



Prestwich Travel Hub

Technical Submission

Electric Vehicle Chargers

Document Ref: 17300-247-P1-XX-T-E-600504

Revision: P02

Document Amendment Record Sheet

This sheet has been included to record the status of the document and should always be up-to-date in content.

Revision	Description	Date	By	Approved
P01	First Issue for Approval	27/06/2025	JM	DR
P02	EVC Quantity Amended	15/08/2025	JM	DR

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Technical Submission

Project:	Prestwich Travel Hub
Document Title:	Electric Vehicle Chargers
Document Ref:	17300-247-P1-XX-T-E-600504

To:	Vinci			From:	24-7 Group		
Issue Date:	15/08/2025			Required Response Date:	29/08/2025		
Issue Format:	Online Portal	✓	Download Link		-	Email	✓

Approval of the Following Equipment is Requested:

Equipment:	Electric Vehicle Chargers	Product Ref(s):	See attached schedule
Manufacturer:	Sevadis	Area(s) Used:	Ground Level External Roof Level
Model:	MaxiCharger	Drawing / Schedule Ref(s):	17300-247-P1-00-D-E-620000 17300-247-P1-00-D-E-620001 17300-247-P1-02-D-E-620004
Comments:	Details of Electric Vehicle Chargers. Refer to design drawings for Electric Vehicle Charger locations.		

Attached Detail Documents (tick and reference as appropriate)	Equipment Schedule	-	Installation Details	-	Physical Details	✓
	Catalogue	-	Performance	-	O&M Details	-
	Drawing	-	Description of Op's	-	Datasheet	✓

Technical Submission response:

By:		Date:				
Status:	A	No comment, proceed as document	B	Incorporate comments and proceed	C	Rejected, re-submit
Signed:						

Purpose of this Document

The purpose of this technical submission is to demonstrate the suitability of the electric vehicle chargers to be used for the new car park at the Prestwich Travel Hub.

Timing

The timing of this technical submission is to obtain approval for the electric vehicle chargers, to allow an order to be placed with the chosen supplier.

This is to allow delivery to arrive in line with the programme to facilitate the installation.

Specification References

Hannon Associates – Stage 3 MEP Services Performance Specification - Rev P03 –22nd January 2025
17300-HAN-P1-XX-T-X-000002 – Section 6.5 – Electric Vehicle Charging

Description

This technical submission provides detail of the electrical vehicle charging units to be installed in the new multi-story car park that forms part of Prestwich Travel Hub. There are **31no.** electrical vehicle charging units serving **31no.** car parking spaces. 24no. units are located on the ground floor external car park, **1no. is located on the ground floor accessible EV parking space**, with the remaining 6no. units located on the roof level. The external ground floor units comprise of a mixture of structure mounted, single pillar and dual pillar modules. The roof mounted units are all structure mounted. Each charger contains a 7.4kW outlet. The charging units are AC type and are provided with type 2 charging sockets.

The system software for the charging units is to be installed on the clients front end PC located in the ground level plant room. A back office subscription has been included for the first year. There will be an annual charge to the client after the first year. The system is open protocol meaning the client may use an alternative provider after the first year if preferred.

