

A Guide for the Comparison of Wet Slip Resistance Measurement Results to **Standards Australia Recommendations (HB197:1999)**

Interpreting Wet Test Results

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 pendulum classification BPN range (Four S rubber) in Table 2. Step 3 Note the equivalent contribution to risk classification in Table 3.

Step 4 Compare the recommended BPN range to the actual test report result.

If the test result falls within the recommended BPN range for that test area, the surface meets the recommendations.

*IABLE 1			Additional Notes
PEDESTRIAN FLOORING SELECTION GUIDE- MINIM	& References		
RECOMMENDATIONS FOR SPECIFIC LOCAT	R' Ratings		
Location	Pendulum	Ramp	NB. The Ramp 'R' ratings are achieved
External colonnade, walkways & pedestrian crossings	W	R10	using the ramp test method. An 'R'
External ramps	V	R11	rating can not be achieved for in-situ
Entry foyers hotel, office & public buildings -wet areas	Х	R10	testing. There is no direct correlation
Entry foyers hotel, office & public buildings -dry areas	Z	R9	between 'R' ratings and wet
Shopping centre (excluding food court)	Z	R9	pendulum test results.
Shopping centre food court	Х	R10	Dry testing Results
Internal ramps, slopes (greater than 2 degrees) -dry areas	Х	R10	Dry slip resistance measurement results
Lift lobbies above external entry level	Z	R9	have two possible results:
Other separate shops inside shopping centres	Z	R9	Moderate to Very Low Risk (F) or
Other shops with external entrances- entry area	Х	R10	High to Very High Risk (G).
Fast food outlets, buffet food servery areas	Х	R10	References
Hospitals and aged care facilities- dry areas	Z	R9	*Table 1- HB197:1999
Hospitals and aged care facilities- ensuites	Х	A or R10	"An Introductory Guide to the Slip
Supermarket aisles except fresh food areas	Z	R9	Resistance of Pedestrian Surface Materials
Shop and supermarket fresh fruit & vegetable areas	Х	R10	CSIRO 1999 and Standards Australia 1999
Communal changing rooms	Х	А	*Table 2- AS/NZS.4586:2004
Swimming pool surrounds and communal shower rooms	W	В	Slip resistance classification of new
Swimming pool ramps and stairs leading to water	V	С	pedestrian surface materials, Standards
Toilet facilities in offices, hotels, shopping centres	Х	R10	Australia/ Standards New Zealand, 2004
Undercover concourse areas of sports stadium	Х	R10	*Table 3- AS/NZS.4663:2004
Accessible internal stair nosings (dry areas)- handrails present	Х	R10	Slip resistance measurement of existing
Accessible internal stair nosings (wet areas)- handrails present	W	B or R11	pedestrian surfaces, Standards Australia/
External stair nosings	W	R11	Standards New Zealand, 2004

*TABLE 2 Classification of Pedestrian Surface Materials (AS/NZS.4586 :2004)		*TABLE 3 Interpretation of the wet pendulum results (AS/NZS.4663:2004)			
Pendulum*	mean BPN	Classification	Pendulum'	mean BPN	Notional contribution of the floor surface
Four S rubber	TRL rubber		Four S rubber	TRL rubber	to the risk of slipping when water wet
>54	>44	V	>54	>44	Very Low
45-54	40-44	W	45-54	40-44	Low
35-44	-	Х	35-44	-	Moderate
25-34	-	Y	25-34	-	High
<25	-	Z	<25	-	Very High

	Treatment Options				
the test results achieve a BPN result below the recommendations there are often options 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.				
2. Acid etching	Often used on tiled surfaces. Can vary in performance with different tile types.				
3. Wet sand/ Soda blasting	Used 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.				
5. Surface replacement	A replacement or alternate surface may be the most cost effective option in some circumstances.				
or 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, cleanability and life expectancy. The information provided is intended as a guide only, consult the referenced publications for further information in regards to measurement results and recommendations

Additional Notes & References R' Ratings