DUBLIN B6 Swords Enterprise Park, Swords, Dublin, K67YX37
W: www.afec.ie E : admin@afec.ie P : 01 6642836

To:	South Dublin County Council Planning Department
Address:	County Hall Tallaght, Dublin 24, D24 A3XC
Date:	8th May 2023
Reg Ref:	SD22A/0404
Subject:	PRIOR TO COMMENCEMENT DETAILS

Dear Sir/Madam,

With regard to your Grant of Permission for the proposed development at Templeogue College Community Residence, Templeogue College, Templeville Road, Dublin 6W, D6WNW94 (reference; SD22A/0404), on behalf of our client please see below details requested prior to commencement:

Condition No. 3

Prior to commencement of Development, a detailed play strategy using Nature-based Solutions for the subject site to be submitted and agreed in writing with the Local Planning Authority. Such details shall comprise:

(i) A specification of all play equipment to be installed including provision for the children with disabilities and special sensory needs;

(ii) A specification of the surface treatment within the play areas; and arrangements for ensuring the safety and security of children using the play areas.

All play equipment and ancillaries shall conform to European Standards EN 1176-1-11 and EN 1177 Playground equipment and surfacing, and to BS/EN standards 2017/18 for Playground Installations for HIC (Head Injury Criterion) and CFH (Critical Fall Height).

Please see drawing; *22041-AFEC-P1-ZZ-DR-A-2002* outlining play equipment & surface specifications along with relevant EN certificates enclosed under Appendix A for your reference. Note the specific requirements for play on this site are in line with DOE guidance and recommendations for special education facilities specifically.

I trust that all of the above is in order and look forward to your confirmation of same.

Should you have any further queries please do not hesitate to contact us at 01-6642836 or admin@afec.ie.

Kind Regards,

Mark Hennessy,
Project Architect,
AFEC International

Appendix A

Product Service

CERTIFICATE

Z2 053696 2187 Rev. 00

Holder of Certificate: **KOMPAN A/S**
C.F. Tietgens Boulevard 32C
5220 Odense SØ
DENMARK

Certification Mark:

Product: **Playground equipment**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 713127108-22

Valid until: 2023-08-16

Date, 2018-08-17

(Michael Weber)

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Product Service

CERTIFICATE

Z2 053696 2187 Rev. 00

Model(s):

PCM000110, PCM000210, PCM000310, PCM000410, PCM000510, PCM000608, PCM000708, PCM000808, PCM000908, PCM001008, PCM001108, PCM001208, PCM001308, PCM001408, PCM001508, PCM701, PCM702, PCM703, PCM704, PCM801, PCM802, PCM803, PCM002900, PCM804

Playground combination system based on the following parameters.
Steel posts are pre-galvanized and powder coated: Ø101 x 2 mm.
Wood posts of impregnated pine: Ø100 mm.
Floors and platforms: 10 mm HPL or injection moulded PP with aluminum support frame.
Side panels and roofs: 19 mm HDPE.
Climbing net: 16 mm PP.
Guardrails and pipe ladders: Ø38 x 2 mm.
Crossbar for net: Ø48 x 4 mm.

PCM701, PCM702, PCM703, PCM704:
Items, consist of couches with a moveable head side, benches with or without roof in different combinations.
PCM801, PCM802, PCM803:
High bars in single, double and three areas in different heights.

Tested according to:

DIN EN 1176-1:2017
EN 1176-1:2017

Production Facility(ies):

063062

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Product Service

C E R T I F I C A T E

No. Z2 053696 2768 Rev. 00

Holder of Certificate: **KOMPAN A/S**
C.F. Tietgens Boulevard 32C
5220 Odense SØ
DENMARK

Certification Mark:

Product: **Swings**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 713205773-8

Valid until: 2026-05-24

Date, 2021-06-01

(Tobias Hofmann)

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Product Service

C E R T I F I C A T E

No. Z2 053696 2768 Rev. 00

Model(s):

KSW921, KSW922, KSW923, KSW924, KSW925, KSW926, KSW928, KSW9210, KSW9212

Frames with seats:
KSW92001, KSW92002, KSW92003, KSW92004, KSW92005, KSW92006, KSW92007, KSW92008, KSW92009, KSW92010, KSW92011, KSW92012

Parameters:

Swing combination system made of two A-supports and a crossbar with different seat variations.
Standard or antiwrap suspension and 3 heights 2.0 m 2.5 m and 3.0 m.
The frames are made for one, two or a cluster of frame sections.
For more than two seats with a A-support to separate the frame sections.
Posts and crossbars made of 101.6x2.9 mm galvanized steel.
Powder coating is optional for both, posts and crossbars.