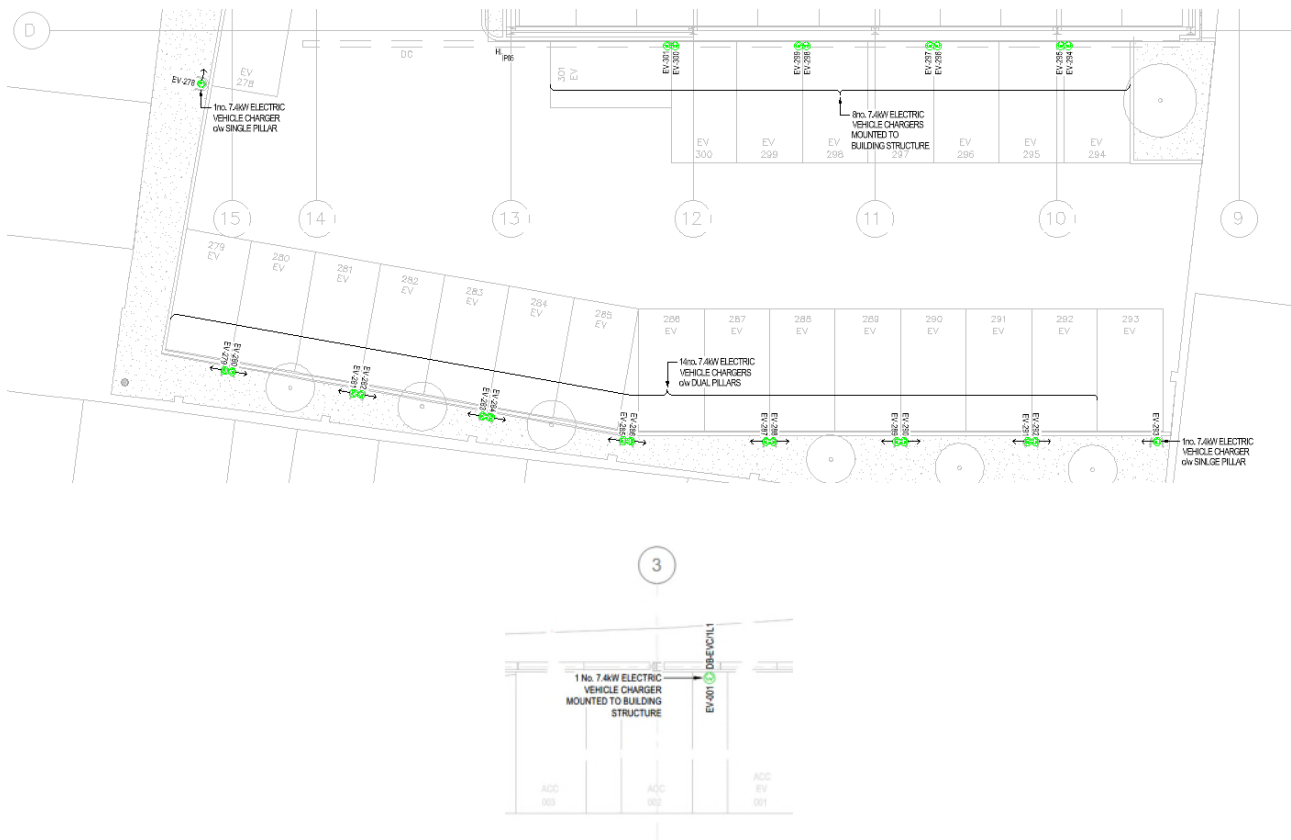
The charging units are proposed to be connected via Wi-Fi. All chargers will form one group on the network. Dynamic load balancing is included within the system software to allow for load management for the current **31no.** chargers. The chargers will be grouped and managed through the system software to set maximum load from day 1. Any amendments to load balancing in the future will require a call out to the manufacturer to amend. All chargers will failsafe to 1.8kW if data connection is lost.

Billing Options

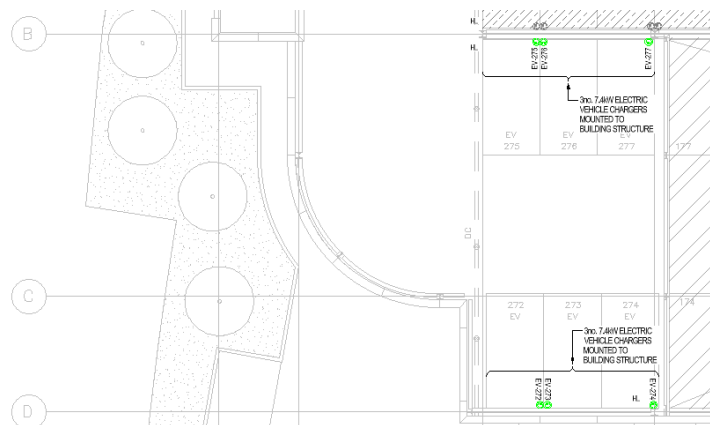
Final billing option is to be decided by the client. The below outlines possible scenarios.

- **QR Code** – Scanning a QR code take the customer to a fixed tariff payment page where online payment can be made.
- **App** – Customers can make payment through the app to prevent regular users having to scan a QR code. Bank details can be set up for a faster turnaround. It is possible to have different tariffs on the app.
- **RFID Fobs** – Can be arranged for regular users if required that are linked back to the app. *(Note: There is currently no allowance for RFID Fobs with this order. Please advise if you would like a quotation for this option).*
- **Standalone Payment Kiosk** – Customers can pay on a debit/credit card at a standalone payment kiosk for each individual charger *(Note: There is currently no allowance for a standalone payment kiosk with this order. Please advise if you would like a quotation for this option).*

Ground Floor – Electric Vehicle Charger Locations:



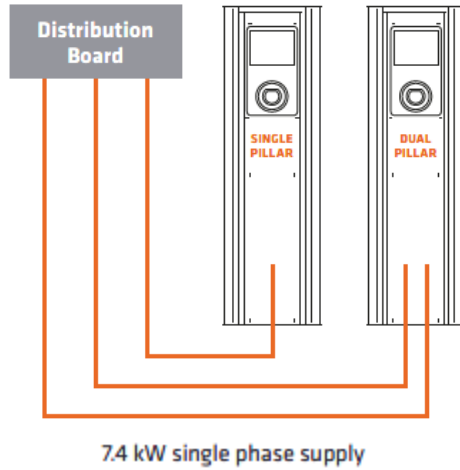
Roof Level – Electric Vehicle Charger Locations:



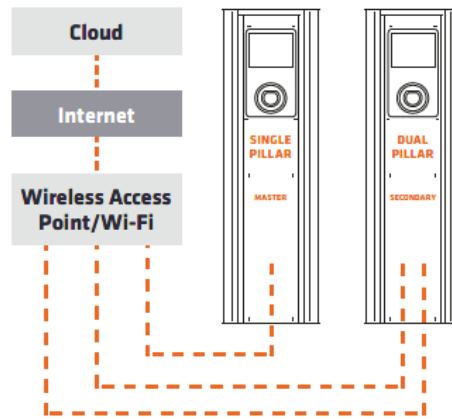
Power & Comms Wiring Configurations:

Standard power connection (one feed per outlet)

Single outlet pillar requires 1x cable
Dual outlet pillar requires 2x cable



Wi-Fi connection (ensure signal strength sufficient)



Schedule of Equipment

Reference	Product Description
EV Charger	<u>Sevadis – MaxiCharger (EVMX74)</u>
	Smart Online AC Wallbox – Socket (Black)
	Mode 3, Type 2 Charging Socket
	7.4kW Rated on Single Phase
	32A Rated Current / 230V AC
	Location Used: Ground Level External, Ground Level Accessible EV Space & Roof Level
Single Pillar	Sevadis – MaxiCharger Pillar Single (EVMCSPP)
	Floor Standing Single Pedestal Housing (Black)
	Location Used: Ground Level External Perimeter Chargers
Dual Pillar	Sevadis – MaxiCharger Pillar Dual (EVMCDPP)
	Floor Standing Dual Pedestal Housing (Black)
	Location Used: Ground Level External Perimeter Outlets
Foundation	Foundation Kit for Project Pillar (EVRFPF)
	Location Used: Ground Level External Perimeter Chargers

Supporting Documentation

FOR BUILT ENVIRONMENT PROJECTS

The MaxiCharger is a wall or pedestal-mounted, smart, single-outlet universal Type 2 socket EV charger. It is OCPP 1.6J compliant, has built-in PME fault detection on single and three-phase connection, and both static load management and dynamic load balancing capabilities.

The MaxiCharger is robust, aesthetically pleasing, and suitable for all environments. Allowing EV drivers to charge with 7.4 kW charging speed, the MaxiCharger is an ideal charging solution for domestic and commercial requirements.



Product Code	Product Name and Description
EVMX74	MaxiCharger Smart Online AC Wallbox 7.4 kW - Socket (Black)
EVMX744G	MaxiCharger Smart 4G AC Wallbox 7.4 kW - Socket (Black)

Technical Specification	
Charging type	Mode 3, Type 2
Charging power	7.4 kW on single-phase
Rated current	32 A/16 A
Rated frequency	50 Hz
Input/output voltage	230 V+-10%: L1, N, PE
Network type	TT, TN
RCD	Integrated 6mA DC + 30mA AC leakage detection
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC residual current protection, integrated surge protection
PME fault detection	Incorporated within the unit

User Interface	
Status indication	LED/APP
User interface	MaxiCharger APP, MaxiCharger Service Software, web portal
Connectivity	Bluetooth, Wi-Fi, Ethernet, 4G (SIM not included)
Communication protocols	OCPP 1.6J
User authentication	APP, RFID card, QR code



General Characteristics

IP and IK rating	IP54, IK08
Operating altitude	2000 m
Operating temperature range	-40°C ~ + 55°C
Storage temperature range	-40°C ~ + 85°C
Mounting	Wall or floor using a pedestal
Weight	3600 g
Dimensions (WxHxD)	187 mm x 336 mm x 85 mm

Software Update

Software update	APP or web portal
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Certification and Standards

Safety standards	EN/IEC 61851-1, EN/IEC 62196-2, EN/IEC 62955, BS7671
Certification	CE, UKCA (TUV)
Warranty	36 months

FOR BUILT ENVIRONMENT PROJECTS

The MaxiCharger Pillar is a floor-standing, smart, universal Type 2 socket EV charger that is available in single and dual-socket options. It is OCPP 1.6J compliant, has built-in PME fault detection on single and three-phase connection, and both static load management and dynamic load balancing capabilities.

