

CPF50

Network Charging Station

Site Design Guide



IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS



WARNING: This manual contains important instructions for Home Flex. When using electric products, always follow basic precautions, including the following:

WARNING:

1. **Read and follow all warnings and instructions before servicing, installing, or operating the ChargePoint® charging station.** Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty.
2. **ChargePoint recommends that installation, commissioning, and break-fix services be performed by a licensed electrician who is also a ChargePoint-certified technician.** These systems operate at high voltage, and without strict adherence to safety protocols, proper protective equipment, and ChargePoint technical guides, there is significant risk to people, equipment, and the environment. Please ensure full compliance with all applicable local and national buildings, electrical, and safety codes.
3. **Always ground the ChargePoint charging station.** Failure to ground the charging station can lead to risk of electric shock. The charging station must be connected to a grounded, metal, permanent wiring system, or an equipment grounding conductor should be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all applicable codes and ordinances.
4. **Install the ChargePoint charging station on a concrete pad using a ChargePoint-approved method.** Failure to install on a surface that can support the full weight of the charging station can result in death, personal injury, or property damage. Inspect the charging station for proper installation before use.
5. **This charging station is not suitable for use in Class 1 hazardous locations, such as near flammable, explosive, or combustible vapors or gases (This charging station is not suitable for use in any ATEX classified area, such as near flammable, explosive, or combustible vapors or gases).**
6. **Supervise children near this device.**
7. **Do not put fingers into the electric vehicle connector.**
8. **Do not use this product if any cable is frayed, has broken insulation, or shows any other signs of damage.**
9. **Do not use this product if the enclosure or the electric vehicle connector is broken, cracked, open, or shows any other signs of damage.**
10. **Use only copper conductor wire rated for 90 °C (194 °F).**





11. Do not operate the charging station in temperatures outside its operating range of -40 °F to 122 °F (-40 °C to +50 °C).
12. Ensure the charging cable is positioned so it is not stepped on, tripped over, or subjected to damage or stress. Do not close a garage door on the charging cable.



IMPORTANT: Under no circumstances will compliance with the information in a ChargePoint guide such as this one relieve the user of the responsibility to comply with all applicable codes and safety standards. This document describes approved procedures. If it is not possible to perform the procedures as indicated, contact ChargePoint. ChargePoint is not responsible for any damages that may result from custom installations or procedures not described in this document or that fail to adhere to ChargePoint recommendations.

Warranty Implication



IMPORTANT: Please be advised that all installation, commissioning, and break-fix services must be performed by a ChargePoint-certified technician. Engaging non-certified personnel for these services will result in warranty implications, as doing so constitutes a breach of policy.

Support Services

<https://www.chargepoint.com/legal/support-services>

For more information about ChargePoint's training and certification program, visit

<https://www.chargepoint.com/partners/training-certification>

Product Disposal

Applicable to NA - Do not dispose of as part of unsorted domestic waste. Inquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



Applicable to EU - To comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), devices marked with this symbol may not be disposed of as part of unsorted domestic waste inside the European Union. Enquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



Document Accuracy

The specifications and other information in this document were verified to be accurate and complete at the time of its publication. However, due to ongoing product improvement, this information is subject to change at any time without prior notice. For the latest information, see our documentation online at [ChargePoint Product Reference Documentation](#).

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Symbols

This guide and product use the following symbols:



DANGER: Risk of electric shock



WARNING: Risk of personal harm or death



CAUTION: Risk of equipment or property damage



IMPORTANT: Critical detail that must be followed to achieve intended results



NOTE: Important contextual details or procedural clarifications



REINSTALL NOTE: Essential instructions to follow when reinstalling a part or component



Read the manual for instructions



Ground/protective earth

Illustrations Used in This Document

The illustrations used in this document are for demonstration purposes only and may not be an exact representation of the product. However, unless otherwise specified, the underlying instructions are accurate for the product.

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Revision History

This page provides a summary of revisions made, listing the month and year of each update along with a brief description of the changes made.

Month & Year	Description
July, 2026	Added information for the non-CMK pedestal in the Civil and Mechanical Design and Mounting Options chapters.
November, 2025	This version includes the following changes: • Introduced a new Connectivity chapter detailing procedures for testing cellular connectivity. • Inserted an image on the title page depicting the new pedestal with integrated cable management. • Added missing annotations in the Wall Mount Stations section. • Added a comprehensive weight table to the Civil and Mechanical Design section for reference. • Added a new chapter on Mounting Options, covering both wall mount and pedestal mount.

Introduction 1

This topic describes how to design a project site for the ChargePoint® CPF50 charging station for electric vehicles. This includes guidelines and best practices for electrical infrastructure and capacity planning, construction and concrete work required prior to installation of charging stations, and cellular signal requirements.

For full specifications and certifications for CPF50 charging stations, refer to the CPF50 Datasheet found online at: [ChargePoint Product Reference Documentation](#).

CAUTION: Warranty Limitation



- If the charging station is not installed, commissioned, or serviced by a ChargePoint certified technician using a ChargePoint-approved method, it is *excluded* from all ChargePoint and other warranties and ChargePoint is not responsible.
- You must be a licensed electrician and complete training at <https://www.chargepoint.com/partners/training-certification> to become ChargePoint certified and to access ChargePoint's web-based installer tools or ChargePoint Installer app.

Initial Site Guidelines

ChargePoint recommends the CPF50 charging station solution for fleet/depot installations and multi-family residential properties. A networked CPF50 charging station installation allows property managers to have complete control of the charging station policies, including who can use the stations and how much drivers pay to use the stations.

An onsite evaluation is needed to determine conduit and wiring requirements from the panel to the proposed parking spaces, construction and concrete requirements for mounting the charging stations, as well as to measure cellular signal levels for the Gateway (if required) and identify suitable locations for any necessary cellular signal booster equipment.

Electrical Requirements

Review the CPF50 Datasheet at [ChargePoint Product Reference Documentation](#). Each Level 2 charging station requires:

- A dedicated single phase electrical circuit.
- A new dual pole breaker circuit breaker at the electrical panel.

- Conductor wiring sized in accordance with the National Electric Code requirement for 125% capacity for continuous load for all branch circuits from panel to stations via raceway or conduit.

The CPF50 delivers up to 50 A per charging station. Determine the amperage rating of the circuit to install based on the desired amperage to be delivered:

Circuit Rating	Charging Current
70 A	50 A
60 A	48 A
50 A	40 A
40 A	32 A
30 A	24 A
20 A	16 A

If power capacity is limited at a site or to reduce costs for electrical infrastructure, consider ChargePoint Power Management options for power sharing at the circuit level, panel level, transformer, or site level.

Cellular Connectivity

The CPF50 charging station has its own cellular connection. Earlier models of CPF50 require that the ChargePoint Gateway is installed for cellular connectivity. To determine whether the CPF50 model has its own cellular connectivity, look for the label at the bottom of the station, which indicates the model name. A model name with CPF50-K will have a cellular modem, while a model name with CPF50 will require the ChargePoint Gateway for cellular connection. If the ChargePoint Gateway is required, each CPF50 must be installed within 45 m (150 ft) of the Gateway within line of sight.

A strong cellular connectivity is required to allow ChargePoint to communicate with the station. A connection is needed for station owners and operators to access these features:

- User authentication, access control, and billing
- Energy usage reporting
- Charging station utilization and charging session details for analytical reporting
- Automatic power management
- Real-time charging status to drivers using the ChargePoint mobile app or web portal
- Ability for drivers to use the ChargePoint mobile app and Tap to Charge, Apple Pay, or Android Pay on their smartphone to start and stop sessions
- Notifications to drivers when vehicle battery is full or stops charging
- Notifications to drivers prior to pricing increases for overstay of parking at EV spots
- Station fault alarms and remote diagnostic capability
- Over-the-air software upgrades for new station features or enhancements

If you have preexisting infrastructure or are using your own preferred electrical contractor to prepare your site, a Site Validation by a ChargePoint Operations and Maintenance (O&M) partner is required to certify compliance with electrical specification requirements, and to ensure everything was prepared to ChargePoint specifications.



IMPORTANT: Always check local codes or consult an engineer to ensure the site is prepared in compliance with all applicable regulations. Local authorities might not allow a unit to operate if it is not installed to code.

Charging Station Placement



WARNING: The charging station must be installed on a level concrete base or a flat wall rated for the weight of the station. Asphalt cannot support the full weight of the station. Failure to install the station on a suitable surface may cause the station to tip over, resulting in death, personal injury, or property damage.

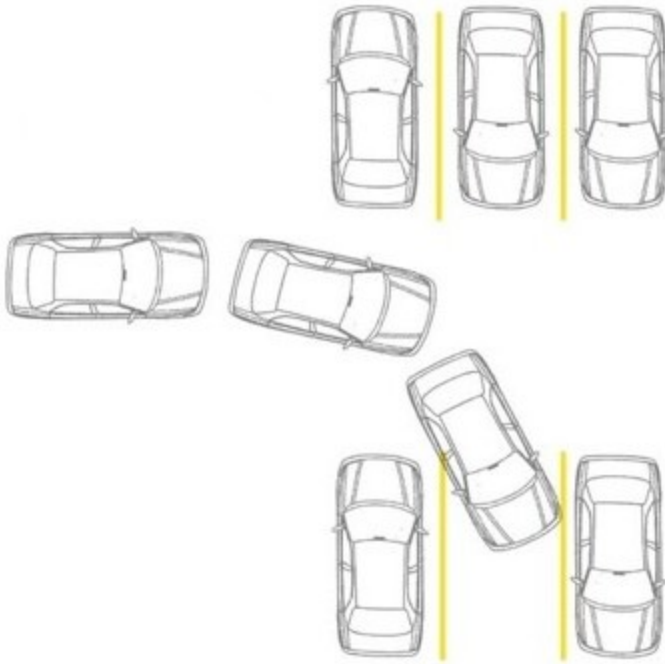
Layout Considerations

- Identify station locations for EV charging spots.
- To help minimize costs, choose station locations that are as close as possible to the available electrical infrastructure.
- Determine raceway or conduit runs for electrical wiring from the electrical panel and consider a layout to minimize linear conduit costs to all proposed EV parking spaces.
- If possible, avoid or minimize trenching requirements, especially more costly trenching to run conduit under asphalt surfaces.
- Consider locations where it will be easy to add future stations.
- Identify suitable locations with smooth, plumb surfaces for wall mount stations or suitable floor surfaces for pedestal mount stations.
- Consider ADA compliance. The charging station must not block ramps or pathways, and cables should not extend across ramps or pathways when connected to a vehicle.
- Choose adjacent parking spaces in an area with adequate lighting.

- For stall parking, ChargePoint prefers using perpendicular parking stalls to better accommodate vehicles with front and rear charge ports.



NOTE: While ChargePoint tests charging stations with a majority of upcoming vehicles, ChargePoint cannot guarantee the port locations of future vehicles and cannot warrant the configurations proposed will work for all vehicles.



- Consider how easily drivers can find the stations they need to access.
- Use dual-port pedestal mount stations where possible in open areas for adjacent parking or adjoining parking spaces.
- Consider protective bollards and wheel blocks where appropriate, especially for open tandem parking spaces.

Electrical Considerations

- Evaluate existing electrical infrastructure to determine if the existing utility service and electrical panel capacity is sufficient.
- Ensure the electrical wiring, overcurrent circuit protection, and metering (if required) is in place by reviewing the datasheet, as well as the wiring diagram and grounding requirements in this document.
- Ensure that you use 16 mm² (6 AWG) or 10 mm² (8 AWG) wire to the station. If you will be feeding the station with larger wire like 25 mm² (4 AWG), you will need to splice the wire for 16 mm² (6 AWG) or 10 mm² (8 AWG). For each charging station, only three wires are required: L1, L2, and Ground.



NOTE: Neutral must be bonded to Ground upstream at the transformer or panel for each separately derived system.

