



# Floor Testing Certificate

## SlipTest Ltd

certifies that the floor surfaces at

## Senso UK

have been professionally tested for slip resistance in accordance  
with the latest HSE guidelines, on the following dates:

Test Number	Date	Technician	Tested
1	29/11/22	Mike Macdonell	<b>Tested</b>
2	29/05/23		<b>Due</b>

**SlipTest Ltd**  
The Park,  
Weston Underwood,  
Buckinghamshire,  
MK46 5JZ



## General Information

Test Method	Date	Property Type	Technician
Pendulum	29/11/22	Lab Testing	Mike Macdonell

## Technician Summary and Recommendations

All surfaces were tested both wet and dry using the Pendulum in Lab conditions.

All samples recorded a low risk of slip in dry conditions.

Three of the tiles recorded a low risk in wet conditions.

The CREAM PR4000 showed a moderate risk when wet.

Whilst the three other tiles showed higher slip resistance when dry, it is important to take the results in the round.

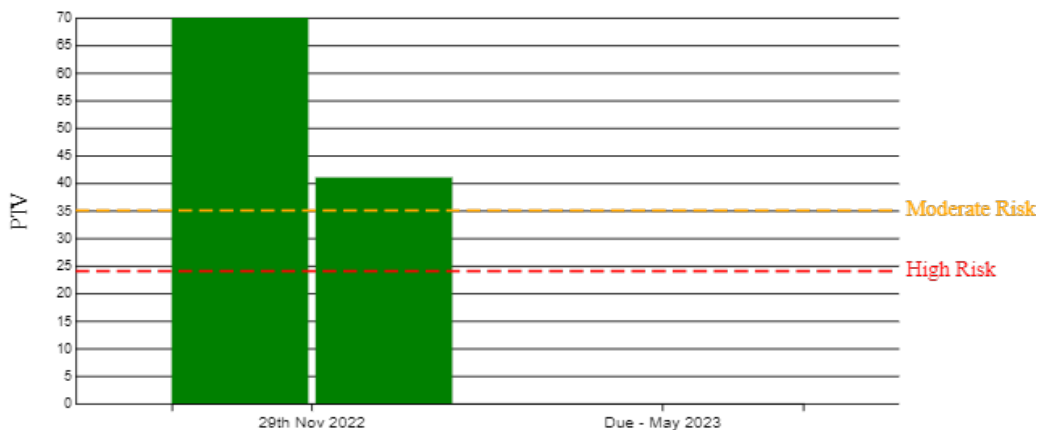
Of the 4 tiles tested the most balanced demonstration of slip resistance in both wet and dry conditions was recorded by the S 4030Y40R PR4000, with PTVs of 64, dry and 52, wet.

## Average Results Comparison

Average test (PTV) results for this test compared to previous test results.

Right bar: Wet  
Left bar: As found

High risk of slip: 0 - 24  
Moderate risk of slip: 25 - 35  
Low risk of slip: 36 +



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## Averaged Location Results

Location	PTV (As Found)	PTV (Wet)
CREAM PR4000	78	35
3502Y PR4000 HIGH TRAFFIC	66	41
CRESCENT MOON PR4000	70	37
S 4030Y40R PR4000	64	52

## Environmental Survey

Predominant Surface	Composite
Other Surfaces	N/A
Surface Contamination	None
Contamination Amount	None
Contamination Source	Lab Test
Footwear Controls	Lab Test
Floor Usage	Pushing/Pulling, Pedestrians Carrying Loads, Rushing Pedestrians, All pedestrians including Elderly/Very Young, Pedestrians with disabilities
Environmental Factors	N/A
Signage	N/A
Cleaning	

