



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](mailto:info@modenacentroprove.it) -  
[www.modenacentroprove.com](http://www.modenacentroprove.com)  
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364



LAB N°1018L

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

## TEST REPORT: 20198608/3

Modena, 13/12/19

### CUSTOMER

**FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO  
MODENESE - 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 acceptance

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.*

Examiner

p.i. Bortolai Alberto

MODENA CENTRO PROVE

Ceramic Dept. Responsible  
P.I. De Pasquale Roberto

MODENA CENTRO PROVE

Director  
Sant'Unione dr. Giuseppe



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](mailto: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



LAB N°1018L

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

## 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

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	5
Iodine alcohol solution 1.3%	24 h	5
Olive oil T.Q.	24 h	5

Examiner

p.i. Bortolai Alberto

MODENA CENTRO PROVE

Ceramic Dept. Responsible  
P.I. De Pasquale Roberto

MODENA CENTRO PROVE

Director  
Sant'Unione dr. Giuseppe



**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](mailto:info@modenacentroprove.it) -  
[www.modenacentroprove.com](http://www.modenacentroprove.com)  
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 C.F. e P. IVA n. 01592020364



LAB N°1018L

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

**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.i. Bortolai Alberto

MODENA CENTRO PROVE

  
Ceramic Dept. Responsible  
P.I. De Pasquale Roberto

MODENA CENTRO PROVE

  
Director  
Sant'Unione dr. Giuseppe