

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

# **TEST REPORT**

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS AS/NZS.4586:2004

Appendix A - Wet Pendulum Testing

Prepared For: Advance Flooring Company

*Product Description:* Neoflex (with Fresh Finish)

Test Date: 22/05/2015





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Report Prepared for:	Advance Flooring Company PO Box 13184 Auckland 1643 New Zealand
Test Date:	22/05/2015
Test Site:	Independent Slip Testing Services- Slip Resistance Laboratory (Lota QLD)
Testing Technician:	M.Walton
Testing Instrument:	Mastrad Wet Pendulum Skid Tester with 4S rubber slider
	Testing Instrument Serial #: SK1225 (W2)

	TESTING SPECIMENS	DESCRIPTION, SIZE	E & COATING (If app
x Neoflex (with Fresh Finish), I	Black Vinyl, 30x30cm		
x Neoflex (with Fresh Finish), I	Black Vinyl, 30x30cm		
x Neoflex (with Fresh Finish), I	Black Vinyl, 30x30cm		
x Neoflex (with Fresh Finish), I	Black Vinyl, 30x30cm		

5. 1 x Neoflex (with Fresh Finish), Black Vinyl, 30x30cm			
Surface Condition:	Fine Textured	Cleaning:	Tested as received
Fixed/ Unfixed:	Unfixed	Rz Mean:	n/a
Environmental Conditions:	Internal- Non airconditioned	Air Temp:	22 Deg.C
Direction of Test:	As indicated on underside of sample	Slope:	n/a

INTERPRETATION OF THE WET PENDULUM RESULTS		
Classification	Pendulum mean BPN (4S rubber)	Notional contribution of the floor surface to the risk of slipping when wet
V	>54	Very Low
W	45-54	Low
х	35-44	Moderate
Y	25-34	High
Z	<25	Very High

## **TEST RESULTS**

Specimen	#1 Result:	32 bpn		
	#2 Result:	28 bpn		
	#3 Result:	28 bpn	Slider condition (P400):	84 BPN
	#4 Result:	28 bpn	Slider condition (Lapping):	n/a
	#5 Result:	28 bpn	Temperature adjustment:	n/a

## CLASSIFICATION

CLASSIFICATION	PENDULUM MEAN BPN (4S rubber)	NOTIONAL CONTRIBUTION OF THE FLOOR SURFACE TO THE RISK OF SLIPPING WHEN WET
Y	29 BPN	High
The mean results of the flue specimens is reported (rounded to pearest whele number)		

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 (when dry):	n/a
Maximum Slope Design Value (when wet):	n/a

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NATA Accreditation #14967



Testing was carried out using the Wet Pendulum Test Method (Using 4S rubber slider) in accordance with New Zealand Standard AS/NZS.4586:2004



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

# WET TEST RESULTS INTERPRETATION GUIDE (NZ)

Step 1 Compare description of reported test location to the most relevant location description in Table 1. \* Note the pendulum classification for that location.

- Step 2 Note the recommended pendulum classification BPN range (Four S rubber) in Table 2.
- Compare the recommended BPN range to the actual test report result. Step 3

#### \*TABLE 1

Pedestrian flooring selection guide- Minimum pendulum or ramp recommendations

### for specific locations (HB197:1999)

Location	Pendulum	Ramp
1. External colonnade, walkways & pedestrian crossings	W	R10
2. External ramps	V	R11
3. Entry foyers hotel, office & public buildings -wet areas	Х	R10
4. Entry foyers hotel, office & public buildings -dry areas	Z	R9
5. Shopping centre (excluding food court)	Z	R9
6. Shopping centre food court	Х	R10
7. Internal ramps, slopes (greater than 2 degrees) -dry areas	Х	R10
8. Lift lobbies above external entry level	Z	R9
9. Other separate shops inside shopping centres	Z	R9
10. Other shops with external entrances- entry area	Х	R10
11. Fast food outlets, buffet food servery areas	Х	R10
12. Hospitals and aged care facilities- dry areas	Z	R9
13. Hospitals and aged care facilities- ensuites	Х	A or R10
14. Supermarket aisles except fresh food areas	Z	R9
15. Shop and supermarket fresh fruit & vegetable areas	Х	R10
16. Communal changing rooms	Х	А
17. Swimming pool surrounds and communal shower rooms	W	В
18. Swimming pool ramps and stairs leading to water	V	С
19. Toilet facilities in offices, hotels, shopping centres	Х	R10
20. Undercover concourse areas of sports stadium	Х	R10
21. Accessible internal stair nosings (dry areas)- handrails present	Х	R10
22. Accessible internal stair nosings (wet areas)- handrails present	W	B or R11
23. External stair nosings	W	R11

	Interpretation of the Wet Pendulum Results (AS/NZS.4663:2004)			
Pendulum	Pendulum* mean BPN		Notional contribution of the floor surface	
Four S rubber	Four S rubber TRL rubber		to the risk of slipping when water wet	
>54	>44	v	Very Low	
45-54	40-44	w	Low	
35-44	-	х	Moderate	
25-34	-	Y	High	
<25	-	Z	Very High	
T <sub>1</sub>		-		

\*TABLE 2 Classification of Pedestrian Surface Materials (AS/NZS.4586:2004)

#### 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!

As a guide, possible styles of treatments we see our clients using to improve slip resistance include:

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

For treatment suppliers in your local area search the internet for options listed above or in the yellow pages 'flooring treatments' section. 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

Form #:NZ 17.2. Revision Date 11-05-2014



# **TEST PRODUCT IMAGE**

**Product Description:** Neoflex (with Fresh Finish)

Test Date: 22/05/2015



