



Summary of the Certification obtained from the Polytechnic of Turin, Department of Earth Resources and Territory

## TECHNICAL FEATURES AND PHYSICAL CHARACTERISTICS OF ETNA LAVASTONE (RAW STONE)

### TECHNICAL FEATURES

Bulk specific gravity: 2.795 Kg/mc

Water absorption value: 10,20 %

Compression breaking load: 113,4Mpa

Elastic tangent modulus: 25,032MPa

Elastic secant modulus: 18,347 MPA

Breaking load due to indirect traction by means of bending: 10,7 MPa

Wear due to sliding friction: abrasion coefficient in Tribometer: 4,37 mm

Resistance to breakage on impact (minimum fall height): 63 cm

Knoop micro hardness: 4825 MPa

### PHYSICAL CHARACTERISTICS

Average volume weight - 2.658 gr/cmc

Actual specific weight - 2.856 gr/cmc

Porosity - 6.93%

Average compression strength - 1642 kg/cm<sup>2</sup>

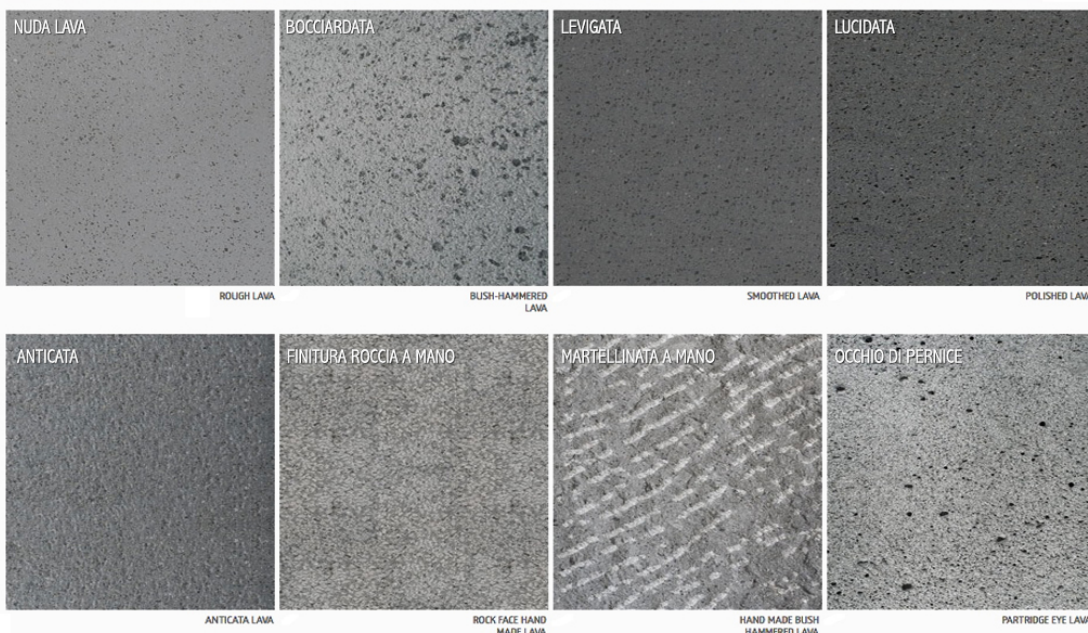
Frost shattering - 1930 kg/cm<sup>2</sup>

Resistance to wear - 0.64

Shattering coefficient - 115.8

Resistance to bending - 167.2 kg/cm<sup>2</sup>

Total breaking load - 0.275 mm



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