

**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

Modena, 09/07/19

To **CERAMICHE ATLAS CONCORDE
SPA - SPEZZANO**
VIA CANALETTO 141 - FRAZ. SPEZZANO
41042 FIORANO MODENESE MO

Attn. **sig. Gilioli**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
porcelain tiles	COLLEZIONE AIX 22.5X22.5 LASTRA 20mm	-	17/06/2019

Here attached, you will receive the Test Report of Serial No. **20194331**/n, which shows the results of tests required.

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Director
Sant'Unione dr. Giuseppe



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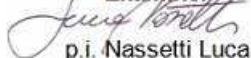
TEST REPORT: 20194331/1

Modena, 09/07/19

CUSTOMER	CERAMICHE ATLAS CONCORDE SPA - SPEZZANO - - VIA CANALETTO 141 - FRAZ. SPEZZANO - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	porcelain tiles;
Denomination	COLLEZIONE AIX 22.5X22.5 LASTRA 20mm;
Date of sample reception	17/06/2019;
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

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Director
Sant'Unione dr. Giuseppe



DETERMINATION OF DYNAMIC COEFFICIENT OF FRICTION

Beginning date : 05/07/2019

Analysis ending date : 05/07/2019

SAMPLE : Ceramic tiles, marked « **COLLEZIONE AIX 22.5X22.5 LASTRA 20mm** »

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	0.30
Values of DCOF on standard tile after testing test specimens	0.29

RESULTS

Test Condition	Measure 1	Measure 2	Measure 3	Measure 4	Average
Wet DCOF - tile 1	0.92	0.92	0.91	0.92	0.92
Wet DCOF - tile 2	0.90	0.93	0.92	0.92	0.92
Wet DCOF - tile 3	0.90	0.92	0.91	0.90	0.91

REFERENCE VALUES

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

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