

Reduce Your Risk!" Independent Slip Testing Services GLOBAL PRODUCT CLASSIFICATION

TEST REPORT SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

AS 4586-2013 Appendix A - Wet Pendulum Testing

Prepared For: Skudo Group of Companies

Product Description: Skudo Tack-Mat LT

Test Date: 13-09-2018



TESTING SPECIMEN DESCRIPTION, SIZE, COLOUR, TYPE, & COATING (if applicable)

- 1 x Skudo Tack-Mat, Grey, Sample size 20x20cm 1.
- 2. 1 x Skudo Tack-Mat, Grey, Sample size 20x20cm
- 3. 1 x Skudo Tack-Mat, Grey, Sample size 20x20cm
- 1 x Skudo Tack-Mat, Grey, Sample size 20x20cm 4.
- (4 x samples tested in 5 x locations)

Surface Condition:	Textured	Cleaning:	Tested as received
Fixed/ Unfixed:	Unfixed	Rz Mean:	n/a
Environmental Conditions:	Air conditioning	Air Temp:	22 Deg.C
Direction of Test:	As indicated on underside of sample	Slope:	n/a

AS 4586-2013	INTERPRETATION OF THE WET PENDULUM RESULTS		
	Classification	Pendulum mean BPN Slider 96 (4S) rubber	
	Р5	>54	
	P4	45-54	
	РЗ	35-44	
	P2	25-34	
	P1	12-24	
	PO	<12	

Т

Specimen	#1 Result: #2 Result: #3 Result: #4 Result: #5 Result:	50 BPN 48 BPN 49 BPN 50 BPN 51 BPN	Slider condition (P400): Slider condition (Lapping): Temperature adjustment:	82 BPN 59 BPN n/a
	#5 Result:	51 BPN		

CLASSIFICATION

CLASSIFICATION	PENDULUM MEAN BPN (4S rubber)
P4	50

The mean results of the five specimens is reported (rounded to nearest whole number)

^ An individual result both below the result classification and below the mean result minus 20% shall be considered of lower classification

Maximum Slope Design Value (when dry):	4 deg
Maximum Slope Design Value (when wet):	3 deg

^NCC Code provides reference for ramps up to 1:8



DISCLAIMER:

DISCLAIMEN: ISTS accepts no civil liability or responsibility for any actions whatsoever that may arise as a result of the tests and the publication and issue of this test report. The test report is intended for viewing purposes solely for the named recipient identified above. The slip test report remains the property of ISTS. This report contains privileged and confidential information. The unauthorised reproduction

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Testing was carried out using the Wet Pendulum Test Method in accordance with Australian Standard AS 4586-2013 Appendix A

Signatory: Mick Walton



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WET TEST RESULTS INTERPRETATION GUIDE (Part 1)- NATIONAL CONSTRUCTION CODE (AUSTRALIA)

