

PROMATECT®-L and PROMALUX®-V are medium density, large size calcium silicate boards with a homogeneous and stable structure guaranteeing excellent thermal insulation properties.

The lightweight, mechanically strong PROMATECT®-L and PROMALUX®-V insulation boards have proven efficiency in complex insulated assemblies such as dryers, industrial furnaces and ventilation and air conditioning systems. In these applications, not only good insulating properties are required but also the need to be self-supporting.

**PROMATECT®-L** boards combine good thermal properties with excellent technical characteristics.

**PROMALUX®-V** are calcium silicate boards containing a vermiculite addition.

### 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

### Typical applications

- Heat protection
- Dryers
- Industrial furnaces
- Apparatus construction
- Ventilation and air conditioning technology
- Load bearing pipe columns
- Construction of fireplaces and tiled stoves

### Working & processing

PROMATECT®-L and PROMALUX®-V 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 included.

When cutting to size, the maximum recommended workplace concentration for dust generation must be observed. We advise local dust extraction in the cutting zone.

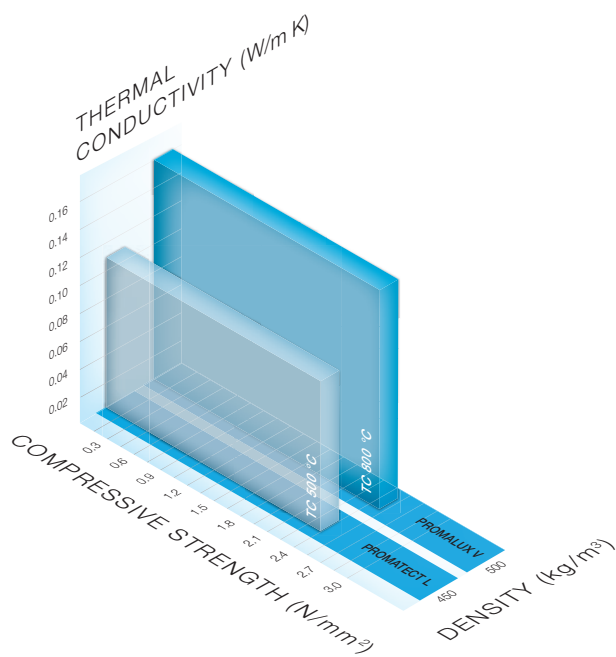




## Technical data

Brand		PROMATECT®	PROMALUX®
Grade		-L	-V
Colour		White	Grey
Building material class (DIN 4102)		A1, Non-combustible	A1, Non-combustible
Classification temperature	°C	500	800
Nominal density	kg/m <sup>3</sup>	450	500
Cold compressive strength	N/mm <sup>2</sup>	2.4	2.5
Bending strength	N/mm <sup>2</sup>	3.1	2
Shrinkage @ CT, 12 h	%	0.25	1.1
Thermal conductivity			
200 °C mean	W/m K	0.10	0.14
400 °C mean	W/m K	0.11	0.16
600 °C mean	W/m K	-	0.19
800 °C mean	W/m K	-	-
Specific heat capacity	kJ/kg K	0.95	0.92
Reversible thermal expansion	m/m K	6.0x10 <sup>-6</sup>	7.5x10 <sup>-6</sup>

**Graph: Thermal conductivity vs. compressive strength vs. density (Thermal conductivity @ 400 °C)**



## Product dimensions & size availability

	Length [mm]	Width [mm]	Thickness [mm]
PROMATECT®-L	2500	1200	20-25-30-40-50
	3000	1200	20-25-30-40-50
PROMALUX®-V	1220	1200	20-25-30-35-40 45-50-55-60
	2440	1200	20-25-30-35-40 45-50-55-60

Other sizes are available on request.

Shaped parts and cut sections are available on request.

## Production tolerances

	Length [mm]	Width [mm]	Thickness [mm]
PROMATECT®-L	± 3.0	± 3.0	± 0.5
PROMALUX®-V	± 5.0	± 5.0	+0/-0.8