



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

MECCANICA

ECOLOGIA

CERAMICA

ALIMENTARE



Certificato n°
50 100 4582



Diploma
IWR/IT n°
30438



Socio



Membro



Socio

Unione Industriali
Modena



Iscritto

Modena, 13/12/16

To **FLORIM CERAMICHE SPA**
VIA CANALETTO 24
41042 FIORANO MODENESE MO

Attn.

| MATERIAL and/or SAMPLE to be tested | Denomination of the Sample | Client Reference – Your delivery | date |
|-------------------------------------|--|----------------------------------|------------|
| PORCELAIN TILES | serie Rawtech articolo Raw White superficie naturale formato 80x80 cm marchio Floor gres | NS RITIRO | 24/11/2016 |
| | | | |

Here attached, you will receive the Test Report of Serial No. **20168737/n**, which shows the results of tests required.

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Director
Sant'Unione dr. Giuseppe



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LAB N°1018
Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements

TEST REPORT: 20168737/1

Modena, 13/12/16

CUSTOMER

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

MATERIAL and/o SAMPLE to be tested

PORCELAIN TILES;

Denomination

serie Rawtech articolo Raw White
superficie naturale formato 80x80 cm marchio Floor gres;

Date of sample reception

24/11/2016;

Kind of test executed

Determination of Chemical Resistance – Unglazed Surfaces

Referring standards

UNI EN ISO 10545-13:2000

Shifting from standards

No one

Equipment

Forced ventilation stove cod. MCP C43

Calibration

C43: LAT 214-SE-16 of 05/05/16

Subcontracted phases

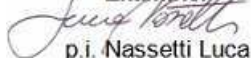
No one

Sampling made by

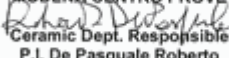
Customer

*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. Nassetti Luca

MODENA CENTRO PROVE


Ceramic Dept. Responsible
P.I. De Pasquale Roberto

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DETERMINATION OF CHEMICAL RESISTANCE – UNGLAZED TILES

Beginning date : 25/11/2016

Analysis ending date : 09/12/2016

SAMPLE : Ceramic tiles, marked « **serie Rawtech articolo Raw White
superficie naturale formato 80x80 cm marchio Floor gres** »

The test has been performed by dipping samples, for a determined period of time, in various solutions of test.

CLASSIFICATION

1. Classification with household chemicals, swimming pool salts, acids and alkalis

Class UA : no visible effect
Class UB : visible effects on cut sides
Class UC : visible effects on cut sides, non-cut sides and on proper surface

2. Classification after test with chemical products at low concentrations (L)

Class ULA : no visible effect
Class ULB : visible effects on cut sides
Class ULC : visible effects on cut sides, non-cut sides and on proper surface

3. Classification after test with chemical products at high concentrations (H)

Class UHA : no visible effect
Class UHB : visible effects on cut sides
Class UHC : visible effects on cut sides, non-cut sides and on proper surface

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RESULTS

| TEST SOLUTIONS | Period of Test | CLASS OF RESISTANCE Sample 1 | CLASS OF RESISTANCE Sample 2 | CLASS OF RESISTANCE Sample 3 | CLASS OF RESISTANCE Sample 4 | CLASS OF RESISTANCE Sample 5 |
|--------------------------------------|----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Ammonium chloride 100 g/l | 12 days | UA | UA | UA | UA | UA |
| Sodium hypochlorite solution 20 mg/l | 12 days | UA | UA | UA | UA | UA |
| Hydrochloric acid solution 3% (V/V) | 12 days | ULA | ULA | ULA | ULA | ULA |
| Citric acid solution 100 g/l | 12 days | ULA | ULA | ULA | ULA | ULA |
| Potassium hydroxide 30 g/l | 12 days | ULA | ULA | ULA | ULA | ULA |
| Hydrochloric acid solution 18% (V/V) | 12 days | UHA | UHA | UHA | UHA | UHA |
| Lactic acid 5% (V/V) | 12 days | UHA | UHA | UHA | UHA | UHA |
| Potassium hydroxide 100 g/l | 12 days | UHA | UHA | UHA | UHA | UHA |

REQUIREMENTS UNI EN 14411:2016

GROUP: Bla

UNI EN 14411:2016 Annex: G

| | | REQUIREMENT |
|----------------------------|--|-----------------|
| CHEMICAL RESISTANCE | Testing with household chemicals, swimming pool salt | minimum class B |
| | Testing with products at low acid and alkalis concentration | declared value |
| | Testing with products at high acid and alkalis concentration | declared value |

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