



**MODENA CENTRO PROVE s.r.l.**

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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

ASSOCIATO



ACIMAC

ASSOCIATED

Modena, 07/04/14

To **CERAMICA CASALGRANDE  
PADANA SPA**

VIA STATALE 467 NR. 73  
42013 CASALGRANDE RE

Attn. **G. BORGHİ**

**MATERIAL and/or SAMPLE to be tested** : PORCELAIN TILES;

**Denomination of the Sample** : SERIE ARCHITECTURE LINEA GRANITOGRES  
: SUPERFICIE NATURALE 30X60;

Client Reference: Your delivery NS RITIRO

date:

Here attached, you will receive the Test Report of Serial No. **20142107/n**, which shows the results of tests required.

**MODENA CENTRO PROVE**

MODENA CENTRO PROVE  
  
Director  
Sant'Unione dr. Giuseppe



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## TEST REPORT: 20142107/1

Modena, 07/04/14

### CUSTOMER

**CERAMICA CASALGRANDE PADANA SPA - - VIA STATALE 467 NR. 73 -  
42013 - CASALGRANDE - RE**

### MATERIAL and/o SAMPLE to be tested

PORCELAIN TILES;

### Denomination

SERIE ARCHITECTURE LINEA GRANITOGRES SUPERFICIE NATURALE  
30X60;

### Date of sample reception

26/03/2014;

### Kind of test executed

Determination of Dynamic Coefficient of Friction (DCOF)

### Referring standards

ANSI A137.1:2012  
Version 1

### Shifting from standards

None

### Equipment

Tribometer BOT 3000 cod. C110

### Calibration

Cert. n. MCP081213A del 12/08/2013

### Subcontracted phases

### 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  
*Roberto Mattia*  
P.I. Rebutini Mattia

MODENA CENTRO PROVE  
*Roberto De Pasquale*  
Ceramic Dept. Responsible  
P.I. De Pasquale Roberto

MODENA CENTRO PROVE  
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**DETERMINATION OF DYNAMIC COEFFICIENT OF FRICTION**

Beginning date : 28/03/2014

Analysis ending date : 28/03/2014

**SAMPLE** : Ceramic tiles, marked « SERIE ARCHITECTURE LINEA GRANITOGRES SUPERFICIE NATURALE 30X60 »

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	<b>0,30</b>
Values of DCOF on standard tile after testing test specimens	0,30

**RESULTS**

Test Condition	Measure 1	Measure 2	Measure 3	Measure 4	Average
Wet DCOF - tile 1	0,60	0,59	0,59	0,61	<b>0,60</b>
Wet DCOF - tile 2	0,58	0,62	0,61	0,59	<b>0,60</b>
Wet DCOF - tile 3	0,60	0,61	0,60	0,60	<b>0,60</b>

**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.

Examiner  
*Roberto*  
P. Rebutini Matina

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