Swing seats used in models:
SW990010, SW990011, SW990012, SW990019, SW990022, SW990023, SW990024, SW990025, SW990026, SW990030, SW990031, SW990081, SW990091, SW990101, SW990111, SW990121, SW990122, SW990201, SW990202

Tested according to:

DIN EN 1176-1:2017
DIN EN 1176-2:2020
EN 1176-1:2017
EN 1176-2:2020

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Product Service

CERTIFICATE

No. Z2 053696 2723 Rev. 00

Holder of Certificate: **KOMPAN A/S**
C.F. Tietgens Boulevard 32C
5220 Odense SØ
DENMARK

Certification Mark:

Product: **Playground equipment**

Model(s): **JUM101, JUM102, JUM103, JUM104, JUM105**

Parameters:
- Frame 3 mm hot galvanized steel.
- Springs stainless steel 3.2 mm.
- Membrane 6.5 mm PET and PA reinforced EPDM.

Tested according to:
DIN EN 1176-1:2017
EN 1176-1:2017

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 713205773-1
Valid until: 2026-02-14

Date, 2021-02-16

(Tobias Hofmann)

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LABOSPORT

Technical Report

Assessment of impact absorbing playground surfacing in accordance with BS EN 1177 and BS 7188

for

Rosehill Polymers Ltd

Summary

Samples of impact absorbing playground surfacing have been tested in accordance with BS EN 1177: *Impact absorbing playground surfacing – Performance requirements and test methods* and selected properties detailed in BS 7188: *Impact absorbing playground surfacing – Performance requirements and test methods.* This report describes the samples tested; details the tests carried out and results obtained and compares the results to the recommendations of the British Standard.

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1 Client

Rosehill Polymers Ltd
Rose Hills Mills
Beech Road
Sowerby Bridge
HX6 2JT

2 Samples

Samples of impact absorbing playground surfacing were supplied by Rosehill Polymers Ltd for test. They comprised a 35mm thick surface formed from two layers. The lower layer (based on descriptions provided by Rosehill Polymers Ltd) comprised a nominal 35mm thick base layer formed from 2mm – 8mm SBR granules bound with 10% *Flexilon* binder. The wearing surface was nominally 15mm thick and was formed from 1mm – 4mm T.P.V. *Inplay* bound with 18% *Flexilon* binder.

3 Methods of test

The surface was assessed in accordance with BS EN 1177: Impact Absorbing Playground Surfacing - *Safety Requirements and Test Methods* and BS 7188: 1998: *Impact absorbing playground surfacing – Performance requirements and test methods.*

3.1 Critical fall height

The critical fall height of the surface was measured in accordance with BS EN 1177: 1998: *Impact absorbing playground surfacing – Performance requirements and test methods*. At each drop height nine tests were made, the mean result for each height been calculated and plotted.

3.2 Slip resistance

Slip resistance was measured in accordance with Clause 5 of BS 7188. This test uses the TRRL skid resistance tester. Tests were made under dry and wet conditions.

3.3 Resistance to indentation

The samples resistance to indentation was measured in accordance with Clause 6 of BS 7188. In this test a 500N load is applied to the sample through a 11.3mm diameter indenter and the indentation under load and following removal of the load of the sample is recorded over a period of time.

