

I-OVAL

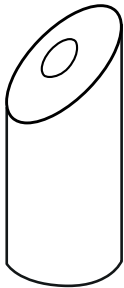
INSTALLATION INSTRUCTIONS
VERSION 2. August 2015.



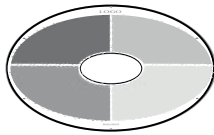
playtop®
SAFER SURFACING

street
INTERACTIVE SURFACING

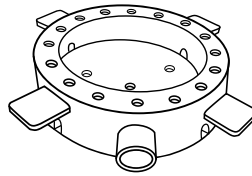
Component Overview (what you find in the box)



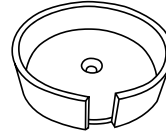
1 x Podium



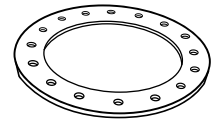
1 x Podium Console



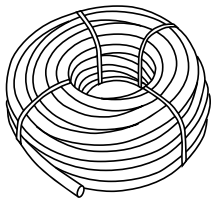
10 x Ground Housing



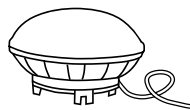
10 x Ground Housing Cup



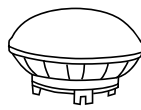
10 x Top Ring



1 x 50 m Plastic Tube
(ø: 28/34 mm)



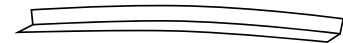
10 x Satellite



1 x Game Select
Satellite (ID '0')



1 x Cable for Game
Select Satellite (ID '0')



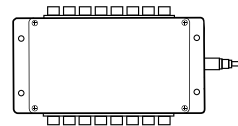
Optional!
1 x Aluminium Edgings kit



40 x Top Ring Screw
with Security Pin



30 x Adjustment Screw
(for Ground Housing)



1 x Connector Box



1 x IPSU



1 x Termination Plug



1 x 230 AC Cable
(EU + UK)



1 x Device Net Cable 33 m

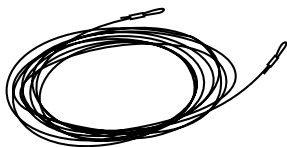


3 x Double Sided Tape

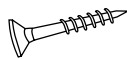


10 x Countersunk Screw
(M5 x 10 mm)

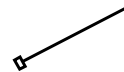
Necessary Tools and Items (to be provided locally)



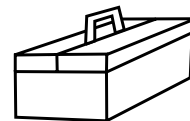
1 x Thin Steel Cable (12 m)



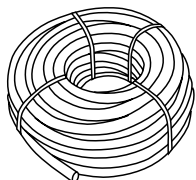
10 x Fixing Screw
(M5 x 30 mm)



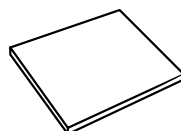
1 x Bag of Plastic Cable Ties



1 x Cordless Drill/Screw Driver



1 x Plastic Tube ø50 mm
for external cables
(up to 30 metres length)



10 x Plywood Panels
250 x 250 x 5 mm

- 1 x Hammer
- 1 x Fine Cutter
- 1 x Spirit Level
- 1 x Tape Measure (25 m)
- 1 x Roll of String
- 1 x Duct Tape
- 1 x Ruler 30 cm
- 1 x Drill Bit (size 25)
(for Top Ring Screw
with Security Pin)

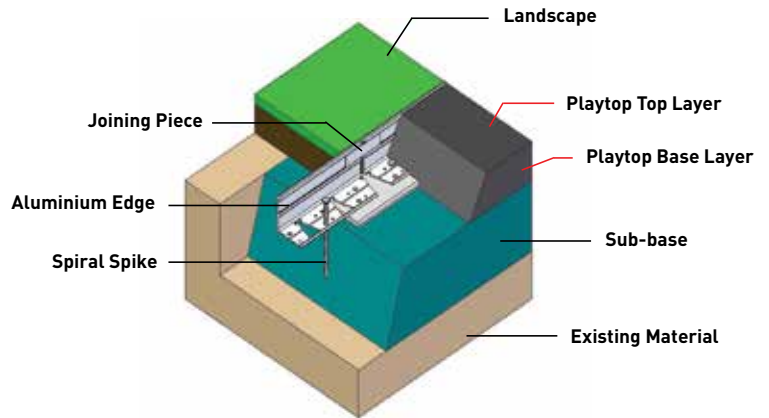
Before You Start...

1. Make sure that the substructure is completely even and in accordance with the Substructure Specifications defined by Playtop (see extract below).

Requirements for substructure for the installation of Playtop Street are identical to those of a standard Playtop wet pour installation.

2. Confirm the correct positioning of the Playtop Street.

3. Seal off the working area with proper fencing preventing passers-by from accidentally entering the work site. Make sure to properly cover up any existing materials, surfacing and or objects on site in order to protect them from binder stains.



TECHNICAL DATA SHEET 02 Substructure Specifications

This section gives basic details of substructure specifications - we can provide more detail on request.

Existing Hard Surfaces

Playtop can be laid on most existing hard surfaces of concrete, bituminous macadam or asphalt in sound condition. Provided the surface is firm and even, it can usually be treated to achieve a suitable substructure. However, to avoid problems, please always refer to us for approval. Note that the finished surface will only drain freely if the existing hard surface is porous. Where there is existing play equipment on the site - especially moving equipment such as swings or carousels - the ground clearance under it must usually be maintained. This may mean raising the equipment or lowering the existing surface to allow for the thickness of **Playtop**.

New Construction

An important cost advantage of Playtop is that the very strong porous-rubber surface can usually be laid directly onto a dynamic (crushed-stone) foundation layer, without the considerable extra expense of an engineered structural layer. A structural layer is needed only when the thickness of the rubber is **20mm**, for example on run-about areas of a playground or under low-level play equipment. But it may be cheaper to increase rubber thickness to **40mm** to avoid building a structural layer (see Section 1).

Foundation Layer

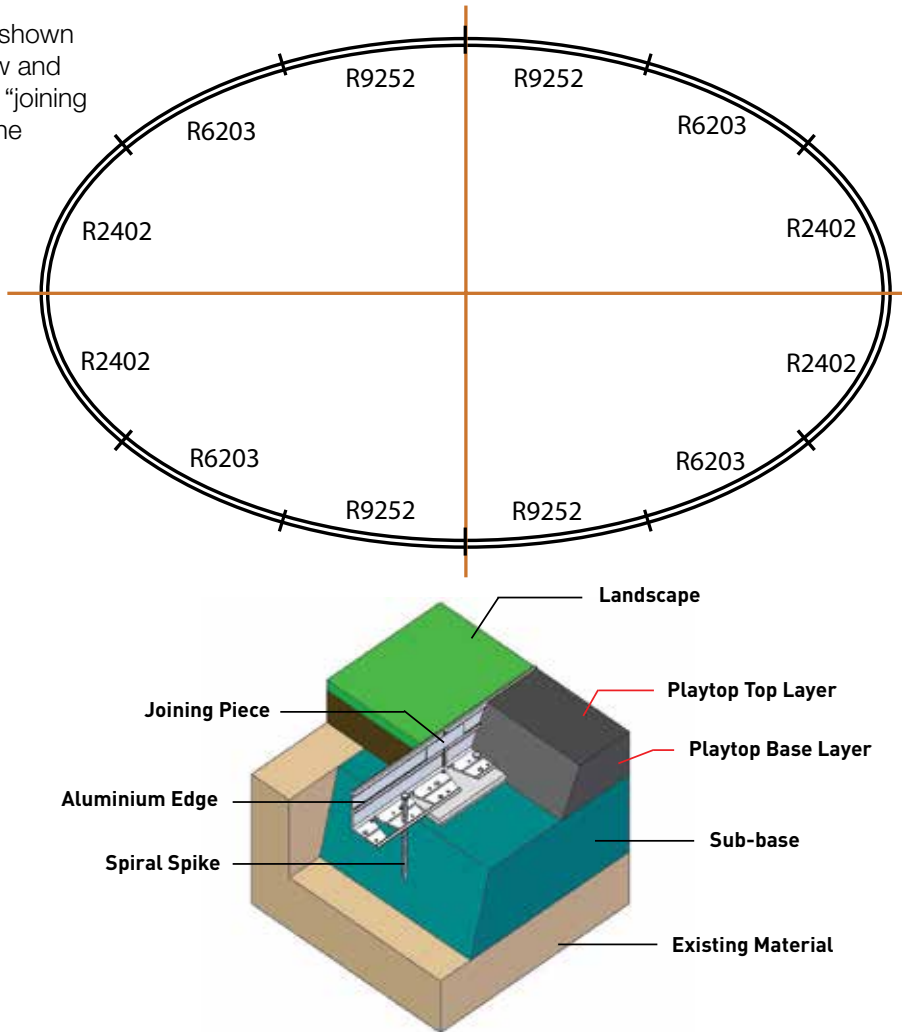
The aggregate used to construct the foundation layer should be graded crushed rock, compacted and regulated to a finished thickness to suit site conditions. The foundation layer should be laid with local deviations no greater than **10mm** under a **3 metre** straight edge in any direction. This specification applies both to foundation layers for direct application of **Playtop** and where there is to be an intervening structural layer.

Installation of Aluminium Edging

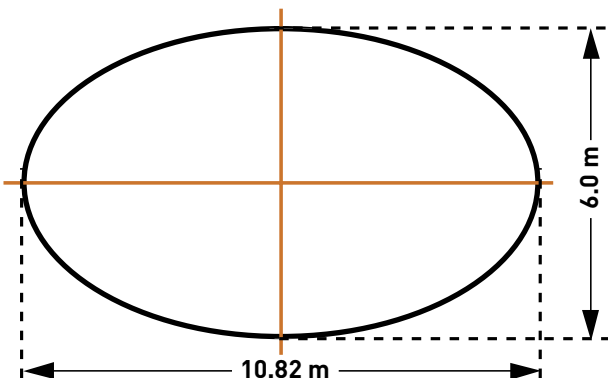
Only follow these instructions when you are installing the Playtop Street Kit version **that includes** pre-bent aluminium edgings.

Assembly

Join the sections as shown on the drawing below and connect them with a "joining piece" as shown in the illustration.



Control Dimensions



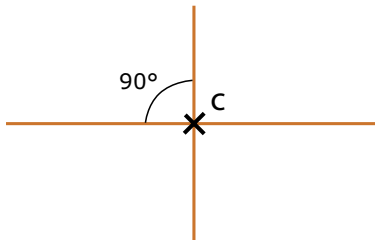
Fix each section with spiral spikes.



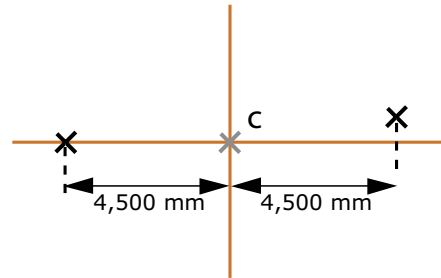
How to Set Out Playtop Street

Only follow these instructions if you are installing the Playtop Street Kit version **that does not include** pre-bent aluminium edgings.

