

TECHNICAL REPORT

Tarkett AB Ronnebyhamn 37284 Ronneby Sweden	SATRA reference:	FLO0350795	
		2323	1
	Report ID/Issue number:	30551/1	
	Your reference:		
	Date samples received:	14/06/2023	
	Date(s) work carried out:	14/06/2023 to 22/06/2023	
	Date of report:	28/09/2023	

Testing Requirements

Testing of one product described by the customer as "Granit Multisafe"
to EN 16165:2021 Annex A.

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Report Signed by:

Philip Weal


Report Signatory

TESTING OF ONE SAMPLE DESCRIBED BY THE CUSTOMER AS “GRANIT MULTISAFE” TO EN 16165:2021 ANNEX A – BAREFOOT RAMP TEST.

As requested by Tarkett AB, an assessment has been conducted to determine the slip potential of the sample submitted referenced ‘Granit Multisafe’ using the barefoot ramp method, as detailed below.

SUMMARY

When tested in accordance with the requirements as described in EN 16165:2021 Annex A, the floor sample submitted under the reference ‘Granit Multisafe’ has demonstrated a mean ramp test value, $\alpha_{barefoot}$, of 28°.

When the results of this testing were assessed in accordance with the National Annex NA in DIN EN 16165:2021 ⁽²⁾, the sample was regarded to have demonstrated suitability to be rated as **slip resistance class C**.

SAMPLE SUBMITTED

Sample reference:	‘Granit Multisafe’ ⁽¹⁾
Surface structure:	Smooth (Embossed)
Directionality:	As supplied - Customer responsibility ⁽⁴⁾ .
Appearance:	



Date received:	14 June 2023
Testing completed:	22 June 2023
Testing conducted by:	Phil Weal & Tom Notley

TESTS CARRIED OUT

- EN 16165:2021. Determination of slip resistance of pedestrian surfaces – Methods of evaluation. Annex A – Barefoot ramp test ^(2,3)

Notes:

- (1) The information supplied by the customer. Not verified by SATRA.
- (2) Results assessed in accordance with the German National Annex NA (informative) included in DIN EN 16165:2021, as the information relating to Slip rating classification is not included in EN 16165:2021.
- (3) The sample was cleaned using a dry cotton cloth prior to testing. No further cleaning requested.
- (4) Where the customer has only submitted enough material for 1 test direction to be assessed, it is assumed that the customer has prepared this sample with the longitudinal direction parallel to the direction of least slip resistance.

RESULTS:

Testing of sample, described by the customer as 'Granit Multisafe', in accordance with EN 16165:2021 Annex A – Barefoot Ramp Test.

Test No.	Operator A (°)	Operator B (°)
1	29.6	29.8
2	29.8	29.9
3	30.5	29.5
4	30.3	29.8
Operator Mean ($\alpha_{0,j}$) (values 2-4 only)	30.2	29.7
Operator Correction Factor (D_j)	-2.7	-2.1
Corrected Operator Mean (α_j)	27.5	27.6
Corrected Ramp Test Value ($\alpha_{barefoot}$)	28°	
Slip rating classification (DIN EN 16165:2021) ⁽²⁾	C	

DIN EN 16165:2021 National Annex NA, NA.1 Classification of the results by shod ramp test ⁽²⁾.

The assignment of the test result ($\alpha_{barefoot}$) of the method according to EN 16165:2021 Annex A, can be carried out in accordance with Table NB.1.

Table NB.1 – Assignment of the test result $\alpha_{barefoot}$, to the classes of slip resistance

Test result $\alpha_{barefoot}$	Slip resistance class
$12^\circ \leq \alpha_{barefoot} < 18^\circ$	A
$18^\circ \leq \alpha_{barefoot} < 24^\circ$	B
$24^\circ \leq \alpha_{barefoot}$	C

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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.

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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.
