

MFC_Melamine-Faced Chipboard

Panels coated with melamine-impregnated decorative papers for interior applications

Reference Standard	Title	Date of Issue
EN 312	Particleboards — Specifications	Current Edition
EN 14322	Wood-based panels — Melamine faced boards for interior uses — Definition, requirements and classification	Current Edition
EN 14323	Wood-based panels — Melamine faced boards for interior uses — Test methods	Current Edition
EN 13986	Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking	Current Edition

General Requirements and Technical Characteristics	Technical Requirements						
	Test Method	UoM	>6 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Density	EN 323	[Kg / m³]	750 ±5%	710 ±5%	690 ±5%	680 ±5%	660 ±5%
Nominal Thickness	EN 14323	[mm]	Thickness ≤20mm: +0,5 / -0,3 Thickness >20mm: ±0,5 Th _{max} - Th _{min} ≤ 0,6				
Length and Width (commercially available sizes)	EN 14323	[mm]	± 5				
Flatness	EN 14323	[mm/m]	For thicknesses <15 mm: n.a. For thicknesses ≥15 mm: ≤ 2 (balanced surfaces only)				
Edge Damage	EN 14323	[mm]	≤ 10mm				
Surface Defects (spots)	EN 14323	[mm²/m²]	≤ 2				
Surface Defects (lines)	EN 14323	[mm/m²]	≤ 20				
Scratch Resistance	EN 14323	[N]	≥ 1,5				
Resistance to Cold Liquids (staining)	EN 14323	[classe]	≥ 3				
Resistance to Cracking	EN 14323	[classe]	≥ 3				
Reaction to Fire Performance Class*	EN 13986	[class]	D-s2,d0				

The values indicated are based on internal laboratory tests and should be understood as the average value of the data obtained on a full-size panel.

For thicknesses >10 mm. Classification without further testing (CWFT), as specified in Table 8, provided that the panel meets the characteristics and end-use conditions indicated therein — EN 13986

Variations in temperature and relative humidity, both during storage and on construction sites, may lead to permanent warping or twisting of the panels, as indicated in EN 14322 (§4, Table 2)

Formaldehyde			
Reference Standard	Test Method	UoM	Limit
Compliant with REACH Regulation (EU) 2023/1464	EN 717-1	mg/m ³	0,062 mg/m ³
		ppm	< 0,05 ppm
Class E1 according to EN 13986 and Italian Ministerial Decree dated 10/10/2008	EN ISO 12460-3	mg/m ² h	< 3.5mg HCHO/m ² h
Raw particleboard compliant with CARB Phase II and U.S. EPA TSCA Title VI – 40 CFR §770	ASTM 1333	ppm	< 0.09 ppm

Available on request in the following usage classes: P2+ (V70); P3

Certifications and Declarations of Conformity		
FSC® Mix	Certificate N° ICILA-COC-004011	CSI S.p.A.
PEFC	Certificate N° ICILA-PEFC-COC-004538	CSI S.p.A.
ISO 14001	Certificate N° EMS-8928/S	RINA S.p.A.
CE Marking	UNI EN 13986 – AVCP System 4	Non-structural use in dry conditions
CPR Regulation	Regulation (EU) No. 305/2011	DoP available upon request
ReMade in Italy®	Certificate N° 73327 del 03/04/2026 CLASS A+	Certiquality S.r.l.
CAM Arredi	Certificate N° 25/2024	COSMOB S.p.A.

Recovered Wood Management

The RCB panel is crafted exclusively from 100% post-consumer recycled wood. Every stage of sourcing, selection, and material qualification is performed in accordance with the UNI 11951 standard, which sets stringent requirements for acceptance criteria, inspections, sampling protocols, and non-conformity handling across recovery streams. This rigorous framework ensures complete material traceability and delivers the superior and consistent quality expected of a premium-grade panel.

Guidelines for the Proper Handling of Panels

Storage, Handling and Processing

Panels must be stored in enclosed, dry and ventilated areas, at a stable temperature (≥ 10 °C) and relative humidity of 50–60%. Avoid direct sunlight and prolonged vertical storage. Stack the bundles on flat, level surfaces with aligned battens, ensuring protection of the decorative faces.

During handling, lift the panels without dragging them and protect them from moisture; avoid contact with metal objects, abrasive dust and shocks during transport and movement. Before processing, keep production lines free from dust and residues, and check the efficiency of the suction/extraction systems. Avoid using conveyors and chain transfer systems that may scratch the surfaces. Use appropriate tools suitable for melamine-faced panels.

Cleaning and Maintenance

For routine cleaning, use water and neutral detergents with soft cloths. For persistent stains, use diluted ethyl alcohol or acetone, avoiding abrasive products, bleach, and aggressive chemicals.