

**Testing, Experimentation and Quality Control Laboratory**

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**TEST REPORT n. 1940/2023/I**

**ANSI A326.3:2021**

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

Date of report:	04/13/2023
Customer:	<b>CASALGRANDE-PADANA S.p.A.</b>  S.S. 467, 73 42013 CASALGRANDE (RE)
Requested on:	04/06/2023
Our ref.number:	34823
Execution place of tests:	Scandiano (RE)
Description of the sample:	"Ceramic tiles 60x60 cm marked:Era"
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:	<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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<i>Scope:</i>	this standard describe the test method for measuring dynamic coefficient of friction (DCOF) of hard surface flooring materials.
<i>Procedure:</i>	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: 46 %

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

Before the test: 0,66

After the test: 0,66

Sample	Direction 1	Direction 2	Direction 3	Direction 4	DCOF Average
1	0,72	0,75	0,77	0,75	<b>0,75</b>
2	0,70	0,73	0,73	0,73	<b>0,72</b>
3	0,72	0,72	0,72	0,71	<b>0,72</b>

**Wet surface conditions**

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

Before the test: 0,35

After the test: 0,36

Sample	Direction 1	Direction 2	Direction 3	Direction 4	DCOF Average
1	0,63	0,68	0,73	0,70	<b>0,69</b>
2	0,60	0,67	0,68	0,70	<b>0,66</b>
3	0,60	0,67	0,67	0,70	<b>0,66</b>



The Director  
Giulia Gaido

End of test report