

TECHNICAL DATA SHEET

EGGER Eurodekor JP F0,3(F****)/GB E_{NF} MR

Recipe: 146

Application: Egger Eurodekor materials are Melamine faced wood based materials for interior applications such as interior decoration and furniture based on Japanese Standard JIS 5908, Chinese Standard GB/T 4897 & GB/T 15102 as well as European Standard EN 14322.



Mechanical raw board properties according to JIS 5908 & GB/T 4897:

Percentile value ¹	Unit	Value	
		>8 - <15	≥15 - 25
Thickness range	[mm]	>8 - <15	≥15 - 25
Density	[kg/m ³]	700 (-50/+100)	
Internal bond strength	[N/mm ²]	≥0,4	
Bending strength	[N/mm ²]	≥13,0	
Surface soundness	[N/mm ²]	≥1,0	
Swelling in thickness 24h	[%]	≤12	
Moisture content ²	[%]	4-10	

*1) Percentile value: The requirements above table shall be met by 5 percentile values (95 percentile values in the case of thickness swelling) based on the mean values for individual boards

*2) Moisture content: On delivery

Surface properties according to EN14322, JIS 5908 & GB/T 15102 for all Eurodekor products

Surface properties	Test method	Unit	Value	
Surface defects	EN 14323	[mm ² /m ²]	≤2	
			EN 14323	[mm/m ²]
2h water absorption and thickness swelling	GB/T 4897	[%]	≤8.0	
Screw holding capability	GB/T 15102	[N]	≥900	
			≥600	
Screw holding strength	JIS 5908	[N]	thickness >8 to <15 mm	N/A
Formaldehyde content	JIS A 5908 ^{*3}	[class]	thickness ≥15 to 25 mm	≥400
Formaldehyde content	GB/T 39600 ^{*4}	[Grade]	F**** (0,3 mg/L)	
Resistance to scratching	EN 14323	[N]	E _{NF} (0,025 mg/m ³)	
Resistance to staining	EN 14323	[level]	≥1,5 ^{*5}	
Resistance to staining	EN 14323	[level]	≥3	
Resistance to cracking	EN 14323	[level]	≥3	
Resistance to abrasion	EN 14323	[Revolutions]	Class	IP
			1 (print decor incl. pearlescent)	<50

Surface properties	Test method	Unit	Value	
Depending in the layer configuration different classes are reached			2	≥50
			3A (print decors with overlay & Eurodekor Plus HR; solid decors <120 g/m ²)	≥150
			3B (solid decors ≥120 g/m ²)	≥250
			4	≥350
Antibacterial property	ISO 22196	[level]	certified antibacterial property	
Light fastness (Xenon arc)	EN 438-2	[level]	≥4 grey scale	

*3) Formaldehyde content: EGGER Eurodekor JP F0,3 (F****)/GP E_{NF} MR achieves the formaldehyde class F**** according to the Japanese standard JIS A 5908:2015 The limit value is 0,3 mg/L according to Japanese test method JIS A 1460 (Desiccator).

*4) Formaldehyde content: EGGER Eurodekor JP F0,3 (F****)/GP E_{NF} MR achieves the formaldehyde Grade E_{NF} according to the Chinese standard GP/T 39600. The limit value is 0,025 mg/m³ according to Chinese test method GP/T 39600 (Chamber test).

*5) Scratch resistance: Not including decors with pearlescent effect

Dimensional properties according to EN14322 for all Eurodekor products

	Test method	Unit	Thickness range		
			<15mm	15 up to 20mm	>20 mm
Thickness					
• Standard boards	EN 14323	[mm]	±0,3 for Class 1 & 2 +0,5/-0,3 for Class 3A, 3B and 4		±0,5
• Boards with multi-layer surface (Plus & Flammex) total thickness ⁶⁾	EN 14323	[mm]	±0,5		±0,5
Length and width					
• commercial available size	EN 14323	[mm]	±5	±5	±5
• pre-cut panels	EN 14323	[mm]	±2,5	±2,5	±2,5
Flatness	EN 14323	[mm/m]	--	≤2 ⁷⁾	≤2 ⁷⁾
Edge damage					
• commercial available size	EN 14323 EN 14323	[mm] [mm]	≤10	≤10	≤10
• pre-cut panels			≤3	≤3	≤3

*6) Tolerances total thickness: The total thickness is defined as the substrate thickness including the coatings on both sides of the boards.

