



Reduce Your Risk![®]

Independent Slip Testing Services

INSTRUMENT CALIBRATION

TEST REPORT

SLIP RESISTANCE CLASSIFICATION OF
NEW PEDESTRIAN SURFACE MATERIALS

AS/NZ: 4586.2004

Appendix A - Wet Pendulum Testing

Prepared For:

Advance Flooring Systems Ltd

Product Description:

Evertread With Polyamide Insert, Black, Matting
Insert

Issue Date: 26-04-2023

Page: 1 of 5

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TEST REPORT- Wet Pendulum Slip Resistance Classification (New Zealand Standard)

Report Prepared for: Advance Flooring Systems Ltd
10 Harbour Ridge Drive
Wiri AKL 2104 New Zealand

Page #: 2 of 5
Contract #: 8006

Test Date: 18/04/2023
Test Site: Independent Slip Testing Services- Slip Resistance Testing Facility (Three Kings NZ)
Testing Technician: M.Logan
Testing Instrument: Pendulum Skid Tester with Slider 96 (4S) rubber slider
Testing Instrument W5- Serial #: W1036

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

1. 1x Evertread With Polyamide Insert, Black, Matting Insert, Sample Size 20x20cm
2. 1x Evertread With Polyamide Insert, Black, Matting Insert, Sample Size 20x20cm
3. 1x Evertread With Polyamide Insert, Black, Matting Insert, Sample Size 20x20cm
4. 1x Evertread With Polyamide Insert, Black, Matting Insert, Sample Size 20x20cm
5. 1x Evertread With Polyamide Insert, Black, Matting Insert, Sample Size 20x20cm

Surface Condition:	Profiled	Cleaning:	Tested as received
Fixed/ Unfixed:	Unfixed	Rz Mean:	n/a
Environmental Conditions:	Internal- Non airconditioned	Air Temp:	23 Deg.C
Direction of Test:	As indicated on underside of sample	Slope:	n/a

INTERPRETATION OF THE WET PENDULUM RESULTS

Classification	Pendulum mean BPN Slider 96 (4S) rubber	Notional contribution of the floor surface to the risk of slipping when wet
V	>54	Very Low
W	45-54	Low
X	35-44	Moderate
Y	25-34	High
Z	<25	Very High

TEST RESULTS

Specimen	#1 Result:	52 bpn	Slider condition (P400):	86 BPN
	#2 Result:	51 bpn		Temperature adjustment:
	#3 Result:	54 bpn		
	#4 Result:	54 bpn		
	#5 Result:	53 bpn		

CLASSIFICATION

CLASSIFICATION	PENDULUM MEAN BPN Slider 96 (4S) rubber	NOTIONAL CONTRIBUTION OF THE FLOOR SURFACE TO THE RISK OF SLIPPING WHEN WET
W	53 BPN	Low

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

^ When 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 (Internal):	10 deg
Maximum Slope Design Value (External):	N/A

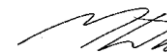
DISCLAIMER:

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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.



Accreditation No. 14967


Signatory: Mick Walton

Testing was carried out using the Wet Pendulum Test Method
in accordance with New Zealand Standard AS/NZS.4586:2004

INTERPRETING WET TEST RESULTS

How to interpret your wet test report...

Wet test results offer five possible outcomes- classification 'V', 'W', 'X', 'Y' or 'Z'.

The classification 'Z' reflects a lesser slip resistant surface, while 'V' classification reflects the greatest slip resistance classification.

- Step 1.** If the test result classification reported meets (or exceeds) the related classification from 'TABLE 1' below, the test surface is meeting the relevant requirement.

***TABLE 1**

Pedestrian flooring selection guide- Minimum pendulum recommendations for specific locations (HB197:1999)

Location	Pendulum
1. External colonnade, walkways & pedestrian crossings	W
2. External ramps	V
3. Entry foyers hotel, office & public buildings -wet areas	X
4. Entry foyers hotel, office & public buildings -dry areas	Z
5. Shopping centre (excluding food court)	Z
6. Shopping centre food court	X
7. Internal ramps, slopes (greater than 2 degrees) -dry areas	X
8. Lift lobbies above external entry level	Z
9. Other separate shops inside shopping centres	Z
10. Other shops with external entrances- entry area	X
11. Fast food outlets, buffet food servery areas	X
12. Hospitals and aged care facilities- dry areas	Z
13. Hospitals and aged care facilities- ensuities	X
14. Supermarket aisles except fresh food areas	Z
15. Shop and supermarket fresh fruit & vegetable areas	X
16. Communal changing rooms	X
17. Swimming pool surrounds and communal shower rooms	W
18. Swimming pool ramps and stairs leading to water	V
19. Toilet facilities in offices, hotels, shopping centres	X
20. Undercover concourse areas of sports stadium	X
21. Accessible internal stair nosings (dry areas)- handrails present	X
22. Accessible internal stair nosings (wet areas)- handrails present	W
23. External stair nosings	W

***TABLE 2**

Classification of Pedestrian Surface Materials (AS/NZS.4586:2004)

Interpretation of the Wet Pendulum Results (AS/NZS.4663:2004)

Pendulum* mean BPN		Classification	Notional contribution of the floor surface to the risk of slipping when water wet
Four S rubber	TRL rubber		
>54	>44	V	(Very Low)
45-54	40-44	W	(Low)
35-44	-	X	(Moderate)
25-34	-	Y	(High)
<25	-	Z	(Very High)

TREATMENT OPTIONS

For surfaces that achieve a BPN result below the recommendations the following are options are available to increase slip resistance and Reduce Your Risk!

While ISTS is solely 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	Detergent residues can build up over time with heavy detergent use.
Acid etching	For tiled surfaces. Can vary in performance with different tile types.
Wet sand/ Soda blasting	To obtain a textured finish to tiles and other hard surfaces (may require sealing).
Shot blasting	More extreme treatment to wet sand blasting (may require sealing).
Textured coatings	Ensure a consistent texture is achieved.
Surface replacement	Replacement surface may be the most cost effective option in some locations

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

ADDITIONAL NOTES & REFERENCES

R' Ratings The Ramp 'R' ratings are obtained using the ramp test. An 'R' rating can not be achieved for in-situ testing. There is no correlation between 'R' ratings and wet pendulum test results.

References *Table 1- HB197:1999 "An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials" CSIRO 1999 and Standards Australia 1999

*Table 2- AS/NZS.4586:2004 Slip resistance classification of new pedestrian surfaces & AS/NZS.4663:2004 Slip resistance measurement of existing pedestrian surfaces

**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: Evertread With Polyamide Insert, Black, Matting Insert

Test Date: 18-04-2023



Accreditation No. 14967

END OF TEST REPORT

Have a successful day!

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



地板产品的抗滑性测量

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.
Have a successful day!



Slip Testing

*Recommended Slip Classifications
National & Global Guides
Slope Conversions*



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