

PROMAFOUR®



Structural calcium silicates

PROMAFOUR® boards are cement bonded calcium silicate based insulation boards and are asbestos free.

These large-sized multi-purpose boards are easy to handle and offer a superior combination of enhanced technical properties for building strong, mechanically self-supporting constructions.

PROMAFOUR® boards are hygroscopic and vapour permeable. Moisture content is therefore automatically regulated by the application environment.

Technical data

Colour		grey
Building material class	EN 13501	A1, non-combustible
Classification temperature	°C	800
Nominal density	kg/m ³	970
Shrinkage 1000 °C - 24h	%	< 1.5
Thermal conductivity		
200 °C	W/m K	0.18
400 °C	W/m K	0.19
600 °C	W/m K	0.20
800 °C	W/m K	0.22
Specific heat capacity	kJ/kg K	0,93
Linear change in length 20-600 °C	K ⁻¹	6.4x10 ⁻⁶
Alkalinity	pH value	approx. 12
Water vapour diffusion value	μ	51
Humidity content (air dry)	%	5.7
Modulus of elasticity E	MPa	2845
Bending strength Long./Lat.	N/mm ²	7.6/4.8
Tensile strength Long./Lat.	N/mm ²	4.8/2.6
Cold compressive strength	N/mm ²	11

Delivery sizes

Length	mm	2500	3000
Width	mm	1250	1250
Thickness	mm	12 / 15 / 18	12 / 15 / 18

Production tolerances

Length and width	mm	± 3,0
Thickness	mm	± 1,0

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Properties & advantages

- Large-size, self-supporting
- High mechanical strength
- Defined heat transmission for comfortable room temperatures
- Good sound insulation properties
- A1, non-combustible (EN 13501)
- Easy to shape and work
- Good chemical resistance
- Hygroscopic and vapour-permeable
- Unaffected by humidity

Application areas

FIREPLACES AND CHIMNEYS

- Chimney casings
- Mantelpieces of fireplaces and stoves



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 PROMAFOUR® boards make them ideally suited to the application of decorative finishes of fireplaces.

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.

