

aircharge[®]

How To:
Generic Contractor's
Installation Guide

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TOOLS REQUIRED



80mm Hole Saw &
Arbor



Tape Measure
(5M min.)



10mm Drill Bit



Power Drill



18mm Drill Bit



Masking Tape



Allen Key

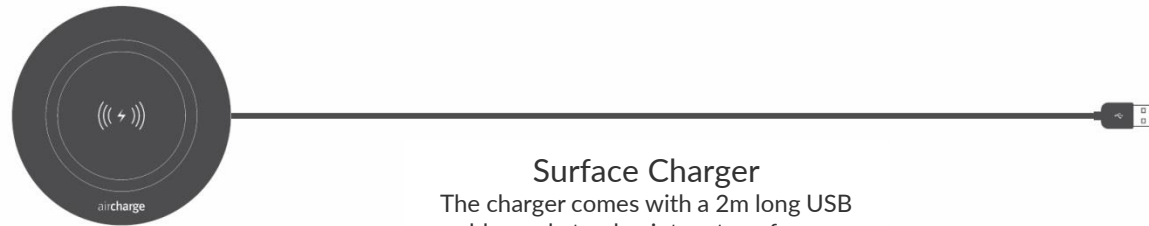


Pencil



Airbridge Installation
Template

SURFACE CHARGER COMPONENTS



Surface Charger

The charger comes with a 2m long USB cable ready to plug into a transformer, computer or hub



Steel Plate

The plate clamps the charger to the desk



Wood Screws

For added security the base plate can be fixed to the desk using the wood screws provided

Bolts

8 different length bolts. Secure your surface charger to a range of work top thicknesses (18mm – 50mm)



Allen Key

To tighten the bolts



Cable Clips

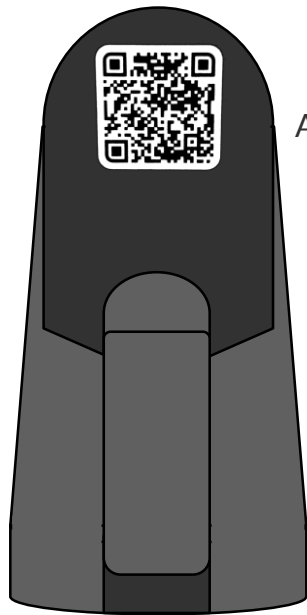
Adhesive cable clips hold the cable to the underside of the desk ensuring everything is kept tidy (screw-in clips can also be provided)



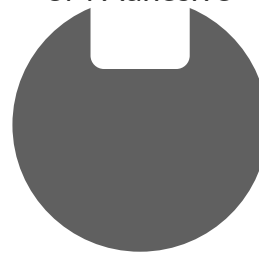
Spacers

Spacers may need to be used with the bolt for certain desk thicknesses

AIRBRIDGE COMPONENTS



Airbridge



3M Adhesive



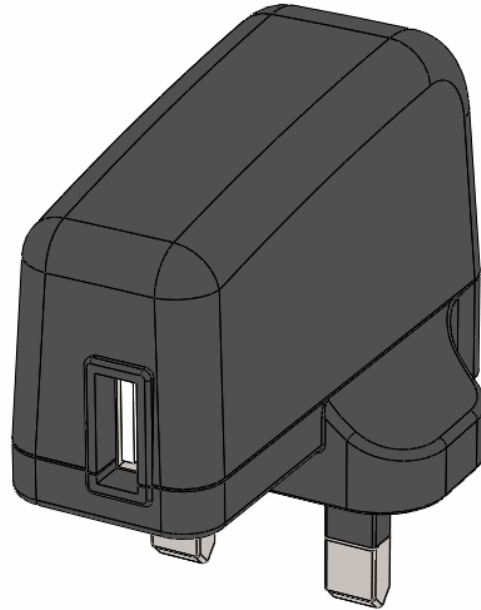
Orb with Pin

4-PORT USB CHARGING HUB

4-Port USB Charging Hub QC3.0
Input: 100-240V, 50/60Hz
Output: DC 5V, 1500mA USB



SURFACE CHARGER POWER SUPPLY



UK USB PLUG

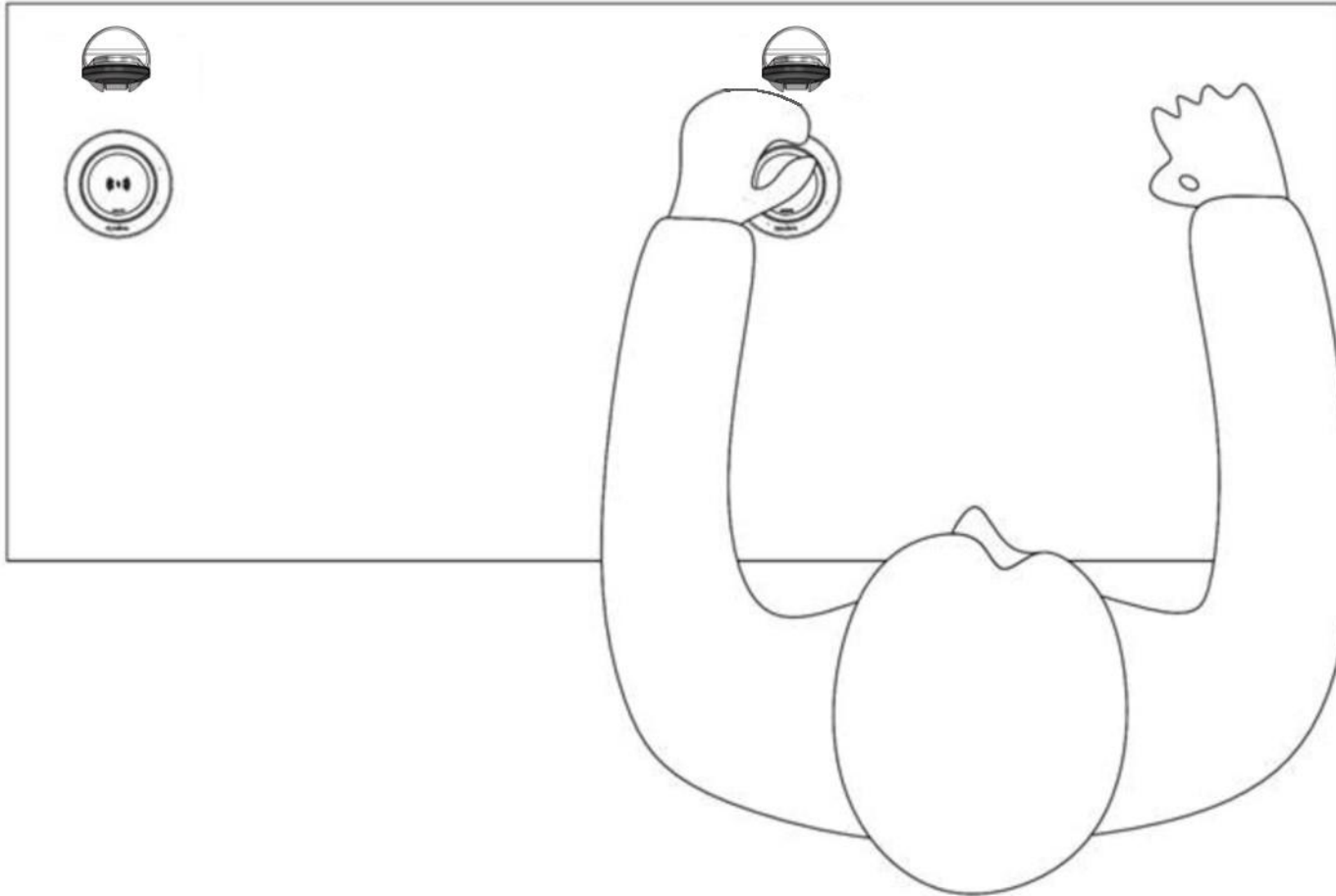
INPUT: 100-240V, 50/60HZ, 500mA

OUTPUT: DC 5V, 1500mA

TABLE POSITIONING: SURFACE CHARGER AND AIRBRIDGE

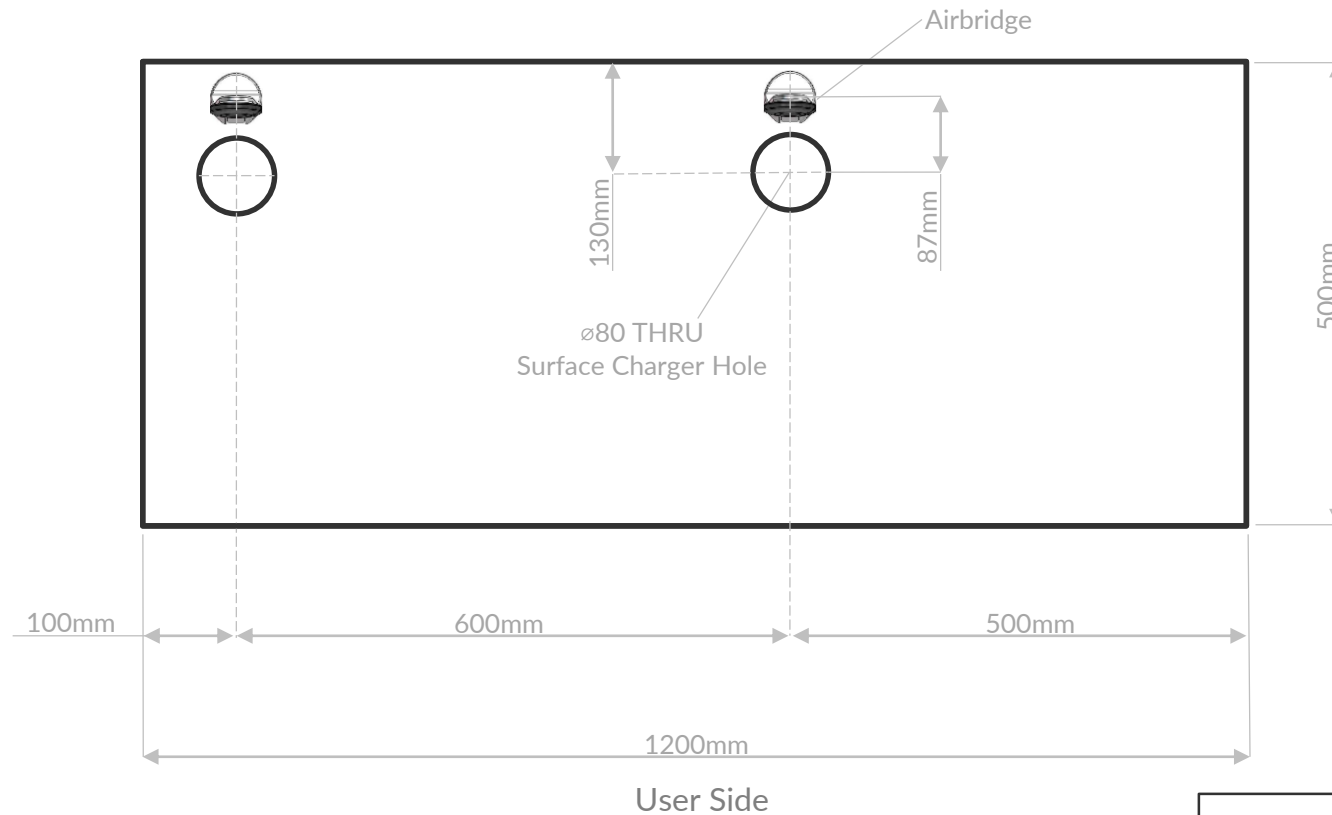
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GENERAL ARRANGEMENT



Aircharge units can be either left or right handed depending on customer preference

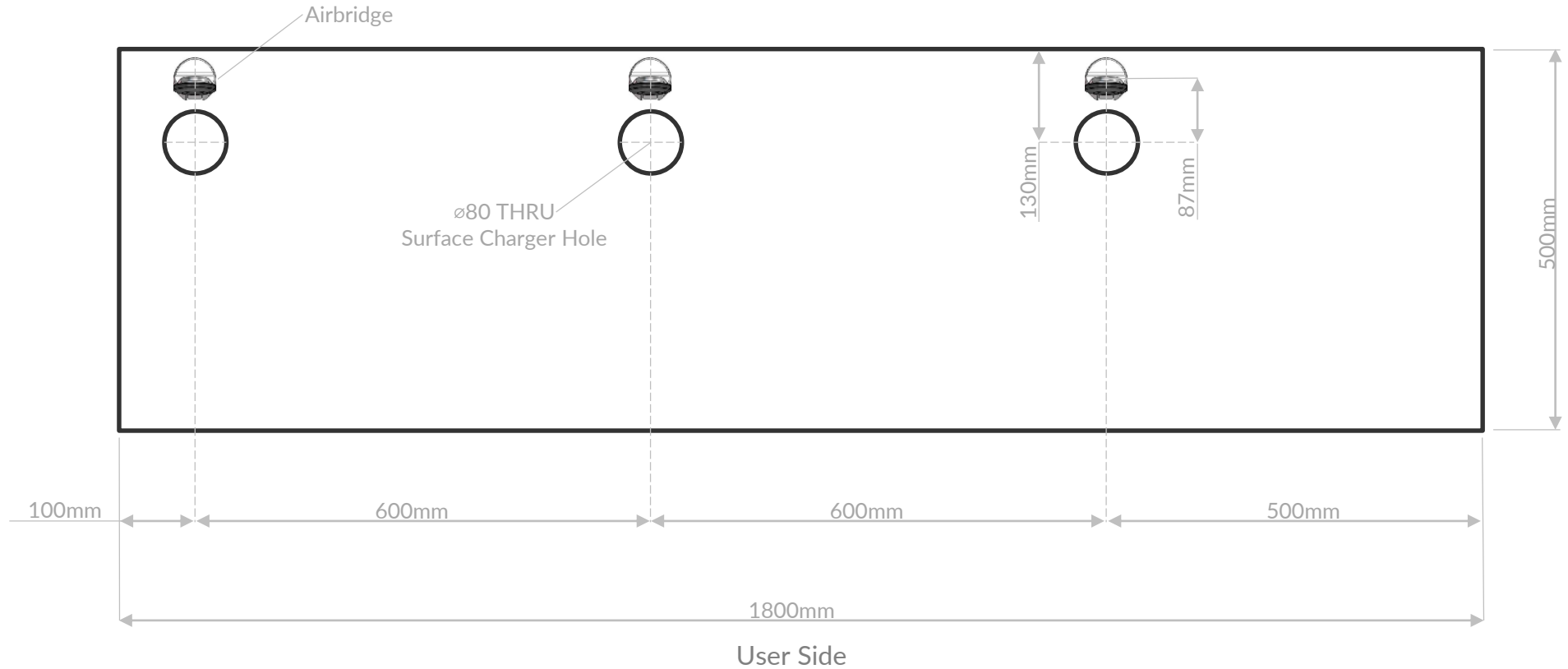
SIT-UP BAR: 2-SEATER



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Surface Charger & Airbridge Positioning
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SIT-UP BAR: 3-SEATER

