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TESTING OF C.I.D. MK3 T-MATting FOR SLIP RESISTANCE
USING BS 7976-2: 2002+A1: 2013

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Prepared for:

C.I.D Group
C.I.D House
Peckfield Business Park
Phoenix Avenue
Leeds
LS25 4DY

For the attention of:

Mr T Soulsby

Date:

12th December 2018

**TESTING OF C.I.D. MK3 T-MATTING FOR SLIP RESISTANCE
USING BS 7976-2: 2002+A1: 2013****SUMMARY**

Slip testing in accordance with BS 7972-2:2002 + A1: 2013 'Pendulum testers – Method of operation has been performed. Testing across the Mk3 T-Matting both wet and dry gives a pendulum test value (PTV) in the low slip potential range. Testing along the length of the Mk3 T-Matting using the softer soling type gives a low slip potential when tested dry, this falls to a moderate slip potential when tested wet. The harder soling type gives a moderate slip potential figure when tested using both wet and dry conditions.

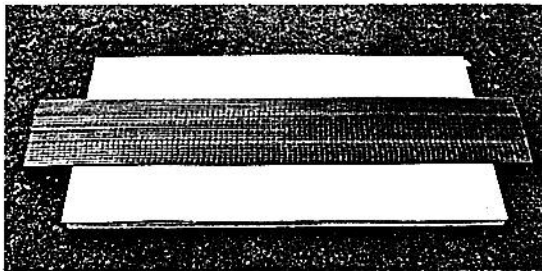
1 INTRODUCTION

Building Investigation and Testing Services (Surrey) Ltd (❖B.I.T.S.❖) have been requested by Mr T. Soulsby of C.I.D Group to test a sample of their Mk3 T-Matting for slip resistance in accordance with BS 7972-2: 2002 + A1: 2013.

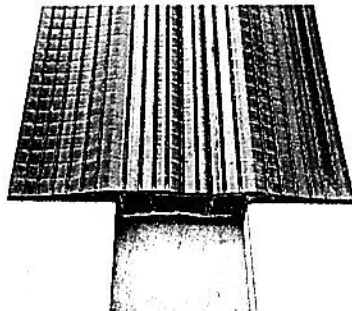
2 MATERIAL RECEIVED

Two C.I.D Group, Mk3 T-Matting samples were received on the 17th of October 2018. Each sample was approximately 1.5m in length, approximately 240mm in width, purple P.V.C. The top surface has a raised rib pattern. To the centre of the underside is an oblong section. Approximately 95mm in width and approximately 20mm in depth.

Photographs 1-2 showing the Mk3 T-Matting.



Photograph 1
Showing Mk3 T-Matting.

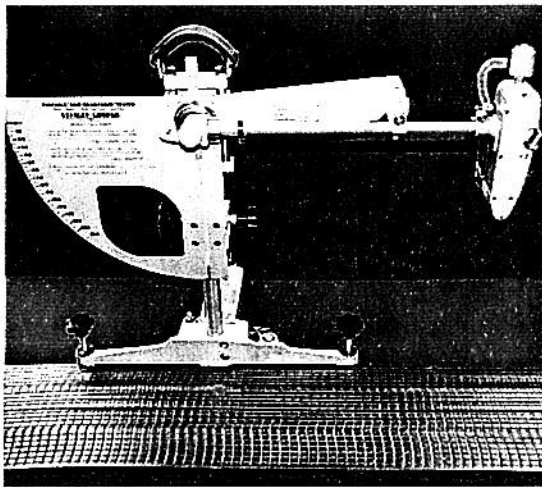


Photograph 2
Showing Mk3 T-Matting detail.

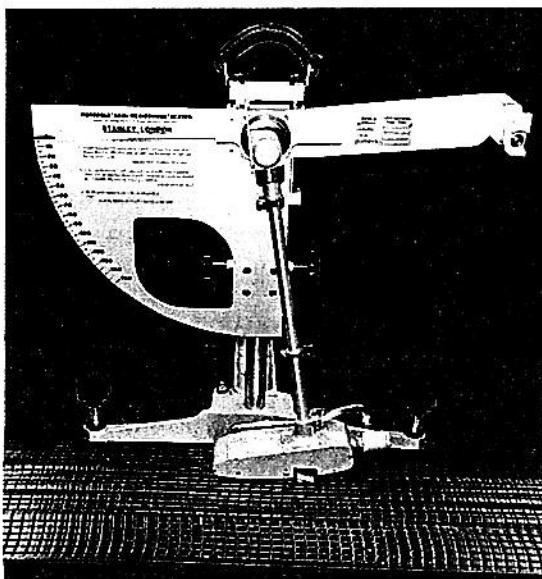
3 EXPERIMENTAL

3.1 – Slip testing has been performed in accordance with BS 7976-2: 2002 + A1: 2013, tests were performed using two test sliders in dry and wet conditions both along the length and across the width of the sample. A spring loaded 'foot' with a rubber slider is attached to a pendulum arm. The arm is raised and locked into a 'three o'clock' position. The arm is released and falls under its own weight, the rubber slider contacts the test surface over a length of 125mm. The energy absorbed is monitored, the pointer indicates the pendulum test value. This procedure is performed eight times for each slider, wet and dry at different positions on the Mk3 T-matting.

Photographs 3 & 4 showing test rig used for testing.



Photograph 3
Showing pendulum tester ready for test.



Photograph 4
Pendulum tester.

The following table is reproduced from the health and safety executive.

Slip Potential Classification

	Pendulum Test Value (PTV)
High slip potential	0-24
Moderate slip potential	25-35
Low slip potential	36+

4 RESULTS

The results are only valid for the samples tested, testing was performed on the 23rd and 24th of October 2018.

4.1 Slip testing in accordance with BS 7976-2: 2002 + A1: 2003.

4.1.1 Testing along the length of the Mk3 T-Matting mean results.

Slider 98 (Shoe soling)		Slider 55 (Tyre tread)	
Dry	Wet	Dry	Wet
31	25	87	27

4.1.2 Testing across the width of the Mk3 T-Matting mean results.

Slider 98 (Shoe soling)		Slider 55 (Tyre tread)	
Dry	Wet	Dry	Wet
56	43	92	39

5 CONCLUSION

Building Investigation and Testing Services (Surrey) Ltd (❖B.I.T.S.❖) have been requested by Mr T. Soulsby of C.I.D Group to carry out slip resistance testing to BS 7972-2: 2002 + A1: 2013.

Testing has shown the Mk 3 T-Matting is slip resistant, testing across the width with both types of slider material in wet and dry conditions gives pendulum test values in the low slip potential range. When tested along the length of the M3 T-Matting the classification drops to moderate slip potential when wet.

Checked & Authorised by R. Fryer
Mr R P FRYER
Building Consultant

Reported by C.D. Loraine
Mr C D Loraine
Test Engineer

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