



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-B2

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

Easigrass Play 38mm + Easigrass Play Max 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-B2 |





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 Max 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.





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

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

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).

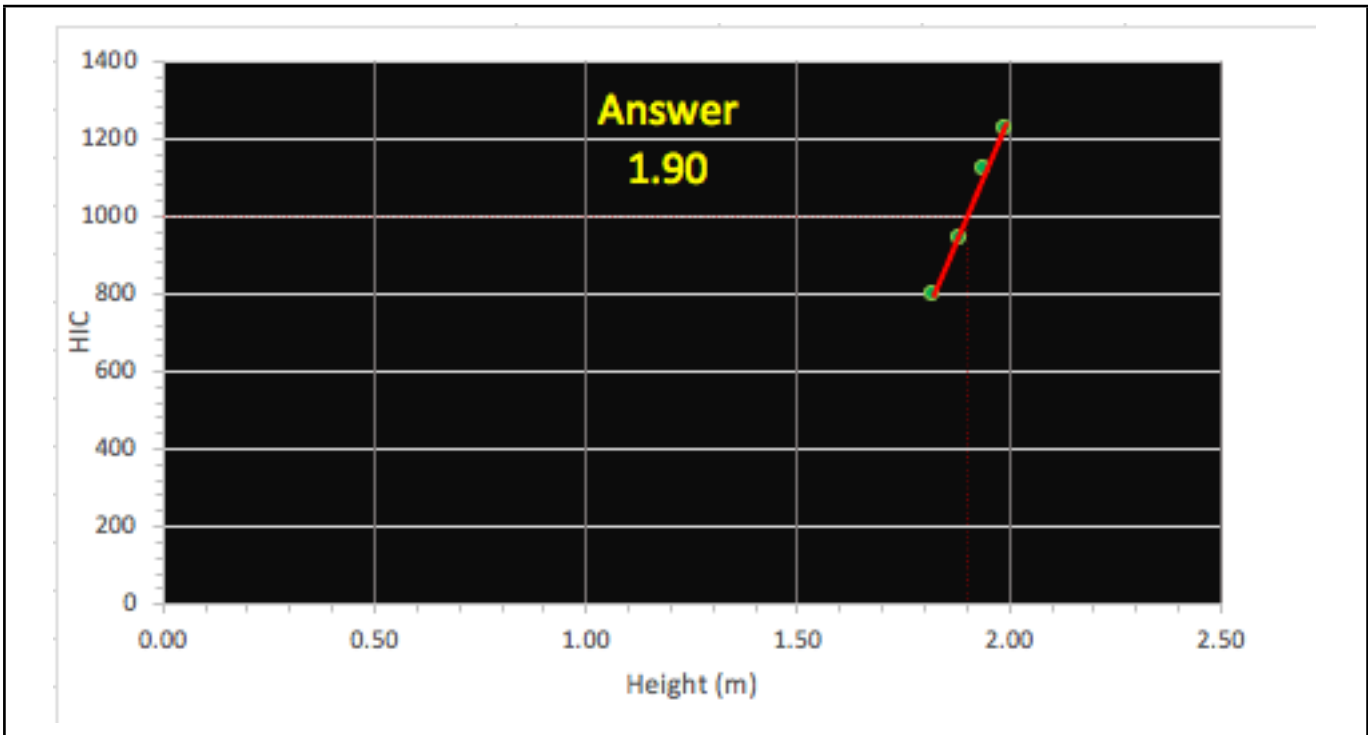
4.1 Easigrass Play Max - Stone

| | | | |
|-----------------|------------------|-----------------------------|-------|
| Surface Temp °C | 23.1 | Air Temp °C | 23.1 |
| Test Date | 22.01.2021 | Measured Shockpad Thickness | 40 mm |
| Location | Location CFH (m) | Surface CFH (m) | |
| 1 | 1.96 | 1.90 | |
| 2 | 1.96 | | |
| 3 | 1.93 | | |
| 4 | 2.02 | | |
| 5 | 1.90 | | |
| 6 | 1.97 | | |
| 7 | 2.00 | | |
| 8 | 2.00 | | |
| 9 | 1.96 | | |

