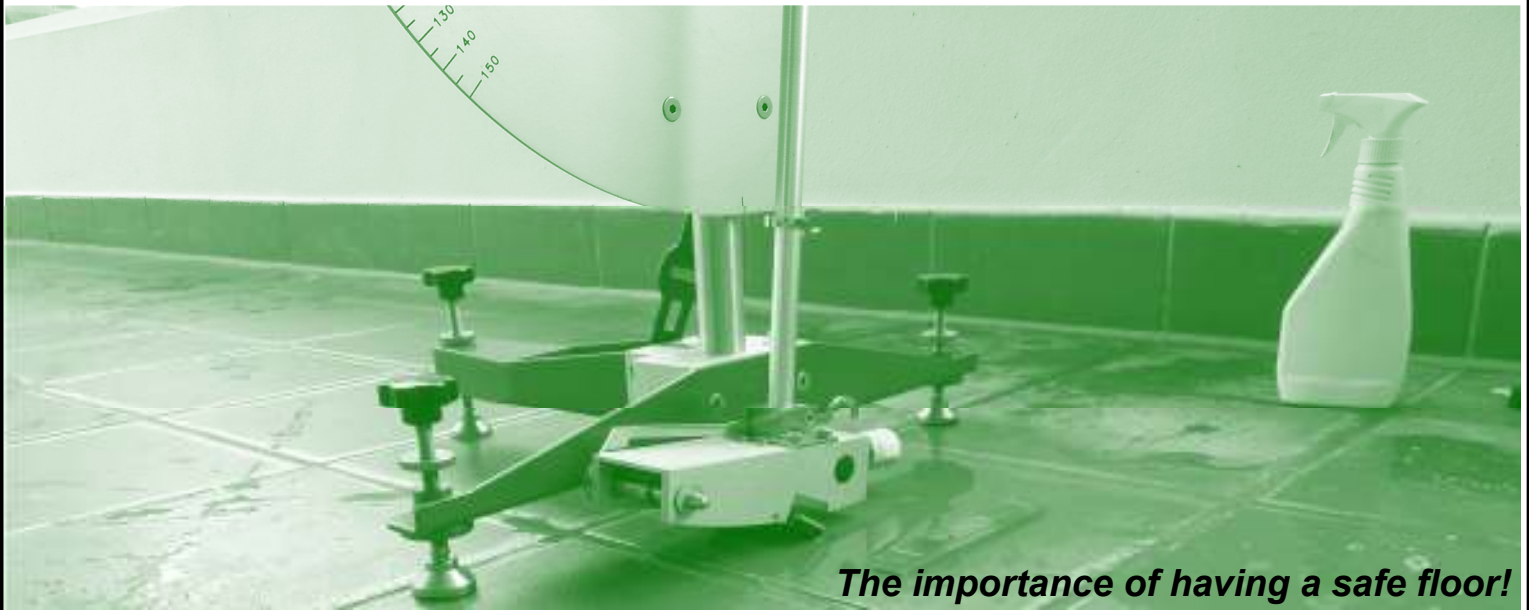




Floor Safety Consultants



The importance of having a safe floor!

Slip Test Report

Produced for:



ALHAMBRA TILES

Alhambra Tiles, 148 Kirkdale, London, SE26 4BB

www.safestepuk.co.uk



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BS 7976:2 PENDULUM SLIP TEST REPORT

In- House Testing: Sample Tiles

Site address:

In-house Testing
Safe Step UK Ltd
Unit 22,
Cwm Cynonh Business Park,
Mountain Ash,
CF45 4ER

Contact:

Rebecca Leathlean
Proprietor
Alhambra home & Garden

Report carried out by:

Phil Collins
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Safe Step UK Ltd
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Date of Test:

7th July 2014



Slip Test Report — Theory – Alhambra Tiles

A series of slip tests were carried out in accordance with H & S guidelines, using a Pendulum Slip Tester. I confirm that I have been trained by the manufacturer of the Pendulum Slip Tester, and that I carried out the tests in a manner recommended by them.

Theory

Research carried out by the Health & Safety Laboratory, in conjunction with the UK Slip Resistance Group (UKSRG) has shown that it is possible to assess the characteristics of floor surface materials needed for satisfactory slip resistance. The Health and Safety Laboratory has developed a reliable and robust test method that forms the basis of Safe Step (UK) Ltd report procedure.

