



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

781 E. Washington Boulevard Los Angeles, California 90021 ♦ (213) 749-3411 ♦ Fax (213) 741-8626

Project/Job No : 37139-1
Laboratory No : T-07-255A

December 26, 2007
*Revised and Reissued on February 27, 2008

Client : GREG FILLO
BEDROSIANS
1515 E. WINSTON ROAD
ANAHEIM, CA 92805-6445

Subject: 12" x 24" TCR CON 36C, Contempo Field Tile "Copper" Glazed Porcelain Tile Made in China*
Specification: ASTM C 1028-06
Source: Submitted to Smith-Emery Laboratories by Client.

STATIC COEFFICIENT OF FRICTION (ASTM C 1028-06)

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:

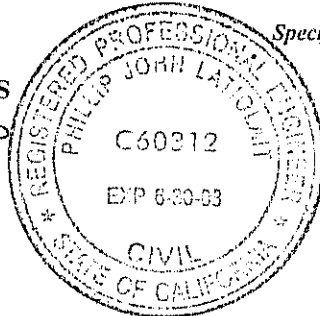
Test Condition	Tile No.	N	E	S	W	Average	Individual	S.C.O.F
							Coefficient of Friction (fc)	After Neolite Correction Factor
Dry Neolite	1	42	42	43	42	41.83	(0.82)	0.83
	2	42	41	42	41			
	3	43	42	41	41			
Wet Neolite	1	34	33	34	33	33.17	(0.65)	0.65
	2	33	33	33	33			
	3	33	33	33	33			

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

Dry Neolite	1	42	43	42	42	42.42	(0.83)	0.84
	2	43	42	43	42			
	3	43	43	42	42			
Wet Neolite	1	34	33	34	33	33.33	(0.65)	0.65
	2	33	33	34	34			
	3	33	33	33	33			

Respectfully Submitted,
SMITH - EMERY LABORATORIES

P. John Latiolait
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Registered Civil Engineer No. C60312
Registration Expires: 06-30-08



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.

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Subject: TCR CON 36 C 12" x 24" Contempo Field Tile "Copper" Glazed Porcelain Tiles Made in China
Specification: ASTM C 373
Source: Submitted to Smith-Emery Laboratories by Client.

Report of Test

Water Absorption Test (ASTM C 373)

Samples were dried to a constant weight in an oven at 150 °C, then cooled and weighed. Then were immersed in distilled water (boiling vigorously for 5 hours before cooling gradually to a total elapsed time of 29 hours). Samples were removed from water, wiped dry and immediately reweighed.

Sample No.	Dry Wt. (grams)	Wet Wt. (grams)	Percent Water Absorption	Average
1	515.6	516.4	0.16%	
2	500.0	501.1	0.21%	
3	517.9	518.9	0.18%	<u>0.20%</u>
4	504.2	505.3	0.23%	
5	489.3	490.4	0.23%	

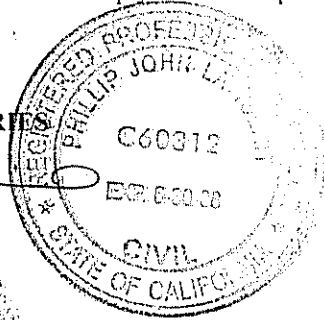
Requirements: ANSI A 137.1 (General) - When tested as described in ASTM C 373, the tile in the sample shall be impervious for porcelain paver tile and shall be impervious, vitreous or semi-vitreous for natural clay paver tile

- Impervious Tile (0.5% or less Wtr. Abs.)
- Vitreous Tile (0.5%-3.0% Wtr. Abs.)
- Semi-Vitreous Tile (3.0%-7.0% Wtr. Abs.)
- Unglazed Quarry Tile (Max. 5.0% Wtr. Abs.)

Remarks: Samples tested comply with the Impervious Tile Requirement

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SUBJECT: 12" x 24" TCR CON 36 C Contempo Field Tile "Copper" Glazed Porcelain Tiles Made in China
Specification: MOHS Hardness Test (MOHS Scale)
Source: Submitted to Laboratory by Client.

Report of Tests

SCRATCH HARDNESS OF SURFACE (MOHS SCALE)

A sharp angular mineral starting with hardness one (1) on the MOHS Scale is drawn while applying a uniform pressure across the surface of the tile. The highest hardness number with which no scratches visible to the naked eye occur shall be taken as the result of the test.

AREA	SAMPLE NUMBER	MOHS SCALE	MINERAL EQUIVALENT
Top Surface Only	1	7.5	Quartz/Topaz
	2	7.5	Quartz/Topaz
	3	7.5	Quartz/Topaz
	4	7.5	Quartz/Topaz
	5	7.5	Quartz/Topaz

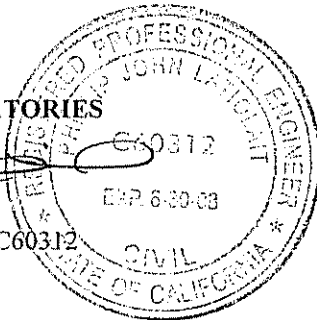
MOHS Table

Mohs #	Mineral	Mohs #	Mineral
1.0	Talc	6.0	Microcline
2.0	Selenite	7.0	Quartz
3.0	Calcite	8.0	Topaz
4.0	Fluorite	9.0	Corundum
5.0	Apatite	10.0	Diamond

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