

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

Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78
Tel. 059 822417 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

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 | LITHOS | - | 25/11/2019 |
| | | | |

Here attached, you will receive the Test Report of Serial No. **20199044**/n, which shows the results of tests required.

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Director
Sant'Unione dr. Giuseppe

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TEST REPORT: 20199044/1

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 | LITHOS; |
| 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 |
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DETERMINATION OF SLIPPERINESS

Beginning date : 13/12/2019

Analysis ending date : 13/12/2019

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

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) μ |
|--------------------|--------------------|--------------------------------------|
| Dry (d) Leather | Straight | 0,54 |
| | Oblique right side | 0,55 |
| | Oblique left side | 0,53 |

- Average coefficient of friction COFd (μ) : 0,54

| Surface Conditions | Type of course | COEFFICIENT of FRICTION (COFw) μ |
|--|--------------------|--------------------------------------|
| Wet (water + wetting agent) (w) Hard shoe – heeling rubber 4S | Straight | 0,62 |
| | Oblique right side | 0,61 |
| | Oblique left side | 0,61 |

- Average coefficient of friction COFw (μ) : 0,61

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

Examiner

p.i. Bortolai Alberto

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Ceramic Dept. Responsible
P.I. De Pasquale Roberto

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Director
Sant'Unione dr. Giuseppe