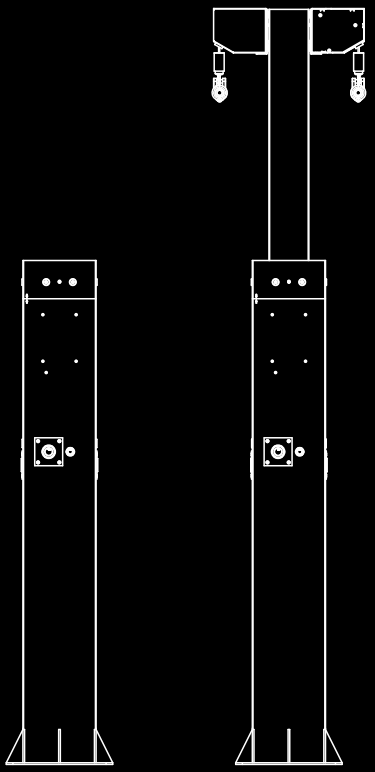
Welcome



EVC pedestal & pedestal with cable management accessory

INSTALLATION INSTRUCTIONS

RAB®

1. Safety Guide

- A safe work environment for everyone - participants, installation and demolition crews, contractors and subcontractors.
- Ultimately, it is the responsibility of contractors to ensure the safety and safe work practices of their employees and subcontractors who may be working at the site on their behalf.
- This guide provides a simple reference guide with basic rules for implementation. This guide does not outline every single safety standard: it is designed to be a supplement to participants, contractors and subcontractors.
- Contractors, subcontractors and employees should cooperate with their employers and other persons in complying with safety regulations and instructions.
- In particular, employees should:
  - Obtain the qualified authorization of the responsible unit in the construction area.
  - Work safely.
  - Not do anything to endanger themselves or other persons.
  - Use personal protective equipment as required and take reasonable care of when it is not in use.
  - Report unsafe activities immediately to supervisors or the responsible person in control of the workplace, and Report all accidents and dangerous occurrences to the supervisor immediately after they happen.

CAUTION

ELECTRIC SHOCK To be serviced by qualified personnel only

- Illuminated mounting posts and pedestals

- Luminaire(s) provided with a mounting post or pedestal shall be marked for connection to a Listed branch-circuit type overcurrent protection device, such as a circuit breaker or a fuse that is rated 20 amperes maximum. Luminaires shall also be marked, in a location that is visible during installation and replacement of lamps, with electrical rating in volts and watts.

- An illuminated mounting post or pedestal that may be supplied by multiple sources, shall be provided with a field installable label that is marked with the word "WARNING" and the following or equivalent: "Multiple supply sources - disconnect all sources before servicing."

2. Cautions

1. Reference standards

Adhere to the following codes:

- NFPA-70E -2021 Sec 110.3 (Electrical Safety in the Workplace)
- NFPA-70E -2021 Sec 130.4 (Shock Risk Assessment)
- NFPA-70E -2021 Sec 130.5 (Arc Flash Risk Assessment)

2. Requirements for workplace conditions

- Set up suitable fencing to isolate the construction area from outside
- Close and secure all entrances when the site is unattended
- Hang warning notices nearby which show the following information: warning icon and phone number of people in charge
- Install sufficient lighting fixtures

3. Cleaning up

- Keep work areas (including accessways) free from debris and obstructions
- Keep ground surfaces tidy and flat, to avoid people tripping or being hurt by tools or other objects
- Stack and store equipment and materials in a tidy and stable manner
- Regularly clean up and dispose of waste
- Remove all surplus materials and equipment after completion of work

4. Fire hazards

- Beware of flammable materials and goods. Keep them away from work areas

5. Protection against high temperatures on the worksite

- Erect a sunshade or shed to shelter workers from the heat and sun
- Set up cooling equipment, such as exhaust fans
- Make water dispensers available
- Provide suitable protective clothing such as hat, sunglasses and long sleeves to protect workers from heat stroke and UV rays

6. Inclement weather

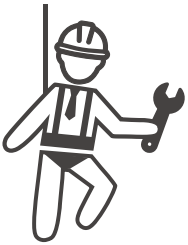
- Secure all scaffoldings, temporary structures, equipment, and loose materials
- Check and implement SOP to ensure disconnection of gas supplies, electrical circuits and equipment
- Inspect worksites to ensure protection against ingress of water or dust
- Inspect the drainage system for blockages and remove if found
- Stop all outdoor works except for emergency works

7. Ladders

- Only use ladders that meet local safety regulations
- When working at height, it is recommended to use platforms instead of ladders
- If using a platform is not practicable, a supervisor should assess the potential risk and provide safety
- protection equipment for workers
- use non-conductive ladders made of glass-fiber or reinforced plastic when carrying out electrical work
- Assign assistants to provide support when working on ladders
- Check all ladders for broken rungs or other defects before use and periodically
- Fully open stepladders when in use
- Do not overreach when working on a ladder
- Beware of overload restrictions

Country	Standards
USA	ANSI A 14.1, ANSI A 14.2, ANSI A 14.5

8. Working at height



- Avoid working at height by using alternative tools and methods as far as practicable
- It is strongly reconmmended to build suitable scaffolding or work platforms
- Provide fall arrest systems for workers if it is impracticable to use working platforms
- Secure all materials and tools to prevent them falling from height