1. Identify centre of Playtop Street using string.

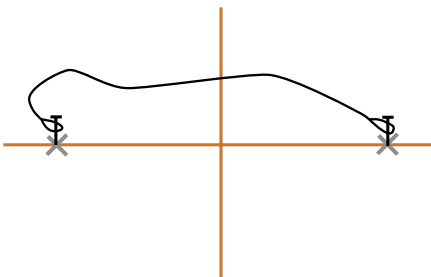


2. Measure 4,500 mm to each side of centre in a straight line. Hammer a large nail in ground.

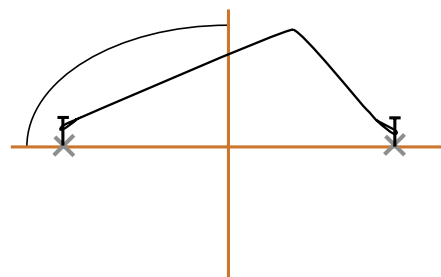


3. Make an "eye" in each end of the thin steel cable. The total length of the cable should be 1,0820 mm including cable eyes.

Place the cable eyes over each nail.



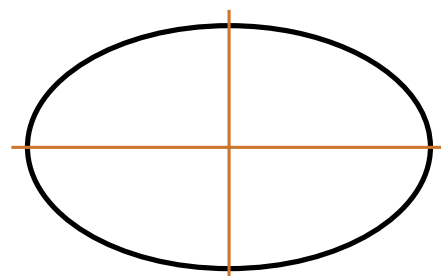
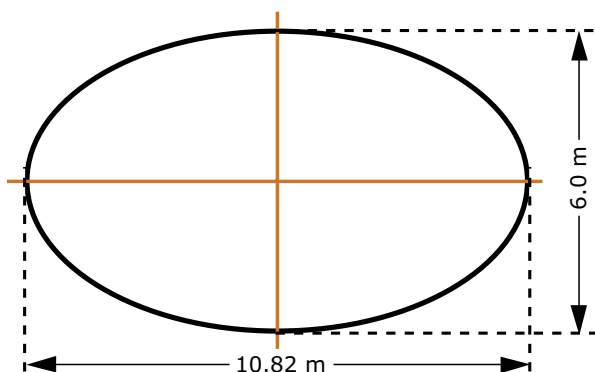
4. Stretch steel cable to its limit and draw a line with a long nail until oval is completed.



5. When oval is complete spray the shape in color. **Check dimensions!**

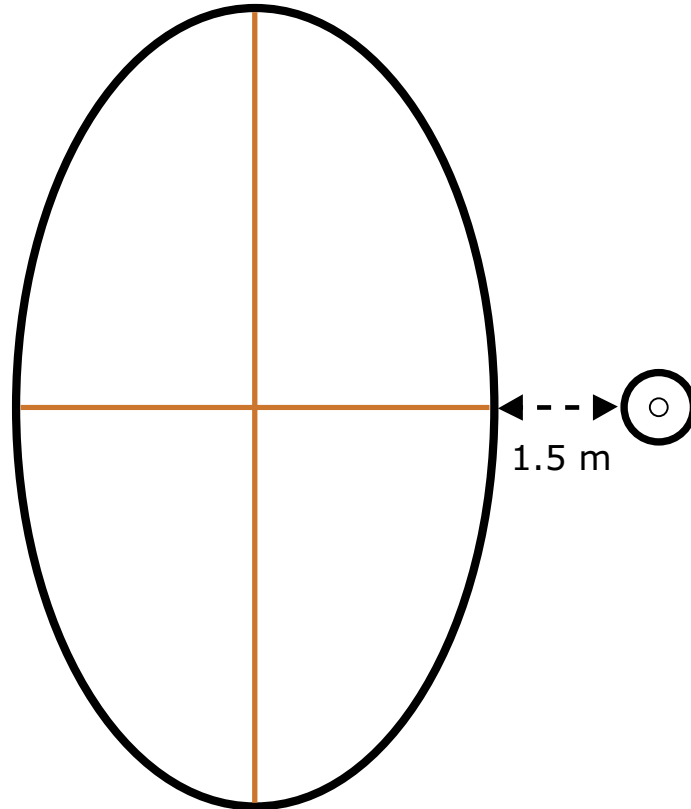
6. Install edging of 65 mm in height on the sprayed line.

Control Dimensions

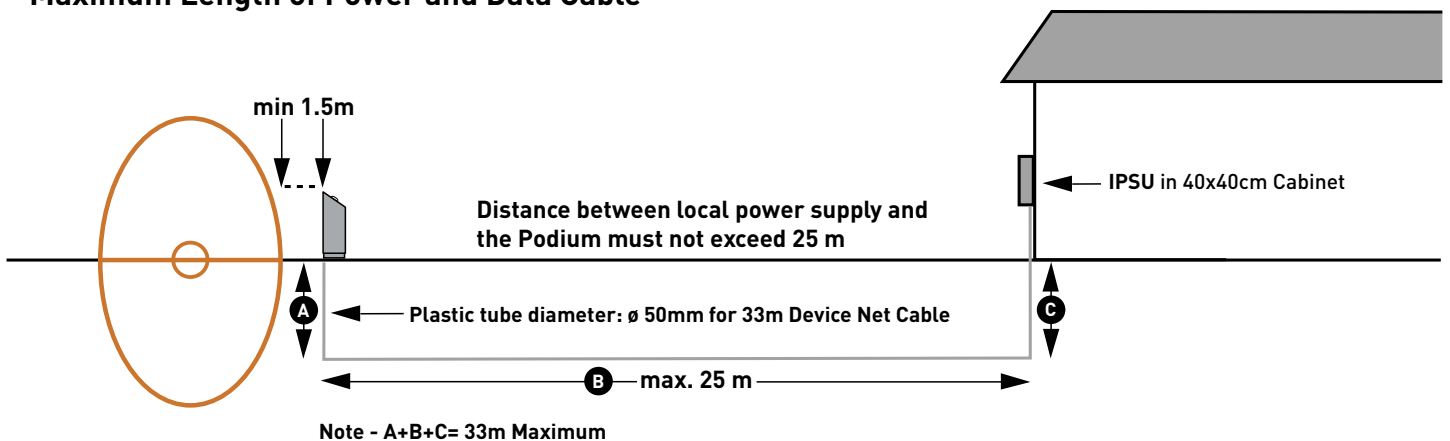


Installation of Podium

The podium is installed on the side of the Playtop Street that is closest to the local power source and must be located exactly on the centre line, 1.5 metres from the edge of the Playtop Street. Installation of the podium into a bed of concrete is required.



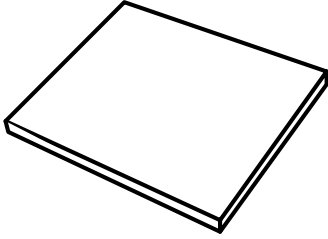
Maximum Length of Power and Data Cable



IMPORTANT - DO NOT CONNECT THE POWER AT THIS POINT!



Positioning for Ground Housing

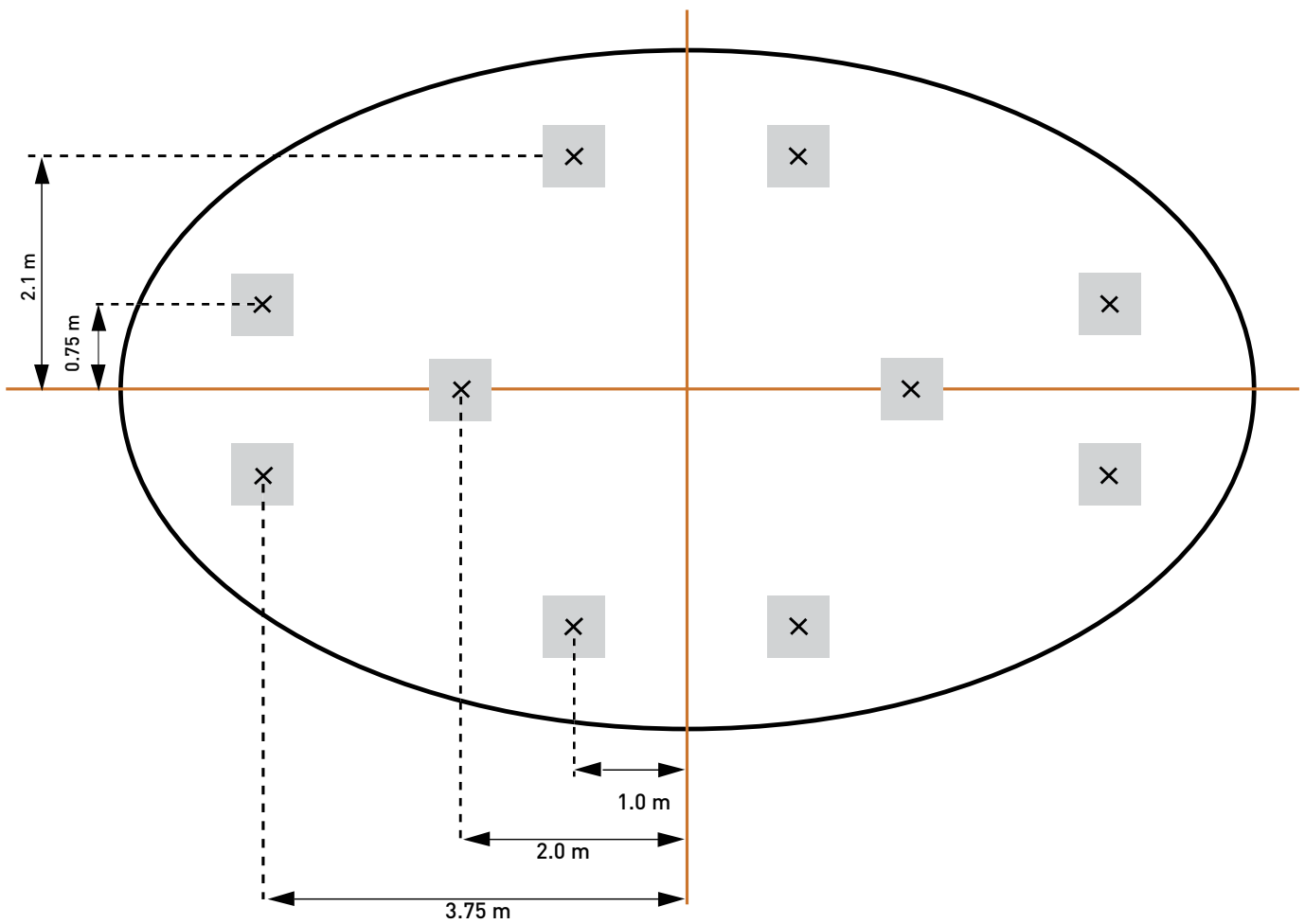


Plywood Panel - 250 x 250 mm



Podium

Position the Podium so the highest end is closest to the Playtop Street area.

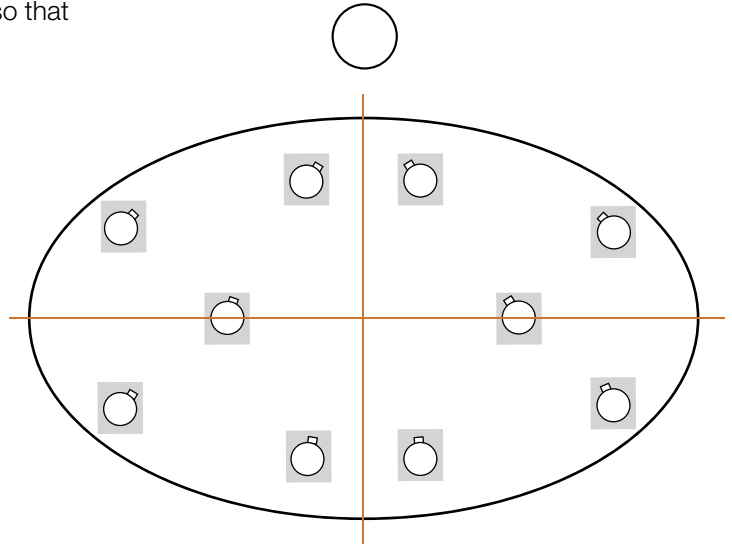
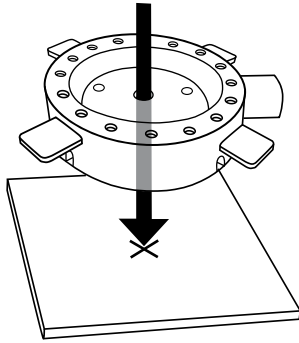


Distribute plywood panels within the Playtop Street area as shown on the illustration above, and mark the position with 'X' on the plywood panels.

Ensure that the panels rest firmly on the ground and do not move easily.

Ground House

1. Place the ground housing on the plywood panels, so that ground housing centre is located on 'X'.

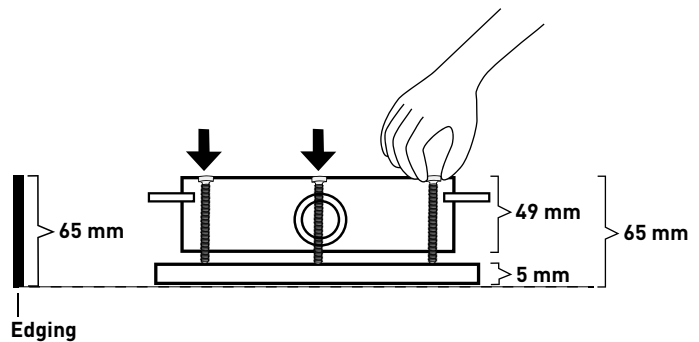


IMPORTANT - All ground housing mouths must point towards the Podium.

2. Adjust screws by hand to make the ground housing completely level.

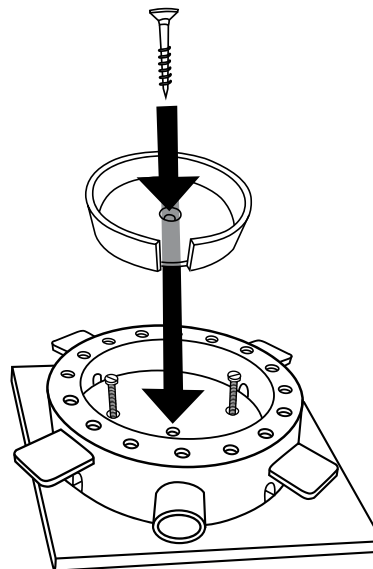
Screws are resting on plywood panel.

Use adjustment screws for leveling and for ensuring precise height of 65 mm from ground to top of ground housing (including plywood panel).



