



SLIPALERT USER GUIDE

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Quick and Easy Floor Testing

- a) Unfold ramp and switch on SlipAlert (**red light**)
- b) Pull SlipAlert to top of ramp (**green light**)
- c) Release. When SlipAlert stops read SlipAlert Test Value (STV).

Repeat steps b and c three times to ensure accuracy.

SlipAlert fast easy and accurate floor testing.

The only easy to use test machine proven to correlate (wet and dry) with TRL Pendulum. Tested by UK HSE/HSL and recommended by Pendulum manufacturers.

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www.slipalert-usa.com



First time user...

Familiarize yourself with operating instructions and safety warnings before using SlipAlert.

INTRODUCTION AND WELCOME...

Thank you for choosing SlipAlert the quick, easy and accurate way to measure the SlipAlert Test Value (STV) of your floors (roads, runways or any walkways)

Standard Contents

- ❖ Robust SlipAlert carry case
- ❖ SlipAlert and ramp
- ❖ Spare slider
- ❖ Wire wool (for use if slider damaged by rough surfaces)
- ❖ Allen key (for changing slider)
- ❖ Spare battery
- ❖ User Guide (this document)

Please read through this user guide to familiarize yourself with best practice in use of SlipAlert and best practice in measuring floor safety. SlipAlert is designed for easy use and we hope you will rarely need to refer to this user guide.

"...a quick slipperiness test that actually works. In terms of operation, SlipAlert is very simple and user friendly."
UK HSE

Quick and Easy Floor Testing

- a) Unfold ramp and switch on SlipAlert (**red light**)
- b) Pull SlipAlert to top of ramp (**green light**)
- c) Release. When SlipAlert stops read SlipAlert Test Value (STV).

Repeat steps b and c three times to ensure accuracy.

SlipAlert results (wet and dry) correlate with TRL Pendulum

Warnings: *SlipAlert and its carry case are heavy. Please transport it carefully. Always check SlipAlert before use. SlipAlert, the ramp and the carry case can cause a trip hazard if left unattended. Use SlipAlert for floor measuring only. SlipAlert LLP accepts no liability for inappropriate or negligent use.*

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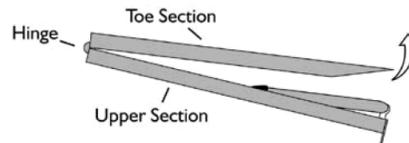
PREPARATION...

Before measuring with SlipAlert...

Carefully assemble ramp, check wheels, battery and slider.

Ramp assembly

- ❖ Carefully unfold ramp and locate shoot bolts
- ❖ Unfold legs, clip in place and lock
- ❖ Carefully stand ramp on the flat surface to be measured



Warnings: Take care not to trap fingers when unfolding and assembling ramp. Take care not to leave ramp unattended. You should allow 2m clearance in front of base of ramp. SlipAlert will travel about 18 inches (45cm) on a very safe floor but will travel further on slippery floors.

SlipAlert Wheel check

All four wheels should turn freely. If SlipAlert has been dropped or damaged or the wheels are out of alignment this may invalidate test results. Use the calibration self-check (see caring for your SlipAlert) or consult with your SlipAlert supplier.

Battery Check

Standard pp9 battery installed and ready to switch on.

Note: ensure SlipAlert is switched off before changing the battery. The display is powered by its own battery (lasts 10 years) and is always on.

Slider Check

Slider should be properly secured, free from dirt or debris. When slider wear reaches fixing point rotate 180 degrees or replace with new slider.

Important Note: Measurements from first 3 runs with a new slider should be ignored.

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MEASURING FLOORS...

Measuring floors with SlipAlert is quick easy and accurate.

- a) Unfold ramp and switch on SlipAlert (**red light**)
- b) Pull SlipAlert to top of ramp (**green light**)
- c) Release. When SlipAlert stops read SlipAlert Test Value (STV).

