Modena, 29/02/16

To

FLORIM CERAMICHE SPA
VIA CANALETTO 24
41042 FIORANO MODENESE MO

Attn. SIG. TURRINI

MATERIAL and/or SAMPLE to be tested: PORCELAIN TILES;
Denomination of the Sample: 748370 PIETRE/3 LIMESTONE WHITE 60X60 RET TONO A50 CAL 5;

Client Reference: Your delivery VS CONSEGNA date: 11/02/2016

Here attached, you will receive the Test Report of Serial No. 20161139/n, which shows the results of tests required.

MODENA CENTRO PROVE
TEST REPORT: 20161139/1

Modena, 29/02/16

CUSTOMER

FLORIM CERAMICHE SPA - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO

MATERIAL and/o SAMPLE to be tested

PORCELAIN TILES;

Denomination

748370 PIETRE/3 LIMESTONE WHITE 60X60 RET TONO A50 CAL 5;

Date of sample reception

11/02/2016;

Kind of test executed

Determination of Slipperiness

Referring standards

DIN 51097:1992

Shifting from standards

None

Equipment

Pullmeter with ramp cod. MCP C23

Calibration

RT n. 08 of 28/04/2014

Subcontracted phases

None

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 SLIPPERINESS

Beginning date : 02/12/2016  Analysis ending date : 02/15/2016

SAMPLE : Ceramic tiles marked « 748370 PIETRE/3 LIMESTONE WHITE 60X60 RET TONO A50 CAL 5 »

A person walks backwards and forwards barefoot across the tiles to be tested, the inclination of which is increased by about 1° per second; the angle of inclination at which the person is no longer in conditions of safety is defined as the slip angle. The surface is wet continuously with a solution (1 g/l of wetting agent + water).

RESULTS

- Sample dimensions (length, width) : 1 x 0.5 (m)
- Width of joints : 5 (mm)
- Grouting substance : mortar
- D of profiles : none

- SLIP ANGLE : 22,0°
- CLASSIFICATION : B (A+B)

CLASSIFICATION

<table>
<thead>
<tr>
<th>Total Average Values</th>
<th>Group Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 12</td>
<td>0</td>
</tr>
<tr>
<td>≥ 12°</td>
<td>A</td>
</tr>
<tr>
<td>≥ 18°</td>
<td>B</td>
</tr>
<tr>
<td>≥ 24°</td>
<td>C</td>
</tr>
</tbody>
</table>
# Test Report: 20161139/2

**Modena, 29/02/16**

**Customer**

FLORIM CERAMICHE SPA - VIA CANALETTO 24 - 41042 - FIORANO MODENESI - MO

**Material and/or Sample to be tested**

PORCELAIN TILES;

**Denomination**

748370 PIETRE/3 LIMESTONE WHITE 60X60 RET TONO A50 CAL 5;

**Date of sample reception**

11/02/2016;

**Kind of test executed**

Determination of the Anti-Slip characteristics

**Referring standards**

DIN 51130:2014

**Shifting from standards**

No one

**Equipment**

Pullmeter with ramp cod. MCP C23

**Calibration**

RT n. 08 of 28/04/2014

**Subcontracted phases**

No one

**Sampling made by**

Customer

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DETERMINATION OF THE ANTI-SLIP CHARACTERISTICS

Beginning date : 02/12/2016  
Analysis ending date : 02/15/2016

SAMPLE : Ceramic tiles marked «748370 PIETRE/3 LIMESTONE WHITE 60X60 RET TONO A50 CAL 5 »

The test regards the working areas with a high slipping risk: the procedure foresees that a person taking part in the test walks on an inclined plane which is floored with the tested tiles and greased an oil whose viscosity is SAE 10W-30. During the execution of the test it is determined if the tested material may be properly laid down in specific work environments.

There is an average inclination which determines the insecurity of the person walking on the inclined plane and causes the classification of the tested tiles in one of five groups used to determine the sliding resistance.

RESULTS

- Mean inclination angle $\alpha_{ges}$ : 13.9°
- Classification : R 10

CLASSIFICATION

<table>
<thead>
<tr>
<th>Mean value $\alpha_{ges}$</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6^\circ \leq \alpha_{ges} \leq 10^\circ$</td>
<td>R 9</td>
</tr>
<tr>
<td>$10^\circ &lt; \alpha_{ges} \leq 19^\circ$</td>
<td>R 10</td>
</tr>
<tr>
<td>$19^\circ &lt; \alpha_{ges} \leq 27^\circ$</td>
<td>R 11</td>
</tr>
<tr>
<td>$27^\circ &lt; \alpha_{ges} \leq 35^\circ$</td>
<td>R 12</td>
</tr>
<tr>
<td>$\alpha_{ges} &gt; 35^\circ$</td>
<td>R 13</td>
</tr>
</tbody>
</table>

Note : The group classification give the parameter for determine the sliding resistance: the group R 9 is less anti-slip, the group R 13 as the maximum effectiveness anti-slip.

Examiner
P.I. De Pasquale Roberto
Examiner
P.I. Fili Thomas

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