

LABORATORY PERFORMANCE REPORT

In accordance with

BS EN 1177:2018 - Determination of Critical Fall Height

Sample Reference PAG 75mm EPDM Rubber Pad

Report Number 18984/1154

Report Status Final

Issue Date 30/08/2018

Client PAG Flooring Systems Ltd **Bahnhofstrasse 26** D-38176 Wendeburg **Germany**

FOREWORD

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1.0 INTRODUCTION

We refer to the sample of playground surfacing delivered to our Laboratory. The client requested testing to be carried out in accordance with the requirements of BS EN 1177:2018 - Determination of Critical Fall Height.

C. Mehose

Prepared Craig Melrose

By Laboratory Co-ordinator

30/08/2018

Checked Sean Ramsay

By Laboratory Director

30/08/2018

TEST DETAILS							
System Name	PAG 75mm EPDM Rubber Pad						
Test Condition	Dry						
Surface Temperature (°C)	23.6 °C						
Air Temperature (°C)	22.0 °C						
Relative Humidity (%)	44 %						
Fixing Method	Self Weighted						
Substrate	Concrete						
Shockpad type	EPDM Rubber Pad						
Total Depth (mm)	75 mm						
Infill Type	n/a						
Infill moisture content at test (%)	n/a						



2.0 TEST DETAILS

- 2.1 The test specimen was prepared in accordance with the manufacturer's instructions.
- 2.2 The specimens were tested in the conditions and temperatures described in BS EN 1177: 2008 to the prefabricated tile method.

3.0 TESTING

3.1 Determination of Critical Fall Height – BS EN 1177: 2008.

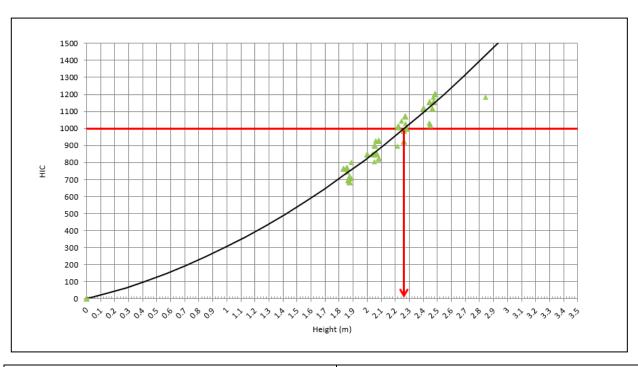
4.0 TEST RESULTS

4.1 Detailed test results are given overleaf in tabular format.



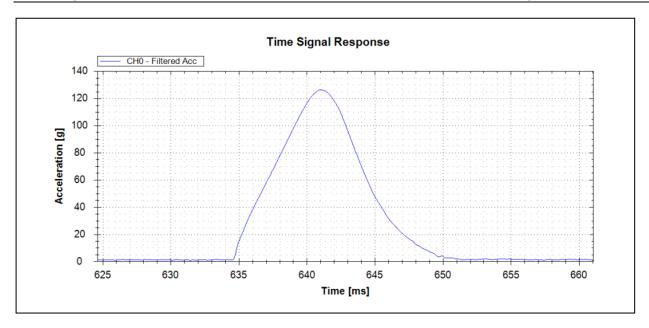
3.0 HIC (CRITICAL FALL HEIGHT) TEST RESULTS

	Drop Test 1			Drop Test 2			Drop Test 3		
Test Results	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC
	2.4	14	1120	2.485	14	1202	2.443	14	1153
	2.225	16	1009	2.271	14	1071	2.216	14	1006
	2.000	15	847	2.085	15	928	2.054	14	899
	1.834	16	765	1.855	15	768	1.858	15	767
Test Results	Drop Test 4			Drop Test 5			Drop Test 6		
	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC
	2.463	15	1115	2,452	15	1017	2.473	15	1153
	2.283	13	998	2.263	16	923	2.263	15	988
	2.066	15	851	2.085	16	822	2.047	15	848
	1.866	16	694	1.875	16	683	1.877	15	716
Test Results	Drop Test 7			Drop Test 8			Drop Test 9		
	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC	Drop Height (m)	T ₂ -T ₁	HIC
	2.846	15	1183	2.474	14	1185	2.444	15	1031
	2.247	14	1044	2.274	15	1030	2.217	15	896
	2.063	16	928	2.039	16	851	2.052	15	807
	1.889	14	803	1.858	15	746	1.886	16	707

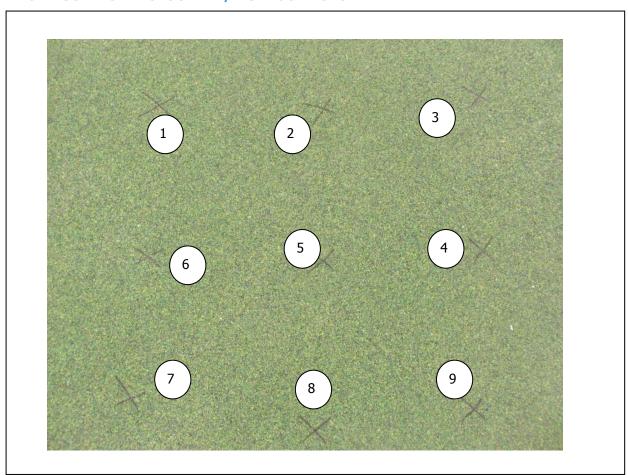


Calculated Critical Fall Height Value 2.2 m





4.0 SURFACE PHOTOGRAPH/TEST LOCATIONS





5.0 LAYER PHOTOGRAPH



End of Report