

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

TEST REPORT SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS AS 4586-2013

AS 4586-2013 Appendix A - Wet Pendulum Testing

Prepared For: National Flooring Distributors

Product Description: Space Micro Embossed, Grey, Vinyl, 200x108cm

Test Date: 01-08-2019



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

Testing Instrument Serial #: SK1105 (W1)

1x Space Mirco Embossed, Grey, Vinyl, Sample Size 200x108cm 1.

2. 3.

4.

(1 x samples tested in 5 x locations)

| Surface Condition: | Fine Textured | Cleaning: | Tested as received |
|---------------------------|-------------------------------------|-----------|--------------------|
| Fixed/ Unfixed: | Unfixed | Rz Mean: | n/a |
| Environmental Conditions: | Fine | Air Temp: | 16 Deg.C |
| Direction of Test: | As indicated on underside of sample | Slope: | n/a |

| AS 4586-2013 | | INTERPRETATION OF THE WET PENDULUM RESULTS | | | |
|--------------|----------|--|--------|--|--------|
| | | Classification | | Pendulum mean BPN Slider 96 (4S) rubber | |
| | Г | Р5 | | >54 | |
| | | P4 | | 45-54 | |
| | | P3 | | 35-44 | |
| | | P2 | | 25-34 | |
| | | P1 | | 12-24 | |
| | | PO | | <12 | |
| TEST RESULTS | | | | | |
| | Specimen | #1 Result: | 34 BPN | Slider condition (P400): | 83 BPN |

Т

| pecimen | #1 Result: | 34 BPN | Slider condition (P400): | 83 BPN |
|---------|------------|--------|-----------------------------|--------|
| | #2 Result: | 37 BPN | Slider condition (Lapping): | 58 BPN |
| | #3 Result: | 36 BPN | Temperature adjustment: | n/a |
| | #4 Result: | 34 BPN | | |
| | #5 Result: | 37 BPN | | |
| | | | | |

CLASSIFICATION

| CLASSIFICATION | PENDULUM MEAN BPN (4S rubber) |
|----------------|-------------------------------|
| Р3 | 36 |

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

^ 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 |

^NCC Code provides reference for ramps up to 1:8



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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.



Signatory: Mick Walton

Testing was carried out using the Wet Pendulum Test Method in accordance with Australian Standard AS 4586-2013 Appendix A



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

| | | INTERPRETING WET TEST RESULTS | | *TABI |
|---|---|---|----------------------------------|---|
| How to | interpret y | our wet test report | | |
| | Wet test res | sults offer six possible outcomes- classification 'P0', 'P1', 'P2', 'P3', 'P4' or 'P5'. | | CLASSIFICATIO |
| | The classific | ation 'P0' reflects a lesser slip resistant surface, while 'P5' classification reflects the grea | test slip resistance | CLASSIFICATIO |
| | classificatio | n. | | P5 |
| | | vo parts to this interpretation guide- Firstly the 'National Construction Code requiremer pplications' recommendations. | ts', and secondly 'Other | P4 P3 |
| | | bal Product Classification' test results refer additional #Note below. | | P2 |
| Step 1. | Note the te | st location described in the left side column of your report, and the corresponding test r sted in the far right side column) | esult 'P' classification | P1 P0 |
| Step 2. | | terpretation guide, identify the most appropriately related location description describe (FABLE 3B' (Part 2) . Note the 'P' classification listed to the right of this description. | ed in either 'TABLE 3A' | |
| Step 3. | | esult classification listed meets (or exceeds) the related 'P' classification from 'TABLE 3A' eeting the relevant requirement. | or 'TABLE 3B', the test | For test results that achie |
| #Note. | | Product Classification' test reports the 'TABLE 3A' or 'TABLE 3B' descriptions assist in ide or various applications. | ntifying the product's | While ISTS is solely an aud |
| * TAB | SLE 3A | Minimum wet pendulum test result classifications to meet | | Acid etching |
| | | National Construction Code requirements. | | • |
| | | National Construction Code requirements. | Classification | Coatings and sealers Surface texture Surface replacement |
| Stair Tre | eads and St | | Classification | Coatings and sealers Surface texture Surface replacement An internet search for |
| | | Location | Classification | Coatings and sealers Surface texture |
| 1. Stair | treads and a | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 | | Coatings and sealers Surface texture Surface replacement An internet search for |
| Stair Stair | treads and a treads and a | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) | P3 | Coatings and sealers Surface texture Surface replacement An internet search for |
| Stair Stair Nosings | treads and a treads and a for Stair Tr | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) | P3 | Coatings and sealers Surface texture Surface replacement An internet search for |
| Stair Stair Nosings Dry s | treads and a treads and a for Stair T i stair tread, a | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 | P3 P4 | Coatings and sealers Surface texture Surface replacement An internet search for |
| Stair Stair Nosings Dry s Wet | treads and a treads and a for Stair T stair tread, a stair tread, a | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing | P3 P4 P3 | Coatings and sealers Surface texture Surface replacement An internet search for recommends sourcing a no |
| Stair Stair Nosings Dry s Wet Ramps i | treads and a treads and a for Stair T i stair tread, a stair tread, a in Buildings | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing stair non-skid nosing strip and a stairway landing | P3 P4 P3 | Coatings and sealers Surface texture Surface replacement An internet search for " recommends sourcing a nu References *Table 3A- HB198:2014 "Gui Australia Limited 2014. |
| Stair Stair Stair Nosings Dry s Wet Ramps i Ram | treads and a treads and a s for Stair Tr stair tread, a stair tread, a in Buildings ps not steep | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing stair non-skid nosing strip and a stairway landing - Covered by NCC Volumes 1 - 2 | P3 P4 P3 P4 P3 P4 | Coatings and sealers Surface texture Surface replacement An internet search for ' recommends sourcing a nu References *Table 3A- HB198:2014 "Gui Australia Limited 2014. *Table 2- AS 4586-2013 "Slip |
| Stair Stair Stair Nosings Dry s Wet Ramps i Ram Ram Ram Ram | treads and a treads and a for Stair Tr stair tread, a stair tread, a in Buildings ps not steepe ps not steepe ps steeper th | Location airway Landings in Buildings - Covered by NCC Volumes 1 - 2 stairway landing (when dry) stairway landing (when wet) reads and Landings in Buildings - Covered by NCC Volumes 1 - 2 stair non-skid nosing strip and a stairway landing stair non-skid nosing strip and a stairway landing Covered by NCC Volumes 1 - 2 er than 1:14 (4.1 degrees) gradient (when dry) | P3 P4 P3 P4 P3 P3 | Coatings and sealers Surface texture Surface replacement An internet search for ' recommends sourcing a nu References *Table 3A- HB198:2014 "Gui Australia Limited 2014. |

