

**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, 28/08/17

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

Attn. **SIG. TURRINI D.**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
PORCELAIN TILES	Serie Antique Marble of Cerim articolo Pantheon marble 06 naturale superficie GL marchio Cerim	NS RITIRO	21/7/17

Here attached, you will receive the Test Report of Serial No. **20175696/n**, which shows the results of tests required.

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 Director
 Sant'Unione dr. Giuseppe



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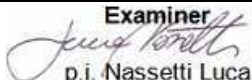
TEST REPORT: 20175696/1

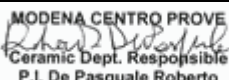
Modena, 28/08/17

CUSTOMER	FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	PORCELAIN TILES;
Denomination	Serie Antique Marble of Cerim articolo Pantheon marble 06 naturale superficie GL marchio Cerim;
Date of sample reception	21/07/2017;
Kind of test executed	Determination of Dynamic Coefficient of Friction (DCOF)
Referring standards	ANSI A137.1:2012 Version 1
Shifting from standards	No one
Equipment	Tribometer BOT3000E cod. MCP C143
Calibration	Cert. 00282-1 of 07-04-2017
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

MODENA CENTRO PROVE


Director
Sant'Unione dr. Giuseppe



DETERMINATION OF DYNAMIC COEFFICIENT OF FRICTION

Beginning date : 26/07/2017

Analysis ending date : 26/07/2017

SAMPLE : Ceramic tiles, marked « **Serie Antique Marble of Cerim articolo Pantheon marble 06 naturale superficie GL marchio Cerim** »

The test has been carried out using the instrument BOT 3000, tribometer of the coefficient of dynamic friction (DCOF) between a sliding SBR sensor and the surface of test.

WET OPERATING CONDITION

All test specimens shall be cleaned prior to testing. Place three specimens on a solid surface in a row. Wet the path that the sensor will follow with 0,05% SLS (*Sodium-Lauryl Sulfate*) water.

Make a total of four dynamic measurement on the center tile. Make one measurement then turn the BOT 3000 180° and make the second measurement. Then turn the tile 90° and make the final two measurements in the same fashion above. Record all four dynamic measurements and take an average.

Repeat on other two additional pieces. For textured tile, the three pieces of tile shall be representative of the different texture variations. If the tile is known to have more than three texture variations, test a representative tile of each texture.

SENSOR VERIFICATION

Values of DCOF on standard tile before testing test specimens	0.28
Values of DCOF on standard tile after testing test specimens	0.32

RESULTS

Test Condition	Measure 1	Measure 2	Measure 3	Measure 4	Average
Wet DCOF - tile 1	0.63	0.64	0.62	0.64	0.63
Wet DCOF - tile 2	0.64	0.65	0.65	0.64	0.64
Wet DCOF - tile 3	0.63	0.65	0.63	0.64	0.64

REFERENCE VALUES

ANSI A137.1:2012, Version 1, prescribe (6.2.2.1.10) a minimum threshold of 0,42 for level interior spaces expected to be walked upon when wet.

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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: 20175696/2

Modena, 28/08/17

CUSTOMER	FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	PORCELAIN TILES;
Denomination	Serie Antique Marble of Cerim articolo Pantheon marble 06 naturale superficie GL marchio Cerim;
Date of sample reception	21/07/2017;
Date of sample acceptance	21/07/2017;
Kind of test executed	Determination of Water Absorption
Referring standards	UNI EN ISO 10545-3:2000
Shifting from standards	No one
Equipment	Scale cod. MCP C148 - Scale cod. A123 - Ebonorm cod. MCP C68 - Forced ventilation stove cod. MCP C43 -
Calibration	C148: LAT 209B/17 of 05/06/2017; A123: LAT 094 N.352B-16 of 28-11-2016; C68: RT 11 of 05/09/16; C43: LAT 011 272-SE-17 of 23/05/2017
Subcontracted phases	No one
Sampling made by	Customer

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Examiner
p.i. Nassetti Luca**MODENA CENTRO PROVE**

Ceramic Dept. Responsible
P.I. De Pasquale Roberto



DETERMINATION OF WATER ABSORPTION

Beginning date : 28/07/2017

Analysis ending date : 31/07/2017

SAMPLE : Ceramic tiles, marked « **Serie Antique Marble of Cerim articolo Pantheon marble 06 naturale superficie GL marchio Cerim** »

The test was performed with the following test procedure:

1. Immersion of the tiles in distilled water
2. Heating the water at the boiling temperature:
3. Maintain this temperature for 2 h :
4. Cooling, maintaining the tiles in distilled water for 4 h

RESULTS

Sample n°	Water Absorption E_b (%)
1	0,03%
2	0,04%
3	0,02%
4	0,03%
5	0,02%
Average value	0,03%

REQUIREMENTS UNI EN 14411:2016

GROUP:

UNI EN 14411:2016 Annex:

	REQUIREMENT	
WATER ABSORPTION (in % by mass)	Average value E_b	$\leq 0,5\%$
	Individual value	$\leq 0,6\%$

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