Allowing EV drivers to charge with 7.4 kW charging speed, the MaxiCharger is an ideal charging solution for domestic and commercial requirements. The pillar housing is finished in a powder-coated steel with bespoke branding options available.



Product Code	Product Name and Description
EVMX74	MaxiCharger Smart Online AC Wallbox 7.4 kW - Socket (Black)
EVMX744G	MaxiCharger Smart 4G AC Wallbox 7.4 kW - Socket (Black)
EVMCSPP	MaxiCharger Single Pedestal Housing
EVMCDPP	MaxiCharger Dual Pedestal Housing
Please note that if opting for a dual MaxiCharger Pillar, x2 MaxiChargers are required. The same principle applies to 3-way and 4-way options.	

Technical Specification	
Charging type	Mode 3, Type 2
Charging power	7.4 kW on single-phase
Rated current	32 A/16 A
Rated frequency	50 Hz
Input/output voltage	230 V+/-10%: L1, N, PE
Network type	TT, TN
RCD	Integrated 6mA DC + 30mA AC leakage detection
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC residual current protection, integrated surge protection
PME fault detection	Incorporated within the unit



User Interface

Status indication	LED/APP
User interface	MaxiCharger APP, MaxiCharger Service Software, web portal
Connectivity	Bluetooth, Wi-Fi, Ethernet, 4G
Communication protocols	OCPP 1.6J
User authentication	APP, RFID card, QR code

