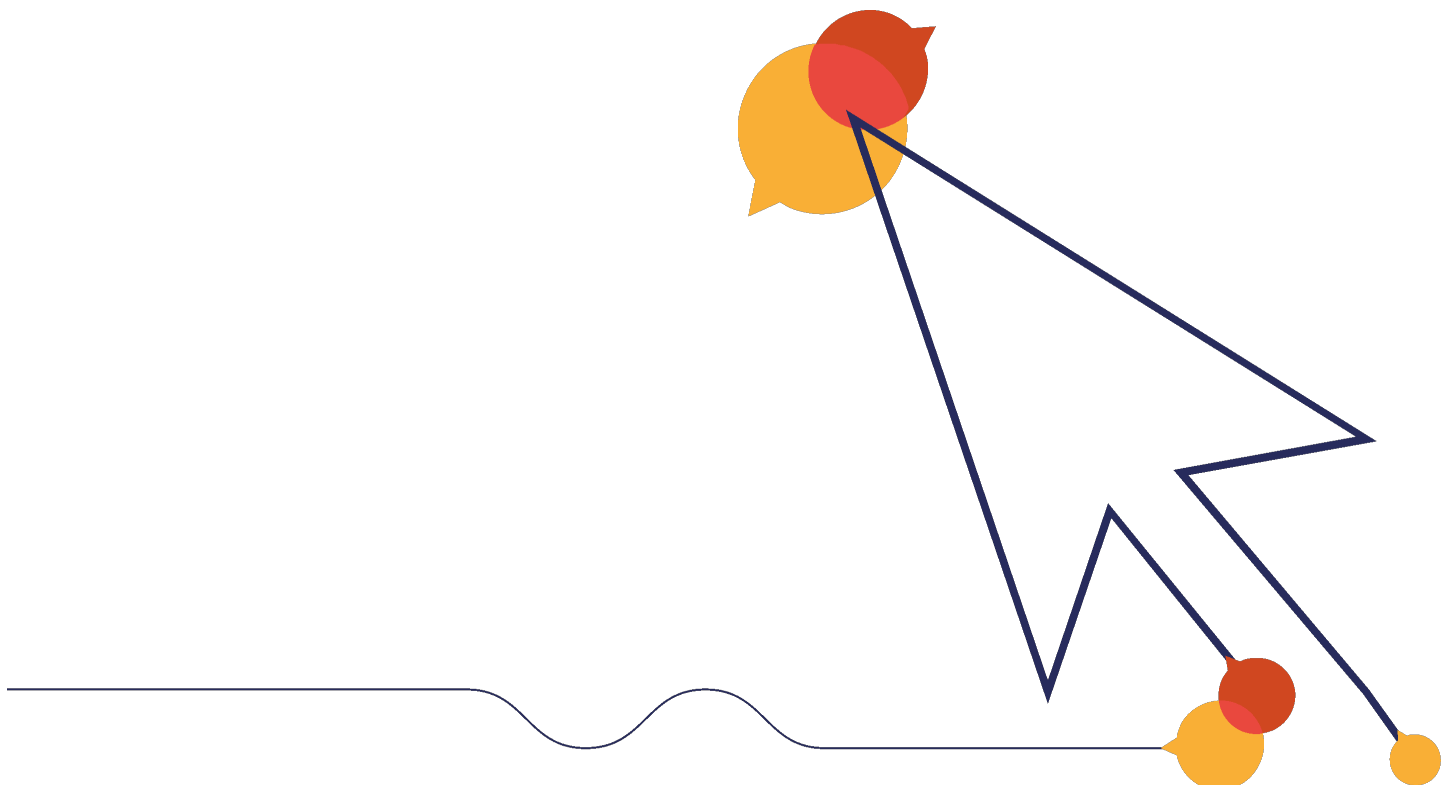


Lodge Field Playground

Hurst Green Parish Council

27 June 2018



Safety Inspection Report

Site name: **Lodge Field Playground**

Date of inspection: **27 June 2018**

Inspector: **Peter Mann**



The assets on site are categorised as **Ancillary Items** or **Play Items**, and listed under those headings.

Each **Ancillary Item** is listed in this way:

Name of item or items	(some listings may include multiple items)
Default risk = n	(This is the item's intrinsic risk if in pristine condition)
Photo	(A representative photo is included)
Findings	(Findings are listed with remedial action, risk score and photograph. If no faults are listed the item is satisfactory and assumes the Default risk.)

Each **Play Item** is listed in this way:

Name of item	
Manufacturer	(The name of the manufacturer or supplier, if known)
Applicable Standard:	(The number of any applicable standards are shown here)
Default risk = n	(This is the item's intrinsic risk if in pristine condition)
Photo	
Faults	(Findings are listed with remedial action, risk score and photograph. If no faults are listed the item is satisfactory and assumes the Default risk.)

The risk score for any items is the higher of the Default risk or the Finding risk.

Seating - Plastic

Model Glasdon UK Limited Manufactured by Glasdon UK Limited

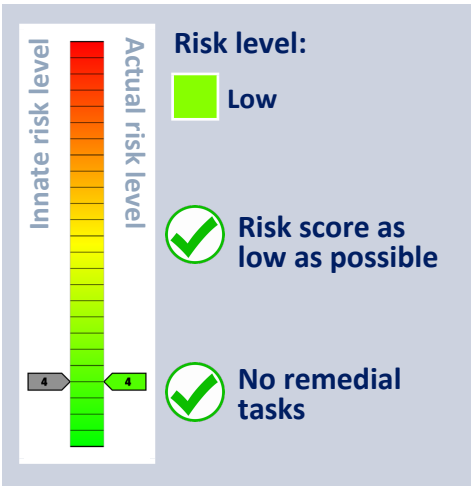


Standards: 

The item meets with the requirements of the relevant standards.

