November 4, 2008

Report No.: MS08-14

MS International Inc.
2095 N Batavia Street
Orange, California
92865

Fax: 714-685-7600

Attention: Mr. Paulo Pereira

Subject: Slip Resistance of Travertino Beige 18” x 18” 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 Paulo,

1.0 Introduction

On October 29, 2008, Construction Testing Laboratories Limited received samples of Travertino Beige 18” x 18” 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.

Continued…
3.0 Test Results

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

**Table No. 1: Slip Resistance of Travertino Beige 18” x 18” Tiles (ASTM C1028-96)**

<table>
<thead>
<tr>
<th>Samples</th>
<th>Calibration Factor</th>
<th>As Tiles</th>
<th>Received</th>
<th>Cleaned Tiles</th>
<th>Average Coefficient of Friction</th>
<th>Overall Coefficient of Friction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dry</td>
<td>Wet</td>
<td>Dry</td>
<td>Wet</td>
<td>Dry</td>
<td>Wet</td>
</tr>
<tr>
<td>Travertino Beige</td>
<td>-0.07</td>
<td>-0.20</td>
<td>0.67</td>
<td>0.49</td>
<td>0.75</td>
<td>0.48</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.71</td>
</tr>
</tbody>
</table>

4.0 Closure

The static coefficient of friction of the Travertino Beige 18”x18” Tiles was found to be less than 0.50 in wet condition but 0.60 in overall.

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

1 cc: Client
1 cc: File, xp io e:\2008\report\ms08-14 slip r of Travertino Beige Tiles