General Characteristics

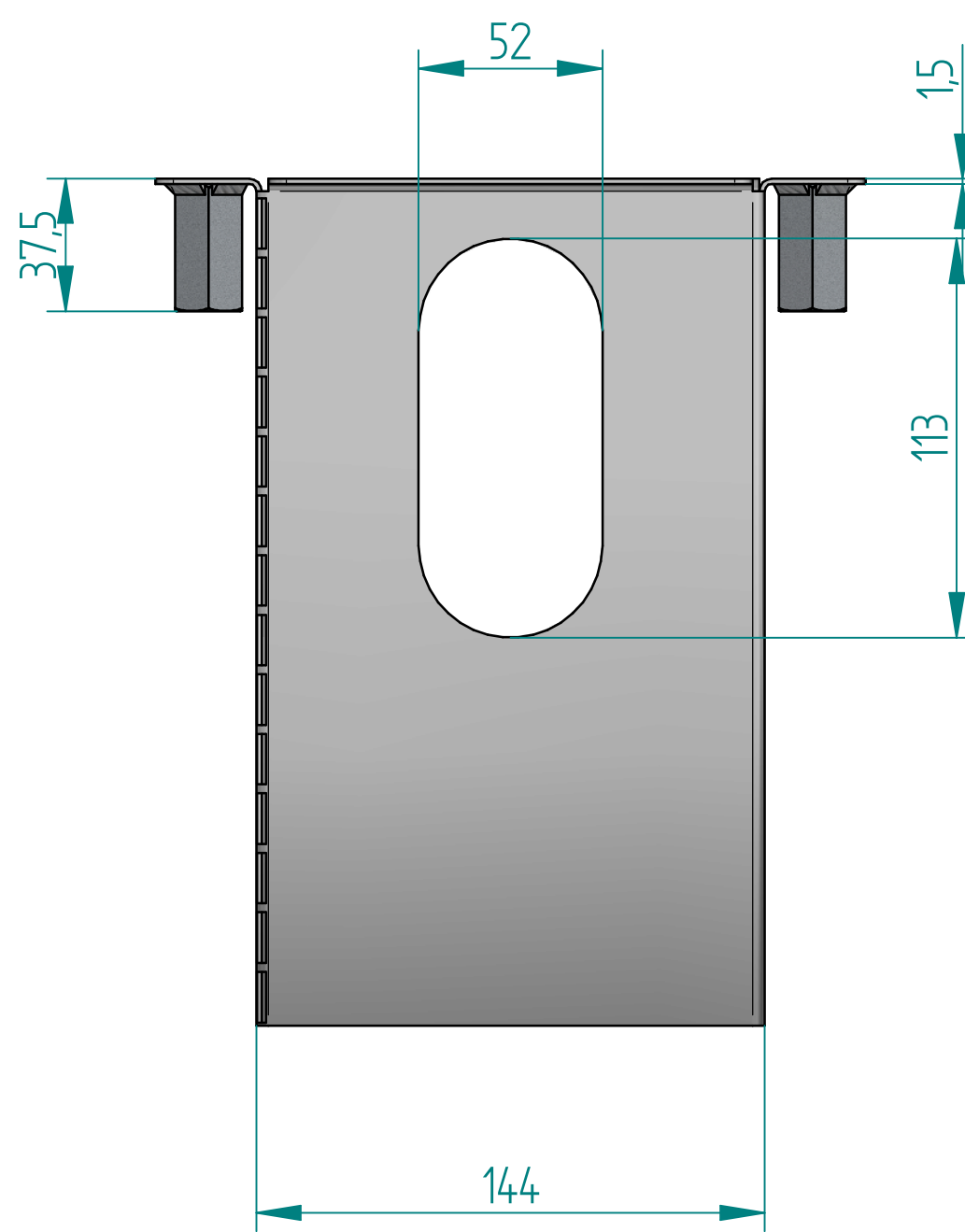
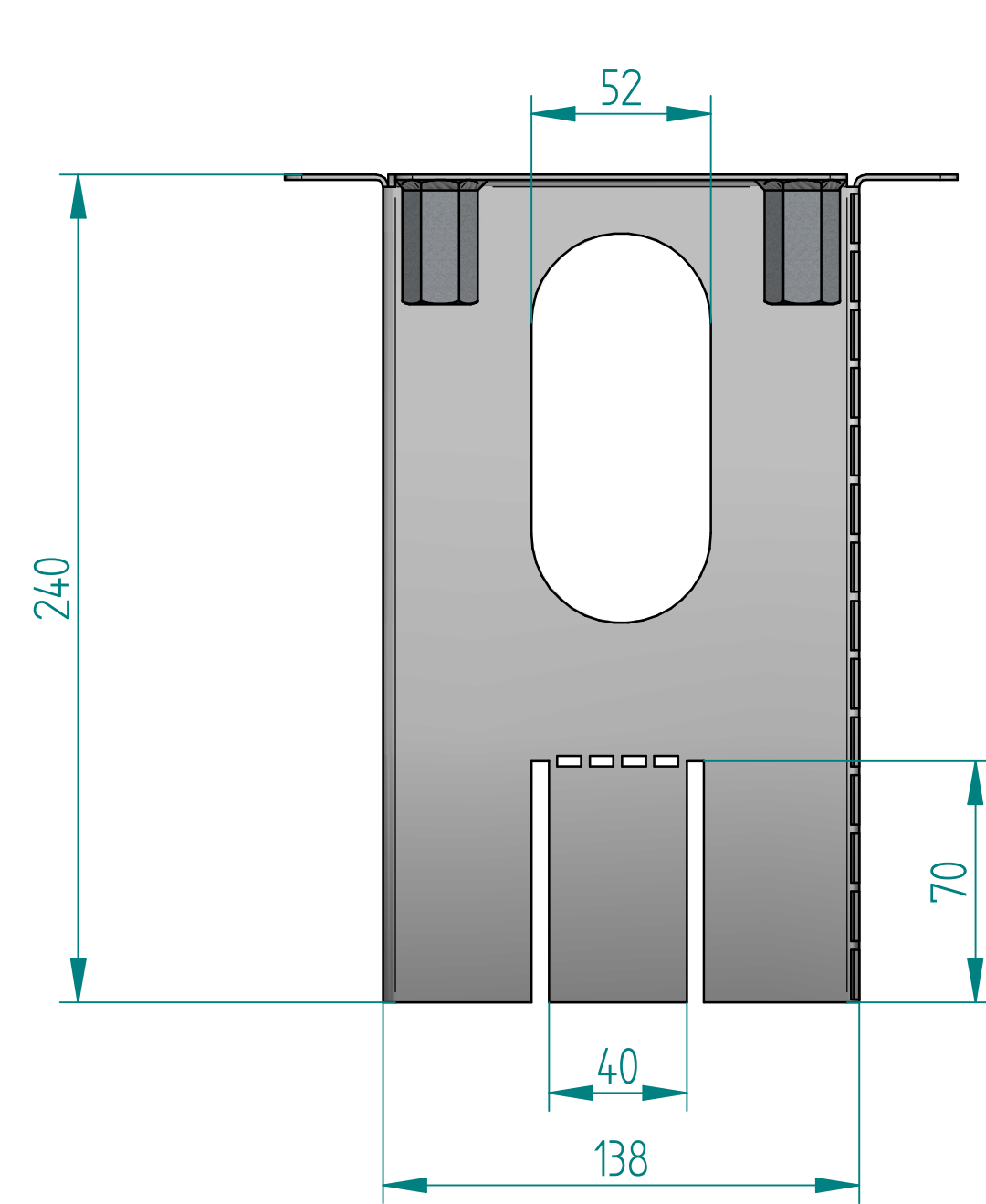
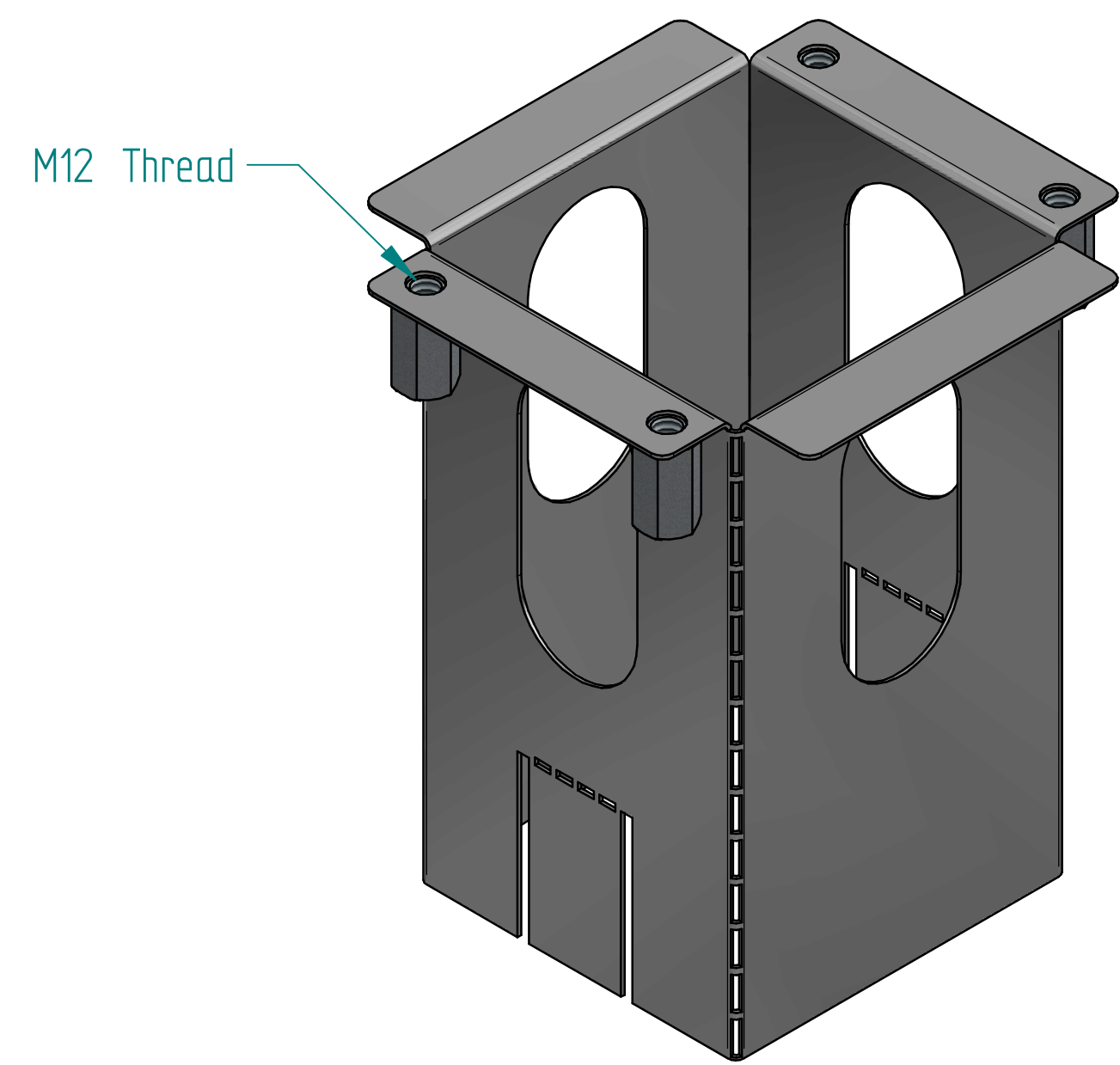
