



# Sustainable Slip Resistance and Tiling Services

Manuf. & Infrastr. Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia  
Telephone: 61 2 9490 5444 Facsimile: 61 2 9490 5555 Web: <http://www.dbce.csiro.au>

Registered Testing Authority - Building Code of Australia

8 May 2003

Our Ref. ES13 / 746

## TEST REPORT No. SY469-1

Requested by: The General Mat Company Pty Ltd  
on (date): 2 May 2003  
Manufacturer: The General Mat Company Pty Ltd  
Product Desc.: Diamond Plate Select No. 415  
Resilient floor mat

Sampling details:  
Where: Delivered  
Date: 2 May 2003  
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 5 pages

### SUMMARY OF SLIP RESISTANCE TESTS PERFORMED:

		Result	Class
AS/NZS 4586:1999	Slip resistance classification of new pedestrian surface materials		
	Appendix A: WET Pendulum (Four S). Mean BPN:	41	X
	Appendix B: DRY (FFT). Mean COF:	0.70	F
	Appendix A,B: Dual classification:		XF
AS/NZS 4586:1999	Slip resistance classification of new pedestrian surface materials		
	Appendix A: WET Pendulum (TRRL). Mean BPN:	36	
	Appendix B: DRY (FFT). Mean COF:	0.70	F
	Appendix A,B: Dual classification:		F

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.



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## SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

### WET PENDULUM TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH  
AS/NZS 4586:1999 (Appendix A)

Test Date: 7 May 2003

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

Pendulum Friction Tester: Wessex (S/N: A9589), calibrated 21/1/02

	Specimen				
	1	2	3	4	5
<b>Last 3 swings</b>	<b>45</b>	<b>35</b>	<b>45</b>	<b>42</b>	<b>37</b>
	<b>45</b>	<b>35</b>	<b>44</b>	<b>43</b>	<b>37</b>
	<b>45</b>	<b>34</b>	<b>44</b>	<b>43</b>	<b>37</b>
<b>Averages</b>	<b>45</b>	<b>35</b>	<b>44</b>	<b>43</b>	<b>37</b>

Mean BPN : 41

CLASS :

X

Where products are to be used in wet barefoot areas, it is more appropriate to test to Appendix C of AS/NZS 4586 (which is technically equivalent to DIN 51097).

### Interpretation of class

Contribution of the floor surface to risk of slipping when wet = Moderate

### Comments:

The frictional properties between the mat and substrate were not evaluated. This test reflects the pedestrian slip resistance of the sample secured in position. For highly profiled surfaces it may be more appropriate to test to Appendix C and D of AS/NZS 4586.



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## SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

### WET PENDULUM TEST METHOD

TEST CARRIED OUT ACCORDING TO  
AS/NZS 4586:1999 (Appendix A)

Test Date: 7 May 2003

RESULTS:	Location:	North Ryde Slip Resistance Laboratory	Rubber slider used: TRRL
	Sample:	Unfixed	Conditioned with grade P400 paper, dry
	Cleaning:	Distilled water	
	Temperature:	23°C	

Pendulum Friction Tester: Wessex (S/N: A9589), calibrated 21/1/02

	Specimen				
	1	2	3	4	5
<b>Last 3 swings</b>	<b>41</b>	<b>36</b>	<b>40</b>	<b>31</b>	<b>38</b>
	<b>40</b>	<b>36</b>	<b>39</b>	<b>30</b>	<b>37</b>
	<b>39</b>	<b>36</b>	<b>39</b>	<b>30</b>	<b>36</b>
<b>Averages</b>	<b>40</b>	<b>36</b>	<b>39</b>	<b>30</b>	<b>37</b>

Mean BPN : 36

CLASS :

### Interpretation of class

Contribution of the floor surface to risk of slipping when wet = This reading is too low to achieve a classification when the TRRL rubber is used.

### Comments:

The frictional properties between the mat and substrate were not evaluated. This test reflects the pedestrian slip resistance of the sample secured in position. For highly profiled surfaces it may be more appropriate to test to Appendix C and D of AS/NZS 4586.



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## SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

### DRY FLOOR FRICTION TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH  
AS/NZS 4586:1999 (Appendix B)

Test Date: 7 May 2003

RESULTS Location: North Ryde Slip Resistance Laboratory Rubber Type: Four S  
Sample Sample Unfixed Conditioned with grade P400 paper, dry  
Cleaning: Distilled water  
Temperature: 23°C  
FFT measurements taken over 2 passes of 800mm each

Floor Friction Tester: Tortus Mk II (S/N: 244)

Run 1: Average COF: 0.69  
Run 2: Average COF: 0.66  
Mean COF: 0.68

According to AS/NZS 4586 the Dry Coefficient of Friction shall be reported as :  
(mean rounded to the nearest 0.05)

**0.70**

CLASS :

**F**



## ***Sustainable Slip Resistance and Tiling Services***

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Date and Place 8 May 2003, North Ryde, NSW.

Name(s), Title(s) and Digital Signature(s):

  


**MICHAEL KING**  
**LABORATORY MANAGER**

  


**CARL STRAUTINS**  
**LABORATORY TECHNICIAN**

**Consulting services are available if further detailed analysis of the test results are required.**

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