

Enabling Works: Twin 22kW (External)

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Project Name	Enabling Works: Twin 22kW (External)
Project ID	Fix and Commission Client Requirements
Document Author	Bradley Turk
Approved By	Kostas Papadakis

Revision History

VERSION	EDITOR	REVISION DATE	CHANGES
1			



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ELECTRICAL WORKS

Distribution Board

Must have enough capacity for the proposed charge point(s) with no diversity applied to the EVCP (64A three phase, per unit).

Circuit Protection (install either Option 1 or Option 2)

Option 1:

(2x) C40 TP MCB – Dual Supply



Option 2:

C80 TP MCCB



Cable

- 4 core SWA cable (L1+L2+L3+N; (2x) 6mm² min. for C40 MCB's and 16mm² min for C80 MCCB subject to volt drop calculation)
- At the EVCP, 1m of cable (from the foundation) must be left for connection
- Each EVCP circuit must be a dedicated radial
- All cables must be installed to the current wiring regulations and adequately rated for the intended load
- All power cables must include a CPC
- The maximum cable size that can be terminated into the unit is 25mm
- 16mm² sheathed green/yellow or 2.5mm² earthing cable (when protected against mechanical damage and corrosion) should be provided between the earth rod and EVCP



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CIVIL WORKS

Concrete Foundation

- 600mm x 600mm x 400mm (WxLxD) non-reinforced concrete
- Ducting must be run directly into the centre of the foundation
- The foundation must have a flush and level surface finish
- The back of the foundation must be at least 200mm away from any wall/obstacle



Earthing

- Earth pit must be installed next to the unit foundation (within 5m)
- Sink earth rod (ensure this is clear of any underlying services)
- Earth reading must be under 100 ohms



Ducting

Supply Cable Duct:

- Continuous twin wall duct for the entirety of the run into the centre of the EVCP concrete foundation
- Minimum depth of 450mm except roadways where depth should be 600mm
- Minimum size of 63mm (should be adequate for the cable size running through)

Earth Cable Duct:

- Continuous twin wall duct for the entirety of the run, from the centre of the EVCP concrete foundation (next to the supply duct), to the earth pit
- Minimum size of 50mm

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POD POINT (Fix & Commission Works)

- Bolt down the EVCP and guard rail to the concrete base
- Connect the EVCP to circuit (charger end only)
- Functional testing and commissioning of EVCP
- Conduct site handover

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Company Details

Tel: 020 7247 4114

Email: Enquiries@pod-point.com

Web: www.pod-point.com

Registered Office:

Gnd floor,
Discovery House,
28-42 Banner St,
London
EC1Y 8QE

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