

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: Belgotex Floors Australia** 

**Product Description:** Grid Range, Grey, Carpet Tile, 50x50cm

Test Date: 24-09-2020





# **Independent Slip Testing Services**

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Page #: 1 of 1 Program #: 8005

## TEST REPORT- Wet Pendulum Slip Resistance Classification (Australian Standard)

Report Prepared for:	Belgotex Floors Australia 17/2 Focal Avenue Coolum Beach QLD 4573
Test Date:	24-09-2020
Test Site:	Independent Slip Testing Services- Slip Resistance Testing Facility (Lota HQ QLD)
Testing Technician:	J.Barnett
Testing Instrument:	Pendulum Skid Tester with Slider 96 (4S) rubber
	Testing Instrument Serial #: SK1105 (W1)

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

- 1. 1x Grid Range, Grey, Carpet Tile, Sample Size 50x50cm
- 2. 1x Grid Range, Grey, Carpet Tile, Sample Size 50x50cm
- 3. 1x Grid Range, Grey, Carpet Tile, Sample Size 50x50cm
- 4. 1x Grid Range, Grey, Carpet Tile, Sample Size 50x50cm
- 1x Grid Range, Grey, Carpet Tile, Sample Size 50x50cm

Surface Condition:	Structured	Cleaning:	Tested as received
Fixed/ Unfixed:	Unfixed	Rz Mean:	n/a
Environmental Conditions:	Air conditioning	Air Temp:	24 Deg.C
Direction of Test:	As indicatied on underside of sample	Slope:	n/a

AS 4586-2013	INTERPRETATION OF TH	INTERPRETATION OF THE WET PENDULUM RESULTS	
	Classification	Pendulum mean BPN Slider 96 (4S) rubber	
	Р5	>54	
	P4	45-54	
	P3	35-44	
	P2	25-34	
	P1	12-24	
	РО	<12	

### TEST RESULTS

#1 Result:	78 BPN	Slider condition (P400):	82 BPN
#2 Result:	90 BPN	Slider condition (Lapping):	60 BPN
#3 Result:	92 BPN	Temperature adjustment:	N/A
#4 Result:	84 BPN	Carpet surface tested dry:	Yes
#5 Result:	86 BPN		

### **CLASSIFICATION**

CLASSIFICATION	PENDULUM MEAN BPN (4S rubber)
Р5	86

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):	14.5 deg
Maximum Slope Design Value (when wet):	N/A

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



DISCLAIMER:

DISCLAIMER: 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

Accredited for compliance with ISO/IEC 17025 testing and calibration. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.



Signatory: Mick Walton

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



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## WET TEST RESULTS INTERPRETATION GUIDE (Part 1)- NATIONAL CONSTRUCTION CODE (AUSTRALIAN STANDARD)

		INTERPRETING WET TEST RESULTS		
How to	o interpret y	your wet test report		
	Wet test res	sults offer six possible outcomes- classification 'P0', 'P1', 'P2', 'P3', 'P4' or 'P5'.		CLASSI
		ation 'P0' reflects a lesser slip resistant surface, while 'P5' classification reflects the great	test slip resistance	
	classificatio	n.		
		vo parts to this interpretation guide- Firstly the 'National Construction Code requiremer pplications' recommendations.	nts', and secondly 'Other	
	For the 'Glo	bal Product Classification' test results refer additional #Note below.		
Step 1.		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	
Step 2.		terpretation guide, identify the most appropriately related location description describe TABLE 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 the
#Note.		Product Classification' test reports the 'TABLE 3A' or 'TABLE 3B' descriptions assist in ide	entifying the product's	While ISTS is solely
* TAB		or various applications. NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet	TIONS	Cleaning proce
* TAB	suitability fo		TIONS	Cleaning proce Acid etchin Coatings and s
* TAB		NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet	TIONS	Cleaning proce Acid etchi
	BLE 3A	NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet National Construction Code requirements.		Cleaning proce Acid etchin Coatings and s Surface text Surface replace An internet sea
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Stair Tro 1. Stair 2. Stair Nosings	BLE 3A eads and St treads and a treads and a s for Stair Tr	NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet National Construction Code requirements. Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet)	Classification P3	Cleaning proce Acid etchi Coatings and s Surface text Surface replace An internet sea
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Stair Tro 1. Stair 2. Stair Nosings 1. Dry s 2. Wet	BLE 3A eads and St treads and a treads and a s for Stair Tr stair tread, a stair tread, a	NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet National Construction Code requirements. 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	Classification P3 P4 P3	Cleaning proce Acid etchi Coatings and s Surface text Surface replace An internet sea recommends source References *Table 3A- HB198:20
Stair Tro 1. Stair 2. Stair Nosings 1. Dry s 2. Wet Ramps	BLE 3A eads and St treads and a treads and a for Stair Tr stair tread, a stair tread, a in Buildings	NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet National Construction Code requirements. 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	Classification P3 P4 P3	Cleaning proce Acid etchii Coatings and s Surface text Surface replace An internet sea recommends source References *Table 3A- HB198:20 Australia Limited 202
Stair Tro 1. Stair 2. Stair Nosings 1. Dry s 2. Wet Ramps 1. Ram	BLE 3A eads and St treads and a treads and a for Stair Tr stair tread, a stair tread, a in Buildings	NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet National Construction Code requirements. 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	Classification P3 P4 P3 P4	Cleaning proce Acid etchin Coatings and s Surface text Surface replace An internet sea recommends source References *Table 3A- HB198:20 Australia Limited 201
Stair Tro 1. Stair 2. Stair Nosings 1. Dry s 2. Wet Ramps 1. Ram 2. Ram	BLE 3A eads and St treads and a treads and a treads and a s for Stair Tr stair tread, a stair tread, a in Buildings aps not steepe	NATIONAL CONSTRUCTION CODE COMPLIANCE CLASSIFICA Minimum wet pendulum test result classifications to meet National Construction Code requirements. 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 s - Covered by NCC Volumes 1 - 2 er than 1:14 (4.1 degrees) gradient (when dry)	Classification P3 P4 P4 P3 P4 P3	Cleaning proce Acid etchin Coatings and s Surface text Surface replace An internet sea recommends sourc

