

HAMBERGER

Production Engineering/Laboratory

Technical Data Sheet for HARO PARQUET

HARO PARQUET 4000, Strip 10 mm

HARO
PARQUET



 **bioTec**
OIL/WAX FINISH

PERMADUR
HIGH FINISH

Laboratory tests		
Test criteria	Internal target values HARO ¹⁾	Description
Abrasion resistance (EN 438-2, 6)	IP > 800 revolutions	Only PERMADUR high finish: Evaluation of the abrasion resistance of the surface finish by means of the IP value determined in the so-called Taber Abraser Test
Scratch resistance (EN 438-2, 14) ("Planing" test)	2.0 N	Only PERMADUR high finish: Greatest weight force under which an edged tip (diamond) which is drawn across the surface leaves an only just visible marking. Conventional UV finishes achieve values of < 1.5 N
	> 20 N	HARO factory procedure; conventional UV finishes achieve values of < 20 N
Impact test (EN 438-2, 12)	> 1200 mm	Evaluation of the behaviour when subjected to impact from a large steel ball dropped on the surface (falling-ball test)
Slip resistance	$\mu = 0.5 - 0.7$	Evaluation by means of the μ -value under field conditions; HARO PARQUET is even used for sports flooring!
Resistance to staining (DIN 68861, group A)	resistant	No visible changes, even after prolonged exposure, from staining liquids commonly found in households (only with surface finish)
Resistance to soiling	resistant	Dirt-repellent due to closed-pore surface (only with surface finish)
Hardness (EN 1534) (EN 433)	25 - 35 N/mm ²	Brinell hardness; the results achieved depend on the wood species and range from 25 to 35 N/mm ²
	< 0.01 mm	Residual indentation after constant load
Formaldehyde and VOC emission (EN 717)	harmless	HARO PARQUET is - in some cases even considerably - below the applicable limit values in all material variants and meets the requirements for the "Blue Angel" eco label
Heat transfer resistance (DIN 4108)	0.116 m ² k/W	Thermal conductivity value; good conductivity recommended for underfloor heating (limit value max. 0.15 m ² K/W), low conductivity (insulation) for "foot-cold" floors.
Dimensional stability, longitudinal and transverse	dimensionally stable	Under normal climatic indoor conditions no negative deformations are to be expected; complies with the requirements for multi-layer parquet.
Electrical resistance	10 ¹⁰ - 10 ⁷ Ω	Resistance of wood and wood-based material with a moisture content of 5% to 20%; wood and wood-based materials are considered to be materials with derivation ability
Bonding quality (EN 204)	D3	D3 = Stress group for indoor areas

¹⁾ Values apply internally as target values; in external communication, the values apply according to standard, if defined!



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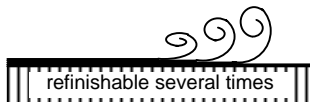
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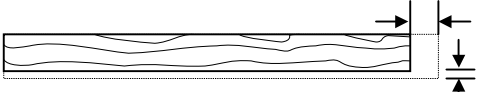
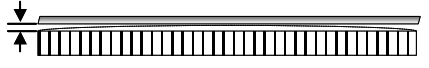
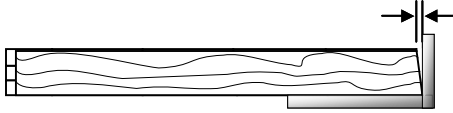
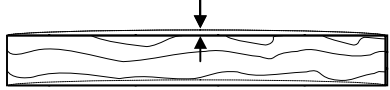
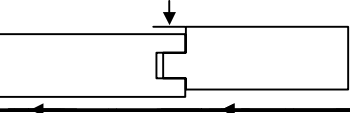
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Construction

<i>PERMADUR</i> high finish Precious-wood top layer		approx. 60 - 70 µm 3.6 mm
Solid spruce fingerstrips as coreboard base		6.4 mm
Total thickness		10 +/- 0.2 mm
Dimensions - Width		70/ 120 mm
Dimensions - Length		409/ 996 mm

Ready-to-install strip

Quality criteria	prEN 13489	Internal target values HARO ¹⁾	Symbol
Top layer thickness	min. 2.5 mm	3.6 mm	
Equilibrium wood moisture content	5 - 9 %	5 - 9 %	Corresponds to the average Middle European annual climatic indoor conditions

Tolerance criteria ²⁾			Symbol
Length	+/- 0.4 mm +/- 1.0 mm	+/- 1.0 mm	
Width	+/- 0.2 mm	+/- 0.1 mm	
Deviation from flatness	long. --- trans. +/- 0.14 mm +/- 0.24 mm	+/- 0.35 mm + 0.1 mm - 0.05 mm	
Deviation from squareness	+/- 0.14 mm +/- 0.24 mm	+/- 0.1 mm	
Straightness of surface layer (sickle-shaped warping)	+/- 0.41 mm +/- 1.0 mm	+/- 0.1 mm	
Height difference between planks (raised edges)	max. 0.2 mm	max. 0.1 mm	

¹⁾ Values apply internally as target values; in external communication, the values apply according to standard, if defined!

²⁾ Manufacturing tolerances; apply to the condition at the time of dispatch and relate to a wood moisture content of 7%