

LABORATORY PERFORMANCE REPORT

In accordance with

BS EN 1177:2018 - Method 1* - Determination of Impact Attenuation

Sample Reference Winner Velour Summer Green + Trocellen 40mm

Report Number 19578/4082

Report Status Final

Issue Date 12/06/2019

Client Playrite

Wellington Mills Liversedge **West Yorkshire WF15 7FH**

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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 Impact Attenuation.

Prepared By Craig Melrose

Laboratory Co-ordinator 12/06/2019

Checked By Sean Ramsay

Laboratory Director

12/06/2019

TEST DETAILS					
System Name	Winner Velour Summer Green + Trocellen 40mm				
Test Condition	Dry				
Surface Temperature (°C)	23.5 °C				
Air Temperature (°C)	22.0 °C				
Relative Humidity (%)	42 %				
Infill Rates (kg/m²)	12 Kg/m²				
Fixing Method	Self Weighted				
Test Sample Dimension	1.0m x 1.0m				
Substrate	Concrete				
Shockpad	2x Trocellen 3020 XC				

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: 2018* to Method 1 for surfacing intended to be manufactured on site.



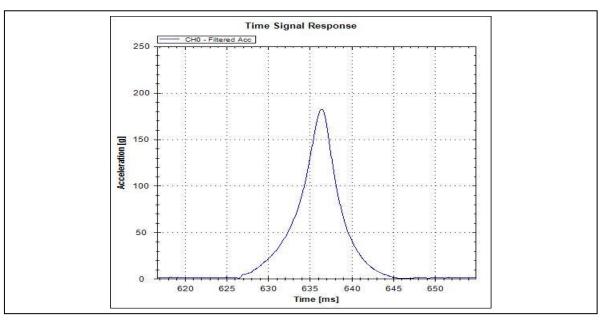
The results contained within this report apply to the sample provided and test conditions detailed. Whilst the methods described in BS EN 1177:2018 can be used to assess the impact attenuation performance of surfaces, attention of users is drawn that the behaviour of some materials can be highly variable and dependent on prevailing test conditions and that test results will likely vary over time or with climatic conditions.

- 3.0 TESTING
- 3.1 Determination of Impact Attenuation BS EN 1177: 2018*.
- 4.0 TEST RESULTS
- 4.1 Detailed test results are given overleaf in tabular format.

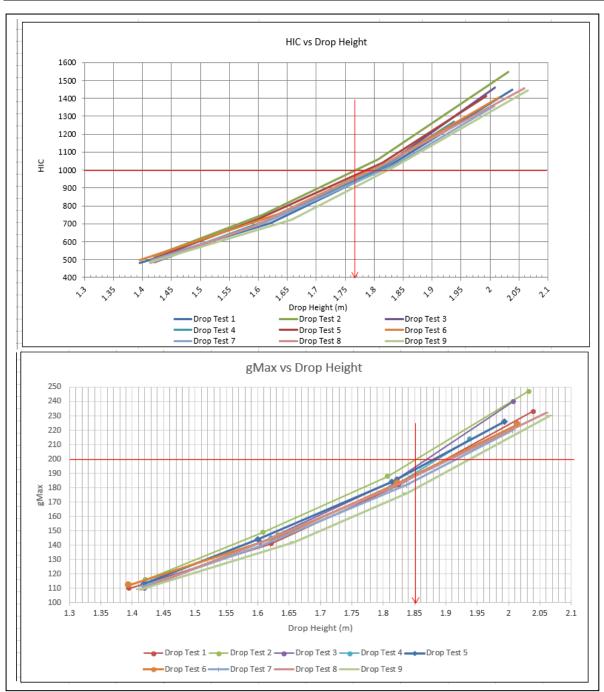


5.0 HIC (CRITICAL FALL HEIGHT) TEST RESULTS

Drop Test 1		Drop Test 2			Drop Test 3			
Drop Height (m)	HIC	gMAX	Drop Height (m)	HIC	gMAX	Drop Height (m)	HIC	gMAX
1.395	480	110	1.421	519	116	1.420	485	110
1.621	702	141	1.608	751	149	1.604	701	142
1.825	1020	182	1.807	1061	188	1.822	1031	186
2.039	1450	233	2.032	1547	247	2.008	1460	240
Drop Test 4			Drop Test 5			Drop Test 6		
Drop Height (m)	HIC	gMAX	Drop Height (m)	HIC	gMAX	Drop Height (m)	HIC	gMAX
1.432	503	113	1.418	506	113	1.395	497	112
1.622	728	145	1.600	725	144	1.635	754	146
1.812	1007	180	1.814	1040	184	1.823	1045	183
1.938	1269	214	1.993	1413	226	2.015	1405	224
Drop Test 7		Drop Test 8			Drop Test 9			
Drop Height (m)	HIC	gMAX	Drop Height (m)	HIC	gMAX	Drop Height (m)	HIC	gMAX
1.416	495	111	1.414	481	109	1.412	485	109
1.603	696	139	1.590	683	139	1.658	724	142
1.837	1030	182	1.808	1018	179	1.838	1024	176
2.007	1357	220	2.059	1455	232	2.065	1446	230



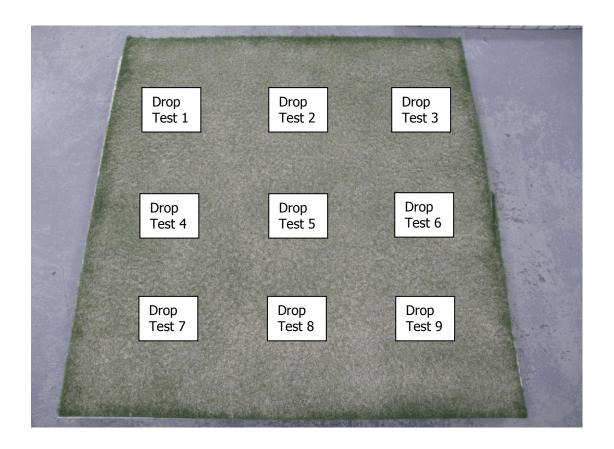




Calculated Critical Fall Height Value uncertainty of ±7 %	1.76 m
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6.0 SURFACE PHOTOGRAPH/TEST LOCATIONS





End of Report