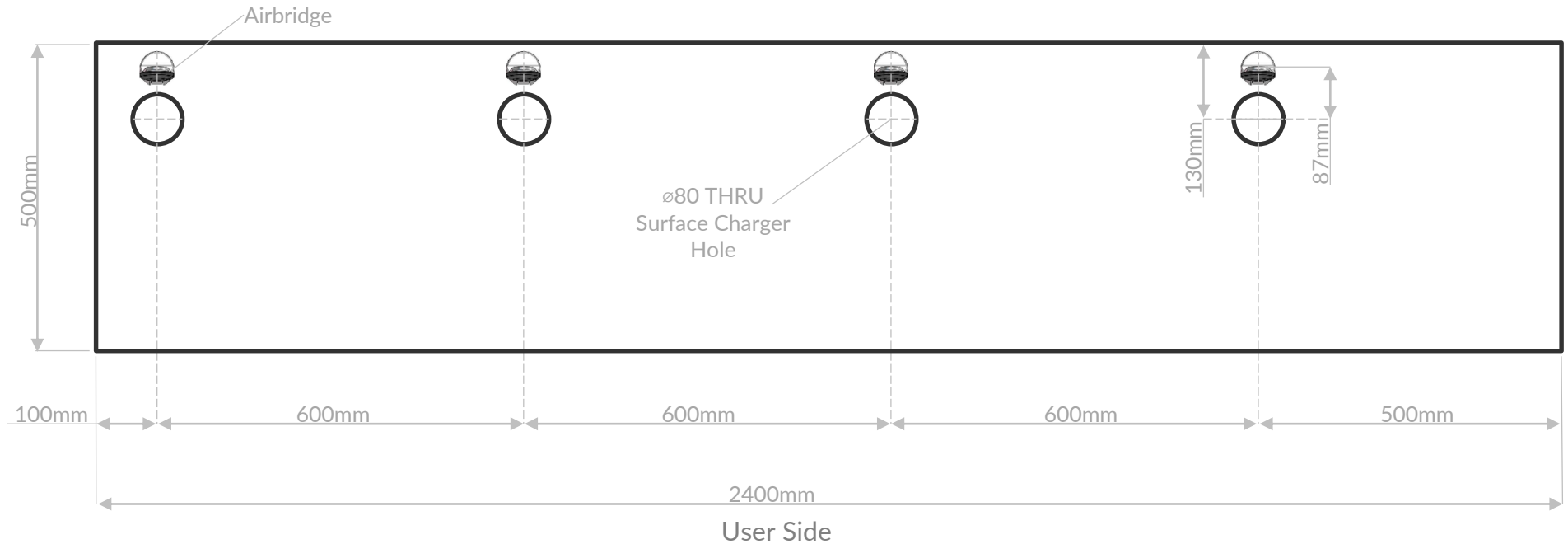


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Surface Charger & Airbridge Positioning

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SIT-UP BAR: 4-SEATER

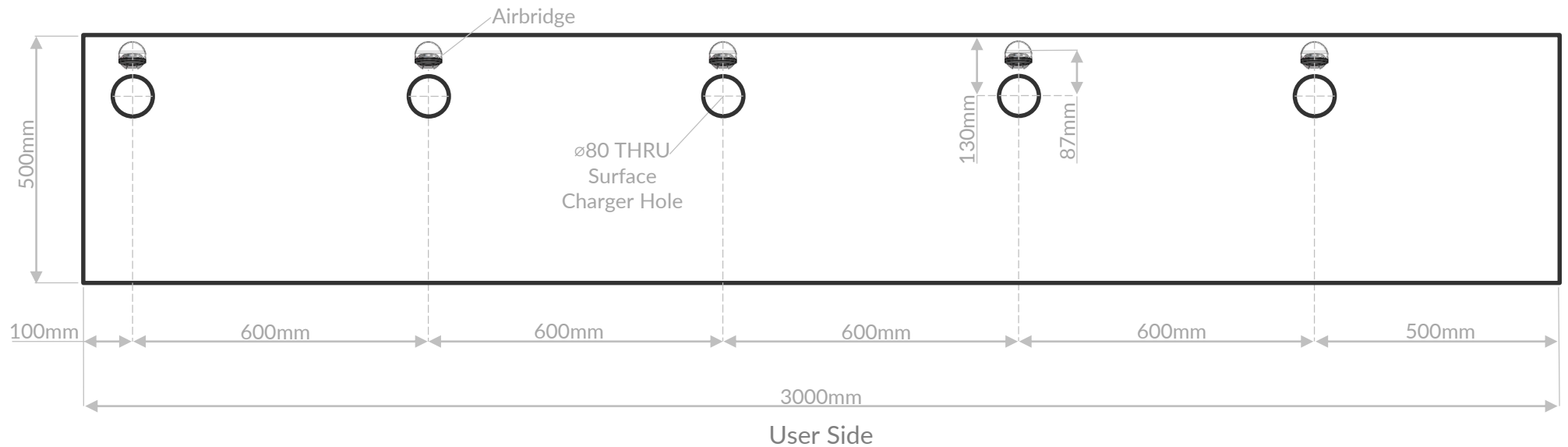


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Surface Charger & Airbridge Positioning

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SIT-UP BAR: 5-SEATER

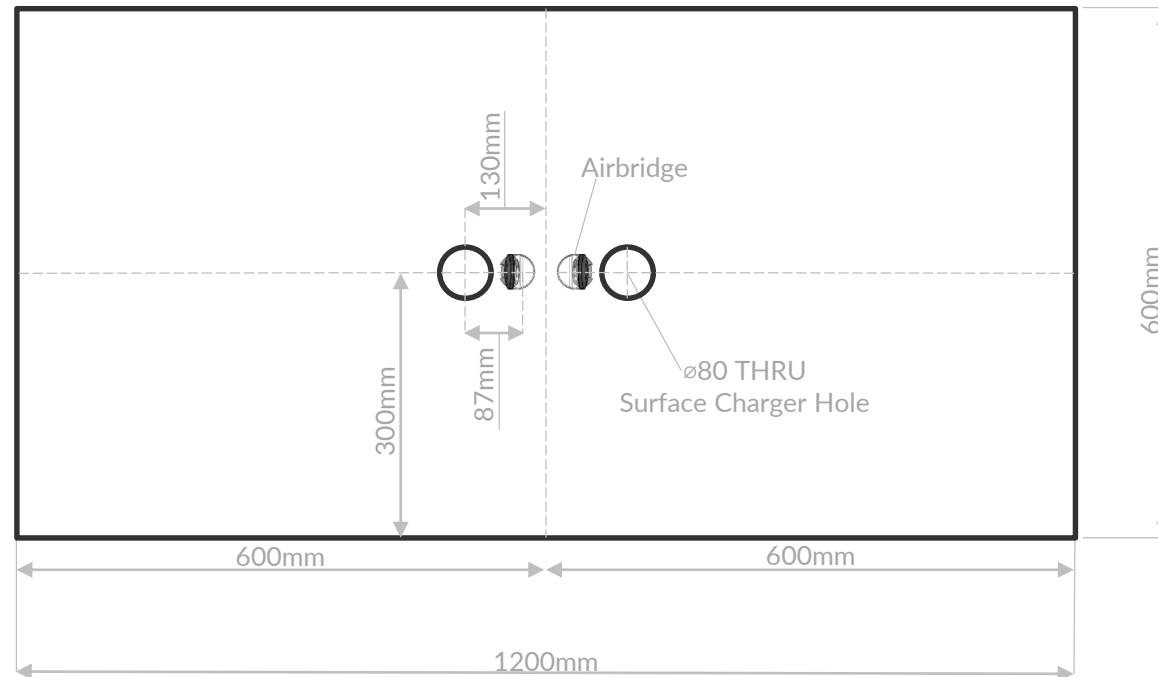


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Sit-up Bar: 5-Seater
Surface Charger & Airbridge Positioning

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COMMUNAL TABLE: 2 CHARGERS



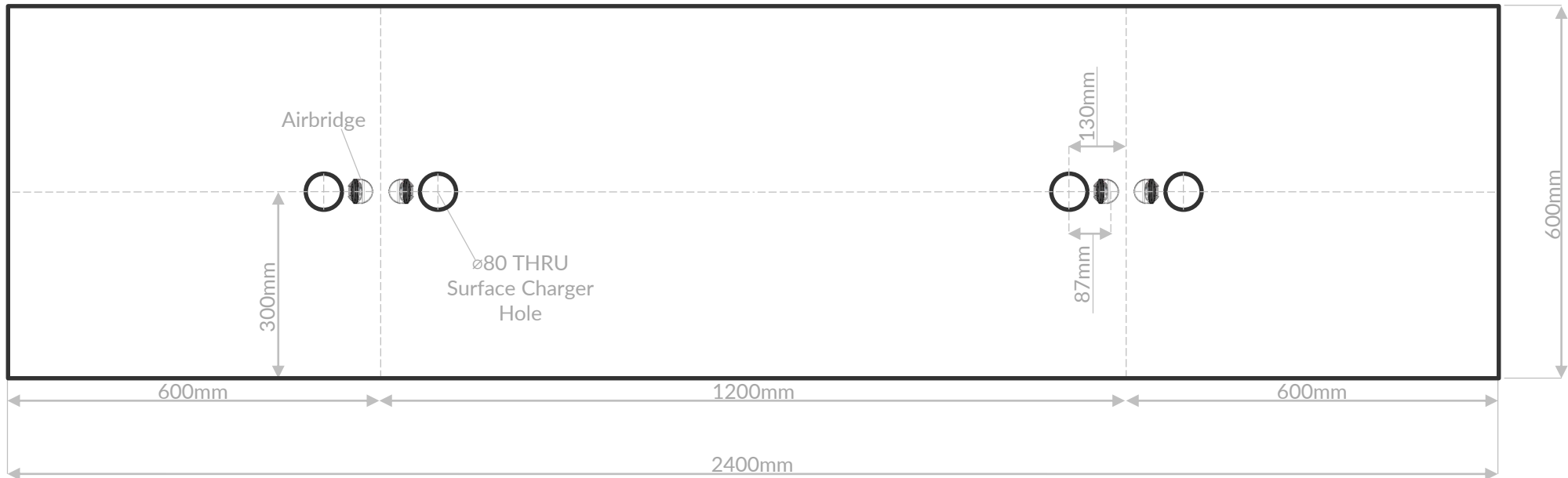
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Surface Charger & Airbridge Positioning

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COMMUNAL TABLE: 4 CHARGERS



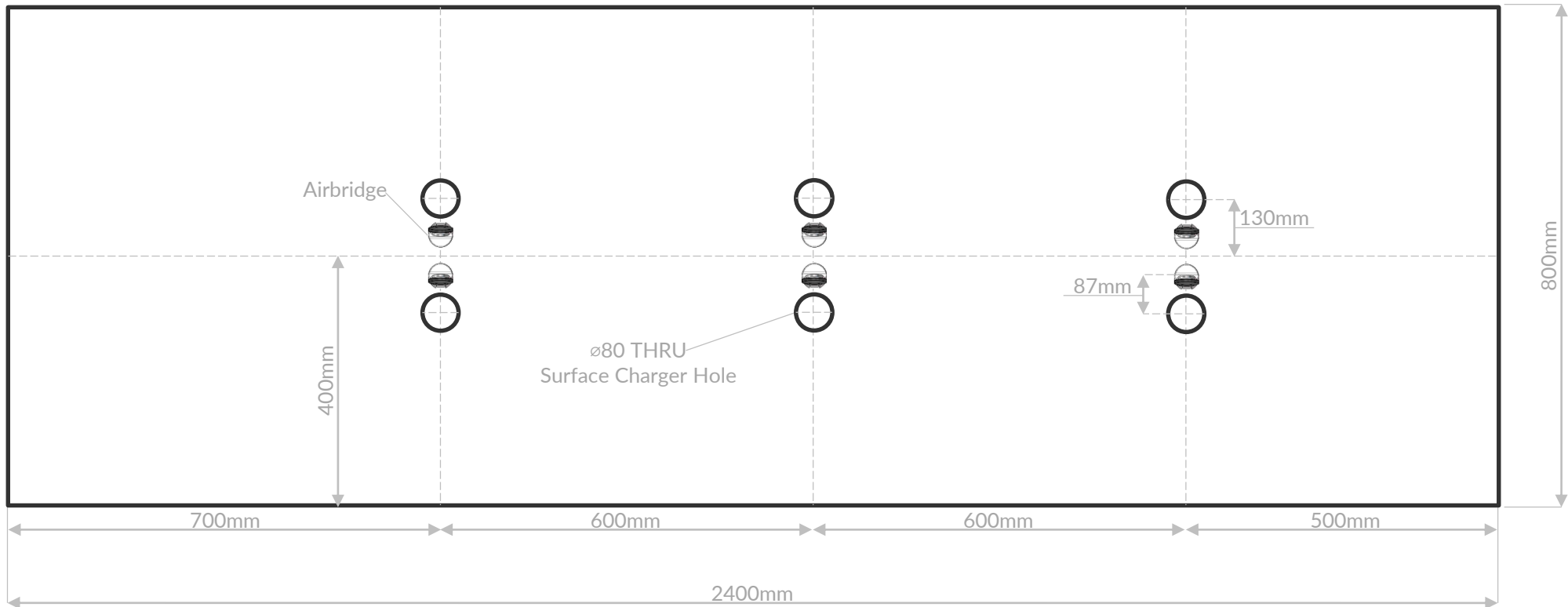
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Communal Table: 4 Chargers
Surface Charger & Airbridge Positioning

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COMMUNAL TABLE: 6 CHARGERS



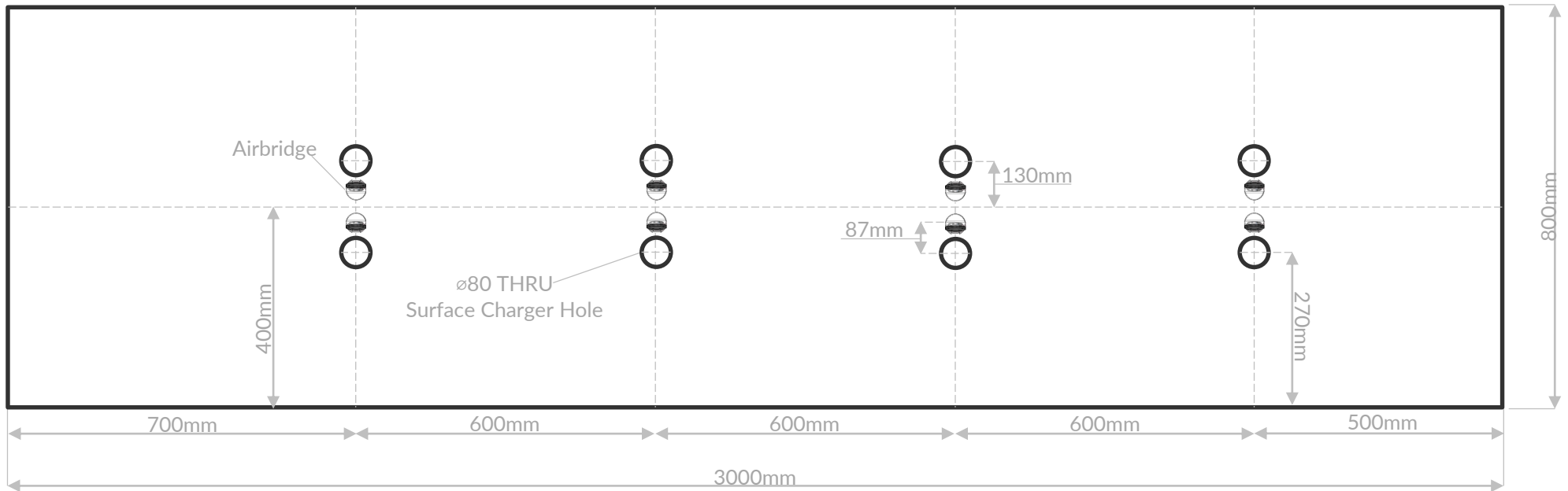
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Communal Table: 6 Chargers
Surface Charger & Airbridge Positioning