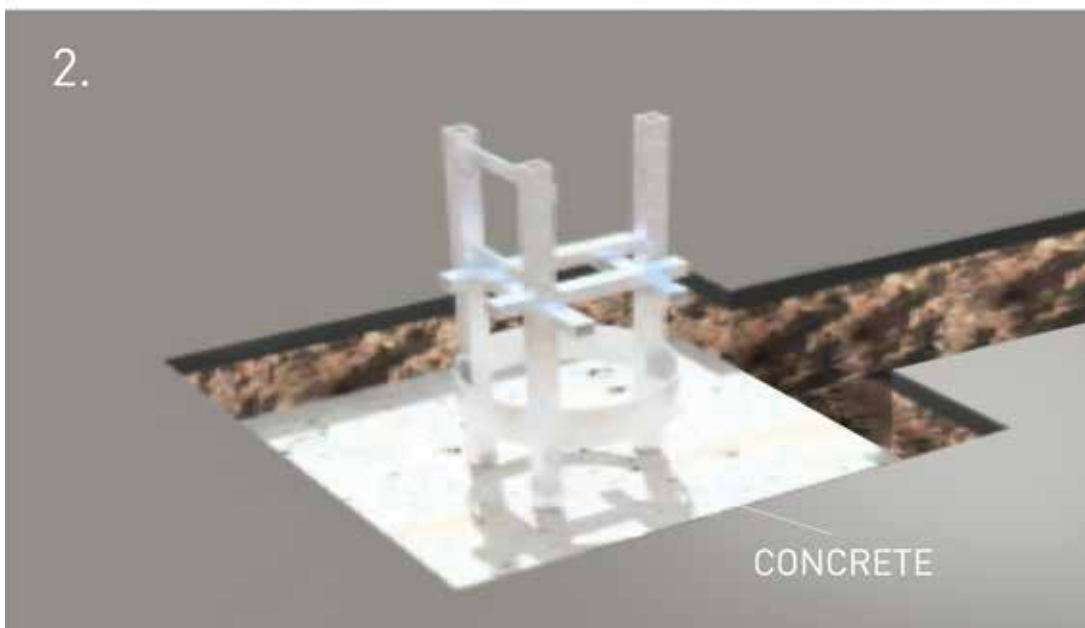
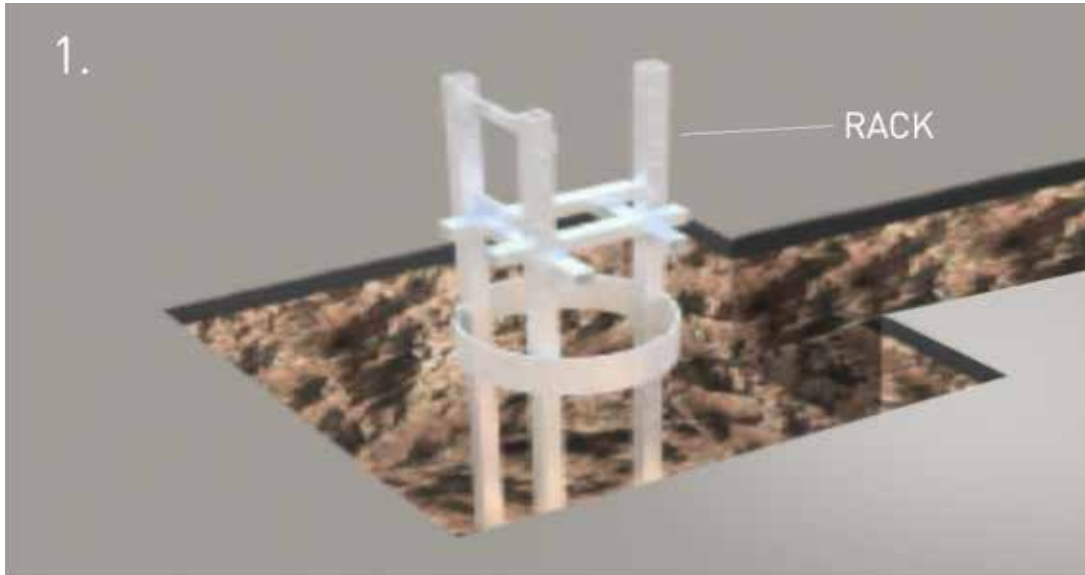
3. Once leveled, insert ground housing cup so that the Cup opening points towards the ground housing mouth and fix with fixing screw. (M5 x 30 mm)

Make sure that all ground housings are leveled equally.



Additional Recommendation When Installing the Podium

In order to avoid humidity escalating from the ground and corroding the pins please install the play console as follows:

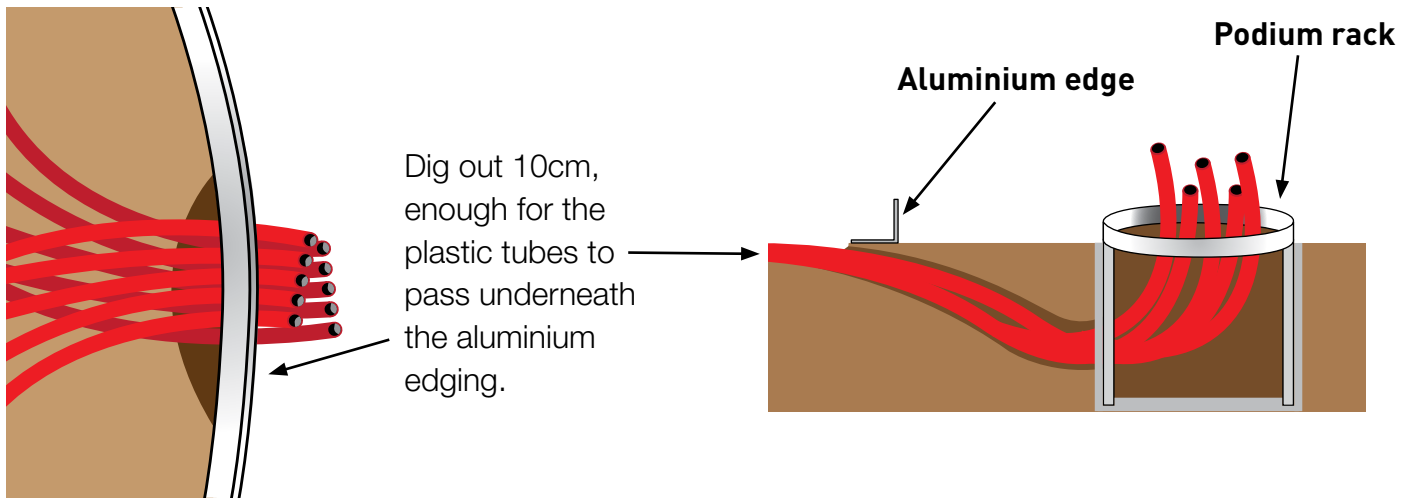
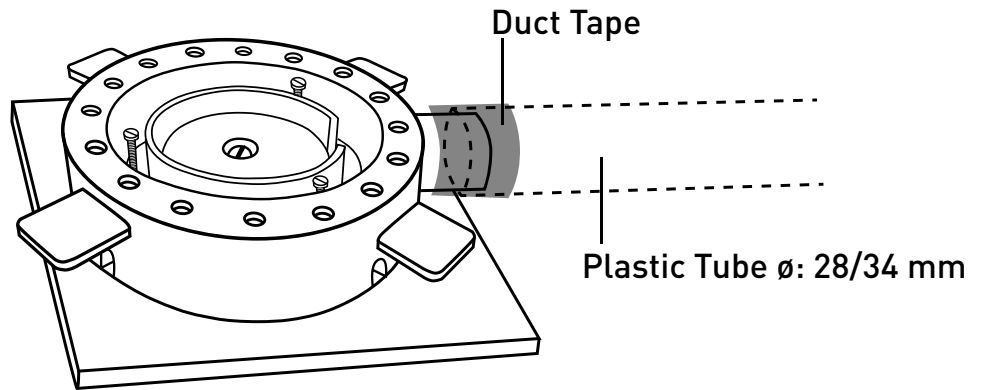
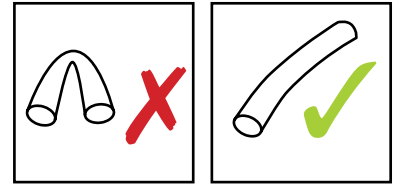


IMPORTANT - To avoid moisture from the ground from causing damage to the electronics, seal off the electronics from the ground using concrete.

