

GRAND SELECTION ORIGIN

Laminate floor covering for heavy use in commercial applications (AC5 / 33)

Characteristics	Attractive: Based on a rustic solid wood floor, the 14mm GRAND SELECTION ORIGIN resembles the original so close that even experts hardly can tell the difference. Innovative: Looks and feels like a precious hardwood floor – unrivalled in depth and precision of how the structure meets perfectly with the decor. Healthy: Produced to strict European standards. For a healthy living, emissions are as low as you would expect from wood in its natural state. Ecological: Wood from local sources – produced at the most modern, environmental friendly production facility of its kind. Robust: Superior abrasion, scratch- & impact resistance (AC5/33), as well as colourfast (anti-fade) & anti-static properties. Waterresistant: Due to its Aquastop-HDF-core, it is more than double as resistant to water than a regular laminate floor.																
Technical classification	Laminate floor covering (EN 13329) based on High Density Fibreboard (HDF) for internal use (EN 14041) Declaration of Performance (DoP): www.swisskrono.ch/dop/ --> KCH_LFa_005																
Use	Floorcovering for indoor use <table><tr><td></td><td colspan="3">Levels of use</td></tr><tr><td></td><td>Moderate</td><td>General</td><td>Heavy</td></tr><tr><td>Domestic</td><td>  AC 1 / Cl. 21 Bed-, guestrooms </td><td>  AC 2 / Cl. 22 Living-, dining rooms </td><td>  AC 3 / Cl. 23 Kitchen, entrance halls </td></tr><tr><td>Commercial</td><td>  AC 3 / Cl. 31 Hotel rooms, small offices </td><td>  AC 4 / Cl. 32 Offices, boutiques </td><td>  AC 5 / Cl. 33 Stores, corridors </td></tr></table>		Levels of use				Moderate	General	Heavy	Domestic	 AC 1 / Cl. 21 Bed-, guestrooms	 AC 2 / Cl. 22 Living-, dining rooms	 AC 3 / Cl. 23 Kitchen, entrance halls	Commercial	 AC 3 / Cl. 31 Hotel rooms, small offices	 AC 4 / Cl. 32 Offices, boutiques	 AC 5 / Cl. 33 Stores, corridors
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Properties	 Slip resistant surface structure  Floor heating approved (H₂O)  4 sided V-groove																
Warranty and maintenance	Residential warranty: 35 years Commercial warranty: 5 years Warranty conditions : www.swisskrono.ch/en/products/flooring/your-guarantee.html Care and maintenance: www.eplf.com/en/laminate/infomaterial.html																
Certificates / Labels	 Swiss Made Swiss Quality  Quality and Environment Management  CO₂- reduced fabrication  Swiss Wood  Sustainable forest management (certificates can be provided upon request)  The Mark of responsible forestry FSC® C014686 Ask for FSC® certified products  European producers of laminate floorings																

Product range and technical specifications

Product Specifications			
Panel dimensions:	2025 x 244 x 14 mm 79.72 x 9.6 x 0.67 in		
1 Box contains:	3 Panels total 1.48 m² / 21 kg 15.96 sqft / 41.89 lbs		
Characteristics of surface	Antistatic and Antiscratch		
Technical Specifications			
General characteristics			
Level of use class	33	Heavy use in commercial applications	EN 13329
Abrasion resistance	AC 5	IP ≥ 6000 Revolutions	EN 13329
Impact resistance	≥ 15 N ≥ 1000 mm	Small steel ball Large steel ball	EN 13329
Reaction to fire	Bfl-s1	Flame-retardant, no/low smoke emission	EN 13501-1
Thickness swelling	≤ 8 %	24 hours in water bath of 20°C	EN 13329
Total Volatile Organic Compounds after 28 days	< 100 µg/m³	TVOC _{28d} limit for indoor use:< 1000 µg/m³	ISO 16000
Formaldehyde emission	≤ 0.1 ppm ≤ 0.11 ppm	E1 ≤ 0.1 ppm CARB II ≤ 0.11 ppm	EN 717-1 ASTM E 1333
Physical characteristics			
Surface soundness	≥ 1.25 N/mm²	Strength of bonding between coating material and underlying panel	EN 13329
Static electrical propensity	≤ 2 kV	No electrostatic charge in dry room conditions (22 % rel. moisture)	EN 1815
Static indentation	≤ 0.01	mm indentation using a straight steel cylinder of 11.3 mm diameter	EN 13329 EN 433
Thermal resistance	0.1 (m²K)/W	Suitable for warm water subfloor heating	EN 12667
Slip resistance	DS	Slip resistant (DS) if coefficient ≥ 0.3	EN 14041
Effect of a furniture leg	No damage	Tested with foot type 0	EN 13329 EN 424
Effect of a castor chair	No damage	25'000 cycles without any damage	EN 13329 EN 425
Resistance to staining	Level 5 Level 4	No visible change (group 1 Aceton and 2 Coffee), light change in group 3 (strong acids)	EN 13329 EN 428-2.26
Light fastness	≥ 4 ≥ 6	Blue wool scale: change of colour with method of grey scale	EN 20105-B02
Micro-scratch resistance	MSR-A2	Gloss change 10% – 30% (Martindale Test)	EN 16094
Tolerances			
Thickness of the element, <i>t</i>	14 mm	$\Delta t_{average} \leq 0.50 \text{ mm} \mid t_{max} - t_{min} \leq 0.50 \text{ mm}$	EN 13329
Length of the surface layer, <i>l</i>	2025 mm	$\Delta l \leq 0.61 \text{ mm}$	EN 13329
Width of the surface layer, <i>w</i>	244 mm	$\Delta w_{average} \leq 0.10 \text{ mm} \mid w_{max} - w_{min} \leq 0.20 \text{ mm}$	EN 13329
Squareness of the element, <i>q</i>		$q_{max} \leq 0.20 \text{ mm}$	EN 13329
Straightness of surface layer, <i>s</i>		$s_{max} \leq 0.30 \text{ mm/m}$	EN 13329
Flatness of the element, <i>f</i> Maximum single values		Width: $f_{w, concave} \leq 0.15 \text{ \%} \mid f_{w, convex} \leq 0.20 \text{ \%}$ Length: $f_{l, concave} \leq 0.50 \text{ \%} \mid f_{l, convex} \leq 1.00 \text{ \%}$	EN 13329
Openings between elements, <i>o</i>		$o_{average} \leq 0.15 \text{ mm} \mid o_{max} \leq 0.20 \text{ mm}$	EN 13329
Height diff. between element, <i>h</i>		$h_{average} \leq 0.10 \text{ mm} \mid h_{max} \leq 0.15 \text{ mm}$	EN 13329
Dimensional variations after changes in relative humidity, δ		Width: $\delta_w_{average} \leq 0.9 \text{ mm}$ Length: $\delta_l_{average} \leq 0.9 \text{ mm}$	EN 13329
Ecological characteristics			
Energy and Content Swiss Product declaration	Renewable energy > 90 % wood fibre ~80 %, Swiss wood MUF adhesive ~15 % no post-consumer recycled content no chlorides and no biocides heavy metal free coating		SIA 493.05
Disposal	Thermal / energetic recovery		