UKAS TESTING 1931

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Report No. 4RS-JB-034443-R32826

SLIP TESTING OF 'GRIPFAST PEDESTRIAN GRADE '.

Prepared for: *Mr. Paul Canning,*
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Issue Date: *19th September 2003*

Prepared by: *J.Bailey – Technologist*

Signature: .....

Certified by: *Dr. S P Hargreaves – Director*

Signature: .....

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1. Introduction

4-Rail Services Limited was requested by Mr. Paul Canning, Amey Rail to carry out a slip resistance assessment on a sample of 'Standard Pedestrian Gripfast', supplied by Polydeck Ltd.

A brief description of the floor tile sample, received on 18th September 2003 is given below:

SAMPLE REF	*DESCRIPTION*	*APPROX SIZE / mm*
034443/1	Gripfast Pedestrian Grade supplied by Polydeck Limited – black in colour	300 x 300

2. Test Methods

Slip resistance was measured in accordance with 4-Rail Services Limited Test Procedure 4R-M125 Issue 5, which is based on the guidelines recommended by the UK Slip Resistance Group in the booklet 'The Measurement of Floor Slip Resistance' Issue 1 - June 1996 and Issue 2 – June 2000.

Slip resistance was measured with a portable slip tester designed by the Transport Research Laboratory (TRL). Testing was carried out under both dry and wet conditions, using the standard Four S contact rubber as specified by the Rubber and Plastics Research Association.

3. Results

Slip Resistance measurements were made on the sample on 19th September 2003.

The sample was tested under the following environmental conditions:

- Air Temperature: 22.7 °C
- Tile Temperature 23.5 °C
- 42% Relative Humidity

Sample Number	*Direction of Test*	*Condition*	*Slip Resistance Values*	*Mean Slip Resistance Value*
034443/1	Along Principal Axis	Dry Wet	75, 76, 76, 75, 76, 72, 70, 70, 71, 71,	76 71
	90° Principal Axis	Dry Wet	*	*
	45° Principal Axis	Dry Wet	*	*

* slip testing was undertaken in only 1 direction due to the high slip resistance values obtained and the destructive effect on the 4S rubber slides.

4. Comments

LUL Engineering Standard E 3406 A5 states that flooring to public areas shall achieve a mean Slip Resistance Value of greater than 40 when tested under both wet and dry conditions.

The average slip resistance value achieved by the sample under wet test conditions was 71. Therefore the sample met the minimum slip resistance requirements of LUL Engineering Standard E 3406 A5.

The average slip resistance value achieved by the sample under dry test conditions was 76. Therefore the sample met the minimum slip resistance requirements of LUL Engineering Standard E 3406 A5.

Results are presented for final comment from Amey Rail and the ultimate client.


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