The Pendulum COF test forms the basis of the coefficient of dynamic friction measurement of a floor. A calibrated “foot” swings from a horizontal point of release, strikes the flooring surface for a known distance then reads the “pendulum test value” on it’s over swing. The rubber slider that contacts the floor is constructed of “4S” rubber (standard simulated shoe sole) and is designed to replicate the most common slipping motion experienced by pedestrians wearing shoes. A softer more malleable rubber (TRL rubber) may be used to simulate a barefoot or casual shoe slip. Pendulum testing is one of the few methods that model the formation of a hydrodynamic squeeze film between the floor and shoe sole, a major factor in a wet slip.

A site assessment is an important component in determining the slip risk of any given floor. The HSE pedestrian slip potential model highlights important environmental factors in a slip. Contaminating substances, frequency and methods of cleaning, types of footwear and likely pedestrian behaviour all affect the potential for a slip incident.

The above assessment was carried out by Safe Step UK Ltd adhering to UKSRG, HSE and CIRIA guidelines on pedestrian slip risk assessment. The results given are accurate representations of data acquired on site and through the client. The results have been interpreted to give slip risk classifications based on parameters recommended by the UKSRG and HSE.

Key to pendulum test results (as per HSE guidance sheet ‘Slips and Trips’)

	Pendulum test value (PTV)
High slip potential	0 – 24
Moderate slip potential	25 – 35
Low slip potential	36 and over

Date of Test: 7th July 2014

Areas Tested/Observations – Alhambra Tiles

Sample Tiles



(#1)

The blue tile tested was noted to have 2 coats of Bellatrix Natural Solvent-Based seal, applied to the tile. The tile was tested in 3 directional swings, using the #96 slider. In dry & simulating wet conditions.



(#2)

The Beige/Red tile was tested and noted to me as a 'Mitrol' seal applied to the tile. As previous the tile was tested, 3 directional swings using the #96 slider. In dry & simulating wet conditions.



Summary of Dry Test Results – Alhambra Tiles

Test area	Maintain and monitor	Maintain and monitor closely	Near failure. Consider remedial work before incident occurs	Failed. Take immediate action to resolve
	Low slip potential	Moderate slip potential		High slip potential
#1	65			
#2	69			

Detailed Dry Condition Tests – Alhambra Tiles

Test area	Test Result Values			Mean PTV
#1	67	64	63	65
#2	70	69	67	69

Key to pendulum test results (as per HSE guidance sheet ‘Slips and Trips’)

	Pendulum test value (PTV)
High slip potential	0 – 24
Moderate slip potential	25 – 35
Low slip potential	36 and over

Test equipment is calibrated by a BSI approved calibrator. Test results produced by Safe Step (UK) Ltd.

Date: 7th July 2014



Floor Safety Consultants

Summary of Wet Test Results – Alhambra Tiles

Test area	Maintain and monitor	Maintain and monitor closely	Near failure. Consider remedial work before incident occurs	Failed. Take immediate action to resolve
	Low slip potential	Moderate slip potential		High slip potential
#1	40			
#2	50			

Detailed Wet Condition Tests – Alhambra Tiles

Test area	Test Result Values			Mean PTV
#1	41	40	40	40
#2	50	48	51	50

Key to pendulum test results (as per HSE guidance sheet 'Slips and Trips')

	Pendulum test value (PTV)
High slip potential	0 – 24
Moderate slip potential	25 – 35
Low slip potential	36 and over

Sufficient water was applied to the floor area to simulate a spill in accordance with the Pendulum manufactures' instructions. Test equipment is calibrated by a BSI approved calibrator. Test results produced by Safe Step (UK) Ltd.

Date: 7th July 2014



Conclusion/Recommendations – Alhambra Tiles

The sample tiles with each treatment shows a 'Low Risk' in 'Dry' & 'Wet' conditions, to HSE guidelines. (as per HSE slips information sheet). Slider Verification was validated prior to testing due to being new #96 slider used and was verified on the pink lapping film, float glass, and pavigress tile in according with UK Slip resistance group guidelines and HSE/HSL laboratory testing.

The testing took place in test conditions on what was sent to me was noted to me being new tile with treatments added to the surface, as numbered #1 & #2 in this report I recommend that a further test be carried out with the client after 3 months after the tiles have been installed to certain areas after trafficked to see any factors regarding the slip risk i.e. Contamination/cleaning chemicals etc.

Should you require clarification or further information on the report procedure do not hesitate to contact me.

The above assessment was carried out by Safe Step UK Ltd adhering to UKSRG, HSE and CIRIA guidelines on pedestrian slip risk assessment. The results given are accurate representations of data acquired on site and through the client. The results have been interpreted to give slip risk classifications based on parameters recommended by the UKSRG and HSE.

Yours faithfully,

P.L. Collins

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Date of Test: 7th July 2014