



SATRA Technology Centre Ltd
Wyndham Way, Telford Way, Kettering,
Northamptonshire, NN16 8SD United Kingdom
Tel: +44 (0) 1536 410000
email: info@satra.com
www.satra.com



TECHNICAL REPORT

COBA Europe Ltd Europark Industrial Estate A5 Watling Street Rugby Leicestershire CV23 0AL United Kingdom	SATRA reference:	FLO8729C1Y9	
		2350	1
	Report ID/Issue number:	35499/1	
	Your reference:	46151	
	Date samples received:	14/12/2023	
	Date(s) work carried out:	14/12/2023 to 19/12/2023	
	Date of report:	20/12/2023	

Testing Requirements

Testing of one product described by the customer as
"30cm x 30cm Plan A Aluminum mat, with EPDM anti slip rubber inserts"
to EN 16165:2021 Annex C using slider 96.
Assessed in accordance with the ≠ UKSRG Guidelines Issue 5:2016.

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:

Reece Johnson


Report Signatory

**TESTING OF ONE PRODUCT DESCRIBED BY THE CUSTOMER AS
 “30CM X 30CM PLAN A ALUMINUM MAT, WITH EPDM ANTI SLIP RUBBER INSERTS”
 TO EN 16165:2021 ANNEX C - USING SLIDER 96.
 ASSESSED IN ACCORDANCE WITH THE ≠ UKSRG GUIDELINES ISSUE 5:2016.**

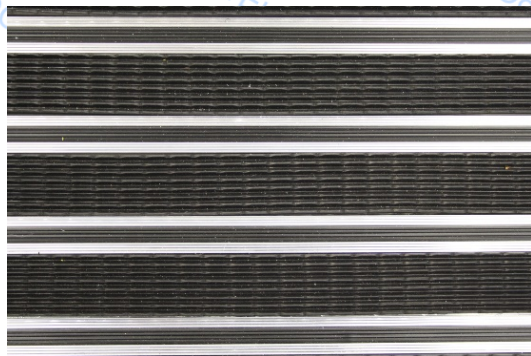
As requested by COBA Europe Limited, SATRA has conducted an assessment of the slip resistance of a sample of flooring as detailed below.

CONCLUSION

The product referenced “30cm x 30cm Plan A Aluminum Mat, with EPDM Anti Slip Rubber Inserts” has demonstrated a moderate 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 5:2016.

SAMPLE SUBMITTED

Sample reference: “30cm x 30cm Plan A Aluminum Mat, with EPDM Anti Slip Rubber Inserts” ⁽¹⁾
 Description of surface: Profiled
 Appearance:



Date conditioning started: 14 December 2023
 Testing completed: 19 December 2023
 Testing conducted by: Dusan Pekarovic

TESTS CARRIED OUT

- EN 16165:2021. Determination of slip resistance of pedestrian surfaces – Methods of evaluation - Annex C. Pendulum Test ^(2,3,4)

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 $22.6 ^\circ\text{C}$.
- (3) Results have been assessed in accordance with the ≠ UK Slip Resistance Group Guidelines – Issue 5:2016.
- (4) The median value is calculated over the final five measurements from a set of eight measurements.

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 (19/12/23)

Verification Readings		1	2	3	4	5	6	7	8	Median ⁽⁴⁾
Glass Plate (PVS-1)	WET	7	9	8	8	8	8	7	7	8
Pavigres Tile (PVS-2)		39	38	38	38	38	38	38	37	38
Pink Lapping Film (PVS-3)		68	68	67	66	65	65	65	65	65

Verification requirements from EN 16165:2021 Annex C

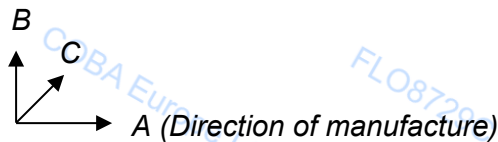
Verification Surface	Assigned value of verification surface (PTV in wet conditions)	Acceptance criteria for verification surface and measured value (PTV in wet conditions) slider 96
Float Glass Plate	8	± 2
Pavigres Tile	38	± 2
Pink Lapping Film	65	± 3

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
"30cm x 30cm Plan A Aluminum Mat, with EPDM Anti Slip Rubber Inserts"	Dry	84	79	80
	Wet (water)	40	29	31

Direction of Test



The following table contains the classification guidelines as recommended by the ≠ UK Slip Resistance Group Issue 5:2016.

Table 2. Guidelines for slip potential classifications for PTV, as stated in the UK Slip Resistance Group Guidelines Issue 5:2016.

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

'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.
