



Sheffield
Hallam University

An extract from the determination of slip resistance characteristics tests of Evergrip GRP Anti-slip surfacing



evergrip

*composite products
for safe access*

Centre for Infrastructure Management

Sheffield Hallam University
City Campus
Howard Street
Sheffield
S1 1WB
UNITED KINGDOM
Tel: +44 (0)114 225 3339/3500
Fax: +44 (0)114 225 4546



Materials Analysis
& Research Services
Centre of Industrial
Collaboration

2.4. Test C - Slip resistance

In accordance with the test specifications set out by Network Rail, for whom these tests were conducted, the finishing of the panel shall have a minimum slip resistance value of 45 both 'in the dry' and 'in the wet' for 'Four-S' grade rubber when measured in accordance with the pendulum floor friction test as developed by CERAM.

This test (CIM 244/r0 Sept 2009) was conducted in the laboratory at Sheffield Hallam University by South Yorkshire Laboratory. The slip resistance tests were made on a GRP platform surface product type incorporating grade 16 aluminium oxide grit as shown in Fig. 1. Fig. 2 presents the test set-up.



Fig. 1 Test C - Slip resistance - surface type – Grit Grade 16 (Industrial/Coarse)

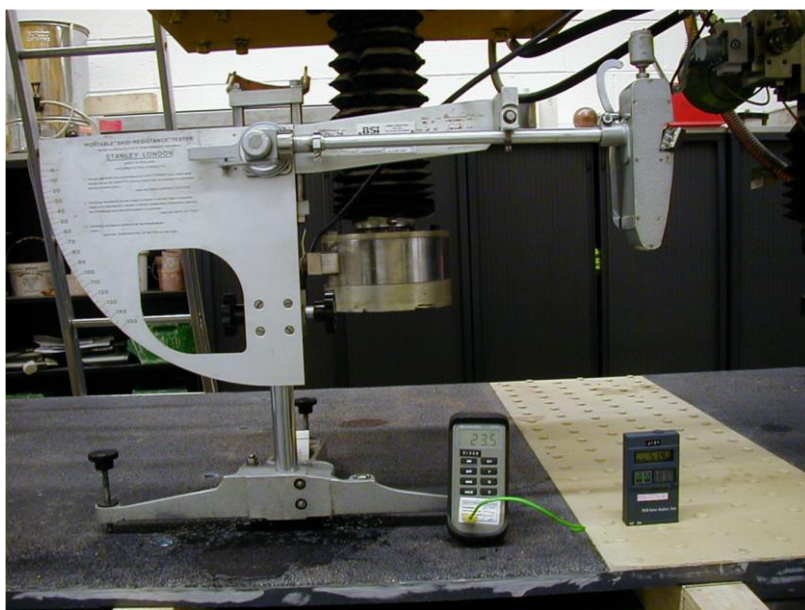


Fig. 2 Set-up for test C - Slip resistance

The surface roughness and slip resistance results are shown in Tables 13 and 14.

Table 13 - Surface roughness

Type	Potential to slip value [Rz µm]			Measured surface Roughness average [Rz µm]	Remark
	High	Moderate	Low		
Grade 16	< 10	10-20	20+	49	Within limit

Table 14 Test C – Slip resistance values (SRV)

Type	Surface Condition	Angle [degrees]	SRV Result	SRV Mean	Min. SRV Limit	Remark
Grade 16	Dry	0	81	81	45	Within limit
	Dry	45	84		45	Within limit
	Dry	90	79		45	Within limit
	Wet	0	76	73	45	Within limit
	Wet	45	74		45	Within limit
	Wet	90	70		45	Within limit

Conclusion

The measured slip resistance of the surface is within the specified limits.