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COMMUNAL TABLE: 8 CHARGERS



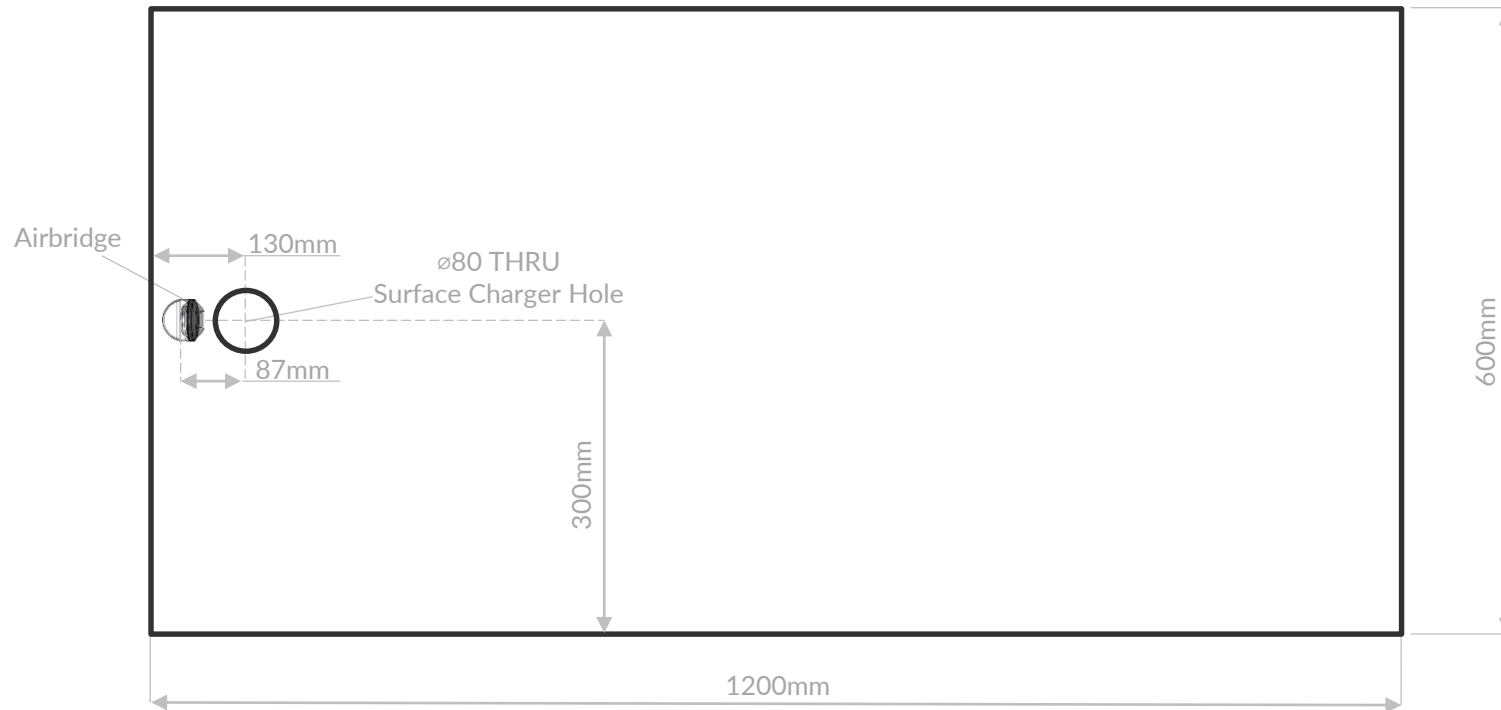
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Communal Table: 8 Chargers
Surface Charger & Airbridge Positioning

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BOOTH TABLE: 4-SEATER



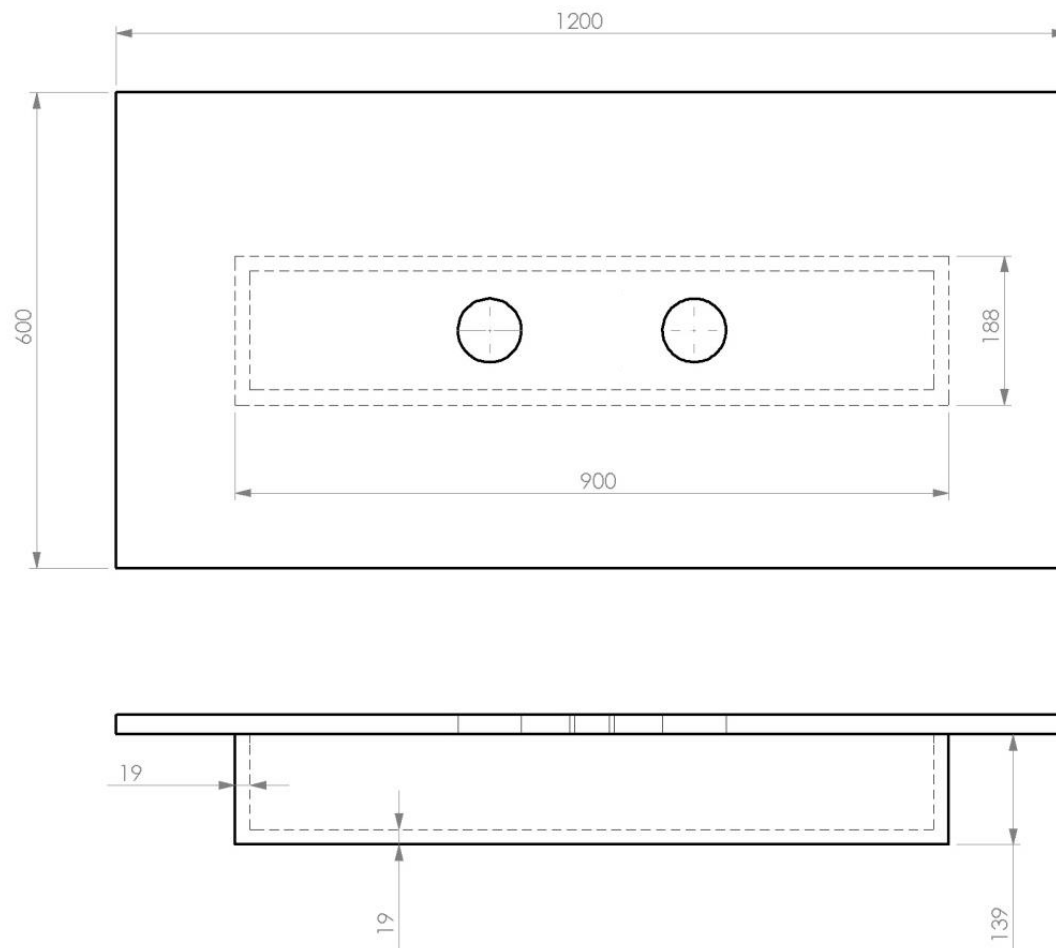
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Booth Table: 4-Seater
Surface Charger & Airbridge Positioning
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TABLE POSITIONING: CONTAINMENT

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COMMUNAL TABLE: 2 CHARGERS



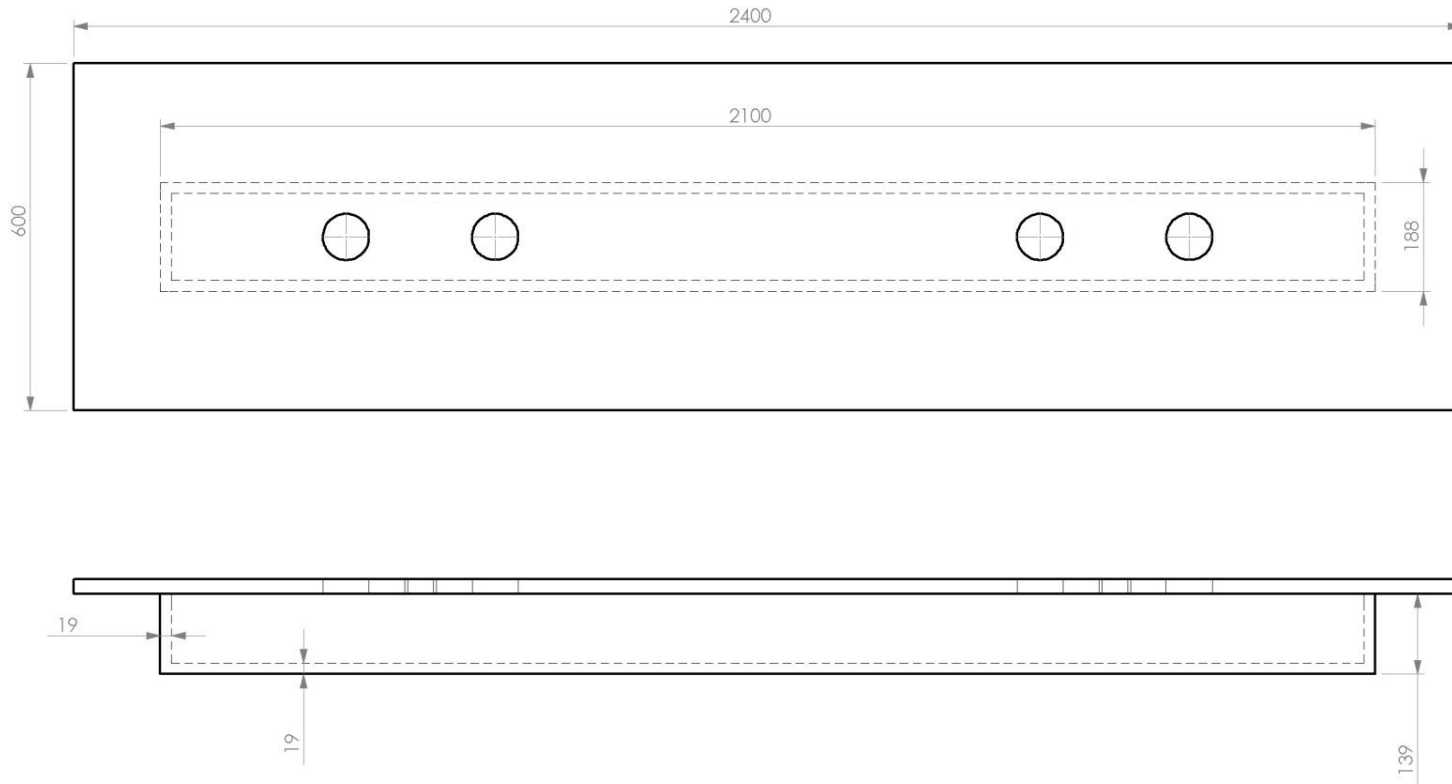
All dimensions in mm

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Communal Table: 2 Chargers
Containment

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COMMUNAL TABLE: 4 CHARGERS



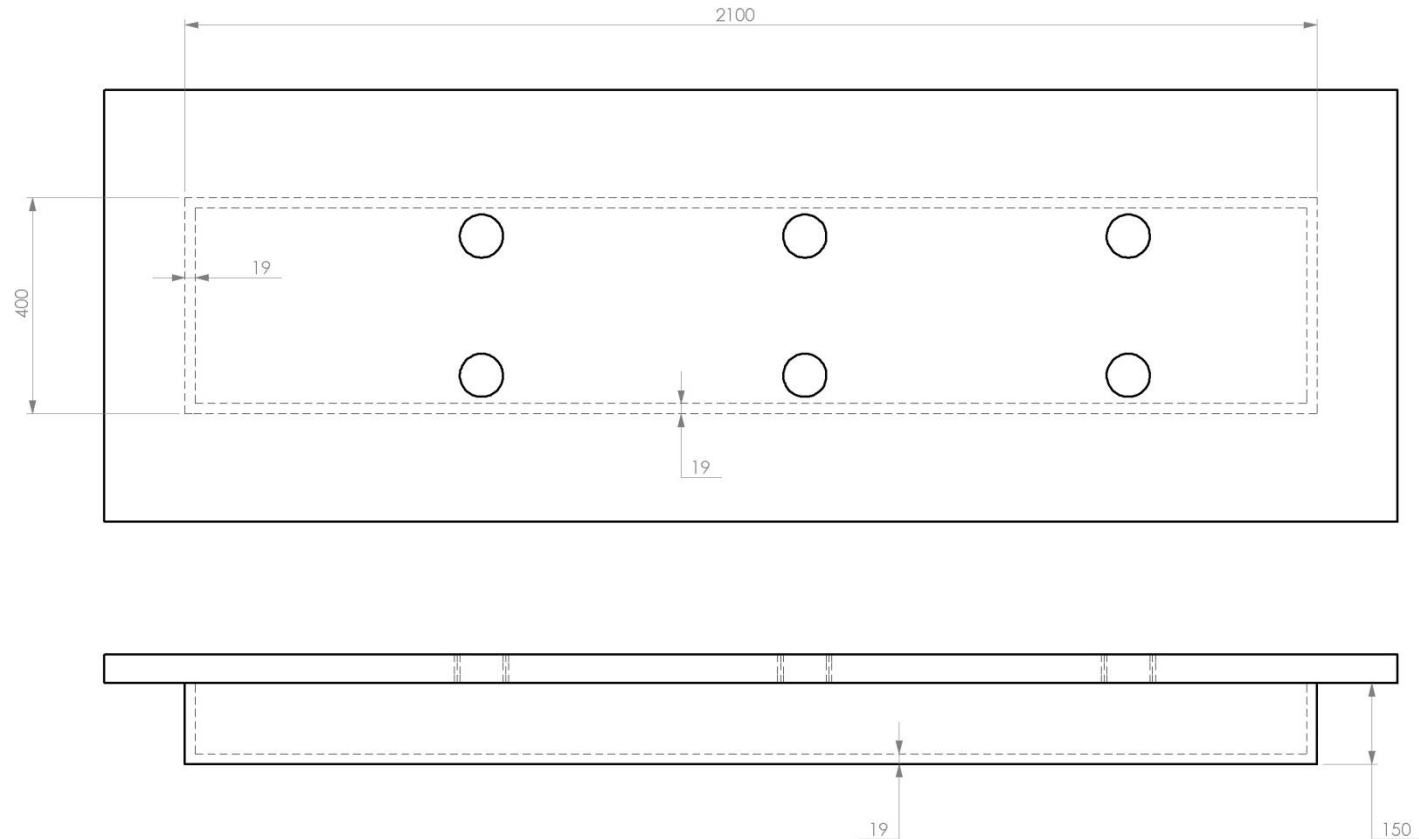
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Communal Table: 4 Chargers
Containment

