



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. 96010758501

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

Subject: TCR Fan50P 20" x 20" Field Tile Fantasia Pecan 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	48	47	47	47.25	(0.92)	0.88
	2	48	47	47	47			
	3	47	48	47	47			
Wet Neolite	1	37	36	35	36	36.08	(0.70)	0.63
	2	37	35	36	36			
	3	36	37	36	36			

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

Dry Neolite	1	47	47	46	47	47.08	(0.92)	0.88
	2	47	48	47	47			
	3	48	47	47	47			
Wet Neolite	1	36	35	35	36	35.75	(0.70)	0.63
	2	35	37	36	36			
	3	35	37	36	35			

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.

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)

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

SUBJECT: **TCR Fan50P 20" x 20" Field Tile Fantasia Pecan 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
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	1	50	Apatite
	2	50	Apatite
Top Surface Only	3	50	Apatite
	4	50	Apatite
	5	50	Apatite

MOHS Table

Mohs #	Mineral	Mohs #	Mineral
10	Talc	60	Microcline
20	Selenite	70	Quartz
30	Calcite	80	Topaz
40	Fluorite	90	Corundum
50	Apatite	100	Diamond

Respectfully Submitted,
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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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|||||
BEDROSIANS TILE AND MARBLE
1515 EAST WINSTON ROAD
ANAHEIM CA 92805-6445
USA

Analysis No. TS-S&T 01029
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 FAN50P TILECREST FANTASIA PORCELIAN PECAN 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"

The above identified material had the following values:

Visible Abrasion Resistance Class V

The attached Report of Test is an integral portion of this summation certificate.

END OF ANALYSIS


Merrill Gee P.E. – Engineer in Charge

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