

## KT-PSE



### ASSESSMENTS

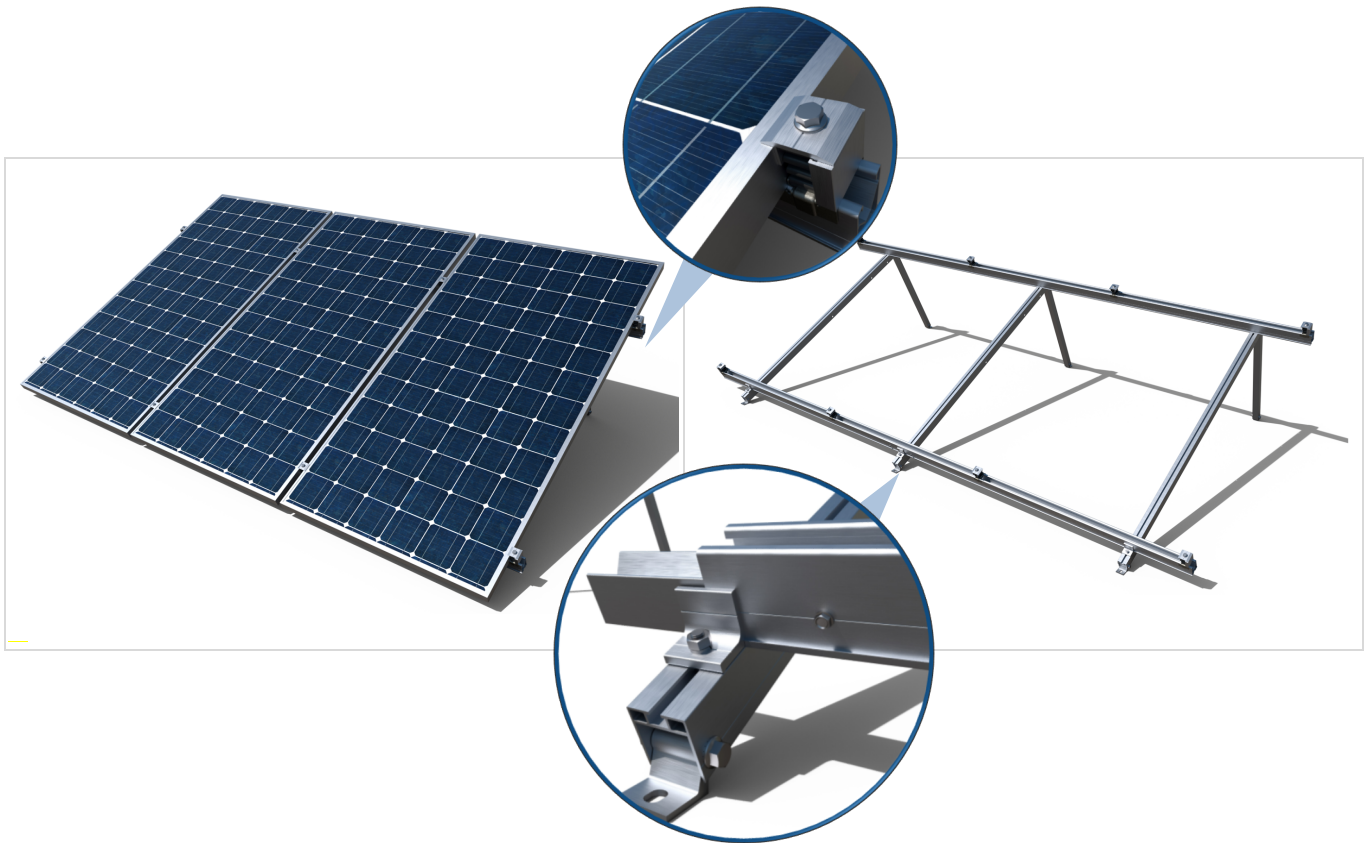


### PRODUCT DESCRIPTION

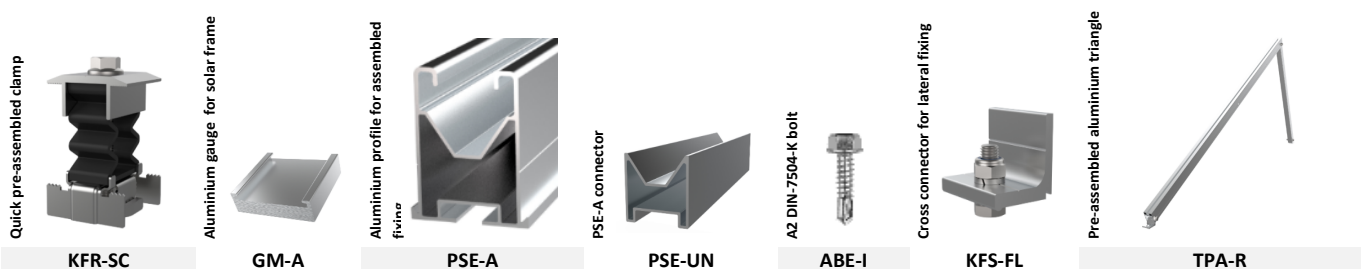
Triangular kit with PSE-A aluminium profile. Assembled fixing

### CHARACTERISTICS

- Assembly kit containing the components necessary for the installation of a determined number of solar panels.
- Installation based on triangular mounting **ST-PSE** system.
- Includes quick fixing clamps **KFRSC3050** for panels.
- Includes **GM-A** gauges for heights of 30, 35 and 40 mm.
- Includes **PSE-A** aluminium profile structure in continuous format.
- Includes **PSEUN060200** profile joint with **DIN-7504-K A2** installation screw set.
- Includes **TPA-R** pre-assembled triangles with three inclination options – 25°, 30° and 35°.
- Includes **KFSFLM08** lateral fixing connectors to join **PSE-A** profiles and **TPA-R** triangles from the kit.



### COMPONENTS



### APPLICATIONS

- Assembly of solar panels that are inclined with respect to the roof surface on flat and slightly sloping roofs.
- Installation on all roof types on pre-assembled triangles with adjustable 25°, 30° and 35° inclination.
- For panels with 35 mm- or 40 mm-high frames.
- For plate sizes up to 1150 mm wide
- Portrait view (vertical) orientation panel assembly.
- Options include direct assembly to the roof sub-structure or mounting on an auxiliary structure – consult specifications on the **ST-PSE** assembly system technical data sheet.
- For maximum panels sizes up to 2000 mm high and 1150 mm wide.


## 1.RANGE

ITEM	CODE	PHOTO	DESCRIPTION	PANELS	FRAME	LENGTH ROW	MATERIAL		