DO NOT SCALE DRAWING

COMMUNAL TABLE: 6 CHARGERS



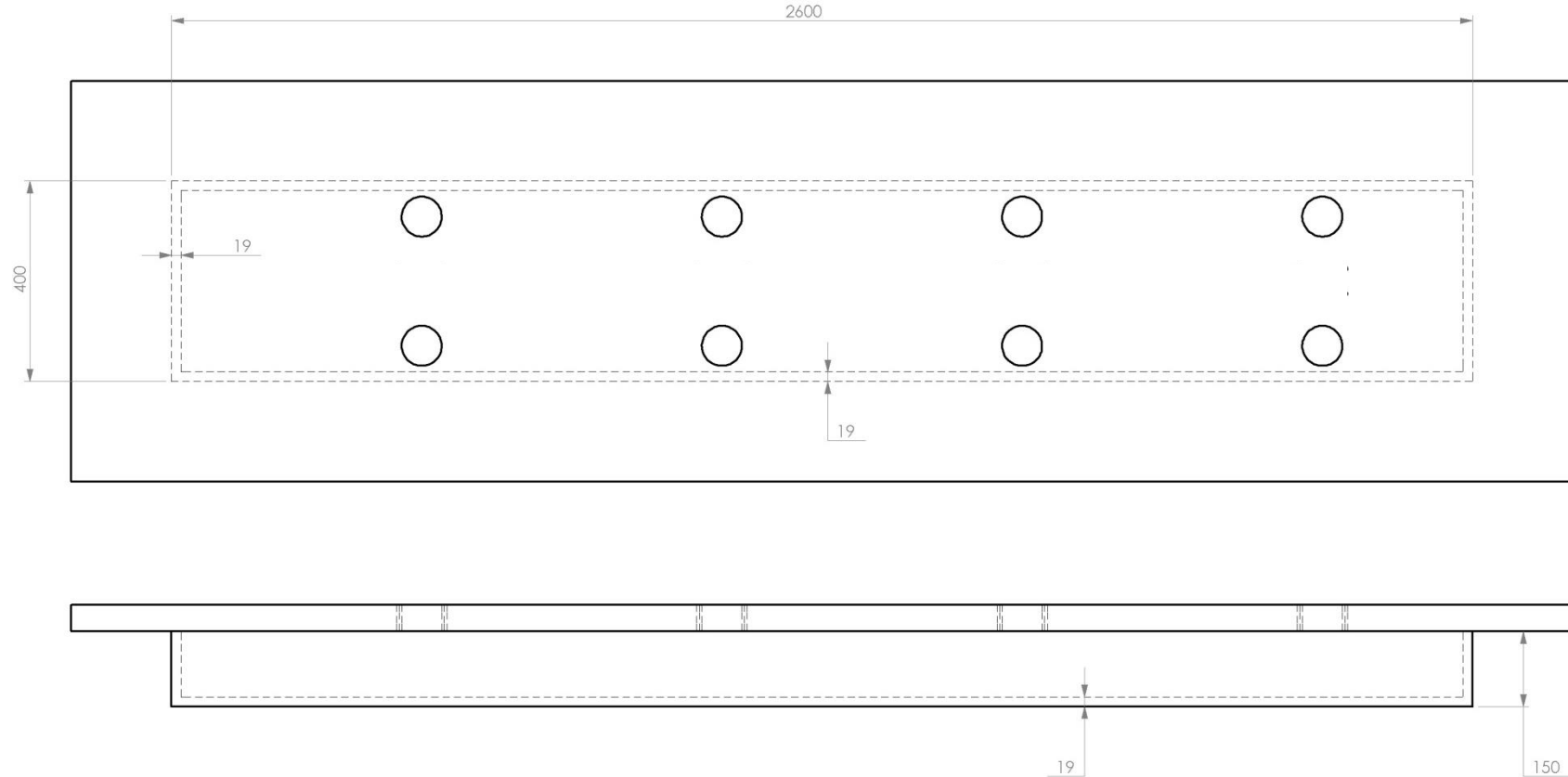
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Communal Table: 6 Chargers
Containment

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COMMUNAL TABLE: 8 CHARGERS



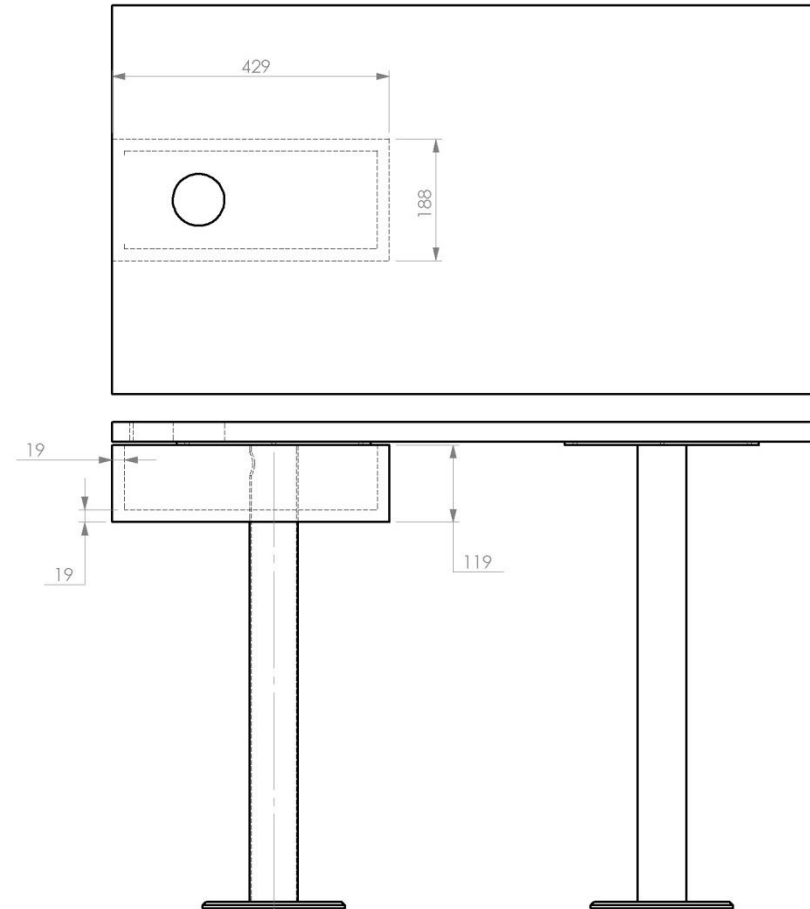
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Communal Table: 8 Chargers
Containment

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BOOTH TABLE: 4-SEATER



All dimensions in mm

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Booth Table: 4-Seater
Containment

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CONTAINMENT EXAMPLES



SURFACE CHARGER: VARIATIONS IN DIMENSIONS

MODEL	DEPTH	DIAMETER
5w Surface Charger	18mm	80mm
5w Glass Surface Charger	20mm	80mm
5w Aluminium Surface Charger	18mm	80mm
5w Aluminium Surface Charger + Data	24mm	80mm

DRILLING INSTRUCTIONS: SURFACE CHARGER



The hole for Surface Charger installation should be drilled with an 80mm hole saw & arbor.

To prevent the drill bit from slipping and to protect the surface you are drilling into, you should first apply masking tape to the area.

If the table thickness is less than the maximum cutting depth of the 80mm hole saw:

Diagram 1

If there is an obstruction below the drilling position (i.e. pedestal fixing plate):

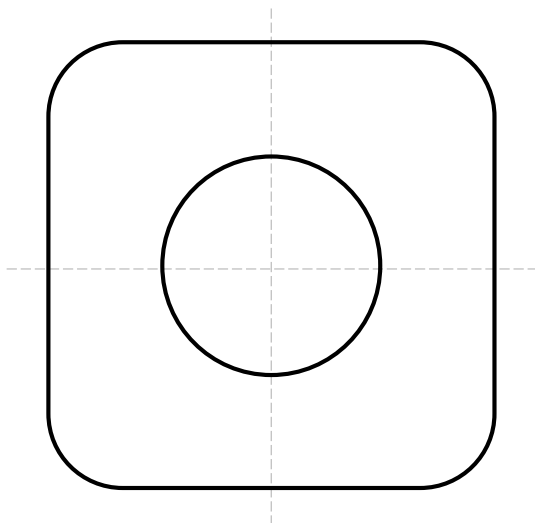
Diagram 2

If the table thickness exceeds the maximum cutting depth of the 80mm hole saw:

Diagram 3

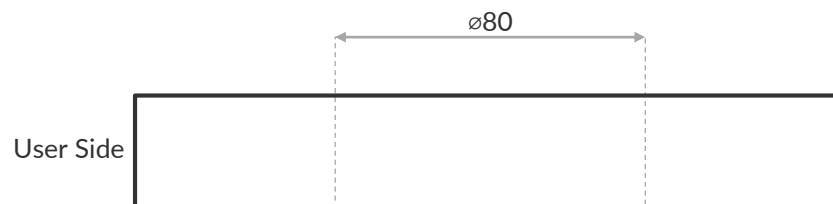


DIAGRAM 1



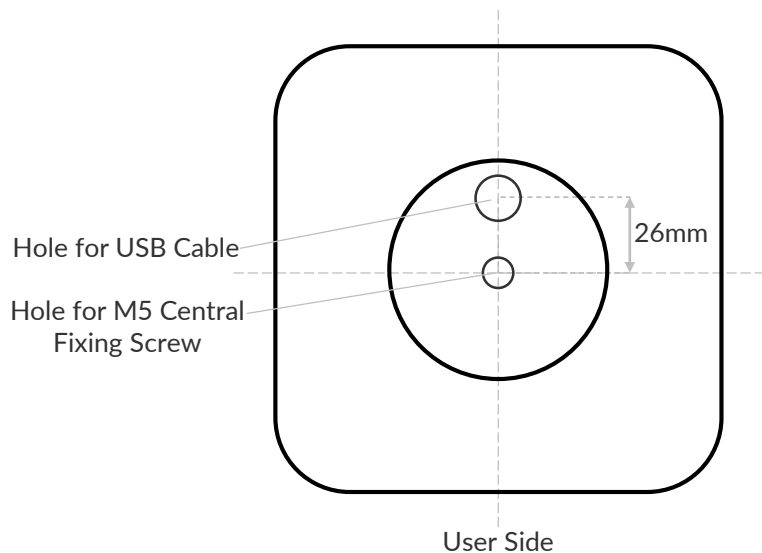
This is the recommended method for most installations. In the event that there is an obstruction, see [DIAGRAM 2](#). Or if the Depth of the surface exceeds that of your hole saw, see [DIAGRAM 3](#).

- Mark the central point for the charger on the masking tape. See [TABLE POSITIONING: SURFACE CHARGER AND AIRBRIDGE](#).
- Place the arbor and hole saw over the marker and proceed to drill a 80mm hole at a 90 degree angle.



Please also refer to the '[EXPLODED ASSEMBLY VIEW: SURFACE CHARGER](#)' to see how to assemble the Surface Charger.

DIAGRAM 2

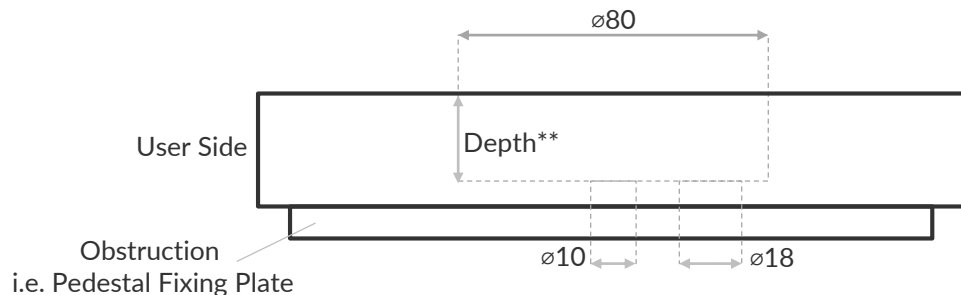


! *Before drilling, ensure that the obstruction can be drilled through to run cables and doing so will not compromise the stability of the structure.

**See SURFACE CHARGER: VARIATION IN DIMENSIONS for the required depth of the 80mm hole.

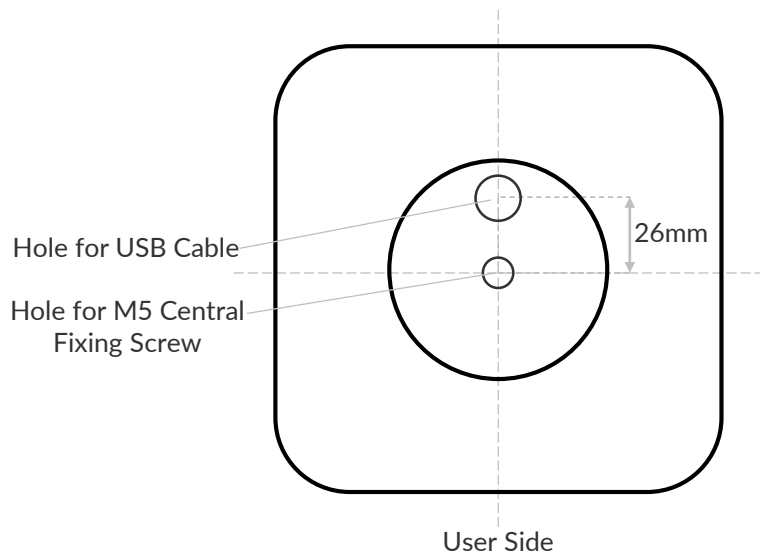
If there is an obstruction (i.e. pedestal fixing plate) directly below the intended position of the surface charger, then this is the recommended method of installation*.

- Mark the central point for the charger on the masking tape. See TABLE POSITIONING: SURFACE CHARGER AND AIRBRIDGE.
- Place the arbor and hole saw over the marker and proceed to drill a 80mm hole at a 90 degree angle, to the required depth**.
- Drill a $\varnothing 10$ hole for the Central M5 Fixing Screw and a $\varnothing 18$ hole for the USB cable through the remaining surface and obstruction.



Please also refer to the 'EXPLODED ASSEMBLY VIEW: SURFACE CHARGER WITH OBSTRUCTION' to see how to assemble the Surface Charger.

DIAGRAM 3

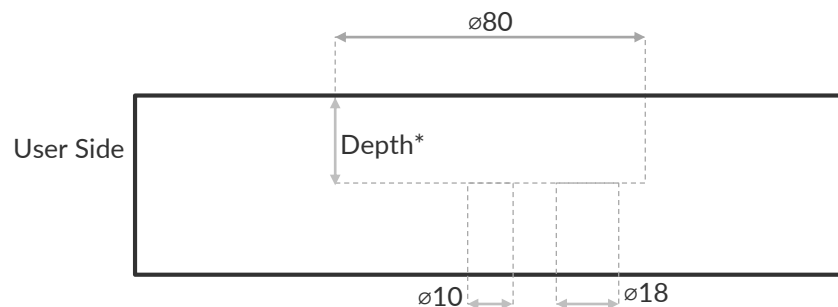


If the depth of the surface exceeds that of the depth of your hole saw, then this is the recommended method of installation.

- Mark the central point for the charger on the masking tape. See TABLE POSITIONING: SURFACE CHARGER AND AIRBRIDGE.
- Place the arbor and hole saw over the marker and proceed to drill a 80mm hole at a 90 degree angle, to the required depth*.
- Drill a $\varnothing 10$ hole for the Central M5 Fixing Screw and a $\varnothing 18$ hole for the USB cable through the remaining surface.



* See SURFACE CHARGER: VARIATION IN DIMENSIONS for the required depth of the 80mm hole.



Please also refer to the 'EXPLODED ASSEMBLY VIEW: SURFACE CHARGER- SURFACE EXCEEDING HOLE SAW DEPTH' to see how to assemble the Surface Charger.

SURFACE CHARGER ASSEMBLY INSTRUCTIONS

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<u>Exploded Assembly View: Surface Charger with an Obstruction</u>	<u>33</u>
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<u>Exploded Assembly View: Surface Charger exceeding surface thickness</u>	<u>35</u>
<u>Exploded Assembly View: Surface Charger with restricted access</u>	<u>36</u>



A Surface Charger Installation Video Guide is available.

iPhone Users:
Just point your camera at the QR code.

Other devices:
Download a QR Reader from your App store.

