TEST REPORT: 20192982/3

Modena, 06/05/19

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

MATERIAL and/o SAMPLE to be tested
PORCELAIN TILES;

Denomination
760274 AIRTECH BASEL_GREY NAT 80X80 RET tono A50;

Date of sample reception
04/04/2019;

Date of sample acceptation
04/04/2019;

Kind of test executed
Determination of modulus of rupture and breaking strength

Referring standards

Shifting from standards
No one

Equipment
Flexural test machine cod. MCP C152 - Gauge cod. MCP C145 - Metric band-mill cod. MCP C56

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 MODULUS OF RUPTURE AND BREAKING STRENGTH

Beginning date : 15/04/2019
Analysis ending date : 16/04/2019

SAMPLE : Ceramic tiles, marked « 760274 AIRTECH BASEL_GREY NAT 80X80 RET tono A50 »

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.

RESULTS

The test has been performed on entire samples

Width of the test specimen b 800 mm
Dimension of tile L 800 mm
Diameter of rod d 20 mm
Thickness of rubber t 5 mm
Overlap of tile beyond the edge supports l_t 10 mm

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>Unit of measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tile n°</td>
<td>1</td>
</tr>
<tr>
<td>Span between the support rods l_2 mm</td>
<td>780</td>
</tr>
<tr>
<td>Width of the test specimen b mm</td>
<td>800</td>
</tr>
<tr>
<td>Minimum thickness of the specimen h mm</td>
<td>9,6</td>
</tr>
<tr>
<td>Breaking load F N</td>
<td>3347</td>
</tr>
<tr>
<td>Breaking strength S N</td>
<td>3257</td>
</tr>
<tr>
<td>Modulus of rupture R N/mm²</td>
<td>53,0</td>
</tr>
</tbody>
</table>

Breaking load F average value (N) = 3378
Breaking strength S average value (N) = 3294
Modulus of rupture R average value (N/mm²) = 52,5

REQUIREMENTS UNI EN 14411:2016

GROUP: Bla
UNI EN 14411:2016 Annex: G

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness ≥ 7,5 mm</td>
<td>&gt; 1300 N</td>
</tr>
<tr>
<td>Thickness &lt; 7,5 mm</td>
<td>&gt; 700 N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODULUS OF RUPTURE*</th>
<th>REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average value</td>
<td>&gt; 35 N/mm²</td>
</tr>
<tr>
<td>Individual value</td>
<td>&gt; 32 N/mm²</td>
</tr>
</tbody>
</table>

(*) Not applicable to ceramic tiles with breaking strenght > 3000 N

Examiner

MCP

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