

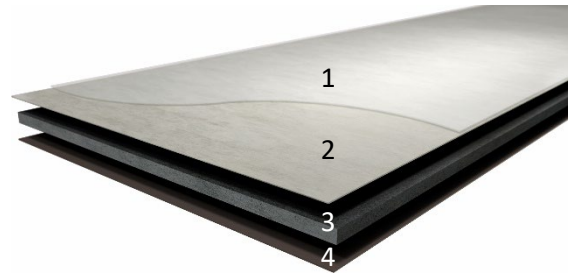
Laminate Data Sheet

HARO Laminate Tiles NKL33 LC plus

Structure

HARO Laminate Tiles NKL33 LC plus is a top-quality laminate floor product from Hamberger Flooring GmbH & Co. KG with the following structure:

1. Overlay, specially impregnated (durable protective layer)
2. Decorative laminate, specially impregnated
3. High moisture control AquaReject coreboard
4. Balancing laminate



Dimensions and moisture behaviour

All information is based on a delivery moisture of 4 - 10% according to EN 322.

Length	Width	Total thickness	Weight per unit area	Equilibrium moisture 23°C / 50% r.h.
EN 13329, Annex A	EN 13329, Annex A	EN 13329, Annex A	-	EN 322
1184 mm	601 mm	8 mm	7.99 kg/m ²	5.5%
Max. tolerance: ±0.5mm (EN 13329: ±0.5 mm/±0.3 mm/m)	Max. tolerance: ±0.1mm (DIN EN 13329: ±0.1mm)	Max. tolerance: ±0.25mm (EN 13329: ±0.25mm)	Gross density differences in the coreboard mean tolerances may be required.	Max. tolerance: ± 1%





Installation system




The patented glueless connection system guarantees an easy, perfect-fit and permanent installation of the laminate floor.







Long side: interlocking by angling in
Short side: interlocking by tapping in or angling in

Performance specifications

Level of use [DIN EN 13329]	Fire classification [DIN EN 13501-1]	Sliding friction [DIN EN 14041; EN 13893]	Thermal resistance
			
23 / 33	Bfl-s1	$\mu \geq 0.30$ / DS	0.065 m ² K/W
23 = private home with heavy traffic 33 = commercial application with heavy traffic The laminate floor fulfils all properties in the designated level of use class.	Bfl = flame-retardant	The laminate floor fulfils the anti-slip requirements of class DS.	Thermal conductivity value; the limit value of max. 0.15 m ² K/W should be observed for under-floor heating.

Electrostatic behaviour [DIN EN 1815]	Formaldehyde emissions [DIN EN 717-1]	VOC emissions [AgBB schema]	Resistance to micro scratches [DIN EN 16094]
			
Antistatic	≤ 0.05 ppm	≤ 300 ppm	Class 2
Body tension in walk test is ≤ 2kV.			Resistance to a scouring pad which leaves no or only minimal and hardly visible scratches (procedure: A).

Resistance to wear [DIN EN 13329]	Impact test [DIN EN 13329]	Thickness swelling [DIN EN 13329]	Resistance to staining [DIN EN 438-2]
			
AC6	≥ 70 mm / ≥ 750 mm	≤ 15%	5 (Gr. 1-2) / 4 (Gr. 3)
Wear-through IP ≥ 8500 rotations according to DIN EN 13329.	The impact class results from the falling ball and impact resistance test.	Requirement under DIN EN 13329: ≤ 18%.	No change in shine/colour caused by substances and chemicals found in households.

Quality label



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Hamberger Flooring GmbH & Co.KG - Production Engineering

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