

Technical datasheet

EGGER PerfectSense® Lacquered MDF

Material description:

Decorative, UV coated wood-based material

based on EGGER Raw MDF – board type according EN 622

Use: Decorative wood-based panels for interior uses



EGGER Raw MDF - board type 5 according to EN 622

For PerfectSense® Lacquered MDF our EGGER Raw MDF E1E05 TSCA ST core boards in accordance with EN 622 are used as standard. Information on the mechanical properties and formaldehyde emissions is directly related to the core material used and the panel thickness. For detailed information, please refer to the respective technical data sheets of the core materials, available at www.egger.com.

General tolerances

	Test standard	Thickness range*1)			Unit
		≥3/8" to 1/2"	>1/2" to 3/4"	>3/4" to 1"	
Thickness					
Single-sided PerfectSense	EN 14323	±0.012	±0.012	±0.012	in
Lenght and Width					
Commercial available size	EN 14323	±0.196	±0.196	±0.196	in
Cut-to-size boards	EN 14323	±0.098	±0.098	±0.098	in
Flatness					
	EN 14323	--	≤0.08*2)	≤0.08*2)	in/yd
Edge damage					
Commercial available size	EN 14323	≤3/8	≤3/8	≤3/8	in
Cut-to-size boards	EN 14323	≤1/8	≤1/8	≤1/8	in

Surface properties

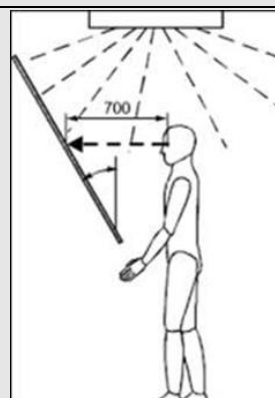
	Test standard	Class	Value	Unit
Scratch resistance				
	EN 438-2	≥ Grade 3	≥4*3)	N
Micro scratch resistance				
PG	DIN CEN/TS 16611	A	1	-
PG	DIN CEN/TS 16611	B	3	-
PM	DIN CEN/TS 16611	B	4	-
Chemical resistance				
	DIN 68861-1 / DIN EN 12720	1A	-	-
Cross-cut				
	DIN EN ISO 2409	0 - 1	-	-

Gloss level				
PG	EN ISO 2813	60°	92 ±5	-
PM	EN ISO 2813	60°	3 ±2	-
Steam resistance				
PG	EN 438-2	≥ Grade 3	-	-
PM	EN 438-2	≥ Grade 5	-	-
Resistance to dry heat				
	EN 438-2	≥ Grade 4 ^{*4)}	320	°F
Resistance to wet heat				
	EN 438-2	≥ Grade 4 ^{*4)}	212	°F
Light fastness				
	EN 438-2	Grey scale 4		
Wet climate resistance ^{*5)}				
Climate 104 ±35°F; relative humidity 85 ±5%; duration 14 days	AMK-MB-005, module 2	No gap forming or edge breaking		
Alternating climate resistance ^{*5)}				
10 cycles: 1h Climate -4 ±35°F; 3h Climate 68 ±35°F / humidity 85 ±5%; 3h Climate 140 ±35°F / humidity 55 ±5%	AMK-MB-005, module 3	No surface cracking, no discoloration, no gap forming or edge breaking		
Surface defects acc. to AMK-MB- 009				

On an even surface, defects must not appear at a distance of 27.5 inches. Where surfaces without any defects cannot be realized, small flaws and irregularities in the surface are admissible. Surface defects are only those defects, which are greater than 0.00155 square inches and recognized when examining the surface at a distance of 27.5 inches and an angle of view of about 30°. The defined maximum is 1 defect/1.196 square yards.

The following framework conditions apply:

- Viewing distance: 27.5"
- Lighting intensity: 1000 – 2000 lx
- Inclination angle: 30° to the vertical
- Type of light (daylight, color temperature) D 65: 6500 K
- Viewing duration: max. 20 seconds



^{*1)} relative to the total thickness

^{*2)} only with balanced construction of surfaces

^{*3)} with ≥ 90 % continuous and clearly visible double circles as scratch marks in N

^{*4)} with gloss surfaces slight gloss changes are permitted (≥ grade 3)

^{*5)} refers to the component test with matching EGGER edge band (PU-glued)

General notes

Careful inspection of incoming goods is an essential part of proper order processing and is included in the EGGER Group's payment and delivery terms. EGGER recommends that this inspection is carried out using general statistical processes. PerfectSense lacquered boards must be transported and stored with care. It is expedient to store the boards lying down on a flat, level and dry ground, with a cover board in a closed building. The max. stacking height is 59" (4 packages). The room climate should correspond to a temperature range of 50°F to 122°F and a relative humidity of 65%. In case of deviating conditions, it is recommended to pack the products separately to ensure stable quality. Before installation, it is recommended to condition the product to the expected climate of use. For further information, please visit www.egger.com.

Note: PerfectSense lacquered boards protective film must be removed immediately after processing, but no later than 5 months after delivery to ensure residue-free removal of the film. Foiled products shall not be exposed to direct sunlight (UV radiation).

Colour matching and surface texture

Slight colour deviations in the same product are possible due to tolerances in the primary materials used. Components that are used next to each other should therefore be checked for colour uniformity. A deviation in colour and surface between the EGGER colour reference and the customer's test piece is permissible in accordance with EN 438.

Due to the production that differs by product, colour and surface differences can also occur between different products (e.g. faced board, laminate, edging) with the same decor-texture combination. For an accurate representation of the colour, order a sample in the relevant product.

Resistance against heat

The resistance against heat of PerfectSense lacquered boards differs between long and short periods of heat exposure. For long and continuous periods of heat exposure, a maximum temperature of 122°F is applicable. We kindly advise that continuous exposure in temperatures of over 122°F may result in surface defects such as cracks.

Installations of technical equipment that emit heat, for instance laptops, require an appropriate distance between heat source and melamine surface to avoid heat accumulation and allow air and temperature circulation.

Further documents

Technical datasheet EGGER Raw MDF E1E05 TSCA ST

Processing instructions EGGER PerfectSense® Lacquered Boards

Cleaning and care instructions EGGER PerfectSense® Lacquered Boards

Provisional note:

This technical datasheet has been carefully drawn up to the best of our knowledge. We accept no liability for any mistakes, errors in standards, or printing errors. In addition, technical modifications may result from the continuous development of EGGER PerfectSense® Lacquered Boards, as well as from changes to standards and public law documents. The contents of this technical datasheet should therefore not be considered as instructions for use or as legally binding. Our General Terms and Conditions apply.