



# SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory

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Project/Job No.: 37286-1  
Laboratory No.: T-11-126

December 14, 2011

Client : TEY SHEN MAI  
**UNICORN TILE CORP**  
2020 ORANGETHORPE AVENUE  
ANAHEIM, CA 92806

Subject: **Corona Series/Color Dove/Size: 12" x 24"/Glazed Porcelain Tiles**  
Specification: ASTM C 1028-07  
Source: Delivered by Client on November 30, 2011 to Smith Emery Laboratories.

### STATIC COEFFICIENT OF FRICTION (ASTM C 1028-07)

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 Received:

Test Condition	Tile No.	N	E	S	W	Average	Individual	S.C.O.F
							Coefficient of Friction (fc)	After Noelite Correction Factor
Dry Neolite	1	46	47	46	46	46.17	(0.90)	0.89
	2	47	45	46	46			
	3	46	46	47	46			
Wet Neolite	1	33	34	33	32	33.00	(0.64)	0.56
	2	33	33	32	33			
	3	33	34	33	33			

#### B. After Cleaning with Hillyards Renovator. (ASTM C 1028 Standard Cleaner)

Dry Neolite	1	47	46	45	46	45.83	(0.89)	0.88
	2	46	45	46	46			
	3	46	46	45	46			
Wet Neolite	1	33	33	34	32	33.00	(0.64)	0.56
	2	34	33	33	32			
	3	33	34	32	33			

Respectfully Submitted,  
**SMITH - EMERY LABORATORIES**

P. John Latiolait  
Registered Civil Engineer No. C60312  
Registration Expires: 06-30-12

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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.
  - For Information Only.

CC:UNICORN TILE CORP; SMITH-EMERY LABORATORIES

F:\PHYLAB\2011\37286 Unicorn Tile Corp\Job\T-11-126 STATIC COEFFICIENT OF FRICTION (SKID)

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