

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

## TEST RESULTS INTERPRETATION GUIDE (AUSTRALIA)

Appendix A Wet Pendulum Testing

Appendix B Dry Friction Testing



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## SLIP RESISTANCE MEASUREMENT RESULTS INTERPRETATION GUIDE

Thank you for engaging Independent Slip Testing Services.

This guide is designed to assist you with interpreting your slip resistance measurement results.

Presented in each guide are the slip resistance classifications to achieve for specific locations as per the Australian Standards handbook HB 198:2014.

Wet pendulum and Dry Floor Friction testing guides for National Construction Code and other applications are presented.

ISTS test report formats are designed to meet all requirements of the current Australian Standards while meeting all NATA accreditation guidelines and directives.

If you would like additional personalised guidance in the interpretation of your test reports, our team is always available to assist. Our contact details are listed below...

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ISTS continually revisits test reporting formats and opportunities to make interpretation as simple and clear as possible as Australian Standards are revised and as NATA accreditation requirements allow.

Any suggestions and feedback is welcomed, and our team is always available to help wherever we can.

Thanks again, have a successful day! The ISTS team.



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

INTERPRETING WET TEST RESULTS		<b>*TABLE 2</b> Classification of Pedestrian Surface Materials according to the				
How to interpret yo	ur wet test report			AS 4586-2013 wet pendulum test		
Wet test resul	ts offer six possible outcomes- classification 'P0', 'P1', 'P2', 'P3', 'P4' or 'P5'.			Pendulum*	mean BPN	
The classificat	ion 'P0' reflects a lesser slip resistant surface, while 'P5' classification reflects the gr	eatest slip resistance	CLASSIFICATION	Four S rubber ( Slider 96 )	TRL rubb	
classification.		·	P5	>54		
There are two	parts to this interpretation guide- Firstly the 'National Construction Code requirem	ents', and secondly 'Other	P4	45-54	4	
Particular App	lications' recommendations.	· ·	P3	35-44	3	
For the 'Globa	l Product Classification' test results refer additional #Note below.		P2	25-34	2	
Step 1. Note the test	location described in the left side column of your report, and the corresponding BPI result achieved (listed in the far right side column)	N (British Pendulum	P1	12-24		
Step 2. From this inte (Part 1) or 'TA	rpretation guide, identify the most appropriately related location description descri BLE 3B' (Part 2) . Note the 'P' classification listed to the right of this description.	bed in either 'TABLE 3A'	PU <12			
Step 3. If the test resu surface is mee	It classification listed meets (or exceeds) the related 'P' classification from 'TABLE 3 eting the relevant requirement.	A' or 'TABLE 3B', the test	For test results that achieve a result be increa	elow recommendations, the following t ase slip resistance and Reduce Your Risk	reatment optic	
<b>#Note.</b> For 'Global Prosuitability for '	oduct Classification' test reports the 'TABLE 3A' or 'TABLE 3B' descriptions assist in i various applications.	dentifying the product's	While ISTS is solely an audit service, follo improve the slip	wing is a short list of common types of tre p resistance of various pedestrian surface I	atments we see materials.	
* TABLE 3A	Minimum wet pendulum test result classifications to meet	ATIONS	Acid etching Increasin	ig surface texture.		
	National Construction Code requirements.		Coatings and sealers Surface of	coatings and penetrative types.		
	National Construction Code requirements.	Classification	Coatings and sealers         Surface c           Surface texture         Coatings,           Surface replacement         May be t	- coatings and penetrative types. , etchants, sandblasting, shot blasting he most cost effective option in some	g, etc. e instances.	
Stair Treads and Stai	National Construction Code requirements. Location rway Landings in Buildings - Covered by NCC Volumes 1 - 2	Classification	Coatings and sealers         Surface c           Surface texture         Coatings,           Surface replacement         May be t           An internet search for 'flooring treatmert'         recommends sourcing a number of detail	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment	g, etc. e instances. ssionals in your s, outlining expe	
Stair Treads and Stai 1. Stair treads and a st	National Construction Code requirements. Location rway Landings in Buildings - Covered by NCC Volumes 1 - 2 tairway landing (when dry)	Classification P3	Coatings and sealers       Surface co         Surface texture       Coatings,         Surface replacement       May be t         An internet search for 'flooring treatment' recommends sourcing a number of detail improvement	coatings and penetrative types. , etchants, sandblasting, shot blasting ,he most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment ts, visual changes, clean ability and life exp	g, etc. e instances. ssionals in your s, outlining expe ectancy.	
Stair Treads and Stai 1. Stair treads and a st 2. Stair treads and a st	National Construction Code requirements.         Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)	Classification P3 P4	Coatings and sealers         Surface co           Surface texture         Coatings,           Surface replacement         May be t           An internet search for 'flooring treatment' recommends sourcing a number of detail improvement.	coatings and penetrative types. , etchants, sandblasting, shot blasting ,he most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment is, visual changes, clean ability and life exp	g, etc. e instances. ssionals in your s, outlining expe ectancy.	
Stair Treads and Stai 1. Stair treads and a st 2. Stair treads and a st Nosings for Stair Tre	Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)         ads and Landings in Buildings - Covered by NCC Volumes 1 - 2	Classification P3 P4	Coatings and sealers Surface of Surface texture Coatings, Surface replacement May be t An internet search for 'flooring treatm recommends sourcing a number of detai improvement	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment rs, visual changes, clean ability and life exp DITIONAL NOTES & REFERENCES	g, etc. e instances. ssionals in your s, outlining expe ectancy.	
