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

Proj. No.:

40531-1

February 17, 2012

Lab No.:

T-12-003

Client:

GREG HEYDENREICH

TERRATILE

239 CALLE CAMPESINO SAN CLEMENTE, CA 92672

Subject:

11-3/4" x 11-3/4" x 7/16" Thick Terratile, Red

Specification: ASTM C 674 (Adapted Test Method)

Source:

Submitted to Smith-Emery Laboratories by Client on January 9, 2012.

MODULUS OF RUPTURE OF CERAMICS (ASTM C 674 * Modified)

Samples were * cut to 5" x 1" x thickness and dried at 300°F for 24 hours. After cooling in an uncharge dessicator at room temperature, samples were tested with results as follows.

REPORT OF TEST

Tile Number	Width Avg. (in.)	Thick Avg. (in.)	Load (lbs.)	Modulus of Rupture (PSI)	
	0.000	0.414	115		
<i>1</i> .	0.998	0.414	115	4,034	
<i>2</i> .	0.998	0.412	124	4,392	
3.	0.994	0.415	136	4,767	
4.	0.999	0.407	118	4,278	
5.	1.011	0.407	123	4,407	
6.	1.030	0.407	125	4,396	
7.	0.997	0.415	115	4,018	
· 8.	0.999	0.408	134	4,835	
9.	0.996	0.407	123	4,473	
10.	0.988	0.407	117	4,289	

Average, PSI:

Remarks: No ANSI A 137.1 requirements

(Maximum Span: 4.0 in.)

4,376

(*Samples should be 1" x 0.5" x 5" pressed, molded and fired with the rest of the batch.)

Respectfully Submitted,

SMITH-EMERY LABORATOR

G. Janeth Quintero

Registered Civil Engineer No Registration Expires: 12

mc

- ☐ Materials Tested Comply With Specifications.
- ☐ Materials Tested Did Not Comply With Specifications.
- ☐ No Established Criteria For Acceptable Limits.
- ☐ For Information Only.

Cc: TERRATILE; SMITH-EMERY LABORATORIES

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TERRATILE

239 CALLE CAMPESINO SAN CLEMENTE, CA 92672

Subject:

11-3/4" x 11-3/4" x 7/16" Thick Terratile, Red

Specification:

ASTM C 648

Source:

Submitted to Smith-Emery Laboratories by Client on January 9, 2012.

REPORT OF TEST

BREAKING STRENGTH (ASTM C 648)

The tile samples were placed on a test fixture having three (3) supports located in a circle three and fifteen-thirty-secondths (3-15/32) inches in diameter with the load applied at the center as per specifications. *Results are as follows:*

Sample Number	Breaking Load (Lbs.)
<i>1</i> .	606
<i>2.</i>	551
<i>3.</i>	544
4.	614
5.	569
6.	598
7.	558
8.	588
9.	544
10.	538
	Average: 571

Requirements: ANSI A 137.1 (General) Breaking Strength. When tested as described in ASTM C-648, the average breaking strength shall be 250 pounds or greater.

Respectfully Submitted,

SMITH - EMERY LABORATORIES

G. Janeth Quintero

Registered Civil Engineer No.

Registration Expires: 12-3

C 73066 0 EXP 12-31-12 The materials tested comply with specifications.

☐ The materials tested did not comply with specifications.

☐ No established criteria for acceptable limits.

 \square For Information Only.

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SMITH-EMERY LABORATORIES



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Project/Job No.: 40531-1 Laboratory No.: T-12-003 February 17, 2012

Client:

GREG HEYDENREICH

TERRATILE

239 CALLE CAMPESINO SAN CLEMENTE, CA 92672

Subject:

11-3/4" x 11-3/4" x 7/16" Thick Terratile, Red

Specification:

ASTM C 1028-07

Source:

Submitted to Smith-Emery Laboratories by Client on January 9, 2012.

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 Static Coefficient of Friction (fc)	S.C.O.F After Noelite Correction Factor
		1					1		
	Dry Neolite	1	46	47	46	_47			
		2	47	46	46	46	46.33	(0.90)	0.90 .
		3	46	47	46	46			
				•					
	Wet Neolite	1	41	40	40	41			
•	•	2	41	41	40	41	40.50	(0.79)	0.71
		3	40	41	40	40			
B After Cleaning	with Hillyards	Renova	itor. (AS	TM <u>C</u> 102	28 Stando	ard Clean	<u>er)</u>		

Dry Neolite	1	46	47	46	46			
	2	46	45	45	47	46.00	(0.90)	0.90
	3	46	46	47	45			
Wet Neolite	1	40	41	40	40 .			
	2	41	39	40	40	40.00	(0.78)	0.70
	3	40	40	39	40			

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 LABORATOR

G. Janeth Quintero Registered Civil Engineer No.

Registration Expires: 12-31/-

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: TERRATILE; SMITH-EMERY LABORATORIES

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