

Product data sheet

Egger Compact Laminate White Core



Egger compact laminates white core are compact laminates according to DIN EN 438-9 with a white core based on curable resins. They have a multilayer structure and consist of melamine resin impregnated decorative paper and multiple layers of soda kraft paper impregnated with phenolic resins, which are laminated under high pressure and heat.

Applications / Application Areas

Egger compact laminate features good dimensional stability and is self-supporting from a thickness of ≥ 6 mm. This large-format board material with decorative, durable surfaces and closed cut edges is suitable for a wide variety of interior applications. The applications are varied and require the use of various compact laminate qualities, which must be selected according to the intended use. Classic uses or areas of application include the office furniture industry, exhibition stands, shop fitting and decorative interior design.

Storage / Processing

Storage

Compact laminate must be stored in enclosed and dry rooms, at approximately 18°C to 25°C and a relative humidity of approximately 50% to 65%. When the original packaging is removed, the compact laminate must be stored on horizontal, level and sturdy protective boards. Direct floor contact and/or exposure to the sun must be avoided in all cases. A laminated protective board (no raw chipboard) of at least the same format should be used to cover the top board. If horizontal storage is not possible, the compact laminate must be stored at an angle of approximately 80° against a full-surface support with counter-support. Using a laminated protective board of at least the same format is required for upright storage as well.

Processing

Compact laminate can be readily processed like other wood-based materials. Carbide metal tools are mainly used. Choosing diamond-tipped tools is recommended for large quantities and when machining centres are used. Despite the good dimensional stability of compact laminate, changes in the surrounding conditions may affect the board. Format changes therefore have to be taken into account at the outset for processing and design. An expansion play of 2.0 mm per 1 m should generally be allowed.

Further information on storage and processing is found in the processing instructions “Egger Compact Laminate”.

Quality Characteristics / Technical data

Classified as type BCS according to EN 438-9 (Coloured core laminate Compact Standard grade).

Property	Standard	Unit	BCS
Resistance to surface abrasion	EN 438-2: 10	Number of revolutions (per minute)	150 350
		Starting abrasion point	
		Abrasion value	
Scratch resistance	EN 438-2: 25	Grade	3
Resistance to stains group 1 and 2	EN 438-2: 26	Grade	5
Resistance to stains group 3	EN 438-2: 26	Grade	4
Light fastness (Xenon arc lamp)* ¹	EN 438-2: 27	Grey scale	4 3
		Surface	
		Core	
Stress crack susceptibility	EN 438-2: 24	Grade	4 3 * ³
		Surface	
		Core	
Resistance to cigarette burns	EN 438-2: 30	Grade	3
Levelness * ²	EN 438-2: 9	Depending on thickness in mm/m	12.0 8.0 5.0
		2.0 mm ≤ t < 6.0 mm	
		6.0 mm ≤ t < 10.0 mm	
		10.0 mm ≤ t	
Resistance to immersion in boiling water	EN 438-2: 12	Mass increase in %	5.0 3.0 6.0 4.0 4
		2 mm ≤ t < 5 mm	
		t ≥ 5 mm	
		Thickness increase in %	
		2 mm ≤ t < 5 mm	
		t ≥ 5 mm	
Dimensional stability at elevated temperatures	EN 438-2: 17	Cumulative dimension change in %	0.6 1.0 0.5 0.8
		2 mm ≤ t < 5 mm	
		L ^a	
		T ^b	
		t ≥ 5 mm	
Resistance to dry heat	EN 438-2: 16	Grade	4
Resistance to water vapour	EN 438-2: 14	Grade	4
Density	EN ISO 1183-1	g/cm ³	≥ 1.4
Modulus of elasticity for bending	EN ISO 178	MPa	9,000
Bending strength	EN ISO 178	MPa	80
Resistance to tension	EN IOS 527	MPa	60

*¹ Extraneous darkening and/or photochromism are due to the shock effect of accelerated exposure, and are not characteristics of natural exposure.

*² The established levelness values apply to compact laminate with decor on two sides. The limits for compact laminate with decor on one side need to be agreed upon.

*³ Moderate fractures run along the edges of the test specimen.

t is the nominal thickness of the compact laminate.

a L is lengthwise direction or compact laminate length.

b T is crosswise direction or compact laminate width.

Dimensions / Tolerances

Dimensions

Thickness range: 3, 5, 6, 8, 10, 12 and 13 mm

Standard size: 2,790 x 2,060 mm

Maximum length: 5,600 mm

Maximum width: 2,060 mm

Tolerances

Nominal thickness [mm]	Thickness tolerance [mm]	Length tolerance [mm]	Width tolerance [mm]
3	± 0.40	+10/-0	+10/-0
5 and 6	± 0.50	+10/-0	+10/-0
8 and 10	± 0.70	+10/-0	+10/-0
12 and 13	± 0.80	+10/-0	+10/-0

Decor Information

Colour and decor match

The colour appearance of the decor is influenced to a large degree by the core colour. The intensive, white core colour result in a colour difference compared to other Egger products.

“100% matching colours with EURODEKOR and laminate cannot be guaranteed.”

Direct combination of compact laminate white core is just possible with Eurodecor plus MW06 or MW08 or the solid laminate version of W1001.

Care and cleaning recommendations

Due to their resistant and hygienic, dense surfaces, Egger compact laminate products do not require any special form of care. Generally, the surfaces are easy to clean. This also applies to textured surfaces.

For further information, please consult the leaflet “Egger Laminate Cleaning and Maintenance Instructions”.

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