

Technical Data Sheet



CETRIS® LASUR

CETRIS® LASUR is a cement bonded particle board with a smooth surface, treated with pigmented primer paint and a varnish glazing as the colour top coat. It is 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); it is available in standard thicknesses of 10, 12, 14, 16 mm. Hue is possible to select according to the colour charts provided by the manufacturer of the CETRIS® boards. The glazing top coat provides a solid but non-uniform appearance. The basic size of the board is 3,350 x 1,250 mm. We deliver the boards cut to the sizes specified by the customer, with rounded edge or chamfered edge to 45° angle, milled boards with thickness of 12 mm rebated. The boards may also be delivered with pre-drilled holes. The CETRIS® LASUR boards are primarily used as exterior facade sheathing boards. The cement-bonded particleboard are used mainly as a structural material in cases where moisture resistance, strength, fire resistance, ecological and hygienic harmlessness are required at the same time. CETRIS® Boards do not contain either asbestos or formaldehyde; they are resistant to insects and mold exposure. They are fireproof and can provide sound insulation. The boards can be worked with conventional woodworking tools. The back side of CETRIS® LASUR cement bonded particle boards is treated with primer coat without a regular texture, look and sufficient covering power. The colour shade of the coat is not specific, therefore the requirement for a white or transparent shade needs to be specified in the order in advance.

Technical specifications:

basic size:	3,350 x 1,250 mm
board thicknesses:	10, 12, 14, 16 mm
Bulk density:	1,150-1,500 kg/m ³
service: to customer's requirements.	cutting, drilling holes, shrinkage, edge cutting and milling
shades:	according to the colour chart* CETRIS® LASUR (11 colours)
surface finish:	pigmented primer, varnish glazing top coat

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		B-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)
Resistance to arc discharge of high voltage according to EN 61 621		th. 10mm, min.143 sec
Shearing friction coefficient acc. to the Czech standard ČSN 74 4507		Static μ _s = 0.73 dynamic μ _d = 0.76

Mass balanced humidity at 20° and a relative humidity of 50% according to EN 634-1	9 ±3 %	9.50%
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Dimensional tolerance:

Feature	Board thickness	Requirement
Thickness of uncut board	10 mm	±0.7 mm
	12 mm	±1.0 mm
	14 mm	±1.0 mm
	16 mm	±1.2 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
Deviation from the right angle	max. 2 mm/1 m of length
Permitted edge damage	max. to the depth of 3 mm
Protrusions on the surface	max.1 mm, size 10 mm
Depressions	max.1 mm, size 10 mm