

Vortex - QU91

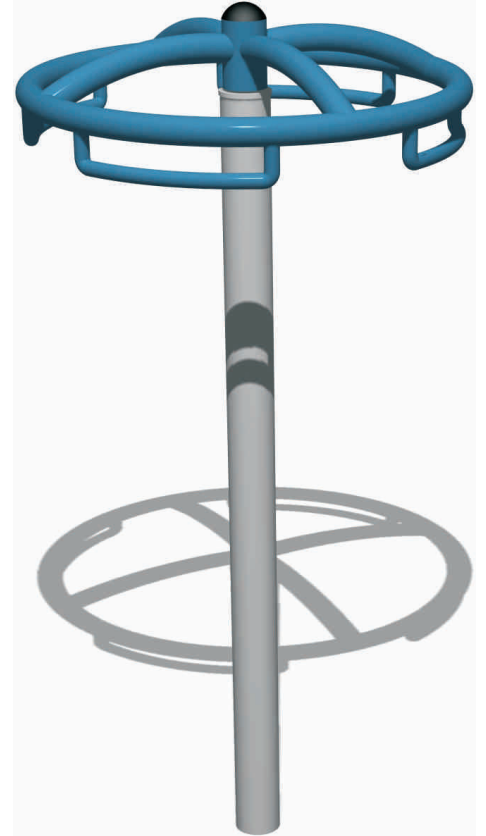
Steel sections are all mild steel to the relevant BS EN steel standards.

Fixings are mostly BZP, high tensile steel, hex head bolts with washers and Nyloc nuts.

Coatings

All steel equipment made by Play & Leisure is shotblasted to SA 2.5 before a 60-micron thick epoxy based zinc phosphate primer is applied and finally a 70 micron thick coating of polyester powder.

All Play & Leisure Ltd's equipment & surfacing complies to BS EN 1176 parts 1-10, BS EN 1177 and BS EN 15312. Equipment is guaranteed for 25 years against structural failure.



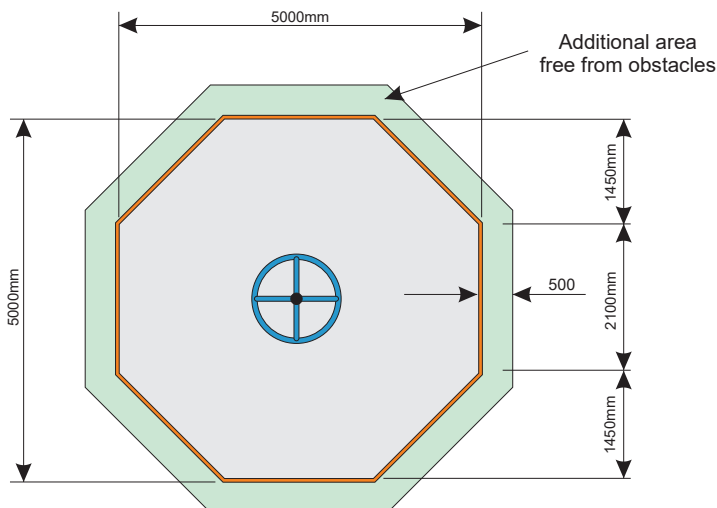
INSTALLATION INSTRUCTION

1. Excavate area for the surfacing as shown in either Fig 1 or Fig 2(not required for grass mat)
2. Excavate hole and lower Vortex into position and level in all directions. See Fig 3 or Fig 4 depending on surfacing required
3. Pour in 0.45m³ of low slump concrete and vibrate down with vibrating poker.
4. Re-check levels.

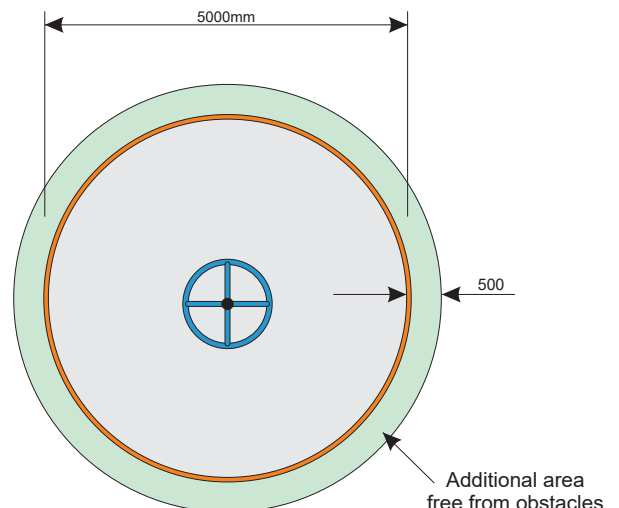
Do not leave unattended until satisfied the concrete has cured or the site is sufficiently secure.

On completion of the installation, a post-installation inspection should be carried out by a competent person to assess compliance with the relevant part(s) of BS EN 1176:2008.

Surfacing Dimensions

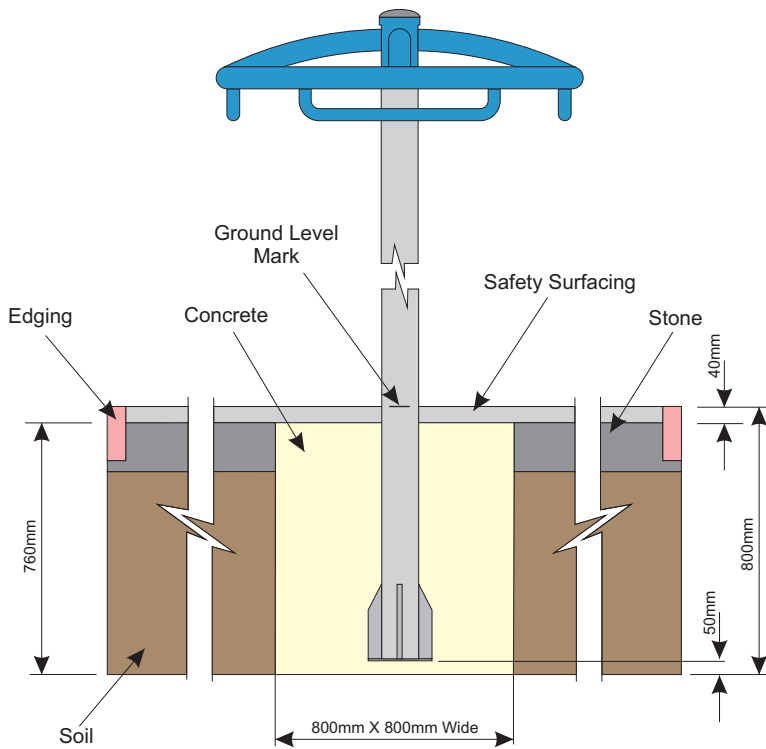


Hexagonal Base (fig 1)

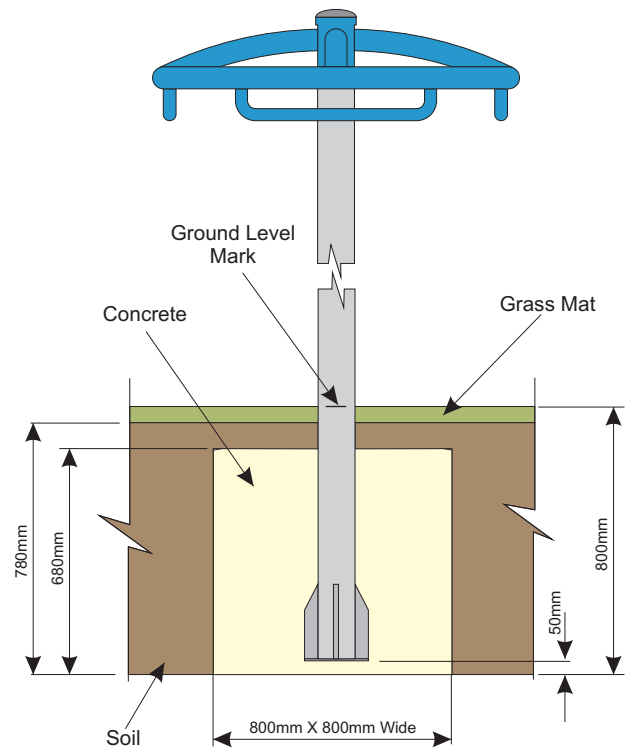


Circular Base (fig 2)

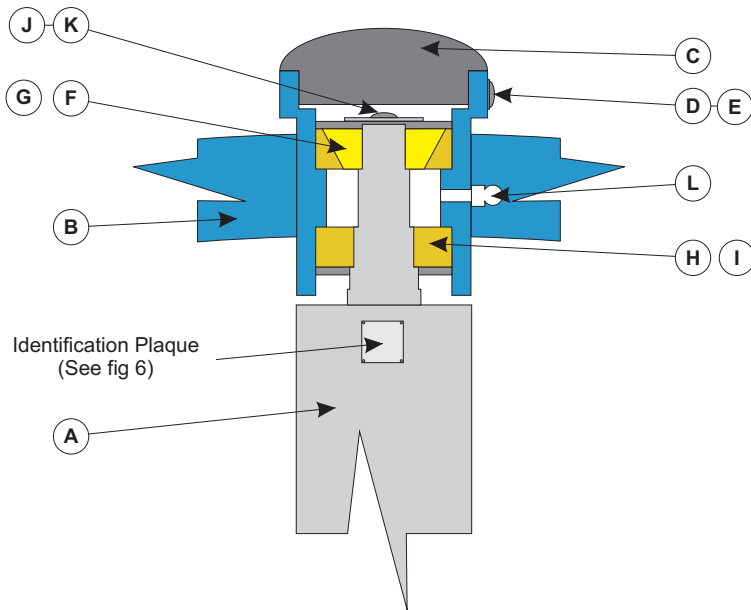
Foundation Detail



Wetpour/Tile Surfacing(fig 3)



Grass Mat Surfacing(fig 4)



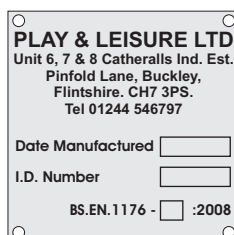
Bearing Assembly(fig 5)

Component List

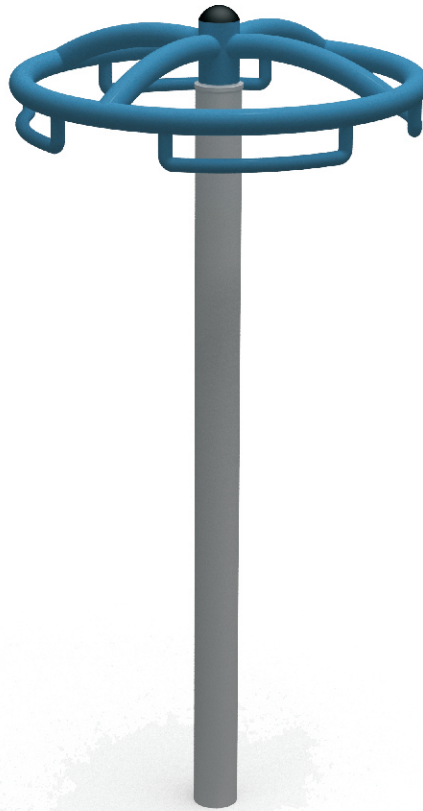
Ref	Main Parts	Qty
A	Main Post	1
B	Top Ring	1
C	Cap	1
D	M10 x 20mm Resistorx Bolt	1
E	M10 Steel Washer	1
F	Top Bearing	1
G	Top Dust Seal	1
H	Bottom Bearing	1
I	Bottom Dust Seal	1
J	M10 x 40mm Bolt	1
K	Washer	1
L	Grease Nipple	1

Please note : Items are pre-assembled upon delivery.

Play and Leisure hold a comprehensive range of spare parts in stock, which will normally be dispatched in 48 hours of request.



