



english version



IRFTS SHADOW SOLAR

SOLAR SHADE HOUSE STRUCTURE - ENERGY PRODUCTION AND
SUN PROTECTION

For 60 PV modules

Installation Manual IRFTS SHADOW SOLAR Garden



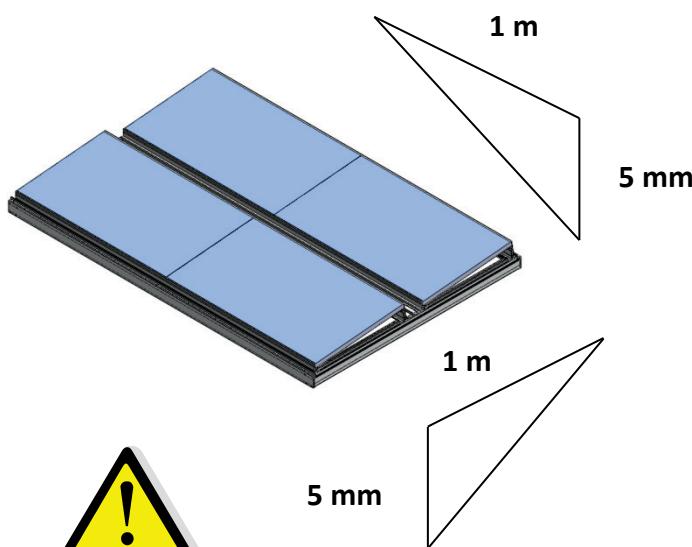
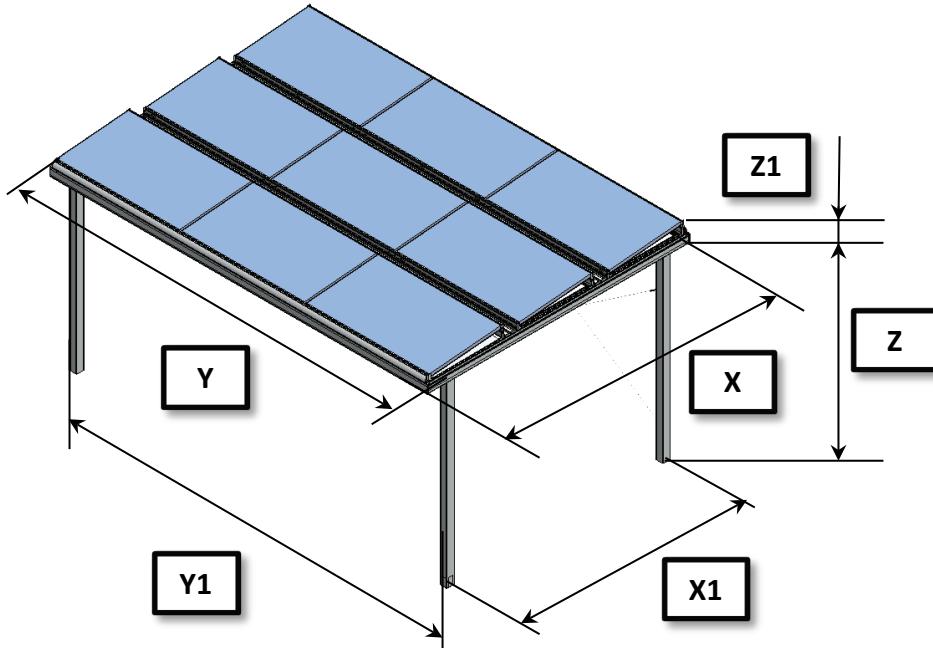
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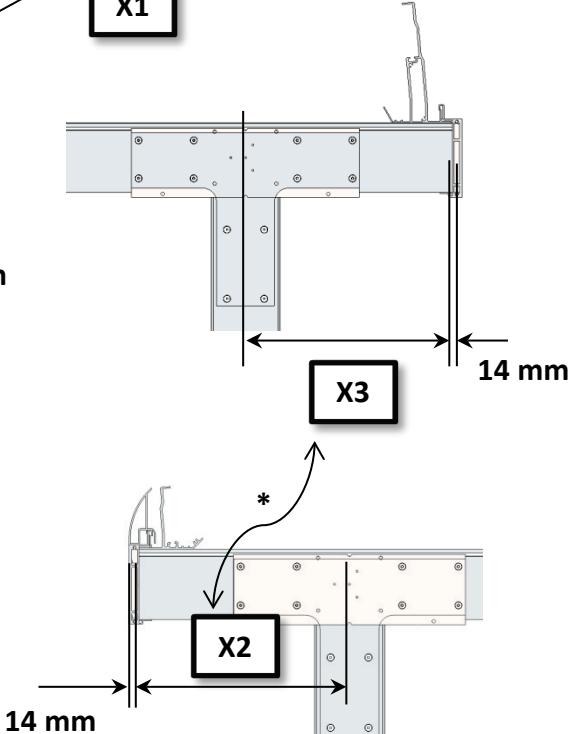
In order to optimize the PV production, it's recommended to clean the bottom of the shed. As well as the area where the drainage runs. The cleaning frequency depends on the environment.