## Matting

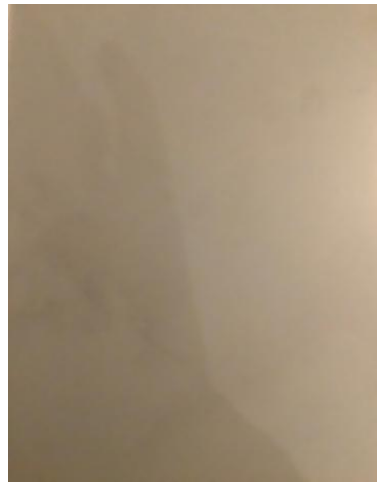
Location	Matting Type	Number of Mats	Length	Condition
CREAM PR4000	Loose	0	-	-
	Fixed	0	-	-
3502Y PR4000 HIGH TRAFFIC	Loose	0	-	-
	Fixed	0	-	-
CRESCENT MOON PR4000	Loose	0	-	-
	Fixed	0	-	-
S 4030Y40R PR4000	Loose	0	-	-
	Fixed	0	-	-

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# CREAM PR4000

Floor Type:

Composite



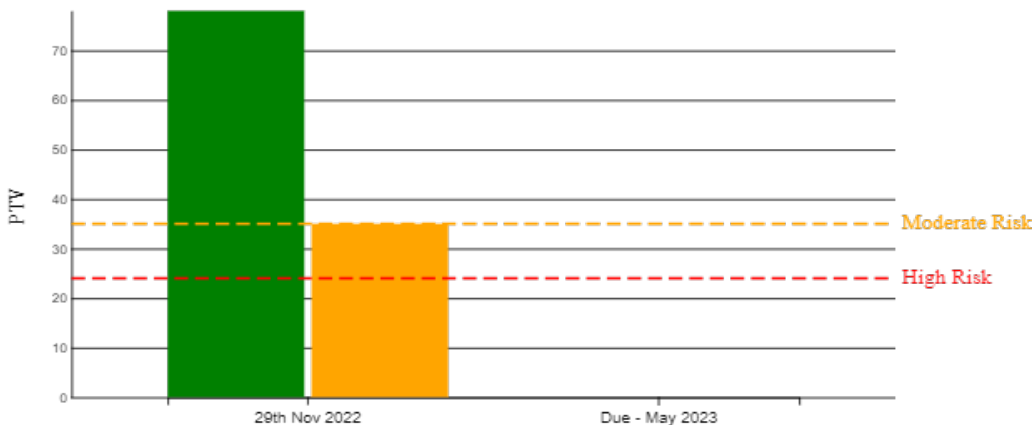
Test	Direction	1	2	3	4	5	Ave
As Found/ Dry	Along/Down	85	85	86	84	88	86
	Across	80	76	74	74	75	76
	Diagonal	75	75	73	73	73	74
Wet	Along/Down	35	34	32	32	30	33
	Across	39	35	34	30	33	34
	Diagonal	35	35	37	40	38	37

## Performance Over Time

Right bar: Wet

Left bar: As found

High risk of slip: 0 - 24 ■  
 Moderate risk of slip: 25 - 35 ■  
 Low risk of slip: 36 + ■



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# 3502Y PR4000 HIGH TRAFFIC

Floor Type:

Composite



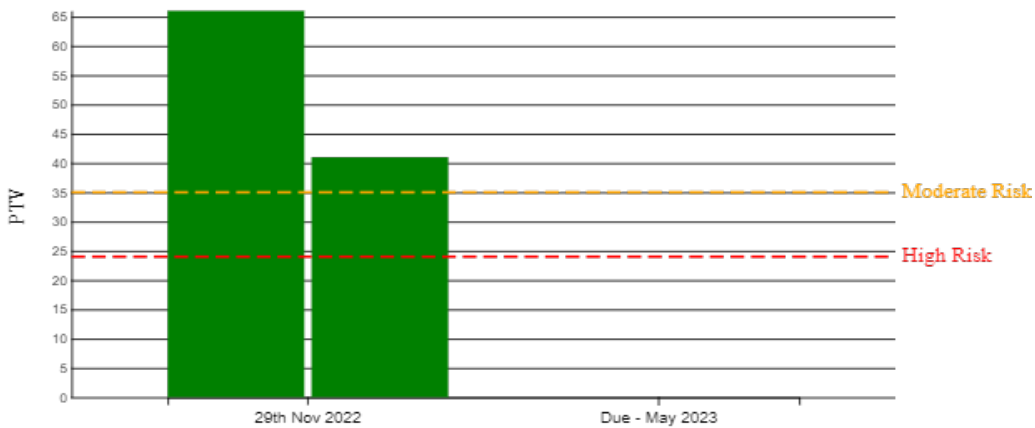
Test	Direction	1	2	3	4	5	Ave
As Found/ Dry	Along/Down	65	67	70	69	68	68
	Across	63	62	65	65	65	64
	Diagonal	65	65	65	66	66	65
Wet	Along/Down	41	43	42	40	40	41
	Across	40	40	41	43	41	41
	Diagonal	43	42	42	40	40	41