Repeat steps b and c three times to ensure accuracy. Each reading should be within 1 or 2 points of the others.

3 steps to floor safety

Any floor that causes concern (feels slippery, slip accidents occur etc) should be measured.

1. test floors whenever there is an accident or near miss
2. test periodically (monitor results for any unexpected changes)
3. test floors when they change: polishing, re-coating, chemical spillage etc

The benefits of measuring changes to a floor...

Understanding the safe operating parameters of your floors and having a reliable early warning of changes to floors will enable you to take appropriate action and to reduce slip accidents.

Keep records of the SlipAlert Test Value (STV) of your floors and monitor changes over time. This will highlight the effects of wear on different floor surfaces, the effectiveness of coatings, and the effectiveness of your cleaning regime. Understanding these factors will help you make informed decisions that improve floor safety and will help to eliminate poor operational practices that may have increased the risk of slip accidents.

Month	M1	M2	M3	M4	M5	M6	
SlipAlert Measure	126	127	126	128	127	133	

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TESTING FLOORS...

Wet and dry floors

Floors should be tested in the wet/dry or both depending on how the floor is used. Most floors are designed for use in the dry. Some floors such as pool-sides, shower areas or changing room floors will often be wet. If you are testing a floor that is mostly dry but can become wet then it is helpful to know how much the SlipAlert Test Value (STV) changes in the wet.

Note: when switching between dry testing and wet testing, the first result with a dry slider will be different from the 3 subsequent results where both slider and floor are wet. The 3 subsequent tests simulate the worst case where the heel of the shoe is wet and strikes a wet floor surface.

Averaging... and changing floor surfaces

A key feature of SlipAlert is that it is designed to give you an easy guide to the slip resistance over a large area of floor. This makes testing very quick and very easy. However care should be taken when testing across more than one flooring surface. Where possible take SlipAlert readings on a single surface.

Note: SlipAlert gives a very good indication of effective slip resistance on tiles. You should be aware that a stiletto heel striking exactly at the edge of a tile will probably slide slightly before finding grip in the grout or the next tile.

The Science of Slipping

The science of slipping is complex and so you may find it useful to consult a specialist in floor safety. SlipAlert was invented by Dr Malcolm Bailey. SlipAlert LLP will be happy to help you find the information or advice that you need.

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CARING FOR YOUR SLIPALERT

Your SlipAlert is built to last. It is designed for low maintenance. All you should need to do is keep it clean, check the battery and slider, and store your SlipAlert safely to avoid damage.

Calibration Service

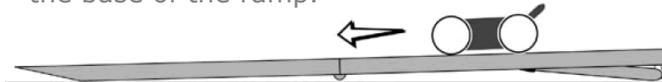
Your SlipAlert does not require calibration in the same way that many mechanical instruments do. If the wheels turn freely SlipAlert must obey the laws of physics and will give consistent readings just like a steel tape measure. Your SlipAlert should give consistent and accurate readings for many years.

However, in line with UK HSE advice, we now offer a SlipAlert calibration service.

Self-Calibration

Checking that the wheels are turning freely is very easy.

- 1) Hold SlipAlert and spin each wheel independently. They should each spin freely.
- 2) Assemble ramp but without the legs raised. Lay the ramp on a flat surface. The ramp will have a slight angle, just enough for the SlipAlert to roll from the top of the ramp to the base of the ramp.



- 3) Distance from top to toe of ramp should read 68 ± 1 .

Warranty and maintenance

Your SlipAlert comes with a 1 year warranty on all parts. It should last for many years.

Contacts

Your local SlipAlert supplier should be able to help you with calibration, service or repair issues or you can contact us directly info@SlipAlert.com

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YOUR QUESTIONS ANSWERED

What can go wrong?...