		INTERPRETING WET TEST RESULTS		*TABI
How to	interpret y	our wet test report		
	Wet test res	sults offer six possible outcomes- classification 'P0', 'P1', 'P2', 'P3', 'P4' or 'P5'.		CLASSIFICATIO
	The classific	ation 'P0' reflects a lesser slip resistant surface, while 'P5' classification reflects the grea	test slip resistance	CLASSIFICATIO
	classificatio	n.		P5
		vo parts to this interpretation guide- Firstly the 'National Construction Code requiremer pplications' recommendations.	ts', and secondly 'Other	P4 P3
		bal Product Classification' test results refer additional #Note below.		P2
Step 1.	Note the te	st location described in the left side column of your report, and the corresponding test r sted in the far right side column)	esult 'P' classification	P1 P0
Step 2.		terpretation guide, identify the most appropriately related location description describe (FABLE 3B' (Part 2) . Note the 'P' classification listed to the right of this description.	ed in either 'TABLE 3A'	
Step 3.		esult classification listed meets (or exceeds) the related 'P' classification from 'TABLE 3A' eeting the relevant requirement.	or 'TABLE 3B', the test	For test results that achie
#Note.		Product Classification' test reports the 'TABLE 3A' or 'TABLE 3B' descriptions assist in ide or various applications.	ntifying the product's	While ISTS is solely an aud
* TAB	SLE 3A	Minimum wet pendulum test result classifications to meet		Acid etching
		National Construction Code requirements.		•
		National Construction Code requirements.	Classification	Coatings and sealers Surface texture Surface replacement
Stair Tre	eads and St		Classification	Coatings and sealers Surface texture Surface replacement An internet search for
		Location	Classification	Coatings and sealers Surface texture
1. Stair	treads and a	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2		Coatings and sealers Surface texture Surface replacement An internet search for
 Stair Stair 	treads and a treads and a	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry)	P3	Coatings and sealers Surface texture Surface replacement An internet search for
 Stair Stair Nosings 	treads and a treads and a for Stair Tr	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet)	P3	Coatings and sealers Surface texture Surface replacement An internet search for
 Stair Stair Nosings Dry s 	treads and a treads and a for Stair T i stair tread, a	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2	P3 P4	Coatings and sealers Surface texture Surface replacement An internet search for
 Stair Stair Nosings Dry s Wet 	treads and a treads and a for Stair T stair tread, a stair tread, a	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing	P3 P4 P3	Coatings and sealers Surface texture Surface replacement An internet search for recommends sourcing a no
 Stair Stair Nosings Dry s Wet Ramps i 	treads and a treads and a for Stair T i stair tread, a stair tread, a in Buildings	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing stair non-skid nosing strip and a stairway landing	P3 P4 P3	Coatings and sealers Surface texture Surface replacement An internet search for " recommends sourcing a nu References *Table 3A- HB198:2014 "Gui Australia Limited 2014.
 Stair Stair Stair Nosings Dry s Wet Ramps i Ram 	treads and a treads and a for Stair T i stair tread, a stair tread, a in Buildings ps not steep	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing stair non-skid nosing strip and a stairway landing - Covered by NCC Volumes 1 - 2	P3 P4 P3 P4 P3 P4	Coatings and sealers Surface texture Surface replacement An internet search for ' recommends sourcing a nu References *Table 3A- HB198:2014 "Gui Australia Limited 2014. *Table 2- AS 4586-2013 "Slip
 Stair Stair Stair Nosings Dry s Wet Ramps i Ram Ram Ram Ram 	treads and a treads and a for Stair Tr stair tread, a stair tread, a in Buildings ps not steep ps not steep ps steeper th	Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing stair non-skid nosing strip and a stairway landing Covered by NCC Volumes 1 - 2 er than 1:14 (4.1 degrees) gradient (when dry)	P3 P4 P3 P4 P3 P3	Coatings and sealers Surface texture Surface replacement An internet search for ' recommends sourcing a nu References *Table 3A- HB198:2014 "Gui Australia Limited 2014.

*TABLE 2 Classification of Pedestrian Surface Materials according to the AS 4586-2013 wet pendulum test	
CLASSIFICATION	Pendulum* mean BPN
LEASSIFICATION	

Four S rubber (Slider 96)	TRL rubber (Slider 55)	
>54	>44	
45-54	40-44	
35-44	35-39	
25-34	20-34	
12-24	< 20	
<12	-	
	>54 45-54 35-44 25-34 12-24	

TREATMENT OPTIONS

eve a result below recommendations, the following treatment options are available to increase slip resistance and Reduce Your Risk!

dit service, following is a short list of common types of treatments we see our clients using to improve the slip resistance of various pedestrian surface materials.

Cleaning procedures	Minimising detergent residue build up or other contaminants.
Acid etching	Increasing surface texture.
Coatings and sealers	Surface coatings and penetrative types.
Surface texture	Coatings, etchants, sandblasting, shot blasting, etc.
Surface replacement	May be the most cost effective option in some instances.

