

# PROMATECT<sup>®</sup>-L



### Calcium silicate boards

PROMATECT<sup>®</sup>-L is a medium density, large size calcium silicate board with a homogeneous and stable structure guaranteeing excellent thermal insulation properties.

The lightweight PROMATECT<sup>®</sup>-L insulation boards have proven efficiency in complex insulated assemblies such as dryers, industrial furnaces and ventilation and air conditioning systems.

PROMATECT<sup>®</sup>-L boards combine good thermal properties with excellent mechanical characteristics.

Technical data		
Colour		white
Building material class	DIN 4102 EN 13501	A1, non-combustible
Classification temperature	°C	500
Bulk density	kg/m <sup>3</sup>	450
Cold compressive strength	N/mm <sup>2</sup>	2.4
Bending strength	N/mm <sup>2</sup>	3.1
Shrinkage 500 °C - 12h	%	0.25
Thermal conductivity 20 °C	W/m K	0.08
200 °C	W/m K	0.10
400 °C	W/m K	0.11
Specific heat capacity	kJ/kg K	0.95
Reversible thermal expansion 20-600 °C	K <sup>-1</sup>	6.0x10 <sup>-6</sup>
Water vapour diffusion value	μ	approx. 3.2
Alkalinity (approximate)	ph value	9
Typical moisture content (air-dry)	%	3,5-6

Delivery sizes		
Length	mm	2500 / 3000
Width	mm	1200
Thickness	mm	20 / 25 / 30 / 40 / 50

Production tolerances		
Length and width	mm	± 3.0
Thickness	mm	± 0.5

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### Properties & advantages

- lightweight
- large-sized
- low thermal conductivity
- high thermal resistance
- high mechanical strength
- vibration resistant
- resistant to moisture and chemicals
- easy and precise mechanical workability

### Application areas

#### HEAVY INDUSTRY

- heat protection
- dryers
- industrial furnaces
- apparatus construction

#### OEM

- ventilation and air conditioning technology

#### OIL AND GAS

- load bearing pipe columns



### Working & processing

PROMATECT<sup>®</sup>-L products can be accurately machined with special processing machinery and appropriately equipped tools. The fine material structure allows the production of precision machined parts.

They can be easily fixed in place by screws or Tucker Fasteners. When using screws, slot holes should be used.

When cutting to size, the maximum workplace concentration values for inhalable dust must be observed. Dust extraction is recommended. See product safety information sheet.

### Thermal conductivity

