

Construction Testing Laboratories Limited

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December 31, 2008

Report No.: MS08-18

MS International Inc. 2095 N Batavia Street Orange, California 92865 Fax: 714-685-7600

Attention: Mr. Ruben Balingit
Subject: Slip Resistance of Woodstone Oak Tiles
Reference Determining the Co-Efficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method (ASTM C 1028-96)

Dear Ruben,

1.0 Introduction

On December 20, 2008, Construction Testing Laboratories Limited received samples of Woodstone Oak Tiles for the purpose of determining the static coefficient of friction.

2.0 Procedure

The Neolite friction material was prepared as instructed by the Standard by sanding with 400 grit silica paper. The Neolite surface was re-sanded after each separate step of the procedure. Calibration of the Neolite heel assembly was then performed using the ASTM C 1028 Standard Tile in dry and then wet condition in order to determine the dry and wet calibration factors. Testing was then accomplished on the sample by performing four pulls, with each pull being 90° from the previous pull. The samples were tested in "dry" condition followed by testing in "wet" condition. The samples were then cleaned with Hillyard's Renovator solution and retested.

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3.0 Test Results

The static coefficient of friction results are listed on the table below.

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Samples	Calibration Factor		As Received Tiles		Cleaned Tiles		Average Coefficient of Friction		Overall Coefficient of Friction	
	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry Wet	and
Woodstone Oak	0.03	-0.15	0.57	0.51	0.76	0.48	0.67	0.50	0.58	

4.0 Closure

The static coefficient of friction of the Woodstone Oak Tiles was found to be below 0.60 in wet test condition and exceeds 0.60 in dry test condition.

The Occupational Safety and Health Administration recommends a static coefficient of 0.5 on walking surfaces, while the Access Board recommends 0.6 on walking surfaces with disability.

We trust this will meet your report requirements. If additional information is required, please contact the undersigned.

Respectfully submitted Construction Testing Laboratories Limited

Bill Wong. Manager

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