



Sitefox Test Report Number: 10282024-01 Test Date: 10/28/2024

TEST REQUESTED BY: Test Client

ADDRESS OF TEST:

TEST SUBJECT MATERIAL: Identified by client as: Porcelain Tile

TEST PROCEDURE: ASTM E303-22 Dynamic Coefficient of Friction (DCoF)

- One (1) piece of 24" x 24" porcelain tile was tested Wet and Dry in two directions South to North, and East to West.
- Rubber contact travel distance was 126 mm or 4.96" using a hard rubber slider pre-sanded with a 400 grit sandpaper.
- Testing was performed under interior dry conditions without SLS solution and wet conditions using 0.05% SLS solution distilled water for simulation.
- Testing was conducted at approximately 66°F and 79% relative humidity using a calibrated BM-III Pendulum Coefficient of Friction Test device. This test method provides a measure of frictional property, micro texture of surfaces, either in the field or in the laboratory and recognized and published peer review in at least 50 nations for the past 51 years.

TEST RESULTS: The individual and average DCoF data for each sample were as follows:

Direction	East to West Sample Dry	East to West Sample Wet	South to North Sample Dry	South to North Sample Wet
Direction 1 Test 1	0.91	0.15	0.86	0.16
Direction 1 Test 2	0.89	0.14	0.86	0.15
Direction 1 Test 3	0.91	0.14	0.85	0.13
Direction 1 Test 4	0.89	0.14	0.86	0.14
Average PTV (BPN)	0.9	0.142	0.857	0.145

Min. PTV (BPN) for wet surfaces in external shopping centers with external entrances is 0.35

Wes Shaw, Managing Director

10/28/2024



TEST METHOD:

ASTM Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester¹

3. Summary of Test Method

3.1 This test method consists of using a pendulum-type tester with a standard rubber slider to determine the frictional properties of a test surface.

3.2 The test surface is cleaned and thoroughly wetted prior to testing.

3.3 The pendulum slider is positioned to barely come in contact with the test surface prior to conducting the test. The pendulum is raised to a locked position, then released, thus allowing the slider to make contact with the test surface.

3.4 A drag pointer indicates the British Pendulum (Tester) Number. The greater the friction between the slider and the test surface, the more the swing is retarded, and the larger the BPN reading. Four swings of the pendulum are made for each test surface.

E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
(astm.org)

Wes Shaw, Managing Director

10/28/2024