## Performance Over Time

Right bar: Wet

Left bar: As found

High risk of slip: 0 - 24 ■  
 Moderate risk of slip: 25 - 35 ■  
 Low risk of slip: 36 + ■

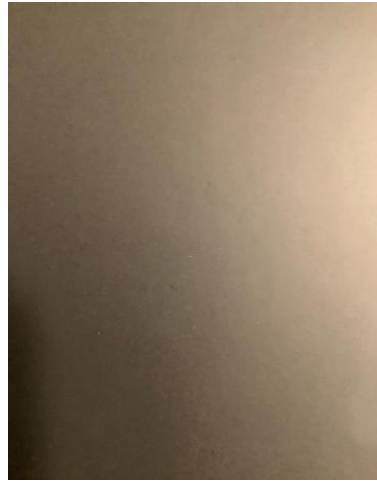


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# CRESCENT MOON PR4000

Floor Type:

Composite



Test	Direction	1	2	3	4	5	Ave
As Found/ Dry	Along/Down	70	71	69	72	72	71
	Across	65	65	65	67	64	65
	Diagonal	75	75	75	75	76	75
Wet	Along/Down	40	38	38	40	40	39
	Across	35	36	35	35	35	35
	Diagonal	35	36	35	34	36	35

## Performance Over Time

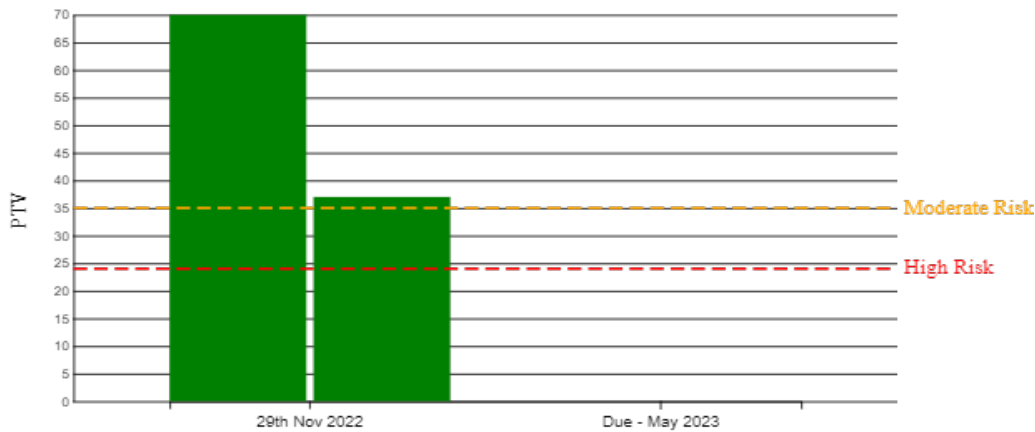
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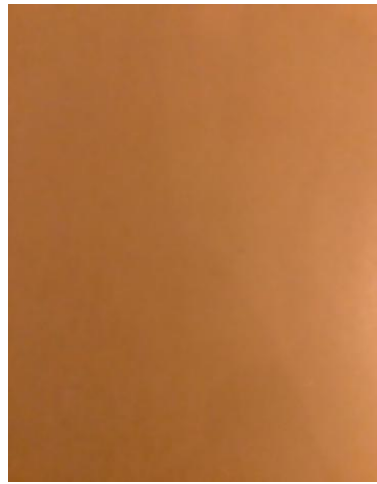
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# S 4030Y40R PR4000

Floor Type:

Composite



Test	Direction	1	2	3	4	5	Ave
As Found/ Dry	Along/Down	65	64	63	65	65	64
	Across	65	65	65	62	65	64
	Diagonal	64	63	65	64	63	64
Wet	Along/Down	55	56	55	55	55	55
	Across	50	51	50	52	51	51
	Diagonal	51	51	50	53	50	51

## Performance Over Time

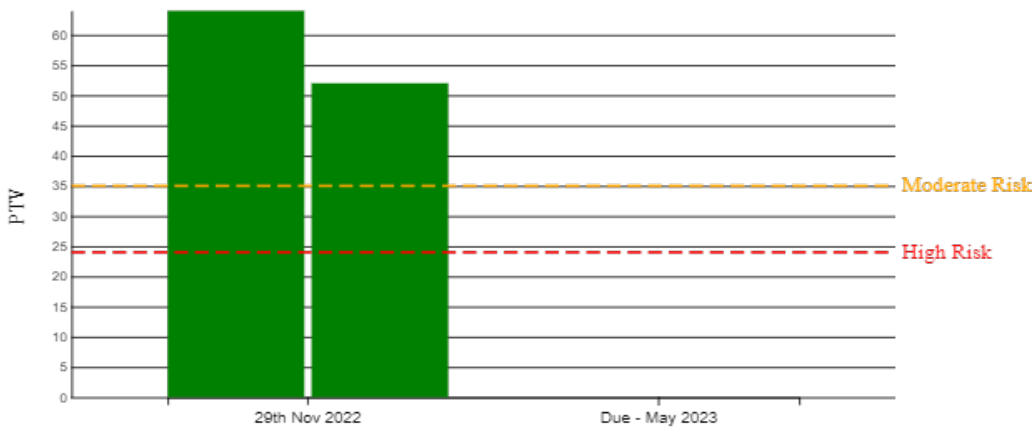
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## Test Method

### Pendulum

#### The HSE on the Pendulum:

“Research has confirmed the Pendulum to be a reliable and accurate test, leading to its adoptions as the standard HSE test method for the assessment of floor slipperiness in dry and contaminated conditions”

**Pendulum testers at SlipTest Ltd are operated and calibrated according to British Standard BS 7976 Parts 1-3: 2002.**

The pendulum was originally designed in the 1940's to test the skid resistance of road surfaces and adapted by a BSI committee lead by Dr Malcolm Bailey in 1970's to test floor surfaces by simulating the action of a slipping foot.

The method is based on a swinging imitation heel (using a standardised rubber sole), which sweeps over a set area of flooring. Each sweep of the simulated heel is carefully controlled and measured by a skilled technician. The pendulum measures the resistance, and thus the coefficient of friction, between the simulated heel and the floor surface.

Measurements are taken in both “as found” and wet conditions using tap water.

The combination of a standard rubber sole and an exact method of testing produces consistent test results, which give an accurate indication of the slipperiness of floor surfaces in situ.

## Test Method

### SlipAlert

#### The HSE on SlipAlert:

“When operated correctly, the SlipAlert test produces valid results and is a useful tool for obtaining a simple measure of Coefficient of Friction risk assessment and monitoring of floor surfaces and cleaning regimes.”

#### The Method:

The SlipAlert was designed in the early 2000's by Dr Malcolm Bailey, to behave in the same way as the heel of a shoe as it slips across the floor. The weight, size and speed of the SlipAlert machine are all carefully calibrated to combine together to simulate the movement of a heel passing across the surface.

The simple operation of the SlipAlert ensures the accuracy of its test results. The operator positions the machine at the top of the ramp and allows it to run down and roll across the floor. The ‘slider’ (simulated heel) drags across the floor and the distance travelled is recorded.

That distance reading is converted into a standard measurement of slip resistance - the Pendulum Test Value (PTV).

Measurements are taken in both “as found” and wet conditions using tap water.

The combination of a standard rubber heel and a standard speed off the ramp results in consistent test results, which can be used to obtain an accurate measure of the slipperiness of flooring in situ.

