
























SENSOLINE

SWISSFLOOR FOR MODERATE COMMERCIAL USE (AC3/31)

Menznau, 01. Jan. 2015 | Version 1.2 (supersedes all previously published data)

Characteristics	<p>Attractive: Available in many authentic, modern colour tones from light to dark and various individual, distinguished planks.</p> <p>Healthy: Produced according to European standards. For a healthy living, emissions of vapours are the same as you would expect from wood in its natural state.</p> <p>Ecological: Wood from local sources – produced at the most modern, environmental friendly production facility of its kind.</p> <p>Robust: Abrasion resistance class AC3/31, for moderate use in commercial applications.</p> <p>Affordable: Unbeatable price/performance ratio compared to traditional hard wood floors: Easy to install, low maintenance and easy to care flooring.</p>																		
Technical classification	<p>Laminate floor covering according to EN 15468 High Density Fibreboard (HDF) Declaration of Performance (EN 14041): www.kronospan.ch/dop/</p>		 KCH_LF_002																
Use	<p>Floor-Covering inside buildings</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></td> <td></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		
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Properties	 Slip resistant surface	 Floor heating approved	 4-sided V-Groove (optional)	 Noise reduction (optional)															
Certification	 Swiss Made Swiss Quality	 Quality and Environment Management	 Member of European Pro- ducers of Laminate Flooring	 CO ₂ -reduced fabrication	 Ask for FSC- certified flooring	 Flooring from Swiss Wood													
Warranty and maintenance	<p>Residential warranty: 8 years Commercial warranty: 2 years Warranty conditions : http://www.kronospan.ch/en/products/flooring/your-guarantee.html Care and maintenance: www.eplf.com/en/laminate/infomaterial.html</p>																		

Product range and technical specifications

Product specifications

Size per board:	1380 x 193 x 8 mm 54.33 x 7.6 x 5/16 in
1 Box contains:	8 boards in total 2.131 m ² and 15 kg 22.94 sqft / 33.07 lbs
Optional:	4-sided V-Groove, footfall sound insulation

Technical specifications

	Value	Explanation	Rating	Standard
Classification characteristics				
Abrasion resistance	Class 31 AC 3	General use in commercial applications ≥ 2000 revolutions	Medium resistant class Medium, Cl. 3 of 5	EN 15468 EN 13329-E
Impact resistance	IC 1	Small diameter ball for surface resistance Large diameter ball for panel resistance	Medium, Cl. 1 of 3	EN 13329-F
Reaction to fire	C _{fl} -s1	Flame-retardant, no/low smoke emission	Improved for floor	EN 13501-1
General characteristics				
Thickness swelling	≤ 18 %	24 hours in water bath of 20°C	Normal swelling	EN 13329-G
Volatile Organic Compounds in total after 28 days	< 100 µg/m ³	TVOC _{28d} required for inside use < 1000 µg/m ³	Very low emissions	ISO 16000
Formaldehyde emission	≤ 0.1 ppm ≤ 0.11 ppm	E1 ≤ 0.1 ppm CARB II ≤ 0.11 ppm	Very low emission	EN 717-1 ASTM-E 1333
Surface soundness	≥ 1.00 N/mm ²	Strength of bonding between coating material and underlying panel	According to standard	EN 13329-D
Physical characteristics				
Static indentation	No visible change	≤ 0.01 mm indentation using a straight steel cylinder of 11.3 mm diameter	According to standard	EN 13329 EN 433
Thermal resistance	0.059 (m ² K)/W	Use of floor heating only if thermal resistance is lower than 0.15 (m ² K)/W	Qualified for use with floor heating	EN 12667
Slip resistance	DS	Slip resistant (DS) if coefficient ≥ 0.3	fulfilled	EN 14041
Effect of a furniture leg	No damage	Tested with foot type 0	high resistance	EN 13329 EN 424
Effect of a castor chair	No damage	25'000 cycles without any damage	high resistance	EN 13329 EN 425
Optical characteristics				
Resistance to staining	Level 5 in group 1+2 Level 4 in gr. 3	No visible change (group 1 Aceton and 2 Coffee), light change in group 3 (strong acids)	Very high optical resistance, grade 5/4 of 5	EN 13329 EN 438
Light fastness	≥ 6	Blue wool scale: change of colour with method of grey scale	Very stable (level 6 of 6)	ISO 105-B02
Resistance to cigarette burns	4	Light visible change	Good resistance (4 of 5)	EN 438
Micro-scratch resistance	≤ 20 %	Gloss change (Martindale Test)	Very low change	EN 16094
Tolerances				
Thickness of the element, <i>t</i>	8 mm	$\Delta t_{\text{average}} \leq 0.50 \text{ mm} \mid t_{\text{max}} - t_{\text{min}} \leq 0.50 \text{ mm}$		EN 13329
Length of the surface layer, <i>l</i>	1380 mm	$\Delta l \leq 0.50 \text{ mm}$		EN 13329
Width of the surface layer, <i>w</i>	193 mm	$\Delta w_{\text{average}} \leq 0.10 \text{ mm} \mid w_{\text{max}} - w_{\text{min}} \leq 0.20 \text{ mm}$		EN 13329
Squareness of the element, <i>q</i>		$q_{\text{max}} \leq 0.20 \text{ mm}$		EN 13329
Straightness of surface layer, <i>s</i>		$s_{\text{max}} \leq 0.30 \text{ mm/m}$		EN 13329
Flatness of the element, <i>f</i> Maximum single values		Width: $f_{w, \text{concave}} \leq 0.15 \% \mid f_{w, \text{convex}} \leq 0.20 \%$ Length: $f_{l, \text{concave}} \leq 0.50 \% \mid f_{l, \text{convex}} \leq 1.00 \%$		EN 13329
Openings between elements, <i>o</i>		$o_{\text{average}} \leq 0.15 \text{ mm} \mid o_{\text{max}} \leq 0.20 \text{ mm}$		EN 13329
Height diff. between element, <i>h</i>		$h_{\text{average}} \leq 0.10 \text{ mm} \mid h_{\text{max}} \leq 0.15 \text{ mm}$		EN 13329
Dimensional variations after changes in relative humidity, δ		Width: $\delta_{w, \text{average}} \leq 0.9 \text{ mm}$ Length: $\delta_{l, \text{average}} \leq 0.9 \text{ mm}$		EN 13329
Ecological characteristics				
Energy and Content Swiss Product declaration	Renewable energy > 90 % wood fibre ~80 %, Swiss wood UF adhesive ~15 % no post-consumer recycled content no chlorides and no biocides in the wood heavy metal free coating			SIA 493.05
Disposal	Thermal / energetic recovery			