Stair Treads and Stai 1. Stair treads and a st 2. Stair treads and a st Nosings for Stair Trea 1. Dry stair tread, a sta	Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)         ads and Landings in Buildings - Covered by NCC Volumes 1 - 2         air non-skid nosing strip and a stairway landing	Classification P3 P4 P3	Coatings and sealers Surface of Surface texture Coatings, Surface replacement May be t An internet search for 'flooring treatm recommends sourcing a number of detai improvement	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment ts, visual changes, clean ability and life exp DITIONAL NOTES & REFERENCES	g, etc. e instances. ssionals in your s, outlining expe ectancy.	
<ul> <li>Stair Treads and Stai</li> <li>Stair treads and a st</li> <li>Stair treads and a st</li> <li>Stair treads and a st</li> <li>Nosings for Stair Treads</li> <li>Dry stair tread, a sta</li> <li>Wet stair tread, a sta</li> </ul>	Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)         ads and Landings in Buildings - Covered by NCC Volumes 1 - 2         air non-skid nosing strip and a stairway landing         tairway landing strip and a stairway landing	Classification P3 P4 P3 P4	Coatings and sealers Surface of Surface texture Coatings, Surface replacement May be t An internet search for 'flooring treatm recommends sourcing a number of detai improvement ADI	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment is, visual changes, clean ability and life exp DITIONAL NOTES & REFERENCES	g, etc. e instances. essionals in your s, outlining expe ectancy.	
<ul> <li>Stair Treads and Stai</li> <li>Stair treads and a stai</li> <li>Stair treads and a stai</li> <li>Stair treads and a stai</li> <li>Nosings for Stair Treading</li> <li>Dry stair tread, a stai</li> <li>Wet stair tread, a stai</li> <li>Ramps in Buildings -</li> </ul>	Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)         ads and Landings in Buildings - Covered by NCC Volumes 1 - 2         air non-skid nosing strip and a stairway landing         tair non-skid nosing strip and a stairway landing         Covered by NCC Volumes 1 - 2	Classification P3 P4 P3 P4	Coatings and sealers Surface of Surface texture Coatings, Surface replacement May be t An internet search for 'flooring treatm recommends sourcing a number of detai improvement ADI References *Table 3A- HB198:2014 "Guide to the spec Australia Limited 2014.	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment rs, visual changes, clean ability and life exp DITIONAL NOTES & REFERENCES cification and testing of slip resistance of pe	g, etc. e instances. ssionals in your s, outlining expe ectancy. edestrian surface	
Stair Treads and Stai 1. Stair treads and a st 2. Stair treads and a st Nosings for Stair Treads 1. Dry stair tread, a sta 2. Wet stair tread, a sta Ramps in Buildings - 1. Ramps not steeper	National Construction Code requirements.         Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)         ads and Landings in Buildings - Covered by NCC Volumes 1 - 2         air non-skid nosing strip and a stairway landing         tair non-skid nosing strip and a stairway landing         Covered by NCC Volumes 1 - 2         than 1:14 (4.1 degrees) gradient (when dry)	Classification P3 P4 P4 P3 P4 P4	Coatings and sealers Surface of Surface texture Coatings, Surface replacement May be t An internet search for 'flooring treatm recommends sourcing a number of detai improvement ADI References *Table 3A- HB198:2014 "Guide to the spec Australia Limited 2014. *Table 2- AS 4586-2013 "Slip resistance cla	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment ts, visual changes, clean ability and life exp DITIONAL NOTES & REFERENCES cification and testing of slip resistance of per- assification of new pedestrian surface mate	g, etc. e instances. ssionals in your s, outlining expe ectancy. edestrian surface	
<ul> <li>Stair Treads and Stai</li> <li>Stair treads and a st</li> <li>Stair treads and a st</li> <li>Stair treads and a st</li> <li>Nosings for Stair Treads</li> <li>Dry stair tread, a stain</li> <li>Wet stair tread, a stain</li> <li>Wet stair tread, a stain</li> <li>Ramps in Buildings -</li> <li>Ramps not steeper</li> <li>Ramps not steeper</li> </ul>	Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)         ads and Landings in Buildings - Covered by NCC Volumes 1 - 2         air non-skid nosing strip and a stairway landing         tair non-skid nosing strip and a stairway landing         Covered by NCC Volumes 1 - 2         than 1:14 (4.1 degrees) gradient (when dry)         than 1:14 (4.1 degrees) gradient (when wet)	Classification P3 P4 P4 P3 P4 P4 P3 P4	Coatings and sealers Surface of Surface texture Coatings, Surface replacement May be t An internet search for 'flooring treatm recommends sourcing a number of detai improvement ADI References *Table 3A- HB198:2014 "Guide to the spec Australia Limited 2014. *Table 2- AS 4586-2013 "Slip resistance cla	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe iled proposals when considering treatment ts, visual changes, clean ability and life exp DITIONAL NOTES & REFERENCES cification and testing of slip resistance of penessification of new pedestrian surface mate	g, etc. e instances. ssionals in your s, outlining expe ectancy. edestrian surface erials".	
<ul> <li>Stair Treads and Stai</li> <li>Stair treads and a stai</li> <li>Stair treads and a stai</li> <li>Nosings for Stair Tread, a stair tr</li></ul>	National Construction Code requirements.         Location         rway Landings in Buildings - Covered by NCC Volumes 1 - 2         tairway landing (when dry)         tairway landing (when wet)         ads and Landings in Buildings - Covered by NCC Volumes 1 - 2         air non-skid nosing strip and a stairway landing         tair non-skid nosing strip and a stairway landing         Covered by NCC Volumes 1 - 2         than 1:14 (4.1 degrees) gradient (when dry)         than 1:14 (4.1 degrees) gradient (when wet)         n 1:14 (4.1 degrees) up to but not steeper than 1:8 (7.1 degrees) (when dry)	Classification  P3 P4  P3 P4  P3 P4  P3 P4  P4  P4 P4 P4 P4 P4 P4 P4 P4 P4 P4 P	Coatings and sealers Surface of Surface texture Coatings, Surface replacement May be t An internet search for 'flooring treatm recommends sourcing a number of detail improvement ADI References *Table 3A- HB198:2014 "Guide to the spect Australia Limited 2014. *Table 2- AS 4586-2013 "Slip resistance cla nb. The information p	coatings and penetrative types. , etchants, sandblasting, shot blasting the most cost effective option in some ments' will identify surface treatment profe- iled proposals when considering treatment is, visual changes, clean ability and life exp DITIONAL NOTES & REFERENCES cification and testing of slip resistance of per- assification of new pedestrian surface mate provided is intended as a guide only, consul- mation in regards to measurement results	g, etc. e instances. ssionals in your s, outlining expe ectancy. edestrian surface erials". t the referenced and recommend	