Seating - Timber

Manufactured by (Unknown)



Standards: 

The item meets with the requirements of the relevant standards.

Hedge

Manufactured by (Unknown)



Innate risk level

Actual risk level

5

8

Risk level:

Medium

Potential risk score reduction:

3

Remedial tasks:

1

Standards:

The item meets with the requirements of the relevant standards.

Finding

Description

Encroaching vegetation or trees.

Tasks

Remove.

Note

Nettles and brambles.

Risk level:

Medium

Risk score:

8

Finding Photos



Fencing



Fencing - Ball Stop

Manufactured by (Unknown)



Innate risk level

Actual risk level

5

7

Risk level:

Low

Potential risk score reduction:

2

Remedial tasks:

1

Standards:

The item meets with the requirements of the relevant standards.

Finding

Description

Fixtures loose or missing.

Tasks

Tighten/replace.

Note

Centre line wire.

Risk level:

Low

Risk score:

7

Finding Photos



Gate - Maintenance

Manufactured by (Unknown)



Innate risk level

Actual risk level

5

8

Risk level:

Medium

Potential risk score reduction:

3

Remedial tasks:

2

Standards:

The item meets with the requirements of the relevant standards.

Finding

Description

The item is unlocked.

Tasks

Lock.

Note

Risk level:

Medium

Risk score:

8

Finding Photos



Finding

Description

Timber is decayed.

Tasks

Repair.

Note

At latch post.

Risk level:

Low

Risk score:

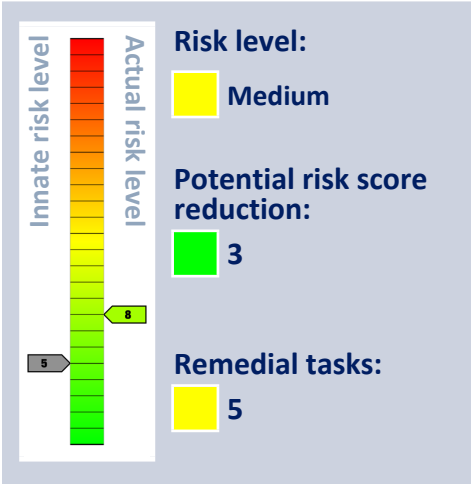
7

Finding Photos



Gate - Pedestrian - Timber

Manufactured by (Unknown)



Standards: 

The item meets with the requirements of the relevant standards.

Finding

Description
Fixtures loose or missing.
Tasks
Tighten/replace.
Note
Latch pin.



Finding Photos



Finding

Description

Gate buffer(s) required.

Tasks

Fit a buffer.

Note

To stop finger crush at post.

Risk level:



Low

Risk score:



7

Finding Photos



Finding

Description

Hard or sharp projections.

Tasks

Read the notes for further action.

Note

Latch pin at children's face height - Fit plastic cover or ball end.

Risk level:



Medium

Risk score:



8

Finding Photos



Finding

Description

Timber is splintered.

Tasks

Repair.

Note

Support post.

Risk level:



Medium

Risk score:



8

Finding Photos



Finding

Description

Trip points on the surface.

Tasks

Make level.

Note

At timber edge.

Risk level:



Medium

Risk score:



8

Finding Photos



General Surface



Innate risk level

Actual risk level

4

5

Risk level:

Low

Potential risk score reduction:

1

Remedial tasks:

1

Finding

Description

Surface is uneven.

Tasks

Make good.

Note

Risk level:

Low

Risk score:

5

Finding Photos



Balance Trail - Chains & Logs

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

5

7

Risk level:

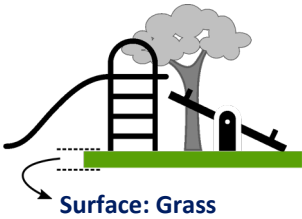
Low

Potential risk score reduction:

2

Remedial tasks:

2



Standards:

The item meets with the requirements of the relevant standards.

Finding

Description

There are natural splits / shakes in the timbers.

Tasks

Shakes vary. Monitor and consult manufacturer if dimensions exceed 8 mm at sections used to grip / grasp.

Note

Risk level:

Low

Risk score:

7

Finding Photos



Finding

Description

Strimmer damage to supports is likely to accelerate timber rot.

Tasks

Prevent further damage.

Note

Risk level:

Low

Risk score:

7

Finding Photos



Goal Posts - Junior

Manufactured by (Unknown)



Standards: 

The item meets with the requirements of the relevant standards.

Finding

Description

Loose in ground.

Tasks

Reset.

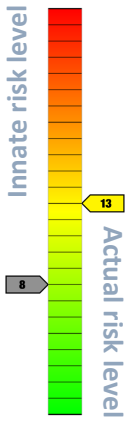
Note

It is likely that the goals would fail both the stability and strength tests of EN 16579 if they were applied (not carried out as part of this inspection). We can conduct such testing by separate arrangement.

Finding Photos




Innate risk level




Actual risk level


Risk level:

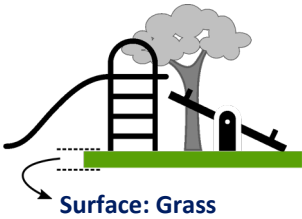
 High

Potential risk score reduction:

 5

Remedial tasks:

 3



Description

Loose in ground.

Tasks

Reset.