Plastic Tubes

Install plastic tubes with draw string from ground housing mouth to steel housing.

**IMPORTANT -
DO NOT BEND
THE TUBES.**

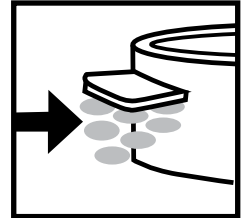


Surfacing

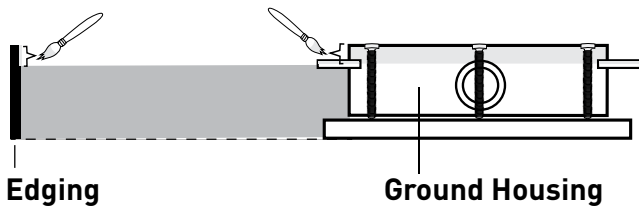
1. Base Layer



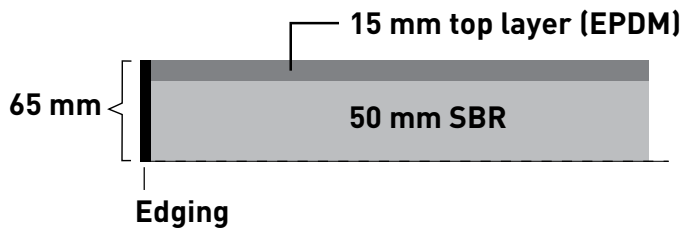
IMPORTANT -
Make sure that the SBR is properly tucked in under the "flaps" of the ground housing.
Avoid rubber granules going into the ground housing.



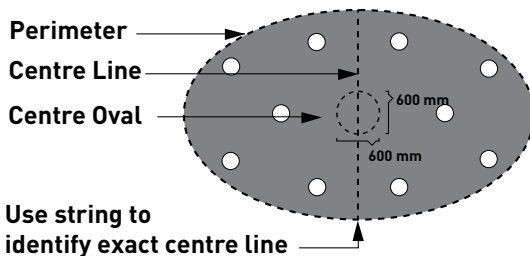
2. Once base layer has cured paint all inner edges with binder before applying top layer.



3. Top Layer



4. Cut Out for Lines (60 mm)

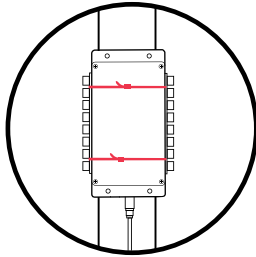


5. Fill in the cut-outs with a contrasting coloured Playtop EPDM.



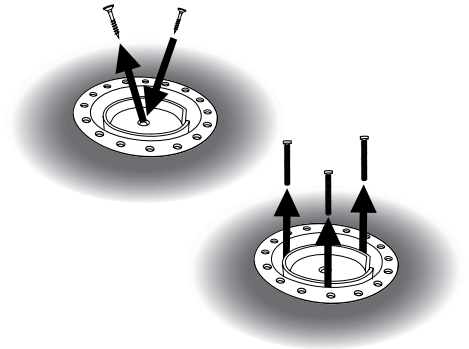
Connector Box, Cables & Positioning of Satellites

- 1.** Strap the connector box onto the Podium, by using of plastic cable ties.

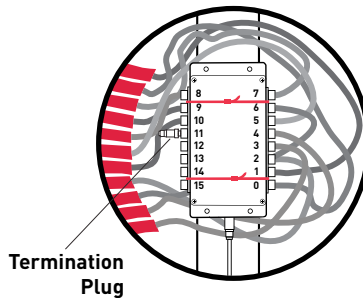


- 2.** Remove fixing screws and replace with countersunk screw (M5 x 10 mm).

Then remove the three adjustment screws.



- 3.** Identify the location of each satellite by matching its number with the number on the drawing to the right. Pull the satellite cable from the ground housing (through the plastic tube under the rubber surface) to the Podium and connect to the connector box in the correct socket.



Match the numbers on the satellites with the correct numbers on the connector box!