AS 4586-2013 wet pendulum test			
	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	

P3	35-44	35-39
P2	25-34	20-34
P1	12-24	< 20
P0	<12	-

#### TREATMENT OPTIONS

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

udit 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.

or '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**

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

The information provided is intended as a guide 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 Pavem	ents and Ramps		
1. External ramps inc	cluding sloping driveways, footpaths etc. steeper than 1 in 14 (4.	1 <sup>0</sup> )	Р5
2. External ramps inc	cluding sloping driveways, footpaths, etc., under 1:14 (4.1 $^{\circ}$ ), exte	ernal sales areas	P4
(eg. markets), exte	ernal car park areas, external colonnades, walkways, pedestrian	crossings,	
balconies, veranda	as, carports, driveways, courtyards and roof decks		
3. Undercover car pa	ırks		P3
Hotels, Offices,	Public Buildings, Schools and Kindergartens		
1. Entries and access	areas including	Wet area	P3
hotels, offices, pu	blic buildings, schools, kindergartens,	Transitional area	P2
internal lift lobbie	s and common areas of public buildings	Dry area	P1 (see Note 3)
2. Toilet facilities in c	offices, hotels and shopping centres		Р3
3. Hotel apartment b	pathrooms, ensuites and toilets		P2
4. Hotel apartment k	itchens and laundries		P2
Loading Docks,	Commercial Kitchens, Cold Stores, Serving Areas		
1. Loading docks und	ler cover and commercial kitchens		P5
2. Serving areas behi	ind bars in public hotels and clubs, cold stores and freezers		P4
Supermarkets a	nd Shopping Centres		
1. Fast food outlets,	buffet food servery areas, food courts and fast food dining areas	s in shopping centres	P3
2. Shop and superma	arket fresh fruit and vegetables area		P3
3. Shop entry areas w	with external entrances		Р3
4. Supermarket aisle	s (except fresh food areas)		P1 (see Note 3)
5. Other separate sh	ops inside shopping centres - wet		P3
6. Other separate sh	ops inside shopping centres - dry		P1 (see Note 3)
Swimming Pool	s and Sporting Facilities		
1. Swimming pool ra	mps and stairs leading to water		P5
2. Swimming pool su	rrounds and communal shower rooms		P4
3. Communal changi	ng rooms		P3
4. Undercover conco	urse areas of sports stadiums		P3
Hospitals and A	ged Care Facilities		
1. Bathrooms and en	suites in hospitals and aged care facilities		P3
2. Wards and corrido	ors in hospital and aged care facilities		P2
Form #17.4	Revision Date 04-11-2017		

