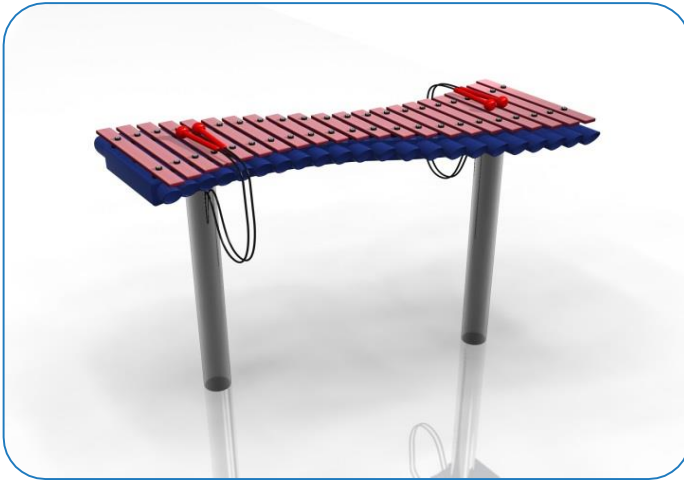


# Installation Instructions

## Ground Fixed

Duo  
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Weight of heaviest part **14kg** (Duo)

1. Attach the steel legs to the base of the instrument with the M8 Nyloc Nuts and 2 part security caps. **(1.1)** (See Assembly Guide)

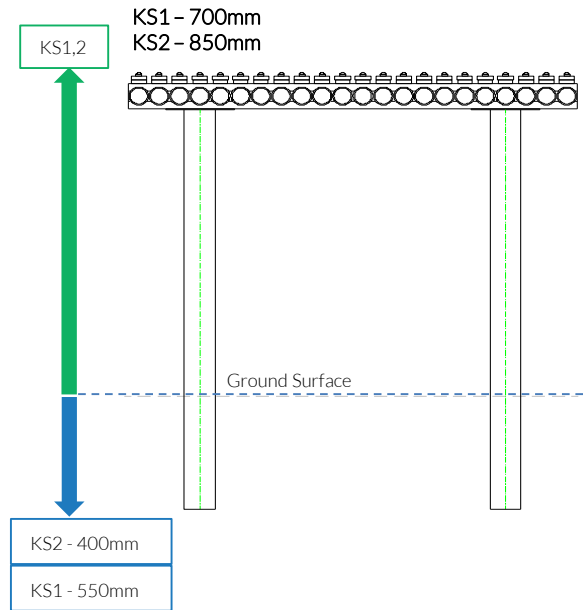
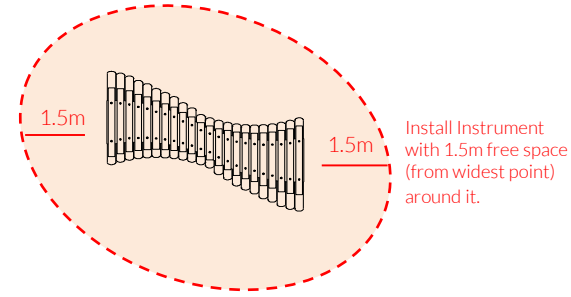
2. Attach Ground Fixing posts to legs **(1.2)** (See Ground Fix Post Installation Sheet)

3. Excavate **2 holes** for the Steel legs **250mm diameter** by **400-550mm deep** depending on Key stage, in desired location upon decision from customer.

4. Locate (lower) legs into holes making sure they are vertical and level prior to concreting in place.

5. Once happy with location of the Instrument, **fill** holes using rapid hardening **concrete**. Be sure to compact concrete around legs and leave to dry according to manufactures guidelines.

