PTV Slip Resistance

A Technical Specification Guide to BS 7976-2 Compliance



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PTV Technical Specification Guide

These notes should be read in conjunction with British Standards BS5385-3 2024.

1. What is PTV?

The Pendulum test is the HSE and UKSRG's preferred, portable method for assessing slip resistance by replicating pedestrian heel strikes under wet conditions. It measures the dynamic friction between a rubber slider and the floor, which can be tested in either wet or dry conditions, to provide a reliable Pendulum Test Value (PTV).

2. Slip Potential Classification

Based on wet PTV results, the following classifications help determine the slip potential of a floor.

0-24 PTV	25-35	≥36 PTV
High Risk	Moderate Risk	Low Risk

Is ≥36 a strict requirement?
A PTV of ≥36 is the HSE and UKSRG benchmark for "low slip potential". While not a strict "pass/fail" law, it is the primary metric used to demonstrate compliance with your legal duty of care. To ensure safety, floors should achieve ≥36 in the wet conditions they will realistically face in end-use.

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At Grestec, we always recommend a ≥36 PTV to ensure low slip potential. We are proud to confirm that all of our floor ranges achieve this standard, effective from 2025 onwards.



Grestec offers inhouse PTV testing on all its floor tiles.

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3. Shod (Slider 96) vs Barefoot (Slider 55)



Slider 96 (Shod / Footwear)

- Used to test slip resistance for pedestrians wearing standard footwear.
- Replicates dynamic friction for typical street shoes.
- Recommended minimum of **≥45 PTV for external areas.**



Slider 55 (Barefoot)

- Provides slip potential readings for barefoot pedestrians.
- Required minimum of ≥36 PTV for level wet rooms.
- Minimum of **≥38 PTV required for sloped shower zones** (2%).

4. Ramps & Gradient Adjustments

A higher level of slip resistance is required on a sloping surface than on the level to achieve the same degree of safety. Add the gradient percentage to the base PTV requirement.

Examples:

- 1:20 Slope (5%) = Add 5 to target PTV
- 1:12 Slope (8.3%) = Add 8.3 to target PTV

Note on Wet Zones: Shower zones sloped at 2% require an increased minimum of 38 PTV (based on a 36 PTV base requirement for level surfaces)

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Recommended minimum of **≥45 PTV (Shod) for external areas.**



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5. Operational Best Practice

- **Contamination:** Regularly clean floors to maintain their specified slip resistance.
- **Environmental Hazards:** Active management is required for conditions such as ice or snow, as standard slip resistance is ineffective in these scenarios.
- **Ongoing Maintenance:** Implement a robust cleaning regime to ensure long-term floor safety.

6. Practical Considerations & Testing

- **Comprehensive Assessment:** The UKSRG and HSE recommend using both the pendulum test (for slip resistance) and a roughness meter (Rz parameters) for a thorough assessment.
- **Initial Specification:** In areas prone to slippery conditions, select tiles with suitable slip-resistant finishes.
- **Risk Mitigation:** For locations subject to occasional wetting (e.g., shopping malls, office receptions), install entrance matting or implement a management regime to prevent high-risk surfaces.



Erde EAFS56501U ≥45 PTV (Shod + Barefoot)

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7. How Grestec Can Help

Grestec provides comprehensive technical support and transparency to ensure your flooring specification meets the necessary safety standards:

- **Certified Performance:** As of 2025, all Grestec floor ranges are certified to achieve a minimum PTV of ≥36, ensuring low slip potential.
- **Expert Consultation:** Our technical team provides guidance on selecting the appropriate slip-resistant solutions for your specific project requirements.
- **Transparent Data:** We provide clear PTV data on all technical product sheets, using standardised icons to distinguish between shod and barefoot testing requirements for ease of specification.

Example: La Relance Collection
The table below illustrates how we present our PTV data, allowing for quick comparison of slip resistance across different product sizes.

	Size (mm)	Thickness	SHOD PTV WET SLIDER 96	BAREFOOT PTV WET SLIDER 55
1	446×446	10	Natural ≥40 PTV	Natural ≥40 PTV
2	222×446	10	Natural ≥40 PTV	Natural ≥40 PTV
3	222×222	10	Natural ≥40 PTV	Natural ≥40 PTV
4	110×222	10	Natural ≥40 PTV	Natural ≥40 PTV
5	110×110	10	Natural ≥40 PTV	Natural ≥40 PTV



La Relance ≥40 PTV (Shod - Slider 96)

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