

**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, 13/11/17

To **CERAMIKA GRES S.A.**
UL. CERAMICZNA 1
26-200 KONSKIE - POLAND PL

Attn.

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
porcelain tiles	ESTILE	ord 56111	07/11/2017

Here attached, you will receive the Test Report of Serial No. **20177680**/n, which shows the results of tests required.

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Director
Sant'Unione dr. Giuseppe



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TEST REPORT: 20177680/1

Modena, 13/11/17

CUSTOMER	CERAMIKA GRES S.A. - - UL. CERAMICZNA 1 - 26-200 - KONSKIE - POLAND - PL
MATERIAL and/o SAMPLE to be tested	porcelain tiles;
Denomination	ESTILE;
Date of sample reception	07/11/2017;
Kind of test executed	Determination of the Anti-Slip characteristics
Referring standards	DIN 51130:2014
Shifting from standards	No one
Equipment	Pullmeter with ramp cod. MCP C150
Calibration	RT 01 of 30/08/2017
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	Examiner p.i. Nasseti Luca	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 THE ANTI-SLIP CHARACTERISTICS

Beginning date : 07/11/2017

Analysis ending date : 08/11/2017

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

The test regards the working areas with a high slipping risk: the procedure foresees that a person taking part in the test walks on an inclined plane which is floored with the tested tiles and greased an oil whose viscosity is SAE 10W-30. During the execution of the test it is determined if the tested material may be properly laid down in specific work environments.

There is an average inclination which determines the insecurity of the person walking on the inclined plane and causes the classification of the tested tiles in one of five groups used to determine the sliding resistance.

RESULTS

- Mean inclination angle α_{ges} : 6.7°
- Classification : R 9

CLASSIFICATION

Mean value α_{ges}	Class
$6^\circ \leq \alpha_{ges} \leq 10^\circ$	R 9
$10^\circ < \alpha_{ges} \leq 19^\circ$	R 10
$19^\circ < \alpha_{ges} \leq 27^\circ$	R 11
$27^\circ < \alpha_{ges} \leq 35^\circ$	R 12
$\alpha_{ges} > 35^\circ$	R 13

Note : The group classification give the parameter for determine the sliding resistance: the group R 9 is less anti-slip, the group R 13 as the maximum effectiveness anti-slip.

<p>Examiner p.i. Bortolai Alberto</p>	<p>Examiner p.i. Nasseti Luca</p>	<p>MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto</p>	<p>MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe</p>
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