*7) Flatness: Valid for equally balanced weight of decorative papers on both sides.

Fire behaviour

	Core board/Substrate	Single layer & Multi-layer		Classification acc. to EN13986
Eurodekor chipboard Eurodekor Plus chipboard	Eurospan chipboard (density ≥ 600 kg/m ³)	X		D-s2, d0 (≥9mm) ⁸⁾
	Core board/Substrate	Single layer	Multi-layer	Classification acc. to EN13501-1
Eurodekor Flammex	Eurospan chipboard JP F0,3(F****)/GB E _{NF} MR		X	B-s2,d0 (12-38mm)

*8) Without air gap behind the wood-based material.

Eurodekor Plus – properties^{*9)}

	Standard	Unit	Eurodekor Plus ML/MW06
Thickness of surface coating	EN 14322	[mm]	~0,60
Modulus of elasticity	EN 310	[N/mm ²]	≥3500
Impact resistance – small ball test	EN 438-2	[N]	≥20
Impact resistance – big ball test	EN 438-2	[mm]	≥800

*9) Eurodekor Plus: tested with 19 mm thick EN312-P2 particleboard core board.

Eurodekor – thickness information (example 19 mm)

	Eurodekor	Eurodekor Feelwood ML03	Eurodekor Flammex FR03	Eurodekor Plus ML/MW06
Nominal total thickness	19,0 mm	19,0 mm	19,0 mm	19,0 mm
Actual total thickness	19,0 mm	19,6 mm	19,6 mm	20,2 mm

Eurodekor Plus & Flammex product range

Board type	Applications	Advantages
Eurodekor Plus HR	Furniture elements and fittings with increased abrasion resistance (desks, special work surfaces) HR = multilayer structure with transparent overlay paper <u>Not available for pearlescent, Uni and White decors^{*10)}</u>	High abrasion resistance
Eurodekor Plus ML/MW	Furniture elements and fittings with increased surface requirements (fronts, doors) ML = multilayer structure with brown barrier paper MW = multilayer structure with white barrier paper => <u>only available for White decors.</u>	High impact resistance and flexural strength, very good surface stability
Eurodekor Flammex FR03	Furniture elements and fittings with increased fire retardancy (wall or ceiling cover) FR03 = multilayer structure with special fire retardant underlay on both sides. The final thickness of all coated Flammex panels increases by 0,6 mm. <u>Not available with overlay or additional ML/MW underlay.</u>	Fire retardant effect

*10) Exceptions only after technical feasibility check and approval from the respective production plant.

Colour matching and surface texture

Since slight variations in colour will occur due to inherent variation in the surfacing papers and the substrate, we recommend that components which are used side by side should be selected from the same production batch to ensure colour compatibility.

A slight deviation of colour and surface finish according to Class 4 acc. to EN14323 between the EGGER reference sample and the test specimen is permitted. For pearlescent and metallic decors, a deviation of Class 3 acc. to EN14323 is permitted.

Resistance against heat

The resistance against heat of Eurodekor materials differs between long and short periods of heat exposure. For long and continuous periods of heat exposure, a maximum temperature of 50°C (122°F) is applicable. We kindly advise that continuous exposure in temperatures of over 50°C (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.

Antibacterial property

The hygienically sealed and closed surface of this product is 99.9% germ and bacteria free 24 hours after being cleaned and sanitized. The product does not contain a known substance that is intended to prevent, destroy, repel or mitigate a pest, and our product is not a device that is intended to trap, destroy, repel or mitigate pests.

General information

Careful checks of incoming materials is an essential part of any commercial transaction. EGGER recommends proceeding with these checks according to common statistical methods. Handling and storage of Eurodekor melamine faced boards has to be done with care. The boards should advisably be stored on a flat and dry base in a closed building. The panels must be stored in a frost-protected surrounding, preferred within temperature of 20°C (68°F) and 65% relative humidity. For storage in divergent conditions, we recommend additional packaging of the materials such as shrink-wrapping to ensure stable quality. We recommend conditioning the final products according to the expected in-room climate prior to installation. For further information, please visit www.egger.com.

Provisional note:

This technical data sheet has been carefully drawn up to the best of our knowledge. It is intended for information only and does not constitute a guarantee in terms of product properties or its suitability for specific applications. It is based on practical experiences, our own tests and correspond to our present state of 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 Eurodekor, as well as from changes to standards and public law documents. Therefore, the content of these processing instructions cannot serve as instructions for use nor as a legally binding basis.