9. Lifting operations

- Have lifting gear and apparatus regularly inspected and tested by qualified persons
- Isolate and cordon off lifting areas to keep out non-construction personnel
- Ensure that lifting routes do not cross buildings or people, and avoid collision with objects
- Do not exceed safe working load limits

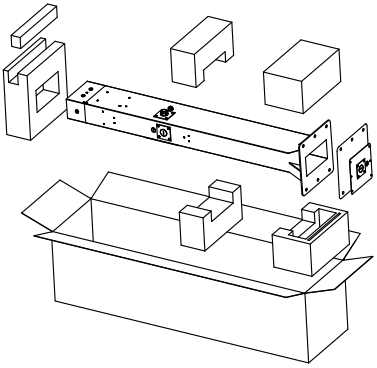
10. For on-site workers

- Plan all work
- Turn off power (work with live parts de-energized whenever possible)
- LOTO (Lock Out, Tag Out)
- Live electrical work permit (input terminals with HV after door open)
- Use personal protective equipment (PPE)
- Safe workplace conditions and space
- Adhere to other occupational health, safety and security codes, such as those published by OSHA

11. Certification standard: UL 1773

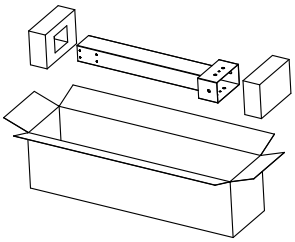
3. Package list

3.1 EVP



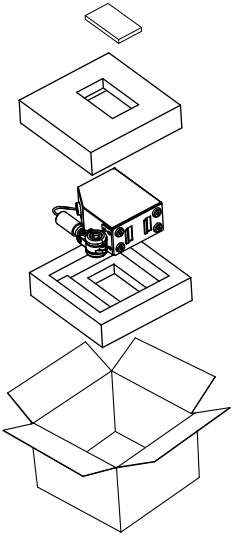
Item	Description	QTY.
1	Pedestal	1
2	Mounting plate	1
3	PG29 Waterproof joint	1
4	M20 Waterproof joint	1
5	M12 Anchor bolt	6
6	Hook	2
7	Wrench	1
8	M5 Screws	10
9	M4 Screws	6
10	M4 Plugs	14
11	M5 Plugs	12
12	PG29 Plug	1
13	M20 Plug	1
14	32A/40A Inner ring	2
15	Template	1

3.2 EVM



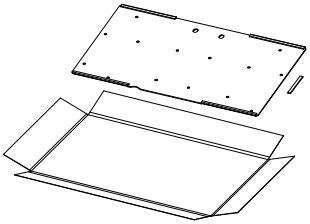
Item	Description	QTY.
1	Cable management add-on	1
2	M5 plugs	8

3.3 EVR



Item	Description	QTY.
1	Cable retractor	1
2	M6 Self-tapping singulars	4
3	Expansion screw	4
4	Wrench	1
5	40/32A Plastic pad	2
6	80A Plastic pad	2
7	M5 screws	4
8	Screws	4

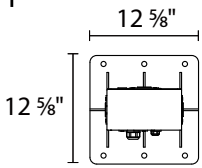
3.4 EVPB



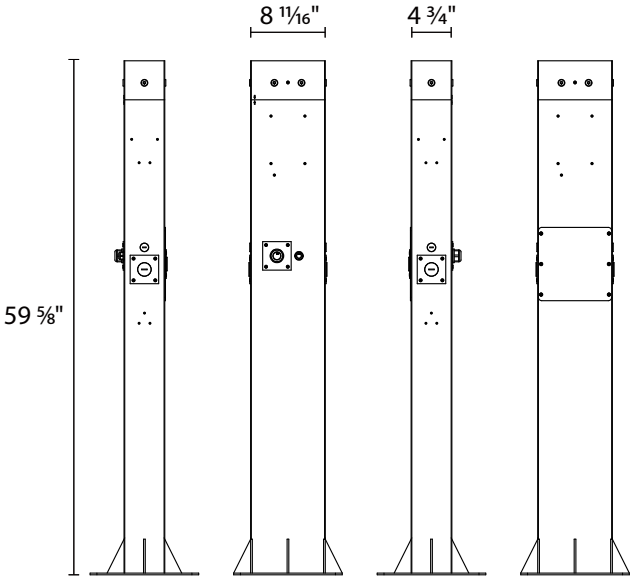
Item	Description	QTY.
1	Mounting bracket	1
2	M5 screws	4