1	KTPSE0230		Triangular kit with PSE-A aluminium profile. Assembled fixing For two panels	2	30 mm	2500 mm			
	KTPSE0235			2	35 mm	2500 mm			
	KTPSE0240			2	40 mm	2500 mm			
2	KTPSE0330		Triangular kit with PSE-A aluminium profile. Assembled fixing For three panels	3	30 mm	3750 mm			
	KTPSE0335			3	35 mm	3750 mm			
	KTPSE0340			3	40 mm	3750 mm			
3	KTPSE02AM		Triangular kit with PSE-A aluminium profile. Assembled fixing For enlargement two panels	2	--	2500 mm			
	KTPSE03AM		Triangular kit with PSE-A aluminium profile. Assembled fixing For enlargement three panels	3	--	3750 mm			

## 2.INSTALLATION DATA

### 2.1 KTPSE02

Triangular kit with PSE-A aluminium profile. Assembled fixing  
For two panels

 <p><b>2 panels</b> <b>Reference</b></p>	<b>Component kit</b>								
	Quick pre-assembled clamp	Aluminium gauge for solar frame	Aluminium profile for assembled	PSE-A connector	A2 DIN-7504-K bolt	Cross connector for lateral fixing	Pre-assembled aluminium triangle		
	<b>KTPSE0230</b> (H=30mm)	<b>KFRSC3050</b> 6 units	<b>GMA030</b> 4 units	<b>PSEA601250</b> 4 units	<b>PSEUN060200</b> 2 units	<b>ABEI5519</b> 8 units	<b>KFSFLM08</b> 8 units	<b>TPAR251500</b> 2 units	
	<b>KTPSE0235</b> (H=35mm)	<b>KFRSC3050</b> 6 units	<b>GMA035</b> 4 units	<b>PSEA601250</b> 4 units	<b>PSEUN060200</b> 2 units	<b>ABEI5519</b> 8 units	<b>KFSFLM08</b> 8 units	<b>TPAR251500</b> 2 units	
<b>KTPSE0240</b> (H=40mm)	<b>KFRSC3050</b> 6 units	<b>GMA040</b> 4 units	<b>PSEA601250</b> 4 units	<b>PSEUN060200</b> 2 units	<b>ABEI5519</b> 8 units	<b>KFSFLM08</b> 8 units	<b>TPAR251500</b> 2 units		