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## Test Method

### Surtronic Duo Roughness Tester

#### The HSE on the Roughness Tester:

“Research has shown that the Rz roughness parameter gives a good indication of floor slipperiness in water-contaminated conditions”

#### The Method:

The Surtronic Duo Roughness Tester measures how rough the surface of a floor is. A diamond stylus is drawn across the floor and the height and depth of the microscopic peaks and valleys of the surface are recorded.

To have a low slip potential when wet, a floor needs to be ‘rough’ enough for the pedestrian’s heel to break through the water and make direct ‘solid-to-solid’ contact with the peaks in the floor surface.

Measurements are taken in “as found” conditions.

Wherever possible, roughness measurements should be used in conjunction with Pendulum or SlipAlert slip resistance tests and in the context of the Health and Safety Executive Slip Assessment (SAT). A roughness reading on its own is rarely a good indicator of floor safety.

## Test Method

### SlipTest Environmental Summary incorporating the HSE SAT test

The SlipTest Environmental summary is based on the HSE SAT test, the Environmental Summary also incorporates further measures that SlipTest have implemented to include observing the surroundings, considering any signage in place, as well as the site specific environment.

What is the HSE SAT Test?

“The Slips Assessment Tool (SAT) is a computer software package that allows an operator to assess the slip potential of pedestrian walkway surfaces”

#### The Method:

The HSE SAT is used by SlipTest Ltd to collect information about the floor surface that is tested and the environment surrounding it. The standard template for data collection ensures consistency of information from one test to another.

Numerous factors that affect the likelihood of a pedestrian slip are considered by the system, such as the floor cleaning regime, the presence of contamination on the floor surface and the pedestrian use of the area.

The SAT Test also incorporates the roughness readings produced by the Surtronic Duo roughness tester. All the information is weighted, simply processed in accordance with HSE HSE guidelines, and presented as a single figure. The scale used is arbitrary, and does not directly represent the frictional properties of the flooring; however, it provides a useful guide to the safety of the flooring within its environment.

As a guide, a SAT Test value of zero represents a low slip risk and a value over 40 represents a high slip risk.

SlipTest Ltd only uses the HSE SAT Test in conjunction with a Pendulum or SlipAlert slip resistance test in order to gather as much information as possible about the floor surface, before assessing the risk of slipping.



## **Floor Safety Testing and Slip Resistance. British Standards and Legal framework. British Standards**

1. BS 1134 -1  
Method for the assessment of surface texture - Part 1:  
Method and implementation
2. BS 7976 -1  
2002 – Pendulum Testers  
Specification
3. BS 7976 -2  
2002 – Pendulum Testers  
Method of operation
4. BS 7976 -3  
2002 – Pendulum Testers  
Method of calibration
5. BS 8204 -6  
2001+A1:2010 – Screeds, bases and in situ floorings. Synthetic resin floorings.

### **Code of practice Legal Framework**

1. The Health and Safety at Work etc. Act 1974 Section 2(2)(d)
2. The Workplace (Health, Safety and Welfare) Regulations 1992 Regulation 12(2)(a)
3. The Assessment of Floor Slip Resistance – Issue 3 United Kingdom Slip Resistance Group 2005

No responsibility for loss or injury occasioned as a result of any person acting or refraining to act as a result of this report, the test results therein or the adjoining documentation will be accepted by SlipTest Ltd.

### **Why do you need regular floor testing?**

#### Duty of Care

As a public access space you have a legal duty to ensure that you have taken all reasonable measures to ensure the safety and well-being of the members of the public who walk on your floors.

#### Reduced Compensation Claims for Slips and Trips

Spurious claimants are much less likely to pursue claims, when they realise that you have a regular certificated floor safety testing programme.

#### Lower Insurance Premiums

The majority of insurance companies will discount their insurance premiums for public liability if they know that you have a routine floor safety test programme.

#### Early Warning of Floor Degradation

Your regular tests will highlight any gradual degradation of your floor surfaces, giving you more time to plan for refurbishment or replacement work.

#### Peace of Mind

The SlipTest Ltd routine test is the most comprehensive in the industry. You can be secure in the knowledge that you are discharging your legal duty of care by regularly assessing the slip potential of your flooring.

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