RIWAL CERAMICHE S.P.A

Certificate

DATE:18/06/10

QUALITY TEST

Plant of Maranello	Ecogres Ceramic
ITEM:	SIZE: 30x60
SERIES: DOCKS	TRADEMARKS: ALFALUX

PHYSICAL PROPERTIES	ISO13006 Group Blb - Requirements	VALUE		
ISO 10545/3 WATER ABSORPTION	average value ≤3,0	2,09		
(%)	single value ≤3,3	2,11		
ISO 10545/4 MODULUS OF RUPTURE	average value ≥ 30	41,47		
(N/mm²)	single value ≥ 27	38,64		
ISO 10545/4 BREAKING STRENGHT	≥ 700 (thickness < 7,5 mm)	1997		
(N)	≥ 1100 (thickness ≥ 7,5 mm)	1661		
DIN 51130	TEST METHOD AVAILABLE	1		
ISO 10545/7 RESISTANCE TO SURFACE ABRASION CLASS 0-1-2-3-4-5	REPORT ABRASION CLASS	1		
ISO 10545/8 COEFFICIENT OF LINEAR THERMAL EXPANSION from 20°C to 100 °C (10°6.°C°1)	TEST METHOD AVAILABLE	6,63		
ISO 10545/14 RESISTANCE TO STAINS CLASS from 1 to 5	≥ 3	Chrome green in light oil lodine, alcoholic solution Olive oil	5 5 5	
ISO 10545/13 RESISTANCE HOUSEHOLD CHEMICALS AND SWIMMING POOL SALTS CLASS GA - GB - GC	min. GB	1day Amm. Chlor. 100g/l 1day Hypochl. sodium 20mg/l	GA GA	
ISO 10545/13 RESISTANCE TO ACIDS AND ALKALIS (low concentrations) CLASS GLA - GLB - GLC	Manufacturer to state classification	4days Hydrochloric acid 3% 1day Citric acid 100g/l 4days Potassium hydrox. 30g/l	GLA GLA	
RESISTANCE TO SOILS (internal test) CLASS from 1 to 4 *		1		

* Observation with microscope

- 1: it doesn't soil
- 2: slight microporosity
 3: plentiful microporosity
 4: it soils easily

SIGNATURE: Davide Gilli

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Date: 01/07/2010

DIN 51130 - DETERMINATION OF ANTI-SLIP PROPERTIES

For the samples marked: DOCKS 30x60		
ALFALUX	· · · · · · · · · · · · · · · · · · ·	
Surface characteristic:	X	Smooth
		Structured
Total average value	Gro	oup classification
from 6° to 10°		R9
from 10° to 19°		R10
from 19 to 27°]	R11
from 27° to 35°		R12
over 35°		R13
RESULTS:		
Average total acceptance angle:		6°
CLASSIFICATION:		
Group of ANTI-SLIP properties:		R9

FIRMA: Davide Gilli