

USA

Fibralux® MR FR NAF (MR50)

High quality fire retardant and moisture resistant MDF board for use in humid conditions. This MDF-board is produced with a no added formaldehyde resin (NAF).

High-density MDF board with a hard, fine and smoothly sanded surface, characterised by extremely low formaldehyde emission. Fibralux MR FR NAF is approved (n° N-18-177) by the Air Resource Board (ARB) as a no-added formaldehyde resin (NAF) MDF board (section 93120.3 of the ATCM 'Airborne Toxic Control Measure').
This implies that formaldehyde emission is less than 0,04 ppm (90% of tested material), with a maximum of 0.06 ppm for every single measurement. Fibralux MR FR NAF (MR50) panels are exempt from third party certification and testing for compliance with the Toxic Substances Control Act (TSCA), Title VI ("EPA NAF"). Fibralux MR FR NAF is hardly flammable (ASTM E84 Class A/Class 1 rating for thicknesses 23/64" - 1 3/16" and European fire reaction classification B), has a significantly delayed combustion and does not contribute to flame spread. For all available thicknesses (from15/64" - 1 3/16"), Fibralux MR FR NAF is B-s1-d0 certified (EN 13501-1). Fibralux MR FR NAF also meets the criteria required for the MR50/grade 115 designation (ANSI A208.2-2016). It passes the 24-hour submersion test (MR10) and the 6 cycle accelerated aging test (MR30).

Applications

- Interior decoration
- Furniture production
- Mouldings & profiles

Characteristics

- MDF.H FR (EN 622-5)
- High density
- Moisture resistant
- Fire retardant
- Non-added formaldehyde (NAF)



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Fibralux® MR FR NAF

Applications

Fibralux MR FR NAF 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.
The combination of fire retardant products and the no-added formaldehyde resin may in exceptional cases affect certain glues or paints. Always perform a test before use. Fibralux MR FR NAF 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 MR FR NAF 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 2 (restrictions in temperature and ambient humidity) and can only be used in biological hazard class 1 of EN335-3. 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.

Technical specifications

Property	Test method	Unit	Ranges of nominal thickness (inch)			
			> 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	3920	3770	3480	3190
Modulus of elasticity in bending	EN 310	psi	392000	363000	348000	334000
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

GRADE 115 Property	Test method	Unit	Ranges of nominal thickness (in)	
			<= 19/32	> 19/32
Maximum Thickness Swell	ASTM D1037-12	inch	0.065	
		%		11
Internal bond	ASTM D1037-12	psi	78	
Bending strength	ASTM D1037-12	psi	3 130	
Modulus of elasticity in bending	ASTM D1037-12	psi	313 000	

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.

Certificates

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

NAF N-18-177 CE EN14041 ASTM E84 COMPLIANT (CLASS A/1) MR50 / GRADE 135

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