

Test Results of Denizli Travertine

TEST RESULTS OF THE PHYSICAL PARAMETERS

<i>Physical Properties</i>	<i>Unit</i>	<i>Range</i>	<i>Average Value</i>
Scratch hardness according to Mohs scale	Mohs	---	3.0
Real density	g/cm ³	---	2.560
Dry unit weight	g/cm ³	2.460 – 2.520	2.490
Saturated unit weight	g/cm ³	2.483 – 2.533	2.513
Water absorption at atmospheric pressure	(%)	0.754 – 1.211	0.933
Absorption by volume	(%)	1.907 – 3.015	2.338
Apparent porosity	(%)	1.907 – 3.015	2.338
Total porosity	(%)	2.169 – 3.796	2.971
Compacity	(%)	96.13 – 97.53	96.60
Water absorption coefficient by capillarity	(g/m ² .s ^{0.5})	NPD*	NPD*
Vertical abrasion resistance	(mm)	15.61 – 16.01	15.86
Reaction to fire	Class	---	A1

* This test don't be applied when apparent porosity less than 1 % according to TS EN 1469 (2006) standard.

TEST RESULTS OF THE MECHANICAL PARAMETERS

<i>Mechanical Properties</i>	<i>Unit</i>	<i>Range</i>	<i>Average Value</i>
Uniaxial compressive strength (dry condition)	MPa	72.56 – 96.84	85.27
Uniaxial compressive strength (saturated condition)	MPa	49.08 – 84.14	69.26
Uniaxial compressive strength after freezing	MPa	---	---
Flexural strength under concentrated load	MPa	10.54 – 12.43	11.28
Flexural strength under constant moment	MPa	9.49 – 11.67	10.62

PHOTOS:

