

Miracle Design and Play Ltd

European Standard EN 1176-1: 2017

Maintenance of Equipment

Please note that the information given is only to be used as a guideline. The frequency of inspection may change due to other factors e.g. heavy use, coastal location, age of equipment, levels of vandalism, type of surfacing, ground conditions, flooding etc.

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| 1. | Visual Inspection: | To be carried out weekly |
| 2. | Operational Inspection: | To be carried out every four to six weeks |
| 3. | Main Inspection: | To be carried out at least once a year |

Note: During maintenance or dismantling of the equipment, it is recommended the equipment should be closed to the public. Any items must be put back or replaced before the site can be re-opened. Bolts should be tightened enough to hold equipment in a firm and secure manner. Over tightening will cause the timber to split or paint to chip on steelwork.

A book, inspection and servicing sheets or computer records should be kept by the owner/operator in charge of the equipment detailing what maintenance and inspections have been carried out.

The equipment should be inspected by a competent person.

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Visual Inspection - Weekly

Routine visual inspection enables the identification of obvious hazards that can result from vandalism, use or weather conditions. Visual inspection should be carried out at weekly intervals or daily if equipment is subject to heavy vandalism or heavy use.

Check for the following:

Vandalism.

Condition of surface finishes.

Foreign objects.

Exposed foundations.

Sharp edges.

Missing parts and bolt covers.

Excessive wear of moving parts.

Tightness of nuts and bolts/fixings.

Check surfacing especially loose-fill areas, for depth, correct free space areas and any other foreign objects.

Check all bolt caps and covers are in place.

Check all pins are located correctly.

Check ropes for damage e.g. fraying.

N.B. Spare parts, accessories and touch up paint are available from the manufacturer/supplier.

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Operational Inspection - Every 4-6 weeks

This should be carried out every four to six weeks and is an inspection aimed at the stability and operation of equipment. Prior to assessing the equipment the condition of the ground needs to be checked. If the ground is prone to retaining water or flooding then extra attention needs to be taken when assessing for rotting and decay at ground level.

Check for the following:

In addition to the checks carried out during the visual inspection the following additions checks must be carried out.

Assess the structural integrity of the equipment paying attention to the welds, rungs, steps, timber condition etc.

Check all bolts are tight and all plastic caps are in place.

Check timber for signs of rotting, pay particular attention at ground surface level. Using a sharp probe or long screwdriver apply pressure at or just below ground/surface level around the full circumference of the timber post. Check for signs of any softening or if the probe enters the timber surface with minimal resistance.

If any softening is present or any posts are loose in their foundations you may deem it appropriate to close off the affected play equipment/area and contact your playground supplier/installer.

Check steel for corrosion, pay particular attention at ground/surface level.

Ensure platforms are free from trip hazards and protruding bolts.

Check equipment mechanisms and moving components have no potential contact or crush points with the user.

Check chains, bolts, D-shackles, swing bearings, seats, cables, trolley mechanism etc for excessive wear and replace if necessary

Check swings are tightly bolted up and free from vandalism.

Check swings moves freely on swing mechanism.

Check runway trolley mechanism and brake are operating correctly.

Check runway brake springs are operating correctly.

Check any ropes or cables are secure and not frayed. Pay particular attention to ropes with heavy footfall.

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Check height of any seats and adjust height accordingly if required.

Check any painted items for chips, vandalism and touch up if necessary.

N.B. Spare parts, accessories and touch up paint are available from the manufacturer/supplier.

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Annual Main Inspection - Yearly

This should be carried out at least every twelve months and is carried out to establish the overall level of safety of the equipment, foundations and surfaces. Special attention should be given to assess the effects of weather, presence of rotting or corrosion, and any change in the level of safety of the equipment as a result of repairs made, or of added or replaced components.

N.B. This type of inspection may require the equipment not to be used as some parts may need to be dismantled to inspect properly.

Check for the following:

In addition to the checks carried out during the visual and operational inspection the following additional checks must be carried out.

Check timber for signs of rotting, pay particular attention at ground surface level. Using a sharp probe or long screwdriver apply pressure at or just below ground/surface level around the full circumference of the timber post. Check for signs of any softening or if the probe enters the timber surface with minimal resistance.

Special attention should also be given to check timber swing top bars to ensure no signs of damage, rot or decay are present. It is also advised to ensure all bolt covers and caps are correctly fitted to prevent water from gathering in the drill holes.

Check timbers for cracks which exceed 8mm in width. Should any cracks be greater than 8mm in width the timber must be replaced by contacting your playground supplier/installer.

If any softening is present or any posts are loose in their foundations you may deem it appropriate to close off the affected play equipment/area and contact your playground supplier/installer.

Check steel for corrosion, pay particular attention at ground/surface level.

Ensure no items are loose in their foundations and are structurally sound.

Ensure all chains, cables, ropes and bolts are fastened securely and not damaged in any way.

Ensure no foundations are exposed and all safety surface is complete.

If in doubt contact the equipment supplier or manufacturer. The manufacturer's name and telephone number will be found on the identification plate on each item of equipment.

N.B. Spare parts, accessories and touch up paint are available from the manufacturer/supplier.

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Installation of Equipment

N.B. When installing equipment, the area should be fenced off whenever necessary to stop access to part-finished equipment. All tools, machinery should be locked up or taken away before the site if left unattended. No holes should be left open upon leaving the site. They should be filled in or suitably covered. We recommend a sign warning the public of possible dangers be placed in a suitable position.