

### Rockpave Anti-Slip

All external Rockpave resin bound surfacing systems should be installed with an anti-slip finish by the application of glass dust, during the installation process.

The anti-slip finish should be provided in accordance with Standards Australia AS/NZS 4586:2004 and CSIRO HB197 (reproduced here in table 1.)

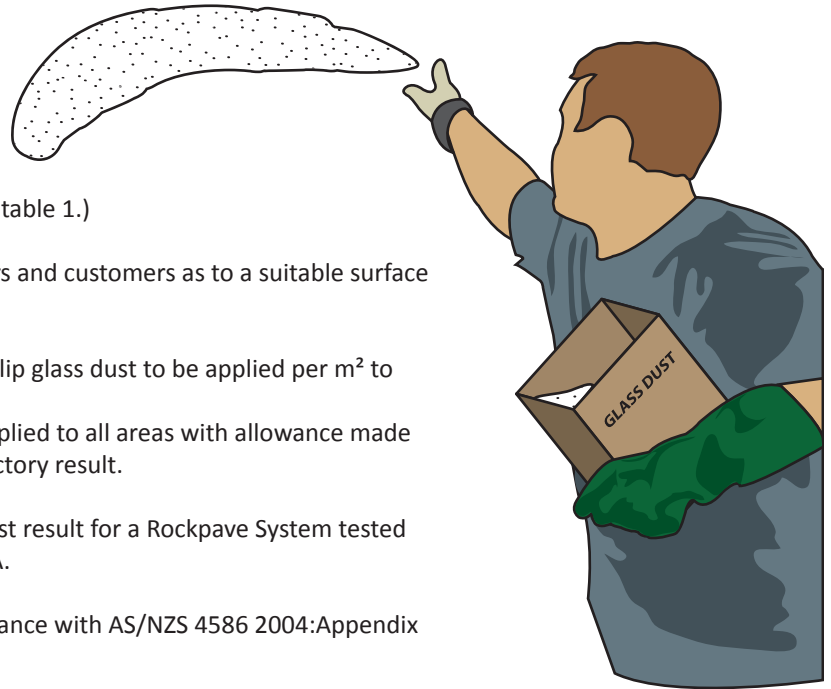
This information should be used to assist specifiers and customers as to a suitable surface finish for any specific project.

Table 2 is a guide for the correct quantity of anti-slip glass dust to be applied per m<sup>2</sup> to achieve a specific result.

Glass dust should be carefully and consistently applied to all areas with allowance made for prevailing wind conditions to achieve a satisfactory result.

Figure 1 is a typical example of a slip resistance test result for a Rockpave System tested in accordance with AS/NZS 4586 2004:Appendix A.

Figure 2 is an image of a test performed in accordance with AS/NZS 4586 2004:Appendix A.



**Table 1.**

Pedestrian Flooring Selection Guide - Minimum Pendulum or Ramp Recommendations		
Location	Pendulum	Ramp
External colonade, walkways & pedestrian crossings	W	R10
External Ramps	V	R11
Entry Foyers hotel, office, public buildings - wet	X	R10
Entry Foyers hotel, office, public buildings - dry	Z	R9
Shopping Centre - excluding food courts	Z	R9
Shopping Centre - food court	X	R10
Internal Ramps, slopes (greater than 2 degrees) - dry	X	R10
Lift Lobbies above external entry level	Z	R9
Other separate shops inside shopping centres	Z	R9
Other shops with external entrances - entry area	X	R10
Fast food outlets, buffet food servery areas	X	R10
Hospitals and Aged Care facilities - dry areas	Z	R9
Hospitals and Aged Care facilities - ensuites	X	A or R10
Communal Changing Rooms	X	A
Swimming Pool Surrounds and Communal Shower Rooms	W	B
Toilet facilities in offices, hotels, shopping centres	X	R10
Undercover concourse areas of sports stadium	X	R10
Accessible internal stair nosings (dry) - handrails present	X	R10
Accessible internal stair nosings (wet) - handrails present	W	B or R11

### Rockpave Anti-Slip

Classification Guide for Commercial and Industrial Areas - School and Kindergartens		
Location	Ramp	
Entrance halls, corridors, assembly halls	R9	
Classrooms, group rooms	R9	
Stairs	R9	
Toilets, washrooms	R10	
Instructional Kitchens in schools	R10	
Kitchens in Kindergartens	R10	
Machine rooms for woodworking	R10	
Special rooms for handicrafts	R10	
Public Wet Foot Areas		
Areas of Application	Class	Min. Angle
Barefoot passages	A	12 degrees
Individual and Communal changing and locker rooms	A	12 degrees
Barefoot passages not classified in Group A	B	18 degrees
Shower rooms	B	18 degrees
Pool surrounds	B	18 degrees
Stairs leading into water with a maximum width of 1m and handrails on both sides	B	18 degrees
Ladders and stairs outside pool area	B	18 degrees

**Table 2.**

Pendulum Class	Ramp	Pendulum Mean (BPN)		Anti-slip 0.4-0.8mm Glass Dust (g/m <sup>2</sup> )	Contribution of the floor surface to the risk of slipping when wet
		Slider 55	Slider 96		
V	R11	>44	>54	100	Very Low
W	R10	40-44	45-54	60	Low
X	R10	-	35-44	40	Moderate
Y	R9	-	25-34	20	High
Z	R9	-	<25	0	Very High

NOTE: It is expected that these surfaces will have greater slip resistance when dry.

Figure 1.