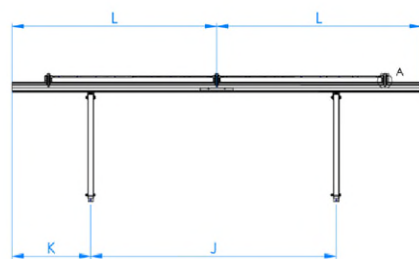
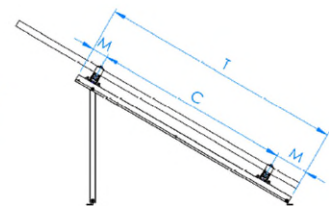
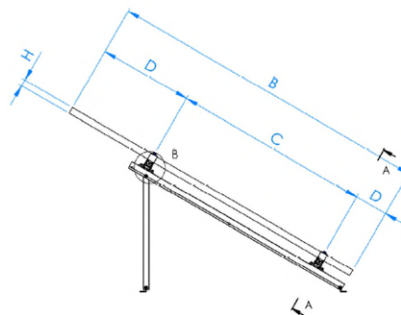
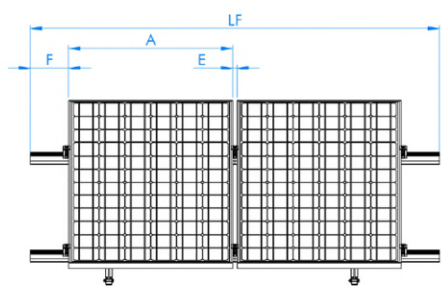
#### Roof/Fixing accessories

Consult technical data sheet corresponding to the ST-PSE assembly system.

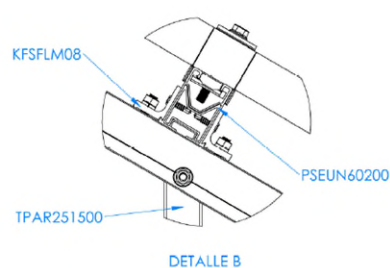
#### Measurement table

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	L (mm)	LF (mm)	M (mm)	T (mm)
KTPSE0230	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	30	1400÷1600	(LF-J) / 2	1250	2500	(T-C) / 2	1500
KTPSE0235	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	35	1400÷1600	(LF-J) / 2	1250	2500	(T-C) / 2	1500
KTPSE0240	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	40	1400÷1600	(LF-J) / 2	1250	2500	(T-C) / 2	1500

