M E L
B Y
E

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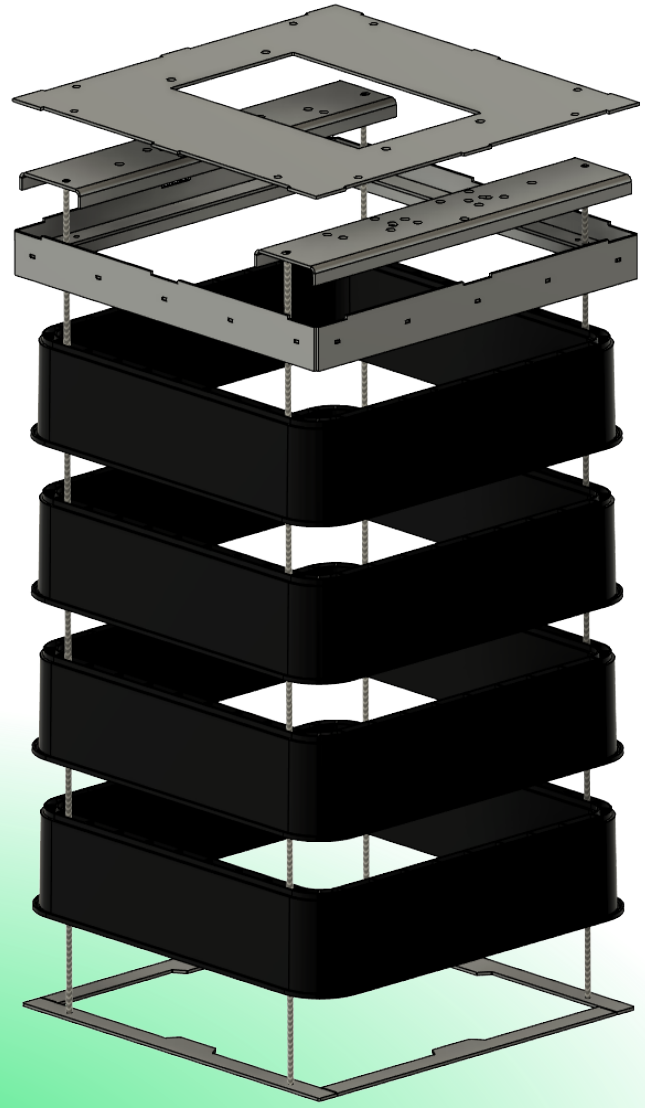
Installation Manual

Complete guide for E-foundation

The purpose of this manual is to provide general recommendations for contractors and installers on how to mount and install E-foundation chambers and accessories from Melbye Group.

As a complement to this manual, refer to Swedish standard SS-EN 124:2015 and the AMA 20 regulations for construction, civil engineering, and installation contracts.

Always follow national rules and regulations regarding safety during excavation, installation, and site closures related to construction work.



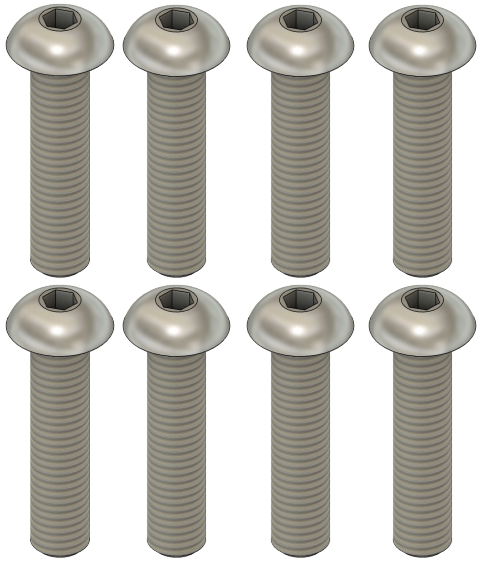
- ✓ **Alpitronic:** HYC400, HYC200, HYC50, HYC1000
- ✓ **ABB:** Terra HP, Terra 124/184, Terra 360, DC50, DCA400
- ✓ **Autel:** AC Ultra, DC compact, Hipower, DC240kw, DH480
- ✓ **Delta:** UFC 500/200
- ✓ **Efacec:** EV-QC180, EV-QC120
- ✓ **Ekoenergetyka:** SAT400, SAT600, Axon 400, SAT1500
- ✓ **Garo:** LS4 43kw
- ✓ **Kempower:** Satellite, Satellite LC, C801, C802, C803, Station Charger
- ✓ **Rolec:** UC 40/80, UC180, UC400
- ✓ **Schneider:** Evlink, Evlink PRO
- ✓ **Siemens:** D-Dispenser, D-High tower

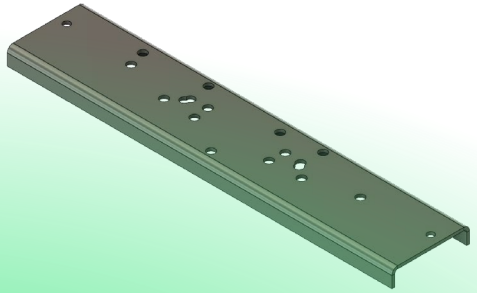
New adaptor plates can be developed upon request