Note

It is likely that the goals would fail both the stability and strength tests of EN 16579 if they were applied (not carried out as part of this inspection). We can conduct such testing by separate arrangement.

Risk level:

 High

Risk score:

 13

Finding

Description

Paintwork is in poor condition.

Tasks

De-scale back to good base material and coat with lead free paint, using appropriate precautions. Repairs may be necessary where corrosion is severe.

Note

Risk level:

 Low

Risk score:

 5

Finding Photos



Finding

Description

Worn ground areas.

Tasks

Build up ground levels to remove trip hazard.

Note

Risk level:

 Medium

Risk score:

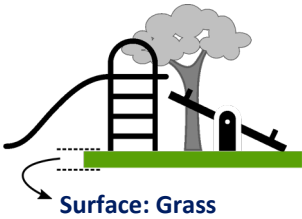
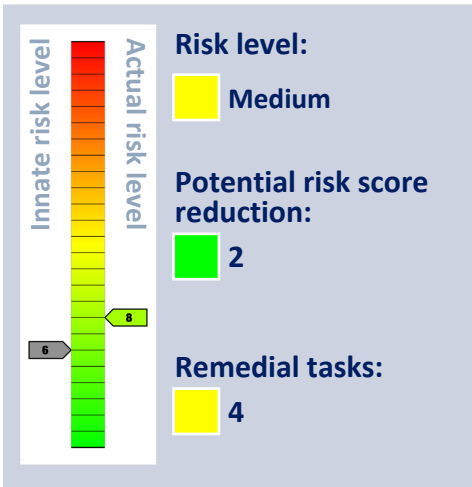
 8

Finding Photos



Multiplay - House

Model Sovereign Design Play Systems Ltd Manufactured by Sovereign Design Play Systems Ltd



Standards:

The item is not compliant with the requirements of the relevant standards.

Finding

Description

Roof panel is damaged.

Tasks

Repair.

Note

Finger trap formed.



Finding Photos



Finding

Description

Strimmer damage to supports is likely to accelerate timber rot.

Tasks

Prevent further damage.

Note

Risk level:



Low

Risk score:



6

Finding Photos



Finding

Description

Worn ground areas.

Tasks

Make good.

Note

Installation of matting wear pads recommended.

Risk level:



Medium

Risk score:



8

Finding Photos



Finding

Description

Edges not radiused or chamfered.

Tasks

Provide a minimum 3 mm radius.

Note

At roof corners and under roof edge boards.

Risk level:

 Low

Risk score:

 6

Finding Photos



Multiplay - Toddlers

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

5

7

Risk level:

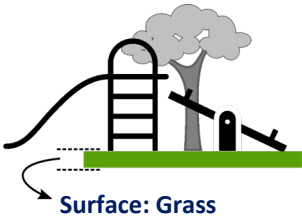
Low

Potential risk score reduction:

2

Remedial tasks:

6



Standards: 

The item is not compliant with the requirements of the relevant standards.

Finding

Description

Cap missing.

Tasks

Replace.

Note

Across unit.

Risk level:

Low

Risk score:

5

Finding Photos



Finding

Description

Laminate damaged.

Tasks

Rub down and treat damaged edges.

Note

Older deck boards.

Risk level:



Low

Risk score:



7

Finding Photos



Finding

Description

There are natural splits / shakes in the timbers.

Tasks

Shakes vary. Monitor and consult manufacturer if dimensions exceed 8 mm at sections used to grip / grasp.

Note

Risk level:



Low

Risk score:



7

Finding Photos



Finding

Description

Strimmer damage to supports is likely to accelerate timber rot.

Tasks

Prevent further damage.

Note

Risk level:

 Low

Risk score:

 7

Finding Photos



Finding

Description

Timber is rotting.

Tasks

Replace.

Note

Laminate ramp boards and palisade logs.

Risk level:

 Low

Risk score:

 7

Finding Photos



Finding

Description

Edges not radiused or chamfered.

Tasks

Provide a minimum 3 mm radius.

Note

New board edges.

Risk level:
 Low

Risk score:
 6

Finding Photos



Play House - Seating

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

4

7

Risk level:

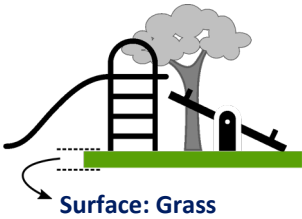
Low

Potential risk score reduction:

3

Remedial tasks:

3



Standards:

The item meets with the requirements of the relevant standards.

Finding

Description

There are natural splits / shakes in the timbers.

Tasks

Shakes vary. Monitor and consult manufacturer if dimensions exceed 8 mm at sections used to grip / grasp.

Note

Finding Photos



Risk level:

Low

Risk score:

6

Finding

Description

Strimmer damage to supports is likely to accelerate timber rot.

Tasks

Prevent further damage.

Note

Risk level:

 Low

Risk score:

 6

Finding Photos



Finding

Description

Surface is uneven.

Tasks

Make good.

Note

Consider wear pad.

Risk level:

 Low

Risk score:

 7

Finding Photos



Play Train - Coal Truck

Model Sovereign Design Play Systems Ltd Manufactured by Sovereign Design Play Systems Ltd



Standards: 

The item meets with the requirements of the relevant standards.

Innate risk level

Actual risk level

4

4

Risk level:

Low

✓

Risk score as low as possible

✓

No remedial tasks

Inspection SI0000107403. Report produced on 03/07/2018 at 14:04:32

27

Play Train - Engine

Model Sovereign Design Play Systems Ltd Manufactured by Sovereign Design Play Systems Ltd



Innate risk level

Actual risk level

4

8

Risk level:

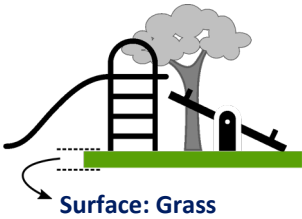
Medium

Potential risk score reduction:

4

Remedial tasks:

3



Standards:

The item is not compliant with the requirements of the relevant standards.

