



SMITH-EMERY LABORATORIES

An Independent Commercial Testing Laboratory

781 E Washington Boulevard - 2nd Floor Los Angeles, California 90021 ♦ (213) 745-5333 ♦ Fax (213) 749-7232

Project/Job No: 37139-1
Laboratory No: T-10-079

July 8, 2010
Order No. 96010758401

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

Subject: TCR Fan50A 20" x 20" Field Tile Fantasia-Almond Porcelain Tile Crest
Specification: ASTM C 1028-07
Source: Delivered by Client on June 9, 2010 Via Con. Way to Smith Emery Labs.

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 Neolite Correction Factor
Dry Neolite	1	47	46	47	47	46.67	(0.91)	0.87
	2	46	47	47	47			
	3	47	47	46	46			
Wet Neolite	1	35	35	34	35	34.75	(0.68)	0.61
	2	35	34	36	34			
	3	35	36	34	34			

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

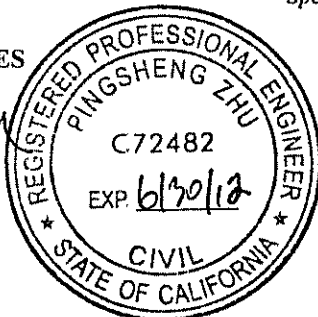
Dry Neolite	1	47	46	46	47	46.42	(0.91)	0.87
	2	46	46	47	46			
	3	47	46	46	47			
Wet Neolite	1	35	34	35	34	34.58	(0.67)	0.60
	2	34	34	35	35			
	3	35	35	34	35			

Specification: Department of Justice ADA Title III Regulation 28 CFR Part 36, Section A4.5 I; Recommends minimum of 0.60 SCOF for horizontal surfaces and 0.80 SCOF on ramps.

Respectfully Submitted,
SMITH - EMERY LABORATORIES

Pingsheng Zhu
Registered Civil Engineer No. C72482
Registration Expires: 06-30-12

dp



- 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:BEDROSIANS; SMITH-EMERY LABORATORIES

F:\PHYLAB\2010\37139 Bedrosians\Job 1\T-10-079 STATIC COEFFICIENT OF FRICTION (SKID)

Page 3 of 11



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

SUBJECT: TCR Fan50A 20" x 20" Field Tile Fantasia Almond Porcelain Tile Crest
Specification : MOHS Hardness Test (MOHS Scale)
Source : Delivered by Client on June 9, 2010 Via Con Way to Smith Emery Labs.
Date Tested: 6/24/2010

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	5 0	Apatite
	2	5 0	Apatite
	3	5 0	Apatite
	4	5 0	Apatite
	5	5 0	Apatite

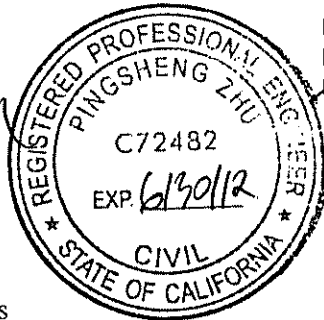
MOHS Table

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

Respectfully Submitted,

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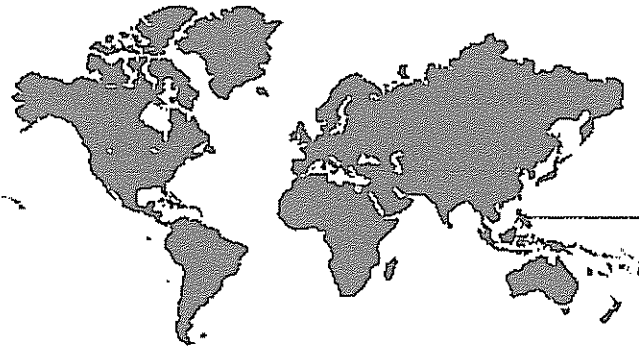
Pingsheng Zhu
Registered Civil Engineer No C72482
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- Materials Tested Comply With Specifications.
- Materials Tested Did Not Comply With Specifications.
- No Established Criteria For Acceptable Limits.

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CC:BEDROSIANS: SMITH-EMERY LABORATORIES



TEI-TestingSM SERVICES

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BEDROSIANS TILE AND MARBLE
1515 EAST WINSTON ROAD
ANAHEIM CA 92805-6445
USA

Analysis No	TS-S&T 01032
Report Date	28 June 2010
Date Sampled	08 June 2010
Where Quarried/Fabricator	Unknown
Where Sampled	Anaheim, CA USA
Sample Received	10 June 2010
Sampled By	Client

This is to attest that we have examined: Manufactured Material identified: Porcelain Tile TCR FAN50A TILECREST FANTASIA PORCELAIN ALMOND 20 X 20 FIELD TILE

When examined to the applicable requirements of:

ASTM C1027-09	"Standard Test Method for Determining Visible Abrasion Resistance of Glazed Ceramic Tile"
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The above identified material had the following values:

Visible Abrasion Resistance	Class V
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The attached Report of Test is an integral portion of this summation certificate

END OF ANALYSIS

Merrill Gee P.E. – Engineer in Charge