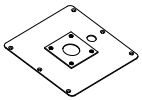
4. Dimensions

4.1 EVP



Description	Pedestal
Weight (lbs)	48
Material	Galvanized iron

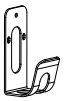



Mounting plate × 1


PG29 Waterproof joint × 1


M20 Waterproof joint × 1


M12 Anchor bolt × 6


Hook × 2


15⁄64-Inch allen wrench × 1


M5 Screw × 10


M4 Screw × 6

Template × 1

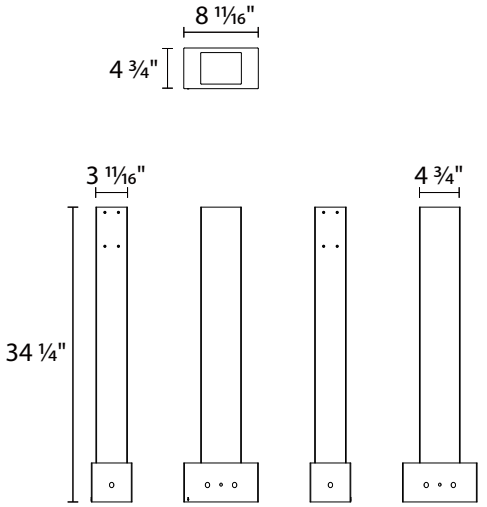

M5 Plug × 12


M4 Plug × 14


32A/40A Inner ring × 2

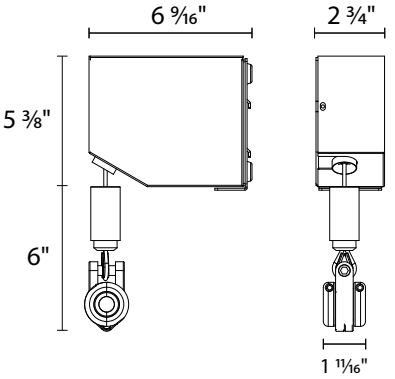
4.2 EVM

Description	Cable management add-on
Weight (lbs)	11
Material	Galvanized iron



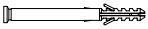
M5 Plug × 8

4.3 EVR



Description	Cable retractor
Weight (lbs)	5
Material	Galvanized iron
Initial pull (kgf)	3
Maximum length(in)	118

M6 Self-tapping singular × 4



Expansion singular × 4

1⁄8-Inch allen wrench × 1

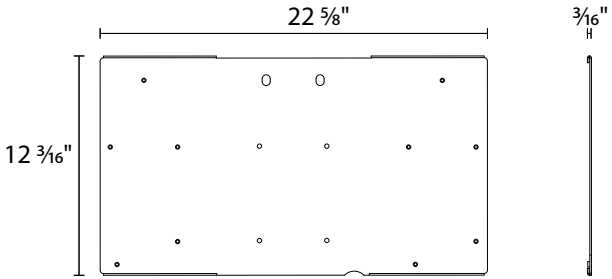
40/32A Plastic pad × 2

80A Plastic pad × 2

M5 Screw × 4

1⁄8-Inch screw × 4

4.4 EVPB



M5 Screw × 4

Description	Side by side mounting bracket
Weight (lbs)	8.3
Material	Galvanized iron

5. Select Mounting Position

To select the best location for mounting the pedestal, the parking position of the vehicle should first be confirmed to ensure that the charging connector can be easily inserted into the vehicle's charging inlet.
Pedestal should be installed in:

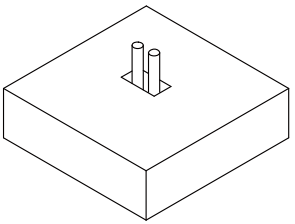
- Side *(charging port side of vehicle)* or rear of parking space .
- Public area or dedicated charging area .
- Consider electrical supply and wiring.
- 10 inches from obstructions for maintenance and access.

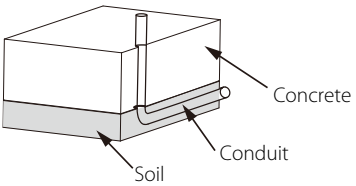
6. Installation Foundation Requirements

The built concrete pad should be compliance with local regulatory requirements. The following dimension or struction related descriptions are the minimum requirement only.

STEP 1

Build the concrete pad for pedestal, the compressive strength must be over 3000psi, reference picture is shown as fllow ,and the concrete pad dimensions *:* L19 $^{11}/_{16}$" x W19 $^{11}/_{16}$" x H11 $^{13}/_{16}$".

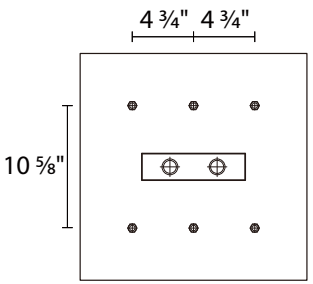


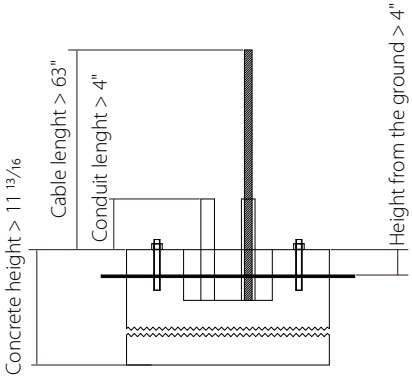


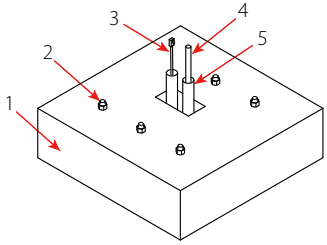
Cable Conduit Suggest
Charging current : Use 4" conduit.
Ethernet cable : Use 1" conduit.

STEP 2

Drill six 5/8 inch diameter holes into the concrete pad using the template, then install six M12 anchor bolts. The height of the bolt should be at least1" above the concrete pad and depth of bolt is at least 4" .