Finding

Description

Fixtures loose or missing.

Tasks

Tighten/replace.

Note

From front panel.

Risk level:

Low

Risk score:

6

Finding Photos



Finding

Description

Worn ground areas.

Tasks

Build up ground levels to remove trip hazard.

Note

Matting wear pad recommended.

Risk level:



Medium

Risk score:



8

Finding Photos



Finding

Description

Safety zones should be free from any obstacles.

Tasks

Read the notes for further action.

Note

Coal wagon within 1.5m of accessible roof - Consider increasing space between units.

Risk level:



Low

Risk score:



7

Finding Photos



Rocker - Bird

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

5

7

Risk level:

Low

Potential risk score reduction:

2

Remedial tasks:

1



Standards:

EN 1176-1:2017, EN 1176-6:2017
The item meets with the requirements of the relevant standards.

Finding

Description

Item is damaged.

Tasks

Replace.

Note

Spring base cover (may have been damaged by recent grass maintenance)

Risk level:

Low

Risk score:

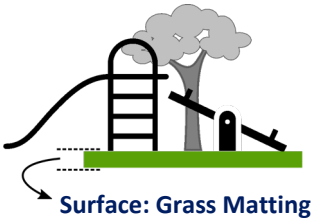
7

Finding Photos



Rocker - Horse

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Standards:

EN 1176-1:2017, EN 1176-6:2017
The item meets with the requirements of the relevant standards.

Rocker - Motorbike

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

5

5

Risk level:

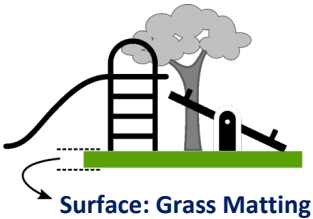
Low

✓

Risk score as low as possible

✓

No remedial tasks



Standards:

EN 1176-1:2017, EN 1176-6:2017
The item meets with the requirements of the relevant standards.

Basketball Post

Manufactured by (Unknown)



Standards: 

EN 1270:2005, EN 15312:2007+A1:2010
The item meets with the requirements of the relevant standards.

Innate risk level

Actual risk level

8

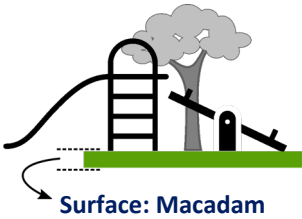
8

Risk level:

Medium

 Risk score as low as possible

 No remedial tasks



Shelter - Seating

Manufactured by (Unknown)



Innate risk level

Actual risk level

6

8

Risk level:

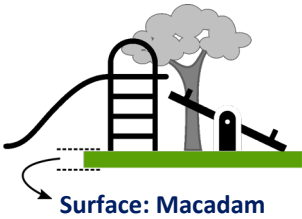
Medium

Potential risk score reduction:

2

Remedial tasks:

3



Standards:

The item meets with the requirements of the relevant standards.

Finding

Description

There is broken glass on site.

Tasks

Clear away immediately.

Note

Risk level:

Medium

Risk score:

8

Finding Photos



Finding

Description

Vandalised (arson).

Tasks

Repair.

Note

Glazed window panel.

Risk level:

 Low

Risk score:

 6

Finding Photos



Finding

Description

Litter on site.

Tasks

Clean up.

Note

Around seating area.

Risk level:

 Low

Risk score:

 5

Finding Photos



Stepping Logs

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

4

8

Risk level:

Medium

Potential risk score reduction:

4

Remedial tasks:

4

Standards:

The item meets with the requirements of the relevant standards.

Finding

Description

Missing item.

Tasks

Replace.

Note

One post missing replace or fill in hole. Trip hazard.

Risk level:

Medium

Risk score:

8

Finding Photos



Finding

Description

There are natural splits / shakes in the timbers.

Tasks

Shakes vary. Monitor and consult manufacturer if dimensions exceed 8 mm at sections used to grip / grasp.

Note

Risk level:



Low

Risk score:



6

Finding Photos



Finding

Description

Strimmer damage to supports is likely to accelerate timber rot.

Tasks

Prevent further damage.

Note

Risk level:



Low

Risk score:



7

Finding Photos



Finding

Description

Timber is decayed.

Tasks

Replace affected parts.

Note

Risk level:

Low

Risk score:

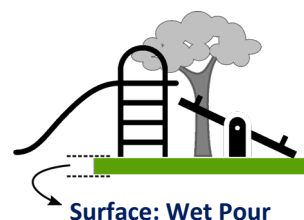
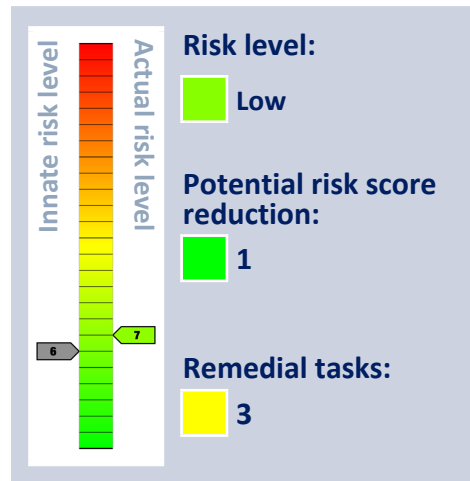
7

Finding Photos



Suspended Tyre Walk - With Climber - Overhead - Pegs

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Standards:



The item meets with the requirements of the relevant standards.

