

TECHNICAL REPORT

Gerflor SAS ZI du Bois des Lots 26130 Saint Paul Trois Chateau France	SATRA reference:	FLO2000255	
		2406	1
	Report ID/Issue number:	36759/1	
	Your reference:	PO24GERD00614	
	Date samples received:	12/02/2024	
	Date(s) work carried out:	12/02/2024 to 13/02/2024	
	Date of report:	14/02/2024	

Testing Requirements

Testing of one product described by the customer as "Tarasafe Super" to EN 16165:2021 Annex C using slider 96 and \neq RZ measurements. Assessed in accordance with the \neq UKSRG guidelines Issue 6:2024.

For SATRA's full terms and conditions see our website: https://www.satra.com/terms_of_business.php

For SATRA's statements regarding the confidentiality, publication and dissemination of this report, decision rules and UKAS accreditation please see the final page of this technical report.

Report Signed by:

Philip Weal


Report Signatory

**TESTING OF ONE PRODUCT DESCRIBED BY THE CUSTOMER AS
“TARASAFE SUPER” TO EN 16165:2021 ANNEX C - USING SLIDER 96
WITH ≠ RZ MEASUREMENTS. ASSESSED IN ACCORDANCE WITH
THE ≠ UKSRG GUIDELINES ISSUE 6:2024.**

As requested by Gerflor SAS, SATRA has conducted an assessment of the slip resistance of a sample of flooring as detailed below.

CONCLUSION

The product referenced “Tarasafe Super” has demonstrated a low slip potential under wet test conditions in the worst performing direction tested and a low slip potential under dry test conditions in the worst performing direction tested, when tested to EN 16165:2021 Annex C and assessed in accordance with the ≠ UK Slip Resistance Group guidelines, Issue 6:2024.

SAMPLE SUBMITTED

Sample reference: “Tarasafe Super” (1)
Description of surface: Smooth (Embossed)
Appearance:



Date conditioning started: 12 February 2024
Testing completed: 13 February 2024
Testing conducted by: Philip Weal

TESTS CARRIED OUT

- EN 16165:2021. Determination of slip resistance of pedestrian surfaces – Methods of evaluation - Annex C. Pendulum Test ^(2,3,4)
- ≠ Surface roughness measurements (Rz) in accordance with ≠ UK Slip Resistance Group Guidelines – Issue 6:2024

Note(s):

- (1) Information supplied by the customer. Not verified by SATRA.
- (2) The samples were conditioned, and testing was conducted at $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \% \text{RH}$. Surface temperature measured prior to testing was $21.7 ^\circ\text{C}$.
- (3) Results have been assessed in accordance with the ≠ UK Slip Resistance Group Guidelines – Issue 6:2024.
- (4) The median value is calculated over the final five measurements from a set of eight measurements.
- (5) Surface roughness measurements were included at the customer's request.
- (6) The surface roughness values have been taken from an area 75mm x 75mm with meter oriented in three directions.

VERIFICATION

Before testing commenced a verification of the pendulum tester was conducted as per EN 16165:2021 Annex C;

Verification as per EN 16165:2021 Annex C (13/02/2024)

Verification Readings		1	2	3	4	5	6	7	8	Median ⁽⁴⁾
Glass Plate (PVS-1)	WET	11	10	10	10	10	9	9	9	9
Pavigres Tile (PVS-2)		40	40	40	39	39	39	39	39	39
Pink Lapping Film (PVS-3)		67	67	67	67	67	66	66	66	66

Verification requirements from EN 16165:2021 Annex C

Verification Surface	Assigned value of verification surface (PTV in wet conditions)	Acceptance criteria for verification surface and measured value (PTV in wet conditions) slider 96
Float Glass Plate	8	± 2
Pavigres Tile	38	± 2
Pink Lapping Film	65	± 3

RESULTS

Table 1. EN 16165:2021 Annex C – Pendulum Test. (Using Slider 96)

Sample	Condition	Median ⁽⁴⁾ slip measurement (PTV ₉₆)		
		Direction of Test		
		A	B	C
"Tarasafe Super"	Dry	74	74	74
	Wet (water)	63	63	63

Direction of Test



The following table contains the classification guidelines as recommended by the \neq UK Slip Resistance Group Issue 6:2024.

Table 2. Guidelines for slip potential classifications for PTV, as stated in the \neq UK Slip Resistance Group Guidelines Issue 6:2024.

Slip potential	PTV
High slip potential	0-24
Moderate slip potential	25-35
Low slip potential	36+

RESULTS CONTINUED

≠ Surface Roughness Measurements (Rz)

The surface roughness was measured in accordance with the ≠ UKSRG Guidelines Issue 6:2024.

Table 3. ≠ Surface Roughness measurements (Rz) ^(3,5,6)

Roughness Measurements	1	2	3	4	5	6	7	8	9	10	Avg RZ
Rz Values	29.4	45.2	31.4	23.9	21.9	15.4	37.8	48.5	68.6	58.9	38.1

The values achieved for the surface roughness would suggest that the floor covering submitted for testing has a Low slip potential in the wet conditions, as detailed in Table 4 below.

Table 4. Guidelines for surface roughness classification. Expected slip potential in water-wet conditions. (≠ UK Slip Resistance Group Guidelines Issue 5:2016).

Slip potential	Rz value
High slip potential	Below 10 µm
Moderate slip potential	10 – 20 µm
Low slip potential	20 + µm

It is important to understand that the surface roughness measurements should not be taken in isolation and that the pendulum test results take precedence when assessing slip potential.

‘In any complaint involving slip, the floor surface, the footwear and other environmental factors will all have an important bearing on slip resistance. It will be impossible to make either footwear or floorings slip resistant under all conditions which may be encountered in wear’.

Conditions of Use

Confidentiality and Dissemination

SATRA test reports may be forwarded to other parties provided that they are not changed in any way and are not marked as confidential. Test reports must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Liability

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Accreditation

Where the UKAS logo is included on the test report then tests marked ≠ fall outside the UKAS Accreditation Schedule for SATRA. Where no UKAS logo is included on the test report then none of the tests reported are covered by SATRA's UKAS Accreditation.

Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

Uncertainty of Measurement and Decision Rules

Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor $k=2$, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

Where a report contains SATRA guidelines values then uncertainty of measurement values have been taken into account when determining the guideline values and as such are not considered when determining pass/ fail criteria.
