

Promat

PROMATECT®-H

Fire protective construction board



www.promat-see.com





Product description

Silicate based fire protective construction board with cement binder, resistant to moisture, of stable dimensions, large format and self-supporting. It is produced with quality assurance according to the standard ISO 9001.

Fields of application

Execution of construction elements for construction and technical fire protection according to EN standard in all the fields of building construction and industrial construction, e.g. in steel structures, fire resistant partitions, fire dampers, wall structures, facade elements.

Technical data

Nominal dry density (average)	approx. 870 kg/m ³
Moisture content	approx. 5 - 10 % (air dried)
Alkalinity (pH-value)	approx. 12
Thermal conductivity λ	approx. 0,175 W/m.K
Coefficient of resistance to water vapor diffusion μ	approx. 20,0

Properties

Construction material class	A1, EN 13501-1
Surface properties	one side smooth, one side mildly coarse
Storage	store in a dry location
Disposal	remains can be disposed off on waste tips for class I construction waste (EWC code 17 01 07)

Static values

	Bending strength σ_{break}	Tensile strength Z_{break}	Compressive strength \perp
(deflection $f \leq l/250$, safety factor $\nu \geq 3$)	7,6 N/mm ² (in the longitudinal direction of the board)	4,8 N/mm ² (in the longitudinal direction of the board)	9,3 N/mm ² (perpendicularly to the board surface)

Pullout resistances

Type of screws	Pullout resistances of screws (Z_{break})				
	Screw for fast construction 3,9 x 55 (G 233/355) Knipping	Screw for fast construction 4,2 x 45 (Hi-Lo-thread) Knipping	Screw for fast construction ABC-Spax 4,5 x 40	Screw for fast construction ABC-Spax 4,5 x 50	Screwing nut (type B 3815) RAMPA
Layout	in the board surface	in the board surface	in the board surface	in the board surface	in the board surface
Depth of screwing screws	15 mm	15 mm	15 mm	15 mm	15 mm
Pullout resistance Z_{break}	624 N	550 N	584 N	581 N	350 N

Formats and weights

Standard formats	Board thickness and weight								
	2500 mm x 1250 mm	6 mm	8 mm	10 mm	12 mm	15 mm	20 mm	25 mm	
	3000 mm x 1250 mm*	-	-						
Dimensional tolerance	thickness	±0,5 mm				±1,0 mm			±1,5 mm
	length and width	±3,0 mm							
Board weight [kg/m ²]	in dry state	approx. 5,3	approx. 7,0	approx. 8,7	approx. 10,5	approx. 13,1	approx. 17,4	approx. 21,8	
	+20°C, 65% rel. hum.	approx. 5,6	approx. 7,4	approx. 9,2	approx. 11,1	approx. 13,9	approx. 18,5	approx. 23,1	

* on request

Special remarks

- Additional instructions for processing and cutting can be found in Instructions for handling, fastening and fixing of PROMATECT® boards.
- For gluing, see technical data sheet of Promat®-Kleber K84.

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