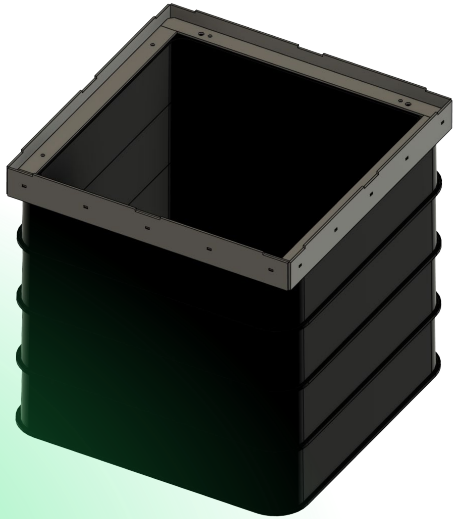
For foundations for power units, we also offer complete solutions for, Kempower, Alpitronic, Ekoenergetyka, Siemens and Autel

- → **Included:** 6pcs Press Nuts M12 or M16
- → **Included:** 8pcs M10x50mm button head bolts
- → **Included:** 2pcs Reinforcement frame
- → **Separate purchase:** Adaptor plate for EV-charger

- → **On site:** 19 or 24mm socket
- → **On site:** Ratchet or Impact wrench
- → **On site:** 6mm Allen key
- → **On site:** Excavating Equipment



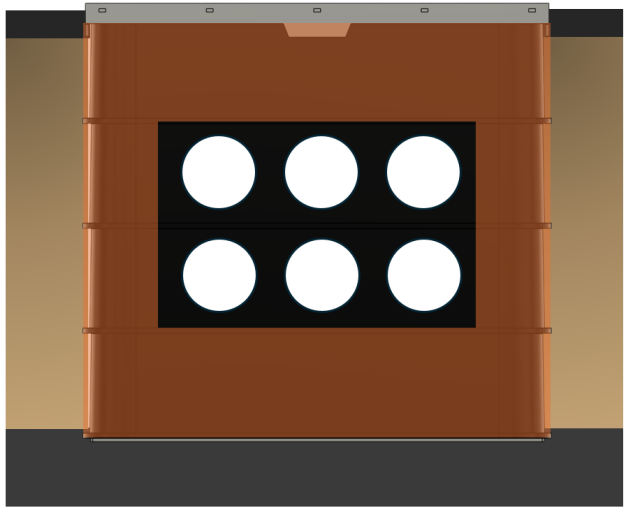




Step 1 – Mark the chamber dimensions length and width on the ground, allowing at least an additional 200mm on each side. All chambers need a minimum excavation depth of 900mm to allow 200mm of compacted 0-16 material.

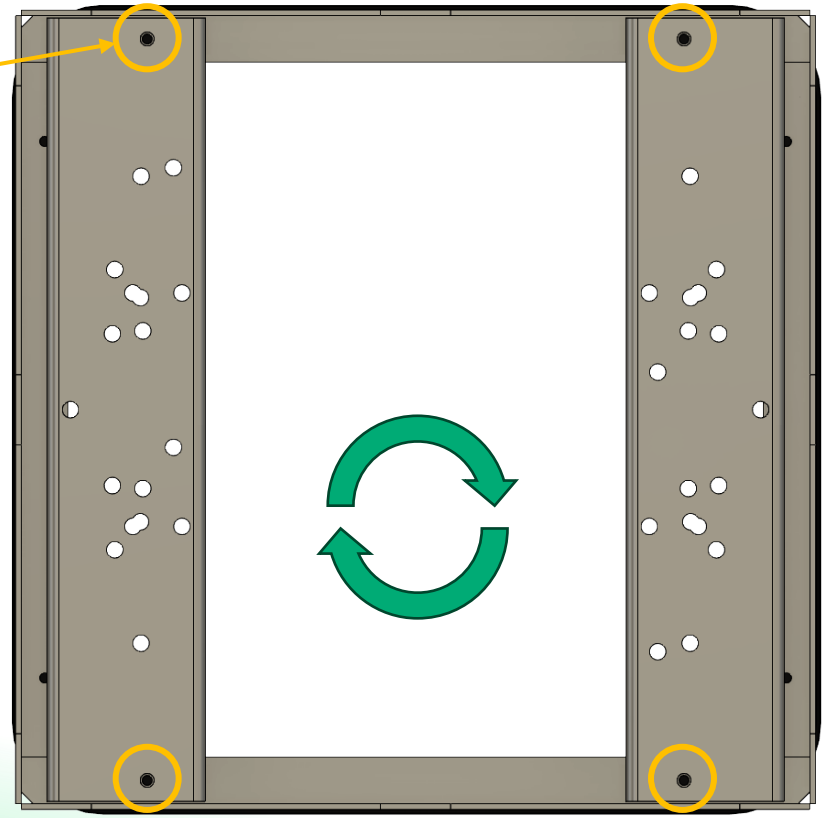
Step 2 – Hole/duct entry positioning. Holes must be drilled 110mm from outer edge of chamber. Distance between holes should be half the diameter of duct entry. Avoid drilling holes in top and bottom section. Holes can be drilled in between 2 sections.