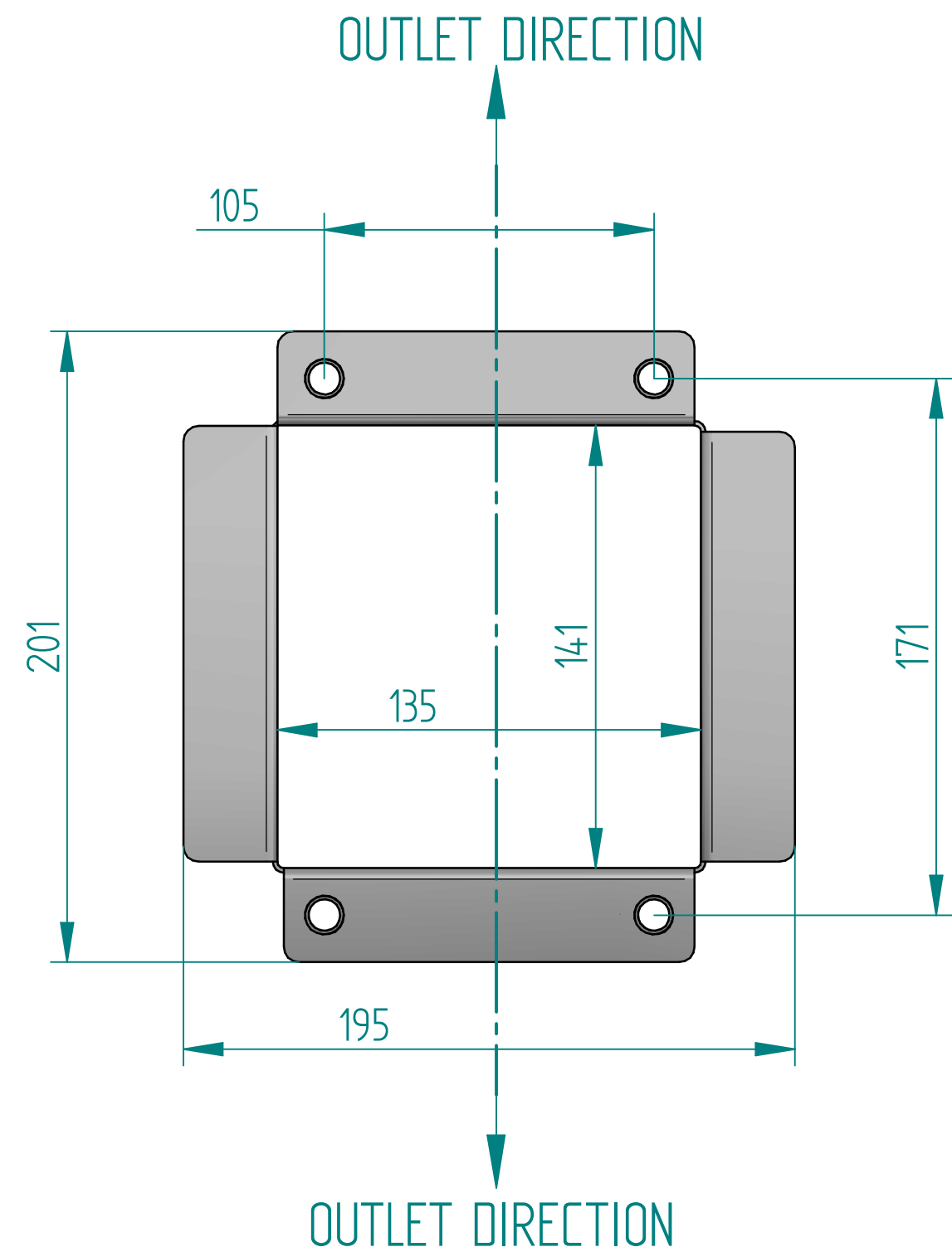
IP and IK rating	IP54, IK08
Operating altitude	2000 m
Operating temperature range	-40°C ~ + 55°C
Storage temperature range	-40°C ~ + 85°C
Weight	3600 g
Dimensions (WxHxD)	Unit: 187 mm x 336 mm x 85 mm Pillar: 362 mm x 1197 mm x 270 mm

