

PROMASIL® 1000-1100

PROMASIL® 1000-1100 are lightweight calcium silicate insulating boards, asbestos-free. In combination with lightweight refractory bricks or refractory concrete, they are the ideal construction material for rear linings.



ADVANTAGES AND PROPERTIES

- Low thermal conductivity
- High thermal resistance
- Low thermal shrinkage
- Low bulk density
- Protective gas-resistant (CO, NH₃, H₂, N₂ en CH₄)
- Free of sulphur and low in iron

In modern production plants, the patented manufacturing process guarantees constant PROMASIL® quality above the requirements of ASTM and DIN standards.

WORKING AND PROCESSING

- PROMASIL® can be easily worked with woodworking tools. Generated dust is not absorbable by the lungs and is harmless with regard to working hygiene.
- Cutting to Size
When cutting to size, the maximum workplace concentration values for dust generation must be observed. In general dust suction is recommended.

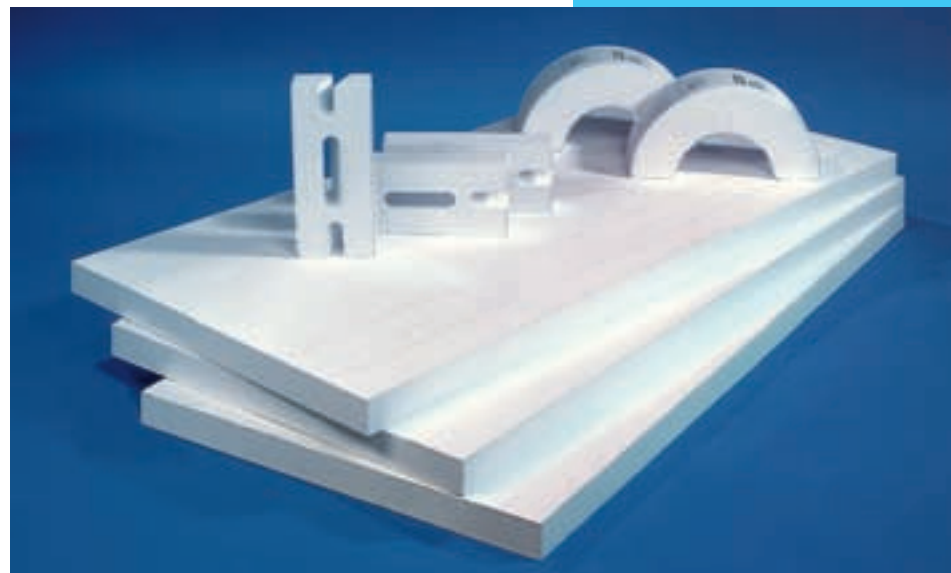
SELECTION CRITERIA

- PROMASIL® as compression-proof rear lining
- High insulating effect
- Low wall thicknesses
- Low bulk density
- Low heat storage
- Large-sized
- Low assembly costs
- Operating safety
- High quality standard

The low thermal after shrinkage and the high compressive strength after thermal burning are the quality criteria for operating safety.

AREAS OF APPLICATION

- Steel industry: smelting, heat distortion and heat-treatment plants
- Ceramic industry: chamber and tunnel furnaces
- Glass industry: melting furnaces and cooling channels
- Cement industry: heat exchangers and cyclone separators
- Chemical and petrochemical industry:
- Thermal cracking reactors and processing plants
- Aluminium industry: back-up insulation



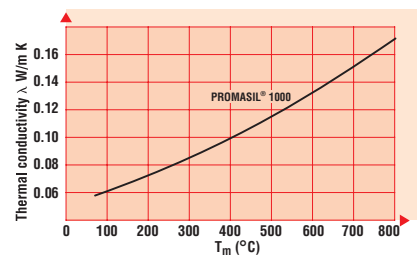


TECHNICAL DATA

Product name	PROMASIL® 1000	PROMASIL® 1100	
Colour	white	white	
Classification temperature	1000	1100	°C
Bulk density ρ	245	285	kg/m ³
Cold compressive strength	1,4	1,9	N/mm ²
Shrinkage at 1000 °C, 12h	1,3	-	%
1050 °C, 12h	-	1,5	%
Thermal expansion α	$5,4 \cdot 10^{-6}$	$5,5 \cdot 10^{-6}$	m/mK
Specific heat capacity c	0,8	0,8	kJ/kgK
Thermal conductivity λ			
	200°C	0,07	0,07 W/mK
	400°C	0,10	0,10 W/mK
	600°C	0,14	0,14 W/mK
	800°C	0,17	0,18 W/mK
Protective gas-resistance	CO, NH ₃ , H ₂ , CH ₄ , N ₂ atmosphere		

Dimensional tolerances of standard boards:

Lengths and widths: $\pm 1,5$ mm
Thicknesses: $\pm 1,3$ 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/ box	Boxes/ pallet
PROMASIL® 1000		
1000 x 500 x 25 mm	13	16
1000 x 500 x 30 mm	11	16
1000 x 500 x 36 mm	9	16
1000 x 500 x 40 mm	8	16
1000 x 500 x 50 mm	6	16
1000 x 500 x 60 mm	5	16
1000 x 500 x 65 mm	5	16
1000 x 500 x 70 mm	4	16
1000 x 500 x 75 mm	4	16
1000 x 500 x 100 mm	3	16
PROMASIL® 1100		
1000 x 500 x 25 mm	13	16
1000 x 500 x 30 mm	11	16
1000 x 500 x 40 mm	8	16
1000 x 500 x 50 mm	6	16
1000 x 500 x 60 mm	5	16
1000 x 500 x 65 mm	5	16
1000 x 500 x 70 mm	4	16
1000 x 500 x 75 mm	4	16
1000 x 500 x 100 mm	3	16

* pipe segments are available on request