

# GRAND SELECTION ORIGIN

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

Characteristics	<p><b>Attractive:</b> 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.</p> <p><b>Innovative:</b> Looks and feels like a precious hardwood floor – unrivalled in depth and precision of how the structure meets perfectly with the decor.</p> <p><b>Healthy:</b> Produced to strict European standards. For a healthy living, emissions are as low as you would expect from wood in its natural state.</p> <p><b>Ecological:</b> Wood from local sources – produced at the most modern, environmental friendly production facility of its kind.</p> <p><b>Robust:</b> Superior abrasion, scratch- &amp; impact resistance (AC5/33), as well as colourfast (anti-fade) &amp; anti-static properties.</p> <p><b>Waterresistant:</b> Due to its Aquastop-HDF-core, it is more than double as resistant to water than a regular laminate floor.</p>																
Technical classification	<p>Laminate floor covering (EN 13329) based on High Density Fibreboard (HDF) for internal use (EN 14041)</p> <p>Declaration of Performance (DoP): <a href="http://www.swisskrono.ch/dop/">www.swisskrono.ch/dop/</a> --&gt; KCH_LFa_005</p>																
Use	<p>Floorcovering for indoor use</p> <table border="1"> <thead> <tr> <th></th> <th colspan="3">Levels of use</th> </tr> <tr> <th></th> <th>Moderate</th> <th>General</th> <th>Heavy</th> </tr> </thead> <tbody> <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> </tbody> </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	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">             Slip resistant surface structure         </div> <div style="text-align: center;">             Floor heating approved (H<sub>2</sub>O)         </div> <div style="text-align: center;">             4 sided V-groove         </div> </div>																
Warranty and maintenance	<p>Residential warranty: 35 years   Commercial warranty: 5 years</p> <p>Warranty conditions : <a href="http://www.swisskrono.ch/en/products/flooring/your-guarantee.html">www.swisskrono.ch/en/products/flooring/your-guarantee.html</a></p> <p>Care and maintenance: <a href="http://www.eplf.com/en/laminate/infomaterial.html">www.eplf.com/en/laminate/infomaterial.html</a></p>																
Certificates / Labels	<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">             Swiss Made            Swiss Quality         </div> <div style="text-align: center;">             Quality and            Environment            Management         </div> <div style="text-align: center;">             CO<sub>2</sub>-            reduced            fabrication         </div> <div style="text-align: center;">             Swiss Wood         </div> <div style="text-align: center;">             Sustainable forest management            (certificates can be provided upon request)         </div> <div style="text-align: center;">             Sustainable forest management            (certificates can be provided upon request)         </div> <div style="text-align: center;">             European producers            of laminate floorings         </div> </div>																

## 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 m <sup>2</sup> / 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	Small steel ball	EN 13329
	≥ 1000 mm	Large steel ball	
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/m <sup>3</sup>	TVOC <sub>28d</sub> limit for indoor use:< 1000 µg/m <sup>3</sup>	ISO 16000
Formaldehyde emission	≤ 0.1 ppm	E1 ≤ 0.1 ppm	EN 717-1 ASTM E 1333
	≤ 0.11 ppm	CARB II ≤ 0.11 ppm	

#### Physical characteristics

Surface soundness	≥ 1.25 N/mm <sup>2</sup>	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 (m <sup>2</sup> K)/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	No visible change (group 1 Aceton and 2 Coffee), light change in group 3 (strong acids)	EN 13329
	Level 4		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: $f_{w, concave} \leq 0.15 \% \mid f_{w, convex} \leq 0.20 \%$		EN 13329
	Length: $f_{l, concave} \leq 0.50 \% \mid f_{l, convex} \leq 1.00 \%$		
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, $\delta$	Width: $\delta_w_{average} \leq 0.9 \text{ mm}$		EN 13329
	Length: $\delta_l_{average} \leq 0.9 \text{ mm}$		

#### 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	