

# AS4586:2013 SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS

**APPENDIX A - WET PENDULUM TESTING** 

## AUSTRALIAN SLIP CLASSIFICATION TEST REPORT

Report Prepared For:

**Belgotex Floorcoverings Australia** 

Sample Tested:

Refined Blackbutt, Grey Vinyl 1524x228x2.5mm

Report Issued: Page: 12/10/2023 1 of 6





### **SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS**

Page #: 2 of 6

Date of Test: 12/10/2023 Report#: 9001-121023-01BY

		t Information:		Facility Information:		
Compa	any Name:	Belgotex Floorcoverings Australia	Test Facility:	Australian Slip Testing HQ		
Address:		U17/2-6 Focal Avenue,	Address:	PO Box 184,		
		Coolum Beach QLD 4573		Ashgrove QLD 4060		
Client Name: Andy Muckert			Technician:	B. Yarham		
	Contact:	0438 637 443	Contact:	0405 042 814		
	Test Envir	onmental Details:	P	Pre-Test Details:		
Env	/ironment:	Internal Dry Area	Sample Fixed:	Unfixed		
	Weather:	Veather: Fine Direction of Test:		Against Surface Grain		
Ten	nperature:	23 °C	Surface Profile:	Textured		
Slope i	n Degrees:			Slider 96		
Sampl	e Cleaned:	Wiped Clean with Water	Instrument Serial #:	W1020		
		y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r				
L x Refined Bla L x Refined Bla L x Refined Bla tested in 5x lo Slider Condit	ackbutt, Gre ackbutt, Gre ackbutt, Gre ocations in v	y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r arying directions) Mean Test Test Set #1 Test Set #2	nm nm nm	Slope Design Valu Maximum Slope Design Value when WET:		
L x Refined Bla L x Refined Bla L x Refined Bla tested in 5x lo Slider Condit	ackbutt, Gre ackbutt, Gre ackbutt, Gre acations in v ioning	y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r arying directions) Mean Tes Test Set #1	nm nm nm st Values in BPN 34 38	Maximum Slope Design Value when WET:		
L x Refined Bla L x Refined Bla L x Refined Bla tested in 5x la Slider Condit	ackbutt, Gre ackbutt, Gre ackbutt, Gre acations in v ioning	y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r arying directions) Mean Test Test Set #1 Test Set #2 Test Set #3	nm nm nm st Values in BPN 34 38 35	Maximum Slope Design Value when WET: Maximum Slope Design	N//	
L x Refined Bla L x Refined Bla L x Refined Bla tested in 5x la Slider Condit	ackbutt, Gre ackbutt, Gre ackbutt, Gre ocations in v cioning 91	y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r arying directions) Mean Test Test Set #1 Test Set #2 Test Set #3 Test Set #4	nm nm nm st Values in BPN 34 38 35 35 37	Maximum Slope Design Value when WET:	N//	
1 x Refined Bla 1 x Refined Bla 1 x Refined Bla (tested in 5x la Slider Condit	ackbutt, Gre ackbutt, Gre ackbutt, Gre ocations in v cioning 91	y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r arying directions) Mean Test Test Set #1 Test Set #2 Test Set #2 Test Set #3 Test Set #4 Test Set #5 SRV:	nm nm nm st Values in BPN 34 38 35 35 37 35	Maximum Slope Design Value when WET: Maximum Slope Design Value when DRY:	N//	
1 x Refined Bla 1 x Refined Bla 1 x Refined Bla (tested in 5x la Slider Condit	ackbutt, Grev ackbutt, Grev ackbutt, Grev ocations in v cioning 91 63	y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r arying directions) Mean Test Test Set #1 Test Set #2 Test Set #2 Test Set #3 Test Set #4 Test Set #5 SRV:	nm nm nm st Values in BPN 34 38 35 35 37 35 35 35 36	Maximum Slope Design Value when WET: Maximum Slope Design Value when DRY:	N/A	
1 x Refined Bla 1 x Refined Bla 1 x Refined Bla (tested in 5x lo	ackbutt, Grev ackbutt, Grev ackbutt, Grev ocations in v cioning 91 63	y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r y Vinyl Plank, Sample Size 1524x228x2.5r arying directions) Mean Tes Test Set #1 Test Set #2 Test Set #2 Test Set #3 Test Set #4 Test Set #4 Test Set #5 SRV: AUSTRAL	nm nm nm nm st Values in BPN 34 38 35 35 37 35 37 35 36 IAN SLIP CLASSIFICATION	Maximum Slope Design Value when WET: Maximum Slope Design	IE N/A N/A	

supervision. The results provided in this report are representative of the tested samples but the mutual recognition of the equivalence of testing, may not reflect the entire population. Australian Slip Testing Pty Ltd does not warrant that calibration, and inspection reports. the information in this particular report will be free of errors or omissions or that it will be suitable for the client's purposes. Australian Slip Testing Pty Ltd will not be responsible for any decisions or actions based on the information contained herein. This report remains the exclusive property of Australian Slip Testing. The unauthorised reproduction of this report is strictly prohibited.



