

TECHNICAL REPORT

Tarkett AB Ronnebyhamn 37284 Ronneby Sweden	SATRA reference:	FLO2006667	
		2423	2
	Report ID/Issue number:	41345/1	
	Your reference:	4200258031	
	Date samples received:	05/06/2024	
	Date(s) work carried out:	05/06/2024 to 20/06/2024	
	Date of report:	24/06/2024	

Testing Requirements

Testing of one product described by the customer as "Granit Multisafe"
to EN 16165:2012 Annex B.

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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 B – SHOD RAMP TEST.

As requested by Tarkett A.B, an assessment has been conducted to determine the slip potential of the sample submitted referenced “Granit Multisafe” using the shod ramp method, as detailed below.

SUMMARY

When tested in accordance with the requirements as described in EN 16165:2021 Annex B, the floor sample submitted under the reference “Granit Multisafe” has demonstrated a ramp test value, α_{shod} , of 17°.

When the results of this testing were assessed in accordance with the National Annex NA in DIN EN 16165:2021 ⁽²⁾, the sample met the requirements for an **R 10 rating**.

SAMPLE SUBMITTED

Sample reference: “Granit Multisafe” ⁽¹⁾
Surface structure: Smooth (Embossed)
Appearance:



Date received: 05 June 2024
Testing completed: 20 June 2024
Testing conducted by: Phil Weal & Tom Notley

TESTS CARRIED OUT

- EN 16165:2021. Determination of slip resistance of pedestrian surfaces – Methods of evaluation. Annex B – Shod ramp test

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 R rating classification is not included in EN 16165:2021.

RESULTS:

Testing of sample, described by the customer as “Granit Multisafe”, in accordance with EN 16165:2021 Annex B – Shod Ramp Test.

Test No.	Operator A (°)	Operator B (°)
1	19.0	18.6
2	19.0	19.0
3	18.7	18.8
Operator Mean (α_{0j})	18.9	18.8
Operator Correction Factor (D_j)	1.8	1.5
Corrected Ramp Test Value (α_{shod})	17°	
R Rating (DIN EN 16165:2021) ⁽²⁾	R 10	

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

The assignment of the test result (α_{shod}) of the method according to EN 16165:2021 Annex B, can be carried out in accordance with Table NB.2.

Table NB.2 – Assignment of the test result α_{shod} to the classes of slip resistance

Test result α_{shod}	Slip resistance class
$6^\circ \leq \alpha_{shod} < 10^\circ$	R 9
$10^\circ \leq \alpha_{shod} < 19^\circ$	R 10
$19^\circ \leq \alpha_{shod} < 27^\circ$	R 11
$27^\circ \leq \alpha_{shod} < 35^\circ$	R 12
$35^\circ \leq \alpha_{shod}$	R 13

Annex 1.0

Operator Verification results for EN 16165:2021 Annex B.

Operator A

Verification Board	Operator A Verification				
	Test Run			Average	Difference
	1	2	3		
St-I (8.0 ± 3.0)	10.2	10.8	10.5	10.5	2.5
St-II (19.9 ± 3.0)	22.3	22.1	22.7	22.4	2.5
St-III A (25.7 ± 3.0)	28.0	28.1	28.0	28.0	2.3

Operator B

Verification Board	Operator B Verification				
	Test Run			Average	Difference
	1	2	3		
St-I (8.0 ± 3.0)	10.7	10.7	10.3	10.6	2.6
St-II (19.9 ± 3.0)	21.8	21.7	21.9	21.8	1.9
St-III A (25.7 ± 3.0)	28.0	28.3	28.2	28.2	2.5

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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.

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