

Declaration of Performance

DOP/0-40 Landfill/30-1-2020 (replaces version of 1/1/2019)

The undersigned, representing
LAVA MINING AND QUARRYING S.A.
 19,3 km Markopoulou Avenue 19002 Paiania Attica - Greece
Declares that

PUMICE (0/40mm Landfill), Lightweight aggregate for bound and unbound applications
Conforms to the Annex ZA of the harmonized European Standard: EN 13055-2:2004
CPR ANNEX V System 2+

The Notified Body Bureau Veritas Certification Denmark A/S, Oldenborggade 1B, 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-9984).

Loose bulk density (wet) (Mg/m ³)	0,740 (Min/Max: 0,640/0,840)	EN 1097-3																		
Particle density (Mg/m ³)	NPD ⁽²⁾	EN 1097-6 , annex C																		
Grading (%)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Sieve (mm)</th> <th>Passing (%)</th> <th>Range (%)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">31.5</td> <td style="text-align: center;">99</td> <td style="text-align: center;">98-100</td> </tr> <tr> <td style="text-align: center;">16</td> <td style="text-align: center;">85</td> <td style="text-align: center;">80-90</td> </tr> <tr> <td style="text-align: center;">12.5</td> <td style="text-align: center;">76</td> <td style="text-align: center;">66-86</td> </tr> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;">33</td> <td style="text-align: center;">25-41</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">18</td> <td style="text-align: center;">13-23</td> </tr> </tbody> </table>	Sieve (mm)	Passing (%)	Range (%)	31.5	99	98-100	16	85	80-90	12.5	76	66-86	8	33	25-41	4	18	13-23	EN 933-1 ⁽³⁾
	Sieve (mm)	Passing (%)	Range (%)																	
	31.5	99	98-100																	
	16	85	80-90																	
	12.5	76	66-86																	
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Fines (%)	NPD ⁽²⁾	EN 933-1 ⁽³⁾																		
Water content	16-26%	EN 1097-5(calc upon wet mass)																		
Water absorption (%)	NPD ⁽²⁾	EN 1097-6 , annex C																		
BulkCrushing resistance (N/mm ²)	NPD ⁽²⁾	EN 13055-1 , annex A																		
Percentage of crushed particles (%)	NPD ⁽²⁾	EN 933-5																		
Resistance to disintegration (%)	NPD ⁽²⁾	EN 13055-1, annex B																		
Freezing and thawing resistance (%)	NPD ⁽²⁾	EN 13055-2, annex B																		
Water Suction height	NPD ⁽²⁾	EN 1097-10																		
Compaction and load bearing capacity	NPD ⁽²⁾	EN 13055-2 , annex A																		
Resistance to cyclic compressive loading	NPD ⁽²⁾	EN 13286-7																		
Resistance to thermal shock	NPD ⁽²⁾	EN 1367-5																		
Resistance to polishing	NPD ⁽²⁾	EN 1097-8																		
Resistance to wear by abrasion from studded tyres	NPD ⁽²⁾	EN 1097-9																		
Compatibility between LWA and bitumen	N/A ⁽¹⁾	EN 12697-11																		
Water Soluble Chloride (%)	NPD ⁽²⁾	EN 1744-1 , clause 7																		
Water soluble sulphate (%)	NPD ⁽²⁾	EN 1744-1 , clause 10																		
Thermal conductivity	N/A ⁽¹⁾	EN 12664 or EN 12667																		
Dangerous substances. In particular: Emission of radioactivity	NPD ⁽²⁾																			
Release of heavy metals	NPD ⁽²⁾																			
Release of polyaromatic carbons	NPD ⁽²⁾																			

⁽¹⁾Not Applicable, ⁽²⁾ No Performance Determined, ⁽³⁾: dry sieving

The performance of the product identified above as PUMICE 0/40mm Landfill 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: 30/1/2020

Full Name: E. Christoforakis

Position: Manager