Step 3 – Backfill around the foundation evenly to lock it into position, preferably by hand. When the first 2 sections are covered compact the material using a vibrator < 100 kg. Repeat until correct ground level has been reached.

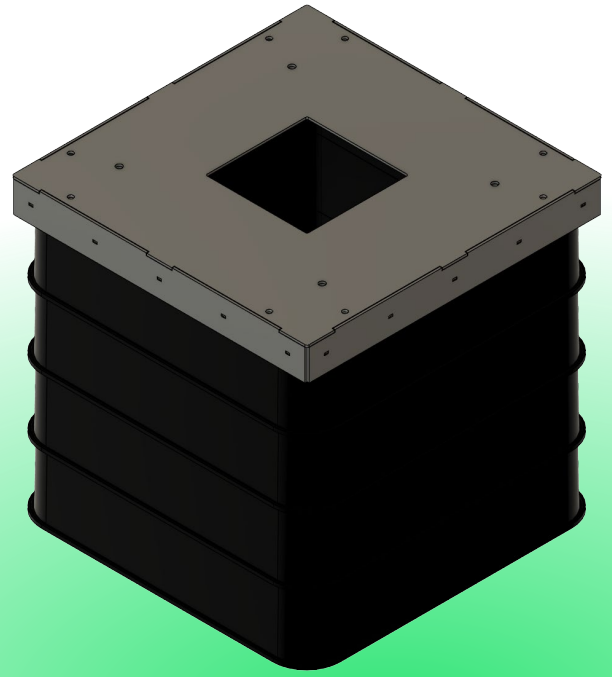


1. 20 cm of compacted backfill material around chamber
2. Duct entry can be placed 110mm from chamber wall

Step 1 – Align reinforcement frame with holes in top frame.

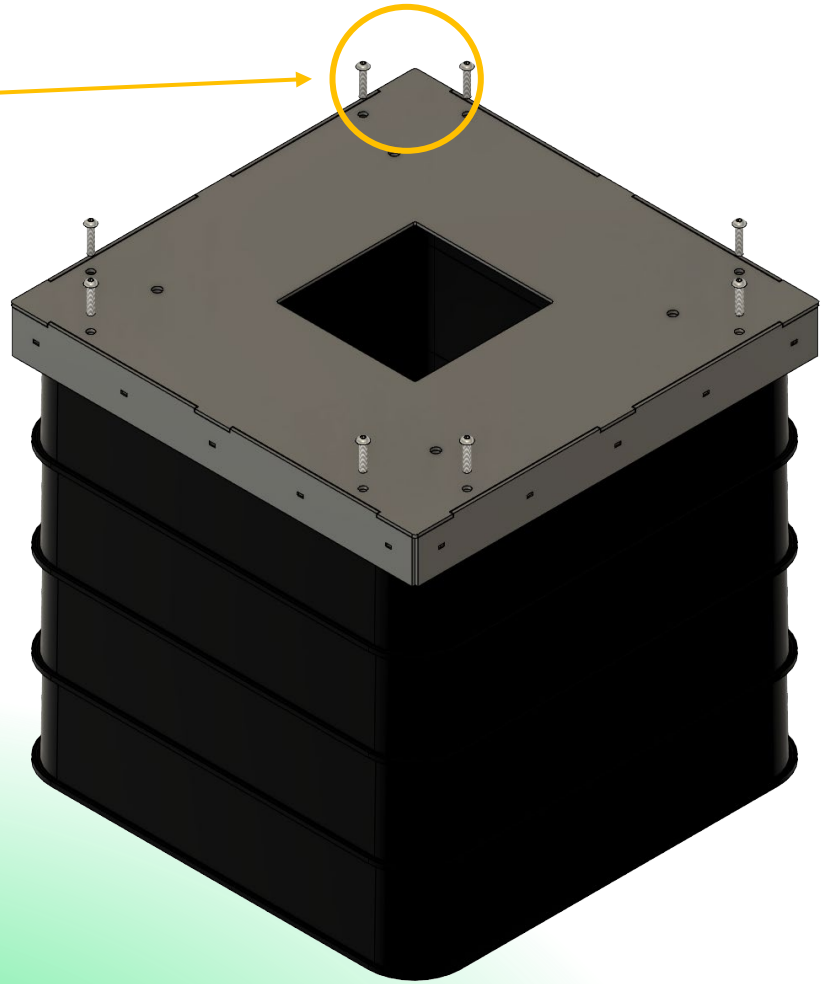


Step 2 – Place adaptor plate on foundation to find holes in reinforcement frame that will be used for intended EV-charger



Note: Reinforcement frames can be rotated 90 degrees

Step 3 – Use 8pcs M10x50mm button head bolts to fixate the adaptor plate on the foundation. This will be used as template for press nuts.