Finding

Description

Item is damaged.

Tasks

Replace.

Note

One step up log - at end of tyre walk.

Risk level:

Low

Risk score:

7

Finding Photos



Finding

Description

There are natural splits / shakes in the timbers.

Tasks

Shakes vary. Monitor and consult manufacturer if dimensions exceed 8 mm at sections used to grip / grasp.

Note

Risk level:



Low

Risk score:



6

Finding Photos



Finding

Description

Timber is splintered.

Tasks

Repair.

Note

Monkey rungs and steps.

Risk level:



Low

Risk score:



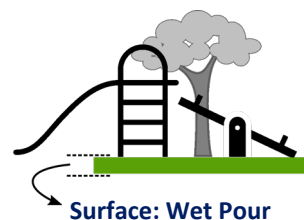
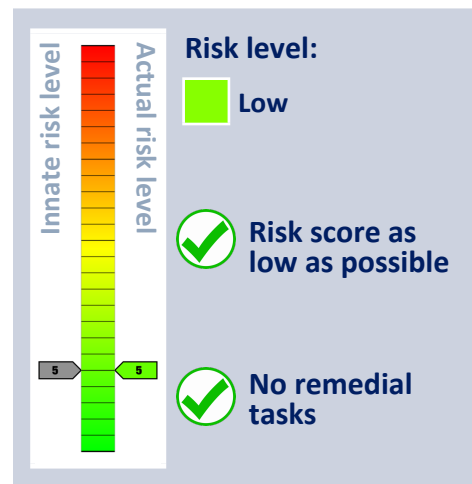
7

Finding Photos



Swing - Junior - 1 Bay 2 Seat

Model Kompan Limited Manufactured by Kompan Ltd



Standards:



EN 1176-1:2017, EN 1176-2:2017

The item meets with the requirements of the relevant standards.

Swing - Toddler - 1 Bay 2 Seat

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

5

7

Risk level:

Low

Potential risk score reduction:

2

Remedial tasks:

5



Standards:

EN 1176-1:2017, EN 1176-2:2017
The item meets with the requirements of the relevant standards.

Finding

Description

Bird fouling present.

Tasks

It is recommended that playground equipment be regularly checked for bird fouling - if found, the affected items should be cleaned with a disinfectant solution.

Note

Finding Photos



Risk level:

Low

Risk score:

7

Finding

Description

The swing seat has been damaged, but does not require immediate replacement.

Tasks

Monitor and replace when hard material is exposed.

Note

Splits in rubber crotch straps.

Risk level:



Low

Risk score:



5

Finding Photos



Finding

Description

There is decay to timber components which may affect structural integrity. We do not recommend replacing rotten supports with timber posts which are directly set in the ground due to the increased problem of timber rot, especially in posts in contact with the ground.

Tasks

Read the notes for further action.

Note

At upper section of one support - Monitor for stability.

Risk level:



Low

Risk score:



7

Finding Photos



Finding

Description

There are natural splits / shakes in the timbers.

Tasks

Shakes vary. Monitor and consult manufacturer if dimensions exceed 8 mm at sections used to grip / grasp.

Note

Risk level:



Low

Risk score:



6

Finding Photos



Finding

Description

Strimmer damage to supports is likely to accelerate timber rot.

Tasks

Prevent further damage.

Note

Risk level:



Low

Risk score:



7

Finding Photos



Traversing Trees

Model Sovereign Design Play Systems Ltd Manufactured by Sovereign Design Play Systems Ltd



Innate risk level

Actual risk level

7

7

Risk level:

Low

✓

Risk score as low as possible

Remedial tasks:

2



Standards:

✓

The item meets with the requirements of the relevant standards.

Finding

Description

The surface is cracking.

Tasks

Repair.

Note

Risk level:

Low

Risk score:

6

Finding Photos



Finding

Description

Moss is present.

Tasks

Remove.

Note

Risk level:

Low

Risk score:

7

Finding Photos



Wobble Board

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



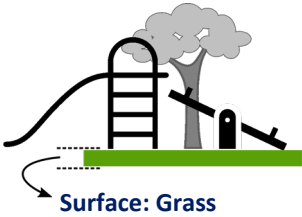
Standards:

The item meets with the requirements of the relevant standards.

Risk level: Low

Risk score as low as possible

No remedial tasks



Surface: Grass

Burma Bridge

Model Playdale Playgrounds Limited Manufactured by Playdale Playgrounds Ltd



Innate risk level

Actual risk level

5

7

Risk level:

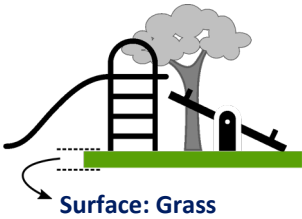
Low

Potential risk score reduction:

2

Remedial tasks:

4



Standards: 

The item meets with the requirements of the relevant standards.

Finding

Description

Item is damaged.

Tasks

Repair.

Note

Top of brace beam.

Risk level:

Low

Risk score:

6

Finding Photos



Finding

Description

There are natural splits / shakes in the timbers.

Tasks

Shakes vary. Monitor and consult manufacturer if dimensions exceed 8 mm at sections used to grip / grasp.

Note

Risk level:



Low

Risk score:



6

Finding Photos



Finding

Description

Strimmer damage to supports is likely to accelerate timber rot.

Tasks

Prevent further damage.

