

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

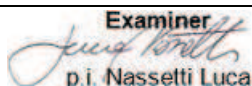
Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78
Tel. 059822417 r.a. - Fax 059380281 - e-mail : info@modenacentroprove.it - www.modenacentroprove.com
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 - C.F. e P. IVA n. 01592020364

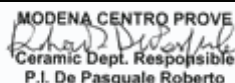
TEST REPORT: 20186767/2

Modena, 19/10/18

CUSTOMER	FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	porcelain tiles;
Denomination	serie Exalt of Cerim articolo Amber Sympony naturale spessore 10 mm formato 60x120 cm marchio Cerim;
Date of sample reception	25/09/2018;
Kind of test executed	Determination of Dynamic Coefficient of Friction (DCOF)
Referring standards	ANSI A137.1:2017
Shifting from standards	No one
Equipment	Tribometer BOT3000E cod. MCP C143
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 : 12/10/2018

Analysis ending date : 12/10/2018

SAMPLE: Ceramic tiles, marked « **serie Exalt of Cerim articolo Amber Sympony naturale spessore 10 mm formato 60x120 cm 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	0,28

RESULTS

Test Condition	Measure 1	Measure 2	Measure 3	Measure 4	Average
Wet DCOF - tile 1	0,45	0,44	0,44	0,45	0,45
Wet DCOF - tile 2	0,43	0,45	0,45	0,44	0,44
Wet DCOF - tile 3	0,45	0,45	0,43	0,43	0,44

REFERENCE VALUES

ANSI A137.1:2017 prescribe a minimum threshold of 0,42 for level interior spaces expected to be walked upon when wet.

 Examiner p.i. Nassetti Luca	 MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto	 MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe
---	--	---