

**SOTTER ENGINEERING CORPORATION**  
Floor Slip Resistance Consultants

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*Licensed by the State of California  
Board of Professional Engineers  
And Land Surveyors*

*Certified by the City of Los Angeles  
as an official slip resistance testing  
laboratory for flooring*

**CERTIFIED**

**ANSI A137.1/A326.3 Flooring Slip Resistance Test Results**

Client: **Continental Grafix USA, Inc.**

Report date: 3/3/2021

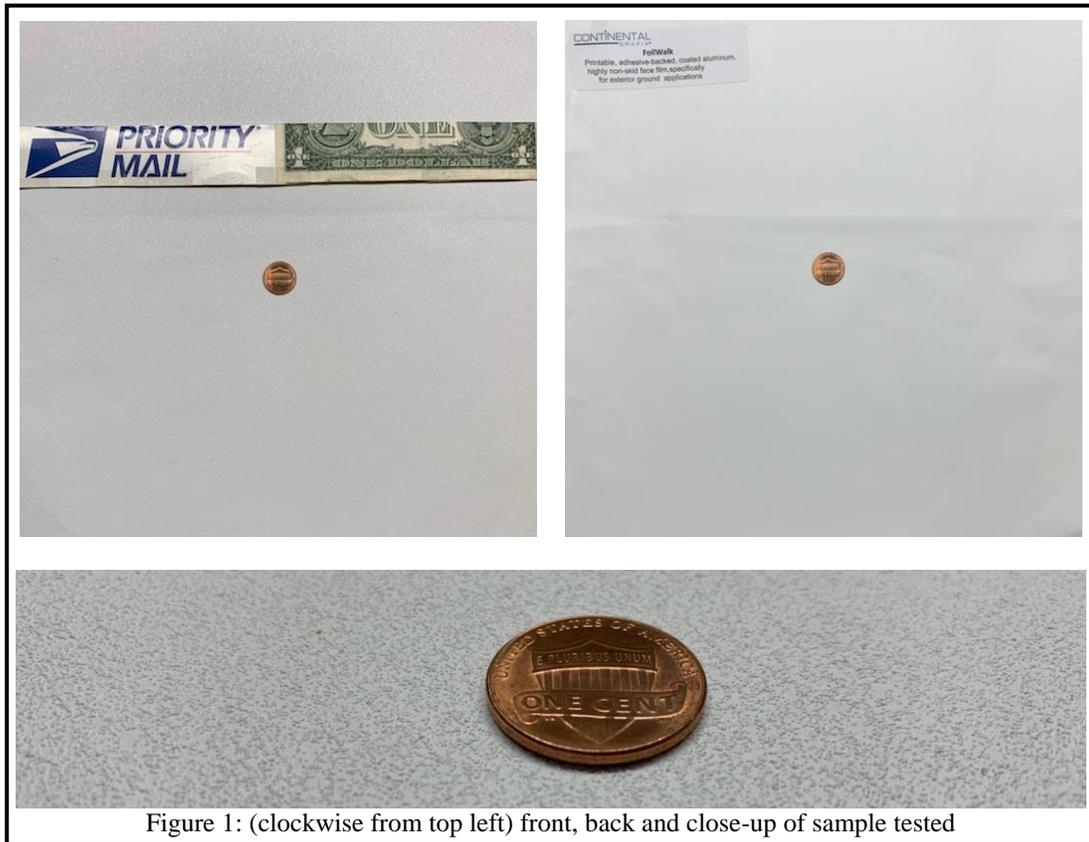
Flooring: **FoilWalk**

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Test no.: 2103-0321

Date tested: 3/3/2021

Figure 1 shows the sample. Red, green, blue, and white color references are included, with a U.S. penny (1/16 inch thick) for scale. The back of the sample is included to aid in positive identification.



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Flooring: **FoilWalk**

**ANSI A137.1/A326.3 Dynamic Coefficient of Friction Test**

The American National Standards Institute (ANSI) published the A137.1-2012 American National Standard test for measuring dynamic coefficient of friction (DCOF) of common hard-surface indoor level floor materials in 2012. This ANSI standard was incorporated as a requirement in “Section 2103.6 Ceramic Tile” of the 2012 International Building Code published by the International Code Council. (It was removed for the next edition in 2015.) That section states that “Ceramic tile shall be defined in, and shall conform to the requirements of, ANSI A137.1.” ANSI published A326.3 in 2017, which uses the same test method as A137.1, but allows for all hard flooring materials to be tested, adds some disclaimers, and describes the method for testing in the field.

**Average Dynamic Coefficient of Friction (DCOF), cleaned with Renovator #120, and tested with BOT-3000E digital tribometer using SBR rubber slider and 0.05% SLS water solution:**

**Sample #1 Dry:** 0.89, 0.91, 0.91, 0.89; **Avg. = 0.90; Wet:** 0.84, 0.84, 0.81, 0.85; **Avg. = 0.84**

**Sample #2 Dry:** 0.91, 0.89, 0.87, 0.89; **Avg. = 0.89; Wet:** 0.86, 0.83, 0.82, 0.83; **Avg. = 0.84**

**Sample #3 Dry:** 0.91, 0.90, 0.91, 0.88; **Avg. = 0.90; Wet:** 0.83, 0.82, 0.83, 0.83; **Avg. = 0.83**

**Overall average: Dry: 0.90; Wet: 0.84**

**T = 59 degrees F; Relative humidity = 49%; BOT recalibration due July 2, 2021**

**BOT-3000E strain gauge verified on day of test.**

**ANSI A326.3: DCOF on validation surface (10.1.7) before/after testing and whether in range: passed/passed**

High dynamic coefficient of friction values indicate potentially good traction. The ANSI A326.3 standard, Section 3.1, states that

“Unless otherwise specified, hard surface flooring materials suitable for **level interior spaces expected to be walked upon wet with water shall have a wet DCOF of 0.42 or greater** when tested using SBR sensor material and SLS solution as per this standard. However, hard surface flooring materials with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine materials appropriate for specific project conditions, considering by way of example, but not in limitation,

“type of use,  
traffic,  
expected contaminants,  
expected maintenance,  
expected wear, and  
manufacturers’ guidelines and recommendations.”

“... The presence on installed hard surface flooring materials of water, oil, grease, and/or any other elements which reduce traction, creates slippery conditions ... Applications with exposure to such elements require extra caution in product selection, use, and maintenance. ... When tested using SBR sensor material and SLS solution as per the procedure in this standard, hard surface flooring materials with a wet DCOF of less than 0.42 shall only be installed when the surface will be kept dry when walked upon and proper safety procedures will be followed when cleaning the hard surface flooring materials.”

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ANSI A326.3 further states, “The coefficient of friction (COF) measurement provided in this standard is an evaluation of hard surface flooring materials under known conditions using a standardized sensor material prepared according to a specific protocol. As such **it can provide a useful comparison of surfaces, but does not predict the likelihood a person will or will not slip on a hard surface flooring material.**”

This standard has no recommendations for outdoor floors or for ramps.

Respectfully submitted,  
SOTTER ENGINEERING CORPORATION



J. George Sotter, P.E., Ph.D.  
President