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#### **AUSTRALIAN SLIP TESTING**

	NATIONAL C	CONSTRUCTIC	N CODE (NCC)	COMPLIANCE GUIDE	Page: 3 of 6
Stip TESTING Learning Abo	out Results Interpretation	Frequently Asked Questions			
There are six levels of classification to achieve with the wet pen	ndulum skid tester.	1). How do I demonstrate NCC compliance?			
These classifications are known as "P" classifications, with "P" s	standing for Pendulum.	a). NCC compliance is demonstrated by achieving the values set out in Table 3A for either the wet			
PO is the lowest classification and P5 is the highest level of class	sification.	pendulum test or the oil-wet inclining ramp test. It is not necessary to meet both criteria. The deemed-to-satisfy (DtS) provisions set out in Volume One of the BCA apply to ramps steeper than 1:14, treads, landing surfaces or nosings or landing edge strips. In Volume Two of the BCA, the			
The classification levels correspond directly with mean <b>BPN</b> (Br	itish Pendulum Number)				
This is <b>Table 2</b> (below-right). <b>Table 2</b> outlines how the classifica classification range outlined in <b>AS4586</b> . This outlines the differe classification range.		-	-	deemed-to-satisfy provisions apply to tread surfaces and nosing striclassifications that have NCC deemed-to-satisfy status are set out in 2). What are the NCC slip testing requirements?	
				2). What are the NCC slip testing requirements?	
Key Note	Key Note TABLE 2 CLASSIFICATION OF PEDESTRIAN SURFACE M ACCORDING TO THE AS 4586 WET PENDULL			a). The DTS Provisions in Volumes One and Two of the NCC now req Stairway treads to have:	uire:
There are two parts to results interpretion (Table 3A & Table			ulum SRV	A surface with a slip-resistance classification not less	than that listed in <b>Table 3</b> 0
<b>3B)</b> and you will need to decide which best suits your	Classification	Slider 96	Slider 55	when tested in accordance with AS 4586; or	
particular application.	Р5	> 54	> 44	<ul> <li>A nosing strip with a slip-resistance classification not</li> </ul>	less than that listed in Table 3A,
First, lets look at Table 3A presented on this page.	P4	45 - 54	40 - 44	when tested in accordance with AS 4586.	
Table 3A is used to classify surfaces of a new build. All existing	P3	35 - 44	35 - 39		
surfaces should be referenced against Table 3B where the	P2	25 - 34	20 - 34	Ramps to have:	
NCC does not apply.	P1	12 - 24	< 20	<ul> <li>A floor surface with a slip-resistance classification no</li> </ul>	ication not less than that listed in Table 3A
	PO	< 12	-	when tested in accordance with <b>AS 4586</b> .	
Do My Results	s Meet NCC Requirement	s?			
Use the table below <b>(Table</b> For example, if a ramp with a 3° gradient (tested wet) has a re			moats NCC requirements	Landings to have: • A surface with a slip-resistance classification not less	than that listed in <b>Table 30</b>
Tor example, if a ramp with a 5 gradient (tested wet) has a fi		4, then yes. The result i	neets Nee requirements.	when tested in accordance with <b>AS 4586</b> ; or	
	WET PENDULUM TEST CLI SUILDING APPLICATIONS I		E DEEMED TO SATISFY THE TRUCTION CODE	• A strip at the edge of the landing with a slip-resistance listed in <b>Table 3A</b> , when tested in accordance with <b>AS</b> 4	
Location			Wet Pendulum Test Classification	a flight below. 3). What type of slider should be used for testing?	
				a). Australian Slip Testing uses both Slider 96 and Slider 55 for vario	us surfaces. Slider 55 has been
Stair Treads and Stairway Landings in Buildings - NCC Volumes	1-2			traditionally used for outdoor surfaces and wet barefoot surfaces (s	
1. Stair treads and a stairway landing (when dry)		96 was developed to replace Slider 55 for testing smoother indoor s			
2. Stair treads and a stairway landing (when wet)		discrimination between such internal surfaces. Both slider types car			
Nosings for Stair Treads and Landings in Public Buildings - NCC	Volumes 1 - 2			their use is at the discretion of the client after consultation with the preference of slider material to be used.	testing technician to their
1. Dry stair tread, a stair non-skid nosing strip and a stairway la	nding		P3	References	
2. Wet stair tread, a stair non-skid nosing strip and a stairway la	anding	Table 3A - HB198:2014 - Guide to the specification and testing of sli	o resistance of pedestrian		
Ramps in Buildings - NCC Volumes 1 - 2				surfaces. <i>Standards Australia.</i> Table 2 - AS4586:2013 - Slip resistance classification of new pedestr	ian surface materials Standards
<b>1.</b> Ramps not steeper than 1:14 (4.1° degrees) gradient - when a	dry		P3	Australia .	an surface matchais. Standards
<b>2.</b> Ramps not steeper than 1:14 (4.1° degrees) gradient - when v		Disclaimer			
<b>3.</b> Ramps steeper than 1:14 (4.1° degrees) up to but not steeper		This information is intended as a guide only. Please consult the ref	erenced publications for further		
4. Ramps steeper than 1:14 (4.1° degrees) up to but not steeper		information regarding measurement results and re	•		