'flooring treatments' will identify surface treatment professionals in your local area. ISTS number of detailed proposals when considering treatments, outlining expected slip resistance improvements, visual changes, clean ability and life expectancy.

ADDITIONAL NOTES & REFERENCES

uide to the specification and testing of slip resistance of pedestrian surfaces" Standards

ip resistance classification of new pedestrian surface materials".

ne information provided is intended as a quide only, consult the referenced for further information in regards to measurement results and recommendations.

Form #:17.3. Revision Date 04-11-2017



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WET TEST RESULTS INTERPRETATION GUIDE (Part 2)- OTHER APPLICATIONS...NON NCC (AUSTRALIA)

* TABLE 3B Minimum wet pendulum test result classifications for other applications where the NCC does not apply.				
	Location		Classification	
External Paver	ents and Ramps			
1. External ramps in	cluding sloping driveways, footpaths etc. steeper than 1 in 14 (4.1^0)		P5	
2. External ramps in	cluding sloping driveways, footpaths, etc., under 1:14 (4.1 $^{ m 0}$), external	sales areas	P4	
(eg. markets), ext	ernal car park areas, external colonnades, walkways, pedestrian cros	sings,		
balconies, verand	as, carports, driveways, courtyards and roof decks			
3. Undercover car pa	arks		P3	
Hotels, Offices,	Public Buildings, Schools and Kindergartens			
1. Entries and access	s areas including	Wet area	Р3	
hotels, offices, pu	blic buildings, schools, kindergartens,	Transitional area	P2	
internal lift lobbie	es and common areas of public buildings	Dry area	P1 (see Note 3)	
2. Toilet facilities in	offices, hotels and shopping centres		Р3	
3. Hotel apartment	pathrooms, ensuites and toilets		P2	
4. Hotel apartment	kitchens and laundries		P2	
Loading Docks,	Commercial Kitchens, Cold Stores, Serving Areas			
1. Loading docks un	der cover and commercial kitchens		P5	
2. Serving areas beh	ind bars in public hotels and clubs, cold stores and freezers		P4	
Supermarkets a	and Shopping Centres			
1. Fast food outlets,	buffet food servery areas, food courts and fast food dining areas in sl	hopping centres	Р3	
2. Shop and superm	arket fresh fruit and vegetables area		Р3	
3. Shop entry areas	with external entrances		Р3	
4. Supermarket aisle	es (except fresh food areas)		P1 (see Note 3)	
5. Other separate sh	ops inside shopping centres - wet		Р3	
6. Other separate sh	ops inside shopping centres - dry		P1 (see Note 3)	
Swimming Poo	s and Sporting Facilities			
1. Swimming pool ra	imps and stairs leading to water		P5	
2. Swimming pool su	urrounds and communal shower rooms		P4	
3. Communal chang	ing rooms		Р3	
4. Undercover conco	ourse areas of sports stadiums		P3	
Hospitals and A	ged Care Facilities			
	- nsuites in hospitals and aged care facilities		P3	
2. Wards and corride	ors in hospital and aged care facilities		P2	
Form #:17.4.	Revision Date 04-11-2017			

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Classification	Four S rubber (Slider 96)	TRL rubber (Slider 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	-		

P1 (see Note 3)

Note 3.	

The minimum classification listed in Table 3B is P1. It is inappropriate for Table 3B to list the lower classification, PO, since there is no lower limit on Classification PO.

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 surface is 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 into account when selecting such products.

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ADDITIONAL NOTES & REFERENCES	
References	
*Table 3B- HB198:2014 "Guide to the specification and testing of slip resistance of pedestrian surfaces" Standards Australia Limited 2014.	
*Table 2- AS 4586-2013 "Slip resistance classification of new pedestrian surface materials".	
nb. The information provided is intended as a guide only, consult the referenced publications for further information in regards to measurement results and recommendations.	



TEST PRODUCT IMAGE

Product Description: Skudo Tack-Mat LT

Test Date: 13-09-2018