- Identify costs for any necessary upgrades and/or a new dedicated electrical panel. Size all conduit and electrical wiring in accordance with the National Electric Code requirements. ChargePoint recommends using a certified electrician to evaluate available capacity and identify any upgrades that may be required.
- If a dedicated EV electrical panel is required, choose a panel location in close proximity to the existing electrical supply.

Power Management

Using ChargePoint Power Management technology, sites can install more stations than otherwise would be supported by the available electrical service. A maximum aggregate load is defined for a group of charging stations, and ChargePoint cloud-based services manage the individual power output of each station (or port) to ensure the maximum load is never exceeded.

As shipped, a CPF50 charging station provides up to 50 A of output current to each charging station.

For more information on ChargePoint Power Management considerations, see the [ChargePoint Power Sharing Reference Guide](#).

Additional Considerations

- Determine appropriate mounting type: wall mount vs. pedestal mount.
- Use dual-port pedestal mount stations where possible in open areas for adjacent or tandem parking spots. Establish the quantity of each type of charging station in the initial order.
- Measure cellular signal levels using professional cellular test equipment to ensure adequate cellular coverage at the Gateway installation location, if required.
- To ensure adequate cellular signal strength in underground or enclosed parking structures, cellular repeaters may be required. Use an indoor antenna located near EV parking spaces and an outdoor antenna typically located at the garage entrance ceiling or on the rooftop where cellular signals are best.
- Determine cost budget options for electrical infrastructure to satisfy current needs and future needs. Prioritize charging stations locations based upon immediate and future needs, construction timelines, and costs.

Plan for the Future

Keep in mind not only current EV charging needs, but future needs as EV adoption grows.

- Consider running raceway or conduit to all planned EV parking spots, but pulling electrical wiring from the panel to meet current needs.
- Consider installing a dedicated electrical panel for EV charging, then leverage ChargePoint Power Management to efficiently use available power at a site to support more EV charging ports than would otherwise be possible without power management.

Civil and Mechanical Design 2

The following table provides gross weights for CPF50 station bundles, including packaging, to support accurate site planning and footing calculations. These values are based on complete SKU configurations and are intended for use by project designers and installers.

Component	Weight (lbs)
CPF50-K-GW-LTE-L18-USA	8.16 kg (18 lbs)
CPF50-L18-WALLMNT-CMK6-GW-USA	31.2 kg (69 lbs)
CPF50-L18-PEDMNT-CMK6-GW-USA	43 kg (95 lbs)
CPF50-L18-PEDMNT-GW-USA	22.6 kg (50 lbs)
CPF50-L18-PEDMNT-CMK6-Dual-GW-USA	53 kg (117 lbs)
CPF50-L18-PEDMNT-Dual-GW-USA	30.8 kg (68 lbs)
CPF50-L23-GW-USA	8.16 kg (18 lbs)
CPF50-L23-WALLMNT-CMK8-GW-USA	44.4 kg (98 lbs)
CPF50-L23-PEDMNT-CMK8-GW-USA	56.2 kg (124 lbs)
CPF50-L23-PEDMNT-GW-USA	22.6 kg (50 lbs)
CPF50-L23-PEDMNT-CMK8-Dual-GW-USA	66.2 kg (146 lbs)
CPF50-L23-PEDMNT-Dual-GW-USA	30.8 kg (68 lbs)
CPF50-L23-GW-NACS-USA	8.16 kg (18 lbs)
CPF50-L23-PEDMNT-CMK8-Dual-GW-NACS-USA	66.2 kg (146 lbs)
CPF50-L23-PEDMNT-Dual-GW-NACS-USA	30.8 kg (68 lbs)
CPF50-L23-PEDMNT-GW-NACS-USA	22.6 kg (50 lbs)

The ChargePoint CPF50 can be installed as a wall mount or a free-standing pedestal. Both options are suitable for indoor or outdoor use. Installation requires a licensed professional to ensure compliance with all safety and electrical codes. The stations are available in CMK or non-CMK variants.

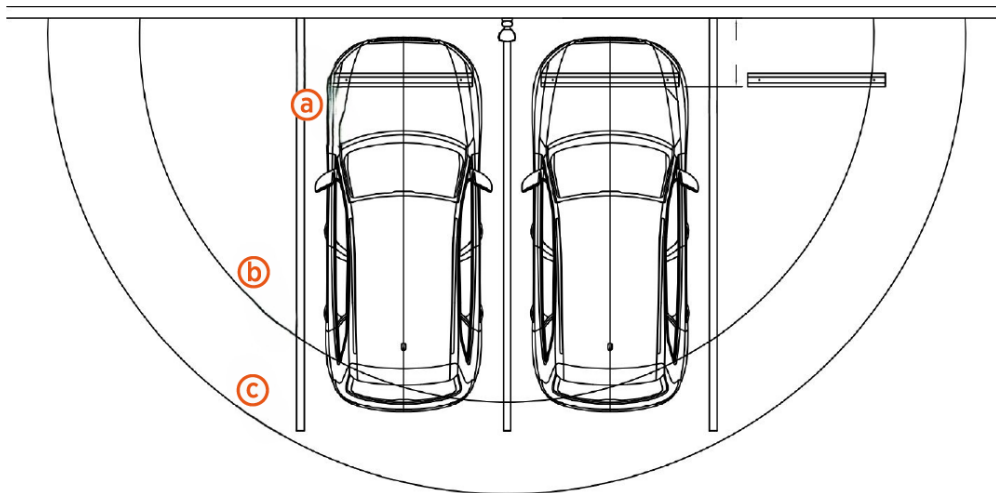
Wall mount Stations: The station is mounted on a flat wall using a back bracket. This is suitable for locations where there is a suitable wall, such as a garage or a building exterior.

Pedestal mount Stations: The station is mounted on a free-standing pedestal. This is ideal for locations like parking lots where there is no suitable wall available.

Wall Mount Stations

For wall mounted stations, the wall must be smooth, stable, and plumb. The minimum height of the wall must be 1250 mm (49 in). Place wheel stops (a) 900 mm (3 ft) from the wall. The arc shows the usable reach of

the two charging cable lengths available, 5.5 m (18 ft) **(b)** and 7 m (23 ft) **(c)**.



IMPORTANT: Ensure the wall supports the station. If mounting to a hollow wall, bridge at least two studs using a 41 mm (15/8 in) channel strut.



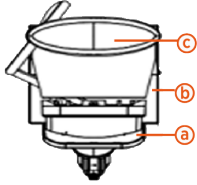
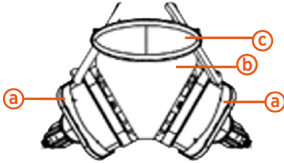
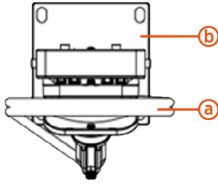
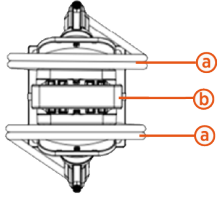
WARNING: If not installed correctly, the ChargePoint charging station may pose a fall hazard, leading to death, personal injury, or property damage. Always use the provided Concrete Mounting Template shown preinstalled here, or a ChargePoint approved surface mounting solution, to install the ChargePoint charging station. Always install in accordance with applicable codes and standards using licensed professionals. Non approved installation methods are performed at the risk of the contractor and void the Limited One-Year Parts Exchange Warranty.

Pedestal Mount Stations

There are several single-sided or dual-sided pedestal configurations available with or without CMK.

Feature	CMK Pedestal	Non-CMK Pedestal
CMK compatible	Yes	No
Single-sided	Yes	Yes
Dual-sided	Side-by-side NOTE: Stations face forward.	Back-to-back NOTE: Stations face left and right.

Refer to the following table for examples of CMK and non-CMK pedestal configurations:

Configuration	Single-Sided	Dual-Sided
CMK Pedestal (a) CPF50 charging station (b) Pedestal (c) CMK		
Non-CMK Pedestal (a) CPF50 charging station (b) Pedestal		

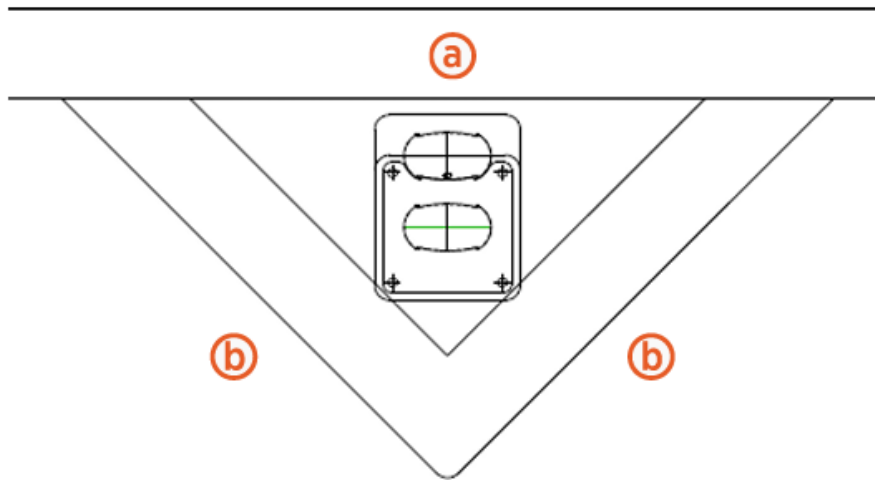
For newly poured pedestal mounted installations, the mounting surface must be smooth and cannot exceed a slope of 6 mm per 300 mm (0.25 in per ft). The concrete base must measure at least 600 mm (2 ft) on all sides. For installations in existing concrete, epoxy anchors can be used. Consult a civil engineer to ensure sufficient volume and strength of concrete.

There are three basic pedestal base designs:

- In front of a curb **(a)** 900 mm (3 ft) x 2 **(b)**

Area: 0.42 m² (4.5 ft²)

Volume: 0.26 m³ (9 ft³)



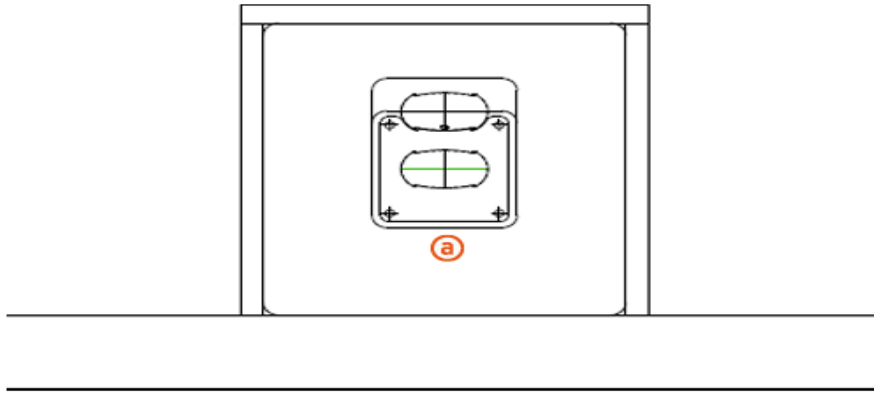
- Behind a curb (a) in a planter or berm 600 mm (2 ft) on each side

Area: 0.37 m² (4 ft²)

Volume: 0.23 m³ (8 ft³)



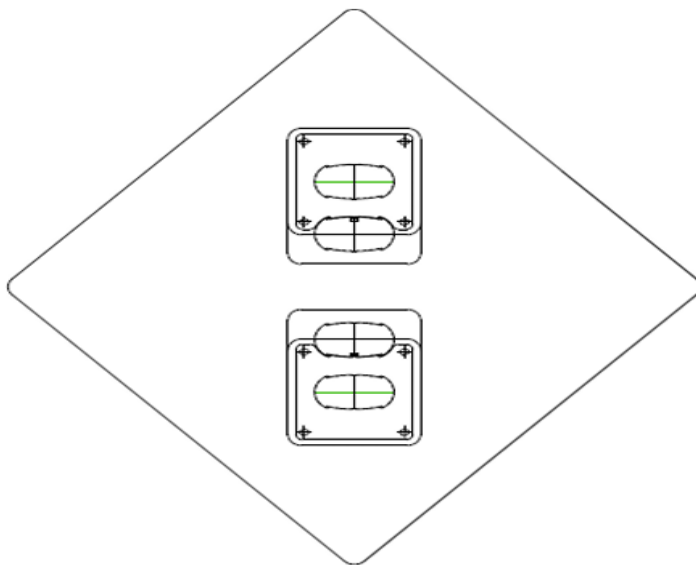
NOTE: Use a retaining wall as needed to prevent dirt from accumulating on the pad.