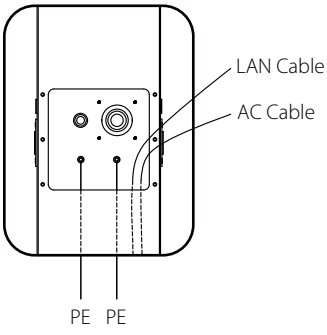
NO.	NAME	DEMAND
1	Concrete pad	Comprressive strength > 3000 psi
2	Anchor bolt	M12
3	Ethernet cable	Length from concrete > 63"
4	AC Power cable	Length from concrete > 63"
5	Cable conduit	Height from concrete > 4"

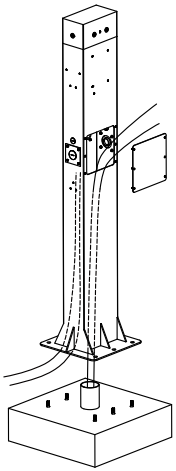
- The length of the conduit must extend 4" beyond the concrete pad to avoid liquid ingress.
- Ensure the length of AC power cable and the ethernet *(LAN)* cable should be long enough 63" to reach up the pedestal body, then into the charger.

7. Install Pedestal

STEP 1

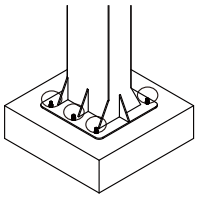
Remove mounting plate and pull out the LAN cable and AC cable from the large hole on the back of the pedestal to facilitate wiring.
Use two 6mm wires to connect to the local grounding grid, with contact resistance less than 4Ω. (Product does not include grounding wires and screws.)





STEP 2

The pedestal base has 6 holes ,lock the nuts after aligning it with the ground bolts. Tightening torque > 400 kgf-cm *(347.2 lbf-in)*.

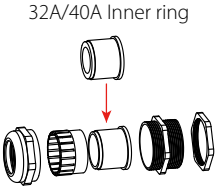


8. Install Charging Station

8.1 Single

STEP 1

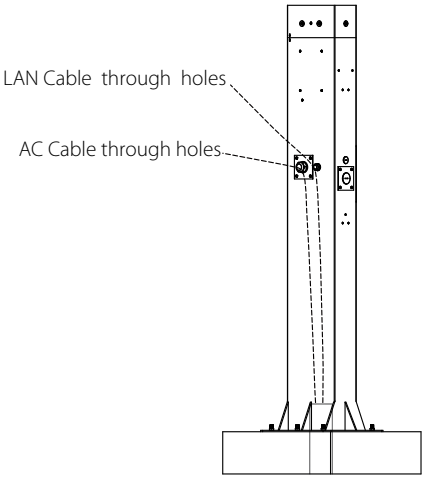
The inner ring of PG29 waterproof joint is suitable for 48A AC cable, if installing 32A/40A AC cable, please replace the 32A/40A inner ring in the accessory box.



PG29 Waterproof joint

STEP 2

The cables through the waterproof joint on the front.

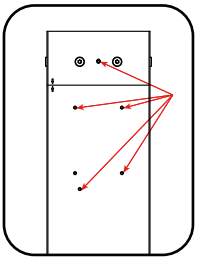


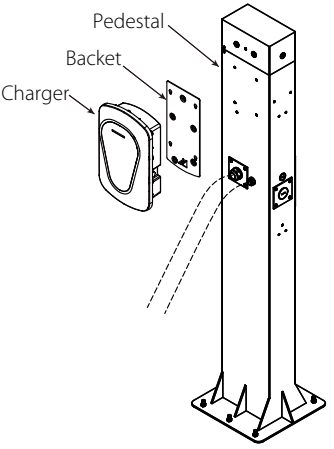
STEP 3

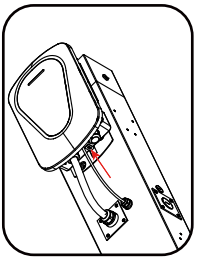
EVC32&EVC40, EVC40/LCB charging station.

Follow the charger instructions to install the bracket and charger to the pedestal in order with 5 M5 screws.

Lock the bottom with a M4 screw.





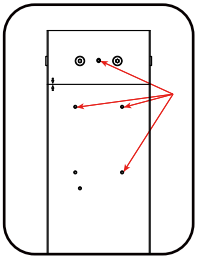


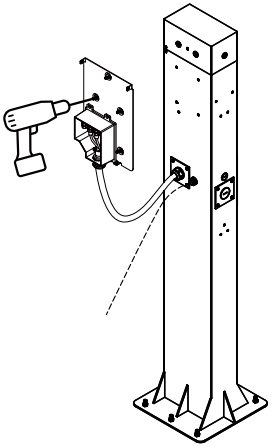
EVC48/LCB, EVC48 charging station.

Mount the bracket to the pedestal with 4 M5 screws.

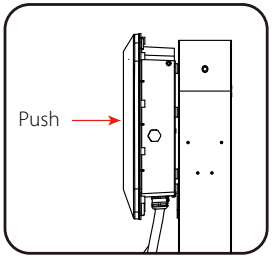
The charger's AC input cable enters the pedestal through the waterproof connector.

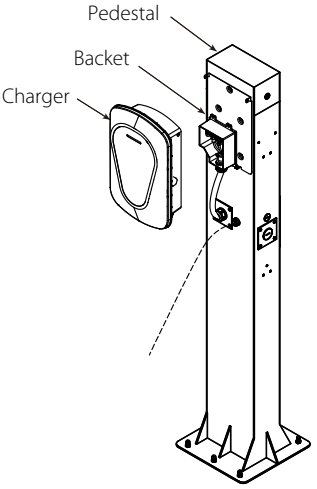
The charger's AC input cable is connected to the AC cable of the concrete pad.

