

Laboratorio prove, Centro di Ricerca, Sperimentazione, Consulenza e Controllo qualità

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TEST REPORT n. 4525/2021/I

**TESTING OF FLOOR COVERINGS; DETERMINATION OF THE ANTI-SLIP PROPERTIES;
WET-LOADED BAREFOOT AREAS; WALKING METHOD; RAMP TEST
DIN 51097-1992**

Date of report: 08/05/2021

Customer: **REFIN CERAMICHE S.p.A.**
Via I Maggio, 22
42010 Salvaterra (RE)

Requested on: 07/27/2021

Our ref.number: 31128

Execution place of tests: Scandiano (RE)

Description of the sample: "Size panel 50x100 cm lined with ceramic tiles 120x120 cm unglazed marked: AFFRESCATI OMBRA R"

Sampling: carried out by the customer

Receipt date of samples: 07/30/2021

Execution date of tests: start: 08/05/2021 end: 08/05/2021

Test specification: DIN 51097:1992
Testing of floor coverings; Determination of the anti-slip property; Wet-loaded barefoot areas; Walking method; Ramp test

Warnings: *This test report can not be reproduced in part, without our written consent.
The reported results relate only to the samples tested.
The information included in quotation marks was provided by the customer.*

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Purpose: the procedure in accordance with this standard serves as a suitability test for the determination and assessment of the non-slip properties of floor coverings for use in wet barefoot transit areas. Floor coverings for steps and stairways are also considered. The non-slip property is the ability of a floor covering to counter slipping.

Principle: the tester shall run in an upright position and in both directions the floor covering to be tested, the inclination of which shall increase from the horizontal plane to an angle (angle of inclination) such as to make the person's movement unsafe. The angle of inclination is determined on the continuously wet coating of water containing the imbibent agent. The angle of inclination is used to evaluate the anti-slip property.

Sample size: 50x100 cm

Width of the joints: Sample without joints

Surface characteristics: Structured

Angle of slip: $\alpha = 17^\circ \pm 1^\circ$

Classification:

$\alpha < 12^\circ$	$\alpha \geq 12^\circ$	$\alpha \geq 18^\circ$	$\alpha \geq 24^\circ$
U	A	B	C
	X		

U = Unclassifiable

Annotations: *The uncertainties reported were determined in accordance with ISO / IEC Guide 98 and the document EA-4/02 and are expressed as expanded uncertainty ottentuta multiplying the standard uncertainty by the coverage factor corresponding to a confidence level of 95%. The coverage factor used is $K = 2,23$*

The decision-making rule applied by the laboratory for the declaration of compliance requires that the comparison with the applicable specification limits does not take into account the measurement uncertainty and the level of risk assessed. To this shall be added the estimated expanded uncertainty value when the test result falls within the range centred on the class limit value and semi-amplitude of the expanded uncertainty U.



Technical Manager
Ivan Biorci

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