*TABLE 2 Classification of Pedestrian Surface Materials according to the AS 4586-2013 wet pendulum test				
	Pendulum <sup>*</sup> 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 -			

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.

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.



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### DRY TEST RESULTS INTERPRETATION GUIDE (AUSTRALIA)

INTERPRETING DRY TEST RESULTS		<b>*TABLE 3</b> Classification of Pedestrian Surface Materials according to the AS 4586-2013 dry floor friction test			
How to	interpret your dry test report			713 1300 2013 di	
	Dry test results offer two possible outcomes- classification 'D0' or classification 'D1'.		Classification Result		Test Result Mean Value
	The classification 'D0' reflects a less slip resistant surface, while the recommended 'D1' classification reflects a greater slip		(AS 4586-2013)		(COF)
	resistant surface.		D1		≥ 0.40
Step 1.	Note the test location described in the left side column of your report, and the corresponding test result Coefficient of Friction number achieved (listed in the far right side column).		D0 < 0.40		< 0.40
Step 2.	If the test result classification listed is 'D1', the test surface is meeting the relevant recommendations.	TREATMENT OPTIONS		IT OPTIONS	
		For t	est results that achieve a	result below recommer	ndations, the following treatment options are available
				to increase slip resistan	ce and Reduce Your Risk!
	FREQUENTLY ASKED QUESTIONS				
<i>1.</i> The	mean test average is ≥0.40, however the result is 'D0' classification ?	While ISTS is solely an audit service, following is a short list of common types of treatments we see our clients usin improve the slip resistance of various pedestrian surface materials		of common types of treatments we see our clients using to ous pedestrian surface materials	
A	. The mean of the test results should be equal to or greater than 0.40 and each individual result should be equal to or greater		Cleaning procedures	Minimising deterger	nt residue build up or other contaminants.
	than 0.35. If either of this criteria is not met, the lot shall be considered to be 'D0' classification.		Acid etching	Increasing surface to	exture.
2. Wh	at does * and ** mean?		Coatings and sealers	Surface coatings and	d penetrative types.
A	. * Indicates part of a test run registered under 0.40.		Surface texture	Coatings, etchants,	sandblasting, shot blasting, etc.
	** Indicates part of a test run registered less than 0.35 resulting in a compulsory 'D0' classification.	s	urface replacement	May be the most co	st effective option in some instances.
3. Why are test results rounded to the nearest 0.05?		An	An internet search for 'floorina treatments' will identify surface treatment professionals in your local area. ISTS		
A. As described in the relevant standards, the mean result of Test 1 & Test 2 is rounded to nearest 0.05.		recommends sourcing a number of detailed proposals when considering treatments, outlining expected slip			
4. Wh	at is the classification requirement for particular locations as stated in publication #HB198:2014?	resistance improvements, visual changes, clean ability and life expectancy.			nges, clean ability and life expectancy.
A	. The Australian testing standards provide classification criteria for dry test results. Handbook HB198 does not provide interpretation of dry test results.				
5. Hov	5. How about dry testing for external areas?		ADDITIONAL NOTES & REFERENCES		
A	Dry slip resistance measurement does not apply to external surfaces. If a pedestrian surface is likely to become wet and remain wet for any significant period of time, wet pendulum testing is the appropriate test method.	Refe	rences		
6. Hov	v do I improve the slip resistance of a surface currently achieving 'D0' classification?	*Table	e 3- AS 4586-2013 "Slip resi	stance classification of ne	w pedestrian surface materials".
A	. Many treatments and procedures are available to improve slip resistance. Treatment options will vary depending on the type of surface and whether a sealed or unsealed finish is required. Described on the right are a list of options to improve slip resistance and Reduce Your Risk!	#HB19	98:2014 "Guide to the spec nb. The inform publications for furth	ification and testing of slip nation provided is intende er information in regards	resistance of pedestrian surfaces". d as a guide only, consult the referenced to measurement results and recommendations.



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

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.

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. Have a successful day!

