

**Testing, Experimentation and Quality Control Laboratory**

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**TEST REPORT n. 2590/2023/I**

**DIN EN 16165:2023-02**

**DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES**

**METHODS OF EVALUATION**

**ANNEX B - SHOD RAMP TEST**

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Date of report:	05/09/2023
Customer:	<b>REFIN CERAMICHE S.p.A.</b>  Via I Maggio, 22 42010 Salvaterra (RE)
Requested on:	04/27/2023
Our ref.number:	34966
Execution place of tests:	Scandiano (RE)
Description of the sample:	"Ceramic tiles 600x600x20 mm marked: CONCRETE OUT2 DARK"
Sampling:	carried out by the customer
Receipt date of samples:	04/27/2023
Execution date of tests:	start: 05/08/2023                      end: 05/08/2023
Test specification:	DIN EN 16165:2023-02 - Annex B Determination of slip resistance of pedestrian surfaces - Methods of evaluation - Shod ramp test
Warnings:	<i>This test report may not be reproduced in part without our written approval. The results reported only refer to the samples tested, as received, and are only valid under the conditions in which the work was carried out. The information enclosed in inverted commas was provided by the customer and the laboratory accepts no liability for it.</i>

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**Scope:** this part of the standard specifies the test method for determining the slip resistance of pedestrian surfaces using the shod ramp test.

**Principle:** two test persons wearing shoes are used to determine the angle of slip, after the pedestrian surface material being tested has been evenly coated with oil. The test persons, each in turn, facing down the ramp and with an upright posture, move forwards and backwards over the test surface, as they increase their angle of inclination, until the safe limit of walking is reached and a slip occurs. The mean angle of slip obtained is used to express the degree of slip resistance. Subjective influences on the angle of slip are limited by means of a correction procedure.

**Test surface:** sample prepared as described in B.2.2 of the standard

**Surface characteristics:** flat

**Angle of slip:**  $\alpha_{shod} = >38^\circ$

**Classification**

**National Annex NB.2**

$\alpha < 6^\circ$	$6^\circ \leq \alpha \leq 10^\circ$	$10^\circ < \alpha \leq 19^\circ$	$19^\circ < \alpha \leq 27^\circ$	$27^\circ < \alpha \leq 35^\circ$	$\alpha > 35^\circ$
U	R9	R10	R11	R12	R13
					X

U = Unclassifiable

*The laboratory does not take the measurement uncertainty into account when classifying the result. When the test result falls in the range centred on the class limit value and having as half amplitude the value of the extended uncertainty U the laboratory reports the value of the measurement uncertainty. In this case the risk (probability) of giving an incorrect classification is < 50%, in other cases the probability is < 2.5%.*



The Director  
Giulia Gaido