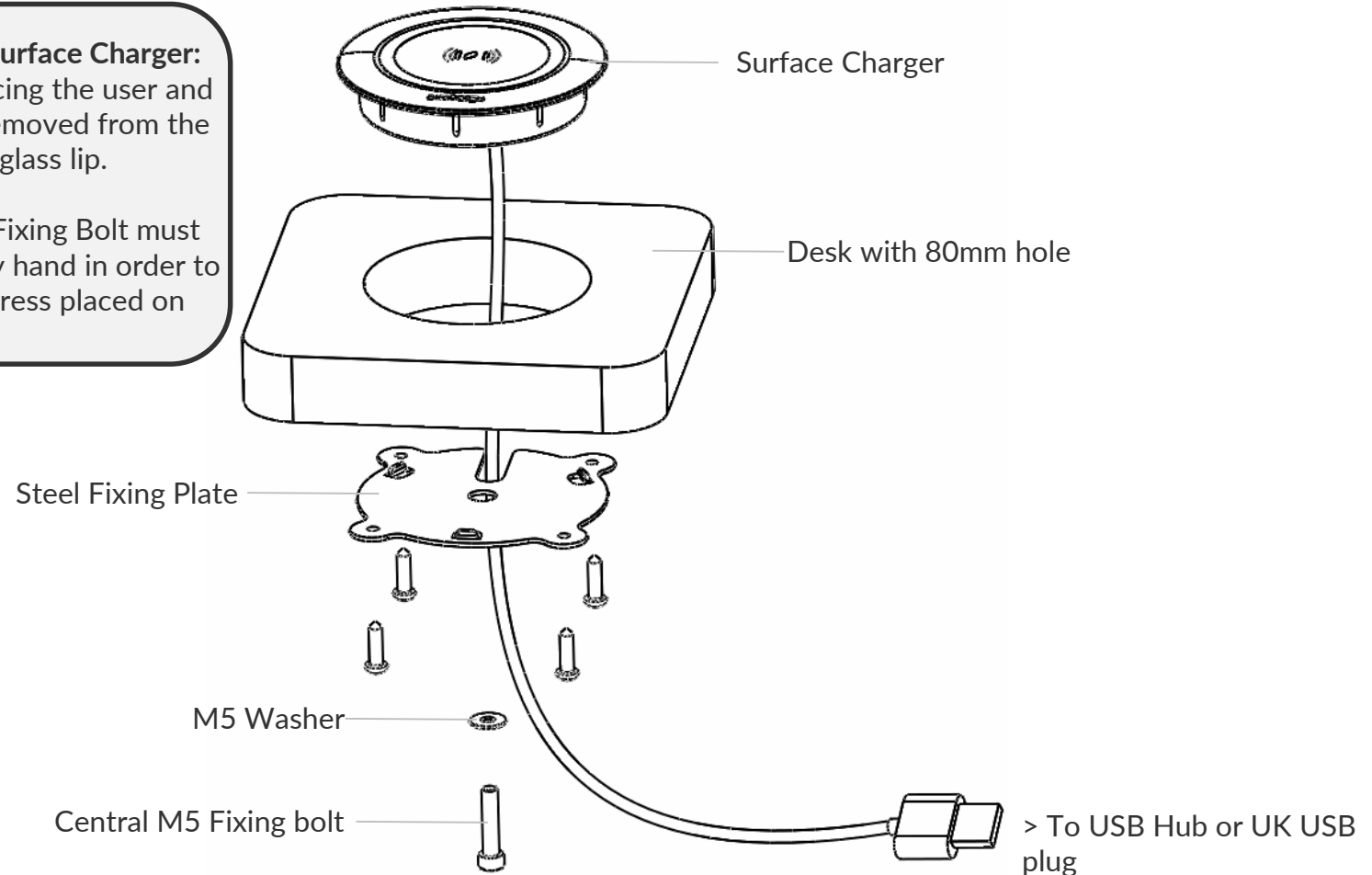


EXPLODED ASSEMBLY VIEW: SURFACE CHARGER

This is the standard assembly method of the surface charger.

If installing a Glass Surface Charger:

- Ensure logo is facing the user and that 3M ring is removed from the underside of the glass lip.
- The Central M5 Fixing Bolt must only be tightened by hand in order to prevent undue stress placed on the glass.

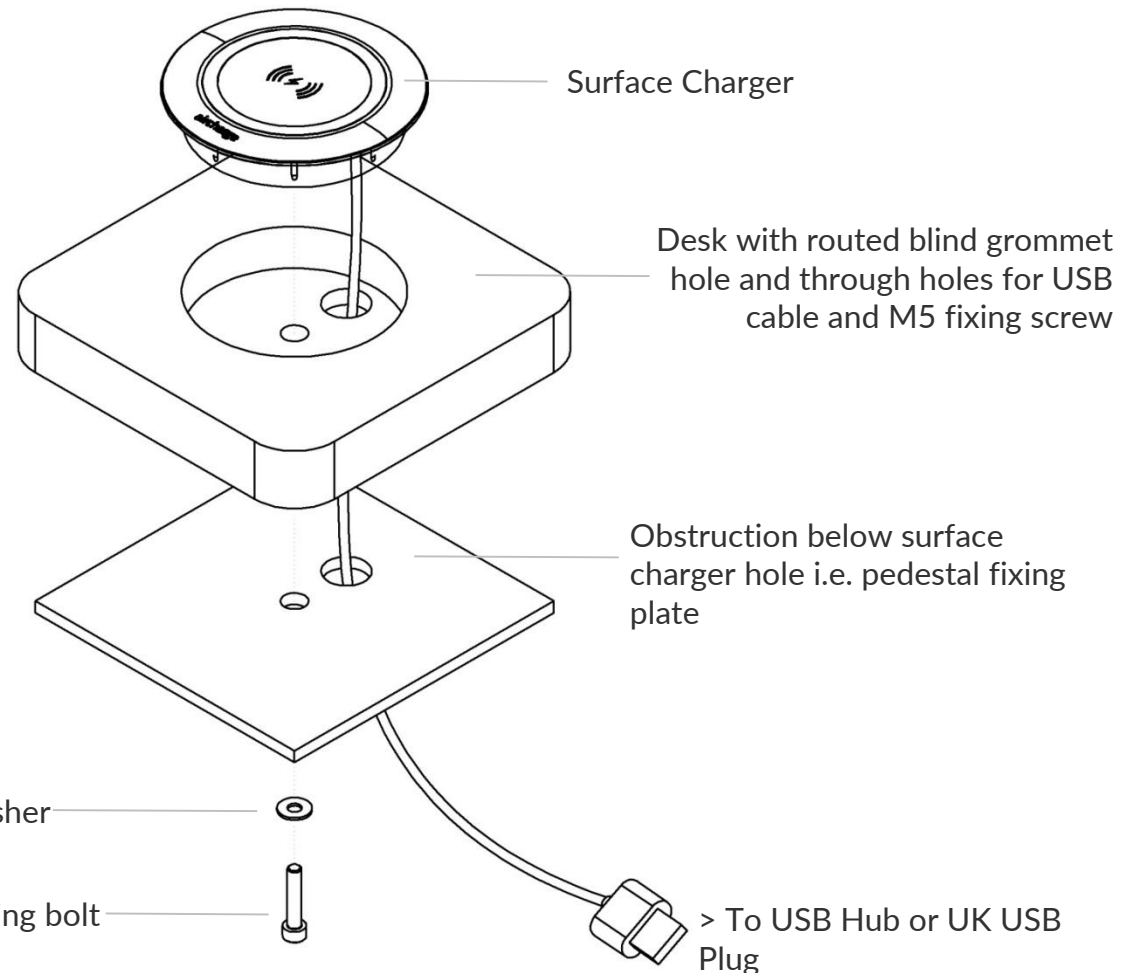


EXPLODED ASSEMBLY VIEW: SURFACE CHARGER WITH AN OBSTRUCTION

This is the assembly method of the surface charger where there is an obstruction directly below (i.e. pedestal fixing plate). There is no need for the usual backing plate.

If installing a Glass Surface Charger:

- Ensure logo is facing the user and that 3M ring is removed from the underside of the glass lip.
- The Central M5 Fixing Bolt must only be tightened by hand in order to prevent undue stress placed on the glass.

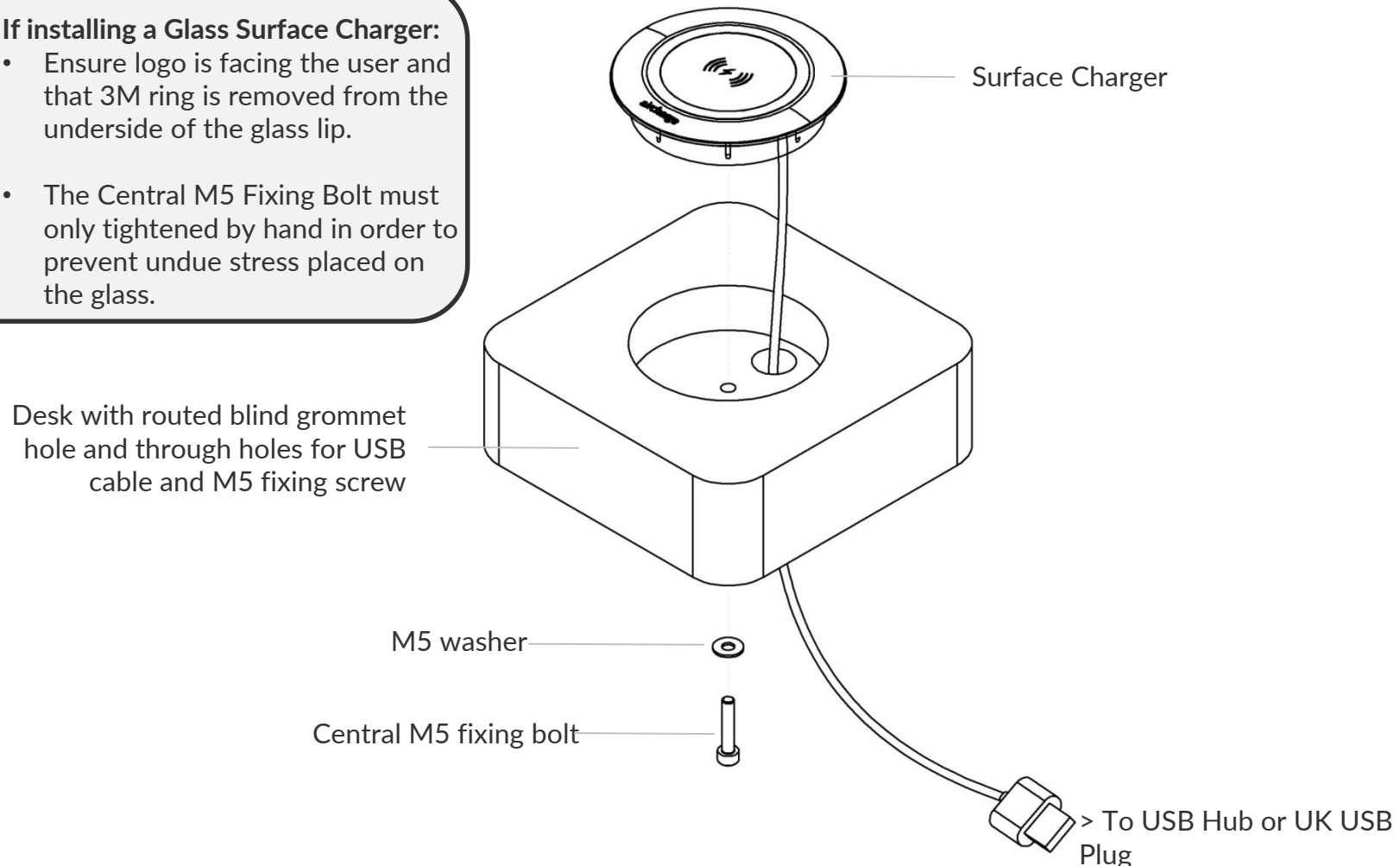


EXPLODED ASSEMBLY VIEW: SURFACE CHARGER SURFACE EXCEEDING HOLE SAW DEPTH

This is the assembly method of the surface charger on a thick surface. There is no need for the normal backing plate.

If installing a Glass Surface Charger:

- Ensure logo is facing the user and that 3M ring is removed from the underside of the glass lip.
- The Central M5 Fixing Bolt must only be tightened by hand in order to prevent undue stress placed on the glass.

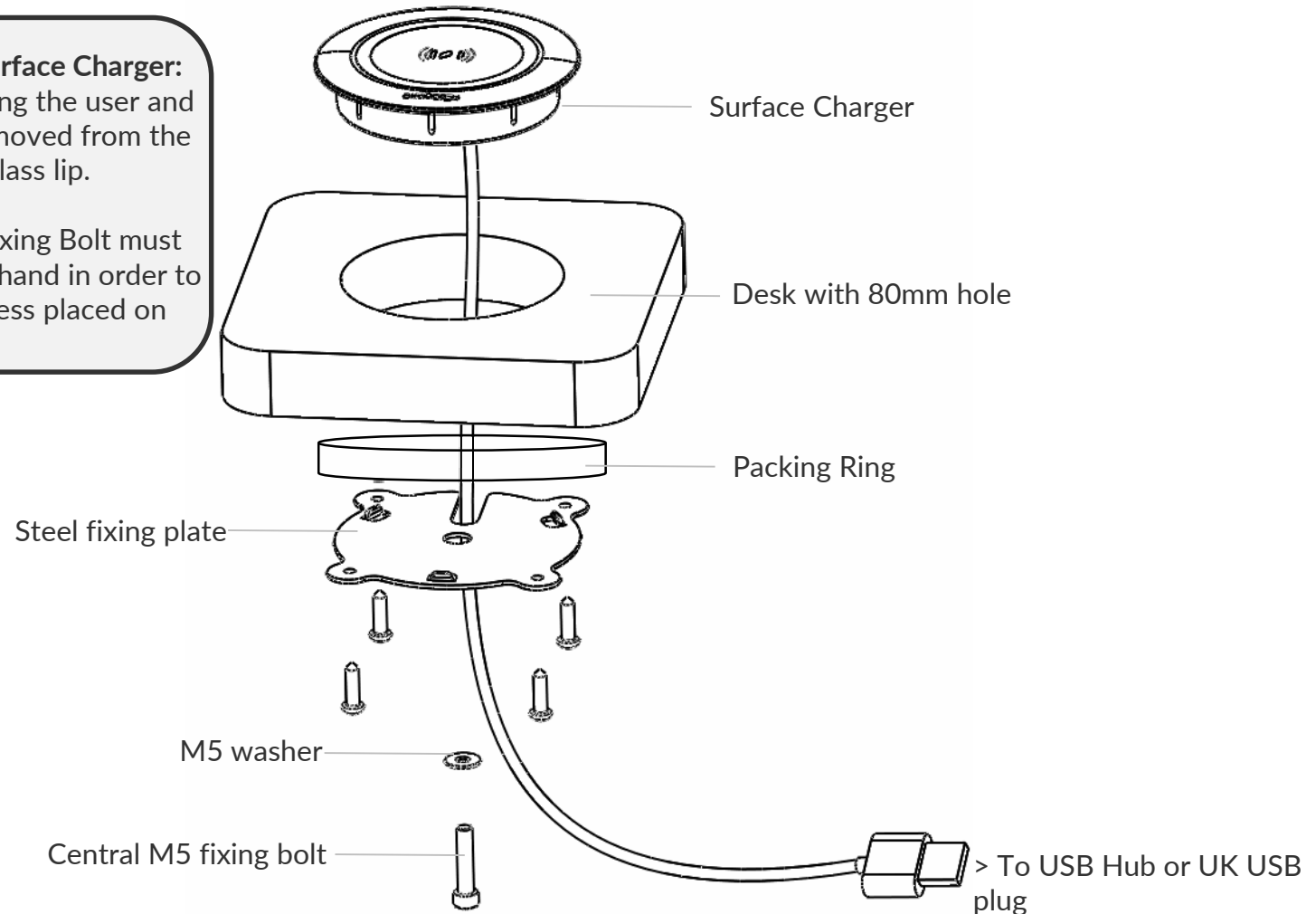


EXPLODED ASSEMBLY VIEW: SURFACE CHARGER EXCEEDING SURFACE THICKNESS

This is the assembly method of the surface charger when the charger depth is greater than the thickness of the surface.
You will need to use a packing ring before applying the fixing plate.

