



Amorini

JOINERY COMPONENTS

MDF

Technical Specification — Essence Range and Orleans Range

Document Ref	Panel Thickness	Issue Date
MDF-TS-01	18 mm	18 August 2026

This specification covers the 18 mm medium density fibreboard (MDF) substrate used across Amorini's Essence Range (Sarsen, Oscuro decors) and Orleans Range (Light Oak, Mountain Walnut, Harvest Oak, Columbian Walnut, Natural Black decors). Content is drawn from the manufacturer's quality standard, reformatted for Amorini use and scoped to the panel thickness Amorini actually supplies.

SECTION 1: DIMENSION TOLERANCE

Property	Requirement
Thickness Tolerance	± 0.20 mm
Size Tolerance (Length/Width)	± 5 mm for free-trim panel / ± 2 mm for net-size panel
Squareness (Diagonal)	< 5.0 mm

Test methods: BSEN 32x series, European harmonised fibreboard testing standards.

SECTION 2: FORMALDEHYDE EMISSION

Standard	Test Method	Units	Specification
EN 13986	ISO 12460-5	mg/100g @O.D	E0 $\leq$ 3.0 E1 $\leq$ 8.0 E2 $\leq$ 30
JIS A 5905	JIS A 1460	mg/l	F**: Mean $\leq$ 1.5, Max $\leq$ 2.1 F***: Mean $\leq$ 0.5, Max $\leq$ 0.7 F****: Mean $\leq$ 0.3, Max $\leq$ 0.4



Standard	Test Method	Units	Specification
CARB Phase 2 / EPA TSCA Title VI	ASTM D6007	ppm	Thin board ($\leq 8\text{mm}$): ≤ 0.13 Thick board ($> 8\text{mm}$): ≤ 0.11

SECTION 3: MAIN SURFACE QUALITY STANDARD

Number of latex spots: not more than 3 dots with a diameter greater than 3 mm, per square metre.

SECTION 4: PHYSICAL & MECHANICAL PROPERTIES — 18 MM PANEL

Values below are the manufacturer's declared specification for the 18 mm thickness band ($>15.0\text{--}19.0$ mm range in the manufacturer's full table). These are supplier-declared figures and have not been independently tested by a third-party laboratory — see the note at the end of this document.

Property	Unit	MDF Standard, Latex-Free (MBR/MLF)	MDF (MBR, S)	Pine MDF (MPN)	MDF Moisture Resistant (MR)
Average Density	Kg/m ³	700 $\pm$ 20	640 $\pm$ 20	700 $\pm$ 20	700 $\pm$ 20
Board Moisture Content	%	5.0–8.0	5.0–8.0	5.0–8.0	5.0–8.0
Internal Bond, IB-dry Average	N/mm ²	0.60	0.45	0.60	0.75
Modulus of Rupture (MOR)	N/mm ²	20	18	25	24
Modulus of Elasticity (MOE)	N/mm ²	2200	2200	2700	2400
Screw Holding — Surface	N	850	—	1050	1050
Screw Holding — Edge	N	850	—	850	850
Thickness Swelling, 24h	%	≤ 12	≤ 13	≤ 12	≤ 8
Surface Absorption (Toluene test)	mm/min	Premium ≥ 150 / Utility ≥ 80	—	Premium ≥ 150 / Utility ≥ 80	Premium ≥ 150 / Utility ≥ 80

SECTION 5: MANUFACTURER & DISTRIBUTOR

Manufacturer	VRG Dongwha MDF Joint Stock Company Lot G, Minh Hung III Industrial Park, Minh Hung Ward, Chon Thanh Town, Bình Phước Province, Viet Nam Tel: +84 271 364 5500
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Figures in Section 4 are the manufacturer's declared specification for this product, drawn from their quality standard documentation. Unlike Amorini's Moco Board range, these figures have not been confirmed by an independent third-party laboratory test. Amorini should treat this data as indicative of manufacturer-guaranteed minimums rather than independently verified performance, and may wish to commission third-party testing if a verified performance claim is required.