

**TorTest<sup>SM</sup> Floor Friction Testing Service**  
**SOTTER ENGINEERING CORPORATION**  
Consultants

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

*Approved by the City of Los Angeles  
for testing slip resistance of flooring*

**Flooring Slip Resistance Test Results — Pendulum**

Client: **Skudo USA Inc.**

Report date: 9/15/12

Flooring: **LT Skudo mat (Beige) mounted on fiber board**

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Sample no.: 1209-1411

Pieces tested: 1

Date tested: 9/15/12

Size: 13 inches x 13 inches

How and when sample obtained: Supplied by client 9/14/12

**Ceramic Tile Institute of America pendulum test based on ASTM E 303**

**Pendulum Test Value, as received, with Four S rubber slider:**

**Dry: 71**

**Wet: 50**

Results apply only to the sample tested. High Pendulum Test Values indicate potentially good traction. The Ceramic Tile Institute of America recommends, for low slip potential, a **minimum** pendulum test value of **36** for level floors when determined using a Four S (Standard Shoe Sole Simulating) rubber. Slip resistance can be affected by factors such as floor coatings, detergents, contamination, chemical treatments, and wear. Values of 25-35 are classed as "moderate slip potential". Values of 0-24 have "high slip potential".

For reference: peak-to-valley total mean roughness by Surtronic 10 profilometer: **69** microns. (25 microns = 0.001 inch)

A video demonstration of the pendulum tester can be found at  
[safetydirectamerica.com/Pendulumfloortesting.html](http://safetydirectamerica.com/Pendulumfloortesting.html)

Respectfully submitted,  
SOTTER ENGINEERING CORPORATION



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



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