If installing a Glass Surface Charger:

- Ensure logo is facing the user and that 3M ring is removed from the underside of the glass lip.
- The Central M5 Fixing Bolt must only be tightened by hand in order to prevent undue stress placed on the glass.



EXPLODED ASSEMBLY VIEW: SURFACE CHARGER WITH RESTRICTED ACCESS

A pedestal leg is shown for illustration purpose but this could be any obstruction that prevents access to the area below the surface charger.

If installing a Glass Surface Charger:

- Ensure logo is facing the user and that 3M ring is removed from the underside of the glass lip.
- The Central M5 Fixing Bolt must only be tightened by hand in order to prevent undue stress placed on the glass.



Surface Charger

If Nylon or Aluminium Surface Charger:
Silicone to be applied to side wall of surface charger to secure it in grommet hole.

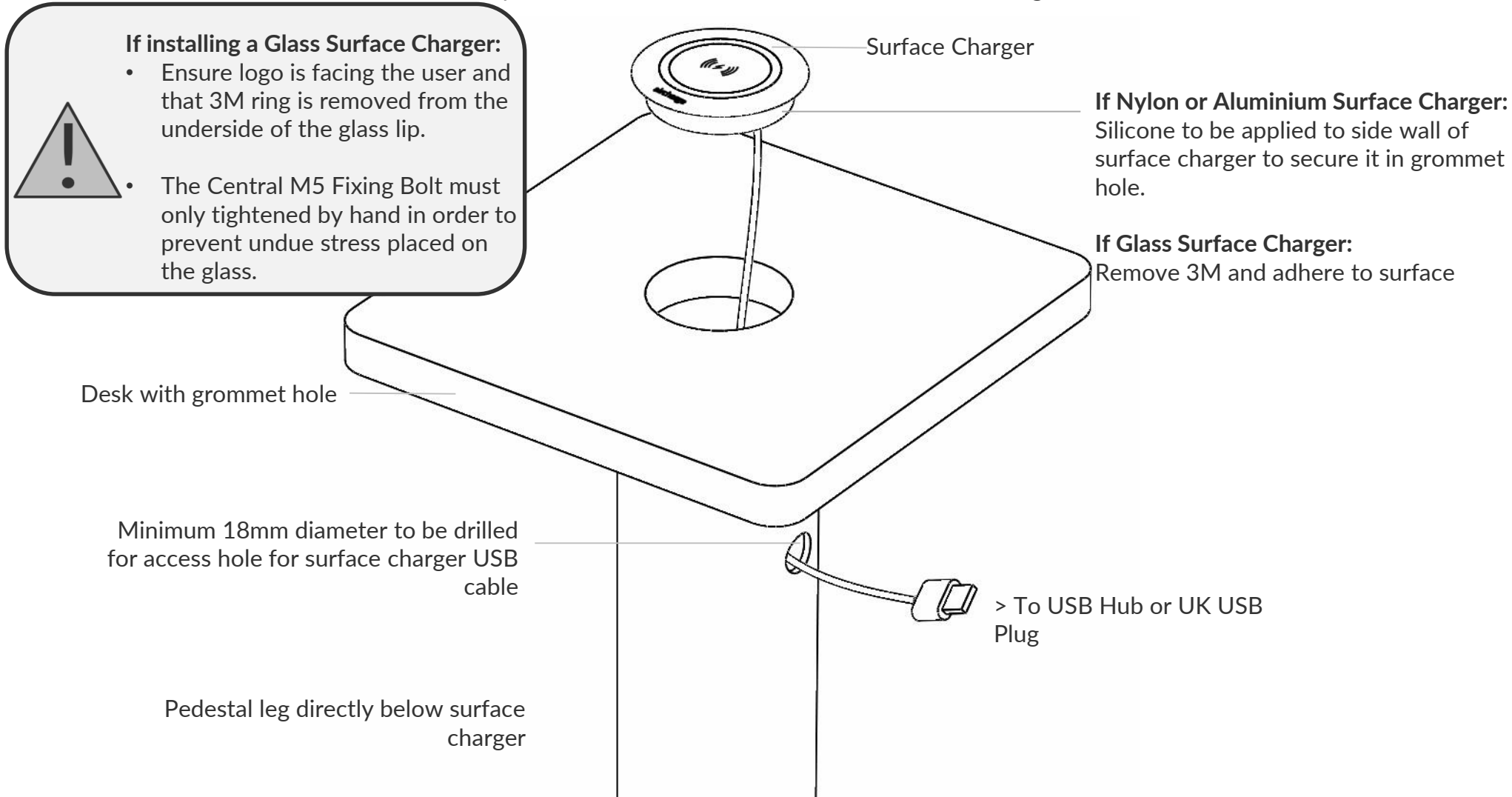
If Glass Surface Charger:
Remove 3M and adhere to surface

Desk with grommet hole

Minimum 18mm diameter to be drilled for access hole for surface charger USB cable

Pedestal leg directly below surface charger

> To USB Hub or UK USB Plug

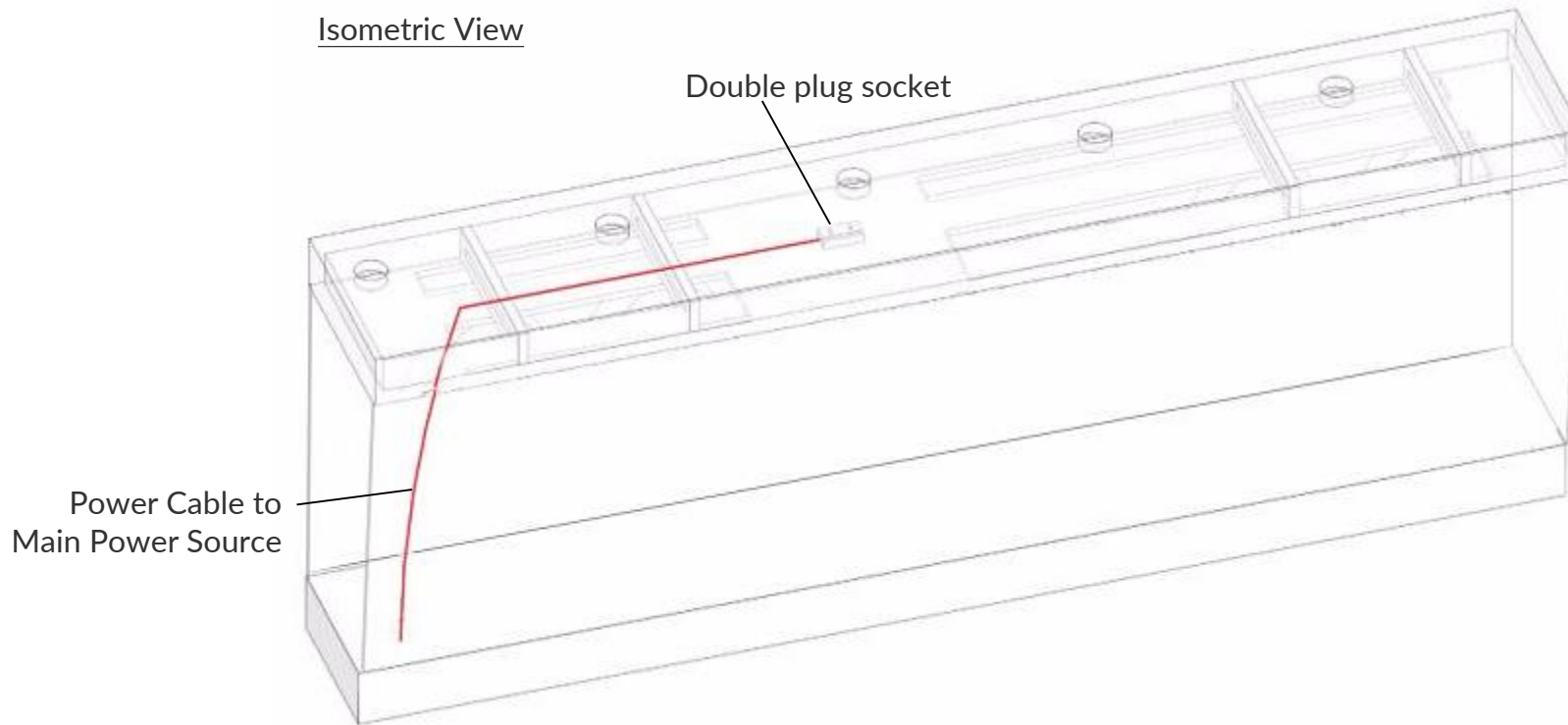


POWER SUPPLY REQUIREMENTS AND WIRING INSTRUCTIONS

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POWER SUPPLY REQUIREMENTS

Isometric View



	No. of Surface Chargers	Plug Socket Type
Sit-up Bar 2 Seater	2	Double
Sit-up Bar 3 Seater	3	Single
Sit-up Bar 4 Seater	4	Single
Sit-up Bar 5 Seater	5	Double
Sit-up Bar 6 Seater	6	Double

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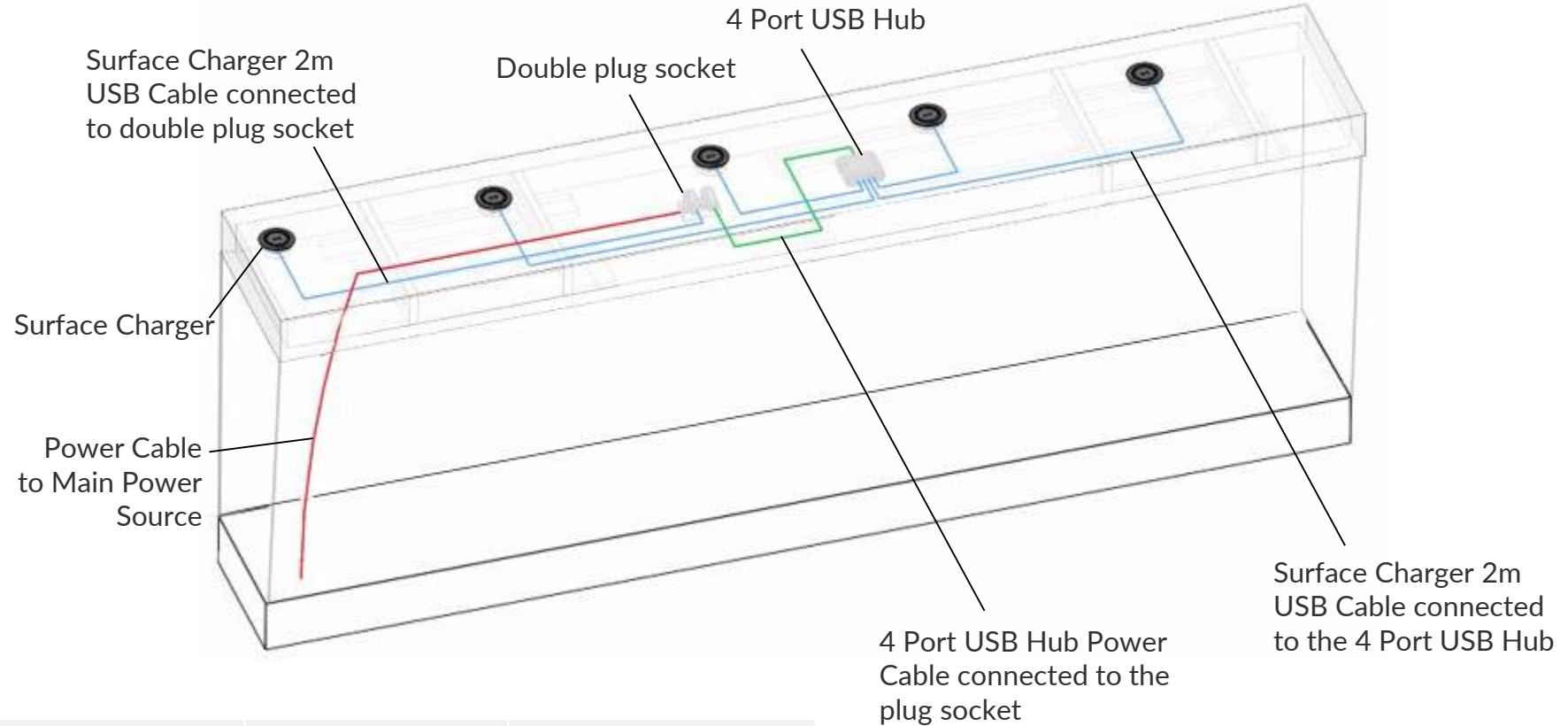
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Sit-up Bar: 5-Seater
 Power Source

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WIRING INSTRUCTIONS

Isometric View



	No. of UK USB Plugs	No. of '4-Port USB Hubs'
Sit-up Bar 2 Seater	2	0
Sit-up Bar 3 Seater	0	1
Sit-up Bar 4 Seater	0	1
Sit-up Bar 5 Seater	1	1
Sit-up Bar 6 Seater	0	2

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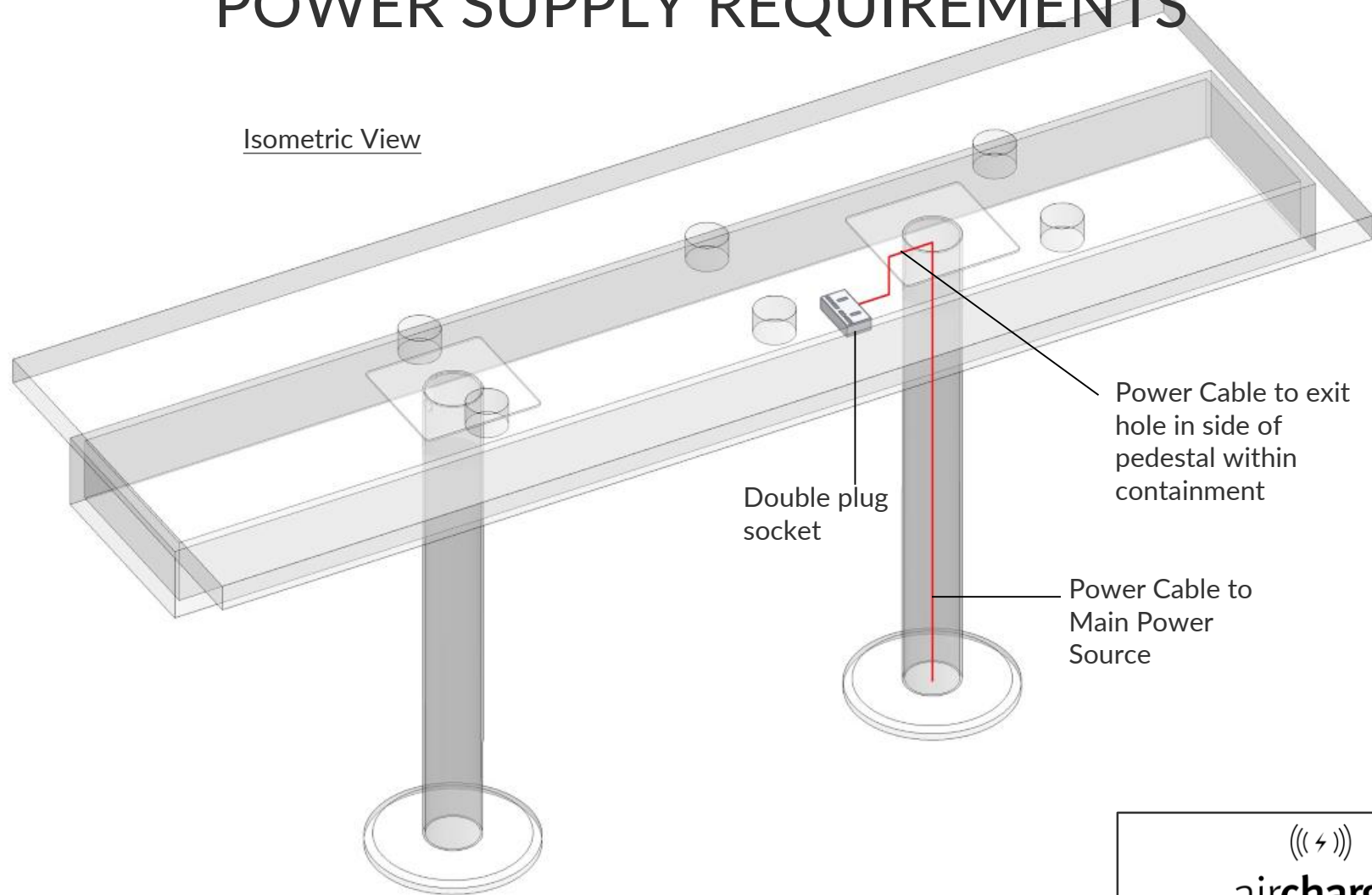
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Sit-up Bar: 5-Seater
 Wiring Instructions