Software Update

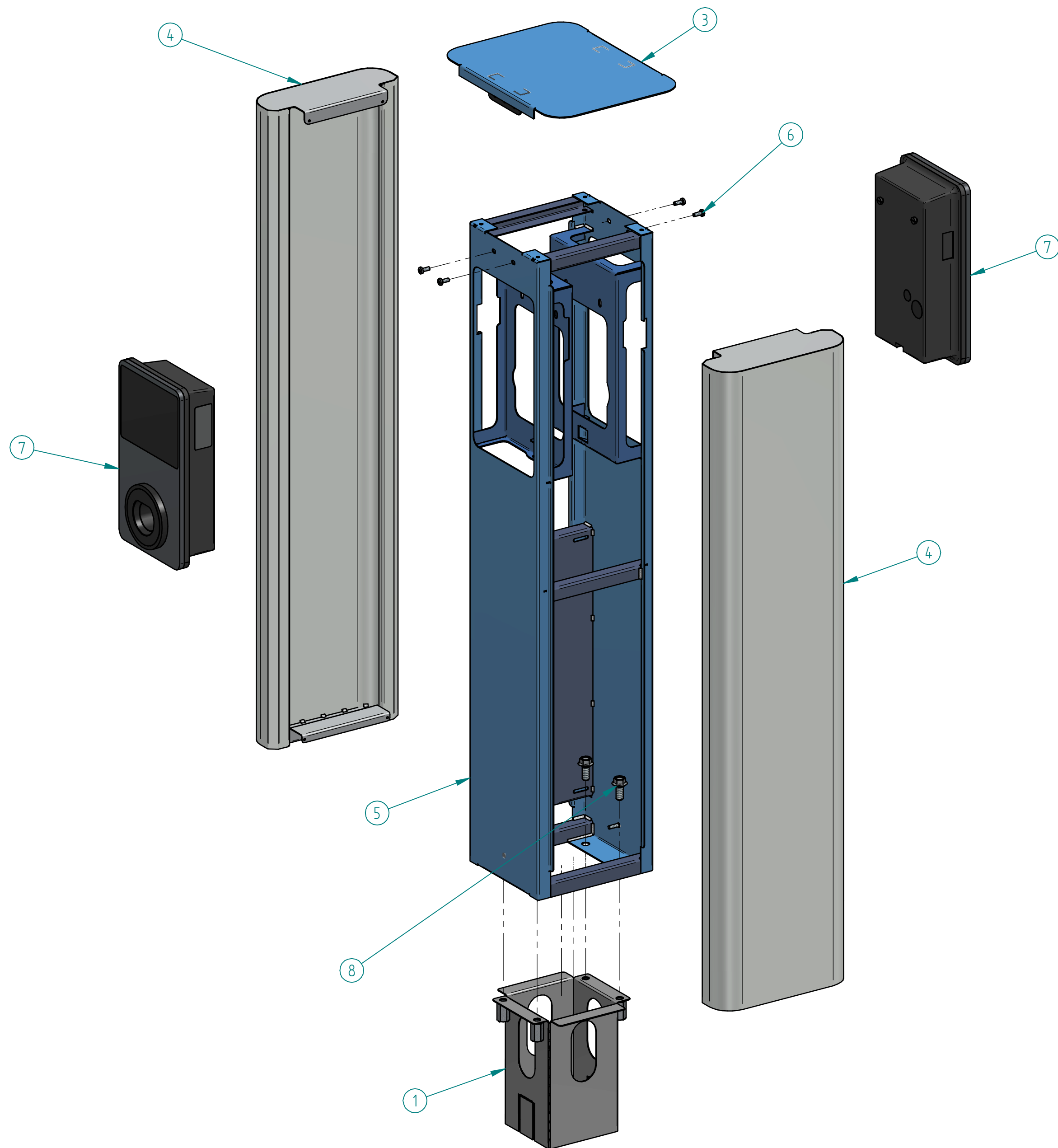
Software update	APP or web portal
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Certification and Standards

Safety standards	EN/IEC 61851-1, EN/IEC 62196-2, EN/IEC 62955, BS7671
Certification	CE, UKCA (TUV) Compliant to the Electric Vehicles (Smart Charge Points) Regulations 2021, inc. Schedule 1
Warranty	36 months



SEVADIS			
TITLE Root foundation kit for Project Pillar			
SIZE A2	DWG NO EVRFPF		REV A
FILE NAME	EVRFPF.dft		
DRAWN	JS		
DATE	24/02/23	DIMENSIONS mm	
WEIGHT:	1698 kg	SHEET 1 OF 2	



Item Number	File Name (no extension)	Quantity
1	EVRFPP GROUND ANCHOR	1
3	DUAL CHARGING STATION TOP PANEL	1
4	DUAL CHARGING STATION SIDE PANEL V2	2
5	DUAL CHARGING STATION CORE	1
6	M6 x 15 T25 Metric Security Torx Pan Head Screw – Stainless Steel	4
7	MAXI CHARGER SINGLE PORT	2
8	M12x30 BOLT	4

SEVADIS			
TITLE Root foundation kit for Project Pillar			
SIZE A2	DWG NO EVRFPP		REV A
FILE NAME	EVRFPP.dft		
DRAWN	JS		
DATE	24/02/23	DIMENSIONS mm	
WEIGHT:	1698 kg	SHEET 2 OF 2	

