TEST REPORT: 20198608/3

Modena, 13/12/19

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

MATERIAL and/o SAMPLE to be tested
porcelain tiles;

Denomination
serie Elemental Stone of Cerim articolo Cream Limestone spessore 10 mm superficie naturale marchio Cerim;

Date of sample reception
18/11/2019;

Date of sample acceptation
18/11/2019;

Kind of test executed
Determination of the Resistance to Abrasion

Referring standards
UNI EN ISO 10545-7:2000

Shifting from standards
No one

Equipment
Abrasion tester cod. MCP C127

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 THE RESISTANCE TO ABRASION

Beginning date : 11/12/2019
Analysis ending date : 12/12/2019

SAMPLE : Ceramic tiles, marked « serie Elemental Stone of Cerim articolo Cream Limestone spessore 10 mm superficie naturale marchio Cerim »

The test was performed by rotating an abrasive load on the glazed surface of the tile; at the end of the test, the test specimens subjected to abrasion were compared with control tiles under a light source of 300 Lux, at the distance of 2 m and at the height of 1.65 m.

RESULTS

Stage of abrasion with visible variation (n° revolutions): > 12000
Abrasione class: 5

CLASSIFICATION

1. Classification PEI

<table>
<thead>
<tr>
<th>Abrasion Stage: abrasion visible at n° of turn</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>0</td>
</tr>
<tr>
<td>150</td>
<td>1</td>
</tr>
<tr>
<td>600</td>
<td>2</td>
</tr>
<tr>
<td>750 - 1500</td>
<td>3</td>
</tr>
<tr>
<td>2100 – 6000 – 12000</td>
<td>4</td>
</tr>
<tr>
<td>&gt;12000 and is in accordance with the stain resistance test UNI EN ISO 10545-14</td>
<td>5</td>
</tr>
</tbody>
</table>

2. Stain Classification of Abraded Tiles

<table>
<thead>
<tr>
<th>Test Solution</th>
<th>Standing Time</th>
<th>Resistance Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome green in light oil 40%</td>
<td>24 h</td>
<td>5</td>
</tr>
<tr>
<td>Iodine alcohol solution 1.3%</td>
<td>24 h</td>
<td>5</td>
</tr>
<tr>
<td>Olive oil T.Q.</td>
<td>24 h</td>
<td>5</td>
</tr>
</tbody>
</table>

Examiner

p.i. Bortolai Alberto
MODENA CENTRO PROVE

P.I. De Pasquale Roberto
MODENA CENTRO PROVE

San’Unione cr. Giuseppe

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3. **Stain Classification**

- **Class 1**: stain not removed
- **Class 2**: stain removed with the procedure D (immersion 24h in special solvent)
- **Class 3**: stain removed with the procedure C (mechanical action with strong cleaning agent)
- **Class 4**: stain removed with the procedure B (weak cleaning agent)
- **Class 5**: stain removed with the procedure A (running water, 5')

**REQUIREMENTS**
(Standard UNI EN 14411:2016 Annex G)

Report abrasion class and cycles passed.