Identification Plaque(fig 6)

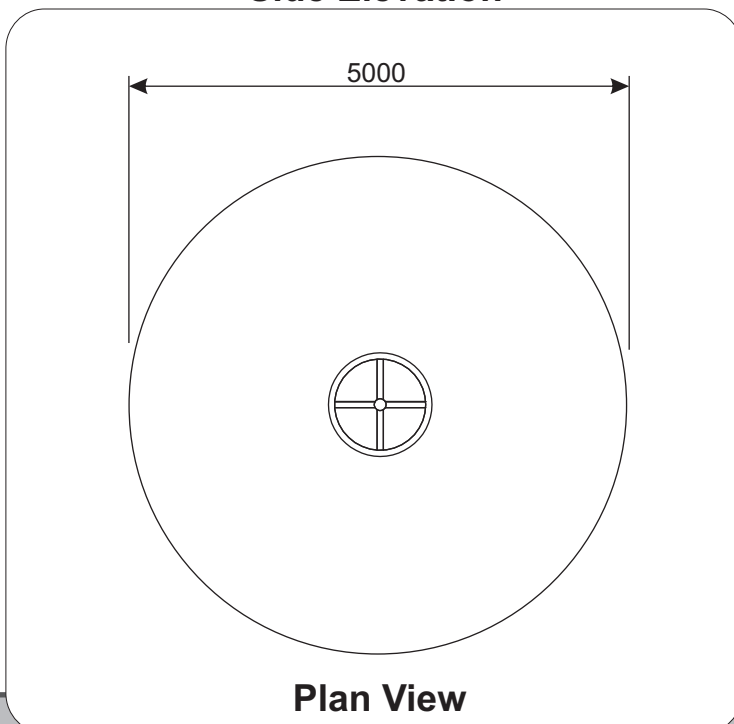


 All Play & Leisure's product range is fully compliant with **BS EN 1176:2008**

Technical AT-A-GLANCE

Product Code	QU91
Equipment Size	1000L x 1000W x 2200H
Minimum Space	5000 x 5000
Free Height of Fall	500
Safety Surface Area	20m ²

Side Elevation



Plan View



Vortex - QU91

Maintenance & Inspection

The Vortex should be inspected and maintained in accordance with the recommendations as detailed in BS EN 1176-7:2008

If any part of the equipment is found to be unsafe during an inspection and cannot be immediately rectified the equipment should be protected against further use.

Routine Visual Inspection.

Routine visual inspections are to be conducted to identify obvious hazards resulting from vandalism, use or weather conditions. e.g. Hazards such as broken parts or broken bottles.

Operational Inspection.

To reduce accidents the operator should ensure an appropriate routine maintenance schedule is established, implemented and maintained. Inspection shall be carried out on a monthly basis, although consideration should be taken regarding local conditions and usage.

During a operational inspection the following should be included:

- Tightening of fastenings.
- Re-painting and re-treatment of surfaces.
- Maintenance of any impact attenuating surfaces.
- Lubrication of bearings via grease nipple. See Fig 5. Care must be taken when greasing to avoid overfilling.
- Marking of equipment to signify loose fill finished surface levels.
- Cleaning.
- Removal of broken glass and other debris or contaminants.
- Restoring loose fills to the correct level.
- Maintenance of free space areas.

Annual Main Inspection (NOT EXCEEDING 12 MONTHS)

Inspection intended to establish the overall level of safety of equipment, foundation and playing surfaces.

- Effects of weather.
- Rotting or corrosion.
- A change in the level of safety of the equipment as a result of repairs made, or of added or replaced components

One Post Equipment Maintenance.

Special attention should be paid to the stability of the Vortex due to it being of a one post design.

Corrective Maintenance.

Corrective maintenance should include measures to correct defects, or to-establish the necessary levels of safety of the playground equipment and surfaces. Such measures should include:

- Replacement of fastenings.
- Welding or welding repairs.
- Replacement of worn or defective parts.
- Replacement of defective structural components.

Equipment Alterations.

Alterations to parts of the Vortex that could affect the essential safety of the equipment should only be carried out after consultation with Play and Leisure.

Equipment Identification

Information regarding the manufacturer, I.D. Number, year of manufacturer and the European Standard is displayed on a plaque at the base of the Vortex(see fig 5)

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