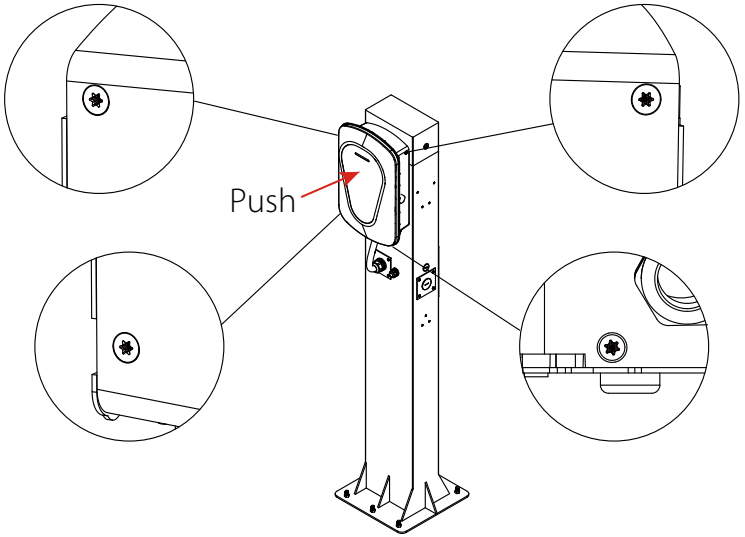




Install the charger to the pedestal, push the charger so that the four screw holes of the charger align with the four holes of the bracket, tighten with the4 M4 plum screws, with a tightening torque of 30 kg-cm.

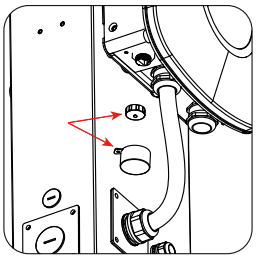


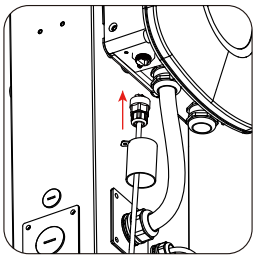




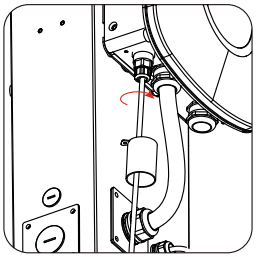
STEP 4

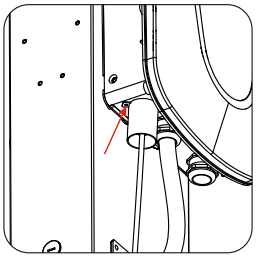
If you need to install a LAN cable, follow this procedure.
Remove the protective cover, unscrew the netting port cover , insert the netting into the port through the connector and protective cover *(in the charger accessory)*.





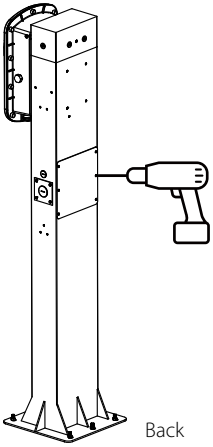
Tighten the connector.
Secure the protective cover to the charger with 2 M5 screws.





STEP 5

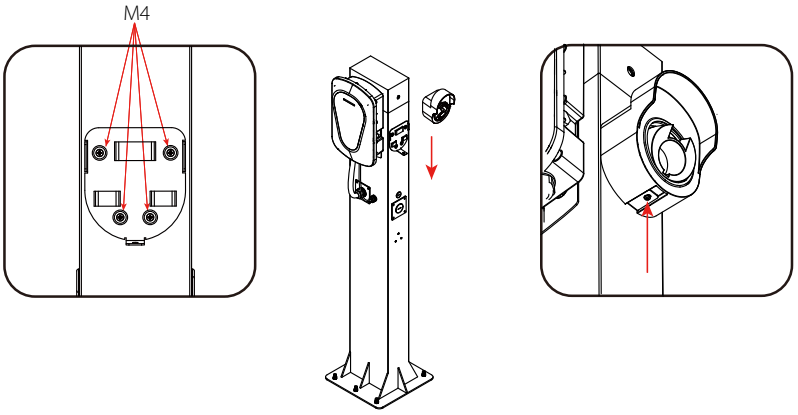
The AC cable and LAN cable exposed outside the pedestal are adjusted to a suitable length .
Cover the mounting plate and lock the screws.



Back

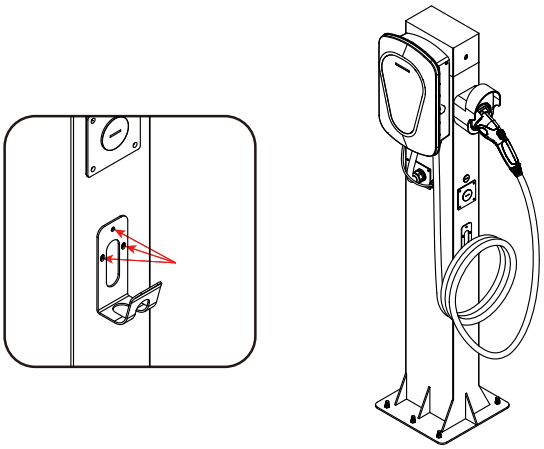
STEP 6

Attach the the bracket of charger nozzle to the pedestal, using 4 M4 screws.
Attach the charger nozzle to the bracket and lock the anti-theft screw on the bottom.



