

Thermax® BOARDS HD 1200**Technical specification**

Classification Temperature	°C	1150
Bulk Density ± 5%	kg/m ³	1200
Modulus of Rupture (M.o.R.)	MPa	6.0
Cold Compressive Strength (C.C.S.)	MPa	9.0
Reheat Shrinkage, linear (1150 °C / 12h) %		< 2.0
Thermal Expansion, linear (20 – 700 °C) %		0.6
Thermal Conductivity		
200 °C	W/mK	0.31
400 °C	W/mK	0.32
600 °C	W/mK	0.33
Standard size (L x W)	mm	1000 x 610
Thickness	mm	20 – 80



Vermiculite HD 1200 boards are based on the well known mineral Vermiculite, which is related to mica. Mixed with different binders and shaped under high pressure this product is used in all refractory applications, where high mechanical strength in combination with low thermal conductivity is asked for.

HD stands for „high density“ and describes the very high density and the excellent edge strength of this product.

Application fields:

Industrial furnace construction, fireplaces and stoves, wood burning boilers, aluminium smelting, glass processing.

- (1) We are able to supply special formats and special thicknesses on request. We will be pleased to manufacture stampings, milled parts or cuttings according to your drawings.
- (2) The classification temperature is not to be equated with the maximum application temperature, in particular when physical conditions such as tensile or pressure loads are involved. For applications as high-temperature insulation, lower temperatures must always be applied. In these cases, our Engineering department will offer assistance and support.
- (3) Heat transmission calculations for this material can be requested from our Engineering department.

The information contained in this publication serves only for purposes of clarification, and is not intended to form the basis of contractual obligations.

Further information and advice on specific details of the products described can be obtained in writing from Techno-Physik Eng. GmbH (Germany). The TechnoPhysik Group is consistently running product development programmes and reserves the right to modify product specifications at any time without notice. The customer/user is thus always obliged to ensure that the material form Techno-Physik Eng. GmbH is suitable for his specific purposes. The specified values are average figures determined from current production and are intended only for information. Warranty claims cannot be derived from these figures. We recommend to test the material for your application.

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