

ASSEMBLY MANUAL

Structure 72EC1

Pitched-roof mounting. 1 panel aH72

V 6.0


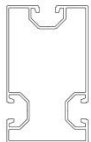
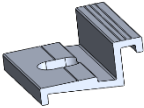


13/01/2022

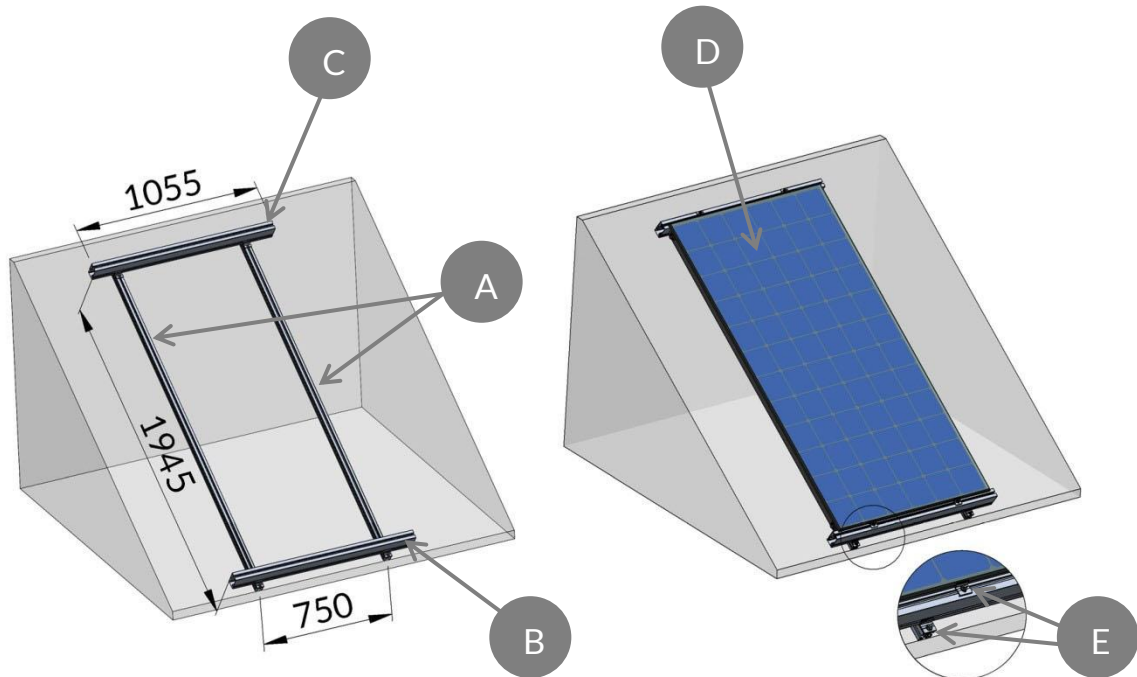
Abora Energy SL reserves its right to make any changes it deems appropriate to the contents of this manual
Abora Energy SL will send with each product the instruction manual with the latest updates

Content

1	Structure elements.....	2
2	Step 1: Assembly of vertical profiles	3
3	Step 2: Mounting the upper and lower panel rails.....	4
4	Step 3: Placing and attaching the panel to the structure.....	5

1 Structure elements

Element	Detail	Description	Length (mm)	Units included in the Mounting Kit
1		Vertical profile PROFILE 40x40 mm	2.110	2
2		PROFILE 50x85 mm	1.055	2
3		CLAMP for anchoring panels to 50x85 mm rails and for joining rails to vertical profiles	40	13
4		M8X20 HAMMER HEAD screw	-	13
5		FLANGE NUT M8 DIN 6923	-	13



- | | | | |
|----------|------------------|----------|-------------------|
| A | Vertical profile | D | Hybrid panel aH72 |
| B | Lower panel rail | E | Mounting clamp |
| C | Upper panel rail | | |

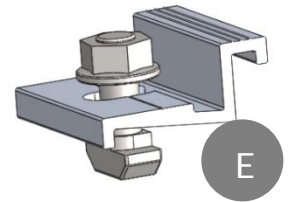
2 Step 1: Assembly of vertical profiles

- Install the VERTICAL PROFILES (A), profiles of 40x40, on the pitched roof after installation of the roof hooks or the system provided on site for safe and sufficient anchoring between the building structure and the panel support structure.
- **IMPORTANT: 750 mm separation** between axes of vertical profiles (A) for structure of 1 hybrid panel aH72 on a row (72EC1).

