



Surface Performance Ltd  
Unit 16 Vicarage Farm  
Sunbury On Thames  
London  
TW16 6DW  
  
0208 2465562  
info@surfaceperformance.com  
www.surfaceperformance.com

## TEST REPORT SP 2626-B1

### DETERMINATION OF CRITICAL FALL HEIGHT (HIC) PROPERTIES TO EN1177:2018

#### Easigrass Play 38mm + Easigrass Play Fun Tested on dynamic stone

For:

**Easigrass Ltd**

- *This report has been prepared by Surface Performance Ltd with all reasonable care, skill and diligence within the terms of the contract with the client.*
- *This report is confidential to the client and Surface Performance Ltd accept no responsibility towards any third parties to whom this report is made available to. Any such party relies upon this report at their own risk.*
- *This report shall not be used for contractual purposes unless signed by the Laboratory Manager*

PREPARED BY	SIGNATURE	ISSUE DATE	REPORT NUMBER
Patrick Searing (Laboratory Manager)		27.01.2021	SP 2626-B1



Surface Performance Ltd  
Unit 16 Vicarage Farm  
Sunbury On Thames  
London  
TW16 6DW  
  
0208 2465562  
info@surfaceperformance.com  
www.surfaceperformance.com

## 1.0 CONTENTS

Approval Sheet & Preface	Page 1
Contents & Summary of Testing	Page 2
Introduction of Examination & Testing	Page 3
Test Results	Page 4
Test Images	Page 5
Appendix	Page 7 - 9

## 2.0 SUMMARY OF TESTING (Laboratory Tests)

To be read in conjunction with this report

2.1 Determination of Critical Fall Height (HIC) in accordance with EN1177:2018.





**Surface Performance Ltd**  
Unit 16 Vicarage Farm  
Sunbury On Thames  
London  
TW16 6DW  
  
0208 2465562  
info@surfaceperformance.com  
www.surfaceperformance.com

### **3.0 INTRODUCTION**

Surface Performance Ltd carried out testing of the determination of the critical fall height (HIC) to a sample of Easigrass Play Fun surfacing received from the client Easigrass Ltd.

The 1.0m x 1.0m sample was received at the laboratory on Thursday 21st January 2021.

The sample was identified with Surface Performance Ltd as SP 2626.

The samples were prepared and conditioned for 24 hours prior to all testing in accordance with ISO 291 Class 2 (non tropical countries).

The sample was tested on a dynamic stone base within the laboratory.

This test report only refers to the sample stated on Page 1.

**The determination of the HIC was conducted as described in EN 1177:2018 Method 1 - Determination of Critical Fall Height Clause 6.2.4.2.**



**4.0 TEST RESULTS**

Nine drop tests each from 4 increasing drop heights were conducted across different test positions on the test specimen (see location plan).

