

PROMALAN® HT 100-200

PROMALAN® HT 100 to 200 are high temperature resistant mineral wool boards with bulk densities of 100 to 200 kg/m³. The raw material (volcanic stone diabas) fulfils the highest quality demands, especially high permanent temperature resistance. Even fibre structure, good homogeneity and low organic binder content provide the basis for excellent behaviour at high temperatures and low thermal conductivity.



ADVANTAGES AND PROPERTIES

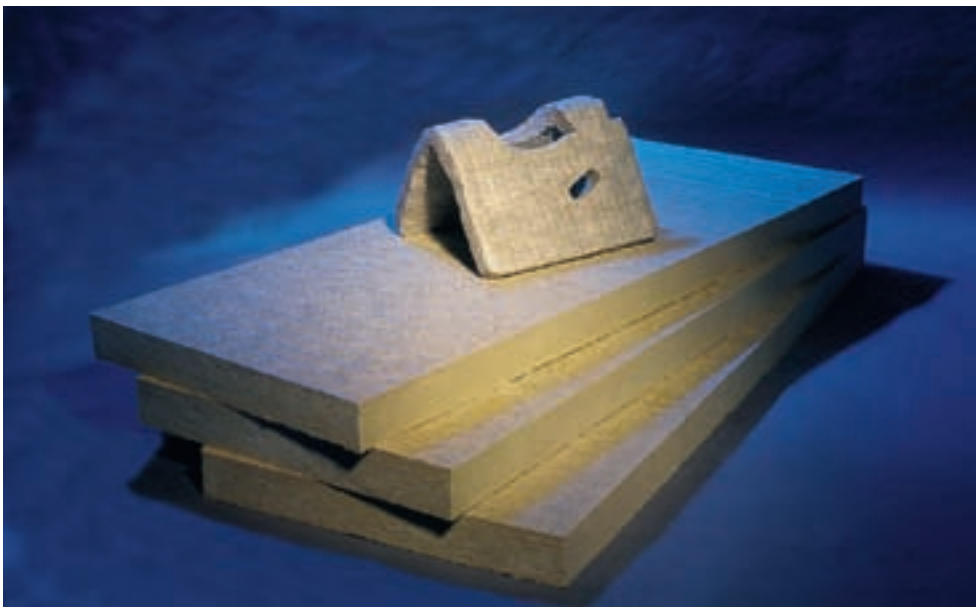
- Non-combustible
- Cost-efficient insulating effect
- Stable and jolt-proof
- High permanent temperature resistance
- Low thermal conductivity
- Low organic binder content
- Rot-resistant and non-ageing
- Sound-proofing
- Chemically neutral
- Water-repellent
- Easy to machine

WORKING AND PROCESSING

- The material can be worked both with woodworking machinery and manually. It can be sawn, drilled, punched and sanded.
- Application Technology
The main demands of modern insulating technologies are vibration resistance, high permanent temperature resistance and constant, long-lasting insulating effect. PROMALAN® HT insulating boards counteract thermodynamic wear. The homogeneous structure and rigidity guarantee stable, economical thermal insulation. PROMALAN® HT-insulation in the lower section of regenerative.

AREAS OF APPLICATION PROMALAN® HT 100-200

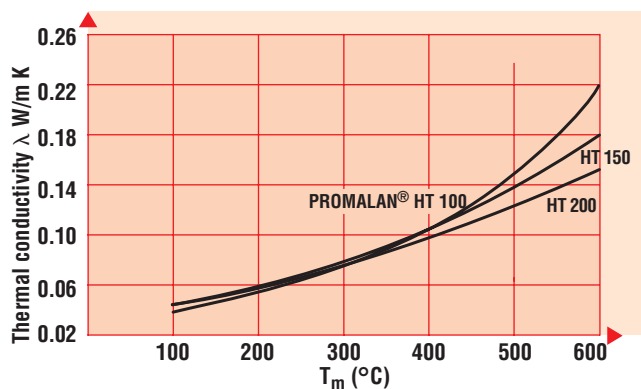
- Dimensionally stable rear lining in industrial furnace plants
- Insulating layer in steel cassettes for dryer and plant construction
- Insulation for ventilation and airconditioning
- Apparatus and tank construction, various use in flue gas ducts and chimney insulations
- Sound-proofing constructions (machine linings etc.)





TECHNICAL DATA

Product name	PROMALAN® HT-100/120/150/200				
Colour	yellow/green				
Building material class DIN 4102	A1, non-combustible				
Classification temperature	750 °C				
Binder evaporation	from 250 °C				
Specific heat capacity c	0,84 kJ/kgK				
Water-vapour diffusion-resistance value μ	1 up to 1,5				
Compatibility with austenitic steels	AS-quality according to AGI Q135				
	HT 100	HT 120	HT 150	HT200	
Bulk density ρ	100	120	150	200	
Thermal conductivity λ					
	100 °C	0,047	0,047	0,048	0,050
	200 °C	0,064	0,064	0,064	0,068
	300 °C	0,082	0,083	0,086	0,084
	400 °C	0,110	0,105	0,104	0,104
	500 °C	0,160	0,150	0,140	0,125
	600 °C	0,220	0,200	0,180	0,150



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
PROMALAN® HT 100		
1250 x 500 x 30 mm	6	22
1250 x 500 x 40 mm	5	20
1250 x 500 x 50 mm	4	20
1250 x 500 x 60 mm	3	22
PROMALAN® HT 120		
1250 x 500 x 30 mm	6	22
1250 x 500 x 40 mm	5	20
1250 x 500 x 50 mm	4	20
1250 x 500 x 60 mm	3	22
PROMALAN® HT 150		
1250 x 500 x 30 mm	6	22
1250 x 500 x 40 mm	5	20
1250 x 500 x 50 mm	4	20
1250 x 500 x 60 mm	3	22
PROMALAN® HT 200		
1250 x 500 x 30 mm	6	22
1250 x 500 x 40 mm	4	24
1250 x 500 x 50 mm	3	26
1250 x 500 x 60 mm	3	22