

# Grand Selection

		GRAND SELECTION AUTHENTIC	GRAND SELECTION EVOLUTION	GRAND SELECTION PERFECTION	GRAND SELECTION CHEVRON	GRAND SELECTION HERRINGBONE EVOLUTION	GRAND SELECTION ORIGIN	GRAND SELECTION LIBERTY	
Material thickness	mm	14	14	11	10	14	14	8	
Material thickness (imperial)	in	0.5512	0.5512	0.4331	0.3937	0.5512	0.5512	0.315	
Material width	mm	244	193	244	329	143	244	193	
Material width (imperial)	in	9.6063	7.5984	9.6063	12.9528	5.6299	9.6063	7.5984	
Material length	mm	1845	1380	2025	1380	644	2025	1380	
Material length (imperial)	in	72.6378	54.3307	79.7244	54.3307	25.3543	79.7244	54.3307	
Declaration of performance code		KCH_LFa-G-SO_002	KCH_LFa-G-SO_002	KCH_LFa-G-SO_002	KCH_LFa-G-SO_002	KCH_LFa-G-SO_002	KCH_LFa-G-SO_002	KCH_LFa-G-SO_002	
Surface soundness	N/mm <sup>2</sup>					1.25			DIN EN 13329
Thickness swelling	%	≤ 8	≤ 8	≤ 10	≤ 10	≤ 10	≤ 8	≤ 10	DIN EN 13329
Formaldehyde emission (ppm) E1	ppm	≤ 0.1	≤ 0.1	≤ 0.11	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	EN 717-1 ASTM D-6007
Formaldehyde emission (ppm) CARB II / TSCA Title VI	ppm	≤ 0.11	≤ 0.11	≤ 0.1	≤ 0.11	≤ 0.11	≤ 0.11	≤ 0.11	ASTM D-6007
Reaction to fire (EU)						Bfl-s1			DIN EN 13501-1
Warranty Residential	a					35			
Warranty Commercial	a					5			
Usage class flooring (model)		33	33	33	33	33	33	33	
Type of edge		V-groove 4 sided	V-groove 4 sided	V-groove 4 sided	-	V-groove 4 sided	V-groove 4 sided	V-groove 4 sided	
Suitable for floor heating									
Thermal resistance	(m <sup>2</sup> K)/W	0.1	0.1	0.059	0.059	≤ 0.1	0.1	0.059	DIN EN 12667
Electrostatic propensity	kV					≤ 2			EN 1815
Slip resistance EU						DS			DIN EN 14041
Abrasion class info						Class 33/AC5			
Locking system		5G+	5G	5G+	5G	fold down	5G+	5G	
Micro-scratch resistance						MSR-A3			DIN EN 13329
Impact resistance small ball	N					≥ 15			DIN EN 13329
Impact resistance big ball	mm					≥ 1000			DIN EN 13329
Impact resistance big ball info						≥ Class 33/AC5			DIN EN 13329
Resistance to staining (group 1)						Level 5 - No damage			DIN EN 13329
Resistance to staining (group 2)						Level 5 - No damage			DIN EN 13329
Resistance to staining (group 3)						Level 4			DIN EN 13329
Light-fastness Blue wool scale						6			DIN EN 13329
Light-fastness Grey scale						4			DIN EN 13329
Effect of a furniture leg						No damage			DIN EN 13329
Castor chair resistance						No damage			DIN EN 13329
Antibacterial		Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VOC emission 28 days	µg/m <sup>3</sup>					< 100			DIN EN ISO 16000 DIN EN ISO 16000-10
Residual indentation	mm					≤ 0.05			DIN EN ISO 24343-1
Ecological properties		Heavy-metal free coating, No biocides, No chlorides, No post-consumer recycled wood, Renewable energy > 90%, Swiss wood, Thermally recyclable, UF resin ~18%, Wood fibres ~80%							

Tolerances

Thickness (average), $t$	$\Delta t_{average}$	$\leq 0.5 \text{ mm}$
Thickness (Max-Min), $t$	$t_{max} - t_{min}$	$\leq 0.5 \text{ mm}$
Length tolerance, $l$	$\Delta l$	$\leq 0.5 \text{ mm}$
Width (average), $w$	$\Delta w_{average}$	$\leq 0.1 \text{ mm}$
Width (Max-Min), $w$	$w_{max} - w_{min}$	$\leq 0.2 \text{ mm}$
Edge straightness, $s$	$s_{max}$	$\leq 0.3 \text{ mm/m}$
Squareness, $q$	$q_{max}$	$0.2 \text{ mm}$
Openings between elements (average), $o$	$o_{average}$	$\leq 0.15 \text{ mm}$
Openings between elements (max), $o$	$o_{max}$	$\leq 0.2 \text{ mm}$
Dimensional variations after changes in relative humidity (width), $\delta$	$\delta_{w average}$	$\leq 0.9 \text{ mm}$

Dimensional variations after changes in relative humidity (length),  $\delta$   $\delta_{l average} \leq 0.9 \text{ mm}$

Height differences between elements (average), $h$	$h_{average}$	$\leq 0.1 \text{ mm}$
Height differences between elements (max), $h$	$h_{max}$	$\leq 0.15 \text{ mm}$
Flatness width, concave, $f$	$f_{w, concave}$	$\leq 0.15 \%$
Flatness width, convex, $f$	$f_{w, convex}$	$\leq 0.2 \%$
Flatness length, concave, $f$	$f_{l, concave}$	$\leq 0.5 \%$
Flatness length, convex, $f$	$f_{l, convex}$	$\leq 1 \%$

Notes & Links

Care and maintenance	<a href="https://www.grandselection.com">https://www.grandselection.com</a>
Instructions on laying	<a href="https://www.grandselection.com">https://www.grandselection.com</a>
Product range, Infomaterial	<a href="https://www.grandselection.com">https://www.grandselection.com</a>
Warranty conditions	<a href="https://www.grandselection.com">https://www.grandselection.com</a>
Declaration of performance (DoP)	<a href="https://www.grandselection.com">https://www.grandselection.com</a>