- Two stations back to back, centered between four spaces 900 mm (3 ft) on each side

Area: 0.84 m² (9 ft²)

Volume: 0.51 m³ (18 ft³)



Pedestal Configurations for Different Parking Arrangements

The pedestal base design can be configured in a variety of ways to serve different parking arrangements. Ensure a sufficient volume of concrete to provide anchoring for the charging station.

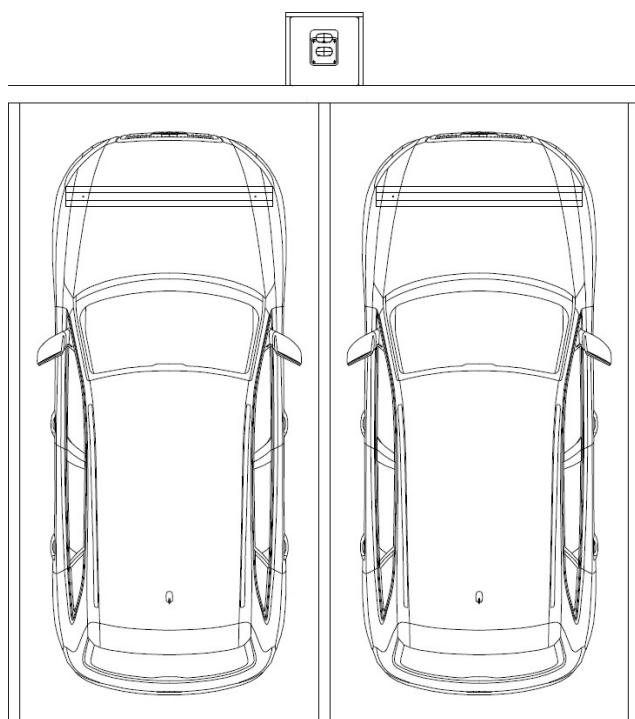


NOTE: The following parking configurations apply to both CMK and non-CMK pedestals unless otherwise noted. For a dual-sided CMK pedestal, two stations are mounted side-by-side facing forward. For a dual-sided non-CMK pedestal, two stations are mounted back-to-back facing left and right.

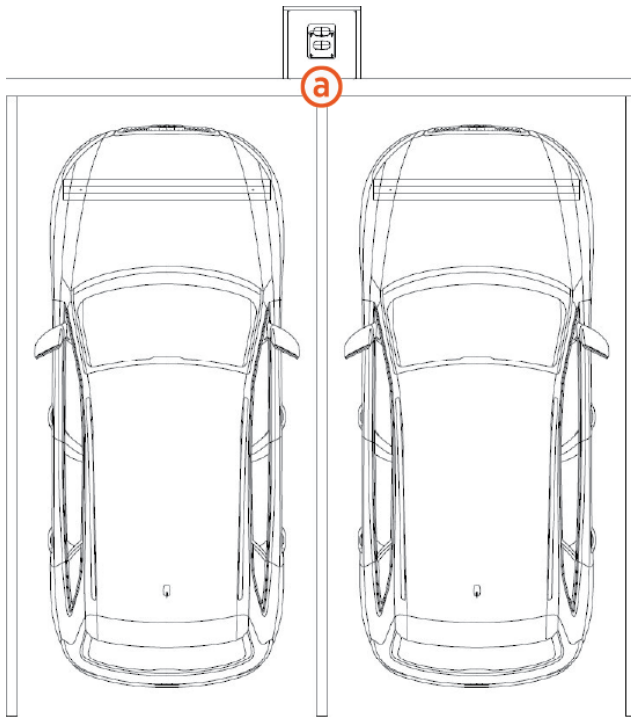


NOTE: ChargePoint charging stations are available in various product lines and configurations. Images in this document might not match your station exactly; however, the information is applicable unless otherwise noted.

1. Place the station against the curb between spaces with wheel stops 900 mm (3 ft) from the front of each stall. The base of the charging station can be flush with the parking spaces or at curb level.

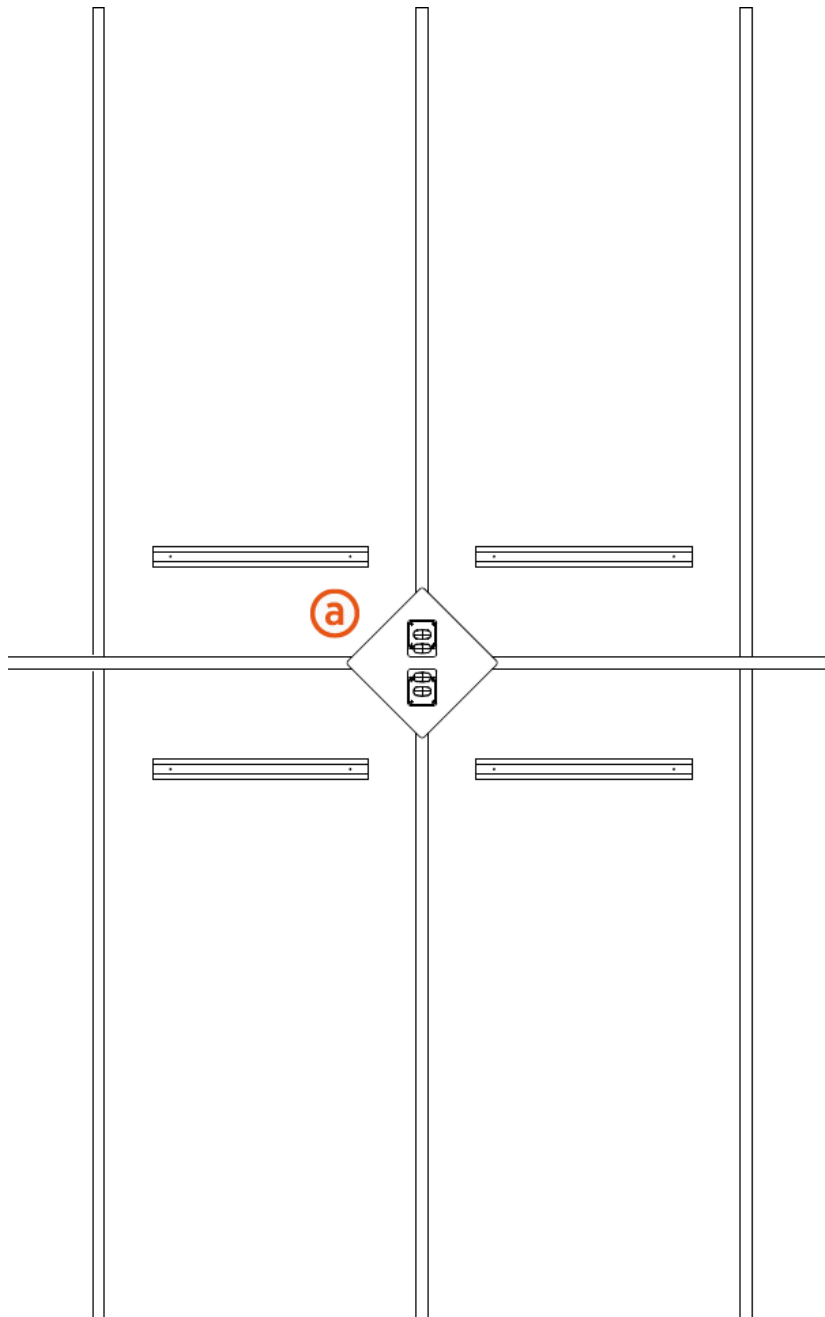


2. Place the station in a planter or berm between spaces with wheel stops 900 mm (3 ft) from the front of each stall or the curb **(a)**.

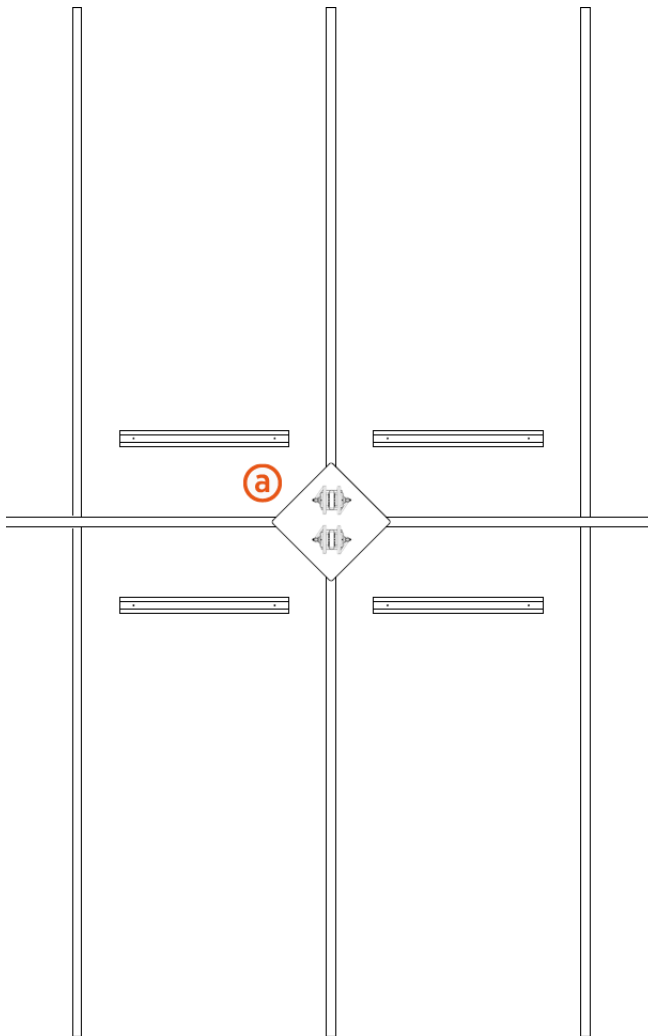


3. For configurations centered on four parking spaces, choose one of the following pedestal arrangements:

- Place two stations back to back centered on four spaces with wheel stops 900 mm (3 ft) from the front of each stall. The base of the charging station can be flush with the parking spaces or at curb level **(a)**.



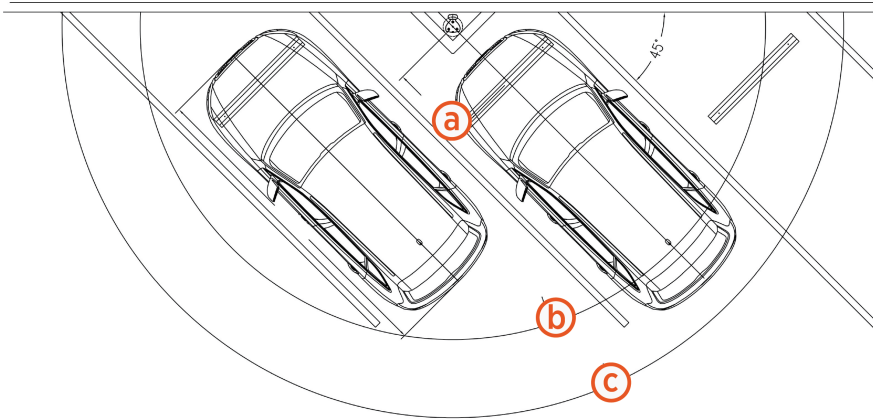
- Two dual-sided non-CMK pedestals: Place two non-CMK pedestals (a) back-to-back centered on four spaces. Rotate both pedestals 90 degrees so the stations face left and right. Place wheel stops 900 mm (3 ft) from the front of each stall. The base of the charging station can be flush with the parking spaces or at curb level.



