M E L
B Y
E

Simon Gullberg
Product and solution Manager

November 2025

Installation Manual

Complete guide for Power Unit 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 local standards and 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."

Compatible Power Units

✓	**Alpitronic:**	HYC1000
✓	**ABB:**	MCS1200
✓	**Ekoenergetyka:**	SAT1500
✓	**Kempower:**	C801-3
✓	**Siemens:**	MCS Flex

New steel frames can be produced upon request

Included in delivery:

- → **Included:** 10 pcs M12x100mm bolts + washer and nuts
- → **Included:** Self-tapping screws
- → **Included:** 4-6 Foundation brackets

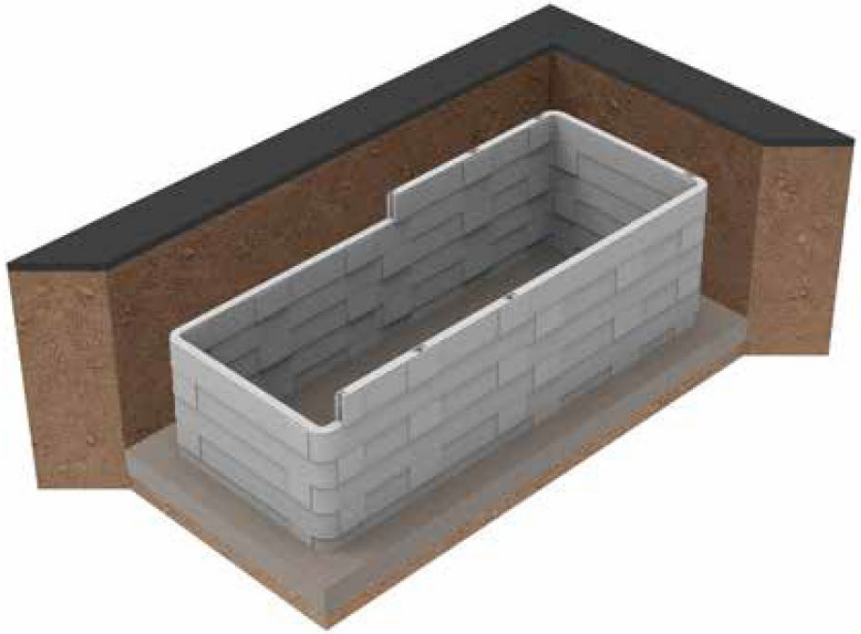
NOT included in delivery:

- → **On site:** 19 socket
- → **On site:** Ratchet or Impact wrench
- → **On site:** 6mm Allen key
- → **On site:** Bolts for mounting Power Unit
- → **On site:** Plastic/rubber hammer
- → **On site:** Excavating Equipment

→ 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 300mm of compacted 0-16 material.

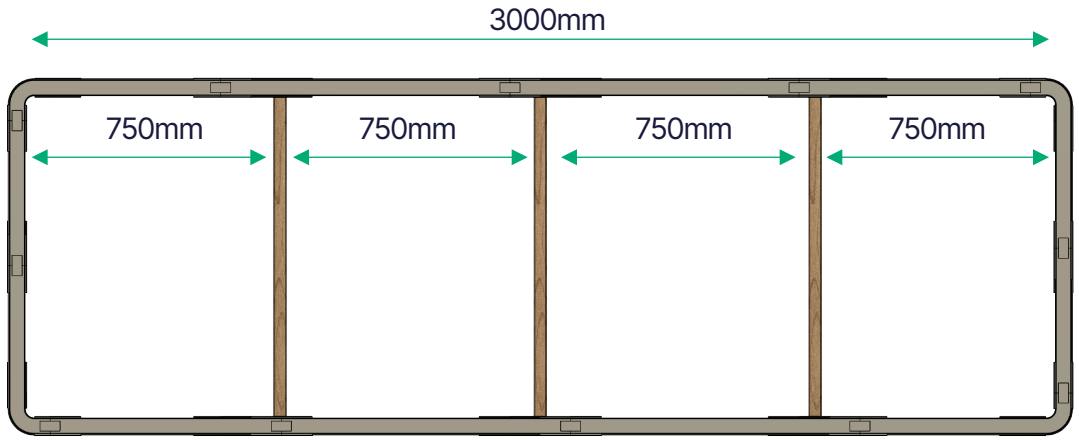
→ Backfill around the foundation evenly to lock it into position, preferably by hand. When the first 2 sections are covered compact the material using a vibrator < 100 kg. Repeat until correct ground level has been reached.

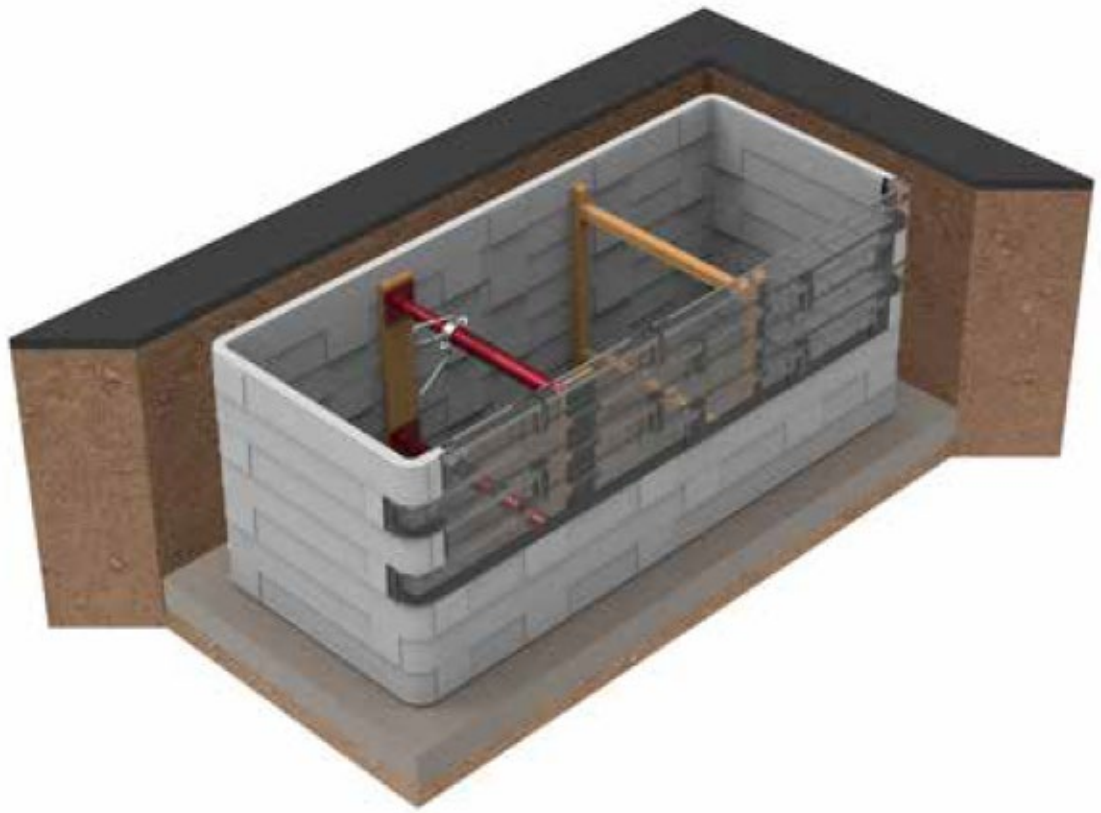
→ *If possible, install steel frame before backfilling to reinforce chamber.