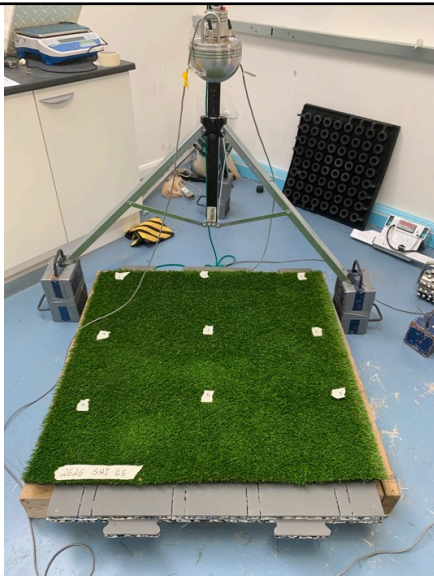
4.2 LOCATION PLAN



5.0 TEST IMAGES



HIC vs DROP HEIGHT CURVE



Report Number: SP2626-B2

Project Reference: Easigrass Play Max - 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 | 1.86 | 772 | 1.96 |
| 2 | 1.90 | 947 | |
| 3 | 1.99 | 1100 | |
| 4 | 2.14 | 1299 | |

A2 - Location 2

| Test Position | Fall Height (m) | Result (HIC) | CFH (m) |
|---------------|-----------------|--------------|-------------|
| 1 | 1.84 | 724 | 1.96 |
| 2 | 1.92 | 911 | |
| 3 | 2.00 | 1062 | |
| 4 | 2.07 | 1252 | |

A3 - Location 3

| Test Position | Fall Height (m) | Result (HIC) | CFH (m) |
|---------------|-----------------|--------------|-------------|
| 1 | 1.84 | 753 | 1.93 |
| 2 | 1.88 | 866 | |
| 3 | 1.93 | 1065 | |
| 4 | 2.03 | 1203 | |





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 | 1.84 | 705 | 2.02 |
| 2 | 1.93 | 891 | |
| 3 | 2.05 | 1123 | |
| 4 | 2.19 | 1206 | |

A5 - Location 5

| Test Position | Fall Height (m) | Result (HIC) | CFH (m) |
|---------------|-----------------|--------------|-------------|
| 1 | 1.82 | 799 | 1.90 |
| 2 | 1.88 | 944 | |
| 3 | 1.94 | 1124 | |
| 4 | 1.99 | 1228 | |

A6 - Location 6

| Test Position | Fall Height (m) | Result (HIC) | CFH (m) |
|---------------|-----------------|--------------|-------------|
| 1 | 1.84 | 743 | 1.97 |
| 2 | 1.89 | 940 | |
| 3 | 2.00 | 1099 | |
| 4 | 2.16 | 1207 | |





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 | 1.82 | 712 | 2.00 |
| 2 | 1.95 | 899 | |
| 3 | 2.04 | 1128 | |
| 4 | 2.16 | 1234 | |

A8 - Location 8

| Test Position | Fall Height (m) | Result (HIC) | CFH (m) |
|---------------|-----------------|--------------|-------------|
| 1 | 1.83 | 711 | 2.00 |
| 2 | 1.96 | 889 | |
| 3 | 2.06 | 1145 | |
| 4 | 2.13 | 1244 | |

A9 - Location 9

| Test Position | Fall Height (m) | Result (HIC) | CFH (m) |
|---------------|-----------------|--------------|-------------|
| 1 | 1.81 | 797 | 1.96 |
| 2 | 1.95 | 939 | |
| 3 | 2.07 | 1136 | |
| 4 | 2.12 | 1296 | |