Step 4-10 will show how to mount press nuts to the reinforcement frame

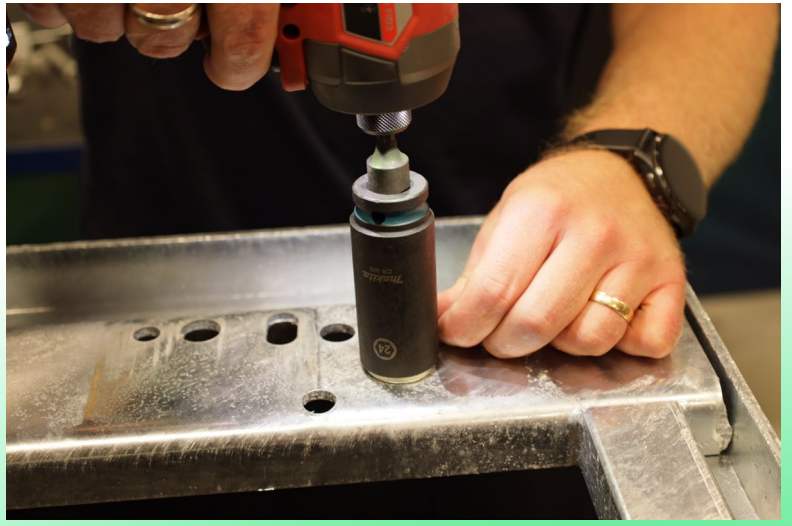
Reinforcement frame is delivered with pre-drilled 14mm holes for M12 press nuts

→ **Step 4:** Position press nut on the underside of reinforcement frame

→ **Step 5:** Attach M12 bolt included in foundation package

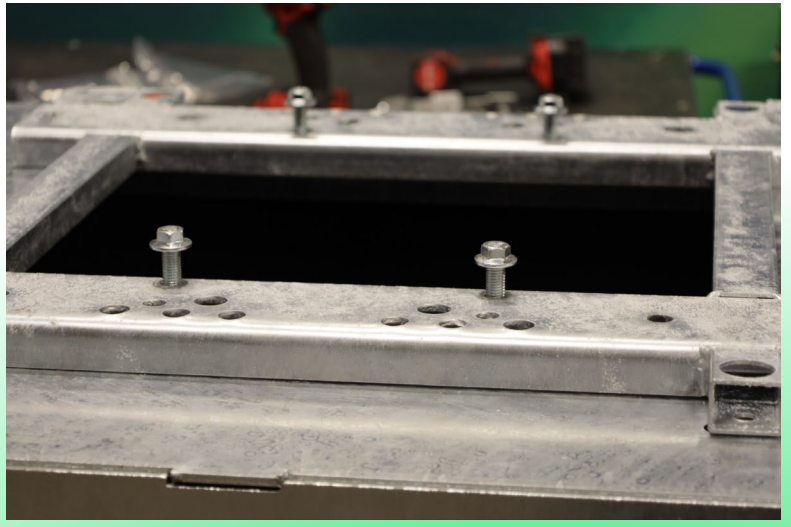
→ **Step 6:** Use hand force to attach bolt

→ **Step 7:** Use impact wrench or ratchet to tighten bult and press nut 20-25Nm



→ **Step 8:** Remove bolt and you should now have a thread that can be used for mounting EV-charger on the reinforcement frame

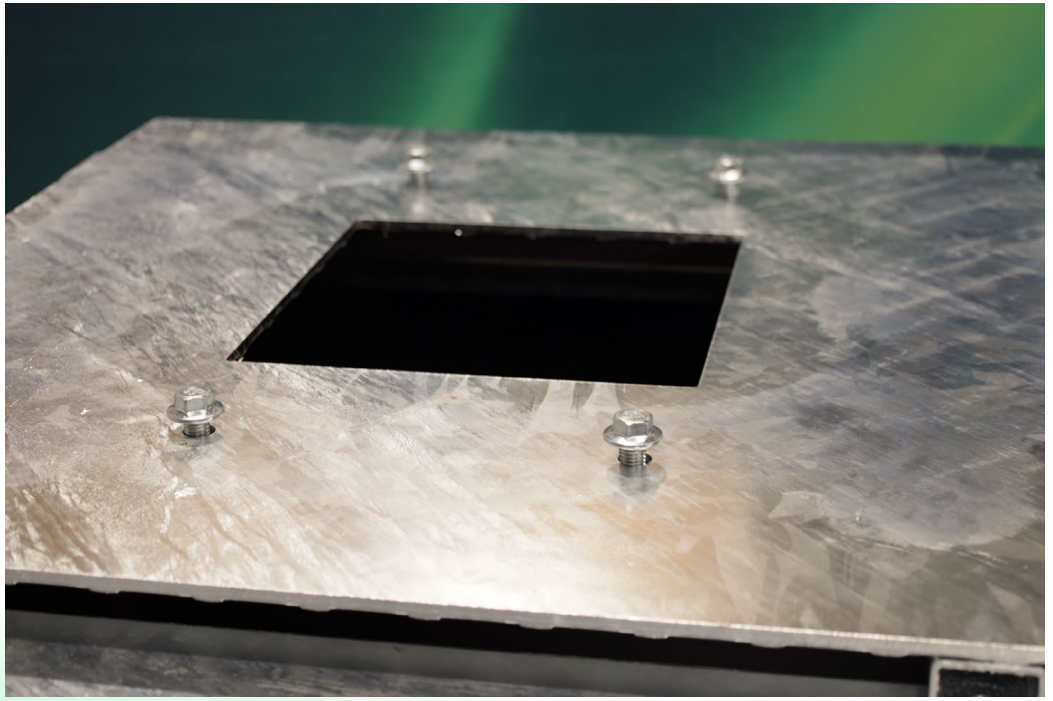
→ 40mm bolts included in package can be used