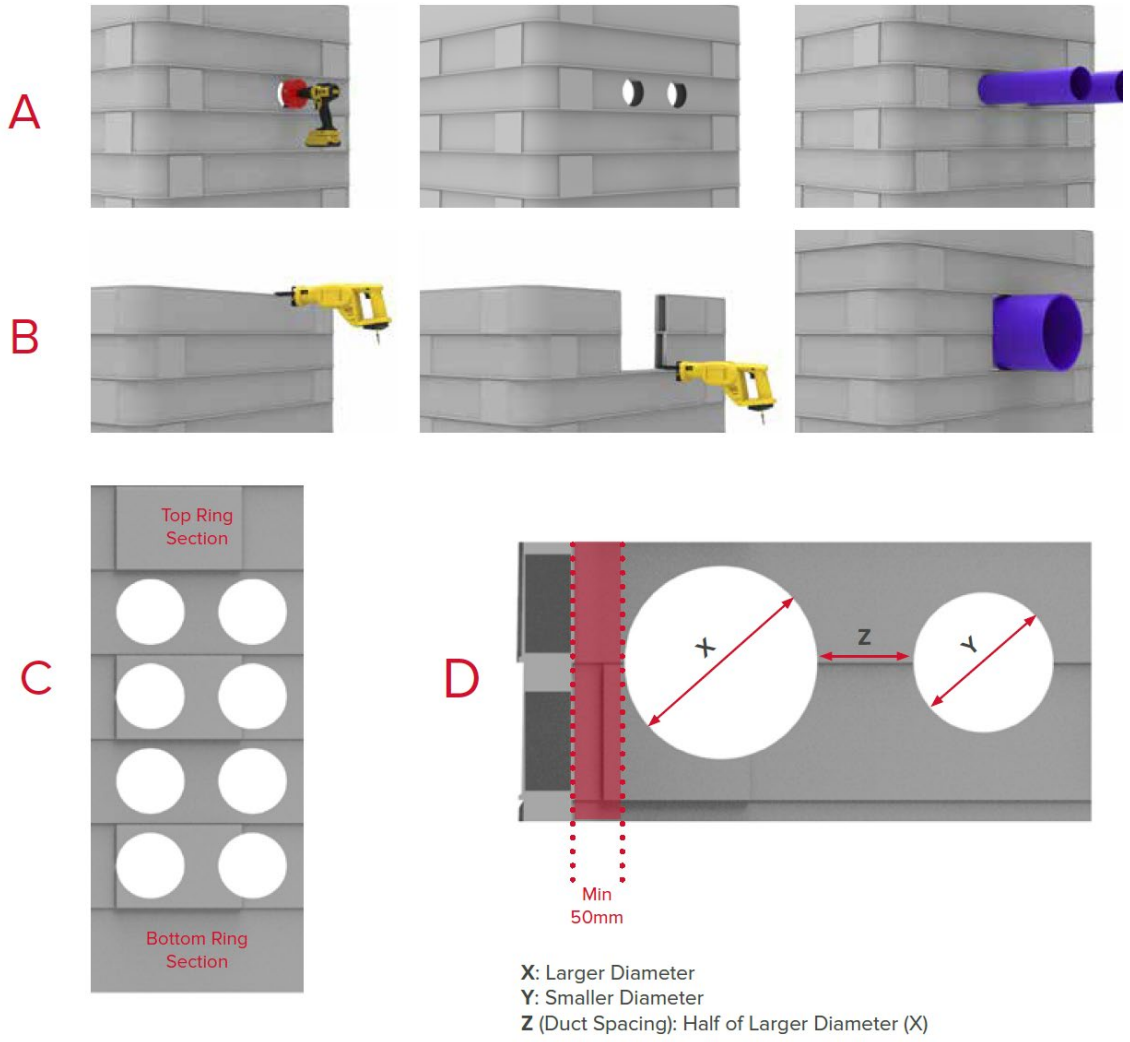
Installation Manual – Power Unit foundation

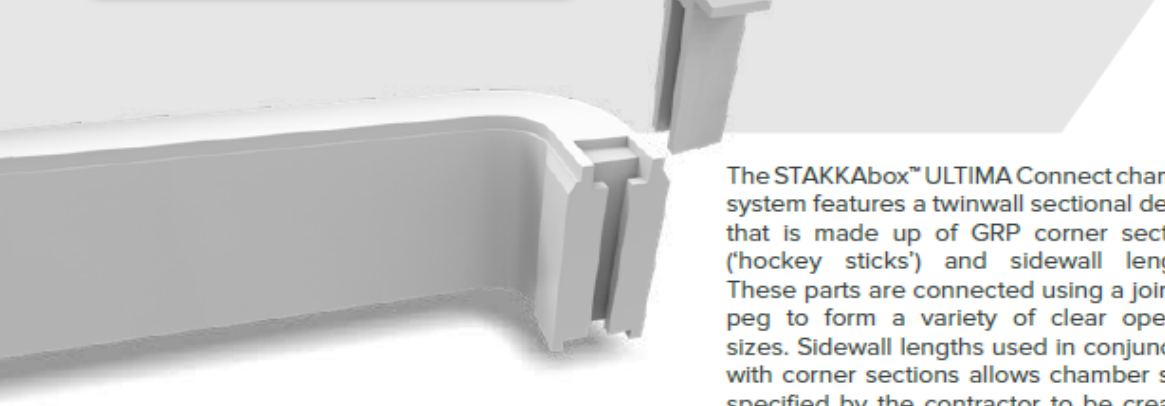
- → On chambers with more then 1500mm side wall install temporary bracing before backfilling around chamber.
- → Exampel 1: 1500mm – 1 bracing in center of chamber
- → Exampel 2: 3000mm – 4 bracings devided on lenght



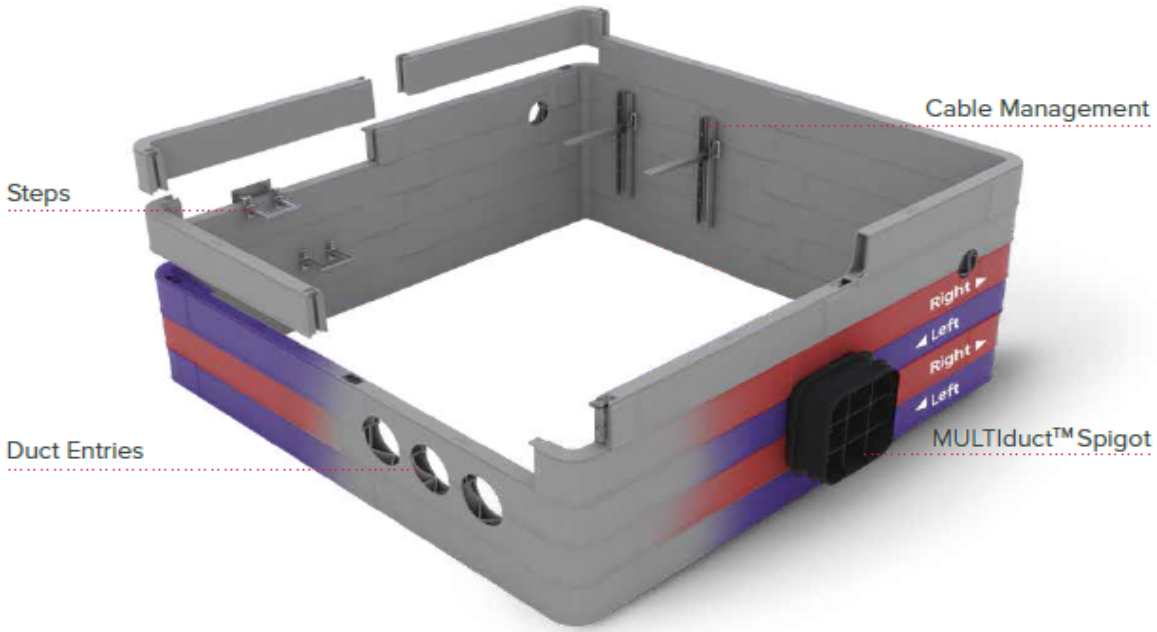


→ Mark Hole/duct entry positioning. Holes must be drilled 50mm from inside edge of chamber. Distance between holes should be half the diameter of duct entry. Avoid drilling holes in top and bottom section. Holes can be drilled in between 2 sections.



