

Fibralux® MR Black

High quality moisture-repellent MDF for use in humid conditions, also suitable for construction purposes with instantaneous or short-term load duration.

High-density MDF board, coloured black in the mass with a hard, fine and smoothly sanded surface. The board is subject to minimal expansion and swelling in conditions of high humidity. Fibralux MR Black has low formaldehyde emission (E1 class). Moreover, Fibralux MR 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.

Applications

- Interior decoration
- Furniture production
- Acoustic panels

Characteristics

- MDF.HLS (EN 622-5)
- High density
- Structural applications
- Moisture resistant
- Core coloured



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Fibralux® MR Black

Applications

Fibralux MR 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 MR Black board can als be used for load-bearing applications in humid conditions.
Fibralux MR 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.
The board can be applied in service class 2 (restrictions in temperature and ambient humidity) and can be used in biological hazard classes 1 and 2 of EN 335-3. During and especially after installation the boards must, wherever possible, be optimally 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/shrink under variable humidity conditions, meaning that an expansion space must be provided for at all times. Use suitable sawing, milling and drilling tools. Fibralux MR Black can be used for structural walls, with a restriction in the load duration class. In service class 2, corrosion resistant fittings must be used, e.g., galvanised steel. Nails or screws should be kept at least 5/16" away from the edge of the board.

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	%	18	12	10	8	7
Internal bond	EN 319	N/mm²	0,70	0,80	0,80	0,75	0,75
Bending strength	EN 310	N/mm²	34	34	32	30	28
Modulus of elasticity in bending	EN 310	N/mm²	3000	3000	2800	2700	2600
Option 1							
Swelling in thickness after cyclic testing	EN 317 EN 321	%	25	19	16	15	15
Internal bond after cyclic testing	EN 319 EN 321	N/mm²	0,35	0,30	0,25	0,20	0,15
Option 2							
Internal bond after boil test	EN 319 EN 1087-1	N/mm²	0,20	0,15	0,15	0,12	0,12

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 MR Black is available on demand with PEFC and FSC labelling.

CARB II/TSCA VI COMPLIANT

CE EN14041

UNILIN, division panels
Ingelmunstersteenweg 229 – 8780 Oostrozebeke – Belgium
info.panels@unilin.com / www.unilinpanels.com

01.04.2019



USA

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Technical specifications

Property	Test method	Unit				
			15/64 - 23/64	> 23/64 - 15/32	> 15/32 - 3/4	> 3/4 - 1 3/16
Swelling in thickness 24 h	EN 317	%	12	10	8	7
Internal bond	EN 319	psi	116	116	109	109
Bending strength	EN 310	psi	4 930	4 640	4 350	4 060
Modulus of elasticity in bending	EN 310	psi	435 000	406 000	392 000	377 000
Option 1						
Swelling in thickness after cyclic testing	EN 317 EN 321	%	19	16	15	15
Internal bond after cyclic testing	EN 319 EN 321	psi	44	36	29	22
Option 2						
Internal bond after boil test	EN 319 EN 1087-1	psi	22	22	17	17

Available dimensions and thicknesses

Thickness: 15/64"- 1 3/16". Maximum width 8.2 ft. Maximum length 20 ft. 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.

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