



To: Norglass Laboratories Pty Ltd
From: Mark McKay
Date: 7th June 2017
No of Pages: 4

Attention : Mr Brett Mould

Our Reference: Sliptest Report number : 070620171

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Dear Sir,

Many thanks for your instructions in regard to a wet slip test on site at **1/59 Moxon Rd, Punchbowl**. Please find herein, a copy of the applicable test report. On the readings shown, we advise that the test with SRV (BPN) readings of **73, 73, 75, 75** and **73**, has achieved an interpretation of the wet pendulum results of **P5**. These results are reported in line the recommendations published in AS 4586 (2013) with reference to HB 198 (2014) which would suggest the following:

- The range is reported as P5 due to the range of readings obtained on this surface.
- The type 55 test rubber was used. AS4663:2013 states in section 2, note1 that "*When assessing products for wet barefoot areas, or unusually rough products, the use of the softer, more resilient Slider 55 (TRL) is preferable.*"
- The Foreword of AS4663:2013 also states that "....Slider 96 (also known as Four S rubber) was specifically developed to replace the TRL rubber for testing smoother indoor surfaces as it provides greater discrimination between such internal surfaces."
- As this surface was not a smooth indoor surface, the choice of using the type 55 rubber was made.
- **The results shown make no allowance for slope. Please refer to AS 4586:2013, for details.**

Please refer to the **Australian Standard AS 4586 & AS 4663 (2013)** for details. We have provided the table following to allow you to compare your readings with the recommendations of the standard, a copy of table 3B of HB 198 is attached for your reference.

Sliptest NSW has performed this on site test with reference to the following Australian Standard testing criteria, of the standard as listed below, and HB 198: 2014

- **AS 4586:2013 Slip Resistance measurement of new pedestrian surfaces.**
- **Appendix A – Wet Pendulum Test Method.**
- **Testing performed using the Type 55 (TRL) rubber slider material.**

Table 3B
HB 198:2014
WET PENDULUM TEST OR OIL-WET INCLINING PLATFORM
CLASSIFICATIONS FOR APPLICATIONS WHERE NCC DOES NOT
REQUIRE SLIP RESISTANCE.

Location	Wet pendulum test	Oil-wet inclining platform test
External Pavements and Ramps		
External ramps including sloping driveways, footpaths etc. steeper than 1 in 14.	P5	R12
External ramps including sloping driveways, footpaths etc. under 1:14, external sales areas (e.g. markets, external carpark areas, external colonnades, walkways, pedestrian crossings, balconies, verandahs, carports, driveways, courtyards and roof decks.	P4	R11
Undercover car parks	P3	R10
Hotels, Offices, Public Buildings, Schools and Kindergartens		
Entries and access areas including hotels, offices, public buildings, schools, kindergartens, common areas of public buildings, internal lift lobbies.		
Wet area	P3	R10
Transitional area	P2	R9
Dry area	P1 (see note 3)	R9
Toilet facilities in offices, hotels and shopping centres	P3	R10
Hotel apartment bathrooms, en suites and toilets	P2	A
Hotel apartment kitchens and laundries	P2	R9
Supermarkets and Shopping Centres		
Fast food outlets, buffet food servery areas, food courts and fast food dining areas in shopping centres	P3	R10
Shop and supermarket fresh fruit and vegetable areas	P3	R10
Shop entry with external entrance	P3	R10
Supermarket aisles (except fresh food areas)	P1 (see note 3)	R9
Other separate shops inside shopping centres – wet	P3	R10
Other separate shops inside shopping centres – dry	P1 (see note 3)	R9
Swimming Pools and Sporting Facilities		
Swimming pool ramps and stairs leading to water	P5	C
Swimming pool surrounds and communal shower rooms	P4	B
Communal changing rooms	P3	A
Undercover concourse area of sports stadium	P3	R10
Hospitals and Aged Care Facilities		
Bathrooms and en suites in hospitals and aged care facilities	P3	B
Wards and corridors in hospital and aged care facilities	P2	R9

NOTE 3

The minimum classifications listed in Table 3B are P1 and R9. It is inappropriate for Table 3B to list the lower classification, P0, since there is no lower limit on Classification P0. Notwithstanding, some smooth and polished floor surfaces, which do not achieve Classification P1, may be considered to provide a safe walking environment for normal pedestrians walking at a moderate pace, provided the surfaces are kept clean and dry; however, should these surfaces become contaminated by either wet or dry materials, or be used by pedestrians in any other manner, then they may become unsafe. Therefore, the type of maintenance, the in-service inspection of floors, other environmental conditions and use should be taken in to account when selecting such products.

AS 4586 (2013) Table 2
Classification of pedestrian surface materials
according to the wet pendulum test

Class 2013 Standard	Pendulum mean BPN	
	Type 96 (4S)	Type 55 (TRL)
P5	>54	>44
P4	45-54	40-44
P3	35-44	35-39
P2	25-34	20-34
P1	12-24	<20
P0	<12	-

* The term **Notional** has been used to highlight the need to consider all potential contributing factors to a slip incident.

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Yours faithfully,



MARK MCKAY
SLIPTEST NSW

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Photos Re: Sliptest carried out at 1/59 Moxon Rd, Punchbowl.

Dated: 7th June 2017



Test Site 1/. SRV 73

Test Site 2/. SRV 73

Test Site 3/. SRV 75

Test Site 4/. SRV 75

Test Site 5/. SRV 73