NUSTBALIAN	\\//		USE THIS GUIDE FOR GUIDANCE UNDERSTANDING THE SLIP RESISTANCE MEASUREMENT RECOMMENDATIONS OF A				
			TEST RESULTS GUIDE FOR NON-NCC APPLICATIONS	Page: 4 o			
TES MAR	Learning About Re	sults Interpretation	"Area" Definitions That Apply to Tables 3	SA and 3B			
There are six levels of classification to achieve These classifications are known as " <b>P</b> " classific <b>PO</b> is the lowest classification and <b>P5</b> is the hig The classification levels correspond directly wi This is Table 2 (below). Table 2 outlines how th in AS4586. This outlines the differences you ca	cations, with " <b>P</b> " standing for <b>F</b> ghest level of classification. ith mean BPN (British Pendulu he classification system works	r <b>endulum</b> . m Number) as shown in <sup>-</sup> by referencing the Pendu	ulum SRV against the classification range outlined <b>Wet Area:</b> Those areas that are not defined as a dry ar	y such as by the provision of design ) appropriate to the physical loca naintained in a dry and clean condi rea or transitional area, which may			
LABLE 2			TABLE 3B WET PENDULUM TEST CLASSIFICATIONS FOR APPLICATIONS WHER RESISTANCE	E THE NCC DOES NOT REQUIRE SL			
Classification	Slider 96 Slider 55		Location	Classification			
P5							
P4	45 - 54	40 - 44	External Pavements and Ramps <b>1.</b> External ramps including sloping driveways, footpaths etc. steeper than 1:14 (4.1 °)	P5			
P3	35 - 44	35 - 39	<ol> <li>External ramps including sloping driveways, footpaths etc. steeper than 1.14 (4.1 )</li> <li>External ramps including sloping driveways, footpaths etc. under 1:14 (4.1 )</li> </ol>				
P2	25 - 34	20 - 34	(eg. Markets), external car park areas, external colonnades, walkways, pedestrian crossings,				
P1	12 - 24	< 20	balconies, verandas, carports, driveways, courtyards and roof decks				
PO	< 12	-	3. Undercover car parks	P3			
Noto	es to Table 3B		Hotels, Offices, Public Buildings, Schools and Kindergartens				
			1. Entries and access areas including	WET AREA P3			
Note 1). The slip resistances of pedestrian sur	face materials set out in Table	<b>3B</b> are intended as	hotels, offices, public buildings, schools, kindergartens, TRANSITIONAL AREA				
guidance in the context of design for pedestria		-	internal lift lobbies and common areas of public buildings DRY AREA				
abnormal wear, maintenance, abnormal conta		,	2. Toilet facilities in offices, hotels and shopping centres				
other lubricants, the nature of the pedestrian		crowding), the	3. Hotel apartment bathrooms, ensuites and toilets				
footwear (or lack thereof), slope, lighting, and handrails.			4. Hotel apartment kitchens and laundries				
			Loading Docks, Commercial Kitchens, Cold Stores, Serving Areas	P5			
Note 3). The minimum classification listed in Table 3B is P1. 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			1. Loading docks under cover and commercial kitchens				
			2. Serving areas behind bars in public hotels and clubs, cold stores and freezers Supermarkets and Shopping Centres				
			1. Fast food outlets, buffet food servery areas, food courts and fast food dining areas in shopping centres     P3				
the surface is kept clean and dry; however, sh			2. Shop and supermarket fresh fruit and vegetable areas				
wet or dry material, or be used by pedestrians	s in any other manner, then th	ey may become unsafe.	3. Shop entry areas with external entrances				
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.			4. Supermarket aisles (except fresh food areas)				
			5. Other separate shops inside shopping centres - WET				
			6. Other separate shops inside shopping centres - DRY	P1 (see Note 3)			
R	eferences		Swimming Pools and Sporting Facilities				
Table 3B - HB198:2014 - Guide to the specifica	ation and testing of slip resista	nce of pedestrian	1. Swimming pool ramps and stairs leading to water				
surfaces. Standards Australia.			2. Swimming pool surrounds and communal shower rooms				
Table 2 - AS4586:2013 - Slip resistance classific	cation of new pedestrian surfa	ce materials. Standards	3. Communal change rooms				
Australia .			4. Undercover concourse areas of sports stadiums				
	Disclaimer		Hospitals and Aged Care Facilities	P3			
This information is intended as a guide only. I							
information regarding measur	rement results and recommen	uations.	2. Wards and corridors in hospital and ages care facilities				





Refined Blackbutt, Grey Vinyl 1524x228x2.5mm





# END OF TEST REPORT

# Thank you for choosing us!

We have loved working with you and sincerely hope you've enjoyed your experience with us too. We humbly ask you to leave us a review via Google as your feedback is important to us. It helps us grow and serve you better.

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