



Firax® Hydro Pure



Product class

Type FR-MDF.H according to EN 622-5

Scope

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).

Description

High-density MDF board with a hard, fine and smoothly sanded surface, characterised by extremely low formaldehyde emission.

MDF Firax® Hydro Pure is approved (n° N-14-177) 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.

Upon request, this MDF board can be supplied with PEFC or FSC Mixed Credit certificate.

MDF Firax® Hydro Pure is hardly flammable (ASTM E84 Class A/Class 1 rating for thicknesses 9 - 30 mm and European fire reaction classification B), has a significantly delayed combustion and does not contribute to flame spread. For all available thicknesses (from 6 to 30 mm), MDF Firax® Hydro Pure is B-s1-d0 certified (EN 13501-1).

Firax Hydro® Pure also meets the criteria required for the MR50/grade 135 designation (ANSI A208.2-2016). It passes the 24-hour submersion test (MR10) and the 6 cycle accelerated aging test (MR30).

Use of the product

MDF Firax® Hydro Pure 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.

MDF Firax® Hydro Pure 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...).

MDF Firax® Hydro Pure 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.





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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 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.

Dimensions

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, Spanolux 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 sales.spanolux@unilin.com for further details.

Technical specifications

Property	Test method	Unit	Ranges of nominal thickness (mm)			
			> 6 to 9	> 9 to 12	> 12 to 19	> 19 to 30
Swelling in thickness 24 h	EN 317	%	12	10	8	7
Internal bond	EN 319	N/mm ²	0,80	0,80	0,75	0,75
Bending strength	EN 310	N/mm ²	27	26	24	22
Modulus of elasticity in bending	EN 310	N/mm ²	2700	2500	2400	2300
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	N/mm ²	0,30	0,25	0,20	0,15
Option 2						
Internal bond after boil test	EN 319 EN 1087-1	N/mm ²	0,15	0,15	0,12	0,12



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