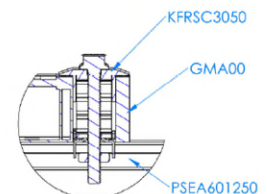
#### Drawing



SECTION A-A



DETAILLE B

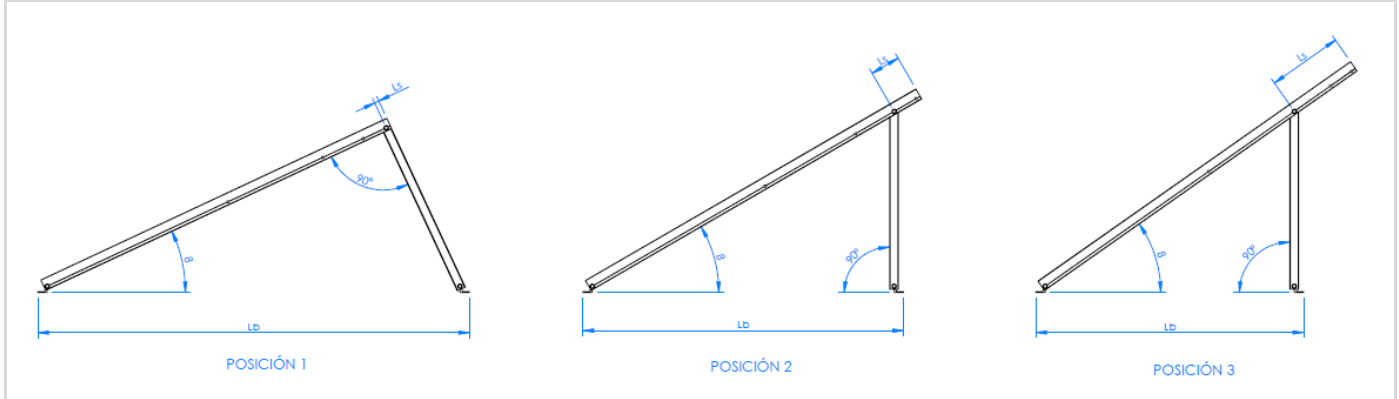


DETAILLE A

Measurement table 2

Code	Position 1			Position 2			Position 3		
	$\beta$ (°)	Ls (mm)	Lb (mm)	$\beta$ (°)	Ls (mm)	Lb (mm)	$\beta$ (°)	Ls (mm)	Lb (mm)
TPAR251500	25	18	1696	30	118	1260	35	293	1052

Drawing




Mechanical properties of the profile.

	Area S (cm <sup>2</sup> )	Moment of inertia I <sub>x</sub> (cm <sup>4</sup> )	Moment of inertia I <sub>y</sub> (cm <sup>4</sup> )	Section modulus W <sub>x</sub> (cm <sup>3</sup> )	Section modulus W <sub>y</sub> (cm <sup>3</sup> )	Linear weight W (kg/m)
 Upper profile	3,01	5,15	7,52	1,76	3,76	0,81
 Profile bar	2,59	4,66	4,66	2,66	2,66	0,70
 Profile fot	3,91	3,99	4,66	1,94	1,61	1,04

## 2.2 KTPSE03

### Triangle kit with aluminium profile (PSE-A). Assembled fixing For three panels

	Component Kit						
	Quick pre-assembled clamp	Aluminium gauge for solar frame	Aluminium profile for assembled	PSE-A connector	A2 DIN-7504-K bolt	Cross connector for lateral fixing	Pre-assembled aluminium triangle
<b>Reference</b>							
<b>KTPSE0330</b> (H=30mm)	KFRSC3050 8 units	GMA030 4 units	PSEA601875 4 units	PSEUN060200 2 units	ABEI5519 8 units	KFSFLM08 12 units	TPAR251500 3 units
<b>KTPSE0335</b> (H=35mm)	KFRSC3050 8 units	GMA035 4 units	PSEA601875 4 units	PSEUN060200 2 units	ABEI5519 8 units	KFSFLM08 12 units	TPAR251500 3 units
<b>KTPSE0340</b> (H=40mm)	KFRSC3050 8 units	GMA040 4 units	PSEA601875 4 units	PSEUN060200 2 units	ABEI5519 8 units	KFSFLM08 12 units	TPAR251500 3 units

