Scandiano, 12/31/2015

Messrs Ceramiche ATLAS CONCORDE S.p.A.

Via Canaletto, 141
41042 Spezzano di Fiorano
(MO)

Test Report N. 5202/2015

on ceramic tiles defined by ASTM C 242

Our ref.num.: 16287
Date of request: 12/21/2015

Test Specimen

"Unglazed paver tile 60x60 cm marked:
COLLECTION MARK 23 5/8 x 23 5/8 LASTRA 20mm"

Source

Submitted to Laboratory by Client

Date Received

12/23/2015

Time of test execution

start: 12/28/2015 end: 12/29/2015

Test detail / method description / test procedure

"Standard test method for Breaking strength of ceramic tile - Standard ASTM C 648 - 04"

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(including this one). The results reported relate only to the samples tested.

Mod. P052/1 rev.01
STANDARD TEST METHOD FOR BREAKING STRENGTH OF
CERAMIC TILE
(Standard ASTM C 648 - 04)

Each of the tiles tested is placed, with the working surface facing upward, on three supports arranged at the vertices of an equilateral triangle, so that the center of the tile itself is to be at the center of the circumscribed circumference to cited equilateral triangle. On the center of the tiles a force is applied by means of suitable punch; such force is increased with a defined speed, until the breaking of the tile.

Length of the sides of the triangular support used in testing (mm): 76,2
Measuring range: (0 + 22000) lbs

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Breaking Strength (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4019</td>
</tr>
<tr>
<td>2</td>
<td>4192</td>
</tr>
<tr>
<td>3</td>
<td>3741</td>
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<td>9</td>
<td>4192</td>
</tr>
<tr>
<td>10</td>
<td>3751</td>
</tr>
</tbody>
</table>

Average strength (lbs): 3889