Install termination plug in **socket no.11.**

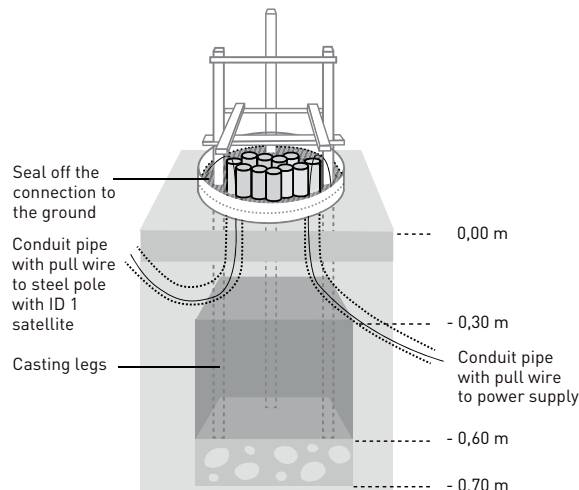
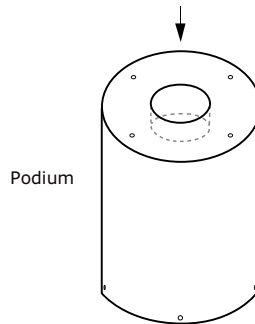
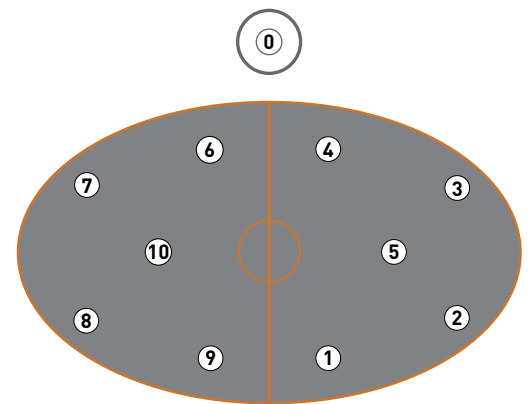


- 4.** Install a top ring onto each of the 10 satellites and fix each ring with four top ring screws.



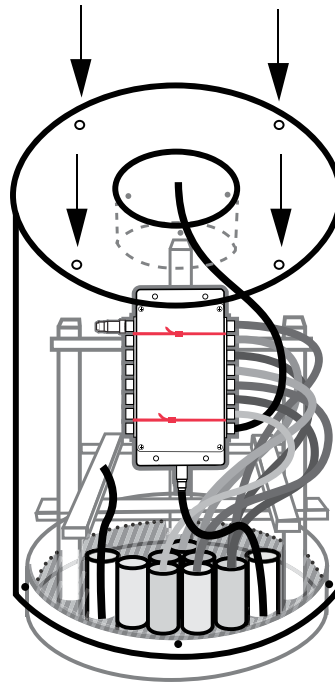
- 5.** Before you install the top cover make sure that all the plastic tubes are placed closely together.

Reinstall the top cover of the Podium and fasten it at the bottom with four screws.



Mounting the Circle Sign

1. Loosen the top cover by the 4 screws. Remember what is top and bottom of the top cover! It is important to face it correctly when mounting it again!
2. Mount dual adhesive tape to the backside of the sign.
3. Draw the cable through the top cover and sign center hole and connect it to the Game Select satellite in socket '0' on the connector box.
4. Fasten the satellite to the top cover with 3 screws.
5. Before sticking the sign and top cover together, the top cover needs to be fastened to the Podium again with the 4 screws.
6. Carefully adjust the sign to the top cover, check with the select game mode that it is correctly placed before applying pressure to the sign.



TIP - Draw a small mark on what is top and bottom of the top cover, for correct remounting.

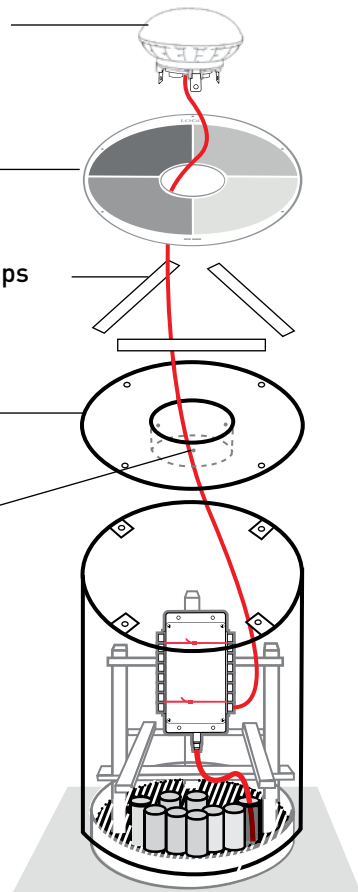
Game Select Satellite (ID '0')

Sign

Double sided tape strips

Top cover

Holes for fastening the Game Select Satellite (ID '0')



IMPORTANT - Adjusting the sign. Please check this at the end of installation when power is on. The sign needs to fit to the toggling colors of the satellite.





Connection to Power Source & Final Testing

Connection to Power Source

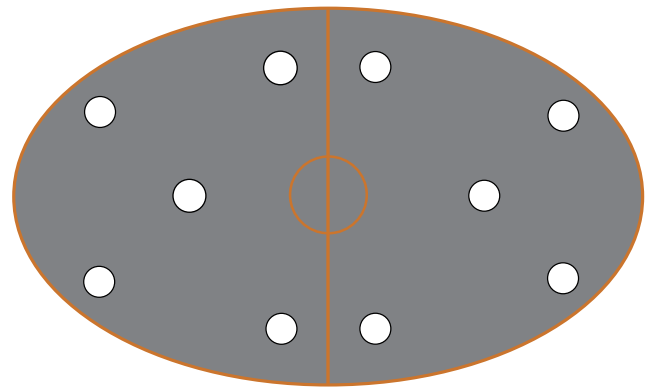
Playtop Street is now ready to be powered. Playtop Street is powered by 24v DC.

IMPORTANT - CONNECTION TO THE ELECTRICITY SUPPLY MUST ALWAYS BE CARRIED OUT BY AN AUTHORIZED ELECTRICIAN AND IN ACCORDANCE WITH LOCAL LEGISLATION.

Final Testing

The correct position of the satellites is crucial to Playtop Street games functioning correctly. Therefore it is of utmost importance that a test is carried out prior to leaving the site. The best way of ensuring that the Playtop Street is working correctly is by playing each of the four standard games.

For instructions on "How to Play", please visit www.playtopstreet.com where you will find details on how to play each of the games.



Form 127. Version 2



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