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POWER SUPPLY REQUIREMENTS

Isometric View



	No. of Surface Chargers	Plug Socket Type
Communal Table 3000mm x 800mm	8	Double
Communal Table 2400mm x 800mm	6	Double
Communal Table 2400mm x 600mm	4	Single
Communal Table 1200mm x 600mm	2	Double

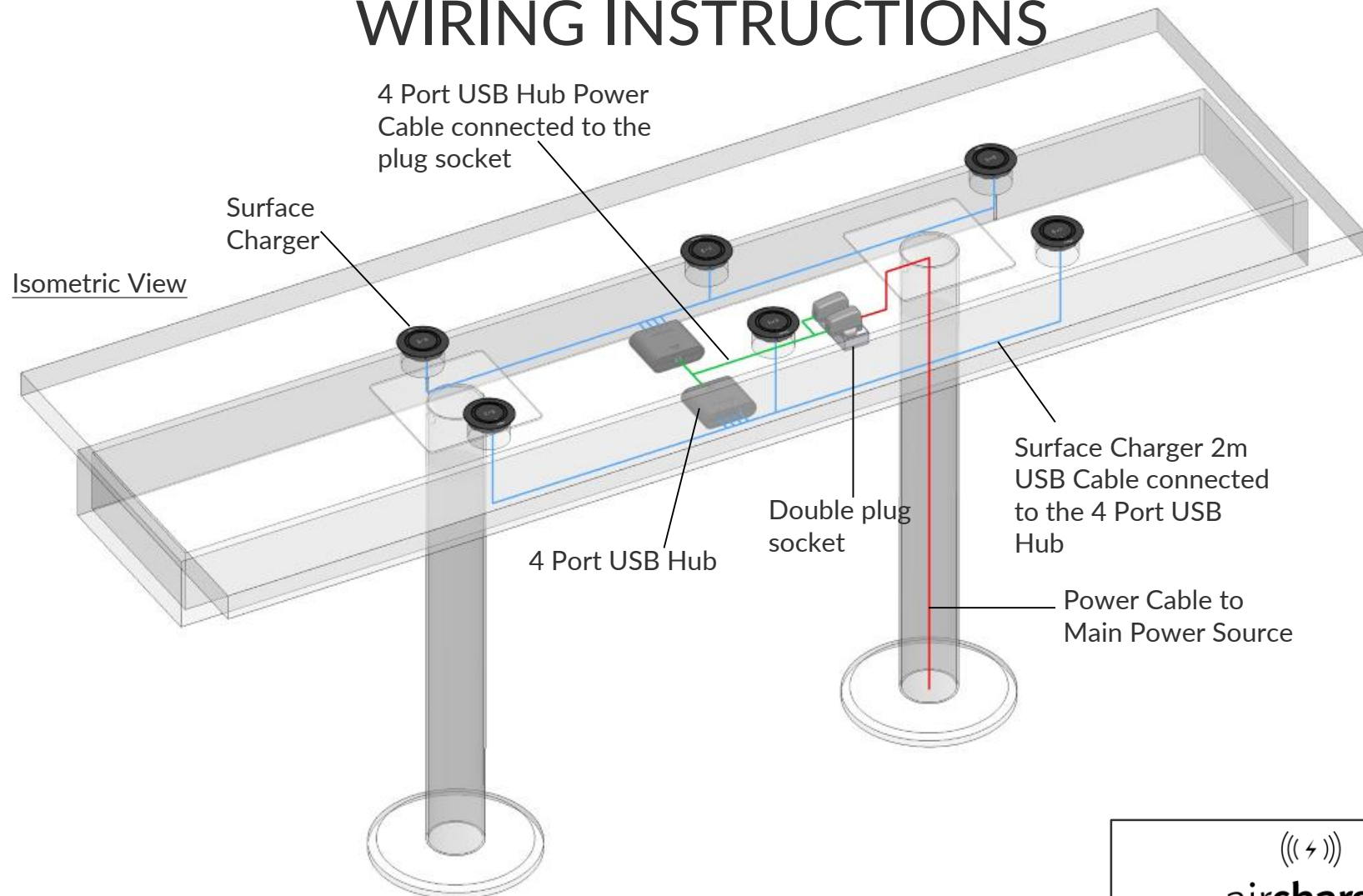
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Communal Table: 6 Chargers
 Power Source

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WIRING INSTRUCTIONS



	No. of UK USB Plugs	No. of '4-Port USB Hubs'
Communal Table 3000mm x 800mm	0	2
Communal Table 2400mm x 800mm	0	2
Communal Table 2400mm x 600mm	0	1
Communal Table 1200mm x 600mm	2	0

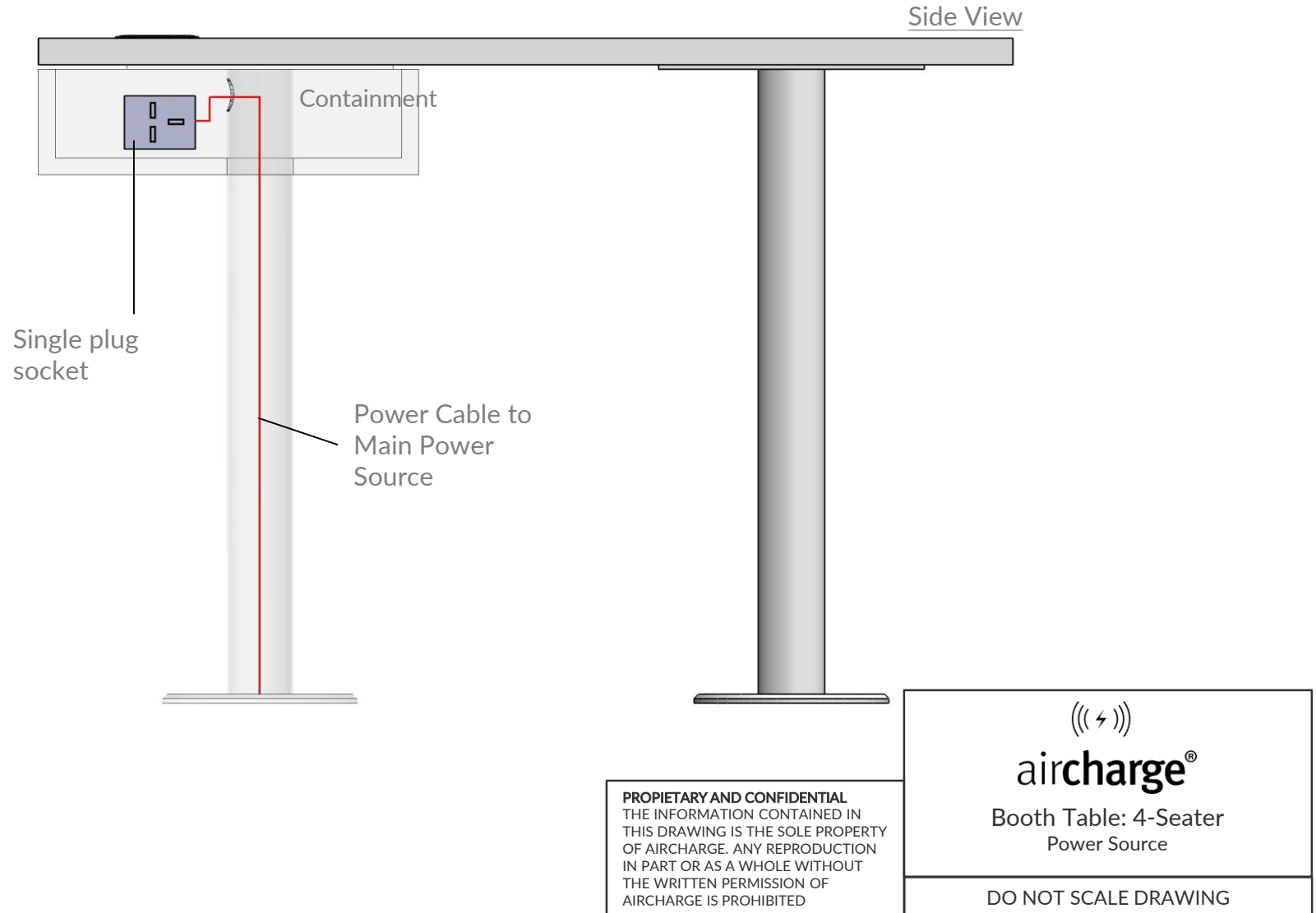
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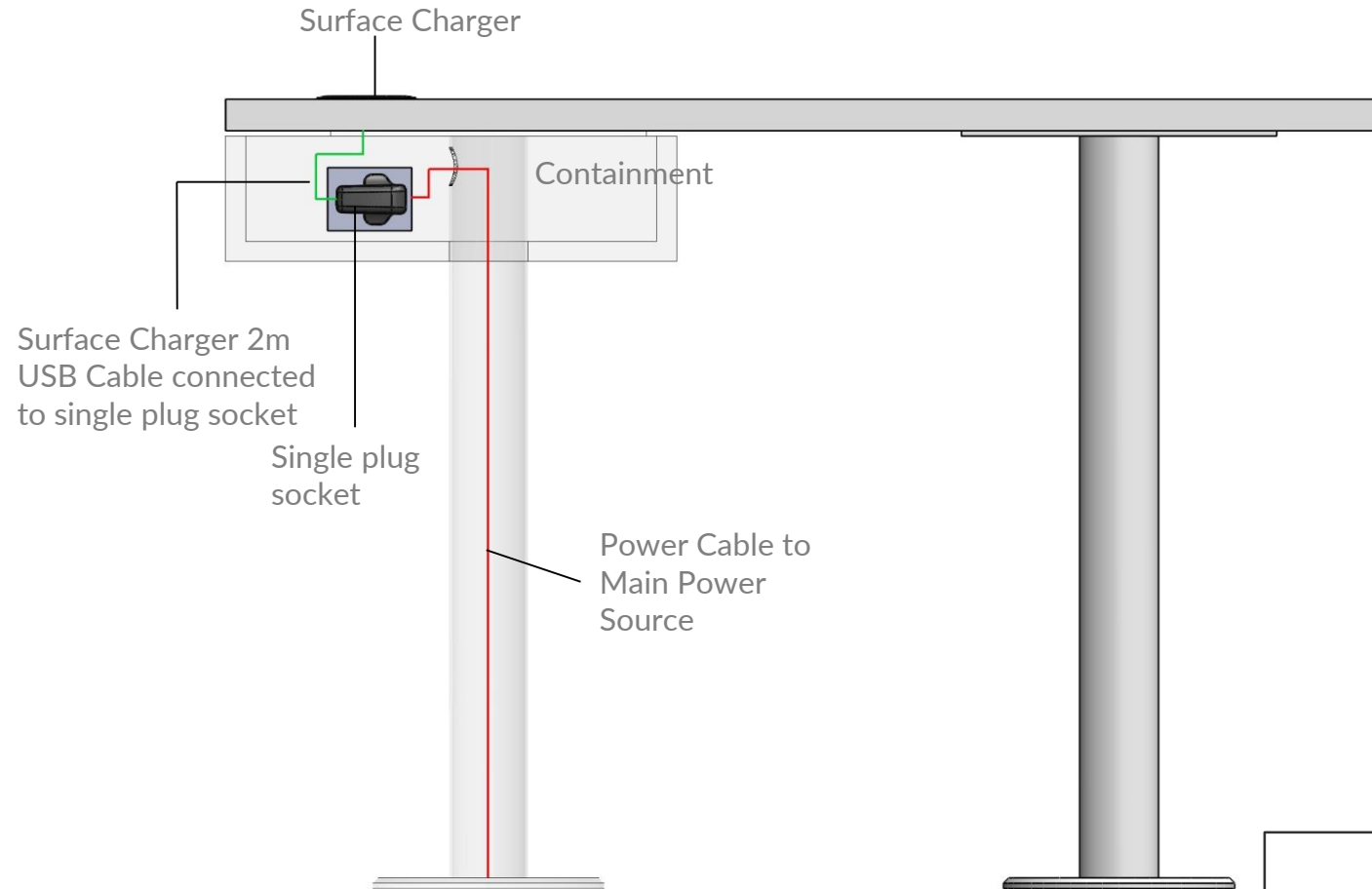
Communal Table: 6 Chargers
 Wiring Instructions

DO NOT SCALE DRAWING

POWER SUPPLY REQUIREMENTS



WIRING INSTRUCTIONS



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Booth Table: 4-Seater
 Power Source

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D-LINE TRUNKING

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<u>Variations on Layouts</u>	<u>46</u>
<u>Securing trunking over surface chargers</u>	<u>48</u>
<u>Hiding cables and sealing trunking</u>	<u>49</u>

D-LINE TRUNKING: SUMMARY

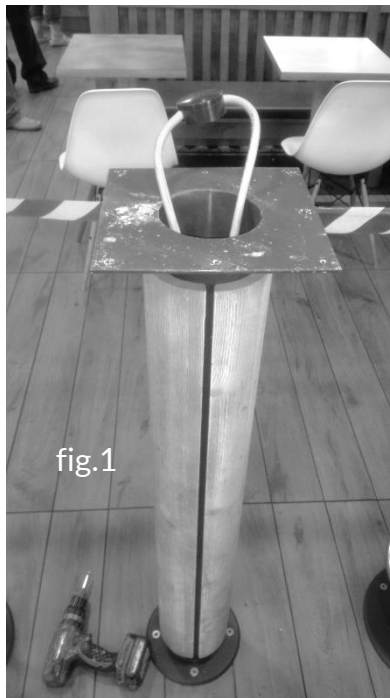


fig.1

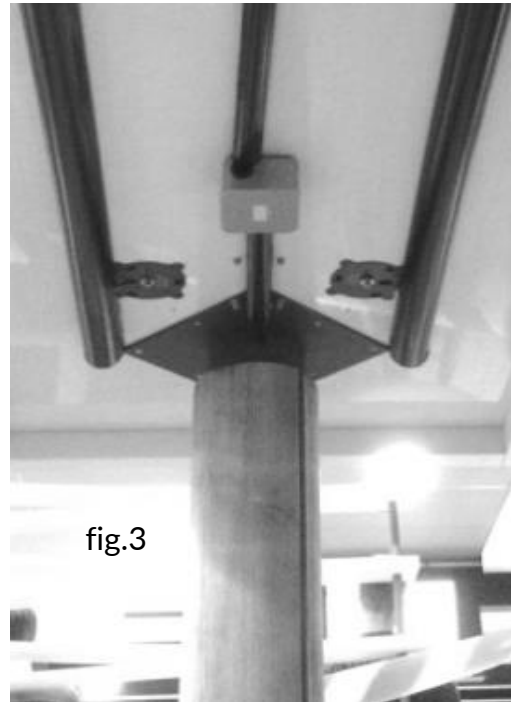


fig.3

In the event there is no containment then a fixed spur to underside of counter is the ideal solution. Please note that some contractors have a habit of terminating the 3 core in the leg of the table which requires the installer to:

1. Locate the two cables terminated by a terminal block (within the leg of the communal table – see fig.1). Access this space which requires the removal of the table top.
2. Route a feed to the underside of the counter top to provide power to the 4 Port USB hub which requires us to wire an additional 3 core cable and feed it through a hole in the leg which would need to be drilled. See fig.2.

