





Testing, Experimentation and Quality Control Laboratory

Main Laboratory Sassuolo S.r.l. - Via F.lli Setti, 7 - 42019 Scandiano - Reggio Emilia (Italy) Cod.Fisc. e P.IVA 03164360368 Tel: 0522 982603 Fax: 0522 852834 E-mail: info@mainlaboratorysassuolo.it Web: www.mainlaboratorysassuolo.it

TEST REPORT n. 3317/2022/I DIN EN 16165:2021-12 DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES METHODS OF EVALUATION ANNEXE A - BAREFOOT RAMP TEST

Date of report:	07/13/2022							
Customer:	GRUPPO CERAMICHE GRESMALT S.p.A.							
	Via Statale 467, 45 42013 Casalgrande (RE)							
Requested on:	06/30/2022							
Our ref.number:	33240							
Execution place of tests:	Scandiano (RE)							
Description of the sample:	"Ceramic tiles 604x604 mm marked: Nordic 604 Ivory tono J49A"							
Sampling:	carried out by the customer							
Receipt date of samples:	07/04/2022							
Execution date of tests:	start: 07/08/2022 end: 07/08/2022							
Test specification:	DIN EN 16165:2021-12 - Annexe A Determination of slip resistance of pedestrian surfaces - Methods of evaluation - Barefoot ramp test							
Warnings:	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.							







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TEST REPORT n. 3317/2022/I DIN EN 16165:2021-12 DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES METHODS OF EVALUATION ANNEXE A - BAREFOOT RAMP TEST

Scope:	this part of t resistance of	this part of the standard specifies the test method for determining the slip resistance of pedestrian surfaces using the barefoot ramp test.						
Principle:	Two bare-for pedestrian s containing a and with an as they incre and a slip oc slip resistand correction p	Two bare-foot test persons are used to determine the angle of slip, while the pedestrian surface material being tested is continuously coated with water containing a wetting agent. 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 prep	sample prepared as described in A.2.4 of the standard						
Surface characteristics:	flat	flat						
Angle of slip:	$\alpha_{barefoot} = 2$	$\alpha_{barefoot} = 21^{\circ}$						
<u>Classification</u>	National An	National Annexe NA.1						
	α<12°	12°≤α<18°	18°≤α<24°	α≥24°				
	NC	А	В	С	1			

U = Unclassifiable

When classifying the result the laboratory applies the simple binary rule of acceptance of the result without guard band (Section 4.2.1 of ILAC-G8:09/2019).

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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

End of test report







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TEST REPORT n. 3405/2022/I DIN EN 16165:2021-12 DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES METHODS OF EVALUATION ANNEXE B - SHOD RAMP TEST

Date of report:	07/15/2022							
Customer:	GRUPPO CERAMICHE GRESMALT S.p.A.							
	Via Statale 467, 45 42013 Casalgrande (RE)							
Requested on:	06/30/2022							
Our ref.number:	33240							
Execution place of tests:	Scandiano (RE)							
Description of the sample:	"Ceramic tiles 604x604 mm marked: Nordic 604 Ivory tono J49A"							
Sampling:	carried out by the customer							
Receipt date of samples:	07/04/2022							
Execution date of tests:	start: 07/09/2022 end: 07/09/2022							
Test specification:	DIN EN 16165:2021-12 - Annexe B Determination of slip resistance of pedestrian surfaces - Methods of evaluation - Shod ramp test							
Warnings:	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.							







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TEST REPORT n. 3405/2022/I DIN EN 16165:2021-12 DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES METHODS OF EVALUATION ANNEXE B - SHOD RAMP TEST

Scope:	this part resistanc	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 p	sample prepared as described in B.2.2 of the standard						
Surface characteristics:	flat							
Angle of slip:	$\alpha_{shod} = 1$	$\alpha_{shod} = 15^{\circ}$						
<u>Classification</u>	National	National Annexe NA.2						
	α<6°	6°≤α<10°	10°≤α<19°	19°≤α<27°	27°≤α<35°	α≥35°		
	U	R9	R10	R11	R12	R13		

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U = Unclassifiable

When classifying the result the laboratory applies the simple binary rule of acceptance of the result without guard band (Section 4.2.1 of ILAC-G8:09/2019).

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%.



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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.							
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Surface characteristics:	flat							
Angle of slip:	$\alpha_{shod} = 1$	$\alpha_{shod} = 15^{\circ}$						
<u>Classification</u>	National	National Annexe NA.2						
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