

Report 18609.4 28 October 2022



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WET PENDULUM SLIP RESISTANCE TEST

Berger - Seidle BaseOil applied to engineered timber flooring

Prepared for:	Coating Systems Kurt Beyer 740 Lorimer Street PORT MELBOURNE VIC 3207
Specimen Description:	Berger - Seidle BaseOil applied to engineered timber flooring, 500x1000 mm.
No. of Specimens:	5 off (Sampling Conducted by Client)
Specimen Preparation:	Washed with water and pH neutral detergent, rinsed then dried.
Test Condition & Slope:	Unfixed, N/A
Test Direction:	Test conducted parallel with grain of timber.
Air Temperature:	22°C
Test Standard:	AS 4586:2013 Slip resistance classification of new pedestrian surface materials, Appendix A - Wet Pendulum Test
Test Location:	ATTAR 44-48 Rocco Drive, Scoresby, VIC, 3179
Test Date:	26 October 2022
Test Equipment:	Munro Stanley Pendulum Skid Resistance Tester Serial Number 0320, Calibrated 03/05/2022.
Slider Rubber:	Slider 96 Batch No. #15 prepared on P400 & 3µm lapping film.
Test Personnel:	Dale Siegle

Specimen Number	1	2	3	4	5
Mean British Pendulum Number (BPN)	42	41	41	40	41
Slip Resistance Value (SRV)	41				
Classification	P3				

These results apply only to the specimens tested and it is recommended that before selection of flooring or paving materials the effect of service conditions, including maintenance procedures and wear on their slip resistance be checked. Where alternatives are permitted by the standard, the choice of rubber slider used may also influence the test results obtained.

Recer

Dale Siegle Technical Consultant - Compliance Services Approved Signatory

Reviewed By:

Marcus Braché Senior Engineering Technician Approved Signatory

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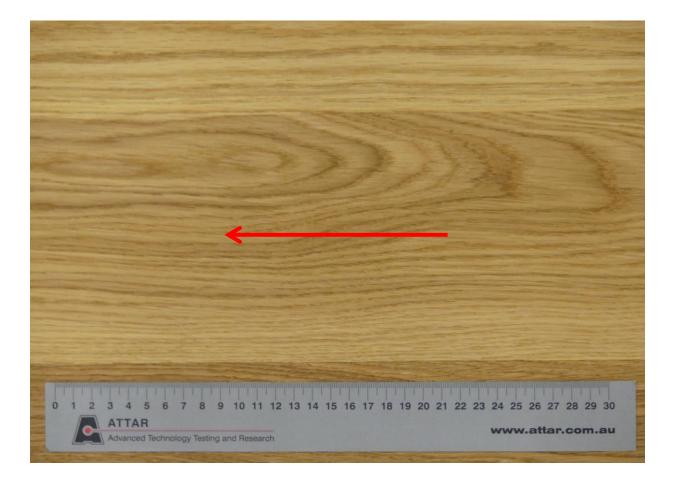


 Figure 1:
 Berger - Seidle BaseOil applied to engineered timber flooring Arrow indicates direction of testing



<u>CLASSIFICATION CRITERIA – AS 4586 – 2013</u> Wet Pendulum Test - Appendix A

Slip resistance

When this Standard is used for the testing and classification of the slip resistance of carpets (or carpet-like products) in potentially wet locations, the carpet shall be tested using the wet pendulum test method set out in Appendix A of AS 4586, and shall be reported as such.

When this AS 4586 is used for the testing and classification of the slip resistance of carpets in dry locations, the test shall be carried out in the dry condition using the pendulum test method set out in Appendix A of AS 4586, modified in accordance with Paragraph A2, and shall be reported as such.

The 'dry floor friction' test method in Appendix B of AS 4586 is not suitable for heavily profiled surfaces or carpets.

Compliance

The surface shall comply with the stated classification for the test method and test rubber that is nominated and declared by the manufacturer or supplier.

Class	Pendulum SRV (see Note 1)		
Class	Slider 96	Slider 55	
P5	>54	>44	
P4	45-54	40-44	
P3	35-44	35-39	
P2	25-34	20-34	
P1	12-24	<20	
P0	<12		

TABLE 2: CLASSIFICATION OF PEDESTRIAN SURFACE MATERIALS ACCORDING TO THE AS 4586 WET PENDULUM TEST

NOTES:

1

While Slider 96 or Slider 55 rubbers may be used, the test report shall specify the rubber that was used.

2 It is expected that these surfaces will have greater slip resistance when dry.

3 SDV may be calculated by using the tables that are given in Appendix F of AS 4586, and the minimum SRV that is considered appropriate for a level surface (see examples given in Appendix F of AS 4586).

Means of demonstrating compliance

Pedestrian surfaces that are classified in accordance with Table 2 shall meet the following criteria:

- (a) The mean test results shall be as follows:
 - (i) For the classifications in Table 2, the mean of the test results shall be-
 - (A) within the relevant criteria set out in the table; and
 - (B) each individual result shall be equal to or above the lower limit for the classification or, if below the classification, within the mean of the result minus 20%.

If either criteria is not met, the lot shall be considered to be of lower classification.

- (b) The classification in accordance with Table 2 shall be determined by—
 - (i) selecting and testing at least five specimens at random as specified in Appendices A and B of AS 4586; or
 - (ii) carrying out continuous testing and process control in accordance with AS 3942.
- (c) When testing individual lots, if a particular test fails to produce the expected classification it shall be permissible to—
 - (i) disregard the first sample, resample a minimum of 10 specimens from the whole lot, retest and apply the criteria to the new sample; or
 - (ii) subdivide the lot into smaller lots of different quality, resample, retest and reclassify each of the smaller lots.

