



PRODUCT TESTING SERVICE

100 Clemson Research Blvd. □ Anderson, SC 29625 □ Tel (864) 646-TILE □ Fax (864) 646-2821

October 29, 2013

MS International, Inc.
Attn: Morgan Huang
2095 N. Batavia St.
Orange, CA 92865

Dear Morgan Huang,

Tile Council of North America has tested the samples you submitted. Test report TCNA-677-13 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

TILE COUNCIL OF NORTH AMERICA, INC.

Dr. Jyothi Rangineni
Research Scientist
Enclosures



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TCNA TEST REPORT NUMBER:

TCNA-677-13

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TEST REQUESTED BY:

MS International, Inc.
Attn: Morgan Huang
2095 N. Batavia St.
Orange, CA 92865

TEST SUBJECT MATERIAL:

Identified by client as: "Sophie Line"

TEST DATE:

10/24/2013

TEST PROCEDURE:

ASTM C1028: "Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method"

-A Chatillon DFIS 100 digital force gauge was used to measure each pull in pounds-force.

-A 3 x 3 x 1/8-inch piece of Neolite was used as the sensor.

TEST RESULTS:

The average static coefficient of friction of four (4) pulls on each tile was as follows:

	<u>As Received</u>	<u>After Cleaning</u>
<u>Tile 1</u>		
Dry	0.76	0.76
Wet	0.57	0.56
<u>Tile 2</u>		
Dry	0.76	0.77
Wet	0.56	0.57
<u>Tile 3</u>		
Dry	0.76	0.77
Wet	0.56	0.56

The average static coefficient of friction of twelve (12) pulls was as follows:

	<u>As Received</u>	<u>After Cleaning</u>
Dry	0.76	0.76
Wet	0.56	0.56

10/29/2013

Dr. Jyothi Rangineni
Research Scientist

Testing Services: testing@tileusa.com □ Literature Orders: literature@tileusa.com □ Web Site: www.tileusa.com

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