

SPECIFICATIONS			
<b>PRODUCT</b>	UMIDAX	<b>DATE</b>	16/08/2011
<b>CE-CLASS</b>	MDF-HLS	<b>EUROPEAN STANDARD</b>	EN 13986

### DESCRIPTION

The works will be delivered and installed with a specially treated moisture resistant, high-density MDF (Medium Density Fibreboard) with hard, smooth sanded and fine surface.

The MDF board is extremely workable, very easy to mill and is suitable for industrial processing for interior decoration and furniture production.

The MDF board has a MDF-HLS product classification (ref. European Standard EN 622-5): requirements for load-bearing boards for use 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.

The MDF board is made of 100% softwood and has no coarse fibres in the surface, is MUF glued and is subject to minimal expansion and swelling in conditions of high humidity.

The MDF board has low formaldehyde emission (E1 class).

For recognition a green colour is added. Possibly differences in colour between different thicknesses and packing are to be considered as normal.

The manufacturer must be ISO 9001:2000, ISO 14001:2004 and OHSAS 18001:1999 certified.

### FINISHING

The board is delivered smooth sanded and can be refined with paper, melamine, laminate or lacquer and be further processed to plinths, profiles, wall- and ceiling panels, ...

### STANDARD DIMENSIONS

1220x2440mm

1220x3050mm

Stocklist, other thicknesses and dimensions available on request.

## PRODUCT CHARACTERISTICS

Property	Unit	Average values											
		6	8	9	10	12	15	16	18	19	20	25	30
Thickness EN324-1	mm	6	8	9	10	12	15	16	18	19	20	25	30
Density EN323	Kg/m <sup>3</sup>	810	790	760	750	740	730	730	730	730	700	700	700
Moisture content EN322	%	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10
5/95 Percentile values													
Swelling after 24h EN317	%	18	12	12	10	10	8	8	8	8	7	7	7
Internal bond EN319	N/mm <sup>2</sup>	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 EN310	N/mm <sup>2</sup>	34	34	34	32	32	30	30	30	30	28	28	28
Modulus of elasticity EN310	N/mm <sup>2</sup>	3000	3000	3000	2800	2800	2700	2700	2700	2700	2600	2600	2600
Swelling after V313 test EN321	%	25	19	19	16	16	15	15	15	15	15	15	15
Internal bond after V313 test EN321	N/mm <sup>2</sup>	0,35	0,30	0,30	0,25	0,25	0,20	0,20	0,20	0,20	0,15	0,15	0,15

## TOLERANCES

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	