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TECHNICAL REPORT

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08530 r.	SATRA reference:	FLO8530T1M5
5AS 1/M5	10	2350
Gerflor SAS	Report ID/Issue number:	35557/1
ZI du Bois des Lots 26130 Saint Paul Trois Chateau	Your reference:	~ Co8530 Genal
France	Date samples received:	15/12/2023
M_5	Date(s) work carried out:	15/12/2023 to 20/12/2023
	Date of report:	17/01/2024
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Testing Requirements

Testing of one product described as "Mipolam Planet" to EN 16165:2021 Annex C using slider 96 and ≠ Rz measurements. Assessed in accordance with the ≠ UKSRG Guidelines Issue 5 :2016.

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Report Signed by:

Philip Weal

Report Signatory







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

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 "Mipolam Planet" 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: Description of surface: "Mipolam Planet" (1) Smooth (Embossed)

Appearance:



Date conditioning started: Testing completed: Testing conducted by: FLO853077M5

15 December 2023 20 December 2023 Dusan Pekarovic

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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 5:2016 (3,5,6)

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 22.5 °C.
- (50 ± 5) % Km. Surface temperature measures prior to tooming the stance Group (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.
 - (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 (19/12/23)

Verification as per			Gom			10850			6/790		0530>
Verification Readings	307710	1	2 1/0	3 AS	4	5	6 _{7M5}	7	8	Median ⁽⁴⁾	,
Glass Plate (PVS-1)	7	7	9	8	8	8	8	7	7	8	
Pavigres Tile (PVS-2)	WET	39	38	38	38	38	38	38	37	38	
Pink Lapping Film (PVS-3)	G _e	68	68	67	66	65	65	65	65	65 30	

Verification requirements from EN 16165:2021 Annex C

~\O ₈₃	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
77M5	Germor SAS FLO8530TIM	Germor SAS	Cerrior SAS

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RESULTS

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

Sample	or Sa		lip measuremen	t (PTV ₉₆)
Sample	Condition	'M5 [Direction of Test	
70		Α	В	С
' G	Dry	65 _{Cerry}	65 N	66
"Mipolam Planet"	Wet (water)	60	58	61
	, ret (maio)			
Direction of Test	G _o		FZ 000	Germ

EL 0853077M5 **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+

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RESULTS CONTINUED

≠ Surface Roughness Measurements (Rz) >

Issue 5:2016. Do... measurements (7) // 5 The surface roughness was measured in accordance with the ≠ UKSRG Guidelines Issue 5:2016. Deviating from the guidelines, the average was also taken from the 3 highest

Table 3. ≠ Surface Roughness measurements (Rz) (3,5,6,7)

Roughness Measurement	1	2	37	4	5	6	3e7/10	8	9	[∠] 90 ₅ ;	Avg RZ
Rz value	17.2	16.6	12.1	15.9	16.1	15.3	14.3	16.3	14.3	14.3	15.24

The values achieved for the surface roughness would suggest that the floor covering submitted for testing has a moderate 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 70
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'. FLO853071M5

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