| *TABLE 2 Classification of Pedestrian Surface Materials according to the AS 4586-2013 wet pendulum test | |
|--|--------------------|
| CLASSIFICATION | Pendulum* mean BPN |
| LEASSIFICATION | |

| Four S rubber (Slider 96) | TRL rubber (Slider 55) | |
|---------------------------|---|--|
| >54 | >44 | |
| 45-54 | 40-44 | |
| 35-44 | 35-39 | |
| 25-34 | 20-34 | |
| 12-24 | < 20 | |
| <12 | - | |
| | >54 45-54 35-44 25-34 12-24 | |

TREATMENT OPTIONS

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

dit 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. |
| Coatings and sealers | 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. |

'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

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

ip resistance classification of new pedestrian surface materials".

ne information provided is intended as a quide 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 appl | ications where the N | CC does not apply. |
|-------------------------|---|----------------------|--------------------|
| | Location | | Classification |
| External Paver | ents and Ramps | | |
| 1. External ramps in | cluding sloping driveways, footpaths etc. steeper than 1 in 14 (4.1^0) | | P5 |
| 2. External ramps in | cluding sloping driveways, footpaths, etc., under 1:14 (4.1 $^{ m 0}$), external | sales areas | P4 |
| (eg. markets), ext | ernal car park areas, external colonnades, walkways, pedestrian cros | sings, | |
| balconies, verand | as, carports, driveways, courtyards and roof decks | | |
| 3. Undercover car pa | arks | | P3 |
| Hotels, Offices, | Public Buildings, Schools and Kindergartens | | |
| 1. Entries and access | s areas including | Wet area | Р3 |
| hotels, offices, pu | blic buildings, schools, kindergartens, | Transitional area | P2 |
| internal lift lobbie | es and common areas of public buildings | Dry area | P1 (see Note 3) |
| 2. Toilet facilities in | offices, hotels and shopping centres | | Р3 |
| 3. Hotel apartment | pathrooms, ensuites and toilets | | P2 |
| 4. Hotel apartment | kitchens and laundries | | P2 |
| Loading Docks, | Commercial Kitchens, Cold Stores, Serving Areas | | |
| 1. Loading docks un | der cover and commercial kitchens | | P5 |
| 2. Serving areas beh | ind bars in public hotels and clubs, cold stores and freezers | | P4 |
| Supermarkets a | and Shopping Centres | | |
| 1. Fast food outlets, | buffet food servery areas, food courts and fast food dining areas in sl | hopping centres | Р3 |
| 2. Shop and superm | arket fresh fruit and vegetables area | | Р3 |
| 3. Shop entry areas | with external entrances | | Р3 |
| 4. Supermarket aisle | es (except fresh food areas) | | P1 (see Note 3) |
| 5. Other separate sh | ops inside shopping centres - wet | | Р3 |
| 6. Other separate sh | ops inside shopping centres - dry | | P1 (see Note 3) |
| Swimming Poo | s and Sporting Facilities | | |
| 1. Swimming pool ra | imps and stairs leading to water | | P5 |
| 2. Swimming pool su | urrounds and communal shower rooms | | P4 |
| 3. Communal chang | ing rooms | | Р3 |
| 4. Undercover conco | ourse areas of sports stadiums | | P3 |
| Hospitals and A | ged Care Facilities | | |
| | - nsuites in hospitals and aged care facilities | | P3 |
| 2. Wards and corride | 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 | | | |
|---|-----------------------------|--------------------------|--|
| Classification | 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 | |
| P2 | 25-34 | 20-34 | |
| P1 | 12-24 | < 20 | |
| P0 | <12 | <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. | |



TEST PRODUCT IMAGE

Product Description: Space Micro Embossed, Grey, Vinyl, 200x108cm Test Date: 01-08-2019



