

PROMINA®



Structural calcium silicates

PROMINA® is a cement bonded calcium silicate insulation board (asbestos free).

This large-sized multi-purpose board is easy to handle and offers a superior combination of enhanced technical properties for building applications (and mechanically self-supporting constructions).

PROMINA® is hygroscopic and vapour-permeable. Moisture content is therefore automatically regulated by the application environment.

Technical data		
Colour		beige
Building material class	DIN 4102 EN 13501	A1, non-combustible
Classification temperature	°C	100
Bulk density	kg/m ³	870
Thermal conductivity 20 °C	W/m K	0.17
Linear change in length 20-100 °C	K ⁻¹	6.4x10 ⁻⁶
Alkalinity	pH-value	approx. 11
Water vapour diffusion value	μ	15
Humidity contents (air-dry)	%	5-7
Modulus of elasticity E Long./Lat.	MPa	3400 / 2700
Bending strength Long./Lat.	N/mm ²	8.0 / 5.3
Tensile strength Long./Lat.	N/mm ²	3.5 / 2.5
Cold compressive strength	N/mm ²	7.5
Chemical analysis		
SiO ₂	%	52-56
CaO	%	38-43
Fe ₂ O ₃	%	< 1.5
LOI	%	14

Delivery sizes		
Length	mm	2500
Width	mm	1250
Thickness	mm	6 / 8 / 10 / 12 / 15

Other sizes are available on request. Shaped parts and cut sections are available on request.

Production tolerances		
Length and width	mm	± 3.0
Thickness	mm	T = 6-12: ± 0.5
	mm	T = 15: ± 1.0

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Properties & advantages

- large-sized, self-supporting
- high mechanical strength
- good thermal insulation
- good noise-proofing
- A1, non-combustible according to DIN 4102/EN 13501
- easy to shape and work
- good chemical resistance
- hygroscopic and vapour-permeable
- unaffected by humidity

Application areas

HEAVY INDUSTRY

- dryers
- apparatus construction
- wet and damp rooms
- industrial furnaces
- heat and moisture protection in industrial plants
- replacement for asbestos containing boards



Working & processing

Woodworking machinery with hard metal-tipped tools can be used for producing and shaping cut sections.

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

Surface treatment

The physical properties and the surface structure of PROMINA® boards make them ideally suited to the application of decorative finishes.

The boards are alkaline, therefore they must be treated using alkali-resistant paints, bonding agents and decorative systems.

To avoid water absorption and to protect against aggressive atmospheres, Promat®-Impregnations are available.