SA HB 198:2014 Handbook Guide to the specification and testing of slip resistance of pedestrian surfaces

5.2 Classifications for particular applications

Table 3B provides guidance for pedestrian surfaces for particular applications. The values represent a consensus view of Committee BD-094, although not all experts agree on all values. The values in Table 3B have been determined by the following process:

- Applications and corresponding values were selected initially from HB 197:1999.
- A subcommittee of Committee BD-094 modified some applications and values, and these were further modified during the review process.
- The contents of Table 3B are subject to further review by Committee BD-094, in its ongoing project to provide guidance on specifying and testing for slip resistance.

For completeness, Table 3A is also reproduced here from the previous Section.

There are some fundamental differences in the purpose and nature of Tables 3A and 3B.

- Table 3A applications and values have been determined by the Australian Building Codes Board for use in regulations based on the NCC. It provides the minimum wet pendulum test or oil-wet inclining platform test classifications that are deemed-to-satisfy specific applications in buildings covered by the NCC. These values may be used as acceptance criteria in a range of situations, including those where the building incorporates only the minimum regulated NCC requirements for handrails, lighting and the like.
- Table 3B applications and values have been determined by Committee BD-094 for use in applications that are not regulated by the NCC. It provides wet pendulum test or oil-wet inclining platform test classifications for applications where the NCC does not specifically require slip resistance. The applications listed are some of those for which slip resistance is warranted for reasons other than NCC compliance. The use of these values should be in the context of design, which also considers abnormal wear, maintenance, abnormal contamination, the presence (or otherwise) of water or other lubricants, the nature of the pedestrian traffic (including age, gait and crowding), the footwear (or lack thereof), slope, lighting and handrails.

TABLE 3A

MINIMUM WET PENDULUM TEST OR OIL-WET INCLINING PLATFORM CLASSIFICATIONS THAT ARE DEEMED-TO-SATISFY THE BUILDING APPLICATIONS IN THE NCC

Location	Wet Pendulum test	Oil-wet inclining platform test
Stair Treads and Stairway Landings in Buildings Covered by NCC Volumes One and Two		
Stair treads and a stairway landing (when dry) Stair treads and a stairway landing (when wet)	P3 P4	R10 R11
Nosings for Stair Treads and Stairway Landings in Buildings Covered by NCC Volumes One and Two		
Dry stair tread, a stair non-skid nosing strip and a stairway landing	P3	
Wet stair tread, a stair non-skid nosing strip and a stairway landing	P4	
Ramps in Buildings Covered by NCC Volumes One and Two		
Ramps not steeper than 1:14 gradient (when dry)	P3	R10
Ramps not steeper than 1:14 gradient (when wet)	P4	R11
Ramps steeper than 1:14 up but not steeper than 1:8 (when dry)	P4	R11
Ramps steeper than 1:14 up but not steeper than 1:8 (when wet)	P5	R12

NOTE: NCC compliance is demonstrated by achieving the values set out in this Table for either the wet pendulum test or the oil-wet inclining ramp test. It is not necessary to meet both criteria.

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TABLE 3B

WET PENDULUM TEST OR OIL-WET INCLINING PLATFORM CLASSIFICATIONS FOR APPLICATIONS WHERE THE NCC DOES NOT REQUIRE SLIP RESISTANCE

External ramps including sloping driveways, footpaths etc.External ramps including sloping driveways, footpaths etc.P5R12Steeper han 1 in 14P4R111:14, external sales areas (eg. Markets), external carpark areas, external colonades, walkways, pedestrian crossings, balconies, verandas, carports, driveways, courtyards and roof decks.P4R11Undercover car parksP3R10Hotels, Offices, Public Buildings, Schools and KindergartensP3R10Entries and access areas including hotels, offices, public buildings, internal lift lobbies.P3R10Wet AreaP3R10P2R9Transitional AreaP2R9P1 (see Note 3)R9Dry AreaP1 (see Note 3)P2AHotel apartment bathrooms, en suites and toiletsP2R9Supermarkets and Shopping centresP3R10Fast food outlets, buffet food servery areas, food courts and fast food dining areas in shopping centresP3R10Shop and supermarket resh fruit and vegetable areasP3R10Shop entry areas with external entrancesP3R10Supermarket aisles (except fresh fruit and vegetable areasP3R10Supermarket aisles (except fresh fruit and vegetable areasP3R10Shop entry areas with external entrancesP3R10Supermarket aisles (except fresh fruit and vegetable areasP3R10Shop entry areas bopis inside shopping centres - vetP1 (see Note 3)R9Ubder separate shops inside shopping centres - v	Location	Wet Pendulum test	Oil-wet inclining platform test	
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	Hospitals and Aged Care Facilities			
	Bathrooms and en suites in hospitals and aged care facilities	P3	В	

NOTES TO TABLE 3B:

 The slip resistances of pedestrian surface materials set out in Table 3B are intended as guidance in the context of design for pedestrian safety, taking account other factors including abnormal wear, maintenance, abnormal contamination, the presence (or otherwise) of water or other lubricants, the nature of the pedestrian traffic (including age, gait and crowding), the footwear (or lack thereof), slope, lighting and handrails.

2. The contents of Table 3B are subject to further review by Committee BD-094, in its on-going project to provide guidance on the specification and testing of slip resistance.

3. The minimum classifications listed in Table 3B are P1 and R9. 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 the surfaces are 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 in to account when selecting such products.

4. When using the oil-wet inclining platform 'R' classifications, consideration should also be given to the determination and use of volumetric displacement 'V' classifications. In some cases, a specifier may choose either a particular combination of R and V values, or a more severe R value alone. For example, either R10 + V4, or R11.