→ **Step 9:** Remove bolt and you now have a thread that can be used to mounting EV-charger on the reinforcement frame

→ **Step 10:** Tighten poles by inserting steel rod in holes and turn.

Press Nuts can be used several times if mounted in the wrong position

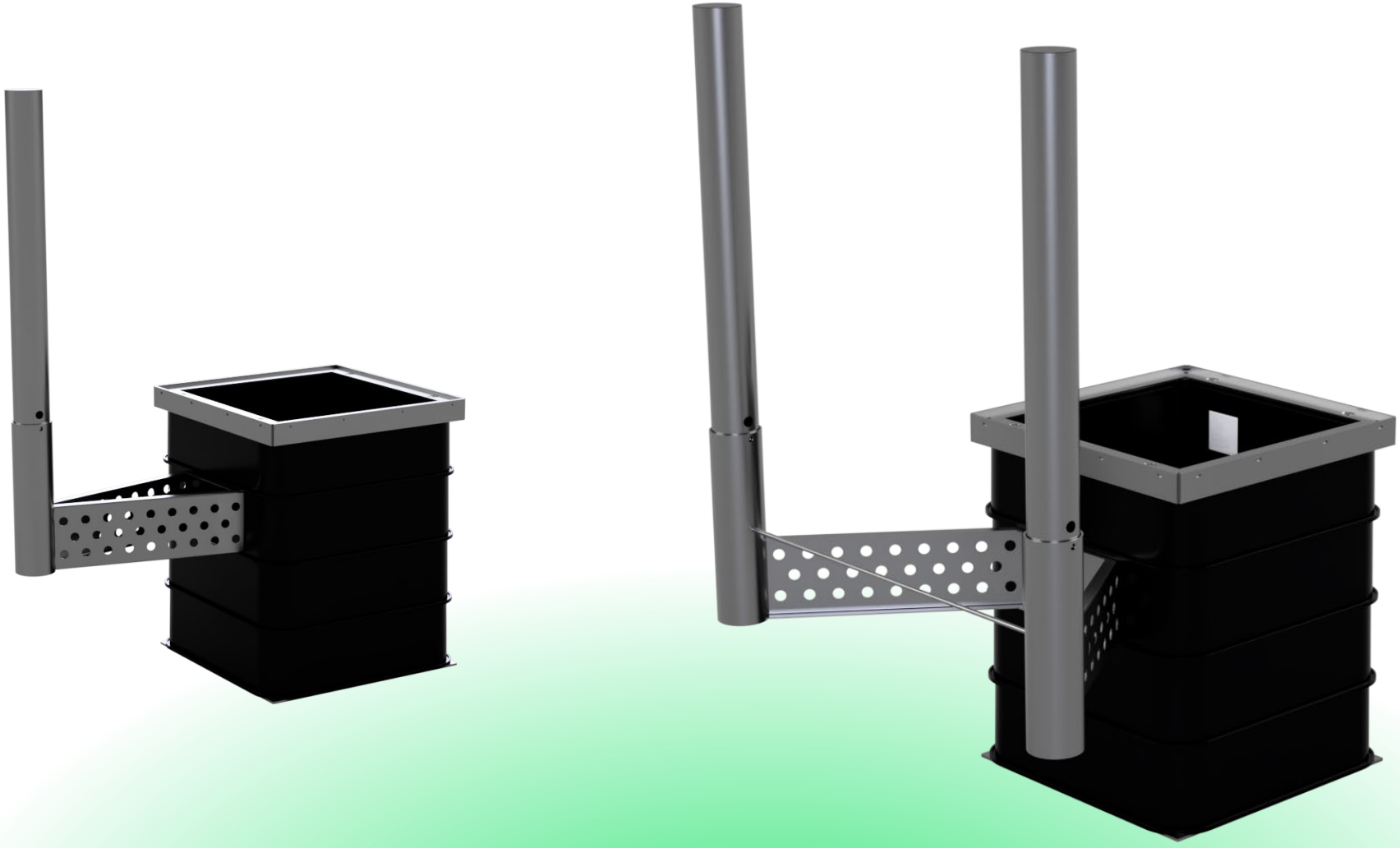


→ **Step 11:** Install EV-charger on foundation

Following steps will include installation of collision protection *2742011/ 2742012*

