Screw resistant extraction EN 320 without surface with veneer with paper with HPL with s steel plug	N	th. of board 10 mm	th. of board 19 mm	
		350	425	
		230	370	
		450	475	
		595	640	
			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	$1,5 \cdot 10^{-7} \text{ m}^2$		
Thermal conductivity at 20 °C	Wm/K	0,12		
Thermal length change	m/mK	$8,5 \cdot 10^{-6}$		
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.

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