

# Laminate Floor Data Sheet

HARO Tritty 100 / 100 Loft 4V / 100 Campus 4V / 100 Gran Via 4V

## Construction

HARO Tritty 100/Loft 4V/Campus 4V/Gran Via 4V 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: Optional Silent Pro insulation layer or Silent CT (ComforTec)



## Dimensions

Basis: DIN EN 13329. The underlying stricter company standard is stated along with the respective comparative value of the DIN EN 13329.

Length	Width	Total thickness	Weight per unit area
1282mm (50 1/2") (100, Loft, Campus), 2200mm (86 5/8") (100 Gran Via)	135mm (5 5/16") (Loft), 193mm (7 19/32") (100), 243mm (9 9/16") (Campus, Gran Via)	8mm (5/16")	7.21kg/m <sup>2</sup> 9.11kg/m <sup>2</sup> with Silent Pro 7.21kg/m <sup>2</sup> with Silent CT
maximum deviation: ±0.5mm (DIN EN 13329: ±0.5mm)	maximum deviation: ±0.1mm (DIN EN 13329: ±0.1mm)	maximum deviation: ±0.1mm (DIN EN 13329: ±0.5mm)	Slight deviations are possible due to variations in the core board's bulk density.

## Installation system



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







On the short sides: Fold Down System - Top Connect  
On the long sides: Angle-in to lock it – Lock Connect





## Insulation layer





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

	Thickness	Thermal resistance	Indoor sound improvement	Footfall improvement
	approx. 2mm (3/32")	0.01m <sup>2</sup> k/W	approx. 30%	approx. 18 dB
	approx. 2mm (3/32")	0.04m <sup>2</sup> k/W	approx. 60%	approx. 14 dB

## Performance specifications

Level of use [DIN EN 13329]	Reaction to fire [DIN EN 13501-1]	Sliding friction [DIN EN 14041; DIN 51130]	Thermal resistance
			
23 / 32	C <sub>fl</sub> -S1	DS / R9*	0.065m <sup>2</sup> 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 <sub>fl</sub> = 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 <sup>2</sup> K/W

Electrostatic behaviour [DIN EN 1815]	Formaldehyde emissions [DIN EN 717-1]	VOC emissions [AgBB-Scheme/Blue Angel]	Micro scratch resistance [DIN ENV 16094]
			
Antistatic	≤ 0.05ppm	≤ 300ppm	Class 1
During the walk test the body voltage is ≤ 2kV.	The result meets the requirements of the Blue Angel - therefore it is at least 50% below the E1 limit value.	Wood is an organic material and therefore emits volatile organic compounds (VOC). This is constantly and strictly monitored. Therefore, HARO Laminate fulfils the criteria of the Blue Angel as well as the valid European emissions allowances.	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]
			
AC4	IC2	≤ 12%	Grade ≥ 4
Wear-through IP ≥ 4000 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.

## Certificates



Hamberger Flooring GmbH & Co.KG - Production Engineering

Quality management system Form PT 7.3/02/00/00/0502.2 v. 05/08.14-en