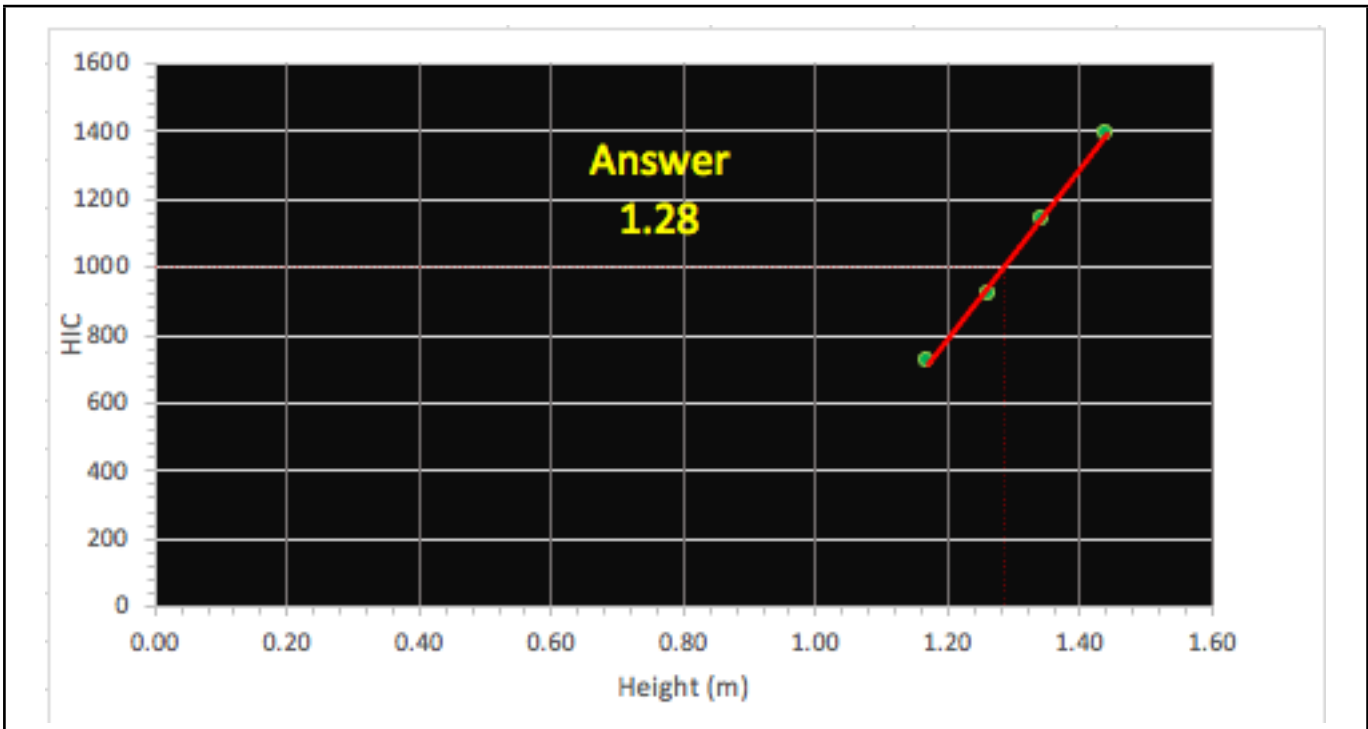
**4.1 Easigrass Play Fun - Stone**

<b>Surface Temp °C</b>	23.1	<b>Air Temp °C</b>	23.1
<b>Test Date</b>	22.01.2021	<b>Measured Shockpad Thickness</b>	20 mm
<b>Location</b>	<b>Location CFH (m)</b>	<b>Surface CFH (m)</b>	
1	1.37	<b>1.28</b>	
2	1.31		
3	1.37		
4	1.36		
5	1.28		
6	1.31		
7	1.50		
8	1.44		
9	1.39		

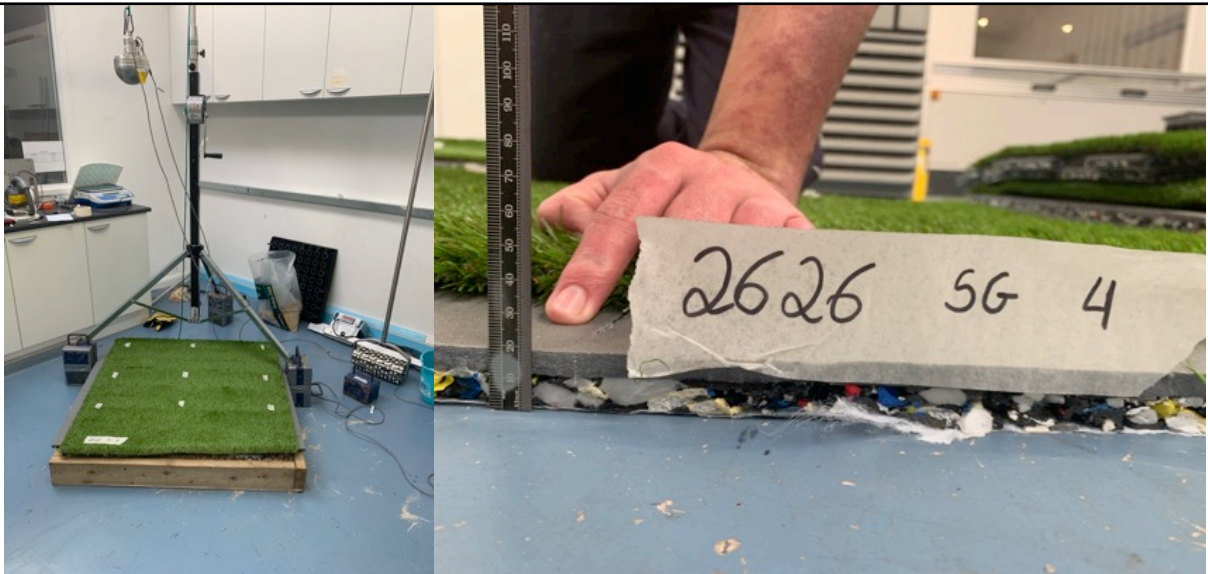
**4.2 LOCATION PLAN**



### 5.0 TEST IMAGES



HIC vs DROP HEIGHT CURVE



Report Number: SP2626-B1

Project Reference: Easigrass Play Fun - Stone



**Surface Performance Ltd**  
Unit 16 Vicarage Farm  
Sunbury On Thames  
London  
TW16 6DW  
  
0208 2465562  
info@surfaceperformance.com  
www.surfaceperformance.com

**END OF TEST REPORT**





**Surface Performance Ltd**  
Unit 16 Vicarage Farm  
Sunbury On Thames  
London  
TW16 6DW

0208 2465562  
info@surfaceperformance.com  
www.surfaceperformance.com

**APPENDIX  
A1 - Location 1**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.18	701	<b>1.37</b>
2	1.29	949	
3	1.49	1114	
4	1.58	1295	

**A2 - Location 2**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.19	849	<b>1.31</b>
2	1.24	935	
3	1.38	1099	
4	1.54	1237	

**A3 - Location 3**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.22	706	<b>1.37</b>
2	1.31	871	
3	1.39	1054	
4	1.48	1207	





**Surface Performance Ltd**  
Unit 16 Vicarage Farm  
Sunbury On Thames  
London  
TW16 6DW

0208 2465562  
info@surfaceperformance.com  
www.surfaceperformance.com

**A4 - Location 4**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.25	703	<b>1.36</b>
2	1.31	942	
3	1.38	1086	
4	1.50	1260	

**A5 - Location 5**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.17	725	<b>1.28</b>
2	1.26	922	
3	1.34	1143	
4	1.44	1391	

**A6 - Location 6**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.23	710	<b>1.31</b>
2	1.28	891	
3	1.34	1143	
4	1.41	1290	







**Surface Performance Ltd**  
Unit 16 Vicarage Farm  
Sunbury On Thames  
London  
TW16 6DW

0208 2465562  
info@surfaceperformance.com  
www.surfaceperformance.com

**A7 - Location 7**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.28	743	<b>1.50</b>
2	1.43	904	
3	1.53	1056	
4	1.67	1201	

**A8 - Location 8**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.25	734	<b>1.44</b>
2	1.41	874	
3	1.48	1073	
4	1.59	1257	

**A9 - Location 9**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	1.30	730	<b>1.39</b>
2	1.36	914	
3	1.41	1091	
4	1.46	1230	