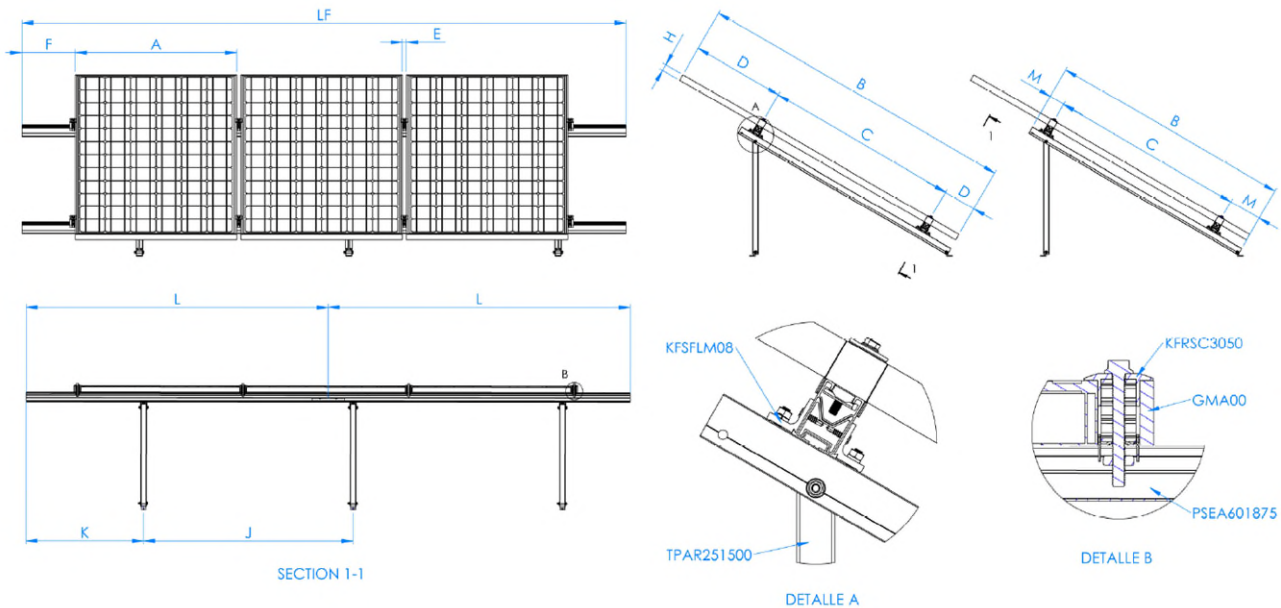
#### Roof/Fixing accessories

Consult technical data sheet corresponding to the ST-PSE assembly system.

#### Measurement table

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	L (mm)	LF (mm)	LU (mm)	M (mm)	T (mm)
KTPSE0330	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	50÷70	30	1300÷1500	(LF-2J) / 2	1875	3750	200	(T-C) / 2	1500
KTPSE0335	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	50÷70	35	1300÷1500	(LF-2J) / 2	1875	3750	200	(T-C) / 2	1500
KTPSE0340	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	50÷70	40	1300÷1500	(LF-2J) / 2	1875	3750	200	(T-C) / 2	1500

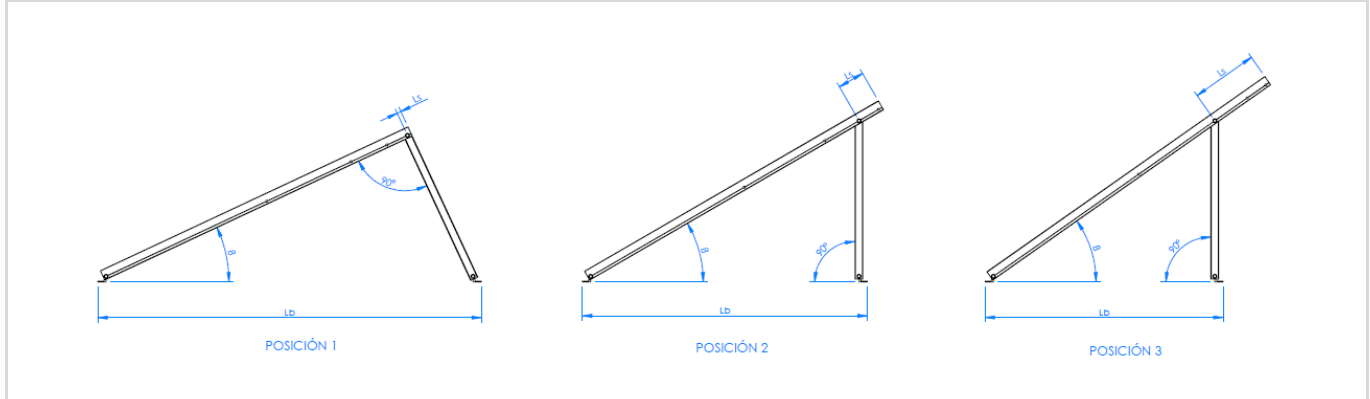
#### Drawing



Measurement table 2

Code	Position 1			Position 2			Position 3		
	$\beta$ (°)	Ls (mm)	Lb (mm)	$\beta$ (°)	Ls (mm)	Lb (mm)	$\beta$ (°)	Ls (mm)	Lb (mm)
TPAR251500	25	18	1696	30	118	1260	35	293	1052

Drawing



Mechanical properties of the profile.