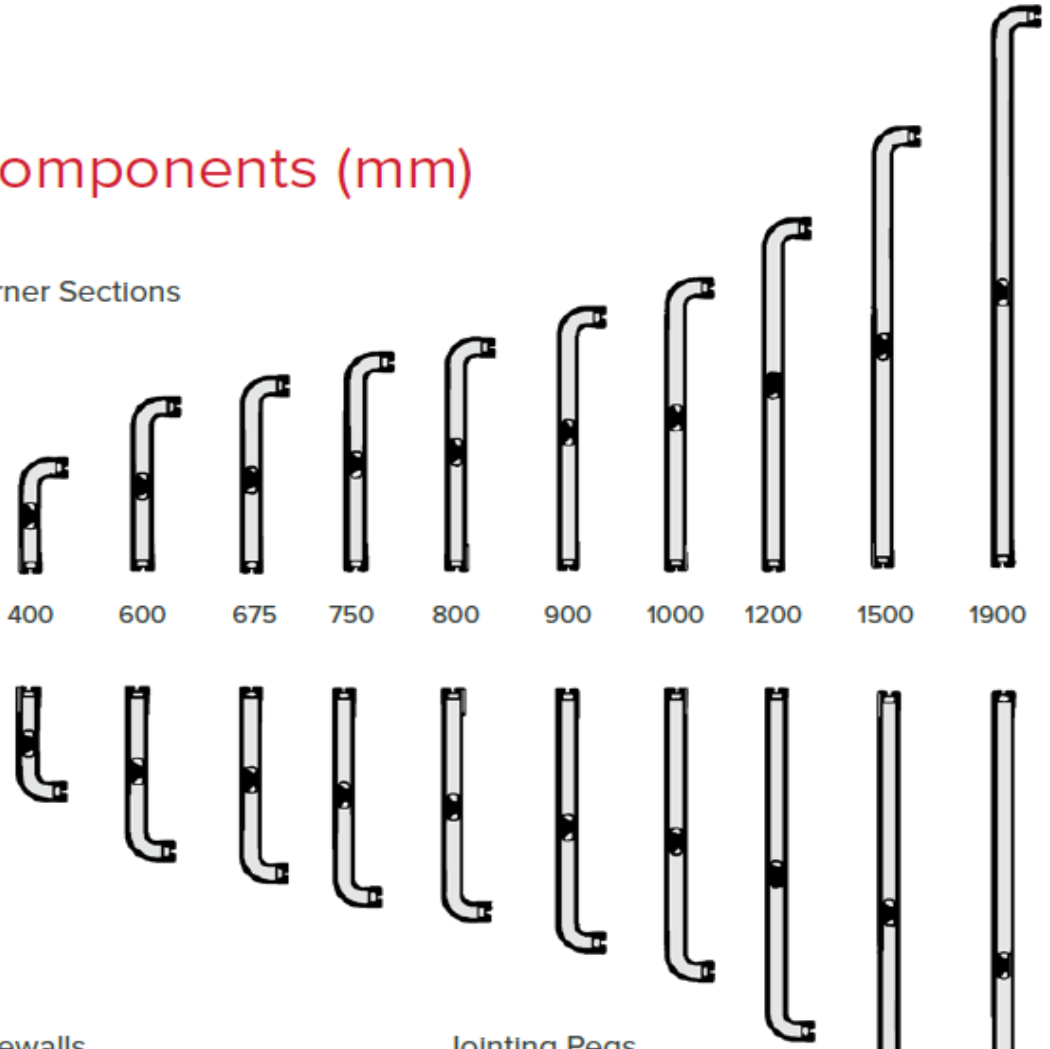


The STAKKAbox™ ULTIMA Connect chamber system features a twinwall sectional design that is made up of GRP corner sections ('hockey sticks') and sidewall lengths. These parts are connected using a jointing peg to form a variety of clear opening sizes. Sidewall lengths used in conjunction with corner sections allows chamber sizes specified by the contractor to be created. Chamber accessories are also available as shown below.

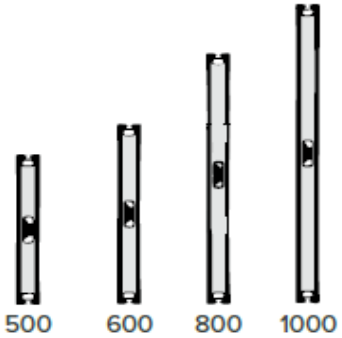


Components (mm)

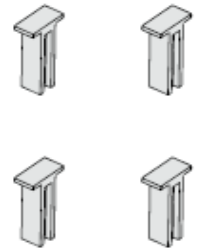
Corner Sections



Sidewalls

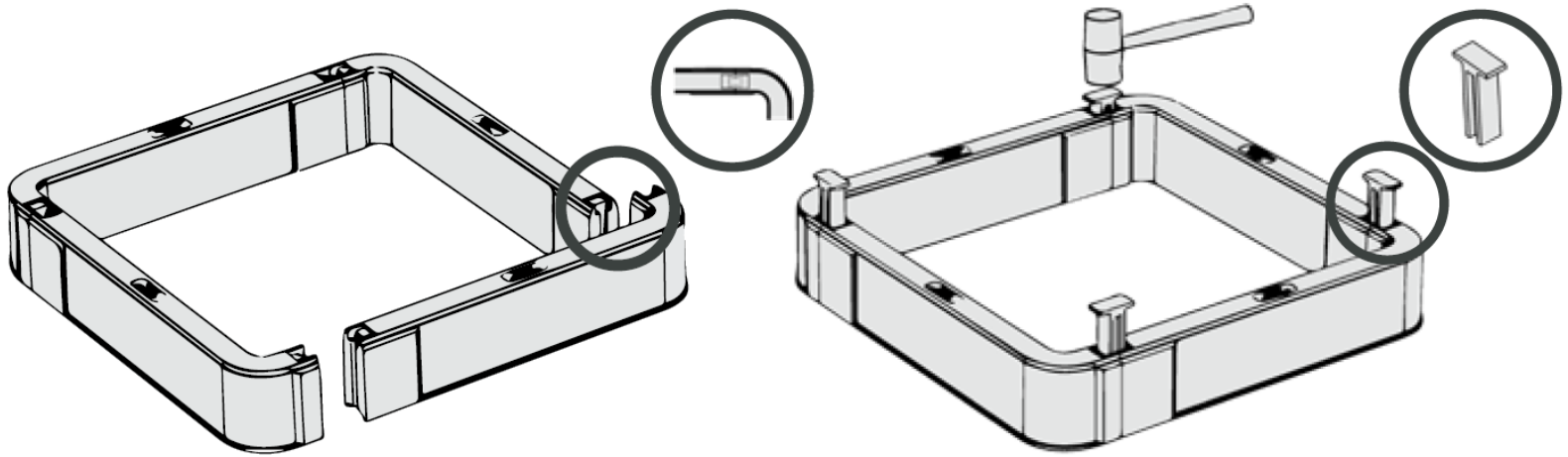


Jointing Pegs

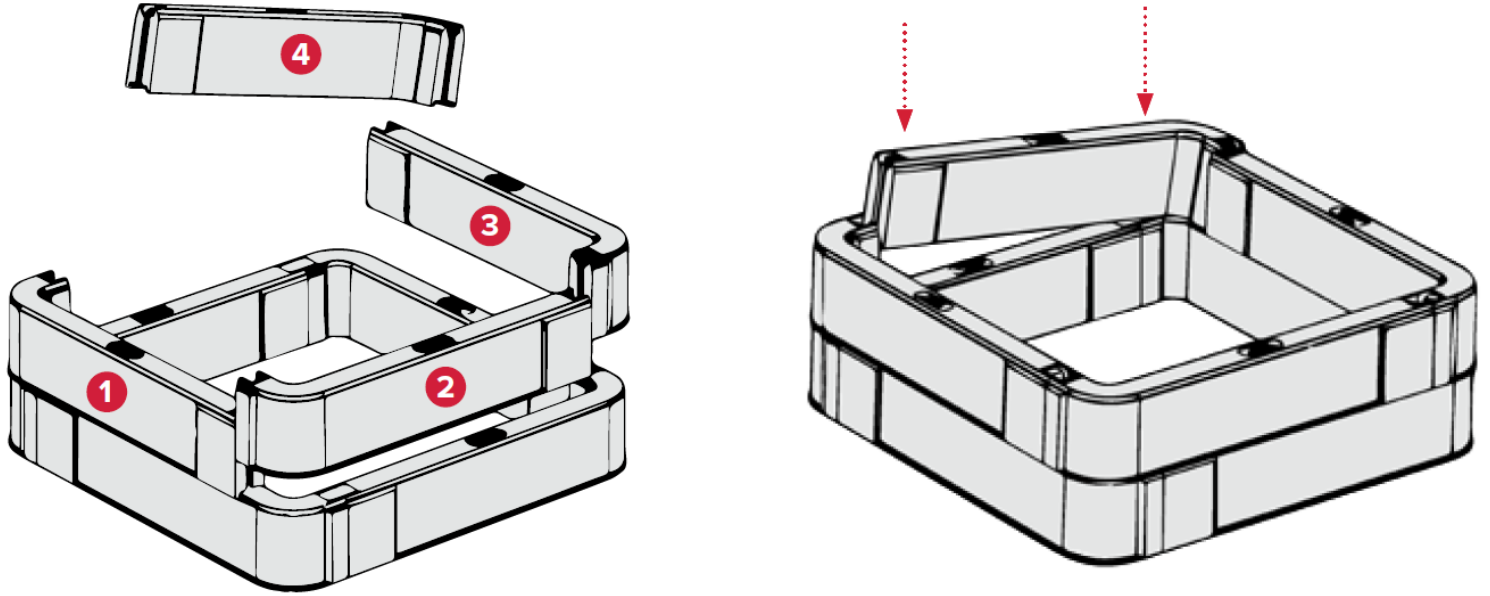


MELBYE

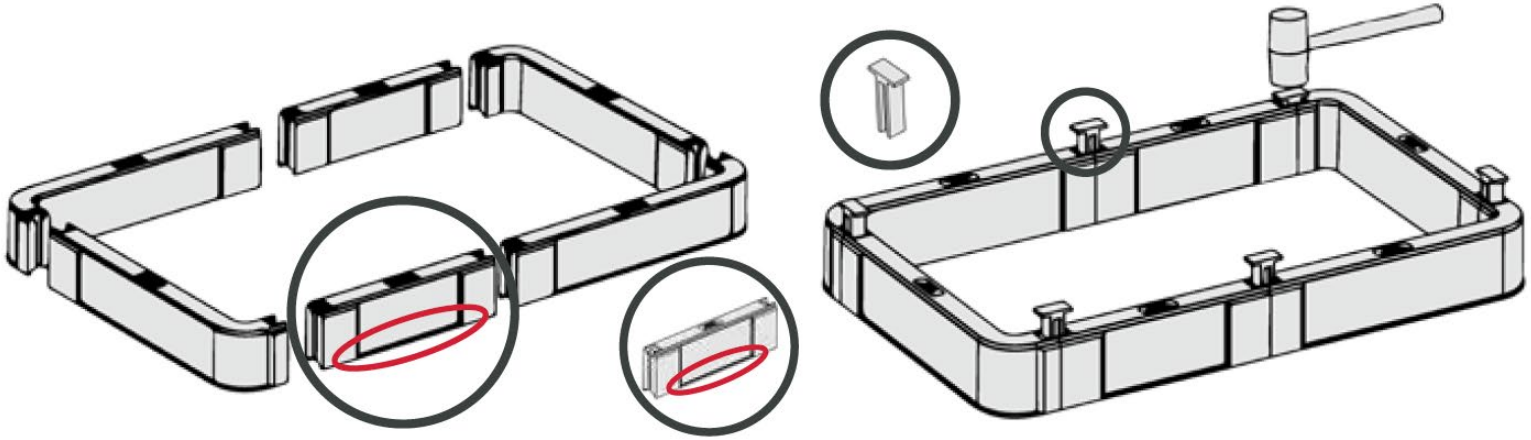
Step 1 – Arrange corner sections to match opening dimensions.
Connect sections by using jointing pegs.
Top of peg should be leveled with top of section. Partially insert all pegs before tapping.



