



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

Proj./Job No.: 37286-1
Lab No.: T-08-205

October 6, 2008

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

Subject: **12" x 12" 3/8" Thick Nano White Matte Finish. Unglazed Ceramic Tile.**
Specification: ASTM C 648
Source: Submitted to Laboratory by Client on September 12, 2008.

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:*


<u>Sample Number</u>	<u>Breaking Load (Lbs.)</u>
1.	557
2.	603
3.	522
4.	620
5.	585
6.	583
7.	533
8.	589
9.	598
10.	560

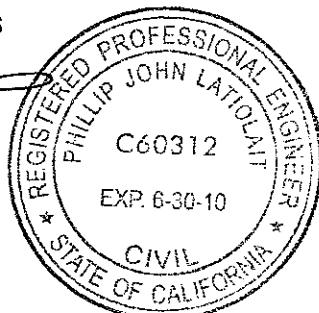
Average: 575

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


P. John Latiolait
Registered Civil Engineer No. C60312
Registration Expires: 06-30-10



- The materials tested comply with specifications.
- The materials tested did not comply with specifications.
- No established criteria for acceptable limits.

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CC: UNICORN TILE CORP;SMITH-EMERY LABORATORIES



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<u>Sample Number</u>	<u>Breaking Load (Lbs.)</u>
1.	651
2.	602
3.	763
4.	795
5.	720
6.	784
7.	718
8.	624
9.	672
10.	656

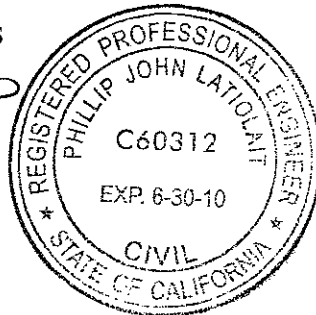
Average: 699

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,

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TorTestSM Floor Friction Testing Service
SOTTER ENGINEERING CORPORATION
Consultants

Licensed by the State of California
Board of Professional Engineers and
Land Surveyors

26705 Loma Verde, Mission Viejo, CA 92691
Telephone/FAX: 949-582-0889

Flooring Test Results

Client: **Unicorn Tile Corp.**

Report date: March 24, 2009

Flooring: **Nano Black Matte**

Page 1 of 2

Sample no.: 0903-1813

Pieces tested: 3

Date tested: 3/19/09

Size: 12 inches x 12 inches

How and when sample obtained: Supplied by client 3/18/09

American Society for Testing and Materials method ASTM C 1028-07. This test does not evaluate hydroplaning potential.

Static coefficient of friction:

CLEANED WITH HILLYARD'S RENOVATOR

Dry

Wet

0.65

0.45

High coefficients of friction indicate potentially good traction. The Access Board of the U.S. Department of Justice, the Ceramic Tile Institute, and the City of Los Angeles, recommend a **minimum** static coefficient of friction, as assessed using this test method, of **0.60 for level floors** and **0.80 for ramps**. Slip resistance can be affected by maintenance-related items including floor coatings, buffing, and contamination.

*This test report shall not be reproduced, except in full,
without the written approval of Sotter Engineering Corporation.*

Flooring: **Nano Black Matte**

Individual test values (for information only; required by ASTM and City of Los Angeles):

CLEANED WITH HILLYARD'S RENOVATOR

	<u>Dry</u>	<u>Wet</u>
1	0.68	0.49
2	0.64	0.46
3	0.64	0.48
4	0.68	0.45
5	0.61	0.43
6	0.65	0.46
7	0.65	0.44
8	0.64	0.45
9	0.63	0.44
10	0.67	0.43
11	0.66	0.44
12	0.65	0.45
Average	0.65	0.45

Respectfully submitted,
SOTTER ENGINEERING CORPORATION



J. George Sotter, P.E., Ph.D.
President, Sotter Engineering Corporation



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TorTestSM Floor Friction Testing Service
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Telephone: 949-582-0889 FAX: 949-916-2193

*Licensed by the State of California
Board of Professional Engineers and
Land Surveyors*