	Area S (cm <sup>2</sup> )	Moment of inertia I <sub>x</sub> (cm <sup>4</sup> )	Moment of inertia I <sub>y</sub> (cm <sup>4</sup> )	Section modulus W <sub>x</sub> (cm <sup>3</sup> )	Section modulus W <sub>y</sub> (cm <sup>3</sup> )	Linear weight W (kg/m)
 Upper profile	3,01	5,15	7,52	1,76	3,76	0,81
 Profile bar	2,59	4,66	4,66	2,66	2,66	0,70
 Profile fot	3,91	3,99	4,66	1,94	1,61	1,04

### 2.3 KTPSEAM

### Triangular kit with aluminium profile (PSE-A). Assembled fixing. Enlargement for 2 and 3 panels

	<b>2 &amp; 3 panels</b> <b>Reference</b>	<b>Component Kit</b>					
		Quick pre-assembled clamp 	Aluminium profile for assembled 	PSE-A connector 	A2 DIN-7504-K bolt 	Cross connector for lateral fixing 	Pre-assembled aluminium triangle 
<b>KTPSE02AM</b>	<b>KFRSC3050</b> 4 units	<b>PSEA601250</b> 4 units	<b>PSEUN060200</b> 4 units	<b>ABE15519</b> 16 units	<b>KFSFLM08</b> 8 units	<b>TPAR251500</b> 2 units	
<b>KTPSE03AM</b>	<b>KFRSC3050</b> 6 units	<b>PSEA601875</b> 4 units	<b>PSEUN060200</b> 4 units	<b>ABE15519</b> 16 units	<b>KFSFLM08</b> 12 units	<b>TPAR251500</b> 3 units	

