Wet Slip Resistance Test Report for Pedestrian Surfaces

This Report has been prepared for: 3M Australia.

Contact: Farhad Fatahi.

Test Site Location: 3M Innovation Centre Ryde.

Test Date: 23/05/2014

Job Number: W705

Test conducted by: Adrian Silva

Standard Applied: AS 4586-2013, Appendix A- Table 2.

Rubber Slider Type: Four S (Slider 96)
And conditioned with grade P400 sandpaper, and then passing over 3M 261x Imperial Lapping film grade 3MIC as per Standard.

Rubber Slider Conditioning Swings-

Swing 1: 84 Swing 2: 84 Swing 3: 84.

Fixed or Unfixed Surface: fixed


Identification of area: Installed on the floor at the Lab.

Description and condition of Surface: Approx. 1 m length by 20 cm wide, tape with aggregate.

Topography of surface: Gritty surface.

Direction of test with respect to directionality of surface characteristics: Testing was conducted to reflect Pedestrian traffic, and trying to pick weak areas of the floor in terms of slip resistance.
Slopes: Nil

Cleaning for the purpose of testing: Water/rag.

Start Time: 17:20 pm

Maintenance cleaning carried out: Unknown.

Temperature on the day: 23˚ Celsius, 69% Humidity. Overcast.

Notes:

1. The areas tested were carried out onsite using a Wessex Pendulum Friction Tester (ID No.: SK1712, Calibration Certificate. No. R 5761, provided by Slip Check. Conditioned with Grade P400 paper).
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+ Table 1 in AS/NZS 4663 estimates the contribution of the floor surface only, to an occurrence of a slip under wet conditions (see attached guidelines).

Procedure:
Test were done observing and conducted as per AS:4663-2013 and guidelines of HB 197:1999. The area tested were carried out on site using a Wessex Pendulum Friction Tester, (ID No.SK1712)Each test was subjected to a minimum of five (5) swings per test, with the measurement results being recorded.

Calibration Certificate of Friction Pendulum Tester: No. 5761 (provided by Slip Check 19th September, 2013).
Samples tested: 3M™ Safety-walk Comformable Tape (Black and yellow).

<table>
<thead>
<tr>
<th>Sample Tested</th>
<th>Slip Resistance Results</th>
<th>Slope</th>
<th>Cleaning Type</th>
<th>Floor Type</th>
<th>Coating</th>
<th>British Pendulum Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Test area 1 Pic.1</td>
<td>77 77 78 77 77</td>
<td>NIL</td>
<td>NIL</td>
<td>Coated tape product</td>
<td>Anti-slip</td>
<td>77 BPN</td>
</tr>
<tr>
<td>2. Test Area 2 Pic.2</td>
<td>80 80 78 78 78</td>
<td>“ “</td>
<td>As Above</td>
<td>As Above</td>
<td>As Above</td>
<td>78 BPN</td>
</tr>
<tr>
<td>3. Test Area 3 Pic.3</td>
<td>81 79 78 78 78</td>
<td>“ “</td>
<td>As Above</td>
<td>As Above</td>
<td>As Above</td>
<td>78 BPN</td>
</tr>
<tr>
<td>4. Test Area 4 Pic.4</td>
<td>79 78 77 77 77</td>
<td>“ “</td>
<td>As Above</td>
<td>As Above</td>
<td>As Above</td>
<td>77 BPN</td>
</tr>
<tr>
<td>5. Test Area 5 Pic.5</td>
<td>80 80 78 78 78</td>
<td>“ “</td>
<td>As Above</td>
<td>As Above</td>
<td>As Above</td>
<td>78 BPN</td>
</tr>
</tbody>
</table>

Mean British Pendulum Number: 78 BPN

20% Standard Deviation of MBPN: 15 BPN

Notional Contribution of the floor surface to the RISK of SLIPPING when wet: VERY LOW
SLIP TEST FIRST

Pic 1

Pic 2

Pic 3

Pic 4

Pic 4.
Remarks:

Testing of 3M™ Safety-Walk Comformable Tape (Black):

The tested surfaces achieved a mean average of 78 BPN. Table 2 of AS 4586-2013; ‘Classification of Pedestrian Surface Materials According to the AS 4586 Wet Pendulum Test’, the surfaces achieve a P5 Classification.

The tape would be applicable in areas where the minimum requirements necessary are as per HB 197, ‘An Introductory Guide to the Slip Resistance of Pedestrian Surface Materials’, under Table 3, ‘Pedestrian Flooring Guide- Minimum Pendulum or Ramp Recommendations for Specific Locations’. The minimum requirement for these specific location call for a V Pendulum Classification, R 11 Ramp Classification. Then taking these classifications and cross referencing with Table 2, we see that 54 BPN or above is necessary.

*As per AS 4586-2013 , and AS 4663-2013 , Slip Resistant Value or SRV is taken to mean the Mean BPN value that has been tested and calculated in accordance with Appendix A whether on a level or sloped surface.