















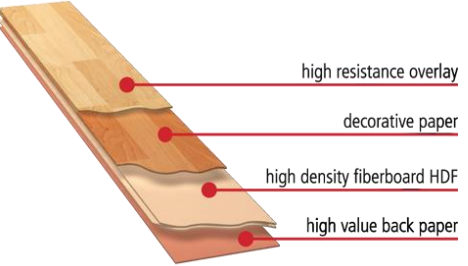














SWISS AQUASTOP

WATER RESISTANT LAMINATE

SWISSFLOOR PREMIUM FOR COMMERCIAL USE (AC4/32)

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

Characteristics	<p>Waterresistant: SWISS AQUASTOP is engineered to withstand topical moisture such as everyday household spills for at least 48 hours.</p> <p>Healthy: Produced to strict European norms. For a healthy living, emissions of vapours are the same as you would expect from wood in its natural state.</p> <p>Ecological: Made of 100 % FSC Mix certified wood from local sources – produced at the most modern, environmental friendly production facility of its kind.</p> <p>Resilient: Superior abrasion (cl. AC4/32), scratch- & impact resistance as well as colourfast (anti-fade) properties.</p>																
Technical classification	<p>Laminate floor covering according to EN 13329 High Density Fibreboard (HDF) Declaration of Performance (EN 14041): www.kronospan.ch/dop</p> <div style="text-align: right;">  <small>KCH_LFa_003</small> </div>																
Use	<p>Floor-Covering inside buildings</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">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></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	
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															
Product structure	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>high resistance overlay</p> <p>decorative paper</p> <p>high density fiberboard HDF</p> <p>high value back paper</p> </div> </div> <table border="1" style="width: 100%; text-align: center;"> <tbody> <tr> <td>  DS Slip resistant surface structure </td> <td>  Floor heating approved </td> </tr> </tbody> </table>	 DS Slip resistant surface structure	 Floor heating approved														
 DS Slip resistant surface structure	 Floor heating approved																
Certification	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <small>Swiss Made Swiss Quality</small> </div> <div style="text-align: center;">  <small>Certified System SwissTS ISO 9001 - ISO 14001</small> <small>Quality and Environment Management</small> </div> <div style="text-align: center;">  <small>Quality and Inspection made in Europe</small> <small>Member of European Pro- ducers of Laminate Flooring</small> </div> <div style="text-align: center;">  <small>CO2-reduced fabrication</small> </div> <div style="text-align: center;">  <small>Ask for FSC- certified flooring</small> </div> <div style="text-align: center;">  <small>Flooring from Swiss Wood</small> </div> </div>																
Warranty and maintenance	<p>Residential warranty: 35 years Commercial warranty: 5 years Warranty conditions : http://www.swisskrono.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 12 mm 54.33 x 7.6 x ½ in
1 Box contains:	5 boards / 14.33 sqft

Technical specifications

Characteristic	Value	Explanation	Rating	Standard
----------------	-------	-------------	--------	----------

Classification Properties

Level of use	Class 32	General use in commercial applications	High resistant Class	EN 13329
Abrasion resistance	AC 4	≥ 4000 revolutions (IP ≥ 4000)	High, Cl. 4 of 5	EN 13329-E
Impact resistance	IC 2	Small ball (surface resistance), impact in N Large ball (panel resistance), height of fall in mm	Medium, Cl. 2 of 3	EN 13329-F
Reaction to fire	C _{fl} -s1	Flame-retardant, no smoke emission	Improved skill for floor	EN 13501-1

General Properties

Thickness swelling	≤ 8%	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	Quality of bonding between coating and panel.	According to standard	EN 13329-D

Physical Properties

Static electrical propensity	≤ 2 kV	No electrostatic charge in dry room conditions (22 % rel. moisture)	According to standard	EN 1815
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	0.089 (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 Properties

Resistance to staining	Level 5 in group 1+2 Level 4 in gr. 3	No visible change (group 1 Aceton and 2 Cof-fee), light change in group 3 (strong acids)	Very high optical resistance, grade 5/4 of 5	EN 13329 EN 428-2.26
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

Size and Tolerances

Thickness of the element, <i>t</i>	12 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 Properties

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 recycling	Swiss Leg.