

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

Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78  
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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, 17/12/19

To **BRETON SPA**  
VIA GARIBALDI 27  
31030 CASTELLO DI GODEGO TV

Attn. **SIG. RUZZANTE M.**  
**SIG.- CARRON**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
SINTERED STONE	VESUVIO	-	25/11/2019

Here attached, you will receive the Test Report of Serial No. **20199040**/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: 20199040/1**

Modena, 17/12/19

**CUSTOMER**

**BRETON SPA - - VIA GARIBALDI 27 - 31030 - CASTELLO DI GODEGO - TV**

**MATERIAL and/o SAMPLE to be tested**

SINTERED STONE;

**Denomination**

VESUVIO;

**Date of sample reception**

25/11/2019;

**Kind of test executed**

Determination of Slipperiness

**Referring standards**

D.M. 236 - 89 Rif.B.C.R.

**Shifting from standards**

No one

**Equipment**

Pullmeter Tortus cod. MCP C142

**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. Bortolai Alberto

MODENA CENTRO PROVE

Ceramic Dept. Responsible  
P.I. De Pasquale Roberto

MODENA CENTRO PROVE

Director  
Sant'Unione dr. Giuseppe



## DETERMINATION OF SLIPPERINESS

Beginning date : 13/12/2019

Analysis ending date : 13/12/2019

**SAMPLE** : Ceramic tiles, marked « **VESUVIO** »

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 ( $\varnothing$ ) mm : 9

### RESULTS

Surface Conditions	Type of course	Coefficient of Friction (COFd) $\mu$
Dry (d) Leather	Straight	0,58
	Oblique right side	0,58
	Oblique left side	0,58

- Average coefficient of friction COFd ( $\mu$ ) : 0,58

Surface Conditions	Type of course	COEFFICIENT of FRICTION (COFw) $\mu$
Wet (water + wetting agent) (w) Hard shoe – heeled rubber 4S	Straight	0,48
	Oblique right side	0,48
	Oblique left side	0,48

- Average coefficient of friction COFw ( $\mu$ ) : 0,48

### 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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