

Confidential Technical Report
47304



Registered Office:
Shawbury, Shrewsbury
Shropshire SY4 4NR
United Kingdom

T: +44 (0)1939 250383

F: +44 (0)1939 251118

E: info@rapra.net

W: www.rapra.net

**TESTING OF ELMdene SIMULATED – WOOD DECKING
INTERIM REPORT 1**

Elmdene
Ryton Lodge
Oxford Road
Coventry
Warwickshire
CV8 3EJ

For the attention of Mr Jerry Douglass

4.2 Slip Resistance of Millboard Decking

4.2.1 Pendulum verification.

TRRL Pendulum Test verification utilising Slider 96 (formerly Four S)

| | | DATA/READINGS | | | | | | | |
|-----------------------------------|--------------|---------------|------|----|----|----|----|----|--------|
| Preparation by 20 passes over PLF | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | MEDIAN |
| Pink lapping film | 67 | 67 | 66 | 66 | 66 | 66 | 65 | 65 | 66 |
| Float glass | 7 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Pink lapping film | Verification | | 64±5 | | | | | | |
| Float glass | Verification | | 5±5 | | | | | | |

4.2.2 Plank No.1 Single dry and wet determination across the plank at the sawn end.

TRRL Pendulum Test utilising Slider 96

| | | DATA/READINGS | | | | | | | | |
|-------------------------------|-------------------------|---------------|----|-----------|----|----|----|----|----|------|
| Direction | Preparation / condition | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Mean |
| A | P400 / DRY | 88 | 91 | 94 | 97 | 86 | 86 | 94 | 95 | 92 |
| A | Pink L.F / WET | 74 | 75 | 76 | 75 | 73 | 72 | 75 | 70 | 73 |
| MEAN FOUR S (P400) | | DRY | | 92 | | | | | | |
| MEAN FOUR S (Pink L F) | | WET | | 73 | | | | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|------|------|------|------|------|------|------|------|------|
| Rz Surface Roughness | 91.5 | 95.1 | 66.3 | 47.3 | 64.4 | 30.4 | 75.4 | 42.1 | 46.2 | 40.8 |
| | MEAN 60.0 | | | | | | | | | |

B. Slip Resistance

From the data tables presented above, a summarised result for the wet and the dry state of the Millboard decking can be stated as:

| | |
|-----|----|
| Dry | 81 |
| Wet | 65 |

In accordance with the Assessment of Floor Slip Resistance: The Slip Resistance Group Guidelines: Issue 3: 2005, this floor surface in the "ex-factory" condition would be classified as having a "low slip potential" under dry conditions and also a "low slip potential" under water wet conditions. The surface roughness (Rz) values obtained corroborate the pendulum values. It should be noted that the decking surface was highly textured, which aids the resistance to slipping and if the planking surfaces wear smooth there is likely to be a reduction in the slip resistance.