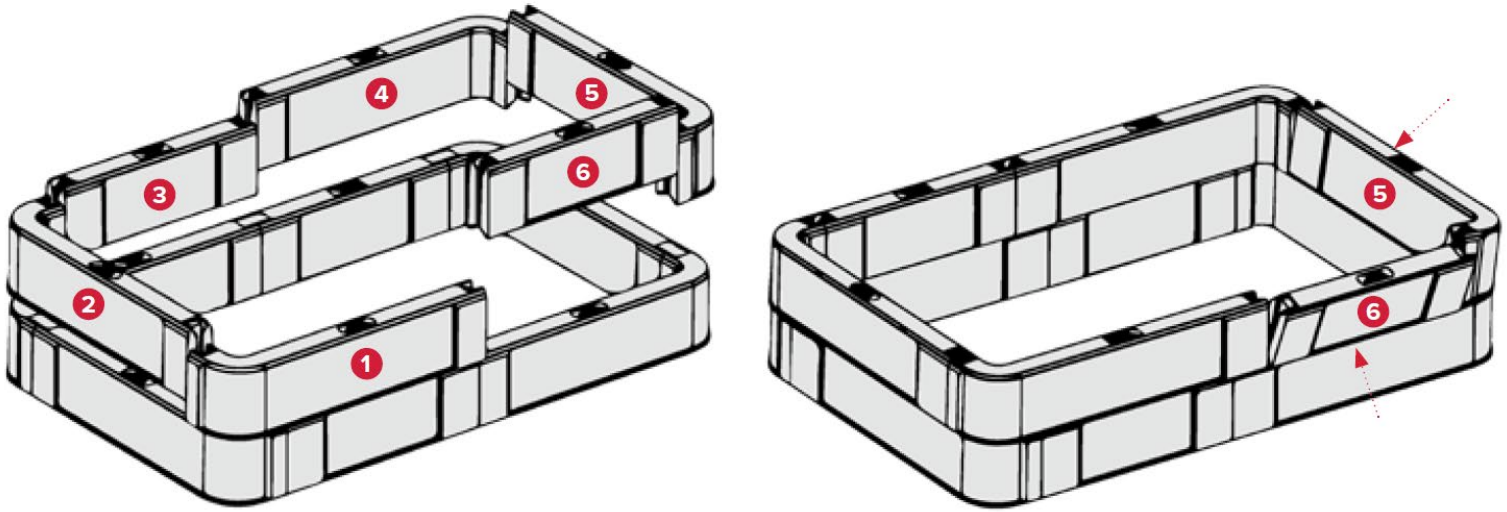
Step 2 – Alternate right and left parts as you add sections to the chamber, this provides “brick works” and is crucial for stability and strength

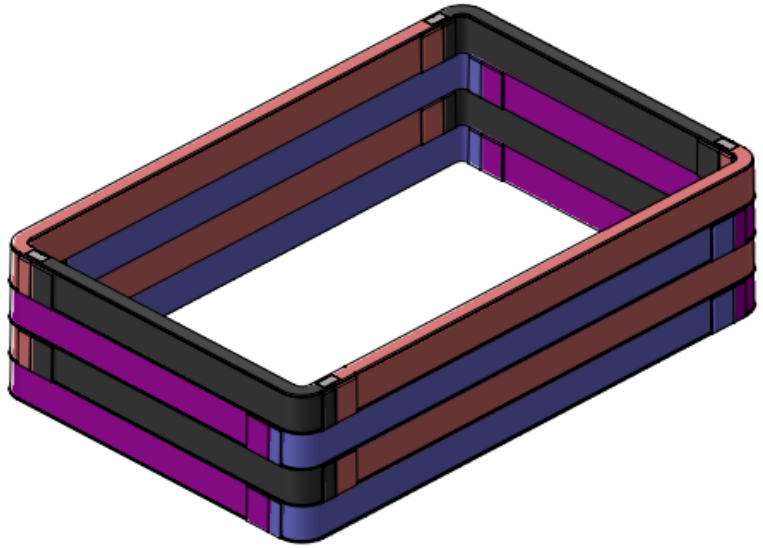


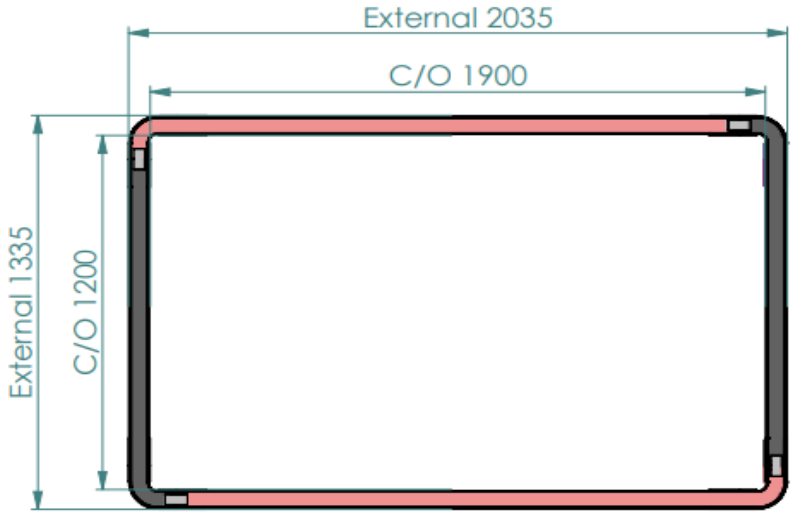
Step 1 – Arrange parts to match opening dimensions – See color coded drawing of chamber.
Connect sections by using jointing pegs.
Top of peg should be leveled with top of section. Partially insert all pegs before tapping.



Step 2 – Alternate right and left parts as you add sections to the chamber, this provides “brick works” and is crucial for stability and strength. Straight parts can be used in all sections of the chamber.

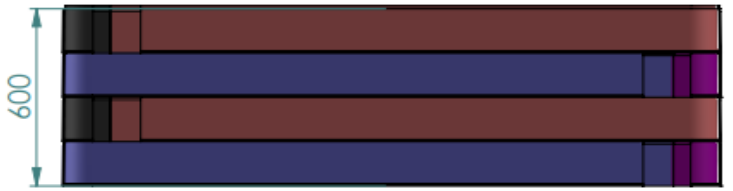




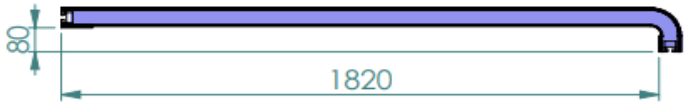


Download chamber specification at:

Fundament Power Units | Melbye

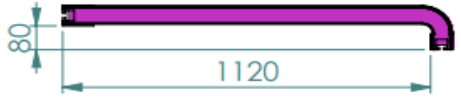


10201212



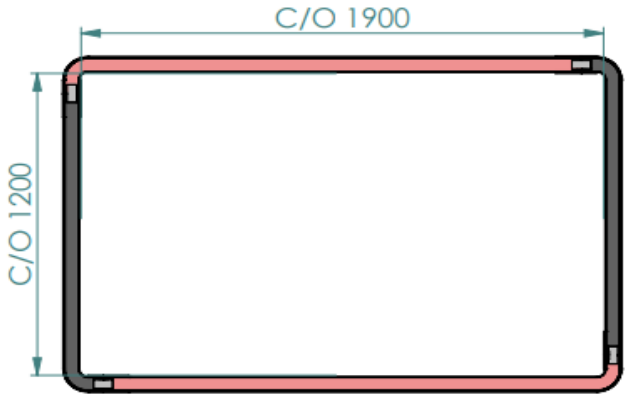
10201211

10201208

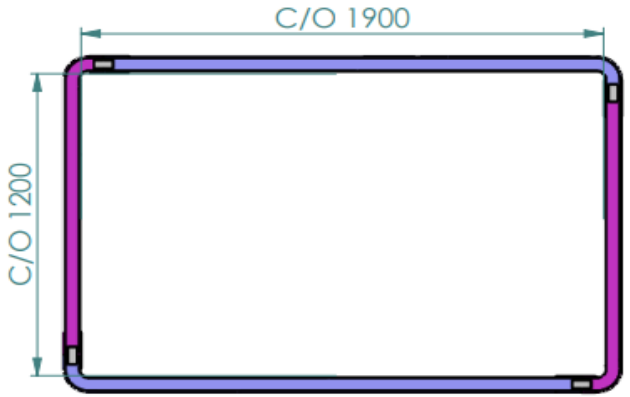


10201207

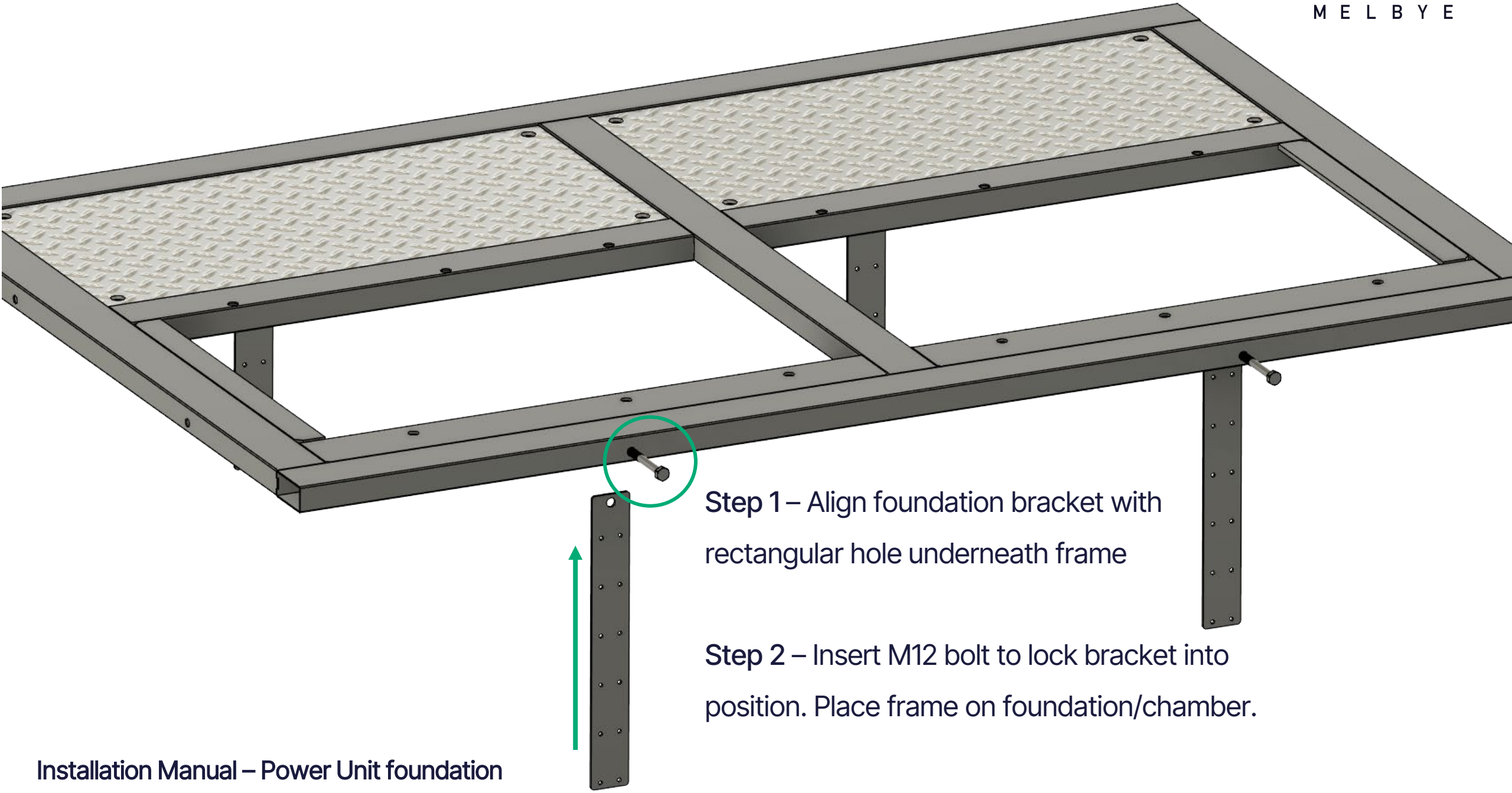
10201226



ITEM NO.	Number	DESCRIPTION	QTY.
1	10201211	CP ULT Connect HS Left - 1900mm Hockey Stick	2
2	10201207	STAKKAbox™ ULTIMA Connect Left-Hand Corner Section 1200mm	2
3	10201226	CP ULTIMA Peg FPV1 - Ultima Connect	4



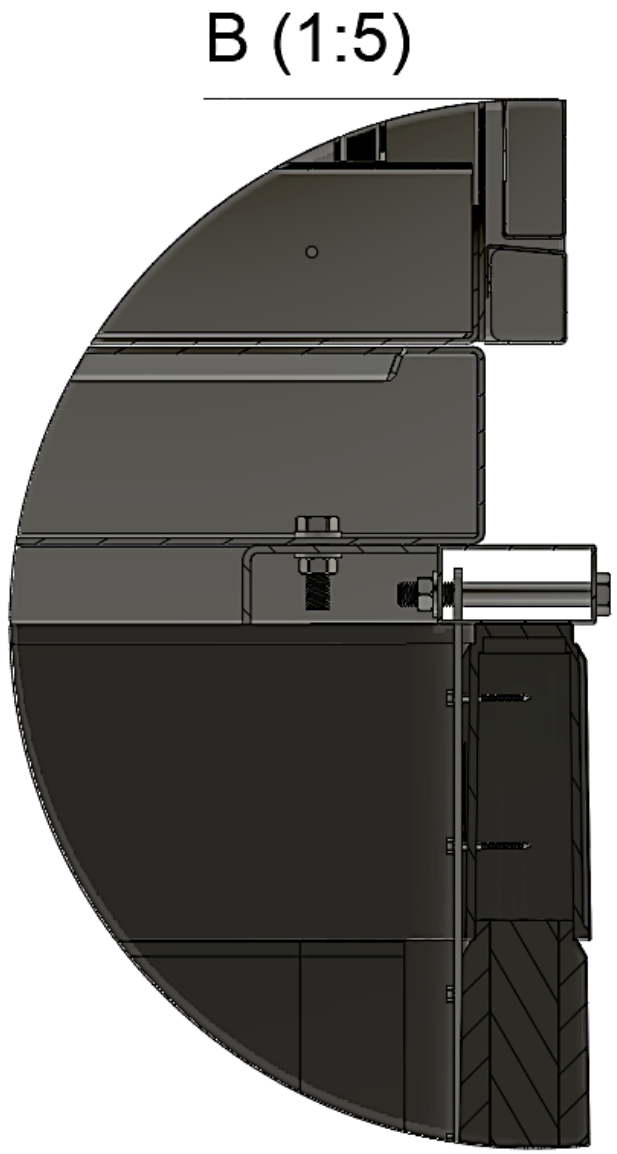
ITEM NO.	Number	DESCRIPTION	QTY.
1	10201212	CP ULT Connect HS Right - 1900mm Hockey Stick	2
2	10201208	STAKKAbox™ ULTIMA Connect Right-Hand Corner Section 1200mm	2
3	10201226	CP ULTIMA Peg FPV1 - Ultima Connect	4