Caractéristiques

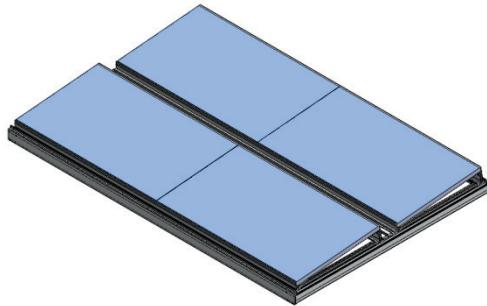
Format\Dimension	X	Y	Z	X1	X2	X3	Y1	Z1	
2x2	2330	3418	2400	X-14-14-X2-X3	62 -> 500	62 -> 500	Y-100	275	
3x3	3537	5094	2400	X-14-14-X2-X3	62 -> 1000	62 -> 500	Y-100	275	
4x2	4744	3418	2400	X-14-14-X2-X3	1000 -> 1200	62 -> 500	Y-100	275	
4x3	4744	5094	2400	X-14-14-X2-X3	531 -> 850 (X2 ≈ X3)	1000 -> 1200	62 -> 500	Y-100	275
					531 -> 850 (X2 ≈ X3)				



Don't forget the slope for water drainage

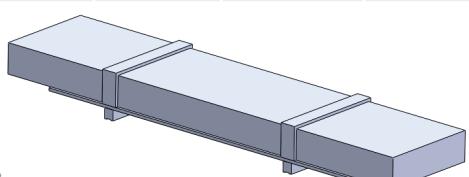


- : according to IRFTS SHADOW SOLAR implantation

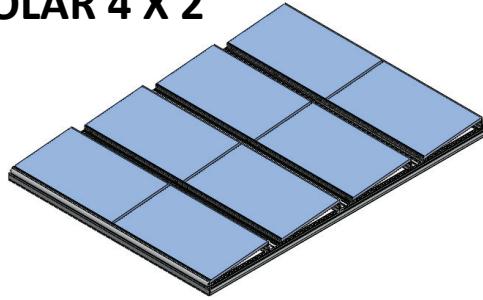
1)**Installation manual****1.1) Kit IRFTS SHADOW SOLAR 2 X 2**

Part's name	Item code SHAS7011D7016 M or 9010	Item code SHAS7012D7016 M or 9010	Number	Number/kit	Total weight
Gutter 2 x	PRT00117	PRT00117	1	2	17,4
Front cover x2	PRT00014	PRT00302	2	2	10,4
Back cover x2	PRT00015	PRT00303	3	2	23
Spoiler x 2	PRT00013	PRT00300	4	1	8,6
U weather tightness between modules	PRT00025	PRT00025	5	2	1,1
U weather tightness between rows x2	PRT000305	PRT00304	6	1	5
Module clamp	PRT00017	PRT00017	7	24	0,71
Spoiler cover	PRT00108	PRT00108	8	4	0,164
Assembly front spoiler x2	ASMOP00426A	ASMOP00482A	9	1	12,4
Sealing board	PRT00036	PRT00036	10	1	0,13
Squareness board	PRT00018	PRT00018	11	4	1,8
Gutter exit	PRT00106	PRT00106	12	2	0,046
Joint sealing tape TRS 15/1-3	PDCOP00533	PDCOP00533	36	2	
Mounting tool	PRT00105	PRT00105	25	1	0,77
Screw kit	ASMOP00335A (White)	ASMOP00335A (White)			
	ASMOP00336A (Black)	ASMOP00336A (Black)			2,5
Self drilling screw 6,3x38 Head H	V030V02	V030V02	13	50	
Self drilling screw 4,8x60 Head H	V044V02	V044V02	14	20	
Self drilling screw 4,8x50 counter sunk head Torx	V045V02	V045V02	15	50	
Self drilling screw 4,8x38 counter sunk head Torx	V043V02	V043V02	16	50	
Self drilling screw 3,5x25 counter sunk head Torx	V040V02	V040V02	17	10	
Self drilling screw 5,5x38 counter sunk head Torx	V046V02	V046V02	18	20	
Screw M6 x 30 Head hexagonale	V023V02	V023V02	19	100	
Washer D6 large	V024V02	V024V02	20	100	
Nut M6 hexagonal	V025V02	V025V02	21	100	
Rivet 4 x 16	V042V02*	V042V02*	22	30	
Screw cover Torx	V048V02*	V048V02*	23	80	
Screw cover feet	V049V02*	V049V02*	24	10	
Side cover (see page 9)				1*(A)	3,4
					87,42

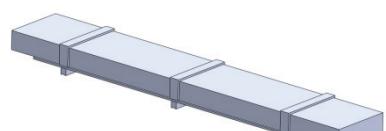
* : according to color

3450 x 800 x 350

1)

