

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

Certified by City of Los Angeles for  
Slip Resistance Testing of Flooring

**TorTest<sup>SM</sup> Floor Friction Testing Service**  
**SOTTER ENGINEERING CORPORATION**  
Consultants

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

## Flooring Test Results

Client: **Import Ceramic Tile, Inc.**

Report date: February 23, 2002

Flooring: **Terrastone Navajo Antigua and Terrastone Terracotta antigua, mixed**

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Sample no.: 0202-2213

Pieces tested: 3

Date tested: 2/22/02

Size: 11 1/2 inches x 5 1/2 inches

How and when sample obtained: Selected at random from tiles supplied by client 2/22/02

American Society for Testing and Materials method ASTM C 1028-96

### Static coefficient of friction:

CLEANED WITH HILLYARD'S RENOVATOR

Dry

Wet

**0.80**

**0.80**

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: **Terrastone Navajo Antigua and Terrastone Terracotta antigua, mixed**

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	0.79	0.68
2	0.71	0.75
3	0.81	0.84
4	0.78	0.86
5	0.85	0.79
6	0.80	0.79
7	0.81	0.86
8	0.75	0.90
9	0.77	0.80
10	0.84	0.84
11	0.81	0.73
12	0.84	0.79
<b>Average</b>	<b>0.80</b>	<b>0.80</b>

Respectfully submitted,  
SOTTER ENGINEERING CORPORATION



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

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