

PROMACLAD® 900-1100

High temperature insulating board on the basis of exfoliated vermiculite and inorganic binders. The material is free of asbestos and organic substances. Vermiculite is an aluminium-magnesium silicate, which bloats to ultra lightweight granulates through heating and is processed to boards, bricks and shaped parts through a compression mould procedure.



ADVANTAGES AND PROPERTIES

- Thermal shock resistance, can be applied in the furnace at fire side
- Non-combustible A 1
- No smoke nuisance during heating-up
- Low thermal conductivity
- High electrical resistance
- Easy handling and installation
- High thermal resistance
- Good chemical resistance to acids, alkalis and exhaust gases
- Rigid and stable with sufficient mechanical stability

Resistant to CO and CH₄ atmosphere; hardly wetted by fluid aluminium, kryolite and flouride.

WORKING AND PROCESSING

- PROMACLAD® can be worked easily both with woodworking tools and machines. It can be sawn, drilled and sanded.
- Cutting to Size
When cutting to size, the maximum workplace concentration values for dust generation must be observed. In general dust suction is recommended.

AREAS OF APPLICATION

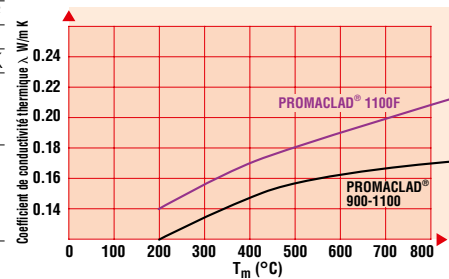
- Thermal insulation
- Rear insulating
- Night storage heaters
- Boilers
- Hearths
- Vessels and tanks
- Insulation of furnaces





TECHNICAL DATA

Product name	PROMACLAD® 900	PROMACLAD® 1100	PROMACLAD® 1100 F	
Color	ochre	ochre	ochre	
Building material class according to DIN 4102	A1, non-combustible	A1, non-combustible	A1, non-combustible	
Classification temperature	900	1050	1050	°C
Bulk density ρ	375 ± 35	375 ± 35	475 ± 35	kg/m³
Cold compressive strength	1,3	1,3	2,2	N/mm²
Modulus of rupture	0,8	0,8	1,2	N/mm²
Total porosity	85	85	-	%
Specific heat coefficient C	0,94	0,94	0,94	kJ/kgK
Shrinkage at				
900° C, 12 h	2	0,1	-	%
1050° C, 12 h	-	1,5	1,5	%
Thermal conductivit at				
200° C	0,12	0,12	0,14	W/mK
400° C	0,15	0,15	0,17	W/mK
600° C	0,16	0,16	0,19	W/mK



Dimensional tolerances of standard boards:
Lengths and widths: 0 up to + 8 mm
Thicknesses: ± 1,5 mm

Dimensional tolerances of standard boards,
edge-planed and sanded:
Lengths and widths: ± 1,0 mm
Thicknesses: ± 0,5 mm

Dimensional tolerances of half-pipe sections:
Lengths: - 4 up to + 3 mm
Thicknesses: - 1 up to + 2 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/ pallet
1000 x 610 x 25 mm	144
1000 x 610 x 30 mm	120
1000 x 610 x 35 mm	100
1000 x 610 x 40 mm	96
1000 x 610 x 45 mm	80
1000 x 610 x 50 mm	72
1000 x 610 x 60 mm	60
1000 x 610 x 65 mm	56
1000 x 610 x 70 mm	50
1000 x 610 x 75 mm	48
1000 x 610 x 80 mm	44

Other sizes are available on request