### Skid Resistance Report Wet Pendulum Test Method AS/NZS 4586:2004 Appendix A

**Report No:** 3598-6

**Client:** MPS Paving Systems Pty Ltd

**Location:** New specimens, supplied by client

Sample ID if applicable: Specimen 006

Air Temperature: 21° C

Surface Description: Stone & Resin Mixture

Date of Test: 24<sup>th</sup> March 2011

Type of Test: fixed

Rubber Used: Slider 55

Direction of Swing: NA

Operator: William Song

Site Details	Test Sequence	Mean of Last 3 Readings	Temp Corrected Reading	Classification
ASTP 006 ELBA 6 – 8 mm (20mm deep) Production Date: 17/02/11 Glass dust size: 0.4 – 0.8 mm Application Rate: 100 g/m <sup>2</sup>	1	66	66	V
	2	64	64	V
	3	64	64	V
	4	64	64	V
	5	64	64	V
	6	63	63	V
Average	64	64	V	

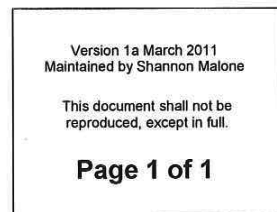
All units in BPN's  
Wet pendulum Test Classification

Signed: William Song  
(William Song) Authorised Signatory

Date: 29/03/11



**ARRB Group Ltd**  
ACN 004 620 651  
ABN 68 004 620 651  
500 Burwood Highway  
Vermont South VIC 3133  
Australia  
Tel: 03 9881 1555  
Fax: 03 9887 8104



### Rockpave Anti-Slip



Figure 2.  
The pendulum CoF test (also known as the portable skid resistance tester, the British pendulum, and the TRRL pendulum).

**Skid Resistance Report**  
**Wet Pendulum Test Method**  
**AS/NZS 4586:2004 Appendix A**

**Report No.** RE71053-129-4

**Client.** MPS PAVING  
79-81 INTERPID ST BERWICK VIC

**Location.** 250mm square samples of paving supplied to ARRB for testing

Sample ID if applicable ARRB No.A081709

Air Temperature: 21.5 °C

Surface Description Old Superstone

Date of Test 19-May-08

Type of Test fixed


Rubber Used Slider #55

Site Details	Mean of Last 3 Readings	Temp Corrected Reading
Old Super stone	45	45

All units in BPN's  
Wet pendulum Test Classification

Signed                     *R G Hubo*                      
                    Authorized Signatory

Date:                     *20/5/2008*                    



This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. This document shall not be reproduced, except in full.

NATA Accredited Laboratory Number: **9594**



**Materials Laboratories**

**ARRB Group Ltd**  
ACN 004 620 651  
ABN 68 004 620 651  
500 Burwood Highway  
Vermont South VIC 3133  
Australia  
Tel: 03 9881 1555  
Fax: 03 9887 8104

**ATTAR TEST REPORT NUMBER: 13/6730**

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025. Accreditation Number: 2735

21 February 2013

**Total Pages: 1****WET/BAREFOOT RAMP SLIP RESISTANCE**

Job No: M13/6730

<b>Prepared for:</b>	MPS Paving Systems Pty Ltd 79 – 81 Intrepid Street BERWICK VIC 3806	
<b>Attention:</b>	Mr Andrew Everett	
<b>Test Site:</b>	ATTAR, Unit 1, 64 Bridge Road, Keysborough.	
<b>Test Date:</b>	21 February 2013	
<b>Manufacturer:</b>	MPS Paving Systems	
<b>Test Specimen, Size &amp; Quantity Received:</b>	StoneCarpet "Dolomite" 2-4mm, 400x1100 mm, 1 off supplied.	
<b>Sampling &amp; Direction of Testing:</b>	Sampling conducted by client. Test direction not applicable.	
<b>Test Personnel:</b>	Marcus Braché & David Padfield	
<b>Preparation:</b>	As Received, washed with pH neutral detergent, rinsed with water then dried.	
<b>Fixed/Unfixed</b>	Unfixed	
<b>Joint Width:</b>	N/A	
<b>Air Temperature:</b>	24°C	
<b>Water Temperature:</b>	22°C	
<b>Test Standard:</b>	AS/NZS 4586 - 2004 Slip resistance classification of new pedestrian surface materials – Appendix C.	
<b>Surface Structure :</b>	Structured.	
<b>Calibration Board:</b>	<b>Actual Mean</b>	<b>Reported Mean</b> Rounded to the nearest 1°
<b>A</b>	12.3°	12°
<b>B</b>	18.5°	19°
<b>C</b>	23.7°	24°
<b>Test Specimen Actual Mean:</b>	21.2°	
<b>Mean Angle of Inclination:</b> Rounded to the nearest 1°	21°	
<b>Slip Resistance Quality Group:</b>	<b>B</b>	

These results apply only to the specimens tested and it is recommended that before selection of flooring or paving materials the effect of service conditions, including maintenance procedures and wear on their slip-resistance be checked.  
**NOTE: Any specimens supplied will be disposed of in two (2) months time, unless otherwise instructed.**

**ATTAR**

Marcus Braché  
Senior Engineering Technician  
Approved Signatory

This report may not be reproduced except in its entirety.

**Page 1 of 1**

ATTAR - Advanced Technology Testing and Research  
A division of Engineering Materials Evaluation Pty Ltd ABN 14 006 554 785

Unit 1, 64 Bridge Road, Keysborough Victoria 3173 T (03) 9574 6144 F (03) 9574 6133 E admin@attar.com.au www.attar.com.au