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: 748355 PIETRE/3 LIMESTONE TAUPE 40X80 RET TONO A48 CAL 5;

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

Here attached, you will receive the Test Report of Serial No. 20161142/n, which shows the results of tests required.

MODENA CENTRO PROVE

MODENA CENTRO PROVE
Drrento’
San’Unione dr. Giuseppe
TEST REPORT: 20161142/1

Modena, 29/02/16

CUSTOMER

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

MATERIAL and/or SAMPLE to be tested

PORCELAIN TILES;

Denomination

748355 PIETRE/3 LIMESTONE TAUPE 40X80 RET TONO A48 CAL 5;

Date of sample reception

11/02/2016;

Kind of test executed

Determination of modulus of rupture and breaking strength

Referring standards


Shifting from standards

None

Equipment

Flexural test machine cod. MCP C93 - Gauge cod. MCP C95 - Metric band-mill cod. MCP C56

Calibration

C93: LAT 1600029FSE of 07/01/2016 - C95: LAT 1506358DSI of 26/05/2015 - C56: LAT C115163A0 of 18/09/2015

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 MODULUS OF RUPTURE AND BREAKING STRENGTH

Beginning date : 02/16/2016
Analysis ending date : 02/17/2016

SAMPLE : Ceramic tiles marked «748355 PIETRE/3 LIMESTONE TAUPE 40X80 RET TONO A48 CAL 5 »

The test has been performed applying a load on three points, with the central load to contact with the centre line of the does superior of the tile.

The test has been performed on entire samples.

EXPERIMENTAL CONDITIONS

• d (switches diameter) mm : 20
• t (depth of switches covering) mm : 5
• l (distance between bearing surface and the lip of tile) mm : 10
• L (distance between bearing surface) mm : 780

RESULTS

<table>
<thead>
<tr>
<th>Parametro</th>
<th>Unit of measure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Tile n°</td>
<td></td>
</tr>
<tr>
<td>Breaking load F</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>1758</td>
</tr>
<tr>
<td>Breaking strength S</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>3428</td>
</tr>
<tr>
<td>Modulus of rupture R</td>
<td>N/mm²</td>
</tr>
</tbody>
</table>

Breaking load F average (N) = 1645
Breaking strength S average (N) = 3208
Modulus of rupture R average (N/mm²) = 53,8

REQUIREMENTS
(Standard EN 14411:2012 Annex G)

• Modulus of rupture R average N/mm² : ≥ 35, no applicable with breaking strength ≥ 3000 N.
• Single value R N/mm² : ≥ 32