QUALITY MANAGEMENT ISO 9001



Coding: TD CL FX EN Revision: 02
Page: 1 of 4

PRODUCT DATA SHEET

EGGER COMPACT LAMINATE FLAMMEX EUROCLASS B



EGGER compact laminates Flammex Euroclass B are flame-retardant 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 Flammex is used wherever higher fire protection is required.

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.

Compact laminate Flammex can be mounted and installed in a wide variety of ways and with the help of various non-combustible mounting systems. Special tested mounting systems may have to be installed depending on the use of the rooms. The mounting systems and hardware have to be tailored to the area of application.

Further information on storage and processing is found in the processing instructions "EGGER Compact Laminate".

QUALITY MANAGEMENT ISO 9001



Coding: TD CL FX EN

Revision: 02 Page: 2 of 4

Fire behaviour

EGGER compact laminate Flammex Euroclass B meets the special requirements of EN 13501-1 in case of fire. According to EN 13501-1, the reaction to fire is classified as follows: **B**

The additional classification in regards to smoke development is: **s2**

The additional classification in regards to dripping / dropping while burning is: d0

The classification format for the reaction to fire of the construction product is:

Fire behaviour	Smoke class		Burning droplets class	
В	S	2	d	0

i.e. **B - s2, d0**

Quality Characteristics / Technical Data

EGGER compact laminate Flammex Euroclass B is classified as CGF (Compact General-purpose Flame-retardant) according to EN 438-4. Compact laminate with full-surface pearlescent decors is classified according to EN 438-8 as type ACF (Pearlescent laminate Compact Flame-retardant).

Property	Standard	Unit	Value	
			CGF	ACF
Resistance to surface abrasion	EN 438-2: 10	Number of revolutions (per minute)		
		Starting abrasion point	150	-
		Abrasion value	350	-
Shock resistance to a sphere with a large	EN 438-2: 21	Drop height in mm		
diameter		2 mm ≤ t < 6 mm	1,400	800
		6 mm ≤ <i>t</i>	1,800	800
		Diameter of the impression in mm	≤ 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 ≤ <i>t</i> < 6.0 mm	8.0	8.0
		6.0 mm ≤ <i>t</i> < 10.0 mm	5.0	5.0
		10.0 mm ≤ <i>t</i>	3.0	3.0
Resistance to immersion in boiling water	EN 438-2: 12	Mass increase in %		
		<i>t</i> ≥ 5 mm	2.0	3.0
		Thickness increase in %		
		<i>t</i> ≥ 5 mm	2.0	6.0
		Appearance in degrees	4	4
Dimensional stability at elevated	EN 438-2: 17	Cumulative dimension change in %		
temperatures		t ≥ 5 mm L a	0.3	0.3
		Ть	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

QUALITY MANAGEMENT ISO 9001



Coding: TD CL FX EN Revision: 02

Page: 3 of 4

Property	Standard	Unit Value		ue
			CGF	ACF
Resistance to moist heat (100 °C)	EN 12721:2009	Grade	4	-
Density	EN ISO 1183-1	g/cm³	≥ 1.35	≥ 1.35
Modulus of elasticity for bending	EN ISO178	МРа	9,000	9,000
Bending strength	EN ISO178	МРа	80	80
Resistance to tension	EN ISO527	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 Lis lengthwise direction or compact laminate length.
- b T is crosswise direction or compact laminate width.

Dimensions / Tolerances

DIMENSIONS

Thickness range: 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

Nominalthickness [mm]	Thickness tolerance [mm]	Length tolerance [mm]	Width tolerance [mm]
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.

COMPACT LAMINATE WITH PEARLESCENT DECOR

Pearlescent decors and therefore **ACF** compact laminates are identified with a special icon in the ZOOM® Collection. This icon for: "Only for vertical applications – pearlescent decor".

[&]quot;100% matching colours with EURODEKOR and laminate cannot be guaranteed."

QUALITY MANAGEMENT ISO 9001



Coding: TD CL FX EN

Revision: 02 Page: 4 of 4

Care and cleaning recommendations

Due to their resistant and hygienic, dense surfaces, EGGER compact laminates Flammex Euroclass B 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".