

# SWISSMDF

## Medium density fibreboard (MDF)

Technical class	Medium density fibreboard (MDF, dry process board) according to EN 622-5 for internal use as non-structural components in dry conditions.							EN 622-1	
Application	<ul style="list-style-type: none"> <li>- As a base board for lining surfaces of furniture/interiors</li> <li>- Board element in wall, floor, and roof structures, non loadbearing</li> </ul>								
Product range	www.swisskrono.ch → products								
Thickness	<b>3-4</b>	<b>5-6</b>	<b>8</b>	<b>10-12</b>	<b>16-19</b>	<b>22-30</b>	<b>40</b>	mm	EN 324-1
Thickness tolerance	±0.2	±0.2	±0.2	±0.2	±0.2	±0.3	±0.3	mm	EN 324-1
Final surface sanding (Grit size)	100	100	100	100	100	100	100	Korn	
Density	840-890	800-850	730-780	700-780	700-750	700-750	700-750	kg/m <sup>3</sup>	EN 323
Bending strength	23.0	23.0	23.0	22.0	20.0	18.0	17.0	N/mm <sup>2</sup>	EN 310
Modulus of elasticity	-	2700	2700	2500	2200	2100	1900	N/mm <sup>2</sup>	EN 310
Internal bond strength	0.65	0.65	0.65	0.60	0.55	0.55	0.50	N/mm <sup>2</sup>	EN 319
Surface soundness	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N/mm <sup>2</sup>	EN 311
Moisture content	≥4.5	≥4.5	≥4.5	≥4.5	≥4.5	≥4.5	≥4.5	%	EN 322
Thickness swelling (in water 24h)	≤35	30	17	15	12	10	8	%	EN 317
Formaldehyde emission CARB / TSCA Title VI compliant	-	-	≤0.11	≤0.11	≤0.11	≤0.11	≤0.11	ppm	ASTM D 6007
Formaldehyde emission E1	≤0.124	≤0.124	≤0.124	≤0.124	≤0.124	≤0.124	≤0.124	ppm	EN 717-1
Formaldehyde content E1	≤8	≤8	≤8	≤8	≤8	≤8	≤8	mg/100g	EN ISO 12460-5
Pentachlorophenol (PCP)   Lindane	n.d   n.d (not detectable)						mg	CEN/TR 14823	
Thermal conductivity	0.15	0.15	0.14	0.13	0.13	0.13	0.13	W/(mK)	EN 13986
Water vapour resistance [humid   dry]	23   33	21   31	20   30	18   27	17   26	17   26	17   26		EN 13986
Airborne sound insulation	--	--	24	26	28	30	33	dB	EN 13986
Reaction to fire	E RF4	E RF4	D-s2, d0 RF3	D-s2, d0 RF3	D-s2, d0 RF3	D-s2, d0 RF3	D-s2, d0 RF3		EN 13986 VKF (CH)
Tolerances	Length, Width for 2.80 x 2.07 m, 4.10 x 2.07 m, 5.60 x 2.07 m ±5.0 mm Edge straightness L, B 1.5 mm/m   Squareness 2.0 mm/m Density (Deviation from average within board) ±7%							EN 622-1	
Ecological characteristics	Renewable energy > 90%   Wood 80-85%   UF-Resin 12-15%   Swiss wood   softwood from local sources, sawmill residues   no post-consumer recycled content   no chlorides, no biocides   thermally recyclable							SIA 493	

- Processing can give rise to saw- and grinding dust. Do not breathe in this wood dust (protective equipment and suction)! Suction equipment should always be used to remove wood dust. The risk of explosion is therefore minimised. Store unprocessed boards horizontally in a dry environment!
- The product is not on the list of hazardous substances, nor is it subject to precise labelling requirements (Dangerous Substances Ordinance / Waste Traffic Ordinance).
- The product is chemically stable and has no toxic effects. It is suitable for indoor applications.
- SWISSMDF is a product from sustainable forest management. The wood used comes from forest thinnings, and so helps to keep Swiss forests healthy.
- The product can be recycled after the first lifecycle or converted into CO<sub>2</sub> free energy in a suitable plant.