

FILSTONE BEIJE M

PORTUGUESE LIMESTONE

Technical Information

Location

Casal Farto, Fátima, Ourém, Santarém,
Portugal

Company

Filstone - Comércio de Rochas, SA

Type/Granulometry

Limestone, Medium Grain

Mineralogy

Peloids and oolites (60%)
Bioclasts (15%)
Sparitic cement (25%)

Physical-Mechanical

Apparent density measurement

2473,00 Kg/m³

Open porosity measurement

8,45 %

Water absorption measurement at normal
atmospheric pressure

3,22 %

Water absorption coefficient by capillarity

12,55 g/m². s^{0.5}

Uniaxial compressive strength in
DRY conditions

130,64 MPa

Uniaxial compressive strength after
FREEZE/THAW test

106,00 MPa

Flexural strength under central load in
DRY conditions

13,30 MPa

Flexural strength under central load after
FREEZE/THAW test

11,70 MPa

Flexural strength under central load after
THERMAL SHOCK

12,00 MPa

Percentage of volume change after
140 frost cycles

29,00 %

Breaking load at dowel hole

2041,67 N

Sound speed propagation

5,05 Km/s

Rupture energy

3,00 J

Abrasion resistance

22,25 mm

Slip resistance in DRY conditions - Sawn

55,83 (coefficient of friction * 100)

Slip resistance in WET conditions - Sawn

67,83 (coefficient of friction * 100)