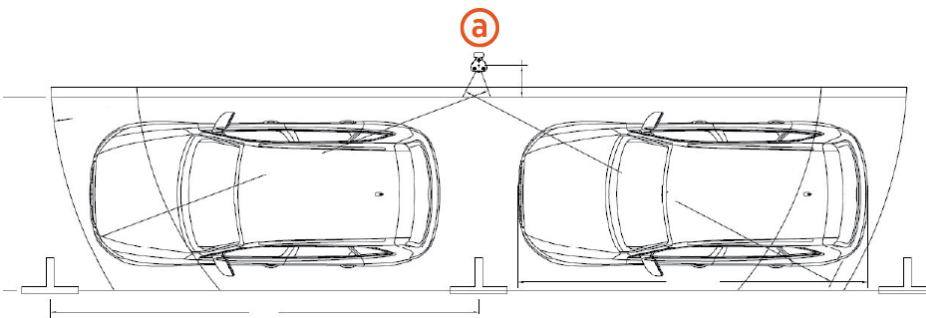
4. When placing a dual holster station centered on the right space, the charging cables can reach two vehicles. Place a wheel stop 1220 mm (4 ft) **(a)** from the center of the charging station.

Note the following details for this arrangement:

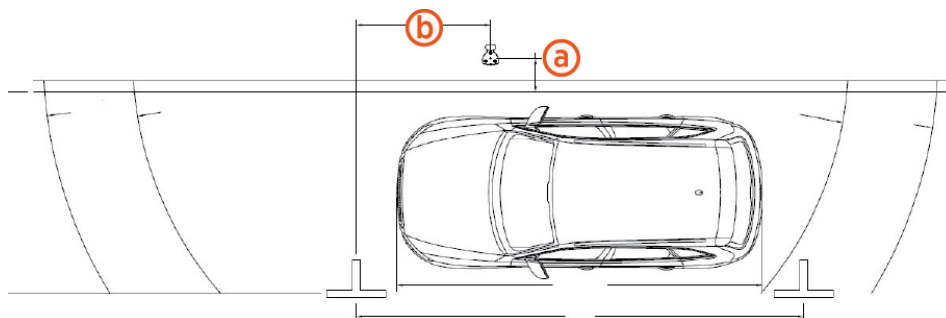
- The arc shows the usable reach of the two charging cable lengths available: 5.5 m (18 ft) **(b)** and 7 m (23 ft) **(c)**.
- The 7 m (23 ft) cord option is recommended for this configuration.
- The base of the charging station can be flush with the parking spaces or at curb level.
- Ensure to install **EV Charging Station** signs on both spaces.



5. Place a dual holster station centered between two parallel parking spaces, each 6 m (20 ft) long. Place the station **(a)** 450 mm (18 in) from the curb. A 7 m (23 ft) charging cable is recommended.



6. Place a single holster station for a single parallel parking space 6 m (20 ft) long. Place the station (a) 450 mm (18 in) from the curb, and 1.8 m (6 ft) from the front of the parking space (b). This allows the cord to reach any part of the vehicle without blocking the curb side doors.



Ensure any site slopes, walls, or fencing do not trap water around the charging station installation site. The system is only built to withstand water to the height of the conduit stub-up.



WARNING: Exposing the ChargePoint charging station to water above the height of the conduit stub-up could create an electrocution, shock, or fire hazard. Cut power to the charging station if it has been exposed to standing water and contact ChargePoint before the charging station is powered on.

For pedestal installations, the conduit stub-up must be a minimum of 230 mm (9 in) from any obstructions to the rear. This includes other charging stations. Check applicable codes for any additional clearance requirements.

Accessibility

To meet the accessibility requirements, the CPF50 charging cables are no more than 1220 mm (48 in) above ground and no more than 254 mm (10 in) away.

This complies with American Disability Act (ADA) requirements if the station is installed at grade. If your installation must comply with ADA standards, or the disability access regulations for other regions, consider this when designing the height of the pad or when planning a wall-mounted installation.

This complies with European disability requirements if the station is installed at grade. If your installation must comply with disability access regulations, consider this when designing the height of the pad or when planning a wall-mounted installation.

Also consider site design factors such as placement of bollards, wheel stops, or other vehicle obstacles when planning charging station access for disabled parking stalls. Check disability access regulations for guidance on the clearances needed for wheelchair access to charging cables and user interfaces.

Electrical Design 3

The wall mount CPF50 installation uses surface mount wiring. The pedestal mount CPF50 installation requires service wiring installed underground. (If a pedestal mount installation requires surface run conduit, contact ChargePoint before beginning work to obtain an approved installation method.) Conduit and wire size are determined based on the length of runs from the electrical panel to the station location. Service wiring must be run through conduit to comply with local electrical codes. Consult national and local codes or a project engineer to determine the grade, quality, and size of the conduit or cable. The CPF50 Concrete Mount Kit accommodates service wiring through the flare, conduit, or locally appropriate wiring method.



NOTE: All wiring and conduit is supplied by the contractor unless otherwise indicated.

Upstream Wiring

Charging stations are considered continuous load devices (EVs draw maximum load for long durations); therefore, electrical branch circuits must be sized at 125% of the load for North American installations, in accordance with National Electric Code (NEC) requirements. (For other regions, refer to local code.) This means that for a maximum 50 A load at 208/240 V output to an electric vehicle, 65 or 70 A breakers are required.

Wiring must be sized in accordance with NEC code for continuous load devices. Typically, 16 mm² or 10 mm² (6 AWG or 8 AWG) insulated electrical wire is used, depending upon the rating of the circuit and the distance between the electrical panel and the charging station. The terminal block accepts a maximum of 16 mm² (6 AWG).



IMPORTANT: The AC terminal blocks on the CPF50 accept a maximum size of 16 mm² (6 AWG) solid or stranded wires. If using a larger gauge wire to accommodate a long run, reduce the wire size at the disconnect.

When planning multiple EV charging stations, it is best practice to separate non-continuous from continuous loads, with all branch circuits for EV charging on a dedicated electrical panel assembly with adequate circuit breakers. When sizing new electrical panels dedicated for EV charging, all branch circuits must support continuous load, and the panel rating must be sized for at least 125% of the total load on each leg of a 3-phase panel.



CAUTION: The CPF50 charging station is tested to IEC 61000-4-5, Level 5 (6 kV @ 3000 A) standards. In geographic areas that experience frequent thunderstorms, appropriate supplemental surge protection is recommended to guard against product damage.



IMPORTANT: ChargePoint stations are UL 916 listed as Energy Management devices and are networked for real time communication to ensure they operate within the provisioned load allowance.

Conduit

The outside diameter of conduit must not exceed the sizes called out in the conduit layout drawing: 45 mm (1.8 in). Conduit stub-ups must not extend higher than 660 mm (26 in) above grade.

For wall mounted stations, flex conduit must be used to bring the wire to the station.

Wiring Requirements

For full product specifications, refer to the CPF50 Datasheet. Using that data, ensure that the installation location is equipped with service wiring that supports the CPF50's power requirements:

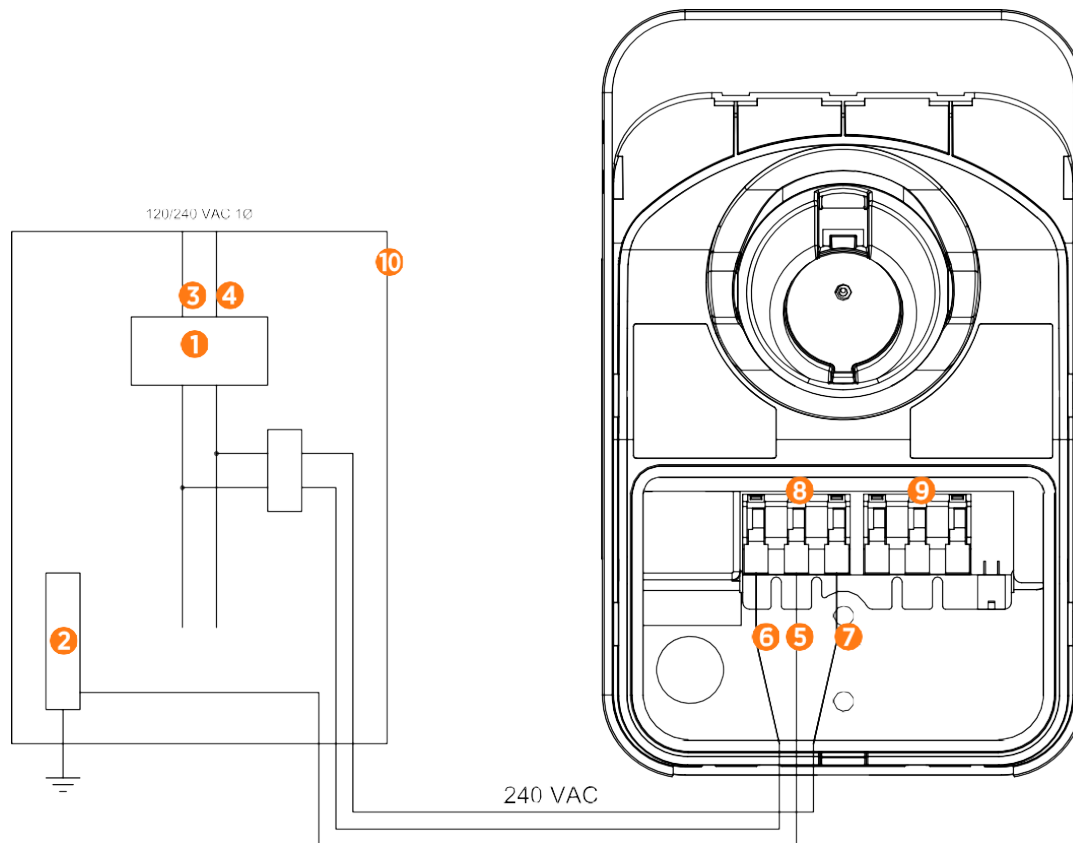
- AC conductors (L1, L2)
- Ground conductor

When pulling electrical wiring for CPF50 pedestal mount, ensure at least 1.5 m (5 ft) of wire remains above grade.

When pulling electrical for wall mounted stations, the conduit and wire must be brought to the location where the stations will be mounted. Flex conduit may be used to bring the wire to the station. Wiring is usually brought in via the bottom of the CPF50. The CPF50 has a 21 mm (3/4 in trade size) knock-out in the bottom and the rear of the charging station.

