Slip Check to AS 4586-2013

Allura Puzzle

Report Number: R21527e-2
Report Date: 30 July 2020
Total Number of Pages 3

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Issued by

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Prepared for

Forbo Flooring Systems
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Slip Resistance Classification of New Pedestrian Surface Materials

AS 4586-2013 Appendix A (Wet Pendulum Test)

The slip resistance classification has been determined for unused surfaces using specific conditions. Factors such as usage, cleaning systems, applied coatings and patterns of wear may affect the characteristics of the surface after classification. Standards Australia Handbook 198:2014 *Guide to the specification and testing of slip resistance of pedestrian surfaces* provides guidance for the selection of slip resistant pedestrian surfaces classified in accordance with AS 4586-2013. It is recommended that this test report be read in conjunction with AS 4586 and HB 198.

Requested by:	Forbo Flooring Systems
Client Address:	23 Ormsby Place Wetherill Park NSW 2164
Product Manufacturer:	Forbo Flooring Systems
Product Description:	Allura Puzzle
Test conducted according to:	AS 4586:2013 Appendix A
Location:	4/40 Bessemer Street, Blacktown NSW 2148
Conducted by:	Yuliana Vargolomova

Date:	30 July 2020	Temperature:	17°C
Sample:	Unfixed	Cleaning:	None
Rubber slider used:	Slider 96	Conditioned:	Grade P 400 paper dry followed by wet lapping film
Slope of specimen:	Tested on a flat level surface		
Direction of Test:	NA		

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Mean BPN of last 3 swings:	40	38	38	39	37

Reported SRV of Sample:	**38**
Class:	**P3**

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Accelerated Wear Slip Resistance Test

AS 4586-2013 Appendix A: incorporating accelerated wear conditioning to evaluate in-service wear

The purpose of the accelerated wear condition is to assist specifiers to better understand how the slip resistance of an individual product may alter with wear, thus helping to differentiate between products that might otherwise have seemingly similar slip resistance characteristics. AS 4586 does not provide guidance on the conduct of such accelerated wear tests; however, Appendix A3 states that *"if a product Standard or specification contains a requirement for the permanence of slip resistance, this requirement shall be determined after the appropriate accelerated again or wear testing procedure"*. The conditioning protocol primarily used within industry is based on method developed by Strautins[1]. The results are intended to be used as an informative guide to the selection of surfaces within a quality management system; please refer to AS 4586, HB 198 and Strautins (2008) for further information.

Test Method:	AS 4586 Appendix A: Test sample description, operating and equipment parameters outlined on previous page		
Sample Preparation:	Safe Environments in-house *SOP – Accelerated Wear Slip Testing*		
Abrasive pad:	3M Scotchbrite Heavy Duty Scour Pad No. 86 (water wet)		
Machine	Gardco D12VFI washability and wear-testing machine		
Mass of friction boat:	1000 ±50g	Area:	100 ±10mm x 100 ±10mm
Cycle Rate:	50 ±5 cycles per min	Path length:	300 ±50 mm

Wear Cycles	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5	Mean	Class
0	40	38	38	39	37	**38**	**P3**
100	-	-	-	-	-	**NA**	**NA**
500	26	36	34	38	36	**34**	**P2**
1000	-	-	-	-	-	**NA**	**NA**
5000	-	-	-	-	-	**NA**	**NA**

[1] **Strautins, Carl J** (2008) 'Sustainable Slip Resistance: An Opportunity for Innovation', Qualicer '08, Xth World Congress on Ceramic Tile Quality, Castellon Spain. Publication available upon request.