

StoneREX Basic

Building board

StoneREX Basic cement bonded particleboard is a smooth-surfaced concrete-colored construction board, the main components of which are cement and chipboard.

Due to its strength and good weather resistance, StoneREX Basic cement bonded particleboards are suitable for indoor and outdoor use as a covering material for walls, floors and ceilings. The boards have good fire resistance (non-flammable - fire resistance class A2), impact resistant and good sound insulation. The facades of buildings with cement bonded particleboards save energy costs and the facades are ventilated, buildings do not generate excessive moisture or mold. Cement bonded particleboards with different surface treatments are very widely used, especially for insulation and renovation of buildings. In addition to private and apartment buildings, cement bonded particleboards are also suitable for the construction of large public buildings, production and warehouse buildings due to their good properties. The boards are used for the construction of load-bearing floors and for covering internal surfaces if a strong, fireproof and well-sound-insulated surface that is also moisture and mold resistant is desired. Slabs are lighter in volume than cast concrete or cement fiber slabs, making them more suitable for applications where the weight of the material is important. The boards are available as raw slabs, painted in all colors of the NCS or RAL catalog or covered with natural stone chips.



The product complies with the standard: EN 13986+A1 Flat cement bonded particleboard. Specification and test methods.

		Average values
Maximum width	mm	1250
Maximum length	mm	3350
Bulk density	kg/m ³	1350
Flexural strength	N/mm ²	11,5
Elasticity	N/mm ²	min. 6800
Tensile strength perpendicular to the plate surface	N/mm ²	min. 0,63
Equilibrium humidity at + 20 ° C relative humidity 50%	%	9,5
Linear expansion when the humidity changes by 30-85% at + 20 ° C	%	max. 0,122
Coefficient of thermal expansion		10x10 ⁻⁶ K ⁻¹
Water absorption 24h when soaking in water	%	max. 16
Swelling 24 hours after soaking in water	%	max. 0,28

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Expansion after repeated immersion in water	%	max. 0,31
Flammability		A2- s1, d0
Resistance to arc flame	Sec	10 mm- min. 143
Thermal conductivity	W/mK	8 mm- 0,200 22 mm- 0,251
Sound resistance	dB	8 mm- 30 24 mm- 33
Water vapor diffusion resistance constant		8 mm- 52,8 40 mm- 69,2
Frost resistance 100 cycles		RL= 0,97
pH level		12,5

