



Umidax®

Product class

MDF-HLS

Standard reference

EN 622-5

Producer

SPANOLUX

Solution



MOISTURE RESISTANT
Wood Based Solutions



CONSTRUCTION/FLOORING
Wood Based Solutions

Scope

Moisture resistant high density MDF board for use in humid conditions, also suitable for structural applications with instantaneous or short-term load duration.

Description

High-density MDF with hard, fine sanded surface and particularly screwable core, MUF glued. The board is subject to minimal expansion and swelling in conditions of high humidity. Suitable for load-bearing applications in humid conditions, Umidax® can be refined with paper, melamine, veneer, laminate or lacquer. Umidax is made of 100 % softwood and has no coarse fibres in the surface. The board is very easy to mill and has low formaldehyde emission (E1 class).

Use of the product

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, albeit to a lesser extent than the MDF Standard, meaning that an expansion space must be provided for at all times. Use suitable sawing, milling and drilling tools. Umidax 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 8 mm away from the edge of the board.

Dimensions and stock range

Thickness: 6 to 30 mm. Max. width and length: 244 - 255 to 635 cm length. 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 agent or mail to sales@spanolux.be.

Stock range

Dimensions Umidax®	Quantities per pack									
Thickness (mm)	6	9	12	15	16	18	19	22	25	30
122x213						40				
122x244	120	80	60	50	45	40	40	32	28	24
122x305	120	80	60	50	45	40	40	32	28	24
122x366							20			

Technical specifications

General characteristics + standard	Unit	Average values											
Thickness EN 324-1	mm	6	8	9	10	12	15	16	18	19	22	25	30
Density EN 323	Kg/m ³	810	790	760	750	740	730	730	730	730	700	700	700
Moisture content EN 322	%	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10
Technical characteristics + standard		5/95 Percentile values											
Swelling/24h EN 317	%	18	12	12	10	10	8	8	8	8	7	7	7
Internal bond EN 319	N/mm ²	0,7	0,8	0,8	0,8	0,8	0,75	0,75	0,75	0,75	0,75	0,75	0,75
Bending strength EN 310	N/mm ²	34	34	34	32	32	30	30	30	30	28	28	28
Modulus of elasticity EN 310	N/mm ²	3000	3000	3000	2800	2800	2700	2700	2700	2700	2600	2600	2600
Swelling after cyclic test EN 321 option 1	%	25	19	19	16	16	15	15	15	15	15	15	15
Internal bond after cyclic test EN 321 option 1	N/mm ²	0,35	0,3	0,3	0,25	0,25	0,2	0,2	0,2	0,2	0,15	0,15	0,15

General specifications

Property	Standard	Unit	Fibreboards - Specifications Part 1: General requirements	
			Nominal thickness classes (mm)	
			≤19	>19
Tolerances on nominal dimensions:				
Thickness	EN 324-1	mm	± 0,2	± 0,3
Length and width	EN 324-1	mm/m	± 2,0 mm/m, max. ± 5,0 mm	
Squareness	EN 324-2	mm/m	≤2,0 mm/m	
Edge straightness length and width	EN 324-2	mm/m	≤1,5 mm/m	
Tolerance on density within a board	EN 323	%	± 7,0	
Formaldehyde Perforator Class E1	EN 120	mg/100g	≤8	

UMIDAX® meets the specifications of EN 622-5, option 1, cyclic test, in which the board is immersed in water, frozen and finally dried. This cycle is repeated 3 times, after which the test specimens are tested for swelling and internal bond strength. The board is CE marked and checked daily by the in-house lab.



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