

LUNDHS Emerald®

LUNDHS Emerald® is the darkest stone in our assortment. The stone has a beautiful dark background with lustrous blue crystals, and is an excellent choice for both interior and exterior use.

Technical Properties	Test Surface	Standard	Unit	Mean
Apparent Density ²⁾	Sawn	ASTM C97	lbs/ft³	169.00 ±
Open Porosity ¹⁾	Sawn	NS-EN 1936	%	0.45 ±
Water Absorption ²⁾	Sawn	ASTM C97	% weight	0.07 ±
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	155.00 ±
Breaking Load at Dowel Holes ¹⁾	Sawn	NS-EN 13364	N	4478 ±
Compressive Strength ²⁾		ASTM C170		
Perpendicular Loading, wet	Sawn	ASTM C170	psi	15,000 ±
Perpendicular Loading, dry	Sawn	ASTM C170	psi	18,220 ±
Parallel Loading, wet	Sawn	ASTM C170	psi	16,060 ±
Parallel Loading, dry	Sawn	ASTM C170	psi	18,570 ±
Flexural Strength, thickness 1¼" ²⁾		ASTM C880		
Perpendicular Loading, wet	Sawn	ASTM C880	psi	1,210 ±
Perpendicular Loading, dry	Sawn	ASTM C880	psi	1,460 ±
Parallel Loading, wet	Sawn	ASTM C880	psi	1,580 ±
Parallel Loading, dry	Sawn	ASTM C880	psi	1,700 ±
Post Freeze-Thaw - 150 cycles ²⁾		ASTM C666		
Perpendicular Loading - no visual changes	Sawn	ASTM C666	psi	1,190 ±
Parallel Loading - no visual changes	Sawn	ASTM C666	psi	1,600 ±
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: 83.5%, Pyroxene: 3.5%, Amphibole: 4.5%, Opagues (magnetite, ilmenite): 3%, Biotite: 1.5%, Olivine: 2.5%, Apatite: 1%				

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.