NEPAL – TECHNICAL DATA

NUOVA RIWAL CERAMICHE S.R.L.

3/1/2014

DIN 51130 - DETERMINATION OF ANTI-SLIP PROPERTIES

For the samples marked:		
NEPAL		
ALFALUX		
Surface characteristic:		Smooth
	ш.	
	V	Structured
	X	Structureu
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° over 35°		R12 R13
0701 00		Kio
RESULTS:		
Average total acceptance angle:		10°
, werage tetar acceptance angle.		
CLASSIFICATION:		
CLASSIFICATION:		
Group of ANTI-SLIP properties:		R10
Free Property		

QUALITY TEST

Plant of Fiorano	Porcelain Stoneware
ITEM:	SIZE:
SERIES: NEPAL	TRADEMARKS:ALFALUX

PHYSICAL PROPERTIES	ISO13006 Group Bla - Requirements	VALUE		
ISO 10545/3 WATER ABSORPTION	average value ≤0,5	0.05		
(%)	single value < 0,6	0.07		
ISO 10545/4 MODULUS OF RUPTURE	average value > 35	51.47		
(N/mm²)	single value ≥ 32	48.76		
ISO 10545/4 BREAKING STRENGHT	> 700 (thickness < 7,5 mm)	2397		
(N)	≥ 1300 (thickness ≥ 7,5 mm)	2391		
EN 101 SCRATCH HARDNESS		I		
Scale Mohs from 1 to 10	<u>></u> 5			
ISO 10545/6 RESISTANCE TO DEEP				
ABRASION	175 max	118		
mm³				
ISO 10545/8 COEFFICIENT OF LINEAR				
THERMAL EXPANSION from 20°C to 100 °C	TEST METHOD AVAILABLE	6.23		
(10 ^{-€} .°C ⁻¹)				
ISO 10545/14 RESISTANCE TO STAINS		Chrome green in light oil	5	
CLASS from 1 to 5	<u>≥</u> 3	lodine, alcoholic solution	5	
		Olive oil	5	
ISO 10545/13 RESISTANCE HOUSEHOLD CHEMICALS		1day Amm. Chlor. 100g/l	GA	
AND SWIMMING POOL SALTS	min. GB			
CLASS GA-GB-GC		1day Hypochl. sodium 20mg/l	GA	
ISO 10545/13 RESISTANCE TO ACIDS		4days Hydrochloric acid 3%	GLA	
AND ALKALIS (low concentrations)	Manufacturer to state classification	1day Citric acid 100g/l	GLA	
CLASS GLA-GLB-GLC		4days Potassium hydrox. 30g/l	GLA	
RESISTANCE TO SOILS (internal test)		4		
CLASS from 1 to 4 *		1		

SMITH-EMERY LABORATORIES An Independent Commercial Testing Laboratory, Established 1904

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*Revised & Reissued October 5, 2004

September 29, 2004

Proj./Job No.: 34305-1 Lab No .: T-04-196

Client:

ALFA CERAMICHE ATTN: BORIS ABATI VIA DELLA REPUBLICA 16

42010 ROTEGLIA DI CASTELLARANO RE

ITALY

Subject:

*17 - 3/4" x 17 - 3/4" Porcelain Tiles: Series; Nepal; Color: Raja Red

Specification: ASTM C 1028-96

Source: Submitted to Smith-Emery Laboratories by Client.

STATIC COEFFICIENT OF FRICTION (ASTM C 1028-96)

A block of wood with a 3" x 3" x 1/8" section of standard neolite sole liner attached, was placed on the surface to be tested; on top of this assembly, a 50 pound (22kg) weight was placed. Using dynamometer, the force in pounds required to cause the test assembly to slip parallel to the test surface was measured . Four measurements were taken on each of three test surfaces, each measurement perpendicular to the previous one. The twelve measurements were averaged to obtain the coefficient of friction for each test condition.

A. As Receive	<u>d:</u> Test Condition	Tile No.	N	E	s	w	Average	Individual Static Coefficient of Friction (fc)	S.C.O.F After Noelite Correction Factor
								•	
	Dry Neolite	1	40	41	39	40	ì		
		2	39	40	41	40	39.67	(0.77)	0.74
		3	38	40	39	39]		
	Wet Neolite	1	37	36	34	34			
		2	36	35	36	35	35.08	(0.68)	0.64
		3	35	34	35	34			
B After Cleaning with Hillyards Renovator. (ASTM C 1028 Standard Cleaner)									

B Afte

Dry Neolite	I	43	42	43	41			
•	2	42	43	42	42	42.25	(0.82)	0.79
	3	43	42	41	43			
Wet Neolite	1	36	35	34	35			
	2	34	35	34	35	34.67	(0.68)	0.64
	3	35	34	35	34			

Respectfully Submitted,

SMITH - EMERY LABOR

P. John Latiolait Registered Civil Engineer N Registration Expires: 6-30-0

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Specification: Department of Justice ADA Title III Regulation 28 CFR Part 36, Section A4.5.1; Recommends minimum of 0.60 SCOF for horizontal surfaces and 0.80 SCOF on ramps.

> Materials Tested Comply With Specifications. ☑ Horizontal; ☐ Ramps or Incline

☐ Materials Tested Did Not Comply With Specifications.

□ No Established Criteria for Acceptable Limits.

Page 1 of 1

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