

LUNDHS Royal®

LUNDHS Royal® is the material with the lightest colour in Lundhs' portfolio, with a grey background sprinkled with large ice-blue crystals. Excellent for both interior and exterior surfaces.

Technical Properties	Test Surface	Standard	Unit	Mean
Apparent density	Sawn	NS-EN 1936	kg/m³	2711 ±
Open porosity	Sawn	NS-EN 1936	%	0,10 ±
Water absorption	Sawn	NS-EN 13755	% weight	0,03 ±
Slip resistance	Polished	NS-EN 14231	SRV, dry	94 ±
	Polished	NS-EN 14231	SRV, wet	8 ±
	Honed	NS-EN 14231	SRV, dry	66 ±
	Honed	NS-EN 14231	SRV, wet	11 ±
	Silk/Leather	NS-EN 14231	SRV, dry	52 ±
	Silk/Leather	NS-EN 14231	SRV, wet	13 ±
	Honed	DIN-EN 16165	α shod	R9
	Silk/Leather	DIN-EN 16165	α shod	R9
	Caress	DIN-EN 16165	α shod	R9
	Sandblasted, waterjet, flamed	DIN-EN 16165	α shod	R13
Abrasion resistance – Capon, wide wheel	Sawn	NS-EN 14157 (A)	mm	17,5 ±
Sound Velocity	Sawn	NS-EN 14579	m/s	6104 ±
Breaking load at dowel holes	Sawn	NS-EN 13364	N	4022 ±
Rupture energy	Sawn	NS-EN 14158	J	4,2 ±
Compressive strength	Sawn	NS-EN 1926	MPa	264,2 ±
Flexural strength	Sawn	NS-EN 12372	MPa	14,6 ±
Flexural strength after 56 freeze-/thaw cycles	Sawn	NS-EN 12371	MPa	14,2 ±
Flexural strength after 20 thermal shock cycles	Sawn	NS-EN 14066	MPa	13,2 ±
Frost resistance		NS-EN 12371		
Weight change	Sawn	NS-EN 12371	%	-0,03 ±
Reduction in flexural strength	Sawn	NS-EN 12371	%	-2,7
Visual inspection	Sawn	NS-EN 12371	Score 0-5	0 (max value)
Resistance to ageing by thermal shock		NS-EN 14066		
Weight change	Sawn	NS-EN 14066	%	-0,01 ±
Reduction in flexural strength	Sawn	NS-EN 14066	%	-9,6
Visual inspection	Sawn	NS-EN 12371	Score 0-5	0 (max value)
Heat resistance		NS-EN 12721-22		
300 C, wet heat	Polished 32mm	NS-EN 12721	Score 0-5	5 (max value)
300 C, dry heat	Polished 32 mm	NS-EN 12722	Score 0-5	5 (max value)
Petrographic composition ¹⁾		NS-EN 12407		
Feltspar: 81.5%, Pyroxene: 4%, Nepheline: 3%, Amphibole: 2%, Opagues (magnetite, ilmenite): 3%, Biotite: 2.5%, Olivine: 2%, Apatite: 1.5%				

¹⁾ Test results are based on 3x2 cm objects and the examination provides information of the texture of the rock. However, variations in mineral composition and structure must be expected. Test results are an average of tests performed in 2006 and 2019. Only main minerals are listed.

Tested at SINTEF 2019. The tests have been performed according to technical requirements given in e.g. NS-EN 1467 (rough blocks), NS-EN 1469 (slabs for cladding), NS-EN 12057 (modular tiles), NS-EN 12058 (slabs for floors and stairs) and NS-EN 12721/NS-EN 12722 (furniture test methods).

DIN-EN 16165 (Determination of slip resistance of pedestrian surfaces – Methods of evaluation) is performed by LGA Bautechnik GmnH in 2022.