



0615

**0/40
Landfill****LAVA MINING AND QUARRYING S.A.**

32, D. Solomou str., GR14123 - Lykovrisi Attica Greece

05

0615-CPR-9984

DoP No: DOP/0-40 Landfill

/23-05-2024

Issue Date: 23-05-2024

**EN 13055-2
PUMICE
(0/40mm Landfill)**

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"> <thead> <tr> <th>Sieve (mm)</th> <th>Passing (%)</th> <th>Range (%)</th> </tr> </thead> <tbody> <tr> <td>31.5</td> <td>99</td> <td>98-100</td> </tr> <tr> <td>16</td> <td>85</td> <td>80-90</td> </tr> <tr> <td>12.5</td> <td>76</td> <td>66-86</td> </tr> <tr> <td>8</td> <td>33</td> <td>25-41</td> </tr> <tr> <td>4</td> <td>18</td> <td>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																		
8	33	25-41																		
4	18	13-23																		
Fines (%)	<10%	EN 933-1 ⁽³⁾																		
Water content	16-26%	EN 1097-5(calc upon wet mass)																		
Water absorption (%)	NPD ⁽²⁾	EN 1097-6 , annex C																		
Bulk Crushing 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 (%)	<0.10%	EN 1744-1.; clause 7																		
Water soluble sulphate (%)	<0.01%	EN 1744-1.; clause 10																		
Thermal conductivity	N/A ⁽¹⁾	EN 12664 or EN 12667																		
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⁾Not Applicable, ⁽²⁾ No Performance Determined, ⁽³⁾: dry sieving