



Scandiano, 09/21/2015

Messrs **FLORIM CERAMICHE S.p.a.**

Via Canaletto, 24
41042 FIORANO MODENESE
(MO)



Confidential Test Report N. 3565/2015 /I
on ceramic tiles defined by UNI EN 14411:2012

Our ref.num.: 15438
Date of request: 09/09/2015

Test Specimen

"Glazed paver tile 80x80 cm marked:
I CLASSICI STATUARIO 6MM GLOSSY 80x80 marchio REX"

Source

Submitted to Laboratory by Client

Date Received

09/10/2015

Time of test execution

start: 09/18/2015 end: 09/19/2015

Test detail / method description / test procedure

" Determination of resistance to surface abrasion for glazed tiles -
Standard UNI EN ISO 10545 - 7:2000 "

The report relates only to the sample(s) tested. This report must not be reproduced in part without the written permission of Main Laboratory Sassuolo, nor used in any way as to lead to misrepresentation of the results or their implications.

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Confidential Test Report N. 3565/2015 /I
FLORIM CERAMICHE S.p.a.

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Date 09/21/2015

Test specimen

"Glazed paver tile 80x80 cm marked:

I CLASSICI STATUARIO 6MM GLOSSY 80x80 marchio REX"

DETERMINATION OF RESISTANCE TO SURFACE ABRASION
FOR GLAZED TILES
(Standard UNI EN ISO 10545 - 7:2000)

Definition: *determination of the abrasion of glaze tiles by rotation of an abrasive load on the surface and assessment of the wear by means of visual comparison of abraded test specimens and non-abraded tiles.*

Results

Abrasion visible at rev.: >12000

Test cleanness' stains of abraded surface: stain removed (look test for stain).

Abrasion class: V

Test cleanness' stains of abraded surface

Stains

Test of stains resistance

Chrome green in light oil

stain removed

Iodine, alcoholic solution

stain removed

Olive oil

stain removed

The stain resistance of the abraded surface was carried out as indicated in paragraph 8 of the UNI EN ISO 10545-7.

Mod. P032/1 rev.02



THE DIRECTOR
(M.L. Simioli)



MODENA CENTRO PROVE s.r.l.
Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78
Tel. 059 822417 r.a. - Fax 059380281 - e-mail : info@modenacentroprove.it -
www.modenacentroprove.com
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364



TEST REPORT: 20193414/1

Modena, 15/05/19

CUSTOMER	FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	porcelain tiles;
Denomination	Serie I CLASSICI DI REX Articolo CALACATTA GOLD GLOSSY Magnum spessore 6mm formato 60X120 cm marchio Rex;
Date of sample reception	18/04/2019;
Date of sample acceptance	18/04/2019;
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.*

 Examiner p.l. Bortolai Alberto	 MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto	 MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe
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DETERMINATION OF THE RESISTANCE TO ABRASION

Beginning date : 02/05/19

Analysis ending date : 03/05/19

SAMPLE : Ceramic tiles, marked « **Serie I CLASSICI DI REX Articolo CALACATTA GOLD GLOSSY Magnum spessore 6mm formato 60X120 cm marchio Rex** »

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
 Abrasion class: 5

CLASSIFICATION

1. Classification PEI

Abrasion Stage: abrasion visible at n° of turn	Class
100	0
150	1
600	2
750 - 1500	3
2100 – 6000 – 12000	4
>12000 and is in accordance with the stain resistance test UNI EN ISO 10545-14	5

2. Stain Classification of Abraded Tiles

Test Solution	Standing Time	Resistance Class
Chrome green in light oil 40%	24 h	4
Iodine alcohol solution 1.3%	24 h	5
Olive oil T.Q.	24 h	5

 p.l. Bortolai Alberto	 MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto	 MODENA CENTRO PROVE Director Sant'Unione dr. 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')

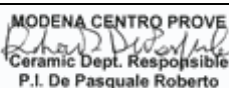
REQUIREMENTS

(Standard UNI EN 14411:2016 Annex G)

Report abrasion class and cycles passed.

Examiner


p.l. Bortolai Alberto

MODENA CENTRO PROVE

Ceramic Dept. Responsible
P.I. De Pasquale Roberto

MODENA CENTRO PROVE

Director
Sant'Unione dr. Giuseppe