

Laminate Floor Data Sheet

HARO Special Edition NKL 31

Construction

HARO Special Edition NKL31 is a high-quality laminate floor by Hamberger Flooring GmbH & Co. KG with the following construction:

1. Overlay, specially impregnated (durable protective layer)
2. Decorative laminate, specially impregnated
3. special moisture control HDF E1 coreboard aquaResist
4. Balancing laminate
5. Back of the board: Optionally Silent Pro insulation layer



Dimensions and moisture behavior

All data refer to the delivery humidity of 4-10% according to EN 322.

Length	Width	Total thickness	Weight per unit area	Equilibrium humidity at 23°C / 50% RH
EN 13329, Anhang A	EN 13329, Anhang A	EN 13329, Anhang A	-	EN 322
1282mm / 50 1/2"	193mm / 7 19/32"	7mm / 9/32"	6.41 kg/m ² 8.31k g/m ² with Silent Pro	5,0%
maximum deviation: ±0.5mm (DIN EN 13329: ±0,5mm/±0,3mm/m)	maximum deviation: ±0.1mm (DIN EN 13329: ±0.1mm)	maximum deviation: ±0.2mm (DIN EN 13329: ±0.25mm)	Slight deviations are possible due to variations in the core board's bulk density.	maximum deviation: ±0.5%

Installation system


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







On the long sides: Angle-in to lock it
On the short sides: Angle-in or knock-in to lock it





Insulation layer





The laminate floor can optionally be provided with a Silent Pro insulation layer. Please pay attention to the data sheets of the insulation layer.

	Thickness	Thermal resistance	Indoor sound improvement	Footfall improvement
	ca. 2mm	0,01m ² k/W	ca. 30%	ca. 18 dB

Performance specifications

Level of use [DIN EN 13329]	Reaction to fire [DIN EN 13501-1]	Sliding friction [DIN EN 14041; EN 13893]	Thermal resistance
			
23 / 31	C _{fi} -s1	DS / R9*	0.058m ² K/W
23 = residential application with intensive use 31 = commercial applications with low traffic The laminate floor fulfils all requirements of the specified level of use.	C _{fi} = flame-resistant	μ ≥ 0.35 The laminate floor fulfils the requirements for occupational safety in accordance with BGR 181. *does <u>not</u> apply to floors with pore texture	Thermal conductivity value; limit value max. for underfloor heating is 0.15 m ² K/W

Electrostatic behaviour [DIN EN 1815]	Formaldehyde emissions [DIN EN 717-1]	VOC emissions [AgBB-Scheme/Blue Angel]	Micro scratch resistance [DIN EN 16094]
			
Antistatic	≤ 0.05ppm	≤ 300ppm	Class 1
During the walk test the body voltage is ≤ 2kV.	Evidence of emissions for: - Blue Angel (RAL UZ 176) - DGNB ENV 1.2, quality level 4, criteria matrix 47a www.dgnb-navigator.de - LEED v.1 Option 2 & Leed v4 for projects outside U.S.; EQ credit low-emitting materials - BREEAM Hea02 Indoor air Quality, exemplary level emission criteria for wood flooring (table 18)		Resistance to a scouring pad which leaves no or only minimal and hardly visible scratches (process: B).

Abrasion resistance [DIN EN 13329]	Impact test [DIN EN 13329]	Thickness swelling [DIN EN 13329]	Stain resistance [DIN EN 438-2]
			
AC3	≥ 8 N / ≥ 500 mm	≤ 15%	5 (Gr 1-2) / 4 (Gr 3)
Wear-through IP ≥ 2000 rotations in accordance with DIN EN 13329.	The impact class results from the falling ball and the impact resistance test.	Requirement according to DIN EN 13329: ≤ 18%.	No change of gloss / colour by substances or chemicals that are common in a household.

Quality label