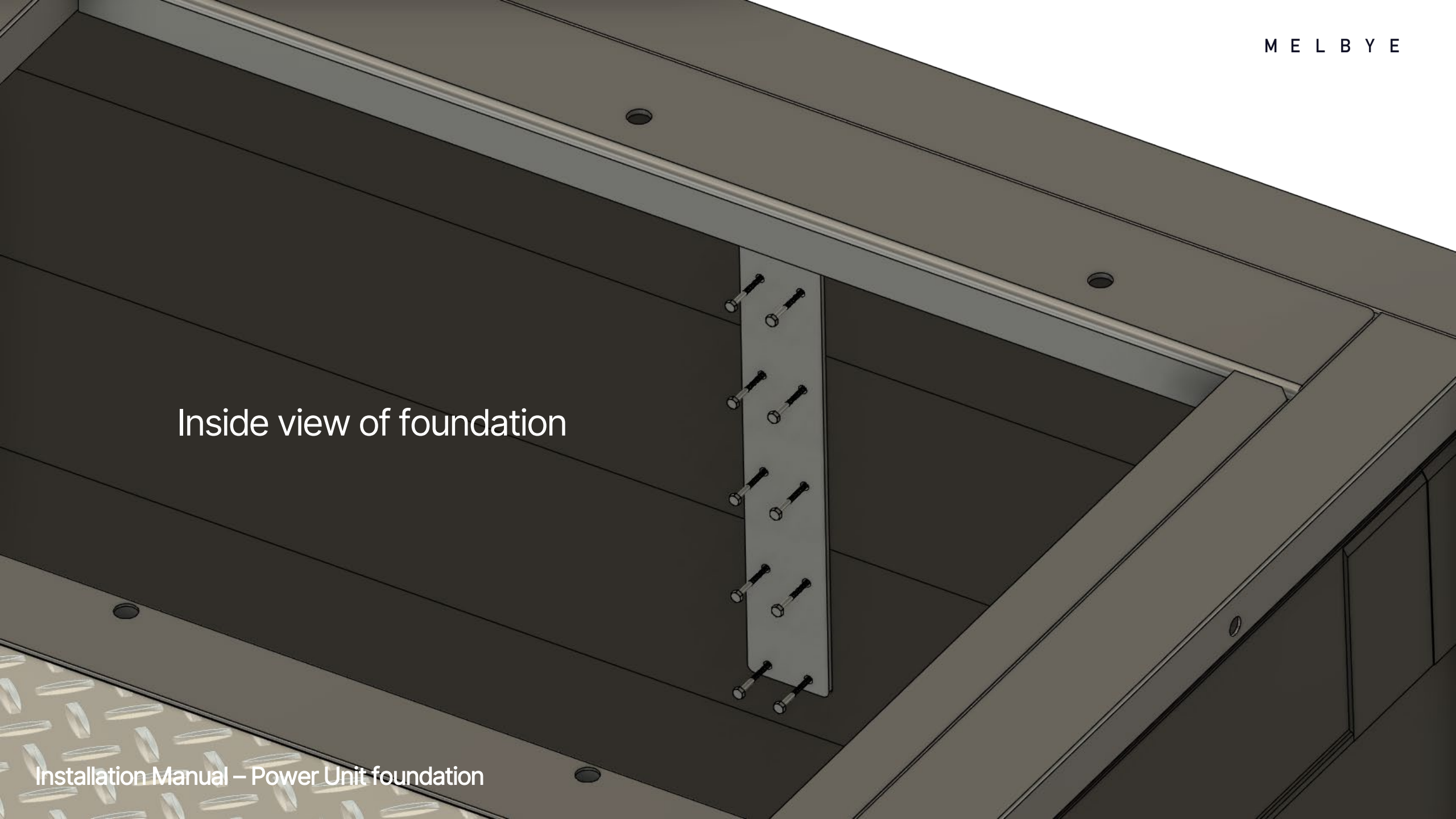
Step 1 – Align foundation bracket with rectangular hole underneath frame

Step 2 – Insert M12 bolt to lock bracket into position. Place frame on foundation/chamber.

Installation Manual – Power Unit foundation



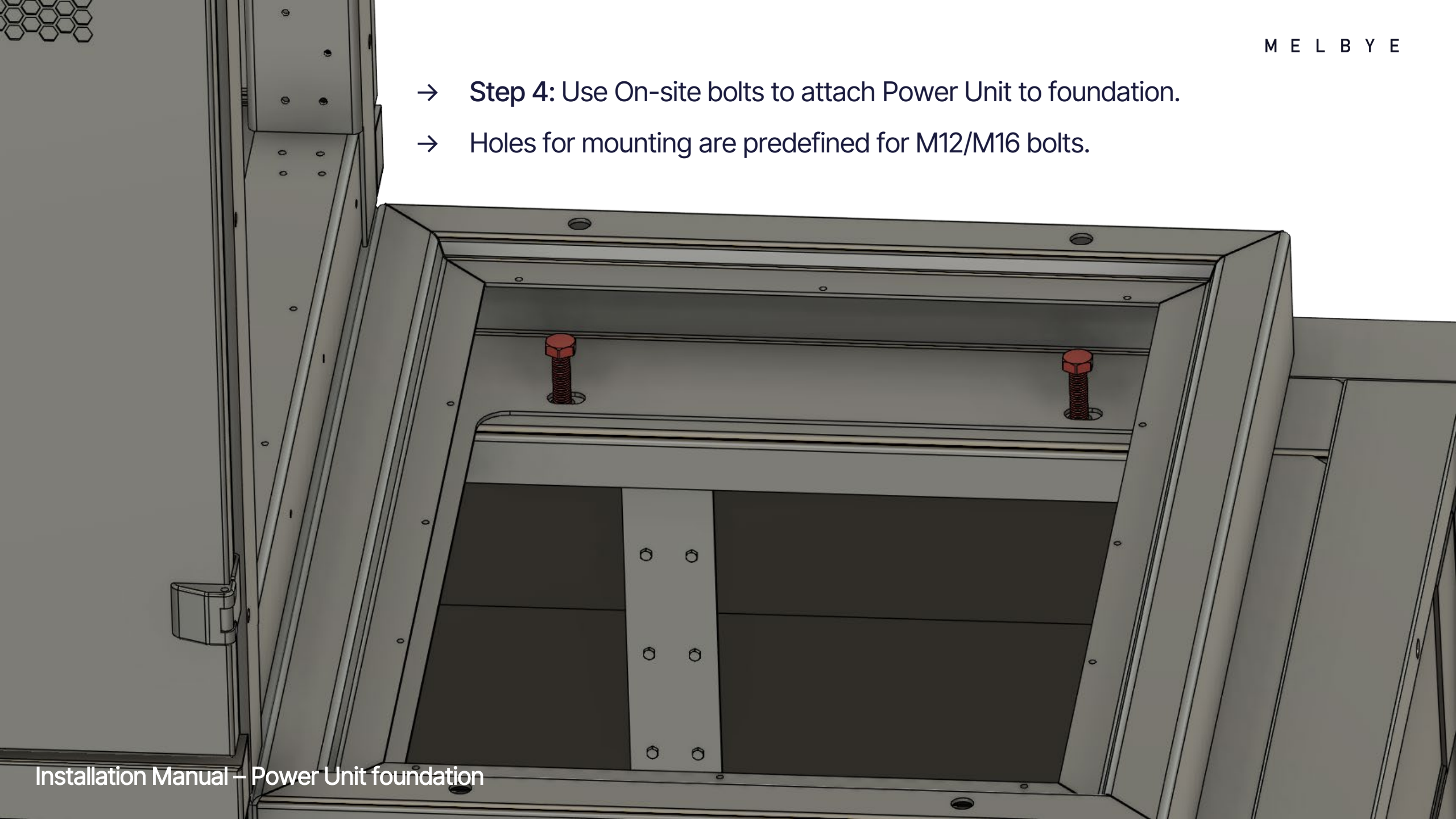
→ **Step 3:** Use self-tapping screws to secure steel frame to foundation



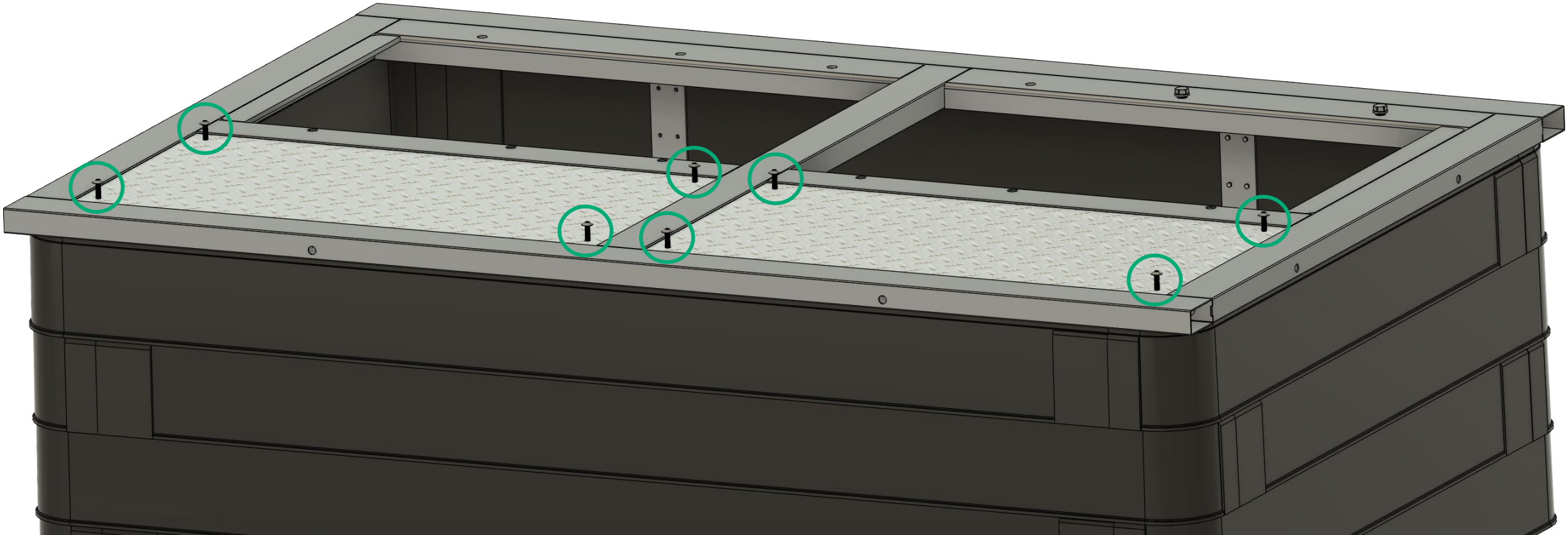
Inside view of foundation

→ **Step 4:** Use On-site bolts to attach Power Unit to foundation.

→ Holes for mounting are predefined for M12/M16 bolts.

