



Year: 2008

Reference standards: **EN 1469, EN 12057, EN 12058**

Products: **Slabs and/or modular tiles of natural stone for cladding and/or for floors & stairs.**

Commercial name: **Vratsa marble**
(origin: Vratsa – Bulgaria)

End use: **Internal & external wall and ceiling finishes. Internal & external floor finishing.**

DIONYSSOMARBLE S.A.

Head Office: 364 Kifissias Av. & 1 Delfon str., 15233 Chalandri, Athens/Greece

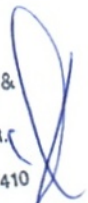
Producer /Supplier :

Characteristics	Declared values	Test method
Reaction to fire	Class A1	Without testing (see decision 96/603/EC, as amended)
Flexural strength	Lower expected value: 15.2 MPa Mean value: 18.8 MPa Standard deviation : 1.8 MPa	EN 12372
Resistance to fixings	Lower expected value: 1358 N Mean value: 1850 N Standard deviation: 251 N	EN 13364
Water absorption at atmospheric pressure	5.1 % per mass	EN 13755
Water absorption coefficient by capillarity	15.53 g / (m² x sec^{0,5})	EN 1925
Apparent density	2250 kg / m³ (mean value)	EN 1936
Open porosity	16.4 % per volume	EN 1936
Slip resistance	Non-polished: SRV_{dry}: 67 SRV_{wet}: 77 Polished: SRV_{dry}: 61 SRV_{wet}: 22	EN 14231
Abrasion resistance	19683 mm³ (loss in volume)	EN 14157 (method B)
Frost resistance	Flexural strength after 12 cycles: 18.4 MPa (2.13% decrease of strength)	EN 12371 & EN 12372
Frost resistance	Flexural strength after 48 cycles: 18.7 MPa (0.5% decrease of strength)	EN 12371 & EN 12372
Thermal shock resistance	After 20 cycles, Mean change in mass: -0.01% Mean change of dynamic elastic modulus: -34.9%	EN 14066 & EN 14146

September 12, 2008


Styliani Argyroudi
Vice Chairman of the Board

DIONYSSOMARBLE
DIONYSSOS PENTELICON COMMERCIAL &
INDUSTRIAL MARBLE CO. S.A.
364 KIFISSIAS AVE. & 1 DELFON STR.
HALANDRI - 152 33 - ATHENS - GR
TEL:0030 210 68 53 401 FAX:0030 210 68 53 410


Dimitra Alt
Chairman of the Board