STEP 7

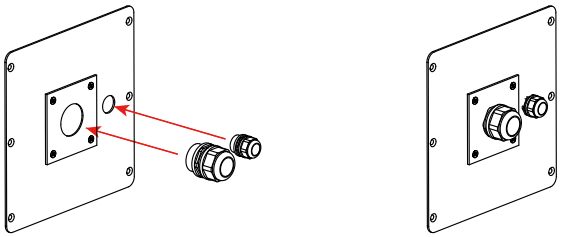
Secure the hooks to the sides of the pedestal with 6 M4 screws.
Complete the installation.



8.2 Back To Back

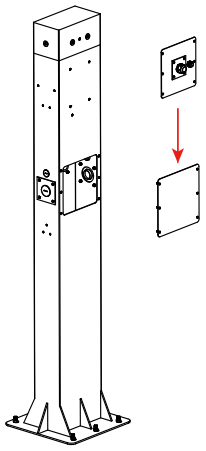
STEP 1

Attach the waterproof joints to the mounting plate*(in the charger accessory)*, according to 8.1 Step 1.



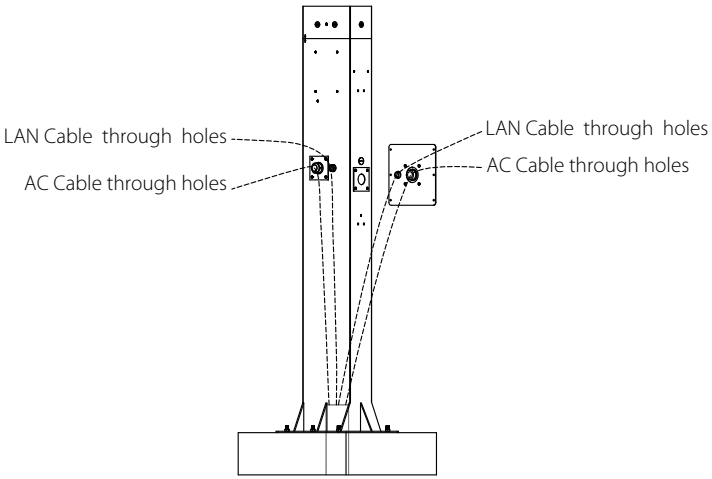
STEP 2

Replace the mounting plate *(no holes)* on the pedestal.



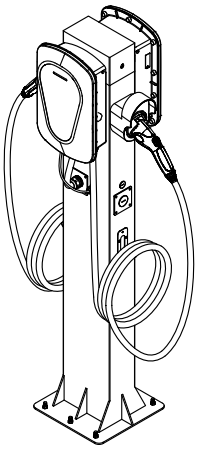
STEP 3

Install the inner ring of the waterproof joint *(front of pedestal)* in accordance with step 1 of 8.1.
Route the cables through the waterproof joints on the front and back.



STEP 4

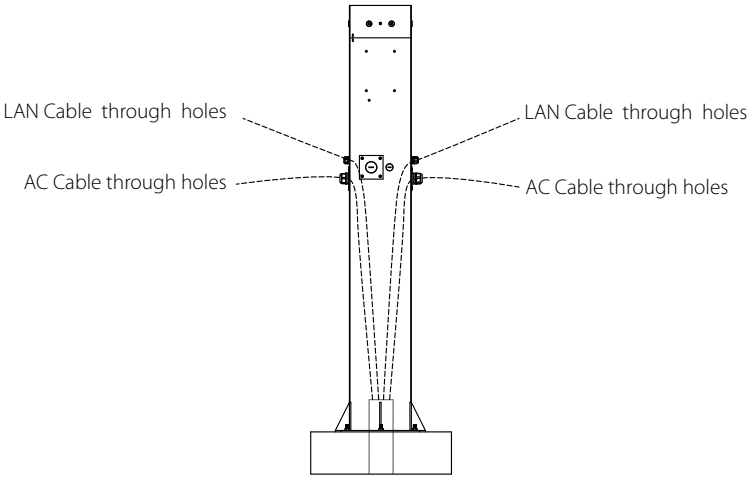
Follow steps 3-7 of 8.1 to install the charger to the pedestal.
Complete the installation.



