

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, 19/03/18

To CERAMIKA NOWA GALA S.A.

UL. CERAMICZNA 1 26-200 KONSKIE PL

Attn. **Ewelina Stepien**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
porcelain tiles	WALNUT STRUCTURE	your delivery	21/02/2018

Here attached, you will receive the Test Report of Serial No. **20181402**/n, which shows the results of tests required.

MODENA CENTRO PROVE

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Director

Sant'Unione dr. Giuseppe



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TEST REPORT: 20181402/1

Modena, 19/03/18

CUSTOMER CERAMIKA NOWA GALA S.A. - - UL. CERAMICZNA 1 - 26-200 - KONSKIE

- PL

MATERIAL and/o SAMPLE to be

tested

porcelain tiles;

Denomination WALNUT STRUCTURE;

Date of sample reception 21/02/2018;

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.

p.i. Nassetti Luca
Examiner

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 : 01/03/18 Analysis ending date : 02/03/18

SAMPLE: Ceramic tiles, marked «WALNUT STRUCTURE »

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} : 23.7° • Classification : R 11

CLASSIFICATION

Mean value α _{ges}	Class	
$6^{\circ} \le \alpha_{\text{ges}} \le 10^{\circ}$	R 9	
10° < α _{ges} ≤ 19°	R 10	
19° < α _{ges} ≤ 27°	R 11	
27° < α _{ges} ≤ 35°	R 12	
$\alpha_{\rm ges}$ > 35°	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.

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TEST REPORT: 20181402/2

Modena, 19/03/18

CUSTOMER CERAMIKA NOWA GALA S.A. - - UL. CERAMICZNA 1 - 26-200 - KONSKIE

- PL

MATERIAL and/o SAMPLE to be

tested

porcelain tiles;

Denomination WALNUT STRUCTURE;

Date of sample reception 21/02/2018;

Kind of test executed Determination of Slipperiness

Referring standards DIN 51097:1992

Shifting from standards None

Equipment Pullmeter with ramp cod. MCP C150

Calibration RT 01 of 30/08/2017

Subcontracted phases None

Sampling made by Customer

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p.i. Nassetti Luca
Examiner

D.i. Bortolai Mberto

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DETERMINATION OF SLIPPERINESS

Beginning date : 01/03/18 Analysis ending date : 02/03/18

SAMPLE: Ceramic tiles, marked « WALNUT STRUCTURE »

A person walks backwards and forwards barefoot across the tiles to be tested, the inclination of which is increased by about 1° per second; the angle of inclination at which the person is no longer in conditions of safety is defined as the slip angle. The surface is wet continuously with a solution (1 g/l of wetting agent + water).

RESULTS

Sample dimensions (length, width)
 Width of joints
 Grountig substance
 D of profiles
 1x 0.5 (m)
 5(mm)
 mortar
 none

SLIP ANGLE
 CLASSIFICATION
 C(A+B+C)

CLASSIFICATION

Total Average Values	Group Classification	
< 12	0	
≥ 12°	Α	
≥ 18°	В	
≥ 24°	С	

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Examiner

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