

DOP/0-8/30-1-2021 (replaces version of 01-06-2020)

**The undersigned, representing
LAVA MINING AND QUARRYING S.A.
32, D. Solomou str., GR14123 - Lykovrissi Attica Greece**

Declares that

**PUMICE (0/8mm), Lightweight aggregate for concrete, mortar and grout
Conforms to the Annex ZA of the harmonized European Standard: EN 13055-1:2002
CPR ANNEX V System 2+**

The Notified Body Bureau Veritas Certification Denmark A/S, Oldenborggade 25-31 DK-7000 Fredericia, Tlf. 77 31 10 00, identified No. 0615, performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control, and issued the certificate of constancy of conformity of the factory production control (0615/CPR/9981).

Loose bulk density (dry) (Mg/m ³)	0.80 (Min/Max: 0.70/0.90)		EN 1097-3	
Loose bulk density (wet) (Mg/m ³)	0.84 (Min/Max: 0.74/0.94)			
Apparent Particle density ρ_{La} (Mg/m ³)	0/4 fraction	4/8 fraction	EN 1097-6 annex C	
	1.95±0,15	1.70±0,15		
Oven dry Particle density ρ_{Lrd} (Mg/m ³)	0/4 fraction	4/8 fraction		
	1.70±0,15	1.17±0,15		
Grading (%)	Sieve (mm)	Passing (%)	EN 933-1 ⁽²⁾ :	
	8	99		95-100
	4	78		68-88
	2	54		44-64
	1	38		30-46
	0.5	27		20-34
	0.25	20		15-25
	0.125	15		10-20
Fines (%)	≤15%		EN 933-1 ⁽²⁾ :	
Water absorption WA24 (%)	0/4 fraction	4/8 fraction	EN 1097-6 annex C	
	8±4	30±10		
Water content	19-33%		EN 1097-5 (on dry mass)	
	16-26%			EN 1097-5 (on wet mass)
Crushing resistance (N/mm ²)	4 N/mm ²		EN 13055-1, annex A	
Percentage of crushed particles (%)	NPD ⁽¹⁾		EN 933-5	
Resistance to disintegration (%)	NPD ⁽¹⁾		EN 13055-1 annex B	
Freezing and thawing resistance (%)	max 3.7%		EN 13055-1 annex C	
Chloride (%)	<0.050%		EN 1744-1 clause 7	
Acid soluble sulfate (%)	< 0.10%		EN 1744-1 clause 12	
Total sulfur (%)	< 0.10%		EN 1744-1 clause 11	
Organic contaminators (%)	No harmful contaminators		EN 1744-1 15.1, 15.2	
Alkali – silica reactivity	Non reactive		ASTM C289, XP-P18594	
Dangerous substances. In particular:				
Emission of radioactivity	Radiologically suitable for safe use		Radiation Protection 112, European Commission 1999	
Release of heavy metals	As <4ppm, Cd <0.4ppm, Cr <20 ppm, Cu <5ppm, Hg <0.05ppm, Pb <13ppm, Ni <6 ppm, Zn <20 ppm		In accordance with NEN 6950 (destruction in accordance with NEN 6961, measurement in accordance with NEN 6966); In house method (destruction in accordance with NEN 6961 and equivalent to NEN-EN 16174, measurement with ISO 22036 and in accordance with NEN-EN 16170)	
Release of polyaromatic carbons	Organic carbon is not present in pumice		ISO 10694	

⁽¹⁾ No Performance Determined, ⁽²⁾: dry sieving

The performance of the product identified above as PUMICE 0/8mm is in conformity with the declared values. The present Declaration of Performance is established under the full responsibility of LAVA SA.

Signed on behalf of the manufacturer

Date: 30/01/2021

Full Name: E. Christoforakis

Position: Manager