






ETUDE 22

TECHNICAL DATA SHEET : LVT MULTILAYER FLOORING

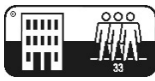










Extruded vinyl core	4 mm EPC technology (expanded polymer core)	
Top layer	2 mm LVT (wear layer : 0,55 mm)	
Pre attached underlayment	2 mm IXPE treated with Ultra-Fresh ¹	
	8 mm	
Class of use	Commercial & Residential	
size	220 mm x 1510mm	Maderas
	812,8 mm x 406,4 mm	Piedras y Cerámicas
bevels	Micro bevels	
Finishing of top layer	Urethane with Enhanced Ceramic Bead (ECB) & Ultra-Fresh	
weight / m2	7.88 kg/m ²	
Limited warranty	10 years commercial 15 years residential	

EU STANDARDS FOR CE MARK

DESCRIPTION	STANDAR	SYMBOL	PASSED REQUIREMENTS
CE mark	EN 14041		Refer to Standards Below
Reaction to fire	EN 13501-1 EN ISO 9239-1 EN ISO 11925-2		B_{fl} - S₁ Critical flux: ≥8.0 kW/m ² Flame spread: ≤150mm within 20s Smoke density as % x min: ≤750
PCP content	EN 14041		< 5ppm
Formaldehyde emission	EN 717-1		Class E1: ≤ 0.124mg/m ³
Slip resistance (dry)	EN 13893		Class DS: CoF ≥ 0.30




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PERFORMANCES UNDER EN 16511

DESCRIPTION	STANDAR	SYMBOL	PASSED REQUIREMENTS
Classification (Level of Use)	EN 16511 EN ISO 10874		Commercial Heavy / Classe 33
Wear Resistance IP Method A	EN 13329 Annex E		$\geq 2,000$ cycles
Impact Resistance (Big Ball)	EN 13329+A1, Annex F		≥ 1600 mm
Micro-Scratch Resistance [Class]	EN 16094, Method B	N/A	\leq MSR-B2
Castor Chair Resistance	EN 425		After 25,000 cycles: No Disturbance to the Surface; No Delamination, Cracks, or Disruptions
Residual Indentation	EN ISO 24343-1		≤ 0.2 mm
Resistance to Staining [Grade, per Group]	EN 438-2 (Group 1 -10 Minutes)		Groups 1 and 2: Grade 5 Group 3: Grade 4
Locking Strength	ISO 24334		Long side $\geq 2,5$ kN/m Short side $\geq 3,0$ kN/m
Dimensional Stability Due to Variation of Temperature	EN ISO 23999 (70°C)		≤ 0.05 %
Thickness (t)	ISO 24337		$\Delta t_{avg} \leq 0.50$ mm $t_{max} - t_{min} \leq 0.50$ mm
Length (l)	ISO 24337		$\Delta l \leq 0.3$ mm/m
Width (w)	ISO 24337		$\Delta w_{avg} \leq 0.10$ mm $w_{max} - w_{min} \leq 0.20$ mm
Squareness (q)			$q_{max} \leq 0.20$ mm
Straightness (s)			$s_{max} \leq 0.30$ mm/m
Flatness (f)	ISO 24337	N/A	$f_{w,concave} \leq 0.15\%$, $f_{w,convex} \leq 0.20\%$ $f_{l,concave} \leq 0.50\%$, $f_{l,convex} \leq 1.00\%$
Openings (o)			$O_{avg} \leq 0.15$ mm, $O_{max} \leq 0.20$ mm
Height Difference (h)	ISO 24337	N/A	$H_{avg} \leq 0.10$ mm $H_{max} \leq 0.15$ mm

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AUXILIARY PERFORMANCE

DESCRIPTION	STANDAR	SYMBOL	PASSED REQUIREMENT
Slip Resistance (Wet)	DIN 51130	N/A	Grade R10: $\geq 10^\circ$ y $< 19^\circ$
Slip Resistance (Australia / New Zealand)	AS/NZS 4586	N/A	Wet Pendulum (Slider 96) P4: 45-54 SRV Oil-Wet Inclining Platform Grade R10: $\geq 10^\circ$ and $< 19^\circ$
Cooling Phase - Shrinkage (23°C to 5°C)	N/A	N/A	Dimensional Stability: $\leq 0.03\%$ Curling: $\leq 0.3\text{mm}$
Heating Phase - Expansion (23°C to 40°C)	N/A	N/A	Dimensional Stability: $\leq 0.03\%$ Curling: $\leq 0.3\text{mm}$
Thermal Resistance	EN 12664		0.08800 m ² K/W at 10°C
Static Electrical Propensity	EN 1815, Method A		< 2 kV antistatic floor
Sound Reduction ₁	EN ISO 10140-3 ISO 717-2 EN ISO 140-8		$\Delta L_w = 18\text{dB}$

Sound Reduction (EN ISO 10140-3, ISO 717-2, EN ISO 140-8): ΔL_w = Weighted Reduction of Impact Sound Pressure Level
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