Note

Risk level:



Low

Risk score:



7

Finding Photos



Finding

Description

Timber is splintered.

Tasks

Repair.

Note

Log ends.

Risk level:

Low

Risk score:

6

Finding Photos



General Notes

The risk scores are calculated by plotting the likelihood of harm against the severity of the injury sustained. The likelihood is given a score of 1 to 5, and the severity is given a score of 1 to 5. In doing this a matrix is produced which gives a numerical assessment of the risk on a score of 1 to 25, and a judgement is made as to which risks are low, which are medium and which are high. Risk scores may be adjusted in the light of experience and therefore may not be exactly as per the table. For example, a score of 7 may be noted.

Risks are calculated in this way:

1. An assessment of the likelihood of harm taking place is made using the numbers 1 to 5, by following these descriptions:
 - a. 1 = Rare
 - b. 2 = Unlikely
 - c. 3 = Moderate
 - d. 4 = Likely
 - e. 5 = Certain
2. An assessment of the severity of the injury sustained is made using the numbers 1 to 5, by following these descriptions:
 - a. 1 = Insignificant
 - b. 2 = Minor
 - c. 3 = Moderate
 - d. 4 = Major
 - e. 5 = Catastrophic
3. The two numbers are multiplied to give a risk score on a scale of 1 to 25.
4. Scores of 1 to 7 inclusive are considered to be low risk and are considered to be tolerable,
5. Scores of 8 to 14 are considered to be medium risk and some control measures may be identified to reduce the risks to low, tolerable levels,
6. Score of 15 and above are considered to be high risk and urgent action is considered to be necessary to reduce the risks to tolerable levels.

General Notes

It is important to note that where an outcome is catastrophic, but for which the likelihood is rare this will present a score of $1 \times 5 = 5$ = low risk. Similarly, a certain event for which the consequence is insignificant will present a score of $5 \times 1 = 5$ = low risk. It is important to consider likelihood and consequence, and not just one of the factors in isolation.

The multiplication of the factors into a risk matrix is given here in Table 1, with a judgement made as to risk scoring indicated by colour.

Green = LOW risk, Amber = MEDIUM risk, Red = HIGH risk.

Table 1 – Risk Score Matrix

L i k e l i h o o d	Severity					
		1 Insignifi- cant	2 Minor	3 Moderate	4 Major	5 Catastro- phic
	1 = Rare	1 LOW	2 LOW	3 LOW	4 LOW	5 LOW
	2 = Unlikely	2 LOW	4 LOW	6 LOW	8 MEDIUM	10 MEDIUM
	3 = Moderate	3 LOW	6 LOW	9 MEDIUM	12 MEDIUM	15 HIGH
	4 = Likely	4 LOW	8 MEDIUM	12 MEDIUM	16 HIGH	20 HIGH
	5 = Certain	5 LOW	10 MEDIUM	15 HIGH	20 HIGH	25 HIGH

General Notes

Equipment has been assessed for compliance with the appropriate standards, which are listed next to each item. Compliance with these standards is not mandatory in law, but it is useful to know whether items comply or not. If we think a change is needed, then this is noted in our report. Non-compliance does not necessarily mean that a change is needed.

Compliance with standards is not always a clear-cut thing. Some interpretation can be needed, and our interpretation may differ from the interpretation of others. In some cases, we may decide not to note non-compliance in cases where we think it may mislead or be unhelpful so to do.

Exposure to acceptable levels of risk and challenge is essential to children's development and allows them to exercise their right to play. Therefore, it can be judged that levels of risk above low risk can be acceptable. The risk scores shown allow the operator to make a judgement after first considering the benefit of the activity to which the risk score relates.

There may be cases where we report issues that are not the site owner's responsibility. It is not necessarily possible for us to determine who owns what, and in any case we need to bring all risks to your attention if they can affect the safety of the site's users.

Our report shows the findings at the time of inspection. Subsequent events may affect the condition of the site. We have inspected without dismantling or destruction and so some aspects of the relevant standards may not be testable on site.

Where timbers are set into the ground it is not always possible to determine levels of decay. The owner should ensure they conduct appropriate inspections to identify decay before it becomes a problem.



EN 1176 Notes – Summary of Requirements

PROTECTION AGAINST INJURIES IN THE FREE SPACE

- * No obstacles in the minimum space (other than structures to assist or safeguard the user)
- * Traffic flows should not go through the minimum space

PROTECTION AGAINST INJURIES IN THE FALLING SPACE

- * Free height of fall should not exceed 3m
- * No obstacles in the falling space
- * Platforms with fall heights of more than 1m between them require surfacing

PROTECTION AGAINST INJURIES DUE TO OTHER TYPES OF MOVEMENT

- * No unexpected obstacles

SURFACING SAFETY REQUIREMENTS

- * Surfacing should have no sharp edges or protrusions
- * Loose fills should be 100mm more than the depth required to meet the HIC reading (usually 200mm)
- * Hard surfaces should only be used outside where children fall
- * Testable Impact absorbing surfaces if falls over 600mm are possible. Topsoil or turf may be used up to 1m

DESIGN AND MANUFACTURE

- * The equipment must be suitable for the user and risks should be identifiable by the child
- * Accessibility: adults must be able to gain access to help children
- * Grip requirements: permitted diameter 16 - 45mm (i.e. overhead bars)
- * Grasp requirements: maximum diameter 60mm (e.g. handrails on steps)
- * Requirements for easily accessible equipment