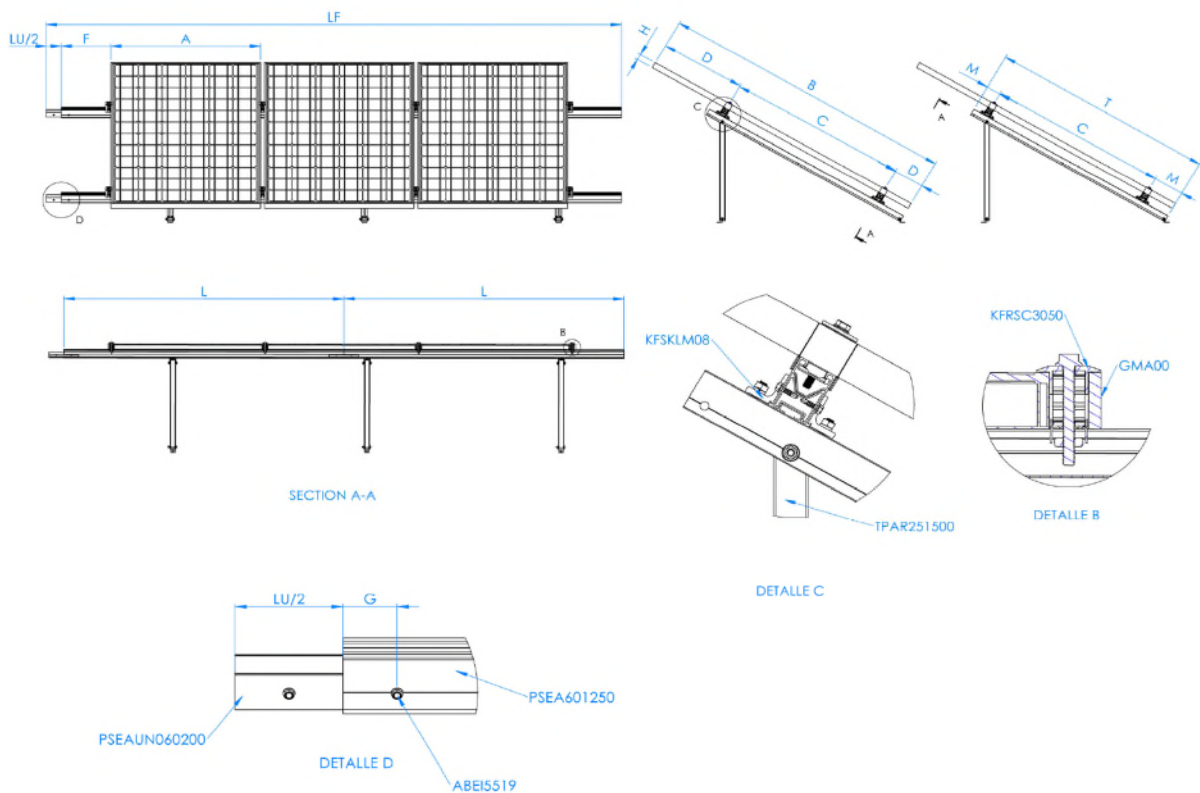
#### Roof/Fixing accessories

Consult technical data sheet corresponding to the ST-PSE assembly system.

#### Measurement table

Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	J (mm)	K (mm)	L (mm)	LF (mm)	LU (mm)	M (mm)	T (mm)
KTPSE02AM	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	50÷70	1300÷1500	(LF-2J) / 2	1250	2500	200	(T-C) / 2	1500
KTPSE03AM	≤ 1150	≤ 2100	0,5B ÷ 0,7B	0,1B ÷ 0,25B	26	≥ 35	50÷70	1300÷1500	(LF-2J) / 2	1875	3750	200	(T-C) / 2	1500

#### Drawing

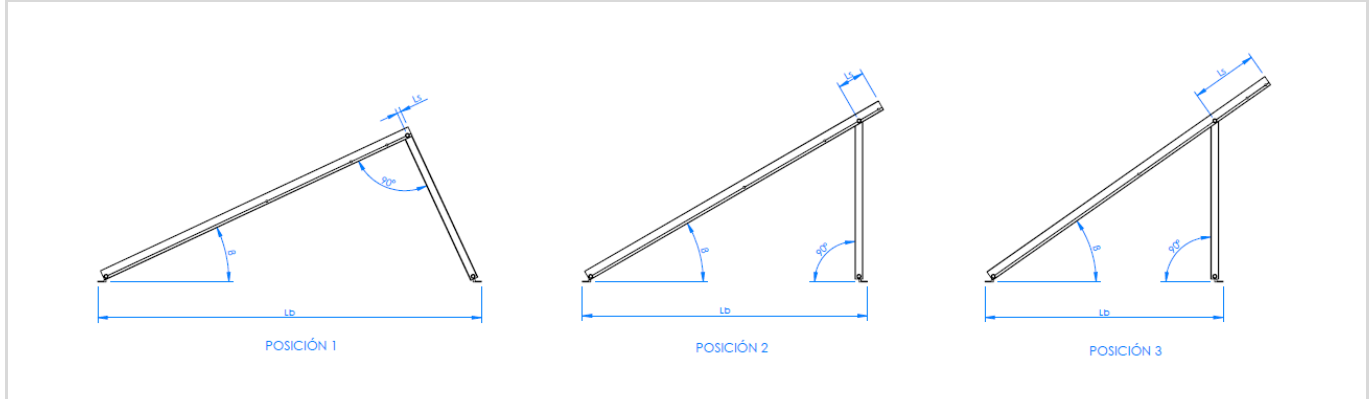


Example of enlargement kit composition 3 panels

Measurement table 2

Code	Position 1			Position 2			Position 3		
	$\beta$ (°)	Ls (mm)	Lb (mm)	$\beta$ (°)	Ls (mm)	Lb (mm)	$\beta$ (°)	Ls (mm)	Lb (mm)
TPAR251500	25	18	1696	30	118	1260	35	293	1052

Drawing



Mechanical properties of the profile.

	Area S (cm <sup>2</sup> )	Moment of inertia I <sub>x</sub> (cm <sup>4</sup> )	Moment of inertia I <sub>y</sub> (cm <sup>4</sup> )	Section modulus W <sub>x</sub> (cm <sup>3</sup> )	Section modulus W <sub>y</sub> (cm <sup>3</sup> )	Linear weight W (kg/m)
 Upper profile	3,01	5,15	7,52	1,76	3,76	0,81
 Profile bar	2,59	4,66	4,66	2,66	2,66	0,70
 Profile fot	3,91	3,99	4,66	1,94	1,61	1,04