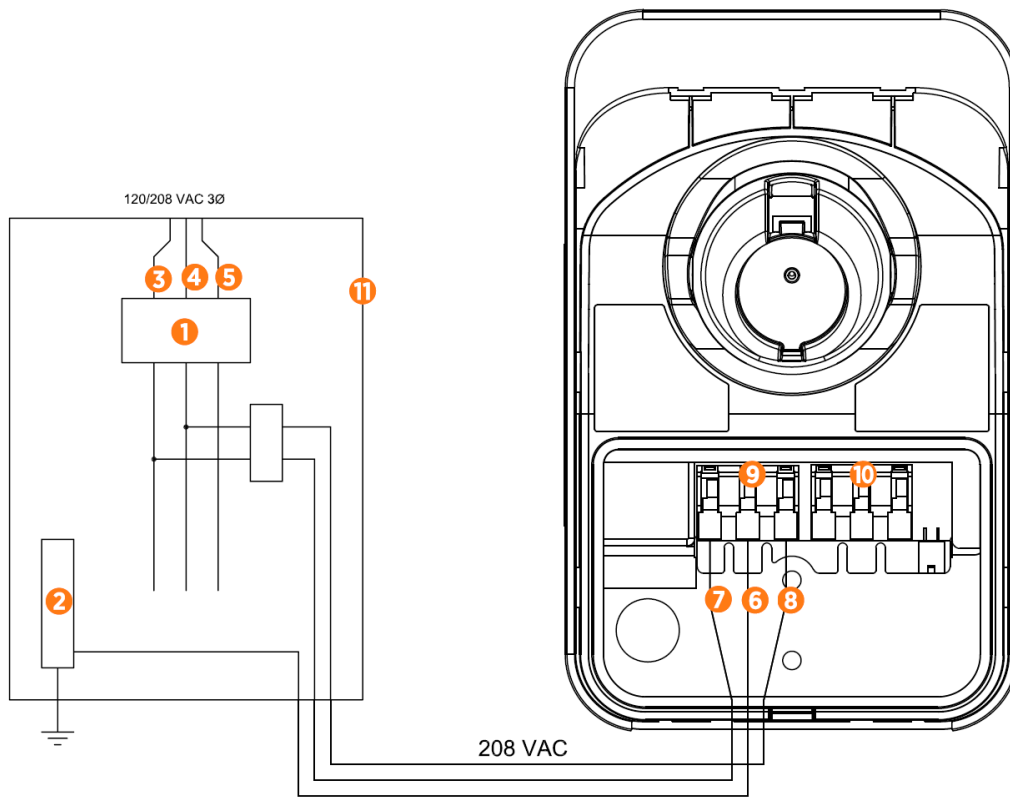
Wiring Diagram

240 VAC Single Phase Panel



- (1) Main Breaker
- (2) Ground Bus
- (3) L1
- (4) L2
- (5) Ground
- (6) L1
- (7) L2
- (8) Input Terminal Block
- (9) Output Terminal Block
- (10) Local Service or Sub Panel

208 VAC Three Phase Panel



- (1) Main Breaker
- (2) Ground Bus
- (3) L1
- (4) L2
- (5) L3
- (6) Ground
- (7) L1
- (8) L2/N
- (9) Input Terminal Block
- (10) Output Terminal Block
- (11) Local Service or Sub Panel

Grounding Requirements

The CPF50 must be connected to a grounded, metal, permanent wiring system. An equipment-grounding conductor must be run with circuit conductors and connected to an equipment-grounding terminal or lead on the CPF50.

A grounding conductor that complies with applicable codes must be grounded to earth at the service equipment or, when supplied by a separate system, at the supply transformer.

Ensure that a grounding conductor that complies with all applicable codes is properly grounded to earth at the service equipment or, when supplied by a separate system, at the supply transformer.

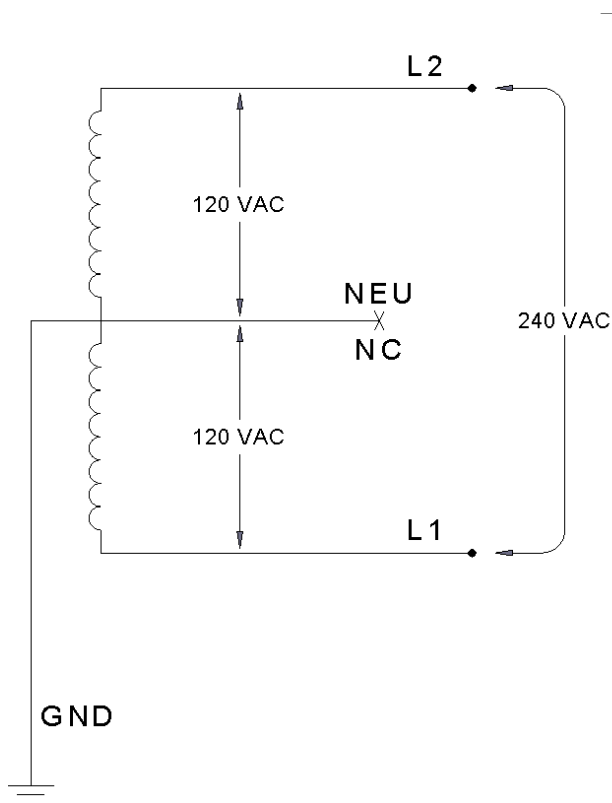
Neutral is not used to power the station but must be properly connected to ground, at the panel or transformer, to provide the necessary voltage reference relative to ground.

- In a Wye system, connect the station to any two lines, as shown.
- In a Delta system, connect the station to a center-tapped secondary only, where the center tap is bonded and the station is connected to the L1 and L3. This allows voltages to remain constant regardless of other loads that may be using the lines.

Connect to these Systems

The following configuration shows how the bonded neutral station connects to the system:

- 120/240 VAC, 10 Bonded Neutral Station is connected to L1 and L2 Neutral is not used

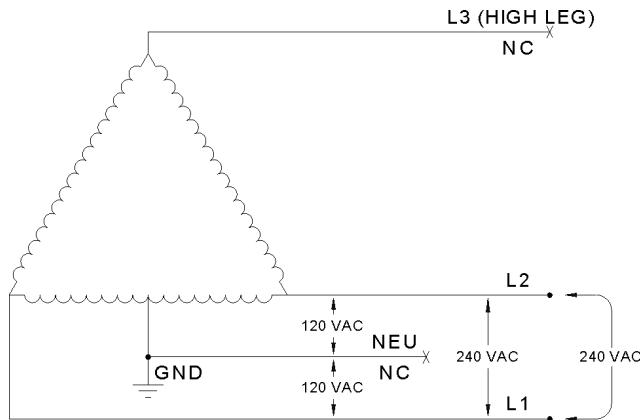


- 120/208 VAC, 30 Wye Bonded Neutral Station may be connected to any two lines Neutral is not used

- 120/240 VAC, 30 Delta Center tap grounded Bonded neutral

Station must be connected to L1 and L2 only Do not connect any part of the system to L3 Neutral is not used

Not recommended for new construction

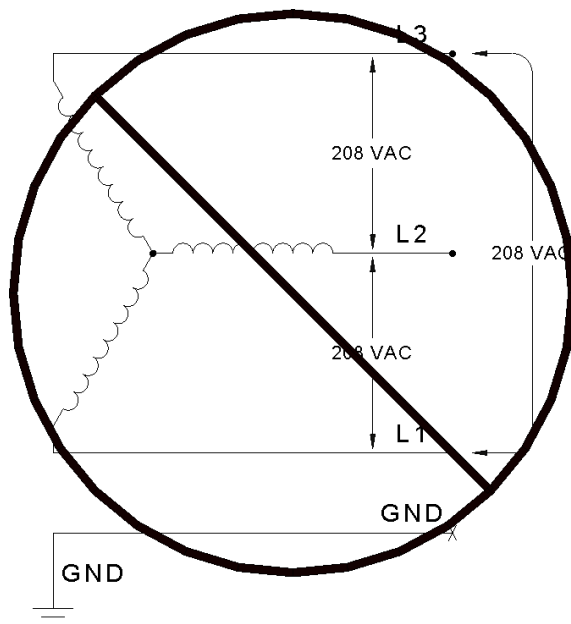


Do Not Connect to these Systems

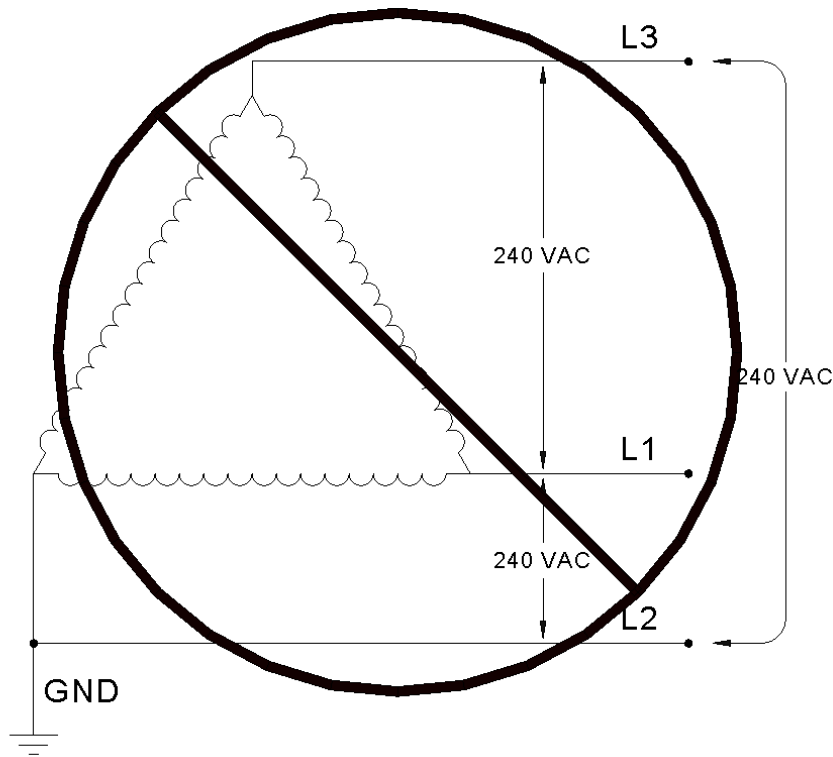
The following system configuration must not be used because it poses grounding and voltage risks:

- 120/208 VAC 3 phase Wye, ungrounded Floating neutral

Voltage of either line to ground is undetermined Neutral is not grounded



- 120/240 VAC 3 phase Delta, corner-grounded Voltage of any line is not 120 V nominal relative to ground



- Any system where the center point of the AC power source is not grounded.

Plan for the Gateway (Optional)

The CPF50 charging station has its own cellular connection. Earlier models of CPF50 require that the ChargePoint Gateway is installed for cellular connectivity. To determine whether the CPF50 model has its own cellular connectivity, look for the label at the bottom of the station, which indicates the model name. A model name with CPF50-K will have a cellular modem, while a model name with CPF50 will require the ChargePoint Gateway for cellular connection. If the ChargePoint Gateway is required, each CPF50 must be installed within 45 m (150 ft) of the Gateway within line of sight.

The ChargePoint Gateway consists of a cellular modem for wide area networking and built-in Wi-Fi for local communications to and from the CPF50 charging stations. The Gateway should be located where cellular signal levels are optimal for LTE. Each Gateway must be located within 150 feet line-of-sight to as many as nine CPF50 charging stations. Each CPF50 charging station has built-in Wi-Fi capability to communicate via the Gateway for ChargePoint network services.

The Gateway is a UL Class 2 device and requires less than four watts power (33 mA@120 V or 19 mA@208 V). ChargePoint recommends hardwire electrical termination to the power source for the Gateway.

The Gateway dimensions are 280 mm (11 in) wide by 340 mm (13 3/8 in) long by 137 mm (5 3/8 in) deep. The datasheet, installation guide, and mounting template are available at [ChargePoint Product Reference Documentation](#).

Connectivity 4

A consistently strong cellular signal is needed before installers can activate the vehicle charging station. Weak or sporadic signal can affect crucial aspects of the charging station, including:

- Accuracy in reporting
- Ability for drivers to use the mobile app
- Ability for customer support to troubleshoot problems
- Support for advanced features such as Power Management or Waitlist

A strong signal is also required for the ChargePoint Assure maintenance and management programs.

ChargePoint stations use cellular data connections to reach ChargePoint Cloud Services. This allows secure, PCI-compliant data connections without requiring any other form of internet connectivity at an install site or imposing additional network management responsibilities on a site host.

Each station has its own cellular connection.

