TEST REPORT: 20198604/3

Modena, 11/12/19

CUSTOMER
FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENese - MO

MATERIAL and/o SAMPLE to be tested
porcelain tiles;

Denomination
serie Onyx & More articolo White porphyry superficie strutturato spessore 6 mm marchio casa Dolce casa;

Date of sample reception
18/11/2019;

Kind of test executed
Determination of Dynamic Coefficient of Friction (DCOF)

Referring standards
ANSI A326.3-2017

Shifting from standards
No one

Equipment
Tribometer BOT3000E cod. MCP C143

Subcontracted phases
No one

Sampling made by
Customer

The test results showing in this Report are only referred to the sample taken by our staff or supplied by the Customer. He commits himself to reproduce integrally this document. Partial reproduction is forbidden.
The times of retain of the samples was indicated in the offer related to the test report.
DETERMINATION OF DYNAMIC COEFFICIENT OF FRICTION

Beginning date : 11/21/2019  
Analysis ending date : 11/21/2019

SAMPLE : Ceramic tiles marked « serie Onyx & More articolo White porphyry superficie strutturato spessore 6 mm marchio casa Dolce casa »

The test has been carried out using the instrument BOT 3000, tribometer of the coefficient of dynamic friction (DCOF) between a sliding SBR sensor and the surface of test.

WET OPERATING CONDITION

All test specimens shall be cleaned prior to testing. Place three specimens on a solid surface in a row. Wet the path that the sensor will follow with 0.05% SLS (Sodium-Lauryl Sulfate) water.

Make a total of four dynamic measurement on the center tile. Make one measurement then turn the BOT 3000 180° and make the second measurement. Then turn the tile 90° and make the final two measurements in the same fashion above.

Record all four dynamic measurements and take an average.

Repeat on other two additional pieces. For textured tile, the three pieces of tile shall be representative of the different texture variations. If the tile is known to have more than three texture variations, test a representative tile of each texture.

SENSOR VERIFICATION

<table>
<thead>
<tr>
<th>Values of DCOF on standard tile before testing test specimens</th>
<th>0.28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Values of DCOF on standard tile after testing test specimens</td>
<td>0.28</td>
</tr>
</tbody>
</table>

RESULTS

<table>
<thead>
<tr>
<th>Test Condition</th>
<th>Measure 1</th>
<th>Measure 2</th>
<th>Measure 3</th>
<th>Measure 4</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet DCOF - tile 1</td>
<td>0.45</td>
<td>0.45</td>
<td>0.43</td>
<td>0.43</td>
<td>0.44</td>
</tr>
<tr>
<td>Wet DCOF - tile 2</td>
<td>0.45</td>
<td>0.46</td>
<td>0.47</td>
<td>0.45</td>
<td>0.46</td>
</tr>
<tr>
<td>Wet DCOF - tile 3</td>
<td>0.47</td>
<td>0.46</td>
<td>0.47</td>
<td>0.47</td>
<td>0.47</td>
</tr>
</tbody>
</table>

REFERENCE VALUES

ANSI A137.1:2017 prescribe a minimum threshold of 0.42 for level interior spaces expected to be walked upon when wet.