LUNDHS

Technical Data Sheet – ASTM Standard

Stone type: Larvikite (Monzonite). **Origin:** Crafted 300 million years ago in Larvik, Norway.

LUNDHS Royal®

LUNDHS Royal® is the material with the lightest color 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[2)]	Sawn	ASTM C97	lbs/ft³	170.00 ±
Open Porosity[1)]	Sawn	NS-EN 1936	%	0.10 ±
Water Absorption[2)]	Sawn	ASTM C97	% weight	0.02 ±
Slip Resistance[2)]	Polished	ANSI A326.3	DCOF, wet	0.34 ±
	Honed	ANSI A326.3	DCOF, wet	0.38 ±
	Caress	ANSI A326.3	DCOF, wet	0.30 ±
	Silk/Leather	ANSI A326.3	DCOF, wet	0.59 ±
	Waterjet	ANSI A326.3	DCOF, wet	0.83 ±
	Flamed	ANSI A326.3	DCOF, wet	0.77 ±
	Sandblasted	ANSI A326.3	DCOF, wet	0.82 ±
Abrasion Resistance Evaluation[2)]	Sawn	ASTM C1353	Index	327.20 ±
Breaking Load at Dowel Holes[1)]	Sawn	NS-EN 13364	N	4022 ±
Compressive Strength[2)]		**ASTM C170**		
Perpendicular Loading, wet	Sawn	ASTM C170	psi	22,350 ±
Perpendicular Loading, dry	Sawn	ASTM C170	psi	24,750 ±
Parallel Loading, wet	Sawn	ASTM C170	psi	23,300 ±
Parallel Loading, dry	Sawn	ASTM C170	psi	24,400 ±
Flexural Strength, thickness 1¼" [2)]		**ASTM C880**		
Perpendicular Loading, wet	Sawn	ASTM C880	psi	1,620 ±
Perpendicular Loading, dry	Sawn	ASTM C880	psi	2,060 ±
Parallel Loading, wet	Sawn	ASTM C880	psi	1,500 ±
Parallel Loading, dry	Sawn	ASTM C880	psi	1,650 ±
Post Freeze-Thaw - 150 cycles[2)]		**ASTM C666**		
Perpendicular Loading - no visual changes	Sawn	ASTM C666	psi	1,950 ±
Parallel Loading - no visual changes	Sawn	ASTM C666	psi	1,480 ±
Heat resistance[1)]		**NS-EN 12721-22**		
300 C, wet heat	Polished 32 mm	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)] The tests have been performed at SINTEF 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 at Fira according to NS-EN 12721/NS-EN 12722 (furniture test methods). Test results of petrographic composition are an average of tests performed by SINTEF in 2006 and 2019. Only main minerals are listed.

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.

[2)] Tested at Natural Stone Institute according to ASTM and ANSI standard test methods.

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