Signal Strength and Quality

You must use a cellular signal detection device (such as a Siretta Snyster LTE or equivalent) to take signal strength readings at the exact proposed mounting location of the charging station. If the charging station does not have its own cellular connection, take the signal strength reading at the proposed mounting location of the gateway station.

In North America, ChargePoint products all support LTE bands 2, 4, and 5. The most commonly supported carriers to check during site evaluation are:

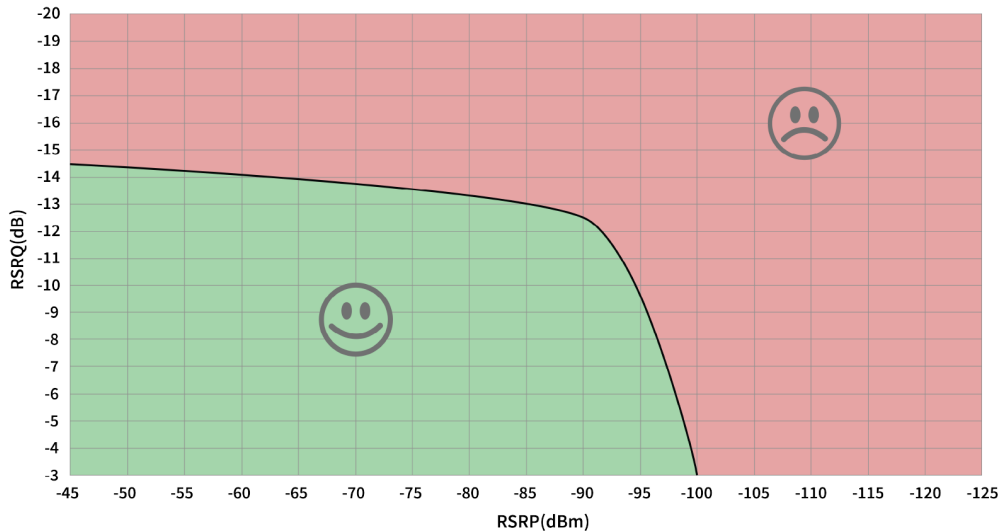
- US: AT&T, T-Mobile, and Verizon
- Canada: Rogers, Telus, and Bell

In Europe, ChargePoint products all support LTE bands 1, 3, 7, 8, and 20. 900 and 1800 MHz are also supported for 2G fallback. Partners vary by country.

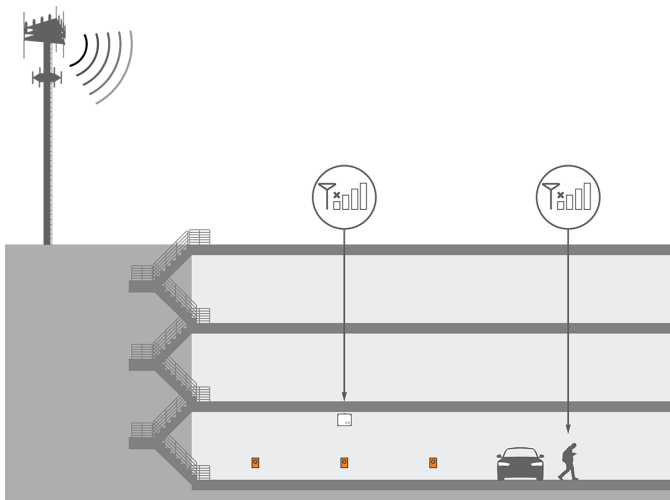
You must test the LTE signal strength at the proposed mounting location of every station and ensure the location meets the minimum RSRQ at -12.5 dB or better, for RSRP measured at -90 dBm or better. Refer to the graph for acceptable combinations.

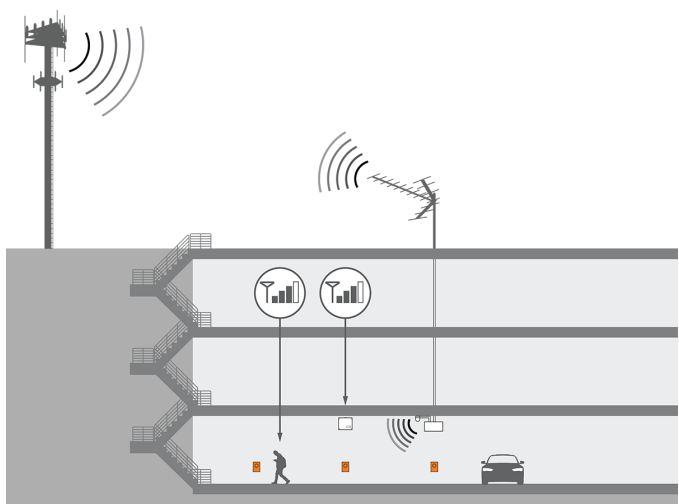


NOTE: Cellular signal strength is measured in dBm, a logarithmic unit expressed as a negative number. Because dBm values are negative, a value closer to zero indicates a stronger signal. For example, -70 dBm represents a stronger signal than -85 dBm, while -90 dBm indicates a weaker signal than both.



If the signal strength is weaker than this, take cellular readings at the location where any cellular signal booster antennas will be installed. Ensure enough signal exists for that repeater model. Install repeaters to boost the strength of the cellular signals. Repeaters are often required when installing charging stations in an underground garage or enclosed parking structure.





For other regions, or if the site does not have strong signal on these bands, contact your ChargePoint representative for additional solutions.

ChargePoint strongly recommends a consultation with a cellular connectivity specialist before all installations. A consultation can verify:

- Service with a supported carrier on a supported LTE band
- Available signal and local noise levels on applicable bands
- Site changes to correctly meet your needs, both for station bandwidth and other phone coverage for customer or tenant satisfaction

Repeaters

Some sites require repeaters to ensure strong signal to all stations. If a repeater is required, look for a model with these features:

- Specifically LTE-compatible on the listed bands
- Multi-carrier
- Multi-band
- Not already dedicated to FirstNet or other first responder-specific networks
- Auto-gain recommended



NOTE: Do not rely on readings taken with a cell phone when conducting site surveys. Many signal boosters and network extenders may not be compatible with ChargePoint hardware, including certain types of Distributed Antenna Systems (DAS), micro/nano/pico/femto-cells, and carrier- or band-specific signal boosters.

Repeaters are not allowed in France. Contact the French service provider for more information.

Mounting Options 5

This chapter details the steps for pedestal installation. Follow the instructions below to prepare the site and install the pedestal.

There are two types of pedestals:

1. **CMK Pedestal:** Continue to the next section.
2. **Non-CMK Pedestal:** Skip to [Non-CMK Pedestal](#).

CMK Pedestal

Pedestal Mount Concrete Preparation

The CPF50 pedestal mount can be installed in one of the following ways:

- Into the ground by casting [new concrete](#).
- Onto an [existing concrete surface](#).
- Onto a [stacked parking platform](#).



WARNING: Do not use expanding anchor bolts. Do not install the CPF50 on an asphalt surface.

Required Tools and Materials

The required kit components, required tools, and installation steps vary depending on the type of installation. This section provides basic guidelines for all approved installation types.

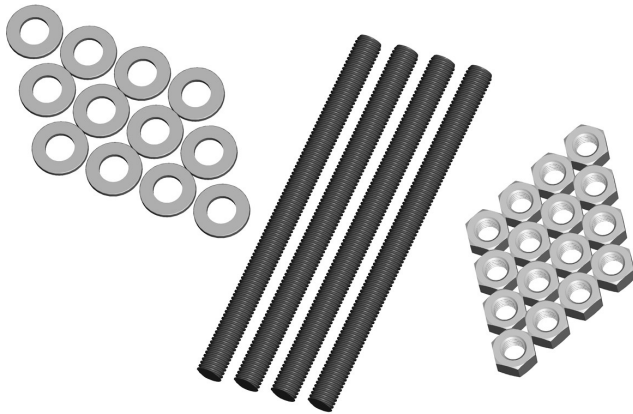
To install the CPF50 pedestal mount into the ground, you need the following components:

- 5/8" - 11 X 9" grade 55 bolts (4)
- 5/8" - 11 hex nuts (16)
- 5/8" washers (12)
- [Bolt Pattern Template](#)

- [Mount Plate Guide](#)

These components can be purchased from ChargePoint by ordering a CPF50 Pedestal Mount Kit.

When installing onto an existing concrete surface, you only need 8 galvanized hex nuts and 8 galvanized washers. Additionally, required consumables are described below.



Install on New Concrete

Before casting new concrete, review the site for suitability to install a CPF50. The CPF50 requires space behind the conduit stub-up for the Cable Management Kit (CMK), if applicable. To ensure adequate clearance, refer to the illustrations below and to the CPF50 Installation Template and the Mount Placement Guide included in the Concrete Mount Kit.



NOTE: If the original copy of the installation template is lost, a new one can be printed using the following links:

https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cpf50/cpf50_cmt-cmk.pdf

https://docs.chargepoint.com/ref-docs-sec/content/pdfs/2-ac/cpf50/cpf50_cmt-without-cmk.pdf

Ensure that the PDF version of the mounting template is accurate by printing at 100% scale on 11x17 paper and verifying at least one dimension.



IMPORTANT: Ensure compliance with all applicable local codes. Modify these instructions as necessary to align with the codes in effect at your installation location.

The instructions are as follows:

- The concrete block must measure at least 600 mm (2 ft) on all sides.
- The bolt threads must extend 60 mm (2.4 in) above the concrete.
- The conduit must not exceed a maximum of 45 mm (1.8 in) in diameter and extend 660 mm (2 ft) above the concrete.
- The service wiring must extend 1.5 m (5 ft) above the concrete surface.

-
- Refer to Install the Pedestal chapter in the CPF50 Installation Guide available at [ChargePoint Product Reference Documentation](#) for detailed instructions on how to install the pedestal mount.

Pre-Installation Steps

Before starting the installation, complete the following preparation steps to ensure proper setup:

1. Dig a hole with the minimum measurements of 600 mm (2 ft) x 600 mm (2 ft) x 600 mm (2 ft).



IMPORTANT: The concrete block you create must be at least 600 mm (2 ft) on all sides.

2. Ensure that the electrical cable and conduit has been installed in the correct location and that the appropriate circuit protection and metering is in place, following all local codes and regulations.
3. Ensure that enough power cable (approximately 1.8 m (5.9 ft)) is above the planned ground level to create a service loop. It can be trimmed back during installation as needed.
4. Create a base for the concrete as required by local codes and regulations.
5. Create a wooden version of the template.
6. Build a temporary frame to support the wooden template over the hole.
7. Before pouring the concrete pad, make sure that all pedestal mounting components are readily available at the installation site.
8. Install two nuts, with two washers captured between them, onto each of the three bolts, as illustrated. Lock them together so the lower end of the upper nut is located 165 mm (6.5 in) from the bottom of the bolt. This sets the length of the exposed threads.



9. Insert the four bolts through the wooden template. This ensures that the relative position of the bolts, and ensures that the flange of the pedestal fits over the bolts.



10. On the bottom end of each bolt, install a nut, a washer, and a nut. Lock the two nuts together so that the lower nut aligns to the bottom of the bolt. This provides retention for the bolt in the concrete.

