WSP New Zealand Ltd
Napier Test Laboratory

Pedestrian Slip Resistance Testing to AS/NZS 4586 - 2013 for Freedom Strategies Ltd

Lab Reference: NA6111 / 5
Stridemaster Walkway Insert



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Date: 23 November 2022
Reference: 2 – L0106.10
Status: Final

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1 MATERIALS TESTED

Slip Resistant Walkway Inserts mounted into Timber Rail.

2 TESTS USED AND BASIS FOR INTERPRETATION

The testing that was applied was in accordance with the joint Australian and New Zealand standard AS/NZS 4586: 2013 "Slip Resistance Classification of New Pedestrian Surface Materials"
The scope of the standard states that these test methods are appropriate to determine the characteristics of surface materials either in the laboratory, under conditions in which the surface materials are intended to be installed, or in situ following installation. The test method is selected on the basis of whether the material is to be used in either a wet or dry area. The materials were tested in dry condition only. The test method is set out in Appendix A of the standard, namely the pendulum friction tester for the wet condition. A brief description of the instrument is as follows.

The TRRL Pendulum (pendulum friction tester) has a rigid swinging arm approximately 450 mm long which contacts the surface with a spring loaded slider about 75 x 20 mm in size, at a speed of about 2 m/sec. This slider is of a specially designed rubber material (Simulated Standard Shoe Sole, the 4S rubber) so that the instrument delivers, as far as possible, a response which is representative of"typical" pedestrian wearing suitable footwear. This instrument is regarded as equating the action of pedestrians running, hurrying or turning abruptly as, when wet, it replicates the aquaplaning effect which is particularly pronounced on smooth or highly glazed surfaces.

The results described within this test report is only for the supplied samples. Users of this test reports should determine the extent to which the submitted materials are representative of the batch or variations from batch to batch from the supplier's quality assurance procedures.
Note that factors such as wear, contamination or cleaning procedures may alter the surface properties and consequently the slip resistance of these materials.

FRICTION REQUIREMENTS OF SURFACES

Slip Resistance requirements of surfaces as defined in Table 2 of AS / NZS 4586:2013 are:

CLASSIFICATION OF PEDESTRIAN SURFACE MATERIALS ACCORDING TO THE AS4586 WET PENDULUM TEST

CLASS	Pendulum SRV	
	Four S rubber (96)	TRL rubber (55)
P5	>54	>44
P4	45-54	40-44
P3	35-44	35-39
P2	25-34	20-34
P1	12-24	<20
P0	<12	

3. RESULTS

The results obtained are listed below:

SMW20 – 1 Strip Insert / 90mm Timber:

SRV Value (Transverse Direction) (mean of 5 tests)	Class Category
15	P1

SRV Value (Longitudinal Direction) (mean of 5 tests)	Class Category
56	P5

Note the four S (96) rubber was used in testing.

Prepared By: Arthur Ching Reviewed By: Jason Crichton
WSP 2022