


Summary of laboratory test results				
Client Akrolithos S.A. Natural Stones Kipia Kavala 64100 Tel./Fax: 25920 51151 – 51400 – 24470 / 25920 51262		Report No 84/2011 Date 27/12/2013 Issue 2		
Project Kavala schist testing program		Project No 100311-E2		
Characteristics		Standard Test Method		Result
Calcium carbonate content	$CaCO_3$	EN 12326-2 §13	%	1,1
Noncarbonate carbon content	C		%	0,2
Apparent density	ρ_b		kg/m^3	2642,1
Open porosity	ρ_o	EN 1936	%	0,5
Real density	ρ_r		kg/m^3	2826,1
Total porosity	ρ		%	6,5
Water absorption at atmospheric pressure	A_b	EN 13755	%	0,3
Capillary absorption	C	EN 1925	$g/m^2 \sqrt{s}$	1,1
Water vapour permeability	δ	EN ISO 12572	$kg/m \cdot s \cdot Pa$	0,00004
Resistance to water vapour permeability coefficient	μ		-	375,3
Compressive strength (parallel to schistosity)	R	EN 1926	N/mm^2	226,57
	R		N/mm^3	189,42
Flexural strength (normal to schistosity)	R_{ff}	EN 12372	N/mm^2	33,10
Abrasion resistance		EN 14157 Μέθοδος B mod.	mm^3	7185,5
			mm	1,44
Slip resistance				
wet test	SRV	EN 14231		63,7
dry test				86,6
Breaking load at dowel hole	F	EN 13364	N	3023,7
SO ₂ exposure test		EN 12326-2 §15.1	Class	S2
Thermal shock resistance				
Mass change	Δm	EN 14066	%	0,0
Dynamic modulus of elasticity change	ΔEd		%	2,8
Frost resistance				
Mass change	Δm	EN 12371	%	0,1
Dynamic modulus of elasticity change	ΔEd		%	29,6
Compressive strength (parallel to schistosity)	R	EN 1926	N/mm^2	156,98
Thermal conductivity	λ_{10}	EN 12667 §9 mod.	W/mK	2,11
For GeoTerra Ltd				
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