

# PRODUCT DATA SHEET

## EGGER COMPACT LAMINATE BLACK CORE



EGGER compact laminates black core are compact laminates according to EN 438-4, respectively EN 438-8 with a black 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  $\geq 6$  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

According to EN 438-4, EGGER compact laminate is classified as CGS (Compact General-purpose Standard). Compact laminate with full-surface pearlescent decors is classified according to EN 438-8 as type ACS (Pearlescent laminate Compact Standard grade). ACS compact laminate is suitable for vertical applications only.

Property	Standard	Unit	Value	
			CGS	ACS
Resistance to surface abrasion	EN 438-2:10	Number of revolutions (per minute)	150	-
		Starting abrasion point	350	-
		Abrasion value		
Shock resistance to a sphere with a large diameter	EN 438-2:21	Drop height in mm (inch)		
		2 mm ≤ t < 6 mm	1,400	800
		6 mm ≤ t	1,800	800
		Diameter of the impression in mm (inch)	≤ 10	≤ 12
Scratch resistance	EN 438-2:25	Grade	3	2
Resistance to staining group 1 and 2	EN 438-2:26	Grade	5	5
Resistance to staining group 3	EN 438-2:26	Grade	4	4
Light fastness (Xenon arc lamp, surface) *1	EN 438-2:27	Grey scale	4 to 5	4
Stress crack susceptibility	EN 438-2:24	Grade	4	-
Resistance to cigarette burns	EN 438-2:30	Grade	3	-
Levelness *2	EN 438-2:9	Depending on thickness in mm/m		
		2.0 mm ≤ t < 6.0 mm	8.0	8.0
		6.0 mm ≤ t < 10.0 mm	5.0	5.0
		10.0 mm ≤ t	3.0	3.0
Resistance to immersion in boiling water	EN 438-2:12	Mass increase in %		
		2 mm ≤ t < 5 mm	5.0	5.0
		t ≥ 5 mm	2.0	2.0
		Thickness increase in %		
		2 mm ≤ t < 5 mm	6.0	6.0
		t ≥ 5 mm	2.0	2.0
Appearance in degrees	4	4		
Dimensional stability at elevated temperatures	EN 438-2:17	Cumulative dimension change in %		
		2 mm ≤ t < 5 mm	L <sup>a</sup> 0.4	0.4
			T <sup>b</sup> 0.8	0.8
		t ≥ 5 mm	L <sup>a</sup> 0.3	0.3
		T <sup>b</sup> 0.6	0.6	
Resistance to dry heat	EN 438-2:16	Grade	4	-
Resistance to water vapour	EN 438-2:14	Grade	4	3
Resistance to moist heat (100 °C)	EN 12721:2009	Grade	4	-
Density	EN ISO 1183-1	g/cm <sup>3</sup>	≥ 1.35	≥ 1.35
Modulus of elasticity for bending	EN ISO 178	MPa	9,000	9,000
Bending strength	EN ISO 178	MPa	80	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.

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, 4, 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, 4 and 5	± 0.30	+10/-0	+10/-0
6	± 0.40	+10/-0	+10/-0
8 and 10	± 0.50	+10/-0	+10/-0
12 and 13	± 0.60	+10/-0	+10/-0


## Decor Information

### COLOUR AND DECOR MATCH

The colour perception of the decor is influenced to a large degree by the core colour. The intensive, black core colour can result in a colour difference compared to other EGGER products.

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

### COMPACT LAMINATE WITH PEARLESCENT DECOR

Pearlescent decors and therefore ACS-compact laminates are identified with a special icon in the ZOOM® Collection. This icon  stands for: “Only for vertical applications – pearlescent decor”.

## 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, detailed information please consult the leaflet “EGGER Laminate Cleaning and Maintenance Instructions”.

This technical data sheet has been carefully drawn up to the best of our knowledge. The information provided is based on practical experience as well as in-house tests and reflects our current state of knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or suitability for specific applications. We accept no liability for any mistakes, errors in standards or printing errors. In addition, technical modifications can result from the continuous further development, as well as from changes in standards and documents originating from statutory bodies. The contents of this technical data sheet should therefore not be considered as instructions for use or as legally binding. Unless otherwise stated, our General Terms and Conditions apply.