Instructions

Follow these instructions after the preparation steps:

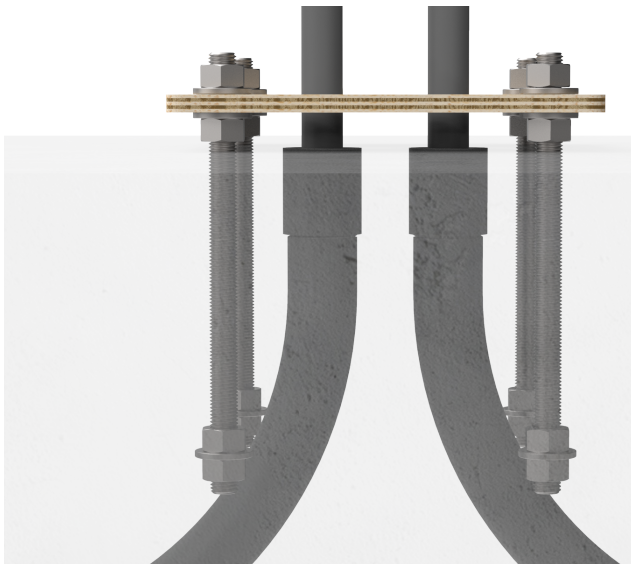
1. Pour the concrete into the hole you prepared.
2. Immediately after pouring the concrete, push the bolts into the concrete 165 mm (6.5 in) deep. You may need to slightly loosen the hexagon nuts to rotate the mounting bolts. Ensure correct alignment and that the top 60 mm (2.4 in) of the bolts remain exposed.



IMPORTANT: Rotate the bolts as you insert them. This allows the concrete to fully coat the threads of the bolts, reducing the amount of trapped air.

3. Re-tighten the hexagon nuts to the template.

-
4. Remove any boards or shims supporting the mounting template. Leave the mounting template in place until the concrete is fully cured.

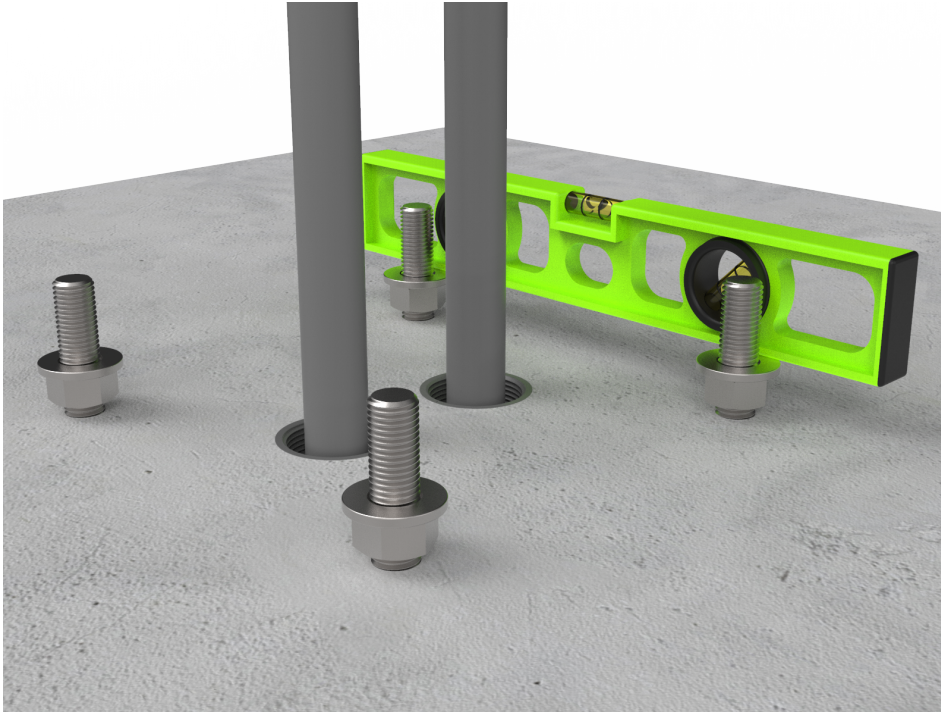


Post Concrete Cure

Follow these steps after the concrete has fully cured to ensure proper alignment and installation:

1. When the concrete is fully cured, remove the upper nut and the washer.
2. Adjust the remaining nuts and washers until about 35 mm (1.4 in) of bolt is exposed above each washer.

3. Use a spirit level and adjust the height of the nuts as required to ensure the four washers are completely level with each other.



4. When the concrete is fully set, remove the upper nuts and the washers to install the pedestal's mounting post.

You are now ready to install the CPF50 pedestal mount charging station.

Install on an Existing Concrete

If installing on existing concrete, review the site for suitability to install a CPF50. The CPF50 requires space behind the power stub-up for the pedestal and (optional) CMK. To ensure adequate space, refer to the CPF50 Installation Template included in the Concrete Mounting kit.



IMPORTANT: Ensure compliance with all applicable local codes. Modify these instructions as necessary to align with the codes in effect at your installation location.

The instructions are as follows:

- Review the dimensions of the existing concrete slab. To safely mount a CPF50 charging station, the concrete must be at least 200 mm (8 in) thick. At this thickness, all CPF50 mounting bolts must be positioned at least 380 mm (15 in) from the front edge, at least 305 mm (12 in) from the side edges, and at least 150 mm (6 in) from the rear edge of the concrete slab.
- If an existing charging station is already in place at the installation site, turn off all power to the station and disassemble according to the original manufacturer's instructions. Cut away any existing bolts or non-power conduit stub-ups to ground level. Seal cut-away conduits at the slab end, and disconnect wiring at the other end.

- Ensure you have adequate wiring. Service wiring for the CPF50 must extend 1.5 m (5 ft) above the platform's surface.
- ChargePoint recommends creating a rigid template based on the paper template to position the bolts.

Required Tools and Materials

Electric drill or hammer drill (12 mm or 1/2 in chuck may be required depending on drill bits used)

Quantity	Description	Purpose
1	Epoxy adhesive for concrete such as Hilti RE-500.	Fill drilled holes and secure anchor bolts.
1	Electrical cleaning and maintenance aerosol, any angle spray duster, 235 ml (8 oz), such as McMaster #7437K35	Clean drilled holes.
1	Slow spiral round-shank masonry drill bit, 25 mm (1 in) diameter, 12.5 mm (1/2 in) shank, 254 mm (10 in) drill depth, 305 mm (12 in) length overall, such as McMaster #2960A22	Drill 25 mm (1 in) holes in concrete.
1	Drill bit for concrete embedded rebar, round 25 mm (1 in) bit size, 12.5 mm (1/2 in) shank diameter, 305 mm (12 in) length overall, such as McMaster #28655A25	Drill 25 mm (1 in) hole through rebar.
1	Nylon loop handle brush, 25 mm (1 in) brush diameter, 76 mm (3 in) length brush, 216 mm (8-1/2 in) length overall, such as McMaster #7221T13	Clean drilled holes.
1	Push-on round cap, fits 16 mm (5/8 in) - 17.5 mm (11/16 in) OD, 1/2 in inside height, pack of 100, such as McMaster #9753K47	Keeps the epoxy inside the drilled holes in situations where the slab is only 150 mm (6 in) deep.



NOTE: Compressed air is recommended for cleaning holes that are at least 150 mm (6 in) deep.

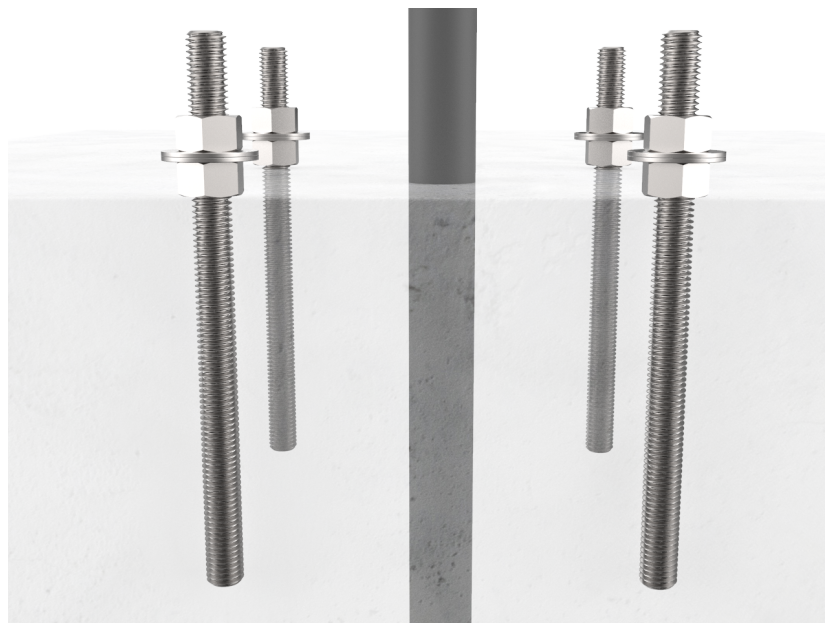
Instructions

After the concrete has fully cured, perform the following steps to ensure proper alignment and installation:

1. Install two nuts with two washers captured between them. Lock them together so the lower end of the nut is located 165 mm (6.5 in) from the bottom of the bolt. This sets the length of the exposed threads.



2. Use the Installation Template to mark the hole locations.
3. Remove the template and drill four 25 mm (1 in) diameter holes 165 mm (6.5 in) deep into the concrete. When locating the template, consider the station's total footprint. For reference, a template is included in the Concrete Mounting kit.
 - Bolts must be parallel after installation. Therefore, ensure drill holes are plumb by using a bubble level to check the angle of the drill after drilling 25-38 mm (1 - 1.5 in).
 - If installing over existing buried conduit, position the center of the template around the conduit stub-up.
 - You may need two drill bits - one for the concrete (with the pilot) and another for the rebar (without the pilot). Always start the hole using the standard drill bit, then switch to the rebar drill bit only if drilling through rebar.



4. Remove all dust from inside the drilled holes using compressed air, a vacuum, and/or a brush.

-
5. If the concrete slab is only 165 mm (6.5 in) deep, insert a plug in each hole to keep the epoxy in place until it hardens. Place the plug over the long end of a bolt and use the bolt to push the plug to the bottom of the hole.
 6. Fill each hole with epoxy to about 64-76 mm (2.5-3 in) below the top. Continue immediately to the next step because the epoxy sets within about eight minutes.
 7. Inserting the threaded bolts displaces the epoxy, causing it to fill the holes to grade level. If the epoxy is below grade level, you can add more after the next step.
 8. Place the Installation Template over the holes. This ensures the relative position of the bolts and that the flange of the pedestal fits over the bolts.
 9. If needed, top up the holes with epoxy to grade level.
 10. Allow the epoxy to cure according to manufacturer's instructions before removing the top nuts and washer and before applying torque to the nuts.



IMPORTANT: Rotate the bolts as you insert them. This allows the epoxy to fully coat the threads of the bolts, reducing the amount of trapped air.



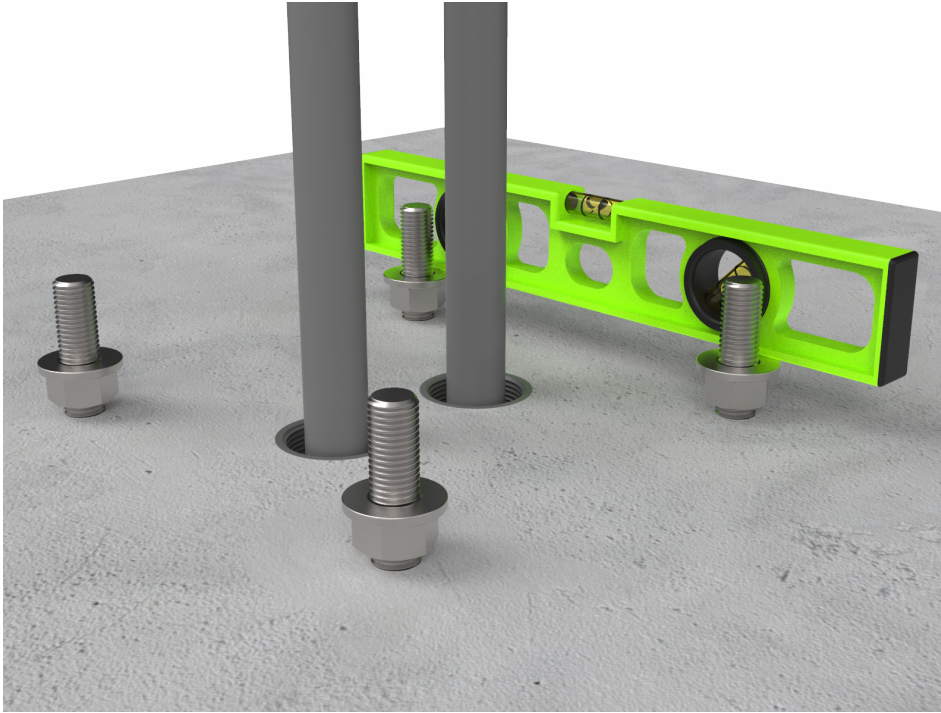
NOTE: Epoxy cure times may vary depending on the type of epoxy. Refer to the cure times provided with the epoxy.

