



Fibrabel[®] FR Wheelmark

High quality, fire retardant
MDF board for use in dry conditions.

MDF board with a hard, fine and smoothly sanded surface.

Fibrabel FR Wheelmark has low formaldehyde emission (E1 class). Moreover, Fibrabel FR Wheelmark 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. Fibrabel FR Wheelmark is hardly flammable (European fire reaction classification B), has a significantly delayed combustion and does not contribute to flame spread. Fibrabel FR Wheelmark is B-s1-d0 certified (EN 13501-1).

For thickness 15 to 25 mm, Fibrabel FR Wheelmark holds the EC Quality system (Module D) certificate (No. MED-D-0212), confirming that UNILIN maintains and applies a quality system in accordance with the requirements of the Maritime Equipment Directive Annex B, Module D. This certificate is issued by SINTEF NBL, a notified body under the terms of the "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. Fibrabel FR Wheelmark is labelled with the "Mark of Conformity" (Wheelmark). Fibrabel FR Wheelmark is in principle coloured red in the mass. The dye is only used for reasons of recognition. The intensiveness of the red colour might vary between different production batches and thicknesses. Fibrabel FR Wheelmark can also be supplied uncoloured.

Applications

- Interior decoration
- Furniture production
- Industrial processing

Characteristics



L-MDF FR (EN 622-5)



Fire retardant



Fibrabel[®] FR Wheelmark

Applications

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

Technical specifications

Property	Test method	Unit	Ranges of nominal thickness (mm)	
			> 12 to 19	> 19 to 30
Swelling in thickness 24 h	EN 317	%	14	12
Internal bond	EN 319	N/mm ²	0,45	0,45
Bending strength	EN 310	N/mm ²	18	15
Modulus of elasticity in bending	EN 310	N/mm ²	1600	1500

Available dimensions and thicknesses

Thickness: 15 to 25 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 for further details.

Certificates

UNILIN Division Panels is actively committed to sustainable forest management. Fibrabel FR Wheelmark is available on demand with PEFC and FSC labelling.

CARBII/TSCAVI
COMPLIANT



ASTM E84
COMPLIANT