

HELVETIC LAKE VIEW COLLECTION

HELVETIC LAKE VIEW PREMIUM FOR GENERAL COMMERCIAL USE (AC4/32)

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

Characteristics	dark	Available in eight authentic, limed Oaks in modern colour tones from light to dark and ten individual, distinguished planks A floor of timeless beauty to enrich any place.					
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	Healthy: Prod	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.					
	Ecological: Woo	·					
		High abrasion (cl. AC4/32), for general use in commercial applications.					
	Affordable: Unb You mon						
	for years and years.						
Technical	Laminate floor covering according to EN 13329						
classification	High Density Fibreboard (HDF)						
	Declaration of Performance (EN 14041): www.kronospan.ch/dop kch_lf_003						
Use	Floor-Covering inside buildings						
	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		high resistance overlay decorative paper	Slip resistant surface structure	Floor heating approved			
			() ()				
		high density fiberboard HDF	_(\ \ <u>\</u>	V/ 4			
		high value back paper	C _{fl} -s1 Flame retardant, no smoking emissions	4 sided V-groove			
Certification	swissa	SWISS TS SOOT - 150 the	CO2	FSC WOOD			
	Swiss Quality E	Quality and Member of European invironment ducers of Laminate Flo lanagement		sk for FSC- Flooring from Swiss Wood			
Warranty and	Residential warranty: 25 years						
maintenance	Commercial warranty: 3 years						
	Warranty conditions: http://www.kronospan.ch/en/products/flooring/your-guarantee.html Care and maintenance: www.eplf.com/en/laminate/infomaterial.html						
	care and maintenance. www.epii.com/en/jaminate/infomatenai.ntml						



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Product range and technical specifications

Product	specifications
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Size per board: 1845 x 244 x 10 mm 1 Box contains: 4 boards in total 1.801 m²

Size per board.	1043 X 244 X 10 IIIII					
1 Box contains:	4 boards in total 1.801 m ²					
Characteristics:	4-sided V-Groo	ove, 5G-drop lock installation				
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	≤ 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	Quality of bonding between coating and panel.	According to standard	EN 13329-D		
Physical Properties		"				
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	0.075 (m ² K)/W	Use of floor heating only if thermal resistance is lower than 0.15 (m²K)/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 Coffee), 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						
Characteristic	Value	Tolerance (acc. to Standard, requirements	fulfilled)	Standard		
Thickness of the element, t	10 mm	$\Delta t_{\text{average}} \le 0.50 \text{ mm} \mid t_{\text{max}} - t_{\text{min}} \le 0.50 \text{ mm}$		EN 13329		
Length of the surface layer, I	1'380 mm	∆ <i>l</i> ≤ 0,50 mm		EN 13329		
Width of the surface layer, w	193 mm	$\Delta w_{\text{average}} \le 0.10 \text{ mm} \mid w_{\text{max}} - w_{\text{min}} \le 0.20 \text{ mm}$		EN 13329		
Squareness of the element, q		$q_{\text{max}} \le 0.20 \text{ mm}$		EN 13329		
Straightness of surface layer, s		$s_{\text{max}} \le 0.30 \text{ mm/m}$		EN 13329		
Flatness of the element, f	w, concave = 0.10 /o . w, convex = 0.20 /o			EN 13329		
Maximum single values		Length: $f_{I, concave} \le 0.50 \% f_{I, convex} \le 1.00 \%$				
Openings between elements, o		o average ≤ 0.15 mm o max ≤ 0.20 mm		EN 13329		
Height diff. between element, h		$h_{\text{average}} \le 0.10 \text{ mm} \mid h_{\text{max}} \le 0.15 \text{ mm}$				
Dimensional variations after changes in relative humidity, δ		Width: $\delta_{\text{w average}} \le 0.9 \text{ mm}$ Length: $\delta_{\text{l average}} \le 0.9 \text{ mm}$		EN 13329		
Ecological Properties						
Energy and Content Renewable energy > 90 % wood fibre ~80 %, Swiss wood UF adhesive ~15 % no post-consumer recycled content no chlorides and no biocides in the wood						
Dienoeal	heavy metal free coating Thermal recycling			Swiss Leg.		
Disposal	memai recycli	ny		OWISS LEG.		

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