



Fibralex[®] FR

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

High-density MDF board with a hard, fine and smoothly sanded surface. Fibralex FR has low formaldehyde emission (E1 class). Moreover, Fibralex FR 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 is hardly flammable (European fire reaction classification B), has a significantly delayed combustion and does not contribute to flame spread. For thickness from 6 to 11,9 mm, Fibralex FR is B-s2-d0 certified (EN 13501-1). For thickness from 12 to 30 mm, Fibralex FR is B-s1-d0 certified (EN 13501-1). Fibralex FR is labelled with Ü-sign according DIN 4102 class B1. Fibralex FR 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. Fibralex FR can also be supplied uncoloured.

Applications

- Interior decoration
- Furniture production
- Skirtings & profiles

Characteristics



MDF.LA FR (EN 622-5)



High density



Structural applications



Fire retardant



Fibralux[®] FR

Applications

Fibralux FR 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. Fibralux FR 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 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) | | | | |
|----------------------------------|-------------|-------------------|----------------------------------|----------|-----------|------------|------------|
| | | | > 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 ² | 0,70 | 0,70 | 0,65 | 0,60 | 0,60 |
| Bending strength | EN 310 | N/mm ² | 29 | 29 | 27 | 25 | 23 |
| Modulus of elasticity in bending | EN 310 | N/mm ² | 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 for further details.

Certificates

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

CARB II/TSCA VI
COMPLIANT



ASTM E84
COMPLIANT