

PROMATECT®-L

PROMATECT®-L is a lightweight largesized board based on calcium silicate with good insulating efficiency up to 500°C. The homogeneous, stable, calcium silicate based structure provides favourable technical properties.

ADVANTAGES AND PROPERTIES

- Very lightweight
- Extremely effective insulation
- High mechanical strength
- High thermal dimensional stability
- Large-sized
- Woodworking processibility
- Free from asbestos, α -quartz, iron oxide and sulphur
- Protective-gas resistant N_2 , H_2 , CO , NH_3

The lightweight yet mechanically strong PROMATECT®-L insulating boards have been proven effective for ambitious insulating constructions. Having good vibration and thermal dimensional stability, the boards offer many construction advantages when compared with mineral wool boards.

WORKING AND PROCESSING

- Woodworking machinery with hardmetal-tipped tools must be used for producing and machining cut sections.

- When cutting to size, the maximum workplace concentration values for dust generation must be observed. In general dust suction is recommended.

ACCESSOIRES

- ALSIFLEX® glue 1000
Material description: water-glass-based bonding agent, modified with additional and inorganic filling compounds. ALSIFLEX® glue 1000 has a viscous consistency.
Delivery form: ready-to-use in 310 ml cartridges and 30 kg containers
Technical information sheet on request.



AREAS OF APPLICATION

- Drying Apparatus, Industrial Furnace Construction, Ventilation and Airconditioning Technology.
- Particular advantages of the boards are that they are not affected by humidity and are resistant to corrosion in drying, ventilation and air-conditioning technology.

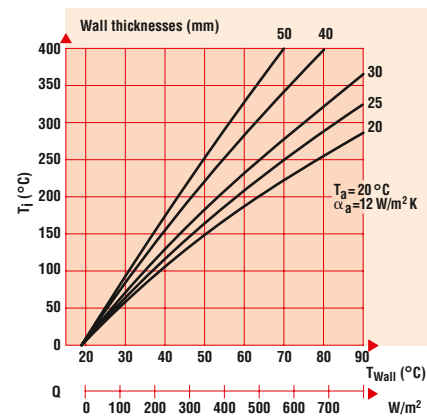
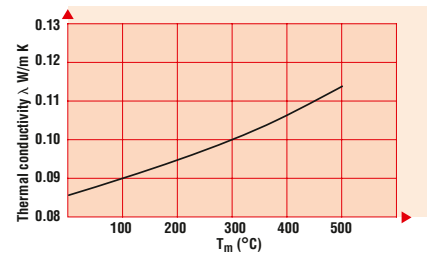
PROMATECT® L TO 500°C



TECHNICAL DATA

Product name	PROMATECT®-L		
Colour	white		
Building material class DIN 4102	A 1, non-combustible		
Classification temperature	500	°C	
Bulk density ρ	450	kg/m ³	
Thermal conductivity λ	20°C	0,085	W/m K
	200°C	0,095	W/m K
	400°C	0,11	W/m K
Shrinkage at CT, 12 u	0,25 in longitudinal and lateral direction		%
Specific heat capacity c	0,95	kJ/kgK	
Thermal expansion α	6,0 · 10 ⁻⁶	m/m K	
Chemical resistance in	in N ₂ , H ₂ , CO, NH ₃ atmosphere		
Alkalinity	approx. 9	pH-value	
Water vapour diffusion value μ	3,2		
Humidity content (air-dry)	3,5 - 6	%	

Dimensional tolerances of standard boards:
Lengths and widths: ± 3,0 mm
Thicknesses: ± 0,5 mm



STANDARD SIZES

Promat contains the right to change without notice the properties and values of all products. The given technical values are obtained in specific conditions and are average and indicative. In case of any doubt if these properties and/or values are matching the application requirements, please contact Promat for advise.

Dimensions

boards/pallet

2500 x 1200 x 15 mm	50
2500 x 1200 x 20 mm	40
2500 x 1200 x 25 mm	35
2500 x 1200 x 30 mm	30
2500 x 1200 x 40 mm	20
2500 x 1200 x 50 mm	16

