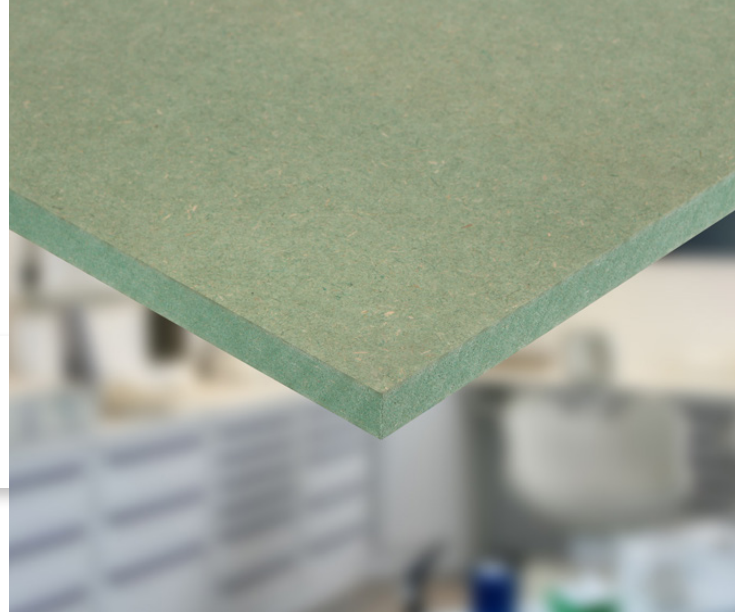




**Umidax®**

**CARB II  
COMPLIANT**



## Product class

Type MDF.HLS according to EN 622-5

## Scope

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

## Description

High-density MDF board with a hard, fine and smoothly sanded surface. The board is subject to minimal expansion and swelling in conditions of high humidity.

MDF Umidax® is has low formaldehyde emission (E1 class). Moreover, MDF Umidax® meets the requirements set by the California Air Resource Board (CARB - phase 2). 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.

Upon request, this MDF board can be supplied with PEFC, FSC or FSC Controlled Wood certificate.

MDF Umidax® is in principle coloured green in the mass. The dye is only used for reasons of recognition. The intensiveness of the green colour might vary between different production batches

and thicknesses. MDF Umidax® can also be supplied uncoloured. Please contact Spanolux for further details and minimum order quantities.

## Use of the product

MDF Umidax® 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. MDF® Umidax can also be used for load-bearing applications in humid conditions.

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 MDF S-Lux, meaning that an expansion space must be provided for at all times.



**SPANOLUX**  
Wood Based Solutions





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Use suitable sawing, milling and drilling tools. MDF 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

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.com](mailto:sales@spanolux.com) for further details.

### 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/mm <sup>2</sup>	0,70	0,80	0,80	0,75	0,75
Bending strength	EN 310	N/mm <sup>2</sup>	34	34	32	30	28
Modulus of elasticity in bending	EN 310	N/mm <sup>2</sup>	3000	3000	2800	2700	2600
<b>Option 1</b>							
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/mm <sup>2</sup>	0,35	0,30	0,25	0,20	0,15
<b>Option 2</b>							
Internal bond after boil test	EN 319 EN 1087-1	N/mm <sup>2</sup>	0,20	0,15	0,15	0,12	0,12



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