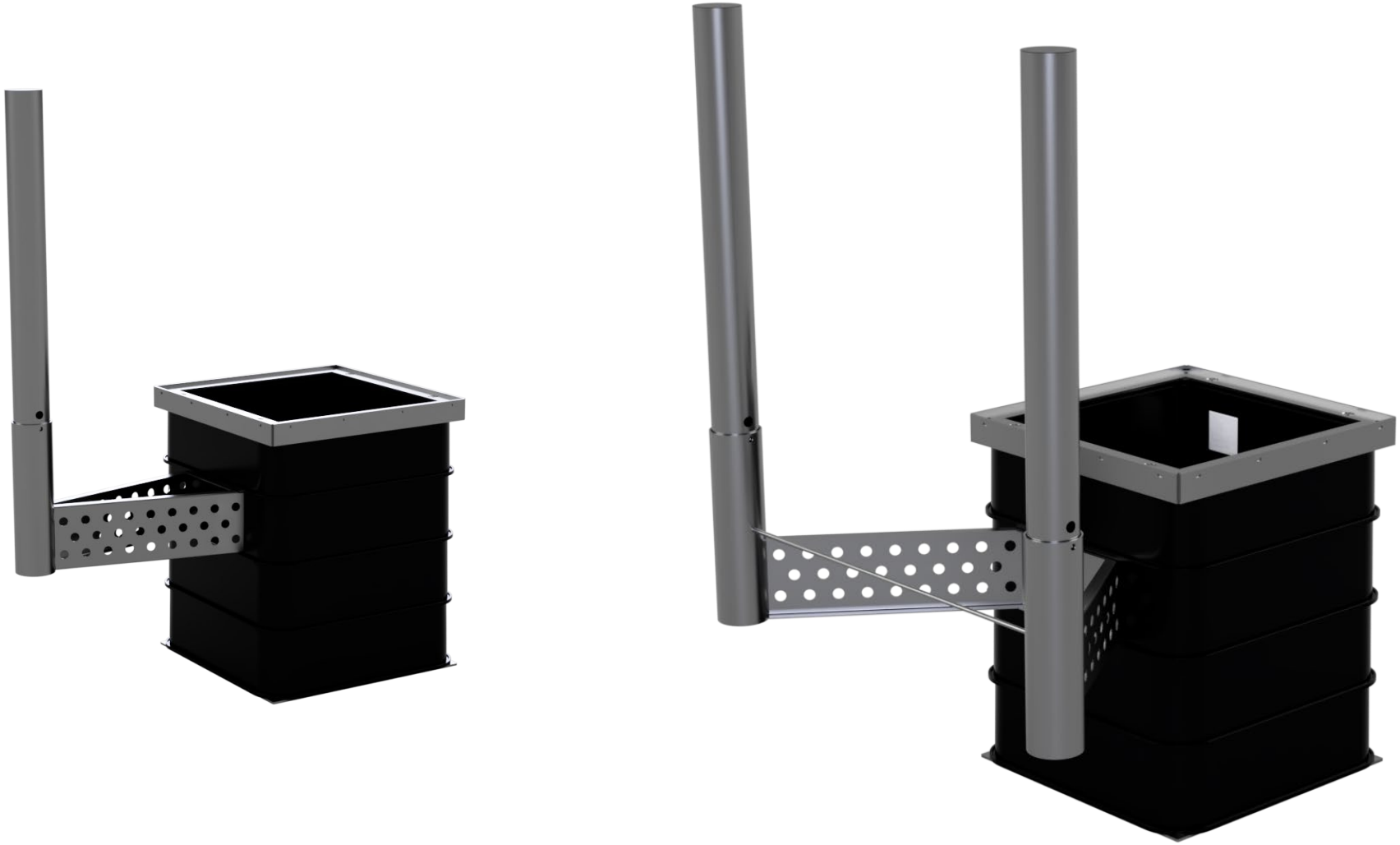


→ **Step 5:** Inspection hatches are delivered with pre mounted button head M8x30mm self-tapping bolts.



Accessories

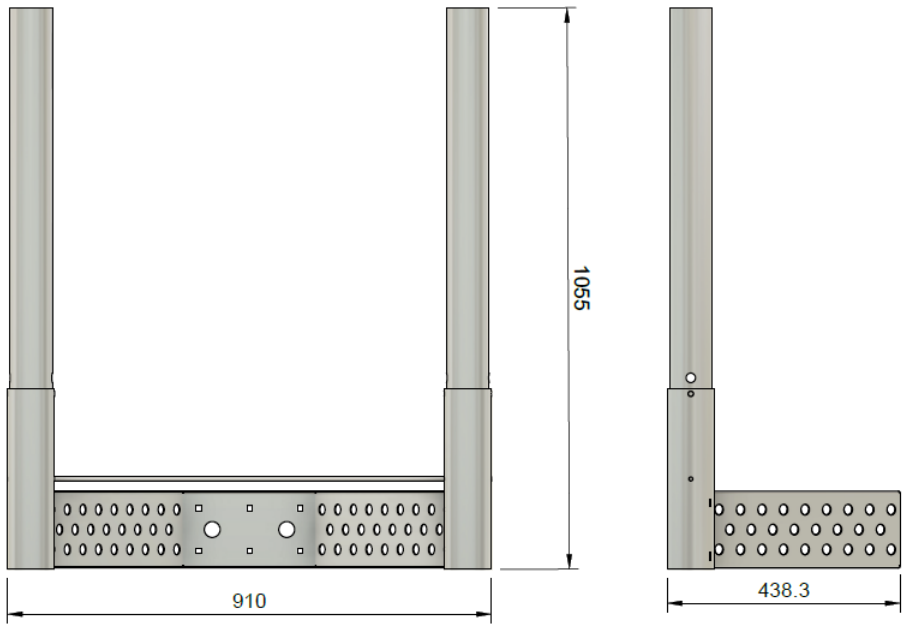
- *Collision protection Double: 2742011*
- *Collision protection Single: 2742012*
- *Collision protection spare pole: 2742013*
- *M12 Bolt kit EV-Charger: 126103*
- *M16 Bolt kit EV-Charger: 126104*
- *Button Head bolt: 126105*
- *M12 Press Nut: 126345*
- *M16 Press Nut: 126344*

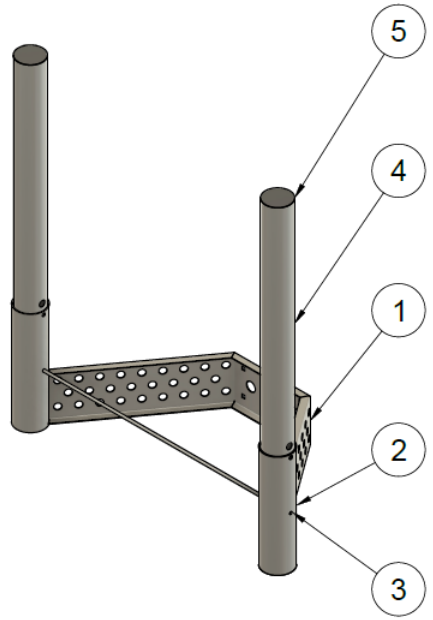


Product Drawing – 2742011

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



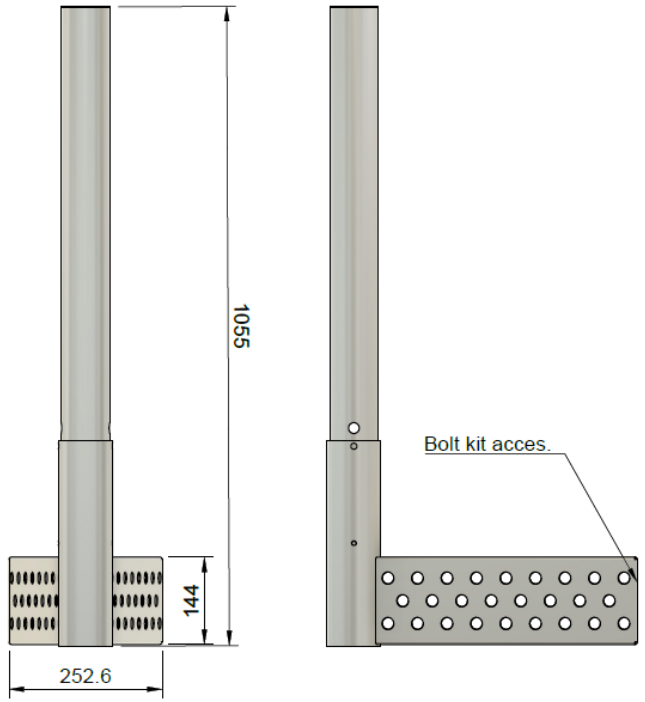


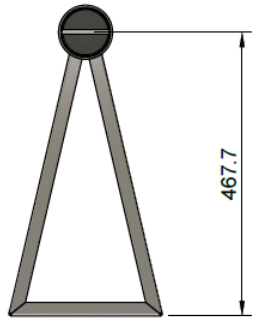
Dept.: 200	Technical reference:	Created by: Simon Gullberg	Approved by: Melbye Group
Material:	Mild Steel	Document type: PDF	Created Date: 2025-10-30
Finish:	Galv.EN1461	Part Name: dubbel	Date of issue: / Sheet: 1/2