3. Wire the feed from above and wire into a fixed spur. See fig. 3.

The contractor would then simply hardwire the power cables from the 4 Port USB Hubs into one spur. As each surface charger is a 5W device this mode of operation is fine.



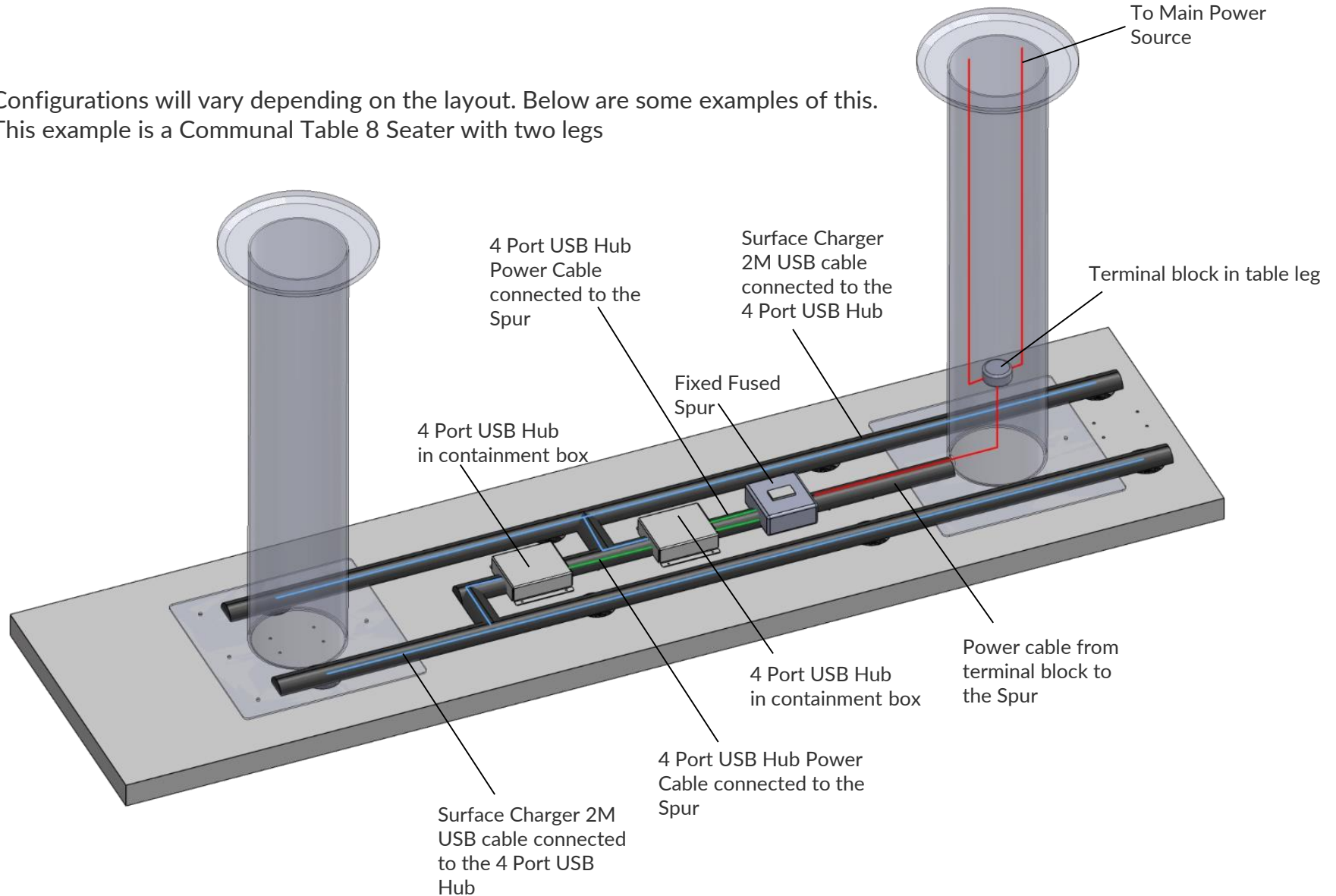
fig.2

VARIATIONS ON TUNKING LAYOUTS



VARIATIONS ON TUNKING LAYOUTS

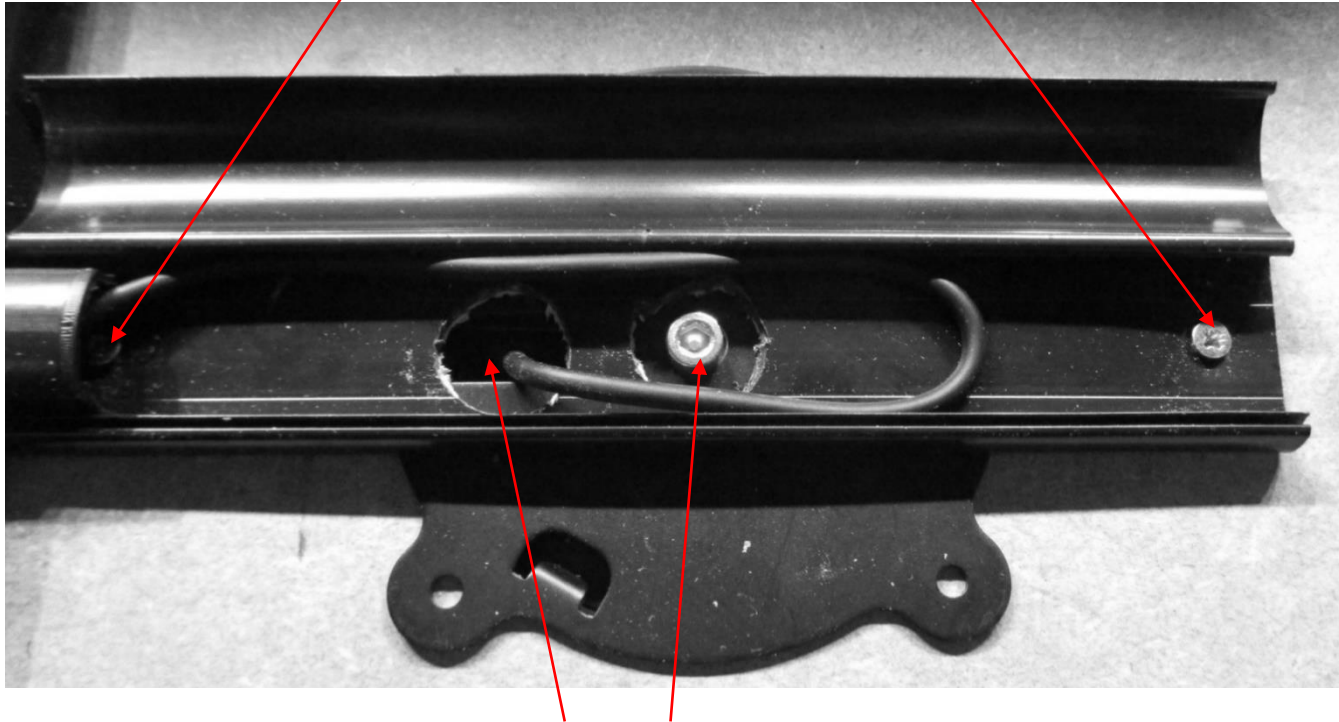
Configurations will vary depending on the layout. Below are some examples of this.
This example is a Communal Table 8 Seater with two legs



SECURING TRUNKING OVER SURFACE CHARGERS

This is a photo to show how to secure the D-Line trunking over the Surface Chargers. This is important to prevent unwanted access.

Two self tapping wood screws either side of fixing plate to secure trunking.

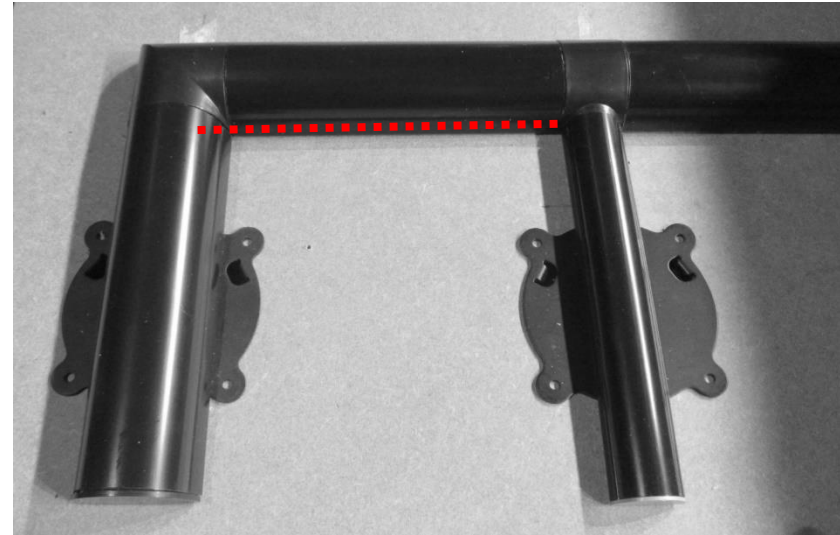


Two holes drilled into trunking for M5 screw head opening and USB cable entry using 18mm spade drill. These holes could be added prior to installation as they should always be the same distance from the end of each branch.

HIDING CABLES AND SEALING TRUNKING



Excess USB cable can be comfortably enclosed in 50 x 25mm branch sections.



To prevent access to cables – insulation tape can be used to seal the trunking.

AIRBRIDGE INSTALLATION INSTRUCTIONS

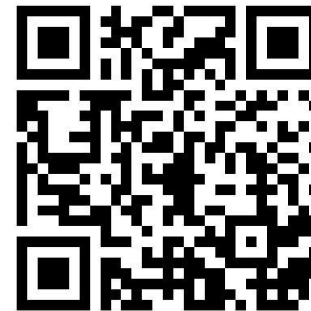
Section	Page #
<u>Removing existing PODs</u>	<u>51</u>
<u>Preparation of the surface for installation</u>	<u>52</u>
<u>Installation of the Airbridge (Nylon)</u>	<u>53</u>
<u>Installation of the Airbridge (Glass/Aluminium)</u>	<u>54</u>



An Airbridge Installation Video Guide is available.

iPhone Users:
Just point your camera at the QR code.

Other devices:
Download a QR Reader from your App store.

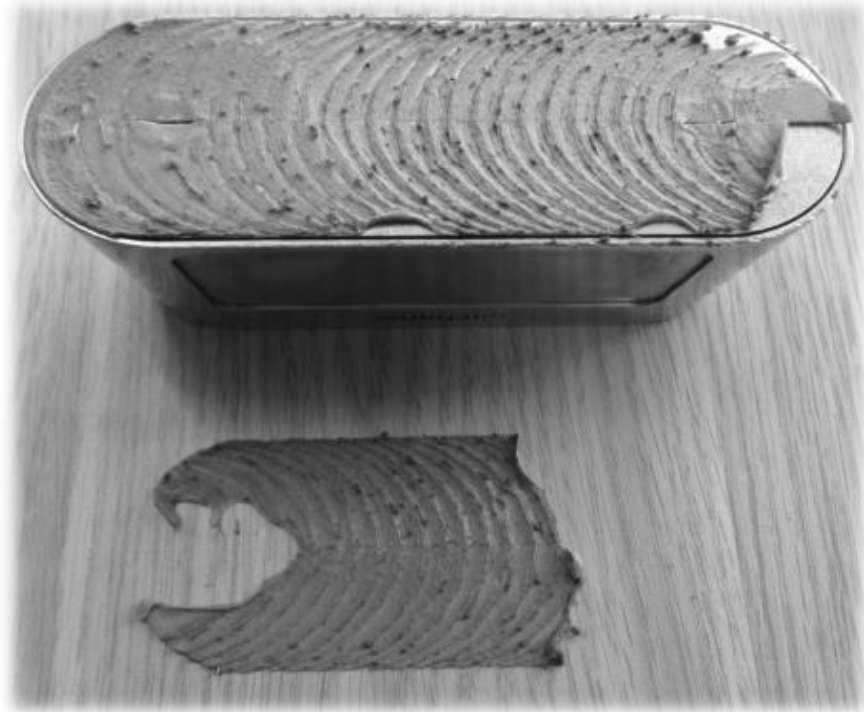


REMOVING ALUMINIUM PODS

IF APPLICABLE



In the event that an Aluminium PoD is already installed in this location, or if an Airbridge is positioned incorrectly or becomes damaged and needs replacing, a wire cutting tool can be used to cut through the adhesive and remove the block. This will leave a residue on the surface which can be easily peeled off by hand.



PREPARING THE SURFACE

Using a 3M VHB Wipe, clean the surface where the Airbridge is to be installed.

Ensure that the surface is free of dirt, dust and grease in order to ensure a strong bond is created.



INSTALLATION OF THE AIRBRIDGE: NYLON SURFACE CHARGER

A template is required to ensure the correct positioning of the Airbridge in relation to the surface charger.



Place the Template over the surface charger, ensuring that the Aircharge logo is facing the customer.



Place the Airbridge within the smaller section of the template, facing directly forward.



Pull the arm of the bridge down to ensure that the centre of the orb aligns with the centre of the charger.

INSTALLATION OF THE AIRBRIDGE: GLASS OR ALUMINIUM SURFACE CHARGER



To position the Airbridge, measure 87mm vertically from the centre of the Glass Surface Charger and mark this position. This will be the centre point of the Airbridge.

See TABLE POSITIONING: SURFACE CHARGER AND AIRBRIDGE

Pull down the Airbridge arm, ensuring that the centre of the orb sits over the centre of the Surface Charger.

Once the position has been confirmed, remove the 3M backing strip and apply charger to the marked location with the bridge arm down.





Thomas Ketterer

Aircharge Partner

Deutschland – Österreich - Schweiz

M DE: 0171 81 68 114

T DE: 09154 911 80 25

T AT: 0720 512 638

T CH: 0325 113 864

W: www.air-charge.de

E: thomas@air-charge.de

Skype: TK-Work