TECHNICAL SPECIFICATION AC5 LAMINATE FLOORING

TECHNICAL CHARACTERISTICS

IDENTIFICATION AND CLASSIFICATION	NORM	SYMBOL	SPECIFICATION
Core board type	-		High-density fibreboard HDF ≥ 900 kg / m3
Usage Class	UNE-EN 13329:2023		CLASS 33 HEAVY COMMERCIAL USE CLASS 23 HEAVY DOMESTIC USE
DIMENSIONAL CHARACTERISTICS	**NORM**	**SYMBOL**	**SPECIFICATION**
Thickness tolerance, Δt:	UNE-EN 13329:2023		Δt_{medio} ≤ 0,50 mm from nominal value $t_{máx}$ - $t_{mín}$ ≤ 0,50 mm
Length tolerance, Δl: Decorative face external dimensions	UNE-EN 13329:2023		For length ≤ 1500 mm: Δl ≤ 0,5 mm
Width tolerance, Δw: Decorative face external dimensions	UNE-EN 13329:2023		Δw_{medio} ≤ 0,10 mm from nominal value $w_{máx}$ - $w_{mín}$ ≤ 0,20 mm
Squareness of face, *q*:	UNE-EN 13329:2023		$q_{máx}$ ≤ 0,20 mm
Straightness of face, s: Lateral curvature	UNE-EN 17539:2022		$s_{máx}$ ≤ 0,30 mm/m
Flatness of element, f: - Transverse, f_T - Longitudinal, f_L	UNE-EN 17539:2022		Maximum individual values: f_T concave ≤ 0,15 % / f_T convex ≤ 0,20 % f_L concave ≤ 0,50 % / f_L convex ≤ 1 %
Joints between elements, o: Openings between pieces	UNE-EN 17539:2022		o_{medio} ≤ 0,15 mm $o_{máx}$ ≤ 0,20 mm
Height difference between elements, h: Lipping between pieces	UNE-EN 17539:2022		h_{medio} ≤ 0,10 mm $h_{máx}$ ≤ 0,15 mm
Dimensional changes after changes in relative humidity, *δl*, *δw*	UNE-EN 13329:2023		δl_{medio} ≤ 0,9 mm $\delta w_{máx}$ ≤ 0,9 mm
SURFACE AND MECHANICAL RESISTANCE	**NORM**	**SYMBOL**	**SPECIFICATION**
Light fastness	UNE-EN 20105-A02:1998		Contrast between exposed and unexposed areas: **Grey Scale Grade 4**
Surface soundness (overlay adhesion**)**	UNE-EN 13329:2023		≥ 1,25 N/mm²
Abrasion resistance (initial point)	UNE-EN 13329:2023		AC5 (≥ 6000 Cycles)
Impact resistance	UNE-EN 13329:2023		No visible damage Small ball ≥ 70 mm Large ball ≥ 750 mm
Static indentation resistance	UNE-EN 13329:2023 UNE-EN ISO24343-1:2012		Static indentation resistance in accordance with the standard. No visible damage.
Stain resistance	UNE-EN 438-2:2016+A1:2019		Groups 1-2 ≥ 5 Groups 3 ≥ 4
Micro-scratch resistance	UNE-EN 16094:2021		Method A: MSR-A2 Method B: MSR-B1
Joint system tensile strength (opening 0.2 mm)	UNE-EN 13329:2023		F ≥ 1 kN / m (Longitudinal) F ≥ 2 kN / m (Transverse)
Resistance to chair castors	UNE-EN 13329:2023		No visible damage when using castors defined in EN 12529 (Type W) after ≥ 20,000 cycles.
Furniture leg resistance	UNE-EN 13329:2023		Furniture leg resistance in accordance with the standard. No visible damage.

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MOISTURE PERFORMANCE	NORM	SYMBOL	SPECIFICATION
Thickness swelling	UNE-EN 13329:2023		≤ 10 %
24-hour surface water resistance	UNE-EN ISO4760:2022		Accordance * *Excludes the 4V bevel

SAFETY PERFORMANCE

CE MARKING ACCORDING TO UNE-EN 14041:2018	NORM	SYMBOL	SPECIFICATION
Reaction to fire	UNE-EN 13501-1:2019		Classification Bfl-s1
Content of hazardous substances	UNE-EN 14041:2018		Compliant; not intentionally added.
Formaldehyde emission	UNE-EN 717-1		Class E0,5
Slip resistance	UNE-EN 13893:2003 UNE-EN 14041:2018 CTE		Class DS (μ ≥ 0.30) Class 1
Electrical behaviour (antistatic properties)	UNE-EN 1815:2017		Antistatic ≤ 2kV
Thermal resistance / Thermal conductivity	UNE-EN 12664:2002 UNE-EN 12667:2002		R = 0,07 m^2 ·K / W C = 0,11 W / m · K

OTHER CHARACTERISTICS

CHARACTERISTIC	NORM	SYMBOL	SPECIFICATION
Environmental certification	PEFC ST 2002:2020		Certified: **AEN-PEFC-COC-0332**
Compatibility with underfloor heating (water-based) Temperature (minimum–maximum)	UNE-EN 1264-1:2022		Compatible with a suitable base for use. 15–28°C
Product appearance	UNE-EN 438-2:2016		No visible defects from a distance of **1.5 m**.
Moisture content at factory dispatch	UNE-EN 322:1994		Moisture content range: **4–7%**
Bacterial growth support	ASTM G-22		Does not support bacterial growth.

FINAL DECLARATION

The stated performance figures have been determined in accordance with the specified standards.
For installation and maintenance conditions, please refer to the manufacturer's current technical instructions.
The information contained in this technical data sheet may be amended or updated as a result of product improvements.