

Project Information

Site Address: 23 Church End Lane, Tilehurst, Reading, RG30 4XA

Drawing Reference: PL/A724/07 – Proposed Site Plan Hard & Soft Landscape Layout

Document Reference: PL/A724/D06 – EV Charging Point Specification

Application Type: Approval of details reserved by condition (APP. REF. PL/25/0273)

CONDITION 17: ELECTRIC VEHICLE CHARGING POINT SPECIFICATION

1. Charging Point Overview

Type of Charger:

- Level 2 (Fast Charger)
- Power Rating: Minimum of 7 kW (standard for residential use).

2. Socket Type

Socket Type: Universal Type 2 (untethered) socket for flexibility, allowing users to connect their own charging cables.

3. Mounting Location

- Mounting Type: Wall-mounted or Pedestal-mounted (depending on your layout).
- Mounting Height: The socket should be mounted between 0.75m and 1.2m above the ground to meet accessibility standards.

4. Status Indicators

Visual Display: The charger must be fitted with a status indicator (LED lights or a digital display) to show the charging status:

- Green (charging in progress)
- Red (error)
- Blue (charging complete)

5. Safety Features

- Electrical Compliance: The charger must comply with the following safety standards:
- BS EN 61851 (Standard for electric vehicle conductive charging system)

IET Code of Practice for EV Charging Equipment

- Circuit Protection: Each charger must be connected to a dedicated circuit with an appropriate overcurrent protection device (e.g., a circuit breaker rated for 32A).

6. Electrical Supply and Installation

Electrical Supply:

- Charger should be connected to a dedicated electrical circuit from the distribution board.
- The supply should be rated for 240V for Level 2 charging.

Cabling: The cabling should comply with BS 7671 (wiring regulations), using appropriately rated cables for the power demand of the charger.

7. Smart Charging Features (if applicable)

Smart Charging:

- The charging point must comply with the Electric Vehicles (Smart Charge Points) Regulations 2021, supporting off-peak charging and demand-side response features, allowing users to schedule charging during times of lower electricity demand (e.g., night-time).

8. Environmental and Accessibility Features

- Weatherproofing: The charger should have a minimum IP44 rating for weather resistance (if installed outdoors).
- Accessibility: Ensure the charger is accessible for all users, including those with mobility impairments. If a pedestal-mounted charger is used, ensure it is positioned within easy reach of all potential users.

9. Charging Speed

- Charging Speed: The charger will provide a minimum of 7 kW of charging power. At this rate, it will typically take 4-6 hours to charge most electric vehicles (depending on the vehicle's battery capacity).

10. Future-Proofing

- Additional Infrastructure: Provide cable routes for future expansion. If you plan to add more charging points in the future, ensure that the electrical panel has sufficient capacity to support additional chargers.

11. Installation and Certification

- Installer: The installation must be carried out by a competent person (e.g., a registered electrician) to ensure compliance with the Electrical Safety Regulations (Part P) and BS 7671.
- Certification: The installation should be certified by the electrician to confirm that it meets all required standards and regulations.



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Summary

- Power Output: 7 kW (Level 2 charger)
- Socket Type: Type 2 (untethered)
- Mounting Height: Between 0.75m and 1.2m
- Status Indicator: Visual lights showing charging status
- Safety Compliance: BS EN 61851 and IET Code of Practice
- Electrical Supply: Dedicated 32A circuit with proper overcurrent protection
- Smart Charging Features: Off-peak charging capability
- Installation: Certified by a registered electrician