



PRODUCT TESTING SERVICE

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

3/18/2013

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-101-13 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

TILE COUNCIL OF NORTH AMERICA, INC.

Katelyn Simpson
Laboratory Manager
Enclosures



PRODUCT TESTING SERVICE

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

TCNA TEST REPORT NUMBER: TCNA-101-13 PAGE: 1 OF 1

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

TEST SUBJECT MATERIAL: Identified by client as: “Dimensions Line”

TEST DATE: 3/13/2013 - 3/14/2013

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:

	As Received	After Cleaning
<u>Tile 1</u>		
Dry	0.78	0.79
Wet	0.63	0.64
<u>Tile 2</u>		
Dry	0.78	0.78
Wet	0.64	0.63
<u>Tile 3</u>		
Dry	0.79	0.78
Wet	0.63	0.63

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

	As Received	After Cleaning
Dry	0.78	0.78
Wet	0.63	0.63

Katelyn Simpson
Laboratory Manager

3/18/13