3.4 Ease of ignition

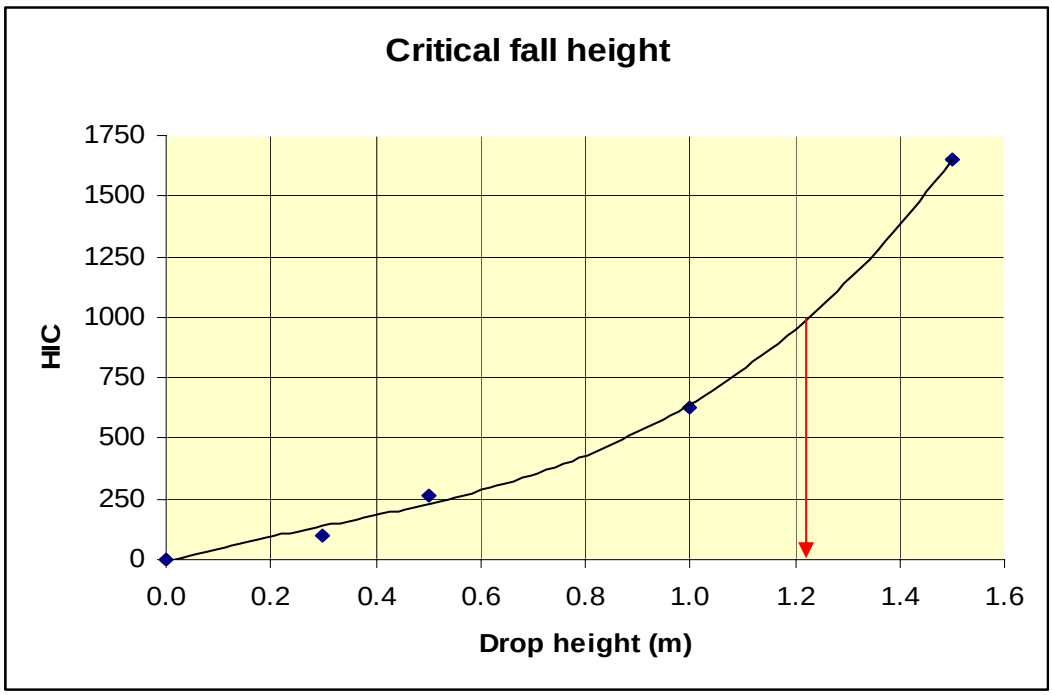
The ease of ignition of the surface was measured in accordance with Clause 7 of BS 7188 which specifies a surface is tested in accordance with BS 4790 (Hut Nut Test).

3.5 Tensile properties

The tensile strength of the wearing surface of the surfacing system was measured in accordance with Clause 8 of BS 7188.

4 Results

4.1 Critical Fall Height



Result = 1.2m

The critical fall height is quoted to one decimal place without rounding. An example of a time/deceleration graph is included in Appendix A.

4.2 Slip resistance

Test condition	
Dry	Wet
99	54

Requirements specified in BS 7188

Minimum slip resistance of 40 under dry or wet conditions.

4.3 Resistance to indentation

Test piece	Phase	Indentation value (mm) after time of			
		90 sec	15 min	150 min	22 hr
1	Loading	8.64	11.92		
	Recovery	3.05	2.88	2.46	1.55
2	Loading	10.78	11.19		
	Recovery	3.69	2.87	1.84	1.07
3	Loading	9.44	10.20		
	Recovery	2.29	1.52	1.19	1.00
mean	Loading	9.62	11.10		
	Recovery	3.01	2.42	1.83	1.21
Visual assessment					
1	No cracking, splitting or penetration of sample				
2	No cracking, splitting or penetration of sample				
3	No cracking, splitting or penetration of sample				

Requirements specified in BS 7188

Residual indentation: No greater than 5.0mm at conclusion of recovery period

Visual assessment: No cracking, splitting or penetration of sample

4.4 Ease of ignition

The test results obtained relate only to the behaviour specimens after application of a small source of ignition; they shall not be used s a means of assessing how the product will contribute to an established fire.

Measurement	Unit	Test piece			Max
		1	2	3	
Application of nut to extinction of flame	Sec	180	143	132	180
Extinction of flame after removal of nut	Sec	150	113	102	150
afterglow after flame extinction	Sec	38	23	25	38
Radius of burn*	mm	20	20	20	20

* the radius of burn is quoted to the nearest 5mm

Requirements specified in BS 7188

Surfaces having a radius of burn of 35mm or less shall be classified as having a 'low radius of effects of ignition'.

4.6 Tensile properties

Mean tensile strength of wearing surface = 1.41 Mpa

Requirements specified in BS 7188

Mean tensile strength of wearing surface: greater than 0.4Mpa.

5 Conclusions

5.1 Critical Fall Height

There are no minimum values of critical fall height. When installing impact absorbing playground surfacing the Critical Fall Height of the surfacing has to be greater than the potential fall height of the play equipment.

5.2 Slip Resistance

The sample satisfies the Slip Resistance requirement of BS 7188 undr dry and wet conditions.

5.3 Resistance to indentation

The sample satisfies the Resistance to Indentation requirement of BS 7188.

5.4 Ease of ignition

The sample satisfies the Ease of Ignition requirement of BS 7188.

5.5 Tensile properties

The wearing course layer satisfies the tensile properties requirement of BS 7188.

Report prepared by:

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Alastair Cox

Director

Appendix A – example of time / deceleration graph