8.3 Side-By-Side

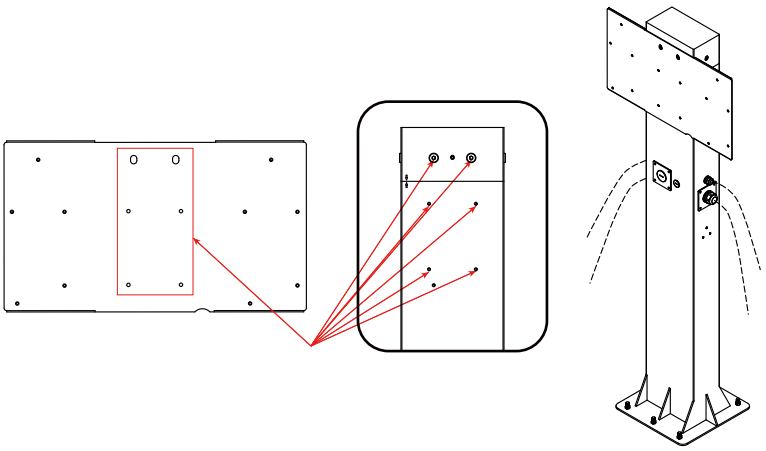
STEP 1

Install the inner ring of the waterproof joint in accordance with step 1 of 8.1.
Remove the front waterproof joints and install it on the side, and plug the vacant position with plugs.
Install the waterproof joints *(in the accessory)*to the side of the pedestal.
Route the cables through the two side waterproof joints.



STEP 2

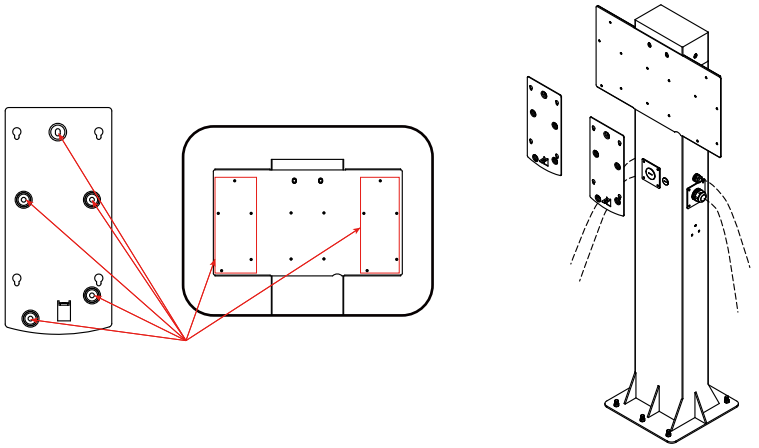
Fix the side by side mounting bracket to the pedestal with 2 M10 and 4 M5 screws.



STEP 3

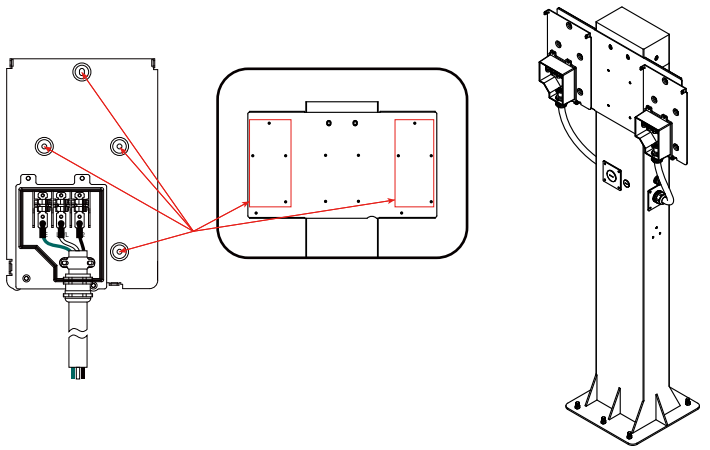
EVC32&EVC40, EVC40/LCB charging station.

Install the mounting bracket to the pedestal with 5 M5 screws.



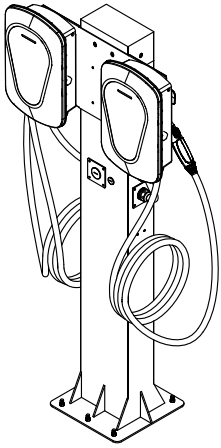
EVC48/LCB, EVC48 charging station.

Attach the mounting bracket to the pedestal with 4 M5 screws.



STEP 4

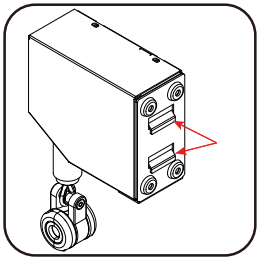
Follow steps 3 - 7 of 8.1 to install the charger to the pedestal.
Complete the installation.

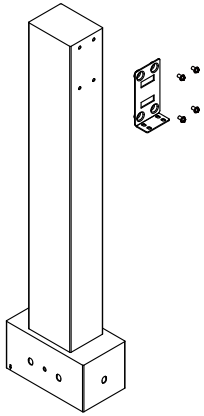


9. Install Cable Management

STEP 1

Fix the EVR backet to the cable management add-on with 4 M5 screws.
Hook the EVR to the bracket, making sure the clips are in place.

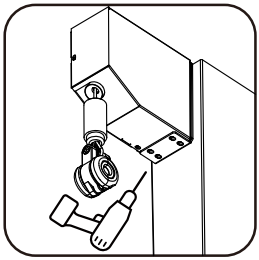


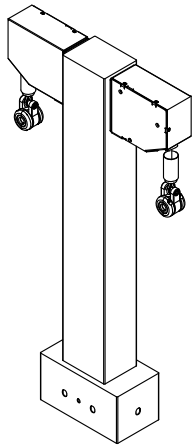


STEP 2

Use 4 M5 screws to lock the bottom.