Accessories

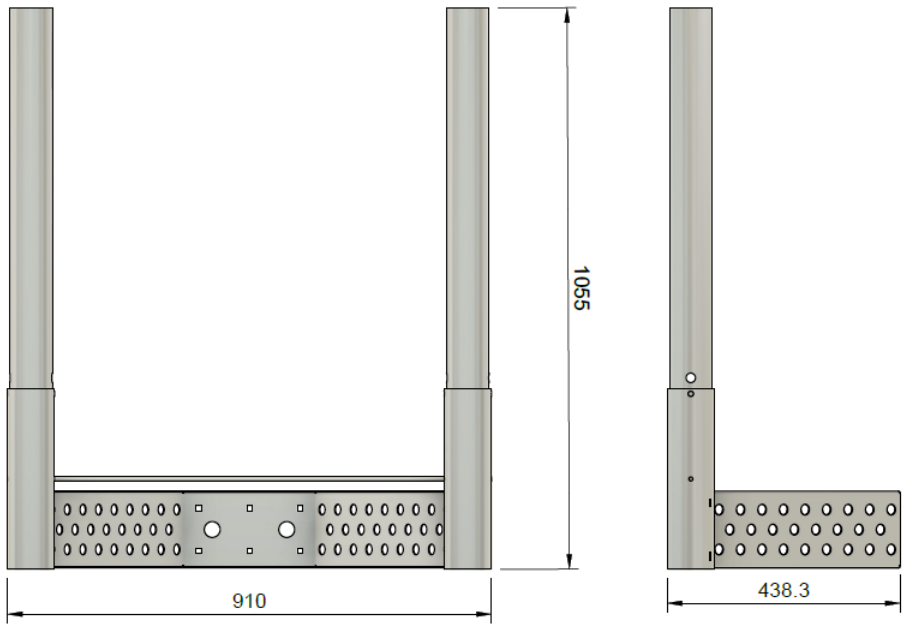
- *Collision protection Double: 2742011*
- *Collision protection Single: 2742012*
- *Collision protection spare pole: 2742013*
- *M12 Bolt kit EV-Charger: 126103*
- *M16 Bolt kit EV-Charger: 126104*
- *Button Head bolt: 126105*
- *M12 Press Nut: 126345*
- *M16 Press Nut: 126344*

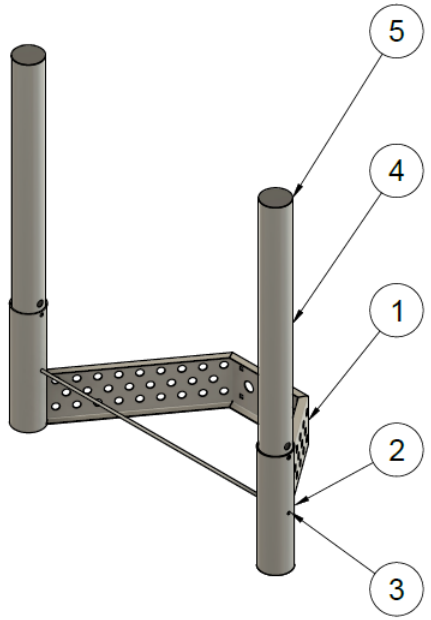


Product Drawing – 2742011

MELBYE

Parts List				
Item	Qty	Part Number	Material	Mass
1	1	Untitled	Steel	5.1 kg
2	2	Untitled	Steel	2.2 kg
3	1	Untitled	Steel	0.4 kg
4	2	Untitled	Steel	1.8 kg
5	2	Plastlock	Steel	0.2 kg



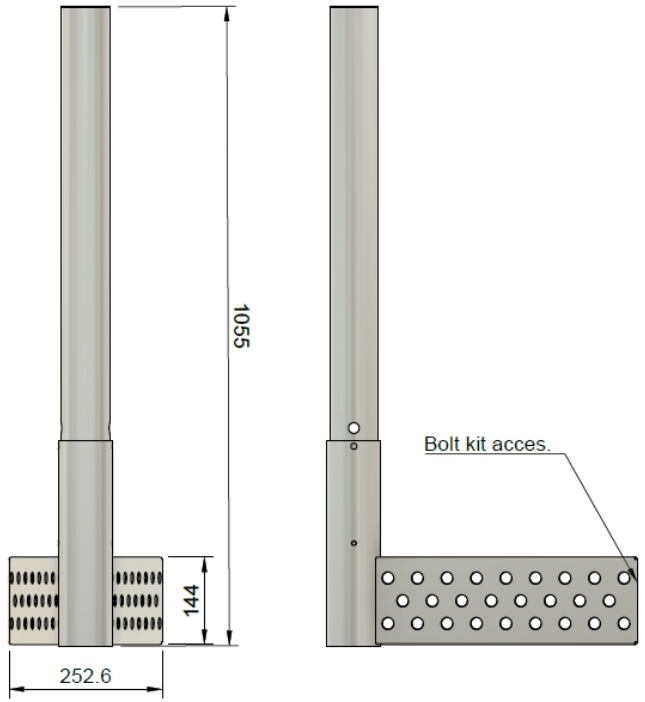


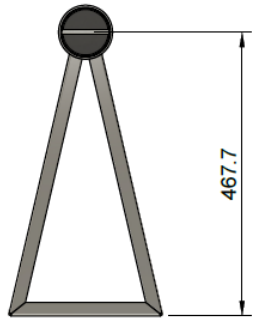
Dept.: 200	Technical reference:	Created by: Simon Gullberg	Approved by: Melbye Group
Material:	Mild Steel	Document type: PDF	Created Date: 2025-10-30
Finish:	Galv.EN1461	Part Name: dubbel	Date of issue: / Sheet: 1/2