- Q** *I have measured the floor 4 times, three readings are the same but the first was different.*
- A** *The first reading may have been different if you were measuring a wet floor and the SlipAlert slider was dry.*
- Q** *I have checked the wheels on SlipAlert and one of the back wheels appears to be sticking*
- A** *Your SlipAlert has been damaged and this will affect the result. This can usually be corrected very easily, contact your supplier for advice.*
- Q** *Can I measure the slip resistance of a sloping floor?*
- A** *Yes. Use the SlipAlert Inclinator for an accurate measure of the slip resistance of the floor surface. Remember you will need greater slip resistance for safe walking on a sloping floor. Refer to our website or contact us info@slipalert.com for details.*
- Q** *Can I use SlipAlert to measure the effect of other contaminants such as oil on my floor?*
- A** *Yes. SlipAlert can be used to measure the effect of other contaminants (oil, mayonnaise, dust etc) on the SlipAlert Test Value (STV) of a floor. However when testing floors with other contaminants care should be taken to ensure SlipAlert wheels do not become contaminated. Clean the slider between each use.*



SLIPALERT SLIDER PADS

SlipAlert can be used with different slider pads to suit different purposes. These include:

- ❖ 4S Slider (*comes with special instructions for precision testing*)
- ❖ SlipAlert Durable Slider
- ❖ TRL Slider
- ❖ Leather Slider

The slider pad is designed to replicate the effects of a shoe heel striking the floor. You should use the slider most appropriate to your needs and the particulars of the floor you are testing.

4S Slider...

Specially formulated by the Rubber And Plastics Research Association (RAPRA) for use with the Pendulum. The UK HSE recommends the use of the 4S slider with SlipAlert for optimal correlation with Pendulum results.

SlipAlert Durable Slider

Our most popular slider pad, cheaper and designed for durability, this slider still has excellent correlation with Pendulum test results.

TRL Slider

Used to simulate soft rubber or bare feet. Often used in wet leisure testing (pools, shower rooms, changing rooms)

Leather Slider

Used by Harlequin Dance Floor company to simulate dancing shoes.

Note: If you wish to compare results over time, then you should use the same slider for each test. Please contact Jenny@slipalert.com if you would like advice on the best slider for your needs.

Important Note: Measurements from first 3 runs with a new slider should be ignored.

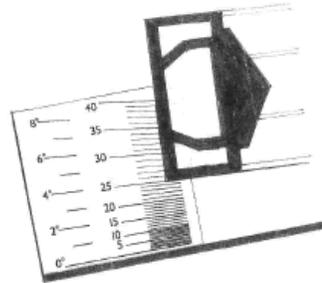
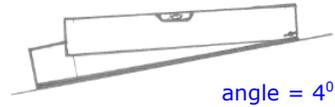
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SLOPING FLOORS...

Using the SlipAlert Inclinometer

- Ensure that the wing nut is sufficiently tight so that the two sections can be moved relative to each other but remain where set when in use.
- Position the Inclinometer on the slope so that it lies up/down the slope with the wing nut nearest the top of the slope.
- Adjust the level so that the bubble is exactly in the centre. Read off the setting number and the angle from the two scales.
- Position the SlipAlert ramp on the slope and pointing directly down the slope.
- Pull SlipAlert up to the top of the ramp but instead of letting go when the green light indicates, allow SlipAlert to slowly roll down the ramp until the setting number is indicated on the digital display. Briefly halt SlipAlert at this position before letting it go as normal.
- When SlipAlert stops read the SlipAlert Test Value (STV) as normal.



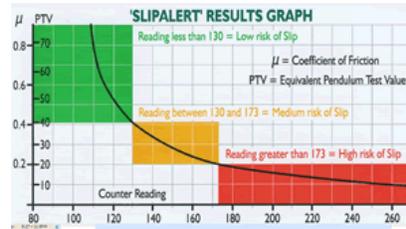
Note: The result you have obtained is an accurate measure of the slip resistance of the floor in combination with the slope and can be converted to Pendulum Test Value (PTV) if required. However, because the floor is on a slope it will require greater slip resistance to be as safe as it would be on the flat. If you wish to work out what the slip resistance of this flooring would be on level ground, please visit our website: www.slipalert.com

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SLIPALERT PENDULUM CORRELATION

SlipAlert is the world leading portable easy to use test device that correlates with the Pendulum in both wet and dry conditions.