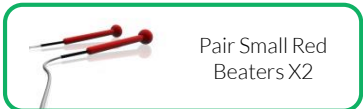
6. Attach the 1 pair of beater to the saddle strap on the leg. **(1.3)**



### Instrument Components:

- x8  
M8 Nyloc Nut
- x4  
M6x20 Security Screw
- x8  
2 Part Cover Cap
- x2  
M6 Saddle Strap

Metric Conversion:  
250mm/ 10"  
400mm/ 15 3/4"  
550mm/ 21 21/32"  
700mm/ 27 9/16"  
850mm/ 33 15/32"  
1.5m/ 59"



### Ground Fix Components:



- x4
- x8

28 Kg

# Assembly Guide PDDUO



Tools:

-  x1
-  x1

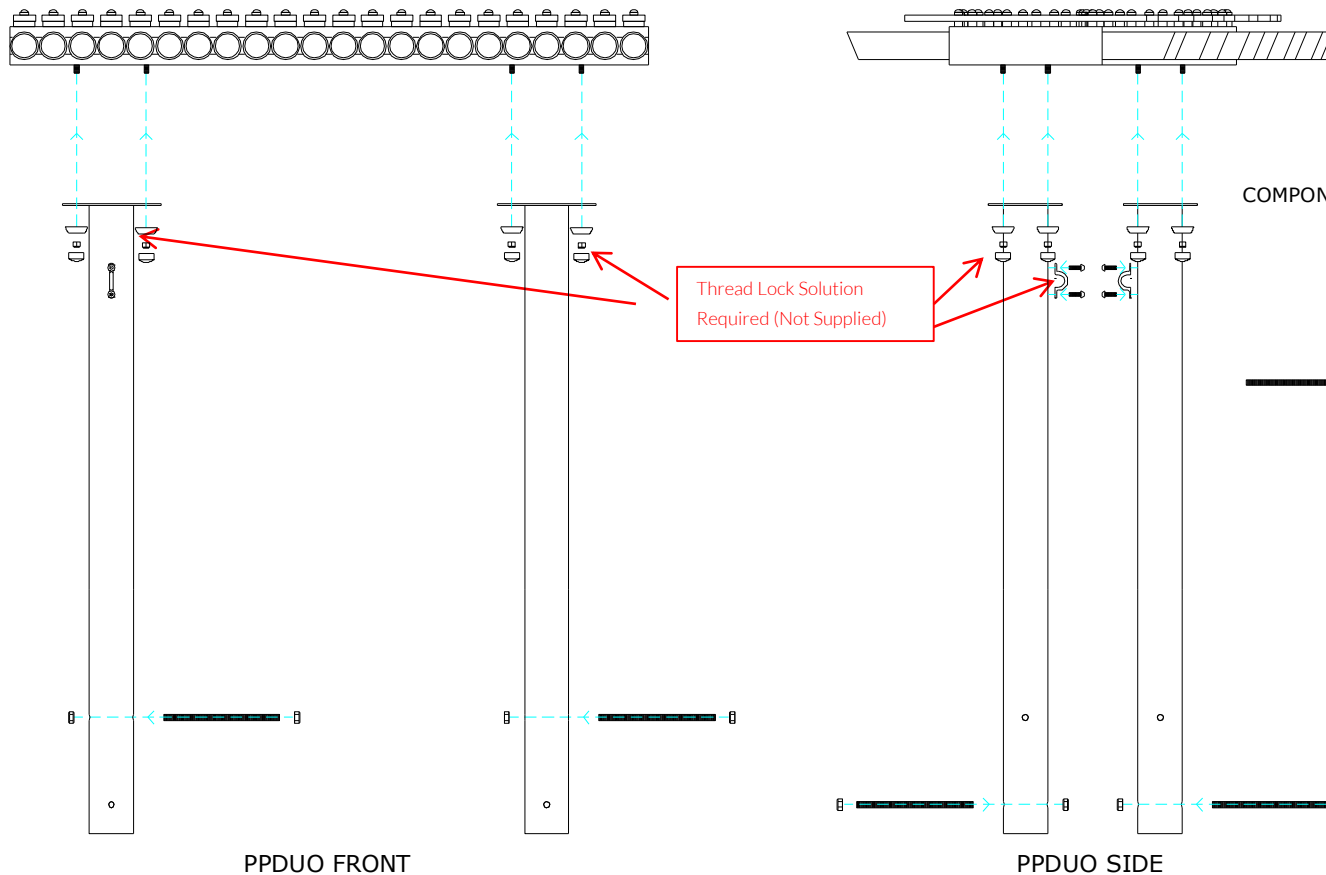
## Ground Fixed

Duo  
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### Instrument Components:

-  x8
- M8 Nyloc Nut
-  x4
- M6x20 Security Screw
-  x8
- 2 Part Cover Cap
-  x2
- Cap
-  x2
- M6 Saddle Strap




### COMPONENTS LIST:

-  2 Part Cover Cap X8
-  M8 Nyloc nut X8
-  M10 Nut X8
-  M10x200 Threaded Bar X4
-  Saddle Strap X2
-  M6x20 Pin torx X4

Thread Lock Solution  
Required (Not Supplied)



 Pair Small Red Beaters X2

### Ground Fix Components:

-  x4
- M10x200 Bolt
-  x8
- M10 Nut

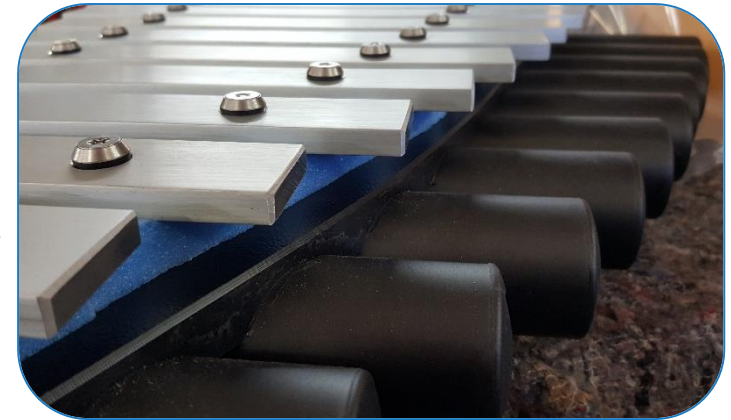
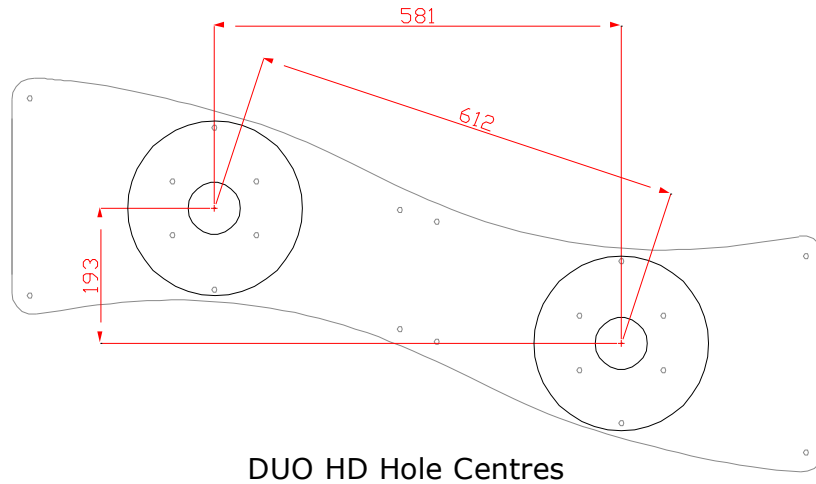
28 Kg

# Ground Fix Post Installation

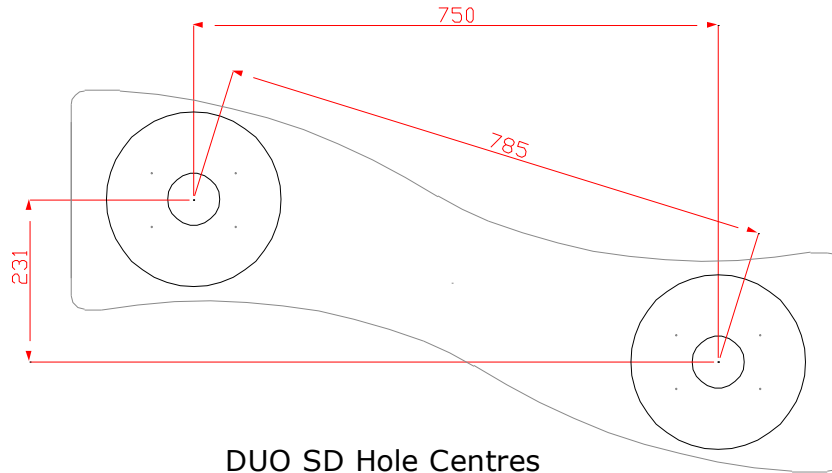
Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surface see Part 7 of BS EN 1176.



