



INSTITUTE OF GEOLOGY & MINERAL EXPLORATION

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TABLE OF PHYSICAL AND MECHANICAL PROPERTIES OF THE DOLOMITIC MARBLE WITH THE COMMERCIAL NAME "WHITE OF VOLAKAS"

(QUARRYING LOCATION: "Sornlalk", Volakas, Municipality of Prasotsani as quoted by the customer)

APPARENT SPECIFIC GRAVITY (DIN 52 102)	2825 kg/m ³
WATER ABSORPTION (DIN 52 103)	0,19 %
OPEN POROSITY (DIN 52 102)	0,54%
COMPRESSIVE STRENGTH - Dry condition (DIN 52 105)	138,6 N/mm ²
COMPRESSIVE STRENGTH - Wet condition (DIN 52 105)	145,9 N/mm ²
COMPRESSIVE STRENGTH AFTER FREEZE /THAW CYCLES (DIN 52104 & 52 105)	102,6 N/mm ²
FLEXURAL STRENGTH - Dry condition (DIN 52 112)	9,90 MPa
FLEXURAL STRENGTH - Wet condition (DIN 52 112)	10,76 MPa
MODULUS OF ELASTICITY (DIN 1048 / 1991)	35 GPa
ABRASION RESISTANCE (DIN 52 108)	2,20 mm
IMPACT STRENGTH (UNI-U 32.07.248.0)	59 cm
CHEMICAL ANALYSIS (Weight %)- CHEMISTRY DEPARTMENT	CaO:32,00, MgO:19,6, SiO ₂ :0,20, Fe ₂ O ₃ :<0,05, Al ₂ O ₃ :<0,05, K ₂ O:<0,01, Na ₂ O:0,01, LOI:46,9

1 N/mm² = 1 MPa

RESPONSIBLE FOR PHYSICAL AND MECHANICAL LABORATORY TESTS

Dr K. Laskaridis

Dr. M. Patronis

Laboratory tests were carried out by Kouseris (Tessalonika)



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