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TECHNICAL REPORT

DURAMAT LTD Unit 6, Causeway End Manningtree CO11 2LH United Kingdom	SATRA reference:	FLO4215P2B0	
		2340	4
	Report ID/Issue number:	33557/1	
	Your reference:		
	Date samples received:	04/09/2023	
	Date(s) work carried out:	04/09/2023 to 18/10/2023	
	Date of report:	07/11/2023	

Testing Requirements

Testing of one product described by the customer as "PVC Floor Tile" to
EN 16165:2021 Annex C using slider 96.
Assessed in accordance with the ≠ UKSRG Guidelines Issue 5:2016.

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Report Signed by:

Reece Johnson

Report Signatory

TESTING OF ONE PRODUCT DESCRIBED BY THE CUSTOMER AS "PVC FLOOR TILE" TO EN 16165:2021 ANNEX C - USING SLIDER 96. ASSESSED IN ACCORDANCE WITH THE ≠ UKSRG GUIDELINES ISSUE 5:2016.

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

CONCLUSION

The product referenced "PVC Floor Tile" 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 5:2016.

SAMPLE SUBMITTED

Sample reference: "PVC Floor Tile" (1)
Description of surface: Smooth (Embossed)
Appearance:

Date conditioning started: 04 September 2023
Testing completed: 18 October 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 ± 2) °C and (50 ± 5) % RH. Surface temperature measured prior to testing was 23.0 °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 (18/10/23)

Verification Readings		1	2	3	4	5	6	7	8	Median[4]
Glass Plate (PVS-1)	WET	9	7	7	7	6	7	7	6	7
Pavigres Tile (PVS-2)		40	39	39	39	39	39	38	38	39
Pink Lapping Film (PVS-3)		65	67	67	66	66	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
"PVC Floor Tile"	Dry	**58**	**58**	**60**
	Wet (water)	**41**	**40**	**42**

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'.

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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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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.