

USA

Fibrabel[®] MR NAF (MR50)

High quality, lightweight moisture-repellent board for non load-bearing applications in humid conditions.

Lightweight MDF board with a hard, fine and smoothly sanded surface. The board is subject to minimal expansion and swelling in conditions of high humidity and is suitable for general, non-load-bearing applications in humid conditions. Fibrabel MR NAF (MR50) is approved (n° N-18-177) by the Air Resource Board (ARB) as a no-added formaldehyde based 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. MDF Fibrabel MR NAF (MR50) are exempt from third party certification and testing for compliance with the Toxic Substances Control Act (TSCA), Title VI ("EPA NAF"). Fibrabel MR NAF (MR50) 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). Fibrabel MR NAF (MR50) is supplied uncoloured.

Applications

- Interior decoration
- Furniture production
- Mouldings & profiles

Characteristics



L-MDF.H (EN 622-5)



Moisture resistant



Non-added formaldehyde (NAF)



Fibrabel[®] MR NAF (MR50)

Applications

Fibrabel MR NAF (MR50) 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.

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 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 or shrink under variable humidity conditions, albeit to a lesser extent than standard MDF. Consequently, an expansion space should be provided for at all times. Use suitable sawing, milling and drilling tools. Fibrabel MR NAF (MR50) can be used for walls and interior decoration. In service class 2, corrosion resistant fittings must be used, e.g., galvanised steel. Nails or screws should be kept at least 8 mm away from the edge of the board.

Technical specifications

Property	Test method	Unit	Ranges of nominal thickness (in)			
			> 23/64 - 15/32	> 15/32 - 3/4	> 3/4 - 1 3/16	> 1 3/16 - 1 37/64
Swelling in thickness 24 h	EN 317	%	16	15	15	15
Internal bond	EN 319	psi	65	65	65	58
Bending strength	EN 310	psi	2 320	2 175	2 175	2 175
Modulus of elasticity in bending	EN 310	psi	247 000	232 000	218 000	203 000
Option 1						
Swelling in thickness	EN 317	%	16	15	15	15
after cyclic testing	EN 321					
Internal bond	EN 319	psi	36	29	22	15
after cyclic testing	EN 321					
Option 2						
Internal bond	EN 319	psi	22	17	17	15
after boil test	EN 1087-1					

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		68
Bending strength	ASTM D1037-12	psi		1 800
Modulus of elasticity in bending	ASTM D1037-12	psi		180 000

Available dimensions and thicknesses

Thickness: 5/16" - 1 37/64". Maximum width 8.2 ft. Maximum length 20 ft. 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 MR NAF (MR50) is available on demand with PEFC and FSC labelling.



MR50 / Grade 115