FINISHING

- * Timber species and synthetics should be splinter resistant
- * No protrusions or sharp-edged components
- * Bolts should not protrude by more than 8mm
- * Corners, edges or projecting parts over 8mm should have a 3mm radius.
- * No hard and sharp-edged parts (e.g. razor blade effect caused by sheet steel)
- * No crushing or shearing points
- * Connections should not come loose by themselves and should resist removal.
- * Timber connections should not rely solely on screws or nails.
- * Leaking lubricants should not stain or impair the safety of the equipment

FIBRE ROPES

- * Conform to EN 701 or 919 or have a material and load certificate
- * Ropes used by hands shall have a soft, non-slip covering

WIRE ROPES

- * Non-rotating and corrosion resistant with no splayed wires outside the ferrule
- * Wire connector clip threads should protrude less than 8mm
- * Turnbuckles should be enclosed, have a loop at each end and be secured

CHAINS

- * Maximum opening of individual links: 8.6mm in any one direction.
- * Connecting links between chains must be less than 8.6mm or over 12mm

SWINGING SUSPENDED ROPES

- * Not combined with swings in the same bay
- * Less than 2m long: over 600mm from static parts; over 900mm from swinging parts
- * 2m - 4m long: over 1000mm from anything
- * Diameter: 25 - 45mm

CLIMBING ROPES

- * Anchored at both ends and movement less than 20% of rope length
- * Single climbing rope diameter: 18 - 45mm (nets comply with Grip requirements)

ENTRAPMENTS

- * Entrapment: a place from which children cannot extricate themselves unaided
- There are six probes: the Torso Probe, the Large Head Probe, The Small Head probe, the Wedge Probe and the two Finger Rods. There is a toggle test to reduce the dangers of clothing toggles being caught on slides, fireman's poles and roofs, and a ring gauge to test for rocker hand/foot rest protrusions.

BRIDGES

- * The space between the flexible bridge and rigid sides should be not less than 230mm

ENTRAPMENT OF FEET AND LEGS

- * Inclined planes (not suspension bridges) less than 38° should have no gaps over 30mm
- * There are no requirements for suspension bridge gaps other than the main entrapment requirements

FINGER ENTRAPMENTS

- These occur in: 1. gaps where child's movement may cause a finger to become stuck; 2. open-ended tubes; 3. moving gaps
- * Tube ends should be securely enclosed and removable only with tools
 - * Moving gaps should not close to less than 12mm

BARRIERS AND GUARD-RAILS

- * Hand-rail: a rail to help the child balance
- * Guard-rail: a rail to prevent children falling
- * Barrier: a guard-rail with non-climbable in-fill

HAND-RAILS

- * Where required they should be between 600 and 850mm above the standing surface

EQUIPMENT FOR UNDER 3'S

- * Platforms over 600mm require a barrier with a minimum height of 700mm high + impact absorbing surfacing

EQUIPMENT FOR OVER 3'S

- * Platforms up to 1000mm: No barriers or guard-rails required + impact absorbing surface over
- * Platforms 1000-2000mm: 600 - 850mm high guard-rail + impact absorbing surfacing
- * Platforms 2000-3000mm: 700mm high barrier + impact absorbing surfacing
- * No bars, infills or steps which can be used as steps. Tops should discourage standing or sitting

MEANS OF ACCESS

- The main change in this area is that the probes should now be applied to accesses. All means of access should have no entrapments; be securely fixed; be level to $\pm 3^\circ$ (ramps across width) and have a constant angle. It does not refer to agility equipment used as an access i.e. arched climbers, scramble nets. There are specific measurements for ladders, stairs and ramps.

EN 1176 Notes – Summary of Requirements

SWINGS

The main changes relate to requirements for new types of swings, dimensions and surfacing areas.

REQUIREMENTS

* No all rigid suspension members (i.e. solid bar top to bottom) * Design should be principally for use by seated children (RoSPA interpretation) * Two seats per bay maximum. Do not mix cradle and flat seats in same bay * Some types of swings have slightly different requirements. Information should be obtained from the supplier * Single point swing chains should not twist round each other * Single point swings require a secondary bearing support mechanism

DIMENSIONS

* Minimum ground clearance at rest: 350mm (400mm for single point swings and tyres) * No maximum seat surface height but RoSPA recommends a max. height of 635mm for cradles and flat seats * Distance between seat and frame: 20% of swing suspension + 200mm * Distance between seats: 20% of the swing suspension + 300mm * Pivot splay (separation distance) at crossbar: width between seat fixings plus 5% of swing suspension length

SITING

* Swing sets for young children should be separated from those for older children and sited to avoid cross traffic

SURFACING REQUIREMENTS

Forward and Back

* Different areas for synthetic and loose-fill surfaces in a box or pit. Measurements each way are: 1. synthetic: $0.867 \times \text{length of suspension member} + 1.75\text{m}$ 2. loose-fill: $0.867 \times \text{length of suspension member} + 2.25\text{m}$

Side width

* Seat width no greater than 500mm: 1.75m minimum (i.e. .875m each way from seat centre)

* Areas for two seats in one bay may overlap providing the distance between seats is correct

Single point swings

* Circular area with a radius equal to the Forward and Backward figure for other swings

SLIDES

SAFETY REQUIREMENTS

* Free-standing slides: the max. vertical height which a stairway can reach without a change of direction is 2.5m. * Starting section at the top of each chute: length 350mm minimum, zero to 5° downwards at the centre line.