Flooring Slip Resistance Test Results

Client: **Unicorn Tile Corp**

Report date: 9/20/05

Flooring: **Nano Black Matte**

Page 1 of 1

Sample no.: 0903-1813

Pieces tested: 3

Date tested: 3/24/09

Size: 12 inches x 12 inches

How and when sample obtained: Supplied by client 3/18/09

Ceramic Tile Institute of America pendulum test based on ASTM E 303

Pendulum Test Value, as received, with Four S rubber slider:

Dry: 68

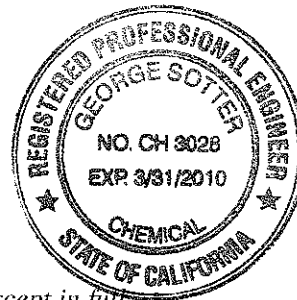
Wet: 36

High Pendulum Test Values indicate potentially good traction. The Ceramic Tile Institute of America recommends a **minimum** pendulum test value of **35** for level floors when determined using a Four S (Standard Shoe Sole Simulating) rubber. Slip resistance can be affected by factors such as floor coatings, detergents, contamination, chemical treatments, and wear.

Respectfully submitted,
SOTTER ENGINEERING CORPORATION

George Sotter

J. George Sotter, P.E., Ph.D.
President



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Flooring Test Results

Client: **Unicorn Tile Corp.**

Report date: March 24, 2009

Flooring: **Nano White Matte**

Page 1 of 2

Sample no.: 0903-1814

Pieces tested: 3

Date tested: 3/19/09

Size: 12 inches x 12 inches

How and when sample obtained: Supplied by client 3/18/09

American Society for Testing and Materials method ASTM C 1028-07. This test does not evaluate hydroplaning potential.

Static coefficient of friction:

CLEANED WITH HILLYARD'S RENOVATOR

Dry

Wet

0.71

0.60

High coefficients of friction indicate potentially good traction. The Access Board of the U.S. Department of Justice, the Ceramic Tile Institute, and the City of Los Angeles, recommend a **minimum** static coefficient of friction, as assessed using this test method, of **0.60 for level floors** and **0.80 for ramps**. Slip resistance can be affected by maintenance-related items including floor coatings, buffing, and contamination.

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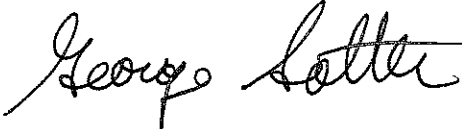
Flooring: **Nano White Matte**

Individual test values (for information only; required by ASTM and City of Los Angeles):

CLEANED WITH HILLYARD'S RENOVATOR

	<u>Dry</u>	<u>Wet</u>
1	0.73	0.62
2	0.70	0.63
3	0.72	0.61
4	0.67	0.62
5	0.72	0.59
6	0.72	0.61
7	0.68	0.58
8	0.70	0.62
9	0.68	0.56
10	0.74	0.62
11	0.73	0.60
12	0.71	0.57
Average	0.71	0.60

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Flooring Test Results

Client: **Unicorn Tile Corp.**

Report date: March 24, 2009

Flooring: **Nano White Polished**

Page 1 of 2

Sample no.: 0903-1812

Pieces tested: 3

Date tested: 3/19/09

Size: 12 inches x 12 inches

How and when sample obtained: Supplied by client 3/18/09

American Society for Testing and Materials method ASTM C 1028-07. This test does not evaluate hydroplaning potential.

Static coefficient of friction:

CLEANED WITH HILLYARD'S RENOVATOR

Dry

Wet

1.08

0.37

High coefficients of friction indicate potentially good traction. The Access Board of the U.S. Department of Justice, the Ceramic Tile Institute, and the City of Los Angeles, recommend a **minimum** static coefficient of friction, as assessed using this test method, of **0.60 for level floors** and **0.80 for ramps**. Slip resistance can be affected by maintenance-related items including floor coatings, buffing, and contamination.

