

FILSTONE BEIJE MMF

PORTUGUESE LIMESTONE

Technical Information

Location

Casal Farto, Fátima, Ourém, Santarém,
Portugal

Company

Filstone - Comércio de Rochas, SA

Type/Granulometry

Limestone, Fine Grain

Mineralogy

Peloids and oolites (65%)

Bioclasts (10%)

Sparitic cement (25%)

Physical-Mechanical

Apparent density measurement

2552,00 Kg/m³

Open porosity measurement

5,65 %

Water absorption measurement at normal
atmospheric pressure

2,12 %

Water absorption coefficient by capillarity

8,64 g/m² . s^{0.5}

Uniaxial compressive strength in
DRY conditions

146,37 MPa

Uniaxial compressive strength after
FREEZE/THAW test

132,20 MPa

Flexural strength under central load in
DRY conditions

17,22 MPa

Flexural strength under central load after
FREEZE/THAW test

11,50 MPa

Flexural strength under central load after
THERMAL SHOCK

11,10 MPa

Percentage of volume change after
84 frost cycles

18,33 %

Breaking load at dowel hole

2166,67 N

Sound speed propagation

5,51 Km/s

Rupture energy

2,83 J

Abrasion resistance

21,00 mm

Slip resistance in DRY conditions - Sawn

53,83 (coefficient of friction * 100)

Slip resistance in WET conditions - Sawn

68,67 (coefficient of friction * 100)