N.B. This can be the platform if the slide is attached to it * If the starting section is over 400mm long, platform requirements apply *

From a platform, the gap to the slide is the same width as the slide * Attachment slides over 1m free fall height should have starting section barriers 500mm min. high at one point * Attachment slides over 1m FFH should have a guard-rail across the entrance at a ht. of between 700-900mm

Sliding sections

* Maximum angle: 60° at any one point and an average of 40° * The width of open and straight slides over 1500mm long should be less than 700mm or greater than 950mm * Spiral or curved slides should have a width less than 700mm

RUN -OUTS

* Run-outs of at least 300mm are required if the sliding section is under 1.5m long. * Additional requirements are required for different types of slides * Average angle of run-outs: DIN type 10° (BS type) 5° (both downwards) * Height of run-out: Less than 1.5m sliding length: max. 200mm. Greater than 1.5m sliding length: max. 350mm * Users should come to a stop on the run-out section (BS type only)

* Chutes should have a side height related to the fall height: 1.2m: 100mm minimum : 1.2m - 2.5m: 150mm minimum : Over 2.5m: 500mm minimum

* Maximum side angle from slide bed: 30° * Tops of sides should be rounded or radiused to at least 3mm * Tunnel slides should be a minimum 750mm high and 750mm wide * Tunnels should start on or at the end of the starting section and be continuous over the sliding section only

SURFACING REQUIREMENTS

Normal distances except for the run-out which should be: * DIN type: 1m each side and 2m beyond (or just 1.5m beyond for short slides) * BS type: 1m each side and 1m beyond

CABLE RUNWAYS

SAFETY REQUIREMENTS

* Stop at end should progressively slow down the traveller * Traveller should not be removable except with tools * No access to internal mechanism * Suspension mechanism: flexible, exclude risk of strangulation or be at least 2m above the ground in the middle * Where children hang by the hands, the grip should not be enclosed (i.e. a loop)

* Climbing should be discouraged onto the grip * Children should be able to get off the seat at any time (i.e. no loops or straps) *

Maximum loaded (69.5kg) speed is 7m per second * If two cables are placed parallel the min. distance between them is 2m

IMPACT AREAS

* 2m either side of main cable

ROTATING ITEMS

The main changes are in clearer separation into different types. A change in the clearance between the underside and the ground will affect older items. The change should provide greater safety. NOTE: Rotating items under 500mm diameter are excluded from these requirements

SAFETY REQUIREMENTS

* Maximum free height of fall: 1000mm (For overhead items: 1500 - 3000mm) * Max. speed at periphery under reasonable use: 5m per second. As no method is given, this cannot be tested * Hand grips should be between 16 - 45mm

SPECIFIC REQUIREMENTS

There are specific requirements for different types of roundabout. The two most common ones are:

Platform roundabouts:

EN 1176 Notes – Summary of Requirements

* Platforms should be circular and enclosed * All parts should revolve in the same direction * No super-structure over the edge of the platform * Mechanism should be enclosed * Height between underside and ground 60 – 110mm for 300mm in * Protective skirts should be of rigid material and have no burrs or other defects * The bottom edge should be flared towards the inside or protected

Giant revolving discs

* Clearance of underside at lowest point: 300mm * Max. platform height: 1m * Free space: 3m * Upper surface should be continuous, smooth and with no handles or grips * Underside should be continuous, smooth and without any radial variations (i.e. spokes) or indentations

MINIMUM SPACE

* Free space: Horizontal: 2m all round * Vertical head clearance from platform: sitting 1.5m ; standing 1.8m * Small rotating items under 500mm diameter are excluded but RoSPA suggests as for rocking items

SURFACING REQUIREMENTS

* There are no special extra requirements for surfacing areas * Surfaces should be continuous underneath and level

ROCKING ITEMS

DEFINITIONS

* Rocking equipment which can be moved by the user and is supported from below

* Damping: any movement restricting device. (N.B. Springs are treated as self-damping)

SAFETY REQUIREMENTS

* Throughout the range of movement gaps in all accessible joints should be under 12mm * Progressive restraint at extremity of movement is required * Foot rests should be provided where the ground clearance is less than 230mm * Hand grips should be provided for each seat or standing position

* Foot rests and hand grips should be firmly fixed and non-rotating * Hand grip diameter: 16 - 45mm (for toddler items: 30mm maximum) * Right -angled corners on moving equipment should be 20mm radius min. (e.g. a bird's beak)

MINIMUM SPACE

* 1000mm between items at maximum movement.

SURFACING REQUIREMENTS

There are no special extra requirements for surfacing areas

INSTALLATION, INSPECTION, MAINTENANCE AND OPERATION

SAFETY

* Appropriate safety systems must be established by the operator * No access should be allowed to unsafe equipment or areas * Records should be kept by the playground operator * Effectiveness of safety measures should be assessed annually * Signs should be provided giving owner details and emergency service contact points * Entrances for emergency services should be freely accessible * Information on accidents should be kept (RoSPA has a suitable form)

* Staff and users should be safe during maintenance operations

INSPECTION

* Manufacturers will recommend the inspection frequency although some sites may need a daily check

Frequency

Routine visual inspections: identification of hazards from vandalism, use or weather conditions (RoSPA recommends a recorded daily or weekly inspection) Operational inspection: every 1 -3 months or as recommended. Checks operation, stability, wear etc. Annual main inspection: checks long-term levels of safety

* An inspection schedule should be prepared for each playground, listing components and methods

* Appropriate action should be taken if defects are noted

ROUTINE MAINTENANCE

* Basic routine maintenance details should be supplied by the manufacturer

CORRECTIVE MAINTENANCE

* This covers remedial work and repairs as required * Alterations should only be carried out after consultation & agreement with the supplier or a competent person





Playsafety Ltd
78 Shrivenham Hundred Business Park
Watchfield
SWINDON
SN6 8TY
+44 (0)1793 317470

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