

# Promat

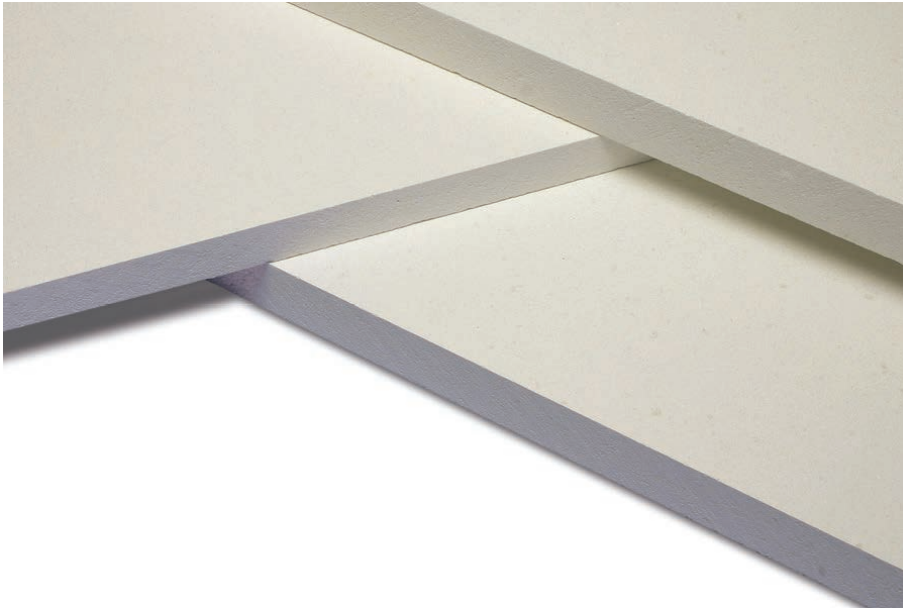
## PROMATECT®-L500

### Fire resistant construction board



[www.promat-see.com](http://www.promat-see.com)





### Product description

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

### Fields of application

Execution of independent ventilation channels, smoke and heat extract ducts, cladding of ventilation channels made of steel sheet.

### Technical data

Nominal dry density (average)	approx. 500 kg/m <sup>3</sup>
Moisture content	approx. 3 - 5% (air dried)
Alkalinity (pH-value)	approx. 9
Thermal conductivity $\lambda$	approx. 0,09 W/m.K
Coefficient of resistance to water vapor diffusion $\mu$	approx. 3,2

### 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 $\sigma_{break}$	Tensile strength $Z_{break}$	Compressive strength $\perp$
(deflection $f \leq l/250$ , safety factor $\nu \geq 3$ )	3,0 N/mm <sup>2</sup> (in the longitudinal direction of the board)	1,2 N/mm <sup>2</sup> (in the longitudinal direction of the board)	5,5 N/mm <sup>2</sup> (perpendicularly to the board surface)

### Pullout resistances

Type of screws	Pullout resistances of screws ( $Z_{break}$ )			
	Screw for fast construction 3,9 x 45 (G 233/345) Knipping			Screwing nut (type B 3815) RAMPA
Layout	in the board surface	in the board edge	in the board edge	in the board surface
Depth of screwing screws	20 mm	20 mm	30 mm	15 mm
Pullout resistance $Z_{break}$	330 N	342 N	510 N	301 N

### Formats and weights

Standard formats	2500 mm x 1200mm	Board thickness and weight					
		20 mm	25 mm	30 mm	35 mm	50 mm	60 mm
Dimensional tolerance	thickness	±0,5 mm					
	length and width	±3,0 mm					
Board weight [kg/m <sup>2</sup> ]	in dry state	approx. 10,0	approx. 12,5	approx. 15,0	approx. 17,5	approx. 25,0	approx. 30,0
	+20°C, 65% rel. hum.	approx. 10,5	approx. 13,1	approx. 15,8	approx. 18,4	approx. 26,3	approx. 31,5

### 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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