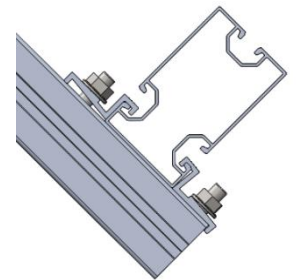


3 Step 2: Mounting the upper and lower panel rails

- Pre-assemble the Mounting clamps (E) with CLAMPS (element 3), M8x20 HAMMER HEAD screws (element 4) and M8 DIN6923 flange nuts (element 5), as shown in the figure.

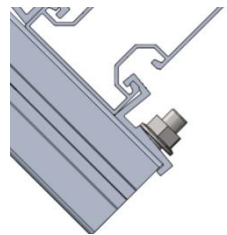


- Place the LOWER PANEL RAIL (B) on the VERTICAL PROFILES (A) and anchor it using two pre-assembled mounting clamps, as shown in the figure.

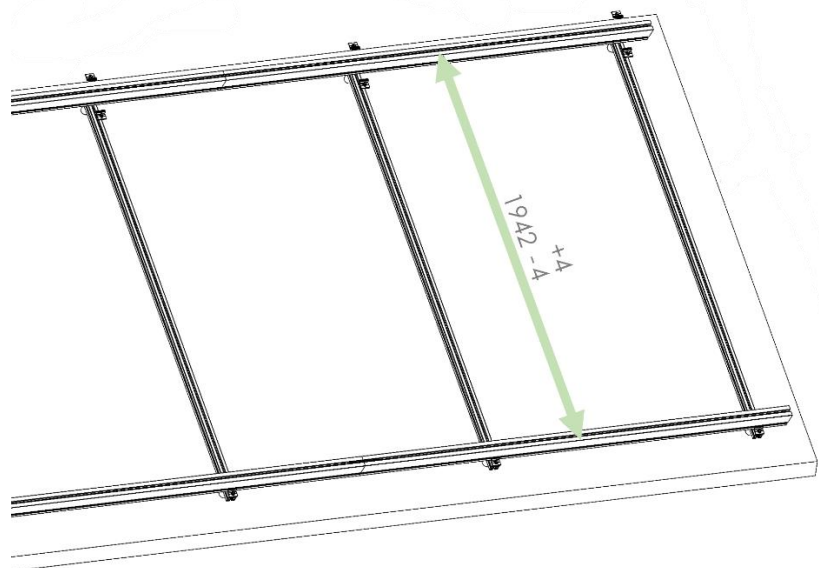
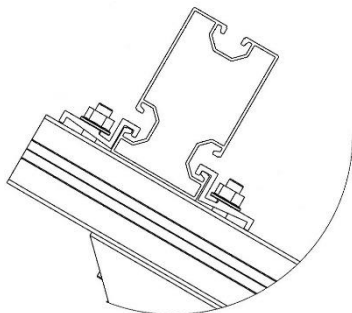


- **IMPORTANT:** The lower clamp must be positioned **EXACTLY** on the edge of the vertical profile (A), as shown in the figure.

This position sets the gap between the upper and lower panel rails required to properly install the panel later.

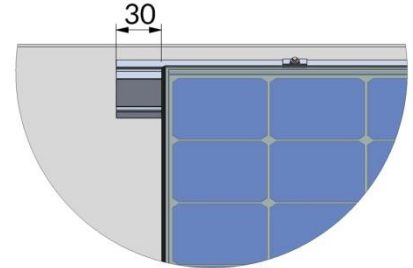


- Presentar la **GUIA DE PANEL SUPERIOR (C)** sobre los **PÓRTICOS (A)** y anclarla al pórtico mediante la utilización de dos grapas de unión pre-montadas previamente, **a una DISTANCIA ENTRE GUÍAS DE 1.942 mm (+/-4).**



4 Step 3: Placing and attaching the panel to the structure

- Install the hybrid panel on the structure starting from one of the ends leaving a **30 mm** gap between the end of the PANEL RAIL (B or C) and the beginning of the PANEL (D).



- Install 4 MOUNTING CLAMPS (E) for the panel to anchor it to the structure. Install 2 Clamps on the upper panel rail and 2 Clamps on the lower panel rail. They will be positioned **200 mm** from the end of the panel as shown in the figure.

