

# Product Data Sheet

## CETRIS® DEKOR

CETRIS® DEKOR is a 12 and 14mm thick, 1250 x 625mm format cement bonded particle board provided with an acrylic mosaic decorative plaster. It is manufactured through pressing a mixture of wood chips (19% of weight), Portland cement (69% of weight), water (10% of weight), hydrating additives (2% of weight) and through cutting and subsequent application of the decorative plaster.

CETRIS® DEKOR boards are supplied in 4 colour designs as per the sampler supplied by the CETRIS® board manufacturer. CETRIS DECOR boards in other thicknesses and formats are available for large-volume orders upon agreement with the manufacturer. The cement bonded particle boards are mainly intended as structural material where moisture resistance, strength and environmental and sanitary safety are required at the same time. CETRIS® boards do not contain asbestos or formaldehydes, are resistant to insects and moulds and are mainly used as exterior facade lining boards, as vertical plinth and facade lining, railing fillers and as suspended ceilings (roof boarding). The boards may be arbitrarily cut with a circular saw with a Tungsten Carbide wheel. In order to get a clean and straight cut, a guiding bar needs to be used and the boards must be cut from the reverse side as this will prevent damage to the face surface. After the cut, the edge must be provided with a protective base coat (supplied by the manufacturer). The holes are pre-drilled with a drill without hammering on a rigid base. A metal drill is recommended for use when drilling. The drill must be made on the face side at all times.

### Technical specifications:

basic format:	1 250 x 625 mm
board thicknesses:	12 – 14mm
specific weight:	12mm thickness - 20 kg/m <sup>2</sup> , 14mm thickness - 23 kg/m <sup>2</sup>
service: as requested by the customer	cutting
colour designs:	according to the CETRIS® DEKOR board sampler (four colour tinges)
surface treatment:	decorative mosaic plaster

Table of fundamental physical/mechanical properties of CETRIS® cement bonded particleboards:	Limit values according to the standard	Average values - actual values
Bulk density to ČSN EN 323:	min. 1,000 kg/m <sup>3</sup>	1,350-1,500 kg/m <sup>3</sup>
Bending tensile strength to ČSN EN 310	min. 9.0 N/mm <sup>2</sup>	min. 11.5 N/mm <sup>2</sup>
Module of elasticity to ČSN EN 310	min. 4,500 N/mm <sup>2</sup>	min. 6,800 N/mm <sup>2</sup>
Tensile strength perpendicular to board plain to ČSN EN 319	min. 0.5 N/mm <sup>2</sup>	min. 0.63 N/mm <sup>2</sup>
Fissility after cycling in moist environment to ČSN EN 321	min. 0.3 N/mm <sup>2</sup>	min. 0.41 N/mm <sup>2</sup>
Fire resistance to EN 13 501-1		B-s1,d0
Surface fire propagation index to ČSN 73 0863		i = 0 mm/min
Thickness swelling after cycling when placed in water for 24 hours	max. 1.5 %	max. 0.28 %
Thickness swelling after cycling in a moist environment to ČSN EN 321	max. 1.5 %	max. 0.31 %
Linear expansion at change of air humidity from 35% to 85% 23 °C to ČSN EN 13 009		max. 0.122 %
Board rate of absorption when placed in water for 24 hours		max. 16 %
Thermal expansion coefficient to ČSN EN 13 471		10 × 10 <sup>-6</sup> K <sup>-1</sup>
Thermal conductivity coefficient to ČSN EN 12 664, 8 - 40mm thickness		0.200 - 0.287W/mK
Airborne sound insulation to ČSN 73 0513, 8 - 40mm thickness		30 dB – 35 dB
Vapour resistance factor to ČSN EN ISO 12 572, 8 - 40mm thickness		52.8 – 69.2
Frost resistance at 100 cycles to ČSN EN 1328 – note	R <sub>L</sub> > 0,7	R <sub>L</sub> = 0.97
pH of the board		12,5
Activity by weight Ra 226	150 Bq/kg	22 Bq/kg
Index of activity by weight	I = 0.5	I = 0.21
Surface resistance to the effects of water and de-icing agents to ČSN 73 1326 – note	Waste after 100 cycles max. 800 g/m <sup>2</sup> (method A)	Waste after 100 cycles max.20.4 g/m <sup>2</sup> (method A)
	Waste after 75 cycles max. 800 g/m <sup>2</sup> (method C)	Waste after 100 cycles max.47.8 g/m <sup>2</sup> (method C)
Resistance to high-voltage arc discharge to EN 61 621		10mm th., min.143 sec

Mass balanced moisture at 20° and relative humidity of 50 %	to EN 634-1	9 ± 3 %	9.5%
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- pozn. - tyto vlastnosti jsou vztaženy k nosiči povrchové úpravy, tj. desce CETRIS BASIC

**Rozměrové tolerance:**

Vlastnost	Tloušťka desky	Požadavek
Thickness of a non-ground board	12 mm	±1.0 mm
	14 mm	±1.0 mm
Length and width for basic format		±5.0 mm
Sizing precision for length and width		±3.0 mm
Edge straightness tolerance		1.5 mm/m
Rectangularity tolerance		2.0 mm/m

**Appearance:**

Parameter	Quality class I
Deviation from the right angle	max. 2 mm/1 m of the length
Permissible edge damage	down to the depth of 3 mm maximum