

INTRODUCTION

A sample of Pasbead flooring was received in our laboratory on 01 February 2024. We were instructed to undertake testing in order to establish slip resistance characteristics of the sample.

SAMPLES RECEIVED

A summary of the samples received is given below:

Sandberg Reference	Sample reference
FE0101	Pasbead flooring

TEST METHOD AND RESULTS

The sample was tested in accordance with BS EN 16165:2021 using the TRL Portable skid resistance tester (pendulum tester). Tests were carried out in dry and wet conditions using the rubber slider No. 96. Slip testing was carried out in three directions 0°, 90° and 45°.

Surface roughness measurements were also carried out using a Surtronic Duo Roughness meter where the slip resistance measurements were being made. The measurements were carried out in accordance with The Assessment of Floor Slip Resistance, guidelines recommended by the UK Slip Resistance Group, Issue 5, 2016.

The test results are given in Table 1.

DISCUSSION

The TRL pendulum tester has a range of readings from 0 to 150, high values indicating good slip resistance. Guidance on the interpretation of results using the Slider 96 is suggested by the UK Slip Resistance Group¹ as follows:

Potential For Slip	Pendulum Test Value
High	0 to 24
Moderate	25 to 35
Low	36 +

The surface roughness measurements are a guide to slip resistance particularly in borderline regions. It is recognised that increased roughness of the floor surface can give an improvement in slip resistance in wet conditions.

Surfaces contaminated with pure water generally require a surface roughness of at least 10µm R_z to provide a moderate level of slip resistance and at least 20µmR_z to indicate low slip potential: more viscous contaminants require higher surface roughness².

The test results are given in Table 1 and are summarised below:

Sandberg Reference	Sample reference	Surface roughness, R _z , µm	Pendulum Test Value, min.	
			Dry	Wet
FE0101	Pasbead flooring*	ND**	54	39

*Sample was not flat as shown in Appendix A/2 to a maximum deviation of 2mm.

**Not determined, too rough

REMARKS

In dry and wet conditions, the sample tested indicated a low potential for slip.

The results reported here relate to the surfaces as tested. It should be noted however that the slip resistance of surfaces in service can be changed by various factors such as abrasion, polishing and contamination. Overall assessment of the potential for slip should take into account conditions of use and the environment, in addition to test results.

This concludes the requested programme of testing. Please do not hesitate to contact us if we can be of any further assistance.

SLIP RESISTANCE TESTING USING THE PENDULUM TESTER

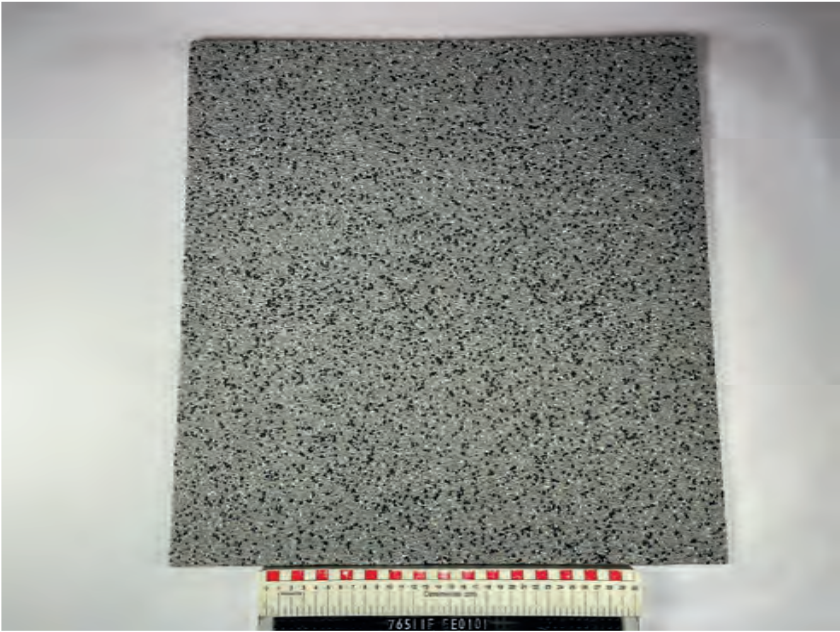
BS EN 16165:2021 Annex C
& The Assessment of Floor Slip Resistance - The UK slip resistance Guidelines Issue 5 - 2016

Project:	Poly Advisory Slip Test		
Rubber slider material:	Slider 96		
Date of test	2/2/24	Operator	BP

Sandberg reference	Client reference	Surfacing Material under test	Surface roughness R _z , µm	Ambient temp. °C	Orientation (relative to traffic*)	Pendulum test value PTV ₉₆	
						Dry	Wet
FE0101	-	Pasbean Flooring**	ND	20	0° *	54	39
					90°	56	39
					45°	56	39

**Sample was not flat as shown in Appendix A/2 to a maximum deviation of 2mm.

NDI - Not determined - Isotropic
ND- Not determined - Too rough



PASBead flooring sample

for Sandberg LLP

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