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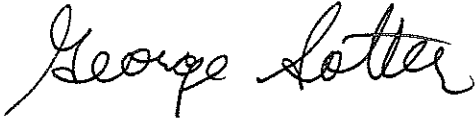
Flooring: **Nano White Polished**

Individual test values (for information only; required by ASTM and City of Los Angeles):

CLEANED WITH HILLYARD'S RENOVATOR

	<u>Dry</u>	<u>Wet</u>
1	1.01	0.35
2	1.08	0.40
3	1.11	0.39
4	1.02	0.40
5	1.03	0.44
6	1.15	0.39
7	1.08	0.46
8	1.06	0.36
<hr/>		
9	1.04	0.31
10	1.17	0.32
11	1.10	0.35
12	1.10	0.34
Average	1.08	0.37

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Flooring Test Results

Client: **Unicorn Tile Corp.**

Report date: March 19, 2009

Flooring: **Nano Black Polished**

Page 1 of 2

Sample no.: 0903-1811

Pieces tested: 3

Date tested: 3/19/09

Size: 12 inches x 12 inches

How and when sample obtained: Supplied by client 3/18/09

American Society for Testing and Materials method ASTM C 1028-07. This test does not evaluate hydroplaning potential.

Static coefficient of friction:

CLEANED WITH HILLYARD'S RENOVATOR

Dry

Wet

0.69

0.52

High coefficients of friction indicate potentially good traction. The Access Board of the U.S. Department of Justice, the Ceramic Tile Institute, and the City of Los Angeles, recommend a **minimum** static coefficient of friction, as assessed using this test method, of **0.60 for level floors** and **0.80 for ramps**. Slip resistance can be affected by maintenance-related items including floor coatings, buffing, and contamination.

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Flooring: **Nano Black Polished**

Individual test values (for information only; required by ASTM and City of Los Angeles):

CLEANED WITH HILLYARD'S RENOVATOR

	<u>Dry</u>	<u>Wet</u>
1	0.65	0.66
2	0.80	0.56
3	0.71	0.56
4	0.60	0.64
5	0.66	0.56
6	0.68	0.52
7	0.69	0.43
8	0.61	0.52
9	0.72	0.46
10	0.75	0.42
11	0.68	0.46
12	0.65	0.42
Average	0.69	0.52

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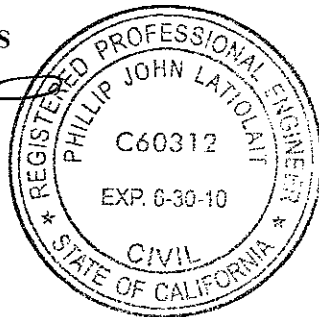
<u>Sample Number</u>	<u>Breaking Load (Lbs.)</u>
1.	602
2.	575
3.	534
4.	529
5.	570
6.	580
7.	551
8.	575
9.	563
10.	585
Average:	566

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.

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Committed to Quality

CRT LABORATORIES, INC.

1680 North Main Street, Orange, CA 92867

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FOR: Unicorn Tile Corporation
2020 E. Orangethorpe Avenue
Anaheim, CA 92806
Tel: (714) 728-1529 / Fax: (714) 525-1133
ATTN: Mr. Ashok Sheth

LWR NO.: 17683 DATE: July 28, 2008

TABLE 2
SCOPE: ASTM C 373-88 Water Absorption

Sample: Nano Black Polished (4)			
Specimen	Before	After	% Change
1	73.8331	73.8633	0.04
2	72.0088	72.0319	0.03
3	72.3319	72.3609	0.04
4	70.4671	70.4937	0.04
5	70.8019	70.8280	0.04
Average	71.8886	71.9156	+ 0.04

Sample: Travertino Rustic (5)			
Specimen	Before	After	% Change
1	54.5183	55.5792	1.95
2	54.1079	55.1735	1.97
3	53.7430	54.9222	2.19
4	53.8881	55.0172	2.10
5	55.9087	56.4025	0.88
Average	54.4332	55.4189	+ 1.82

Sample: Mateo Rustic (6)			
Specimen	Before	After	% Change
1	58.9650	60.5760	2.73
2	57.6905	59.5855	3.28
3	58.5662	60.2652	2.90
4	57.5102	59.3212	3.15
5	57.5666	59.2716	2.96
Average	58.0597	59.8039	+ 3.01

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