

EV CHARGING STATION FOUNDATION

To accommodate the sharp increase in demand for electric vehicle (EV) charging stations, contractors will need product solutions that are easily installed, durable, cost-effective and future-proof.

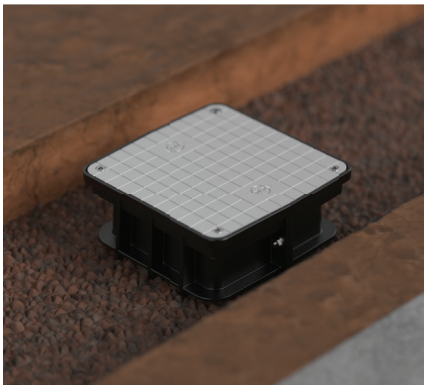
PLP's EV Charging Station Foundation is a pre-fabricated, precision-engineered solution for EV charging. This durable yet lightweight polypropylene foundation requires no specialized machinery; it can be installed by one person in one day. The EV Charging Station Foundation's design adapts to fit a wide range of chargers and charger pedestals/poles currently on the market. The aluminum top plate provides a clean finish, is easy to drill, and is an access point for repairs and future upgrades.

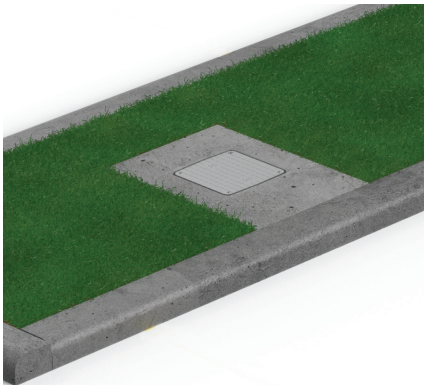
FEATURES AND BENEFITS

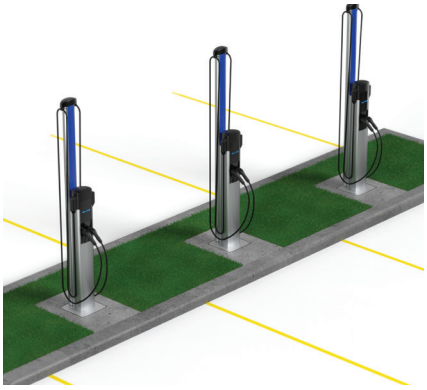
- Make-ready solution that prevents future infrastructure changes
- Easy, one-day installation; no concrete pours or heavy machinery required
- Engineered solution creates a clean, uniform appearance
- Top plate can be modified to fit different Level 2 charging stations
- Manufactured from durable, weather-resistant polypropylene
- Four ports for versatility and future expansion
- Top plate creates easy access point for charger repairs, or replacements or upgrades
- Extensive testing to withstand frost heave, hydraulic lift, heavy traffic, and high winds (up to 150 mph), with no chemical leaching

FUTURE-PROOF

- Make-ready solution prevents future infrastructure disruptions. Install multiple foundations today and add charging units over time, mitigating the need to break ground as the demand increases.
- Universal fitting system easily accommodates different Level 2 charging station models.
- Cast aluminum top plate access point makes for easy repairs and replacements.







ENGINEERED SOLUTION

- **Foundation** allows the charger to be installed, powered, and commissioned immediately; no waiting for concrete to cure.
- **Top Plate** can be easily drilled and fitted in the field to fit a wide range of charging models.
- **PE Certified** if installed per instructions, against frost upheaval, and high winds.



Foundation



Top View



Top Plate

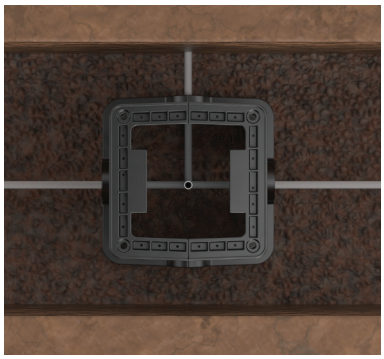


Finished Installation

VERSATILE

Multiple Wiring Configurations

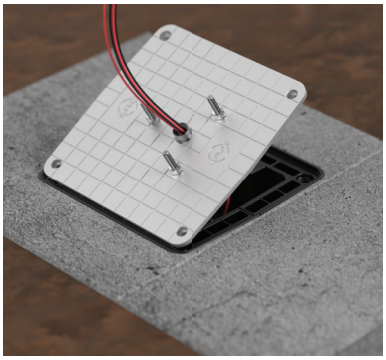
- Daisy-chain
- Dead-heading
- Change-of-direction
- Accepts up to 4 inch conduit



FLEXIBLE

Creates a Convenient Access Point

- Top plate provides easy access for future repairs
- Top plate is made of cast aluminum, easy to drill
- Accomodates Level 2 chargers and charger pedestals



DURABLE

Designed and Tested to Withstand Harsh Environmental Conditions

- Tier 15-Rated (22,000 lb compression strength)
- 150 mph wind tested
- High water table resistant
- Frost heave resistant



SPECIFICATIONS

Material	Weight with Lid	Rating	Horizontal Load Testing[2]	Vertical Load Testing Maximum
Body: Polypropylene	47 lb	Tier 15 Rated[1]	140 mph	1000 kg (2204 lb) Maximum scale

[1] Compression testing of 23,000 lb on the foundation and lid with no failure.

[2] Foundation installed in coarse compacted gravel with no concrete and no rebar, at grade, showed minor damage at 140 mph wind (hurricane loading).

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