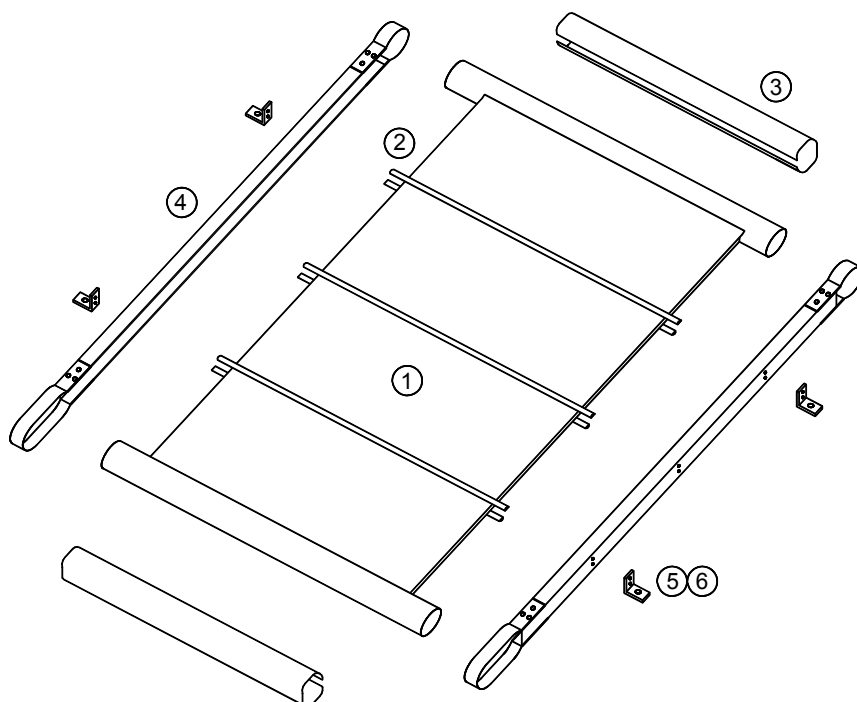


## ALUMINIUM FRAME KITS

Suncell solar panels are supplied in kit form and it is necessary to assemble the aluminium frame around the polypropylene (black plastic) panel before commencing the installation.



2 METRE SUNCELL PANEL

ITEM	DESCRIPTION	PART NO	QTY PER KIT	
			2 METRE	3 METRE
1	SUNCELL PANEL	2 METRE	1	
		3 METRE		1
2	TIE ROD	SC.030.FTR	6	8
3	HEADER PIPE SUPPORT	SC.030.FHS	2	2
4	SIDE SUPPORT ASSEMBLY	2 METRE	2	
		3 METRE		2
5	ANGLE BRACKET	SC.543.FAB	4	4
6	SELF TAPPING SCREWS	SC.198.FTS	12	16

Before starting the assembly of the panels and frame kits lay the panels and frame components on a suitable bench or on the ground.

Ensure all items are protected from damage by placing them on protective material such as cardboard.

Unwrap the frame kits (brackets and screws are packed in a plastic bag and located within the expansion loop of the side channel).

You will need a Phillips screwdriver and some Vaseline is useful to ease entry of the screws into the tie rods.

Start assembly by sliding the header supports along and over the panel headers.

Select a side channel, tie rods, angle brackets and screws. Assemble around one side of a panel and secure the side channel by placing flexible connectors (or one connector and an end cap) over the top and bottom header. Secure the connector /end cap with a jubilee clip.

Place a side channel on the other side of the panel. Using the screws connect the tie rods and brackets to this side channel.

The panels are joined together to form banks of panels by using flexible connectors and jubilee clips



## **ASSEMBLING A BANK OF PANELS**

Starting from one end, the first panel is fixed in position and the flexible connectors (with their jubilee clips) are then slid on to the top and bottom header pipes.

The header pipes of the next panel are then located into the top and bottom flexible connectors and the panel fixed in position.

The jubilee clips are tightened and the procedure repeated.

On no account must solvent welded or heat fused joints be used to join the panels together or to connect the flow and return pipework to the panels. Flexible connectors must be used for this purpose

The angle brackets are used to secure the panels to a galvanized steel ground or flat roof support frame or wooden bearers.

For more information see Suncell Design and Installation Guide Sections Pitched Roof, Ground Support and Flat Roof Kits Installation.