



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



ASSOCIATED

Modena, 31/03/14

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

Attn. **BORGHI - LUSETTI**

MATERIAL and/or SAMPLE to be tested : UNGLAZED PORCELAIN TILES CM 30X30;

Denomination of the Sample : LINEA GRANITOGRES GRANITO 1;

Client Reference: Your delivery

date:

Here attached, you will receive the Test Report of Serial No. **20141996/n**, which shows the results of tests required.

MODENA CENTRO PROVE

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Director
Sant'Unione dr. Giuseppe



MODENA CENTRO PROVE s.r.l.

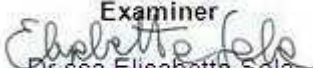
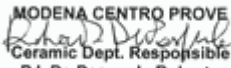

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TEST REPORT: 20141996/1

Modena, 31/03/14

CUSTOMER	CERAMICA CASALGRANDE PADANA SPA - - VIA STATALE 467 NR. 73 - 42013 - CASALGRANDE - RE
MATERIAL and/o SAMPLE to be tested	UNGLAZED PORCELAIN TILES CM 30X30;
Denomination	LINEA GRANITOGRES GRANITO 1;
Date of sample reception	01/04/2014;
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.*

<p>Examiner  Dr. ssa Elisabetta Sola</p>	<p>MODENA CENTRO PROVE  Ceramic Dept. Responsible P.I. De Pasquale Roberto</p>	<p>MODENA CENTRO PROVE  Director Sant'Unione dr. Giuseppe</p>
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DETERMINATION OF DYNAMIC COEFFICIENT OF FRICTION

Beginning date : 01/04/2014

Analysis ending date : 01/04/2014

SAMPLE : Ceramic tiles, size cm. 30X30 and marked « LINEA GRANITOGRES GRANITO 1 »

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	0.27

RESULTS

Test Condition	Measure 1	Measure 2	Measure 3	Measure 4	Average
Wet DCOF - tile 1	0.61	0.61	0.61	0.60	0.61
Wet DCOF - tile 2	0.61	0.60	0.60	0.61	0.61
Wet DCOF - tile 3	0.59	0.60	0.60	0.59	0.60

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.

<p>Examiner Dr. ssa Elisabetta Sola</p>	<p>MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto</p>	<p>MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe</p>
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