Converting STV to PTV

Converting your SlipAlert Test Value (STV) into the corresponding Pendulum Test Value (PTV) is easy. Use the graph attached to the ramp. Find the SlipAlert Test Value (STV) on the x-axis, follow the vertical line up from that point till it intersects with the curve. Read across to the y-axis to discover the corresponding PTV e.g. a STV of 173 corresponds to a PTV of 20.

Note: a high SlipAlert Test Value corresponds to a high risk of slip. The SlipAlert travels further on a slippery surface. The opposite is true with PTV readings; a higher PTV applies to safer floors.



FLOOR SAFETY MATTERS...

SlipAlert and your cleaning regime...

SlipAlert can help you to improve your cleaning regime and therefore to reduce slipping accidents. With SlipAlert you can check if high risk floors have been cleaned properly and know which floors need special care when the floor is wet (after cleaning or a spillage).

"SlipAlert is able to distinguish between a given floor surface in clean condition and in a contaminated condition. This is a key advantage of SlipAlert and makes it ideal for monitoring the effectiveness of cleaning" **UK HSE**

Prevent Injuries reduce Insurance liability...

The UK HSE report that slips and trips are the single biggest cause of injuries at work. Their 5-step approach to risk assessment suggests measuring the risk and recording the findings. With SlipAlert you can quickly and easily record meaningful measures of slip resistance and monitor the results over time to look for changes. These changes will give you advance warning of potential slip risks and will help you to know of any lapses in your cleaning regime that may expose people to the risk of slipping.

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When to test...

We recommend you test floors that cause concern (feel slippery, slip accidents occur etc)

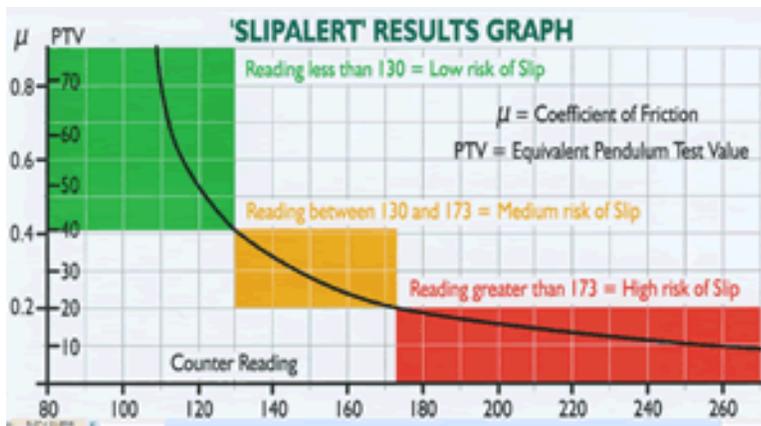
1. Initial tests (you will know the safety parameters of your floors in both wet and dry conditions)
2. test floors whenever there is an accident or near miss (compare with past results)
3. test floors before and after changes: polishing, re-coating, chemical spillage etc.

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STV (SlipAlert test Value)	μ	PTV	Risk of Slipping
109	0.9	76	Very Low
110	0.8	69	
111	0.75	66	Low
113	0.7	62	
114	0.65	59	Moderate
116	0.6	55	
119	0.55	51	
122	0.5	47	
126	0.45	43	High
130	0.4	39	
137	0.35	34	Very High
145	0.3	30	
157	0.25	25	
173	0.2	20	
210	0.15	15	
260	0.1	10	

μ = Dynamic Coefficient of Friction
PTV = Pendulum Test Value / Slip Resistance Value



We hope that you have found this user guide useful. If you have any questions, or suggestions for improvement, then please contact us by phone or email jenny@slipalert.com

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