

KAINDL MDF E1 / CA

Technical Data Sheet

MDFE1 04/07-05

Areas of use / Application

Numerous applications for non load-bearing purposes in dry areas for interior decoration
(Classification acc. to **EN 622-5 MDF**)

Construction



Size

length: 2800 and 5600 mm
thickness: 8 to 45 mm
width: 2070 mm

Further sizes on demand.

Properties

	unit	classification acc. to EN 622-5 MDF					test method
		thickness range <mm>					
		>6 - 9	>9 - 12	>12 - 19	>19 - 30	>30 - 45	
density:	kg/m ³	≥ 700kg /m ³ *					
bending strength:	N/mm ²	23	22	20	18	17	EN 310
bending elasticity module:	N/mm ²	2700	2500	2200	2100	1900	EN 310
cross tensile strength:	N/mm ²	0,65	0,60	0,55	0,55	0,5	EN 319
expansion thickness 24h:	%	17	15	12	10	8	EN 317
formaldehyde release:		E1					EN 16516 ¹⁾
		Requirements fulfilled					CARB / EPA TSCA Title ²⁾
pentachlorophenol:		< 0,5 ppm					ChemVerbotsVO
board moisture content at despatch:		4 - 11 %					EN 322
bonding:		free of chloride					
wood species:		mainly conifers					
manufacturing process:		System ContiRoll					

¹⁾ Determination according to German Chemikalienverbotsverordnung according to procedure published in Bundesanzeiger on 26.11.2018; Annex 1. Valid as of 1.1.2020.

²⁾ Meets testing and monitoring requirements acc. to Airborne Toxic Control Measure (ATCM) to Reduce Formaldehyde Emission from Composite Wood Products - § 93120 - 93120.12, title 17, California Code of Regulations - by the California Air Resources Board (CARB), as well as US EPA TSCA Title VI - 40 CFR Part 770 - Formaldehyde Emission Standards for Composite Wood Products.

* except >28mm

Tolerances

	unit	gen. requirements acc. to EN 622-1 MDF				test method
density limit-deviation related to minimum density within one board	%	+/-7				EN 323
thickness tolerance:	mm	thickness range <mm>				EN 324-1
		≤ 6	> 6 -19	> 19		
		+/- 0,3	+/- 0,2	+/- 0,3		
tolerance length and width:	mm/m	+/- 2				EN 324-1
	mm	+/- 5				
edge-straightness tolerance:	mm/m	≤ 1,5				EN 324-2
rectangularity tolerance:	mm/m	2				EN 324-2

Reaction to fire classification

		minimum thickness	classification acc. to EG decision (2007/348/EG)*	
			end use condition	class
KAINDL MDF E1/CA	raw density ≥ 600kg/m ³	9mm	without an air gap between the wood-based panel	D-s2, d0
		9mm	with a closed or a open air gap not more than 22mm behind the wood-based panel	D-s2, d2
		15mm	with a closed air gap behind the wood based panel	D-s2, d0
		18mm	with an open air gap behind the wood based panel	D-s2, d0
		3mm	any	E

*further information can be found in the Official Journal of the European Union and the Kaindl Info Sheet No. 9

Storage tips

Kaindl MDF E1/CA should always be stored flat and level.

The air temperature in storage room should be at 18-22°C, the relative air humidity at 50 to 60%.

See also Standard prCEN/TS 12872:2006

Further Processing

Kaindl MDF E1/CA boards can be processed by common wood working machines.

Kaindl MDF E1/CA boards should always be calibrated before coating the surface.

In every case a colour or reference sample has to be made before a further surface treatment to avoid any surface mistakes.

Kaindl MDF E1/CA boards are not planned for 3D processing (depth milling, etc.). For lacquering instructions, see Kaindl Info Sheet No. 10.

If you have any further questions please connect your salesperson or see www.kaindl.com

The recommendations and information given in this Product Sheet are to the best of our knowledge in keeping with the present state of the art.

However, they are intended purely for information purposes and as noncommittal guide-lines. As such they cannot constitute grounds for any claim under warranty.