

**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, 09/08/19

To **GRUPPO ROMANI S.P.A.**  
VIA A.VOLTA 9  
23/25  
42013 CASALGRANDE RE

Attn. **sig. Marastoni**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
PORCELAIN TILES	1066579 FOSSIL CREMA RET 60X60	NS RITIRO	15/7/19

Here attached, you will receive the Test Report of Serial No. **20195789**/n, which shows the results of tests required.

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MODENA CENTRO PROVE  
  
Director  
Sant'Unione dr. Giuseppe



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## TEST REPORT: 20195789/1

Modena, 09/08/19

<b>CUSTOMER</b>	<b>GRUPPO ROMANI S.P.A. - - VIA A.VOLTA 9 23/25 - 42013 - CASALGRANDE - RE</b>
<b>MATERIAL and/o SAMPLE to be tested</b>	PORCELAIN TILES;
<b>Denomination</b>	1066579 FOSSIL CREMA RET 60X60;
<b>Date of sample reception</b>	15/07/2019;
<b>Kind of test executed</b>	Determination of Slipperiness
<b>Referring standards</b>	D.M. 236 - 89 Rif.B.C.R.
<b>Shifting from standards</b>	No one
<b>Equipment</b>	Pullmeter Tortus cod. MCP C142
<b>Subcontracted phases</b>	No one
<b>Sampling made by</b>	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. Bortolai Alberto

MODENA CENTRO PROVE

  
Ceramic Dept. Responsible  
P.I. De Pasquale Roberto

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## DETERMINATION OF SLIPPERINESS

Beginning date : 05/08/2019

Analysis ending date : 05/08/2019

**SAMPLE** : Ceramic tiles, marked «**1066579 FOSSIL CREMA RET 60X60**»

The test has been performed using the TORTUS floor friction tester, that measures the dynamic coefficient of friction between a loaded slider and the surface under test.

### OPERATING CONDITIONS

- Speed of travel (mm/s) : 17
- Load applied to slider (q) : 200g
- Slider's diameter (Ø) mm : 9

### RESULTS

Surface Conditions	Type of course	Coefficient of Friction (COFd) $\mu$
Dry (d) Leather	Straight	0.54
	Oblique right side	0.54
	Oblique left side	0.54

- Average coefficient of friction COFd ( $\mu$ ) : **0.54**

Surface Conditions	Type of course	COEFFICIENT of FRICTION (COFw) $\mu$
Wet (water + wetting agent) (w) Hard shoe – heeliny rubber 4S	Straight	0.59
	Oblique right side	0.59
	Oblique left side	0.59

- Average coefficient of friction COFw ( $\mu$ ) : **0.59**

### REQUIREMENTS

- **D.M. 236 - 14/06/1989** : > 0.40  $\mu$  it is for dry ground/leather for is bathed/rubber

### RECOMMENDED VALUES

(B.C.R. Rep. CEC 6/81)

- $\mu < 0.19$  : Dangerous
- $0.20 < \mu < 0.39$  : Excessive
- $0.40 < \mu < 0.74$  : Satisfactory
- $\mu > 0.75$  : Excellent

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