

## **Slip Check to AS 4586-2013 Nuage Anti Slip 2cm**

**Report Number: R19123**

**Report Date: 2 August 2019**

**Total Number of Pages 4**

Accredited for compliance with ISO/IEC 17025 – Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards

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**Issued by**

Safe Environments Pty Ltd  
Unit 4, 40 Bessemer Street  
Blacktown NSW 2148

**Prepared for**

Europe Imports  
8-9, 360 Vardys Road  
Kings Park NSW 2148

**Approved by**



Dale Rowell  
Authorised Signatory

2 August 2019

# Test Report No. R19123

## 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: Europe Imports  
 Client Address: 8-9, 360 Vardys Road  
 Kings Park NSW 2148  
 Product Manufacturer: Salante Mainland Import Export Co  
 Product Description: Nuage Anti Slip 2cm

Test conducted according to: AS 4586:2013 Appendix A  
 Location: 4/40 Bessemer Street, Blacktown NSW 2148  
 Conducted by: Kieran Mackowski

Date:	31 July 2019	Temperature:	16-17°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:	60	59	59	59	60

<b>Reported SRV of Sample:</b>	<b>59</b>
<b>Class:</b>	<b>P5</b>

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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<sup>1</sup>. 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

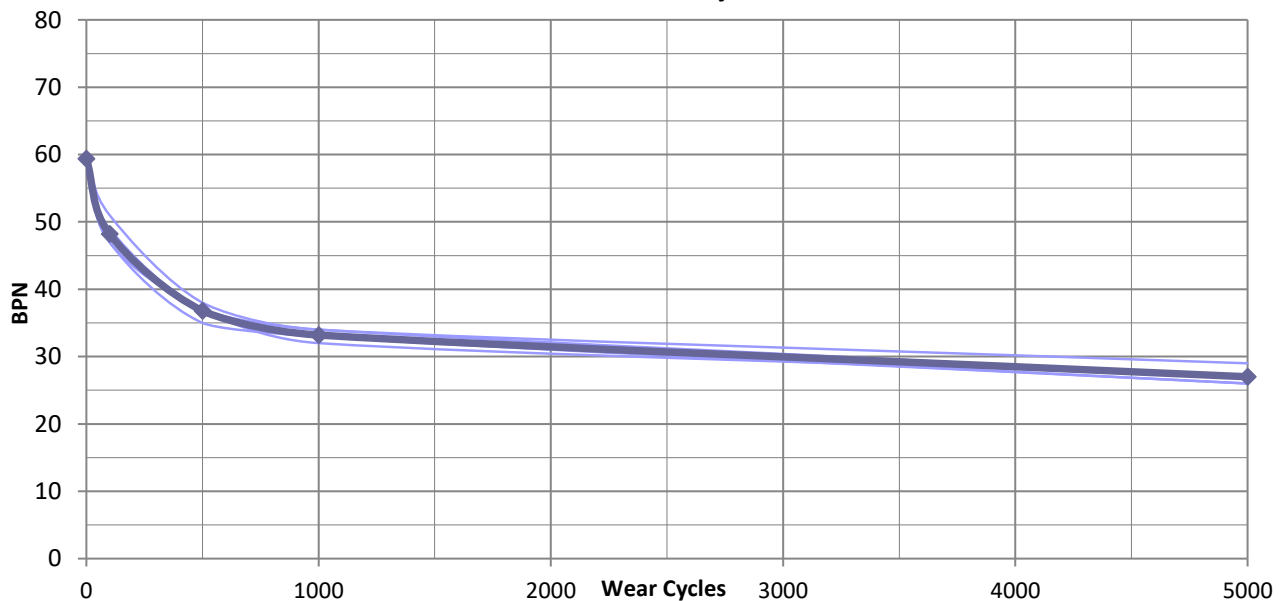
Abrasive pad: 3M Scotchbrite Heavy Duty Scour Pad No. 86 (water wet)

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	60	59	59	59	60	59	P5
100	47	49	47	47	51	48	P4
500	37	37	37	35	38	37	P3
1000	32	34	33	33	34	33	P2
5000	27	27	26	26	29	27	P2

**BPN vs Wear Cycles**

<sup>1</sup> 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.

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# Test Report No. R19123

## Slip Resistance Classification of New Pedestrian Surface Materials

### AS 4586-2013 Appendix D (Oil-Wet Inclining Platform 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: Europe Imports  
Client Address: 8-9, 360 Vardys Road  
Kings Park NSW 2148  
Product Manufacturer: Salante Mainland Import Export Co  
Product Description: Nuage Anti Slip 2cm  
Surface Structure: Smooth  
Fixed/Unfixed: Unfixed  
Joint Width: N/A

Test conducted according to: AS 4586-2013 Appendix D (Incorporating Amendment No. 1)  
Location: 4/40 Bessemer Street, Blacktown NSW 2148  
Conducted by: Kieran Mackowski & Dale Rowell  
Test Shoe Type: Bergmann with LeipzigV73-SP sole form

Date: 01 August 2019  
Cleaning: As Received  
Air Temperature: 18°C

Displacement Space: Not Measured  
Displacement Space Assessment Group: NA

<b>Corrected Mean Overall Acceptance Angle:</b>	<b>27 °</b>
<b>Slip Resistance Assessment Group:</b>	<b>R12</b>

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