












Laminate flooring technical specifications

LIVING Collection

GENERAL CHARACTERISTICS

CHARACTERISTICS	NORM	SYMBOLS	REQUIREMENTS
Thickness of the element, f :	UNE EN 13329:2016		$\Delta f_{\text{medio}} \leq 0,50$ mm nominal value. $f_{\text{máx.}} - f_{\text{mín.}} \leq 0,50$ mm
Squareness of the element, q :	UNE EN 13329:2016		$q_{\text{max.}} \leq 0,20$ mm
Straightness of the surf layer, s :	UNE EN 13329:2016		$s_{\text{max.}} \leq 0,30$ mm/m
Flatness of the element, f - Width - Length	UNE EN 13329:2016		$f_w, \text{concave} \leq 0,15$ % , $f_w \text{ convex} \leq 0,20$ % $f_l \text{ concave} \leq 0,50$ % , $f_l \text{ convex} \leq 1,00$ %
Openings between elements, o : Gaps	UNE EN 13329:2016		$o_{\text{averages}} \leq 0,15$ mm $o_{\text{máx.}} \leq 0,20$ mm
Height difference between elements h :	UNE EN 13329:2016		$h_{\text{averages}} \leq 0,10$ mm $h_{\text{máx.}} \leq 0,15$ mm
Dimensional variations after changes in relative humidity, δl, δw	UNE EN 13329:2016		δl average $\leq 0,9$ mm δw máx $\leq 0,9$ mm
Light fastness	EN 20105-A02		Contrast between exposed and unexposed zone: grade 4 (gray scale).
Static indentation	UNE EN 13329:2016 EN ISO 24343-1		No visible changes. <i>Example:</i> <0.05 mm indentation using a straight steel cylinder, $\varnothing = 11,3$ mm
Surface soundness	UNE EN 13329:2016		$\geq 1,25$ N/mm ²
Abrasion resistance	EN-438-2 EN13329		AC5 (≥ 6000 Cycles)
Impact resistance	EN13329		Big ball ≥ 1000 mm Little ball ≥ 15 N.
Level of use	EN 13329		CLASS 33 HEAVY COMMERCIAL USE CLASS 23 HEAVY DOMESTIC USE
Resistance to staining	EN-438-2		Groups 1-2 ≥ 5 Group 3 ≥ 4
Locking strength for mechanically assembled panels (Opening 0,2 mm)	EN13329		$F \geq 1$ kN/ml
Effect of a furniture leg	EN424		No visible damage
Effect of a castor chair	EN425 EN 13329		No changes in appearance or damage, as defined in EN425. Using wheel defined in EN 12529 (Type W)
Thickness swelling	EN 13329		≤ 10 %
Slip coefficient	EN 12633 DB SUA-1		Class 1
Dimensions			1346,0 x 213,0 x 8 mm
PEFC			PEFC-COC-0332

zenku


BOARD CHARACTERISTICS

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Type of board (V313)			High density board (HDF) humidity resistance
Density (Kg/m ³)			900-950 Kg/m ³




ADDITIONAL REQUIREMENTS

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Humidity at dispatch from the manufacturer	EN 322		The elements shall have a moisture content of 4 -10 %
Appearance	EN 438-2		Whitout visible effects 1m of distance

CLASSIFICATION ACCORDING EMISSIONS - COV

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Emissions - COV	EN 16000 (French decree n° 2011-321 & arrêté of 19/04/2011)	 <p>* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A + (très faibles émissions) à C (fortes émissions)</p>	Classified A+ Ranking between A+ to C, the best is A+ (lowest emissions of organic compounds volatile).
Bacteria propagator	ASTM G - 22		No

CHARACTERISTICS ACCORDING TO UNE EN 14041 NORM

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Reaction to fire	EN 13501		B _{F1} s1
Formaldehyde emission	EN 717-2		E1 (< 3,5 mg/m ² h)
Antistatic charge classification	EN 1815		Antistatic < 2 KV
Content in PCP	CEN / TR 14823		< 5 ppm

SUITABLE FOR UNDERFLOOR HEATING

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Underfloor heating	EN 12667		Suitable (with appropriate underlay)