■ COD. **2293L**
Vermiculite boards

Technical data sheet
Rev. 16/07/20

Description

These fireproof vermiculite boards are made from exfoliated vermiculite and special inorganic binders that provide a high level of resistance to high temperatures and thermal shock. They present no risk to health and do not contain asbestos, mineral fibres or glass. They are ideal for insulating wood stoves and fireplaces. This is an extremely innovative product for the flue sector and, thanks to its considerable properties, it offers notable advantages such as sufficient rigidity and mechanical stability, resistance to high temperatures, electrical resistance and low thermal conductivity. The vermiculite boards are simple and rapid to apply: they can be easily cut, drilled, punched, sanded and screwed.

Applications

Iron metallurgy industry, car industry, building work, ovens, boilers, stoves, direct vent fireplaces, fireplaces, smoke flues and inside of majolica stoves, industrial insulation, blast furnaces, boiling water containers, insulation of flues.

Sizes for density 750 kg/m³		
thickness 800 x 600 mm	**thickness 1220 x 1220 mm**	**thickness 1250x1000 mm**
15 - 25 - 30 secondo disponibilità		
Other thicknesses and densities on request		

Chemical analysis		
Silicon dioxide	SiO_2	46%
Titanium oxide	TiO_2	0,7%
Aluminium oxide	Al_2O_3	7%
Iron oxide	Fe_2O_3	5,5%
Magnesium oxide	MgO	19%
Calcium oxide	CaO	3,5%
Sodium oxide	Na_2O	0,2%
Potassium oxide	K_2O	10%
Loss on ignition a 1025°C	-	7%

Characteristics	
Maximum service temperature	1100°C
Bulk density, dry	750 kg/m³
Cold crushing strenght DS/EN ISO 8895: 2006	5,2 MPa
Modulus of rupture EN 993-6: 1995	2,0 MPa
Linear reheat shrinkage, 12 h at 1000°C EN 1094-6: 1999	1%
Total porosity EN 1094-4: 1995	74%
Coefficient of reversible thermal expansion 20°C-750°C BS 1902: section 5.3:1990	$11x10^{-6}$ K^{-1}
Resistance to thermal shock EN 993-11: 1999	> 30 cicli
Thermal conductivity ASTM C-182 200°C 400°C 600°C 800°C	 0,20 W/mK 0,22 W/mK 0,23 W/mK 0,24 W/mK
Colour	sand

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