



# Fibralex<sup>®</sup> FR Black

High quality fire retardant MDF for use in dry conditions.

High-density MDF board, coloured black in the mass, with a hard, fine and smoothly sanded surface. Fibralex FR Black has low formaldehyde emission (E1 class). Moreover, Fibralex FR Black meets the requirements set by the California Air Resource Board. According to ASTM E 1333-96, formaldehyde emission is less than 0,11 ppm, which corresponds to CARB, phase 2 as set by the ACTM. This MDF board also meets the requirements of EPA, as set by TSCA Title VI. Fibralex FR Black is hardly flammable (European fire reaction classification B), has a significantly delayed combustion and does not contribute to flame spread. For thickness from 9 to 15,9 mm, Fibralex FR Black is B-s2-d0 certified (EN 13501-1). For thickness from 16 to 19 mm, Fibralex FR Black is B-s1-d0 certified (EN 13501-1).

## Applications

- Interior decoration
- Furniture production
- Acoustic panels

## Characteristics



MDF.LA FR (EN 622-5)



High density



Structural applications



Fire retardant



Core coloured



# Fibralux<sup>®</sup> FR Black

## Applications

Fibralux FR Black is suitable for interior decoration, industrial processing, and furniture production. The board can be lacquered or finished with paper, foil, melamine, veneer or high pressure laminate.

Fibralux FR Black is very much appreciated in applications where MDF panels are perforated (e.g. acoustic ceilings or wall systems). As the boards are coloured black in the mass, the perforations or grooves are also black and give a nice contrast with the surface finishing of the panel. The same applies for the edges: further processing of the panel edges is not always necessary to have a nice esthetical finishing.

Fibralux FR Black can be used in applications where MDF panels with a reduced fire reaction, flame spread and smoke development are requested (such as finishing of stairway halls, escape routes or lift shafts in public buildings such as hospitals, airports, retirement homes, theatres, hotels, etc...).

Fibralux FR Black can also be used as part of a building element or system that is aimed at having an increased fire resistance, such as fire doors, ceiling systems or partition walls. The fire resistance certification of such elements or buildings systems in line with local regulations is the responsibility of its producer. The board must be applied in service class 1 (restrictions in temperature and ambient

humidity) and can only be used in biological hazard class 1 of EN 335-3. The boards must be protected from any direct contact with water. They must be stacked flat, on a pallet or using a sufficient number of cross members. Boards should not be stored vertically, unless ground contact can be avoided.

The board will expand or shrink under variable humidity conditions. Use suitable sawing, milling and drilling tools. The fire retarding products and dyes in the board may in exceptional cases affect certain glues or paints. Always perform a test before use.

**Important remark:** Unilin core coloured MDF panels are produced according to our highest quality standards & internal specifications. However, the use of natural raw materials may result in:

- colour differences between different production batches & panel thicknesses.
- the appearance of small, non-coloured wood fibres, which is normal and a desired effect. On the panel's surface, the shape, density and size of these fibres might differ.

For each project, it is recommended to use panels from the same production batch only, and to carefully select & assess the panels prior to installation.

## Technical specifications

Property	Test method	Unit	Ranges of nominal thickness (mm)				
			> 4 to 6	> 6 to 9	> 9 to 12	> 12 to 19	> 19 to 30
Swelling in thickness 24 h	EN 317	%	30	17	15	12	10
Internal bond	EN 319	N/mm <sup>2</sup>	0,70	0,70	0,65	0,60	0,60
Bending strength	EN 310	N/mm <sup>2</sup>	29	29	27	25	23
Modulus of elasticity in bending	EN 310	N/mm <sup>2</sup>	3000	3000	2800	2500	2300

## Available dimensions and thicknesses

Thickness: 6 to 30 mm. Maximum width 255 cm. Maximum length 630 cm. Standard thicknesses and dimensions are listed in our extensive stock program. Furthermore, Unilin has high-capacity saws that support all sawing dimensions. In principle, all thicknesses and lengths/widths are available within the press capabilities. Contact our sales team or send an e-mail to [info.panels@unilin.com](mailto:info.panels@unilin.com) for further details.

## Certificates

UNILIN Division Panels is actively committed to sustainable forest management.

Fibralux FR Black is available on demand with PEFC and FSC labelling.



CARB II/TSCA VI  
COMPLIANT