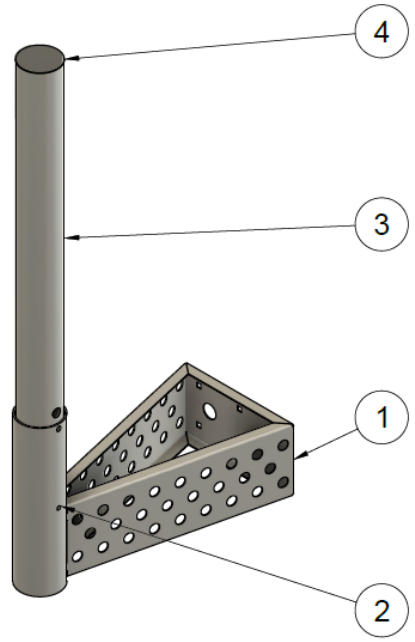
Product Drawing - 2742012

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





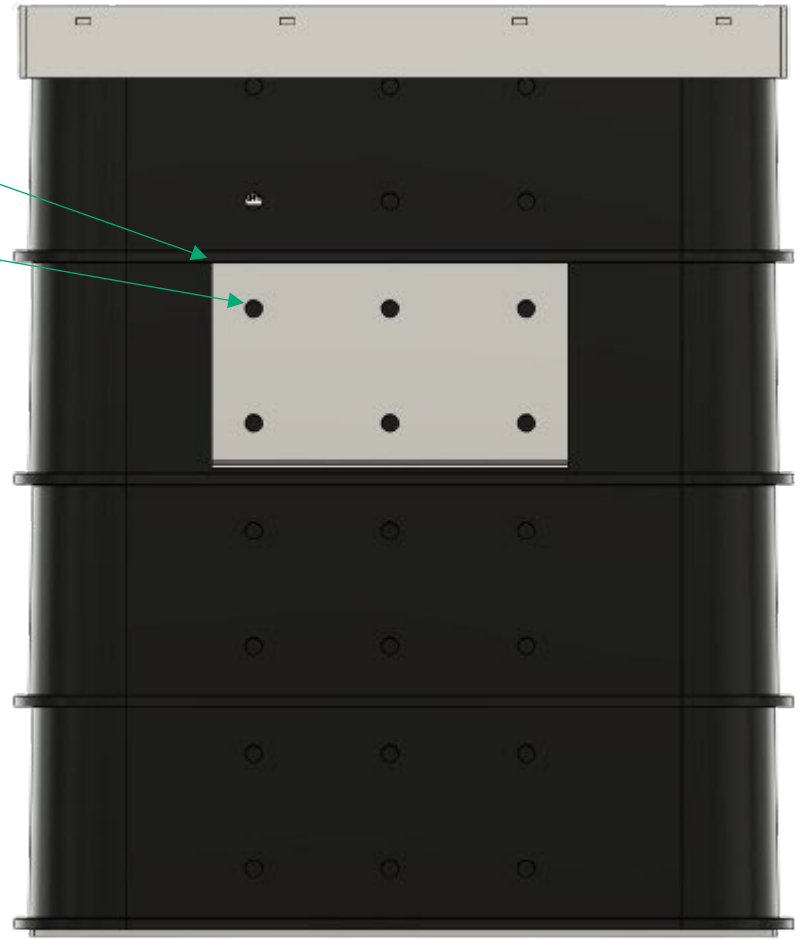


Dept.: 200	Technical reference:	Created by: Simon Gullberg	Approved by: Melbye Group
Material:	Mild Steel	Document type: PDF	Created Date: 2025-10-30
Finish:	Galv.EN1461	Part Name: enkel	Date of issue: / Sheet: 1/2

- → **Included:** 6pcs Carriage Bolts with Flange nut
- → **On site tools:** 10mm drill bit
- → **On site tools:** 15mm socket
- → **On site tools:** Drilling machine

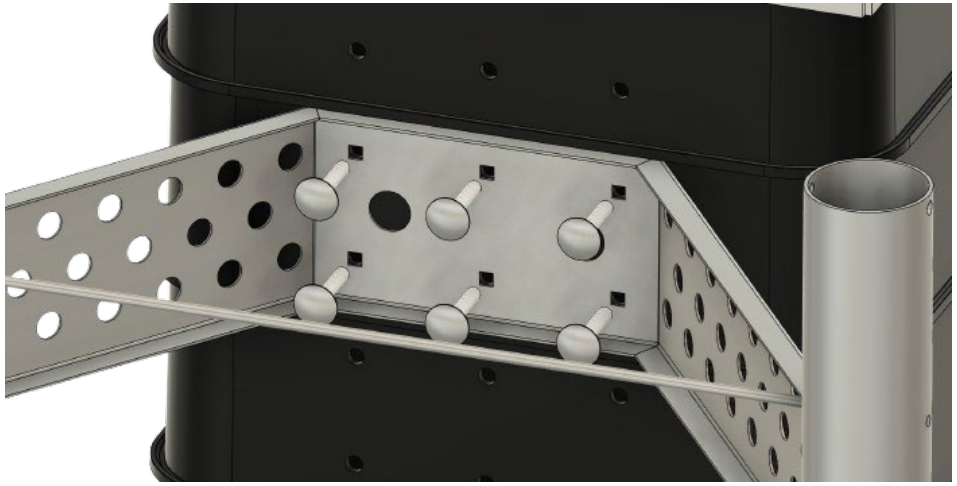
→ **Step 1:** Place drilling templet on 2nd section from top

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



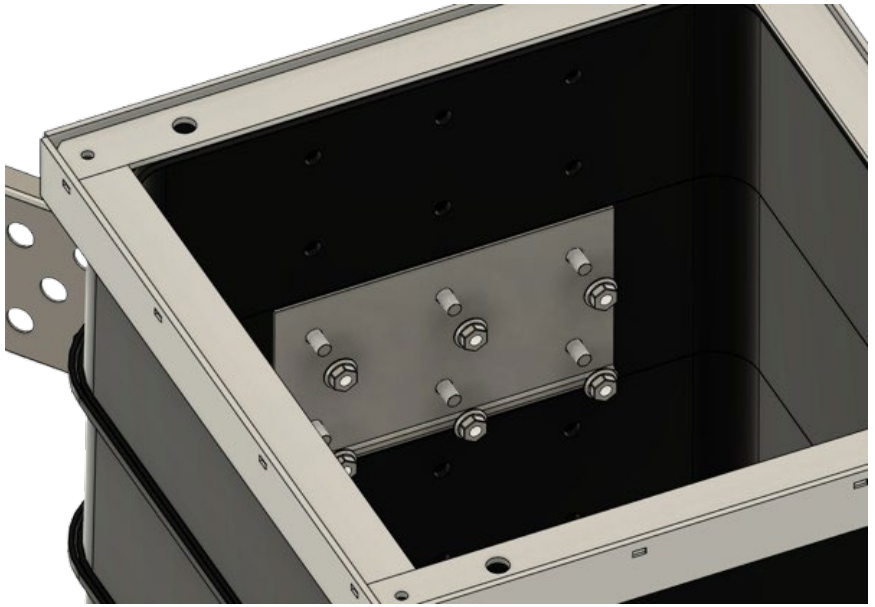
→ **Step 3:** Place base frame on foundation

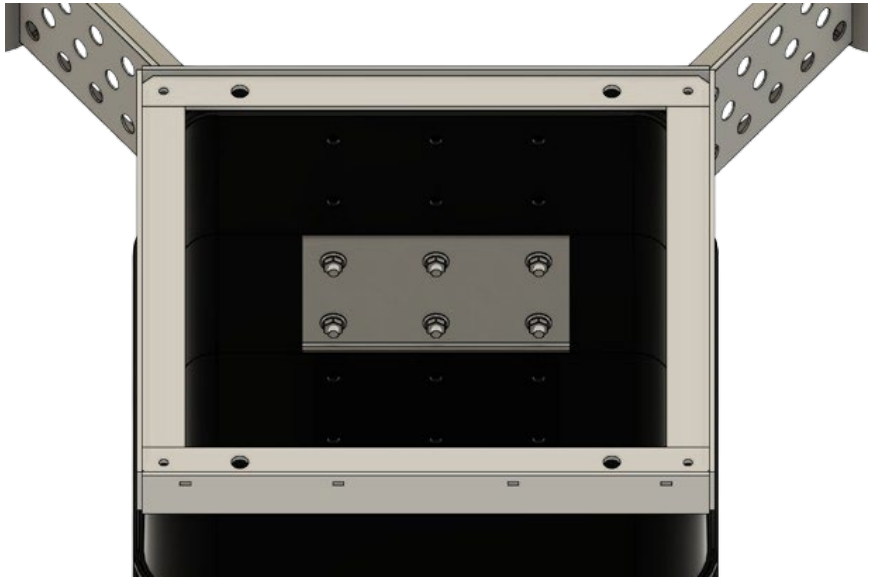
→ **Step 4:** Insert carriage bolts, use hammer to lock them into position.



→ **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.

MELBYE

Thank you for your attention