Ground Fixed  
Duo  
Page 3 of 4



Black HDPE and Aluminium Body



ABS Painted Body

Components:

 x4  
M10x200 Bolt

 x8  
M10 Nut

Metric Conversion:  
193mm/ 7 19/32"  
231mm/ 9 3/32"  
581mm/ 22 7/8"  
612mm/ 24 3/32"  
750mm/ 29 17/32"  
785mm/ 30 29/32"



MADE IN BRITAIN

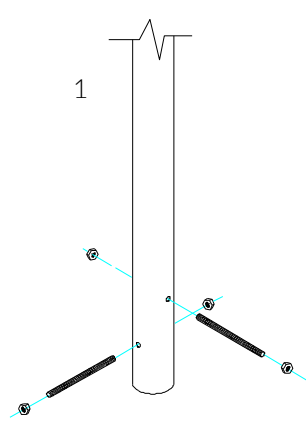
BSEN 1176

# Ground Fix Post Installation

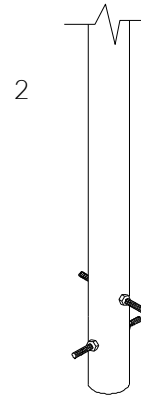
Foundations should not present a hazard. These foundations are recommended as a guide, for more information on foundation details for various surface see Part 7 of BS EN 1176.

## Ground Fixed

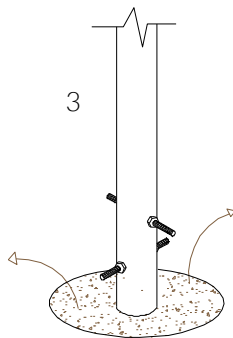
Duo  
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1  
Insert M10x 200 Threaded bar into pre drilled holes in Ground Fixing Post

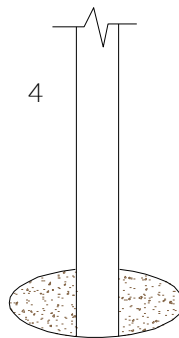


2  
Fix M10x 200 Threaded bar in place using M10 Nuts

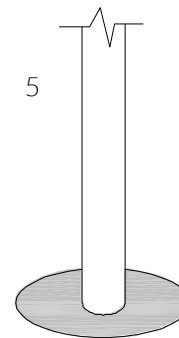


3  
Excavate 2 holes with a 250mm diameter tapering down to 350mm diameter and 450mm depth

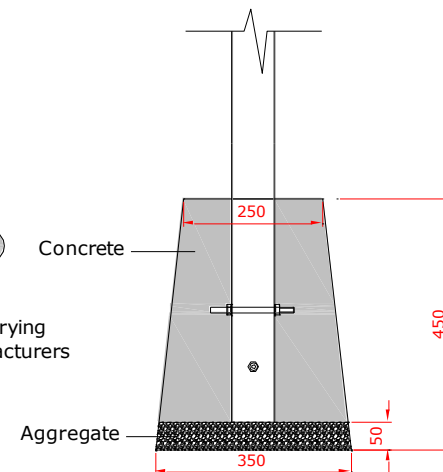
400mm min depth



4  
Compact base of hole with 50mm of aggregate. Lower ground Fix post attached to instrument into hole (check instrument straight and level before filling with concrete)



5  
Fix hole with fast drying concrete to manufacturers specifications.



Duplicate points 1-5. Duo requires 2 Ground Fix Posts

### Components:

-  x4  
M10x200 Bolt
-  x8  
M10 Nut

Metric Conversion:  
50mm/ 2"  
250mm/ 10"  
350mm/ 14"  
400mm/ 16"  
450mm/ 18"