Post Concrete Cure

Follow these steps after the concrete has fully cured to ensure proper alignment and installation:

1. When the concrete is fully cured, remove the upper nut and the washer.
2. Adjust the remaining nuts and washers until about 35 mm (1.4 in) of bolt is exposed above each washer.

3. Use a spirit level and adjust the height of the nuts as required to ensure the four washers are completely level with each other.



4. When the concrete is fully set, remove the upper nuts and the washers to install the pedestal's mounting post.

You are now ready to install the CPF50 pedestal mount.

Install on a Stacked Parking Platform

Before installing the CPF50 onto a stacked parking platform, ensure that the site is suitable. Every stacked parking platform is different. Therefore, instead of step-by-step instructions, ChargePoint provides the following guidelines:

- The CPF50 requires at least 70 mm (2 3/4 in) between the rear edge of the mounting plate and the wall to allow adequate clearance for the CMK. Refer to the CPF50 Mount Placement Guide for details.
- Before installing on the stacked parking platform, make sure that all pedestal mount components are readily available at the installation site.
- Always check local codes to ensure compliance.
- Ensure you have adequate wiring. Service wiring for the CPF50 must extend 1.5 m (5 ft) above the platform's surface, like any other type of CPF50 installation.
- Refer to *Install the Pedestal* chapter in the CPF50 Installation Guide available at [ChargePoint Product Reference Documentation](#) for detailed instructions on how to install the pedestal mount. For stacked parking installations, it is acceptable to use a service cord (i.e. jacketed cable) without conduit inside the ChargePoint pedestal, provided the wiring is protected with appropriate bushings as it enters the pedestal.
- Ensure that the pedestal is stable and does not move when the station is in use or when the platform is in motion.

Non-CMK Pedestal



NOTE: This pedestal is only available in non-CMK variant.

The CPF50 pedestal mount can be installed one of the following ways:

- Onto an existing concrete surface.
- Onto a stacked parking platform.



WARNING: Do not install the CPF50 on an asphalt surface.

Install on an Existing Concrete

Review the site for suitability to install a CPF50. The CPF50 requires space behind the power stub-up for the pedestal.



NOTE: If the location does not have concrete, you need to pour concrete. Contact ChargePoint Support to purchase a Concrete Mounting Kit.



IMPORTANT: Ensure compliance with all applicable local codes. Modify these instructions as necessary to align with the codes in effect at your installation location.

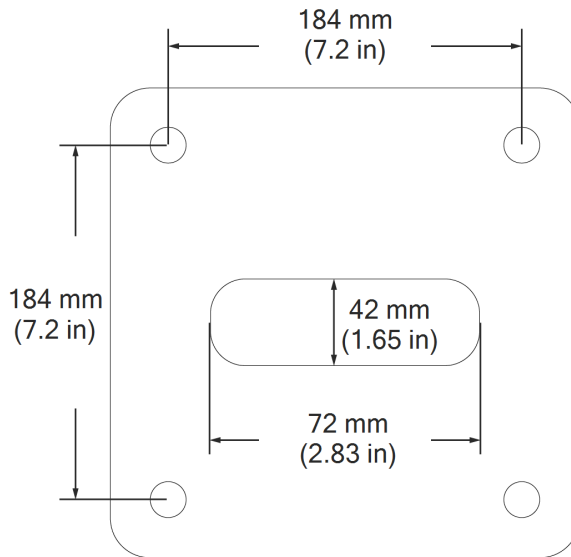
The instructions are as follows:

- Review the dimensions of the existing concrete slab. To safely mount a CPF50 charging station, the concrete must be at least 150 mm (6 in) thick. At this thickness, all CPF50 mounting bolts must be positioned at least 380 mm (15 in) from the front edge, at least 305 mm (12 in) from the side edges, and at least 150 mm (6 in) from the rear edge of the concrete slab.
- If an existing charging station is already in place at the installation site, turn off all power to the station and disassemble according to the original manufacturer's instructions. Cut away any existing bolts or non-power conduit stub-ups to ground level. Seal cut-away conduits at the slab end, and disconnect wiring at the other end.
- Ensure you have adequate wiring. Service wiring for the CPF50 must extend 1.3 m (51 in) above the platform's surface.
- ChargePoint recommends creating a rigid template based on the paper template to position the bolts.

- The bolt position must be consistent with the bolt pattern template provided below.



NOTE: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).



- Conduit stub-up must extend approximately 0.3 m (1 ft) above the concrete surface.
- The service wiring must extend 1.3 m (51 in) above the concrete surface.



IMPORTANT: The concrete must be level.



IMPORTANT: If the existing pad does not meet the specifications above, a structural engineer must inspect and approve the pad for charging station dimensions and weight.

Required Tools and Materials

Electric hammer drill with 12 mm (1/2 in) or larger chuck.

The following table lists and describes the tools that you will need.

Quantity	Description	Purpose
1	Aerosol, any angle spray duster, 235 ml (8 oz)	Clean drilled holes. (Compressed air or vacuum will also work.)
1	Slow spiral round-shank masonry drill bit • 16 mm (0.63 in) diameter	Drill 16 mm (0.63 in) holes in concrete. (The holes must be at least 100 mm (4 in) deep.)

Quantity	Description	Purpose
1	Drill bit for concrete embedded rebar, round (if required) • 16 mm (0.63 in) bit size	Drill 16 mm (0.63 in) hole through rebar.

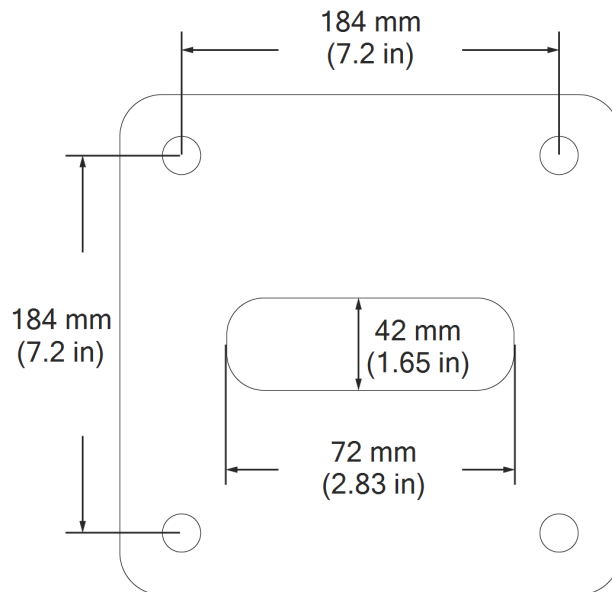
Instructions

Perform the following steps to ensure proper alignment and installation:

1. Review the bolt hole pattern and mark the hole locations.



NOTE: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).

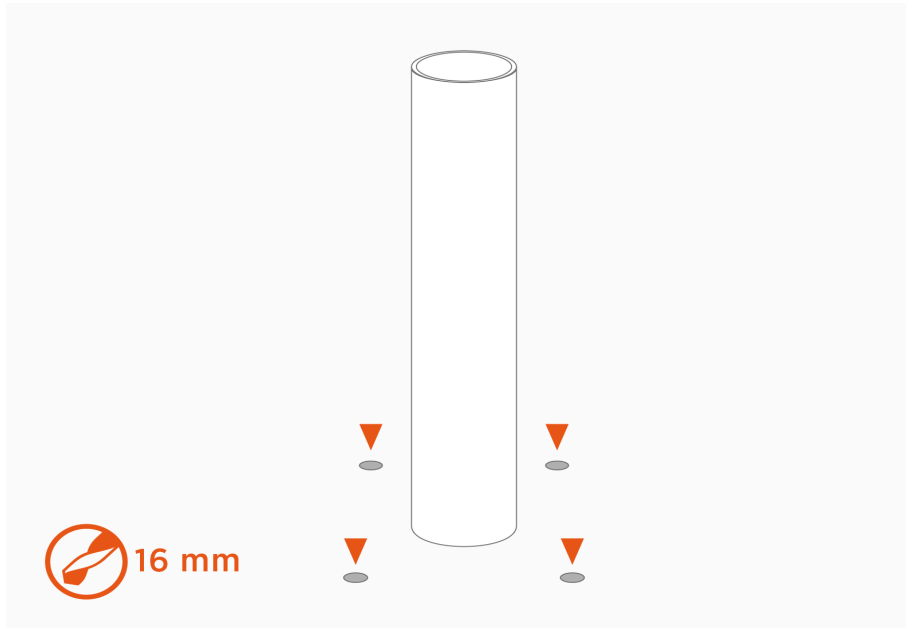


2. Ensure that the conduit stub-up is at the center of the hole location.

3. Drill four 16 mm (0.625 in) diameter holes 100 mm (4 in) deep into the concrete.



IMPORTANT: Ensure the depth and diameter of each hole is correct.



4. Use compressed air, a vacuum, or a brush and remove all dust from the drilled holes.
5. Insert the bolts into the holes.
6. Use a hammer to tap the bolts until they protrude at least 30 mm (1-1/4 inches) above the surface.
Each bolt must extend at least 30 mm (1-1/4 inches) above the surface.

You are now ready to install the CPF50 pedestal mount.

Install on a Stacked Parking Platform

Before installing the CPF50 onto a stacked parking platform, ensure that the site is suitable. Every stacked parking platform is different. Therefore, instead of step-by-step instructions, ChargePoint provides the following guidelines:

- Before installing on the stacked parking platform, make sure that all pedestal mount components are readily available at the installation site.
- Always check local codes to ensure compliance.
- Ensure you have adequate wiring. Service wiring for the CPF50 must extend 1.3 m (51 in) above the platform's surface, like any other type of CPF50 installation.
- Refer to *Install the Pedestal* chapter in the CPF50 Single or Dual-Sided Pedestal Installation Guide available at [ChargePoint Product Reference Documentation](#) for detailed instructions on how to install the pedestal mount. For stacked parking installations, it is acceptable to use a service cord (i.e. jacketed cable) without conduit inside the ChargePoint pedestal, provided the wiring is protected with appropriate bushings as it enters the pedestal.

- Ensure that the pedestal is stable and does not move when the station is in use or when the platform is in motion.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Important: Changes or modifications to this product not authorized by ChargePoint, inc., could affect the EMC compliance and revoke your authority to operate this product.

Exposure to Radio Frequency Energy: The radiated power output of the 802.11 b/g/n radio and cellular modem (optional) in this device is below the FCC radio frequency exposure limits for uncontrolled equipment. The antenna of this product, used under normal conditions, is at least 20 cm away from the body of the user. This device must not be co-located or operated with any other antenna or transmitter by the manufacturer, subject to the conditions of the FCC Grant.

ISED (formerly Industry Canada)

This device complies with the licence-exempt RSS standard(s) of Innovation, Science and Economic Development Canada (ISED). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux flux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada (ISDE). L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter.

Radiation Exposure Statement: This equipment complies with the IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Énoncé d'exposition aux rayonnements: Cet équipement est conforme aux limites d'exposition aux rayonnements ioniques RSS-102 Pour un environnement incontrôlé. Cet équipement doit être installé et utilisé avec un Distance minimale de 20 cm entre le radiateur et votre corps.

FCC/IC Compliance Labels

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