MAIN LABORATORY SASSUOLO

LAB N° 1170 L

Testing, Experimentation and Quality Control Laboratory

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TEST REPORT n. 1939/2023/I

ANSI A326.3:2021

DETERMINATION OF DYNAMIC COEFFICIENT OF FRICTION (DCOF) OF HARD SURFACE FLOORING MATERIALS

Date of report:	04/13/2023
Customer:	**CASALGRANDE-PADANA S.p.A.** S.S. 467, 73 42013 CASALGRANDE (RE)
Requested on:	04/06/2023
Our ref.number:	34824
Execution place of tests:	Scandiano (RE)
Description of the sample:	"Ceramic tiles 60x60 cm marked:Supreme"
Sampling:	carried out by the customer
Receipt date of samples:	04/07/2023
Execution date of tests:	start: 04/12/2023 end: 04/12/2023
Test specification:	ANSI A326.3:2021 Determination of dynamic coefficient of friction (DCOF) of hard surface flooring materials.
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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Scope:	this standard describe the test method for measuring dynamic coefficient of friction (DCOF) of hard surface flooring materials.
Procedure:	the test is performed using Regan Scientific Instruments' BOT 3000E instrument in dry conditions and wet conditions using 0,05 % Sodium-Lauryl Sulfate (SLS) in water. The SBR testfoot sensor is used as a sliding element with standard characteristics as described in point 5.2. The sensor is controlled using a standard tile before and after the test. Three (3) tile samples are tested in four (4) directions.
Number of samples tested:	3
BOT 3000E calibration date:	01/09/2023
Type of surface:	flat
Cleaning chemical:	light-use cleaner, pH neutral
Length of the path:	8 inch (maximum possible path - as per paragraph 9.1.4)
Conditions of the test:	dry and wet surface
Type of sensor:	SBR testfoot

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Test results

Dry surface conditions

Temperature: 21 °C

Humidity: 44 %

DCOF of sensor validation surface (0,67 ± 0,04)

Before the test: 0,66

After the test: 0,65

Sample	Direction 1	Direction 2	Direction 3	Direction 4	DCOF Average
1	0,72	0,69	0,70	0,71	**0,71**
2	0,67	0,69	0,68	0,70	**0,69**
3	0,70	0,72	0,70	0,70	**0,71**

Wet surface conditions

DCOF of sensor validation surface (0,37 ± 0,03)

Before the test: 0,38

After the test: 0,35

Sample	Direction 1	Direction 2	Direction 3	Direction 4	DCOF Average
1	0,56	0,61	0,59	0,64	**0,60**
2	0,54	0,58	0,60	0,62	**0,59**
3	0,54	0,60	0,60	0,63	**0,59**

MAIN LABORATORY SASSUOLO SRL
Centro di Ricerca Sperimentazione e Controllo Qualità

The Director
Giulia Gaido

End of test report