

Technical Data Sheet



CETRIS® PDP

CETRIS® PDP is a cement-bonded particleboard with a smooth surface, with a 45 mm wide semi-groove around the perimeter, produced by pressing a mixture of wood chips (19% of weight), Portland cement (69% of weight), water (10% of weight), hydrating additives (2% of weight) and then cutting and milling. The boards are supplied in formats from 1200x600 mm to 1250x1000 mm, 22 mm thick and with a semi-groove around the perimeter. Primarily designed for lightweight floating floor technology, for laying on insulation. Cement particleboards are intended primarily as a construction material in cases where moisture resistance, strength, fire resistance, ecological and hygienic safety are required at the same time. CETRIS® boards do not contain asbestos or formaldehyde and are resistant to insects and mould. They are non-flammable and soundproof.

Technical specifications:

basic size:	1,200 x 600 mm – 1,250 x 1,000 mm (including half groove)
board thickness:	22 mm
Bulk density:	1,150-1,500 kg/m ³
service:	the edges are milled with a 45 mm wide half groove
thickness tolerance:	±1.5 mm
surface finish:	without surface finish

Table of basic physical and mechanical properties of CETRIS® cement-bonded particleboards:	Limit values according to standard	Mean values - real
Bulk density acc. to EN 323:	min. 1,000 kg/m ³	1,350-1,500 kg/m ³
Bending tensile strength acc. to EN 310	min. 9.0 N/mm ²	min. 11.5 N/mm ²
Modulus of elasticity acc. to EN 310	min. 4,500 N/mm ²	min. 6,800 N/mm ²
Tensile strength perpendicular to the board plane acc. to EN 319	min. 0.5 N/mm ²	min. 0.63 N/mm ²
Internal bond after cycling in a humid environment according to EN 321	min. 0.3 N/mm ²	min. 0.41 N/mm ²
Reaction to fire acc. to EN 13 501-1		A2-s1, d0
Index of flame propagation along the surface acc. to the Czech standard ČSN 73 0863		i = 0 mm/min
Thickness swelling when stored in water for 24 hours	max. 1.5 %	max. 0.28 %
Thickness swelling after cycling in a humid environment according to EN 321	max. 1.5 %	max. 0.31 %
Linear expansion with changes in humidity from 35% to 85% at 23 °C according to EN 13 009		max. 0.122 %
Water absorption by the board when stored in water for 24 hours		max. 16 %
Thermal expansion coefficient acc. to EN 13 471		10 × 10 ⁻⁶ K ⁻¹
Coefficient of thermal conductivity acc. EN 12 664; thickness 8 to 40 mm		0.200 - 0.287W/mK
Airborne sound insulation according to Czech standard CSN 73 0513, th.8 to 40mm		30 dB – 35 dB
Diffusion resistance factor according to DIN EN ISO 12572, th.8 to 40		52.8 – 69.2
Resistance to frost at 100 cycles according to EN 1328	R _L > 0.7	R _L = 0.97
pH of the board material		12,5
Mass activity Ra 226	150 Bq/kg	22 Bq/kg
Mass activity index	I = 0.5	I = 0.21
Surface resistance to water and chemical de-icing agents acc. to Czech standard CSN 73 1326	Waste after 100 cycles max. 800 g/m ² (Method A)	Waste after 100 cycles max. 20.4 g/m ² (Method A)
	Waste after 75 cycles max. 800 g/m ² (Method C)	Waste after 100 cycles max. 47.8 g/m ² (Method C)

Dimensional tolerance:

Feature	Board thickness	Requirement
Thickness of uncut board	20-40 mm	±1.5 mm
Length and width of the basic format		±5.0 mm
Precision of cutting the length and width		±3.0 mm

Edge straightness tolerance		1.5 mm/m
Rectangularity tolerance		2.0 mm/m

Appearance:

Parameter	I.Quality class	II.Quality class
Deviation from the right angle	max. 2 mm/1 m of length	max. 4 mm/1 m of length
Permitted edge damage	max. to the depth of 3 mm	max. to the depth of 30 mm
Protrusions on the surface	max.1 mm, size 10 mm	max. 1 mm
Depressions	max.1 mm, size 10 mm	max. 2 mm

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