



Industrial Research Services

Materials Science & Engineering, Graham Road (PO Box 56), Highett, Victoria, Australia 3190
Telephone: 61 3 9252 6000 Facsimile: 61 3 9252 6244 Email: tiles@csiro.au Web: http://www.cmse.csiro.au

Registered Testing Authority - CSIRO

9 March 2010

Our Ref. EN13 / 1667 03/0212

TEST REPORT No. 5258.1s

Requested by: Dalsouple Australia Pty Ltd
on (date): 2 March 2010
Manufacturer: Dalsouple
Product Desc.: Dalsouple DalMicro, Micro Pastille SBR rubber flooring, white
500x500mm

Sampling details:
Where: Delivered
Date: 2 March 2010
By whom: Courier
How (methods): N/A

The results reported relate only to the sample(s) tested and the information received. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. CSIRO cannot accept responsibility for deviations in the manufactured quality and performance of the product. While CSIRO takes care in preparing the reports it provides to clients, it does not warrant that the information in this particular report will be free of errors or omissions or that it will be suitable for the client's purposes. CSIRO will not be responsible for the results of any actions taken by the client or any other person on the basis of the information contained in the report or any opinions expressed in it. The reproduction of this test report is only authorised in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction.

This test report consists of 4 pages

SUMMARY OF SLIP RESISTANCE TESTS PERFORMED:

		Result	Class
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials Appendix A: WET Pendulum (Four S slider):		
	Mean BPN:	20	Z [MEDIUM*]
AS/NZS 4586:2004	Slip resistance classification of new pedestrian surface materials, Appendix D: OIL-WET Ramp		
	Mean overall acceptance angle:	17.0°	R 10 [HIGH*]

* = CSIRO classification

In order to interpret the classifications, please refer to Standards Australia Handbook 197, An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials, which recommends minimum classifications for a wide variety of locations.

It is important to realise that test results obtained on unused factory-fresh samples may not be directly applicable in service, where proprietary surface coatings, contamination, wear and subsequent cleaning all influence the behaviour of the pedestrian surface.



Industrial Research Services

Materials Science & Engineering, Graham Road (PO Box 56), Highett, Victoria, Australia 3190
Telephone: 61 3 9252 6000 Facsimile: 61 3 9252 6244 Email: tiles@csiro.au Web: http://www.cmse.csiro.au

REPORT NO: 5258.1s
ISSUE DATE: 9 March 2010
MANUFACTURER: Dalsouple
PRODUCT DESC: Dalsouple DalMicro, Micro Pastille SBR rubber flooring, white 500x500mm

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

WET PENDULUM TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS/NZS 4586:2004 (Appendix A)

Test Date: 3 March 2010

RESULTS: Location: Slip Resistance Laboratory
Sample: Unfixed
Cleaning: Acetone
Temperature: 23°C
Rubber slider used: Four S
Conditioned with grade P400 paper, dry

Pendulum Friction Tester: Stanley (S/N: 7829, calibrated 17/11/08)
Test conducted by: David Weeks

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5
Last 3 swings	23	20	20	21	19
	22	20	20	20	19
	22	20	19	20	19
Averages	22	20	20	20	19

Mean BPN : 20

CLASS :

Z [MEDIUM*]

* = CSIRO classification

Comments:
Slip resistance assessment refers only to "white" sample.



Industrial Research Services

Materials Science & Engineering, Graham Road (PO Box 56), Highett, Victoria, Australia 3190
Telephone: 61 3 9252 6000 Facsimile: 61 3 9252 6244 Email: tiles@csiro.au Web: http://www.cmse.csiro.au

REPORT NO: 5258.1s
ISSUE DATE: 9 March 2010
MANUFACTURER: Dalsouple
PRODUCT DESC: Dalsouple DalMicro, Micro Pastille SBR rubber flooring, white
500x500mm

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

OIL-WET RAMP TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS/NZS 4586:2004 (Appendix D)

Test Date: 9 March 2010

Location: Slip Resistance Laboratory

Sample Fixed

Joint width: 0 mm

Surface structure: Smooth
 Profiled
 Structured

RESULTS

Mean overall acceptance angle: 17.0 °

Displacement space: not tested

CLASSIFICATION:

Slip Resistance Assessment Group:

R 10 [HIGH*]

Displacement Space Assessment Group:

-

* = CSIRO classification

Comments:

Slip resistance assessment refers only to "white" sample.



Industrial Research Services

Materials Science & Engineering, Graham Road (PO Box 56), Highett, Victoria, Australia 3190
 Telephone: 61 3 9252 6000 Facsimile: 61 3 9252 6244 Email: tiles@csiro.au Web: http://www.cmse.csiro.au

REPORT NO: 5258.1s
 ISSUE DATE: 9 March 2010
 MANUFACTURER: Dalsouple
 TILE DESC: Dalsouple DalMicro, Micro Pastille SBR rubber flooring, white 500x500mm

Page 4 of 4

Date and Place 9 March 2010, Highett, Vic

Name, Title and Signature:

DAVID WEEKS
 Technical Officer
 Tel: 61 3 92526064
 Fax: 61 3 92526011
 Email: David.Weeks@csiro.au

***CSIRO recommended classification of Slip Resistance as determined from:
 AS/NZS 4586: 2004 Slip Resistance Classification of New Pedestrian Surface Materials (Appendices A & D).**

Wet Pendulum Class	BPN 4S Rubber	CSIRO Class LOW	CSIRO Class MEDIUM	CSIRO Class HIGH
V	>54	54-57	58-61	>61
W	45-54	45-48	49-51	52-54
X	35-44	35-38	39-41	42-44
Y	25-34	25-28	29-31	32-34
Z	<25	<18	18-21	22-25
Oil Wet Ramp Class	Angle (degrees)	CSIRO Class LOW	CSIRO Class MEDIUM	CSIRO Class HIGH
R9	≥6 to <10	≥6 to 7.5	7.6 to 9	9.1 to 9.9
R10	≥10 to <19	≥10 to 12	12.1 to 15	15.1 to 18.9
R11	≥19 to <27	≥19 to 21	21.1 to 24	24.1 to 26.9
R12	≥27 to <35	≥27 to 29	29.1 to 32	32.1 to 34.9
R13	≥35	≥35 to 36	36.1 to 38	≥38.1

This table should not be read or relied upon without reference to the CSIRO/Standards Australia publication:
 AS/NZS 4586 Slip Resistance Classification of New Pedestrian Surface Materials (Appendices A & D).

CSIRO has categorized the AS4586 classifications into sub-groups Low, Medium & High. The slip resistance test classification is still determined according to AS 4586 Australian Standard (Appendices A & D). The added information of Low, Medium and High allows professionals to make a better judgement of pedestrian floor requirements.