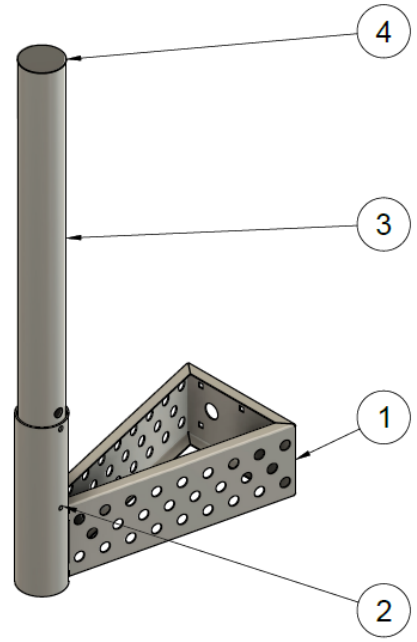
Product Drawing - 2742012

MELBYE

Parts List				
Item	Qty	Part Number	Material	Mass
1	1	Untitled	Steel	5.1 kg
2	1	Untitled	Steel	0.0 kg
3	1	Untitled	Steel	1.8 kg
4	1	Plastlock	Steel	0.2 kg







Dept.: 200	Technical reference:	Created by: Simon Gullberg	Approved by: Melbye Group
Material:	Mild Steel	Document type: PDF	Created Date: 2025-10-30
Finish:	Galv.EN1461	Part Name: enkel	Date of issue: / Sheet: 1/2