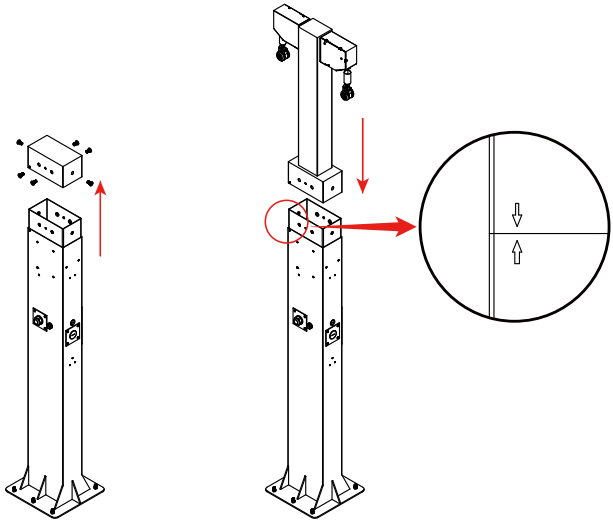
Note: *The bottom screws must be locked tight, otherwise there is a risk of the EVR falling off during use.*





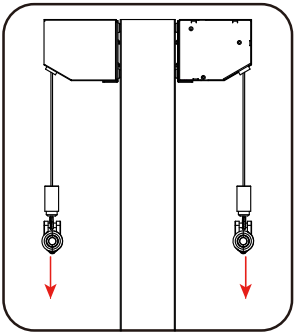
STEP 3

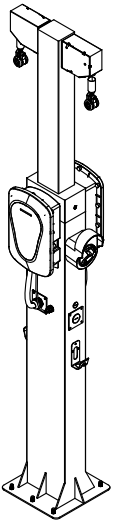
Remove the top cover of the pedestal with $^{15}/_{64}$-inch allen wrench, install the EVM in the direction marked by the arrow, securing it with 6 large M10 flat head screws.



STEP 4

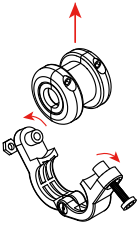
Pull down the slinger ring to the proper height and stop the steel rope moving.

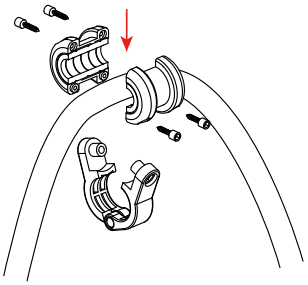


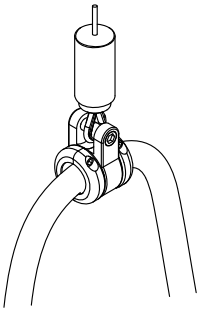


STEP 5

Open the cable clamp. *(When installing 40/32A or 80A cables, please use the replacement plastic pads in the accessory bag)*.
Insert the cable and lock it in the middle of the cable with 4 1/8-inch screws and allen wrench *(in the accessory bag)*.
Closed the cable clamp.

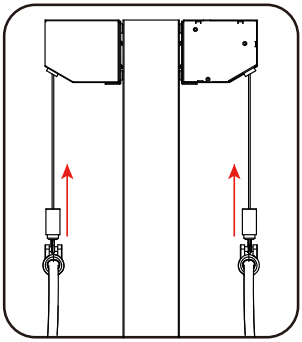


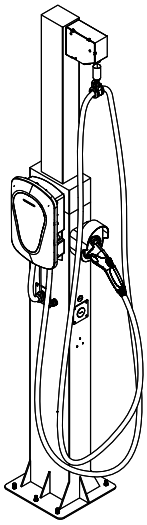




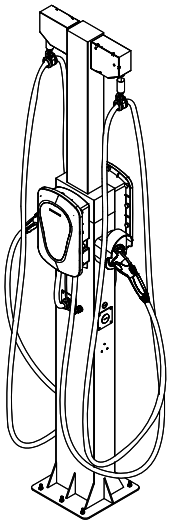
STEP 6

Pull the cable clamp and retract the rope back to the holder.

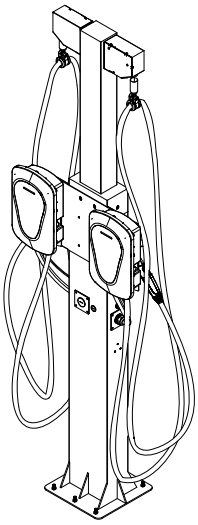




Single



Back to back



Side-by-side

10. Maintenance

- Regularly check and maintain the pedestal in half a year, clean the surface.
- Check whether the expansion screws of the fixed foundation are loose.
- Check whether the screws are loose.
- Check the surface of the pedestal for paint loss and collision.
- Check whether there is any crack in the concrete pad.

12. Warranty

Pedestal will be free from defects in materials and workmanship for a period of (3) years from the date of original sale to RAB's distributor. The product shall be considered defective only if it cannot be brought back to service by assistance from RAB technical product support representative. If you have a technical issue or question regarding warranty, call our technical support team at RAB Help line.

Defects in material or workmanship do not include improper installation or operation, alterations.

Defects caused by acts of vandalism and incidents beyond control of manufacturer resulting in inoperability of the pedestal are not covered warranty.

WE'RE HERE TO HELP:

1 (844) LIGHTCLOUD

1 (844) 544-4825

support@lightcloud.com

Technical Support:

844-544-4825

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