













# Laminate flooring technical specifications


## GENERAL CHARACTERISTICS

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Thickness of the element, t:	UNE EN 13329:Anexo A		8 mm
Squareness of the element, q:	UNE EN 13329:Anexo A		$q_{max.} \leq 0,2 \text{ mm}$
Straightness of the surf layer, s:	UNE EN 13329:Anexo A		$s_{max.} \leq 0,3 \text{ mm}$
Flatness of the element, f: - Width - Length	UNE EN 13329:Anexo A		Maximum individual values: $f_{T,concave} \leq 0,15 \%$ $f_{T,convex} \leq 0,20 \%$ $f_{L,concave} \leq 0,5 \%$ $f_{L,convex} \leq 1 \%$
Openings between elements, o: Gaps	UNE EN 13329:Anexo B		$o_{average} \leq 0,15 \text{ mm}$ $o_{max.} \leq 0,20 \text{ mm}$
Height difference between elements h:	UNE EN 13329:Anexo B		$h_{average} \leq 0,10 \text{ mm}$ $h_{max.} \leq 0,15 \text{ mm}$
Light fastness	EN 20105-A02 EN ISO 4892-2		Contrast between exposed and unexposed zone: grade 4 (gray scale)
Surface soundness	UNE EN 13329:Anexo D		$\geq 1,25 \text{ N/mm}^2$
Abrasion resistance	EN13329:Anexo E		<b>AC6</b> (>8500 ciclos)
Impact resistance	EN13329:Anexo H		<b>CLASS IC3</b>
Level of use	EN 13329		<b>CLASS 33 HEAVY COMMERCIAL USE</b> <b>CLASS 23 HEAVY DOMESTIC USE</b>
Resistance to staining	EN-438		Groups 1-2 $\geq 5$ Groupso 3 $\geq 5$
Locking strength for mechanically assembled panels (Opening 0,2 mm)	EN13329		$\geq 1 \text{ kN/ml}$
Effect of a furniture leg	EN424 (Pata tipo 0)		No visible damage
Effect of a castor chair	EN425		25000 cycles without damage
Thickness swelling	ISO 24336		$\leq 15 \%$
Slip coefficient	CTE / ENV 12633		Clase 1
Antibacterial	ASTM G-22		Non spread of bacteria

## CHARACTERISTICS ACCORDING TO UNE EN 14041 NORM

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Reaction to fire	EN 13501		C <sub>fl</sub> s1
Formaldehyde emission	EN 717-2		E1
Antistatic charge classification	EN 1815		Antiestático < 2 KV

## UNDERFLOOR HEATING

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Underfloor heating	EN 12667		Suitable for underfloor heating (max 28°C)

## CERTIFICATES AND APPROVALS

TIPO	ORGANIZATION	APPROVAL
Environmental certificate	PEFC	Certificate PEFC-14/35-00210

## WARRANTY

The following warranty covers products used in dry domestic interiors for 20 years and for commercial use and wet areas for 5 years.