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## TEST REPORT SP 2626-A1

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

#### Easigrass Play 38mm + Easigrass Play Fun Tested on concrete

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-A1



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## 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.





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### 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 concrete 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.**





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**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).

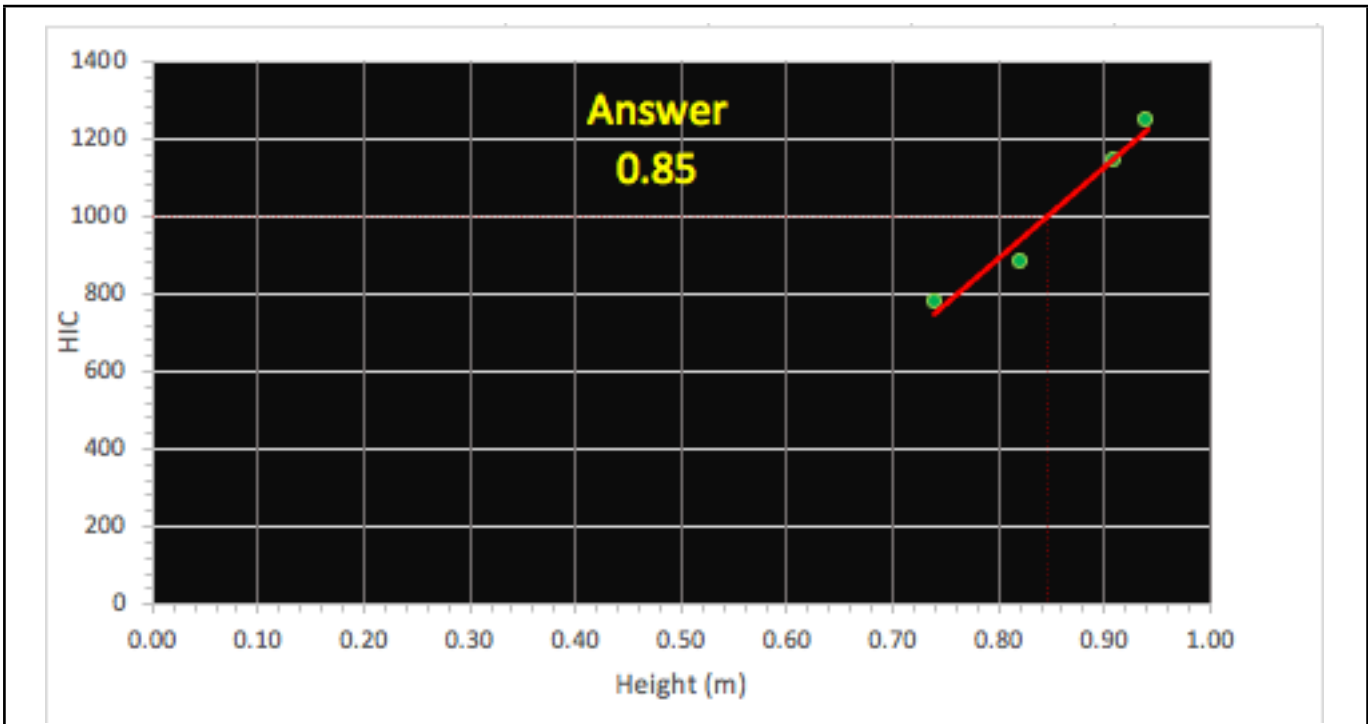
**4.1 Easigrass Play Fun - Concrete**

Surface Temp °C	23.1	Air Temp °C	23.1
Test Date	22.01.2021	Measured Shockpad Thickness	20 mm
Location	Location CFH (m)	Surface CFH (m)	
1	0.85	<b>0.85</b>	
2	0.97		
3	0.96		
4	0.99		
5	0.97		
6	0.99		
7	0.96		
8	0.98		
9	0.96		

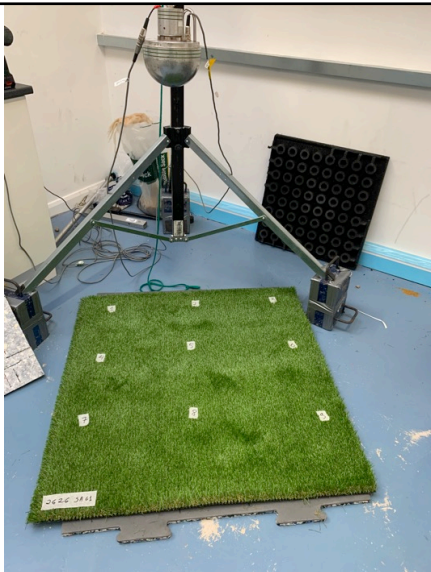
**4.2 LOCATION PLAN**



### 5.0 TEST IMAGES



HIC vs DROP HEIGHT CURVE



**Report Number:** SP2626-A1

**Project Reference:** Easigrass Play Fun - Concrete



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**END OF TEST REPORT**



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**APPENDIX  
A1 - Location 1**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.74	782	<b>0.85</b>
2	0.82	885	
3	0.91	1147	
4	0.94	1250	

**A2 - Location 2**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.92	724	<b>0.97</b>
2	0.96	882	
3	0.98	1068	
4	1.01	1218	

**A3 - Location 3**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.92	781	<b>0.96</b>
2	0.95	852	
3	0.98	1130	
4	1.00	1299	



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**A4 - Location 4**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.92	753	<b>0.99</b>
2	0.97	928	
3	1.02	1128	
4	1.06	1287	

**A5 - Location 5**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.91	770	<b>0.97</b>
2	0.94	870	
3	1.00	1139	
4	1.03	1235	

**A6 - Location 6**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.92	778	<b>0.99</b>
2	0.97	868	
3	1.02	1108	
4	1.06	1292	







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**A7 - Location 7**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.92	787	<b>0.96</b>
2	0.95	867	
3	0.98	1094	
4	1.00	1295	

**A8 - Location 8**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.90	719	<b>0.98</b>
2	0.94	913	
3	1.01	1105	
4	1.06	1206	

**A9 - Location 9**

Test Position	Fall Height (m)	Result (HIC)	CFH (m)
1	0.91	730	<b>0.96</b>
2	0.95	950	
3	0.98	1050	
4	1.01	1229	