	Pendulum*	mean BPN		
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		
PO	<12	_		

\*TABLE 2 Classification of Pedestrian Surface Materials according to the AS 4586-2013 wet pendulum test

#### TREATMENT OPTIONS

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

y an audit 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.
<b>Coatings and sealers</b>	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.

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

#### **ADDITIONAL NOTES & REFERENCES**

2014 "Guide to the specification and testing of slip resistance of pedestrian surfaces" Standards )14.

013 "Slip resistance classification of new pedestrian surface materials".

nb. The information provided is intended as a guide only, consult the referenced ations for further information in regards to measurement results and recommendations.

Form #:17.3. Revision Date 16-11-2019



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### WET TEST RESULTS INTERPRETATION GUIDE (Part 2)- OTHER APPLICATIONS...NON NCC (AUSTRALIAN STANDARD)

* TABLE 3B Minimum wet pendulum test result classifications for other applications where the NCC does not apply.				
	Location		Classification	
External Pave	ments and Ramps			
1. External ramps i	ncluding sloping driveways, footpaths etc. steeper than 1 in 14 $(4.1^{\circ})$		P5	
2. External ramps i	ncluding sloping driveways, footpaths, etc., under 1:14 (4.1°), external	sales areas	P4	
(eg. markets), e	ternal car park areas, external colonnades, walkways, pedestrian cross	sings,		
balconies, verar	das, carports, driveways, courtyards and roof decks			
3. Undercover car	parks		Р3	
Hotels, Office	s, Public Buildings, Schools and Kindergartens			
<ol> <li>Entries and acce</li> </ol>	ss areas including	Wet area	P3	
hotels, offices, p	ublic buildings, schools, kindergartens,	Transitional area	P2	
internal lift lobb	ies and common areas of public buildings	Dry area	P1 (see Note 3)	
2. Toilet facilities in	offices, hotels and shopping centres		Р3	
3. Hotel apartmen	bathrooms, ensuites and toilets		P2	
4. Hotel apartmen	kitchens and laundries		P2	
Loading Docks	, Commercial Kitchens, Cold Stores, Serving Areas			
1. Loading docks u	nder cover and commercial kitchens		Р5	
2. Serving areas be	hind bars in public hotels and clubs, cold stores and freezers		P4	
Supermarkets	and Shopping Centres			
1. Fast food outlet	s, buffet food servery areas, food courts and fast food dining areas in sh	nopping centres	Р3	
2. Shop and super	market fresh fruit and vegetables area		Р3	
3. Shop entry area	s with external entrances		Р3	
4. Supermarket ais	les (except fresh food areas)		P1 (see Note 3)	
5. Other separates	hops inside shopping centres - wet		Р3	
6. Other separate s	hops inside shopping centres - dry		P1 (see Note 3)	
Swimming Po	ols and Sporting Facilities			
1. Swimming pool	ramps and stairs leading to water		P5	
2. Swimming pool	surrounds and communal shower rooms		P4	
3. Communal chan	ging rooms		P3	
4. Undercover con	course areas of sports stadiums		P3	
Hospitals and	Aged Care Facilities			
	ensuites in hospitals and aged care facilities		P3	
2. Wards and corri	dors in hospital and aged care facilities		P2	

AS 4586-2013 wet pendulum test				
Classification	Pendulum*	mean BPN		
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		
PO	<12	-		

\*TABLE 2 Classification of Pedestrian Surface Materials according to the

P1 (	see	Note	3)
	JUC	NOLC	51

#### 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.

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:Grid Range, Grey, Carpet Tile,<br/>50x50cmTest Date:24-09-2020





## ...Considering pedestrian surface enhancements, or developing your property?



If you are selecting, purchasing or installing pedestrian surface materials, an independent, accredited classification is a useful tool providing confidence to all stakeholders the product will perform as specified.

Independent Slip Testing Services is the global leader in accredited slip resistance measurement and classification of pedestrian surface materials prior to installation.

..see the ISTS 'GPC Results Interpretation Booklet' for guidance on pedestrian surface product selection.



### TILES PAVERS STONE TIMBER VINYL RUBBER METAL TAPES COATINGS GRATINGS CONCRETE CARPETS STEP-NOSINGS TACTILES MOSAICS GLASS

Contact us any time if you have questions.