→ **Included:** 6pcs Carriage Bolts with Flange nut

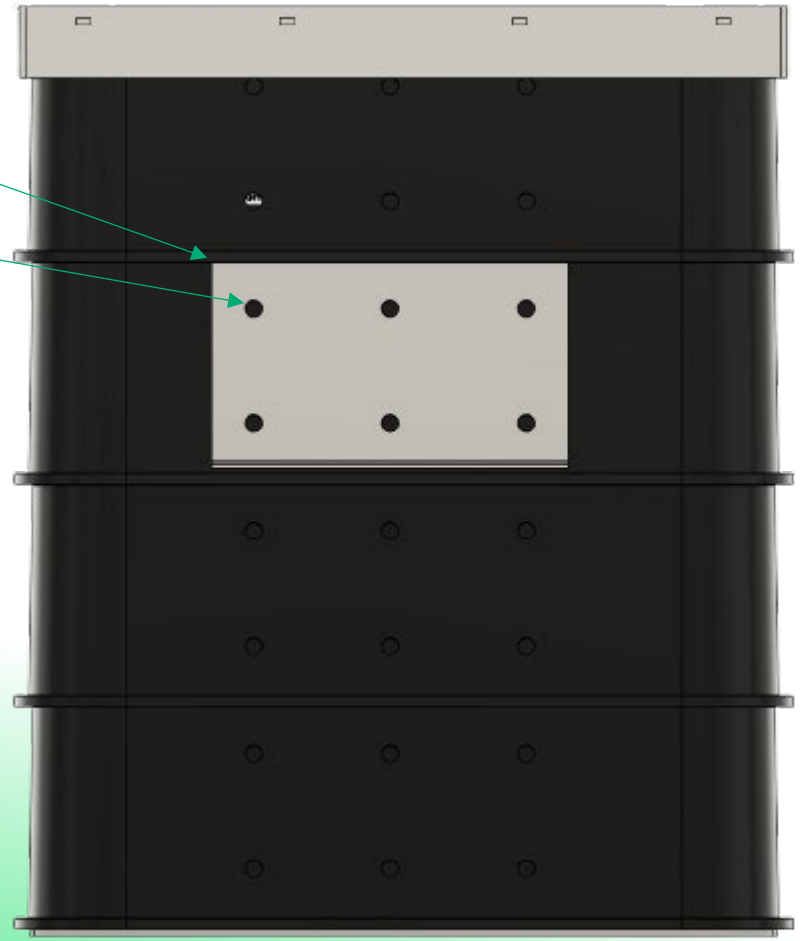
→ **On site tools:** 10mm drill bit

→ **On site tools:** 15mm socket

→ **On site tools:** Drilling machine

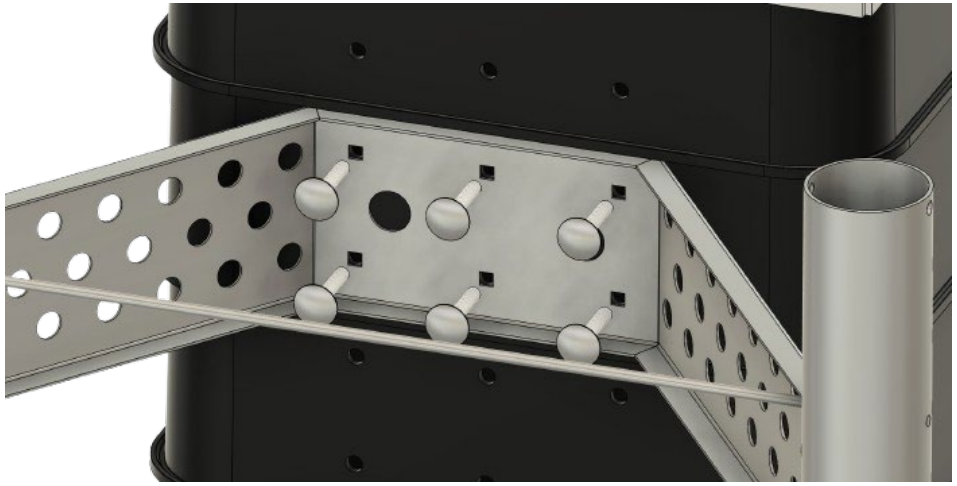
→ **Step 1:** Place drilling templet on 2nd section from top

→ **Step 2:** Use 10mm drill and make 6 holes for bolts



→ **Step 3:** Place base frame on foundation

→ **Step 4:** Insert carriage bolts, use hammer to lock them into position.

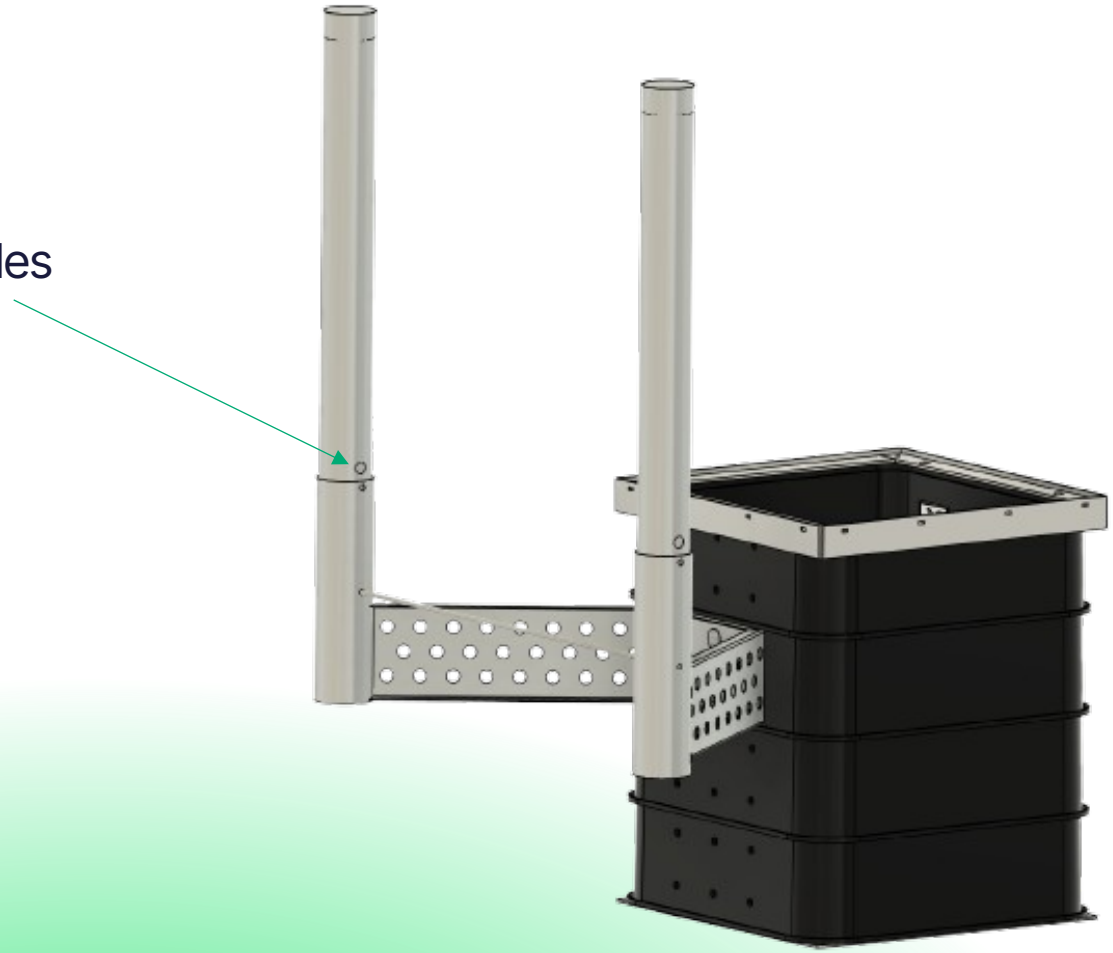


→ **Step 5:** Place drilling templet over bolts

→ **Step 6:** Attach 6 flange nuts and tighten with 10Nm

→ **Step 7:** Place collision poles in holes

→ **Step 8:** Tighten poles by inserting steel rod in holes and turn.



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Thank you for your attention