



Registered Testing Authority - CSIRO

7 February 2017

Our Ref. EN13 / 2146 03/0212

TEST REPORT No. 7817.1

Requested by: Trex Company Inc
 245 Capitol Land
 Winchester, VA 22602
 USA

on (date): 14 December 2016

Manufacturer: Trex

Product Desc.: Trex Transcend Deck Board, 1000x140mm

Sampling details:

Where: At customer premises

Date: 23 January 2017

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 6 pages

SUMMARY OF SLIP RESISTANCE TESTS PERFORMED:

		Result	Class
AS 4586:2013	Slip resistance classification of new pedestrian surface materials		
	Appendix A: WET Pendulum (Slider 96). Mean SRV:	29	P2
	Appendix B: DRY (FFT). Mean COF:	0.70	D1
	Appendix A,B: Dual classification:		P2 ,D1
AS 4586:2013	Slip resistance classification of new pedestrian surface materials		
	Appendix C: WET/BAREFOOT Ramp Mean angle of inclination:	27°	C
AS 4586:2013	Slip resistance classification of new pedestrian surface materials,		
	Appendix D: OIL-WET Ramp Corrected mean overall acceptance angle:	14°	R 10

In order to interpret the classifications, please refer to Standards Australia Handbook 198, 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 4586:2013 (Appendix A)

Test Date: 1 February 2017

RESULTS: Location: Slip Resistance Laboratory
Slider used: 96
Conditioned with grade P400 paper, dry
and Imperial Lapping Film Grade 3MIC, wet
Sample: Unfixed
Cleaning: Deionized water
Temperature: 23°C

Pendulum Friction Tester: ERM.030.002 (S/N: 9234, calibrated 24/04/2015)
Test conducted by: Andy Giang

	Specimen				
	1	2	3	4	5
Last 3 swings (BPN)	28	29	31	30	29
	28	29	31	30	29
	28	29	31	30	29
Averages	28	29	31	30	29

Mean SRV : 29

CLASS :

P2



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

DRY FLOOR FRICTION TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS 4586:2013 (Appendix B)

Test Date: 1 February 2017

RESULTS Location: Slip Resistance Laboratory Slider 96
Sample Sample Unfixed Conditioned with grade P400 paper, dry
Cleaning: Dry el/static cloth
Temperature: 23°C
FFT measurements taken over 2 passes of 800mm each

Floor Friction Tester: Tortus Mk II (S/N: 224)
Test conducted by: Andy Giang

Run 1: Average COF: 0.70

Run 2: Average COF: 0.71

Mean COF: 0.71

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

0.70

CLASS :

D1



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

WET/BAREFOOT RAMP TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS 4586:2013 (Appendix C)

Test Date: 31 January 2017

Location: Slip Resistance Laboratory Test conducted by: KH, AG

Sample Unfixed

Joint width: 0 mm

Surface structure: Smooth
 Profiled
 Structured

RESULTS

	Critical angle mean	Reported mean
Mean angle of inclination:		
Verification Board WB-A:	11.70 °	11 °
Verification Board WB-B:	19.52 °	19 °
Verification Board WB-C:	24.00 °	24 °
Mean angle of inclination of Test Board:	27.77 °	27 °

CLASSIFICATION:

Quality Group:

C



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SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

OIL-WET RAMP TEST METHOD

TEST CARRIED OUT IN ACCORDANCE WITH
AS 4586:2013 (Appendix D)

Test Date: 31 January 2017

Location: Slip Resistance Laboratory Test conducted by: KH, AG

Sample Unfixed

Joint width: 0 mm

Surface structure: Smooth
 Profiled
 Structured

RESULTS

Corrected mean overall acceptance angle: 14 °

Displacement space: not tested

CLASSIFICATION:

Slip Resistance Assessment Group:

R 10

Displacement Space Assessment Group:

-

Test shoe used: Uvex Athletic



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Date and Place 7 February 2017, Clayton, Vic

Name, Title and Signature:

A large, light gray watermark of the CSIRO logo is centered on the page. It consists of a circle containing the stylized vertical bars and the word "CSIRO" in a large, bold, sans-serif font.

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