Installation manual**1.2)Kit IRFTS SHADOW SOLAR 4 X 2**

Part's name	Item code SHAS7031D7016M or 9010	Item code SHAS7032D7016M or 9010	Number	Number/kit	Total weight
Gutter 4 x	PRT00016	PRT00016	1	2	35,7
Front cover x2	PRT00014	PRT00302	2	4	20,8
Back cover x2	PRT00015	PRT00303	3	4	46
Spoiler x 2	PRT00013	PRT00300	4	1	8,6
U weather tightness between modules	PRT00025	PRT00025	5	4	2,2
U weather tightness between rows x2	PRT00305	PRT00304	6	3	14,8
Module clamp	PRT00017	PRT00017	7	48	1,4
Spoiler cover	PRT00108	PRT00108	8	4	0,164
Assembly front spoiler x2	ASMOP00426A	ASMOP00482A	9	1	12,4
Sealing board	PRT00036	PRT00036	10	1	0,13
Squareness board	PRT00018	PRT00018	11	4	1,8
Gutter exit	PRT00106	PRT00106	12	2	0,046
Joint sealing tape TRS 15/1-3	PDCOP00533	PDCOP00533	36	3	
Mounting tool	PRT00105	PRT00105	25	1	0,77
Screw kit	ASMOP00335A (White) ASMOP00336A (Black)	ASMOP00335A (White) ASMOP00336A (Black)			2,5
Self drilling screw 6,3x38 Head H	V030V02	V030V02	13	50	
Self drilling screw 4,8x60 Head H	V044V02	V044V02	14	20	
Self drilling screw 4,8x50 counter sunk head Torx	V045V02	V045V02	15	50	
Self drilling screw 4,8x38 counter sunk head Torx	V043V02	V043V02	16	50	
Self drilling screw 3,5x25 counter sunk head Torx	V040V02	V040V02	17	10	
Self drilling screw 5,5x38 counter sunk head Torx	V046V02	V046V02	18	20	
Screw M6 x 30 Head hexagonale	V023V02	V023V02	19	100	
Washer D6 large	V024V02	V024V02	20	100	
Nut M6 hexagonal	V025V02	V025V02	21	100	
Rivet 4 x 16	V042V02*	V042V02*	22	30	
Screw cover Torx	V048V02*	V048V02*	23	80	
Screw cover feet	V049V02*	V049V02*	24	10	
Side cover (see page 9)				1*(A) + 2 *(B)	7,4
					154,71

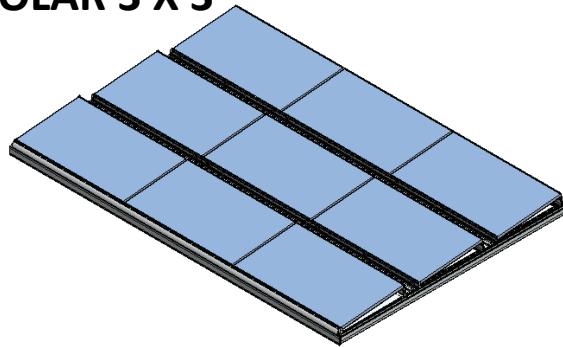
4750 x 800 x 350

* : according to color

1)

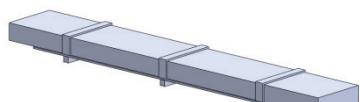
Installation manual

1.3) Kit IRFTS SHADOW SOLAR 3 X 3



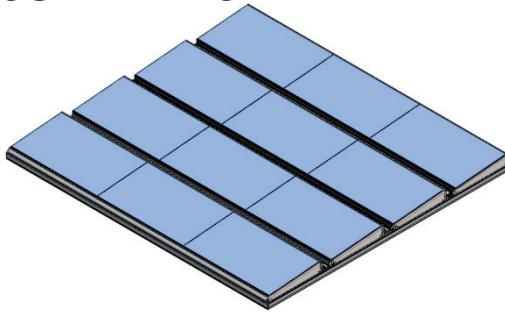
Part's name	Item code SHAS7021D7016M or 9010	Item code SHAS7022D7016M or 9010	Number	Number/kit	Total weight
Gutter 3 x	PRT00026	PRT00026	1	3	39,8
Front cover x3	PRT00027	PRT000297	2	3	23,4
Back cover x3	PRT00028	PRT000298	3	3	51,7
Spoiler x 3	PRT00029	PRT000295	4	1	12,8
U weather tightness between modules	PRT00025	PRT00025	5	6	3,2
U weather tightness between rows x3	PRT00195	PRT000299	6	2	14,8
Module clamp	PRT00017	PRT00017	7	54	1,6
Spoiler cover	PRT00108	PRT00108	8	4	0,164
Assembly front spoiler x3	ASMOP00427A	ASMOP00480A	9	1	18,5
Sealing board	PRT00036	PRT00036	10	1	0,13
Squareness board	PRT00018	PRT00018	11	4	1,8
Gutter exit	PRT00106	PRT00106	12	2	0,046
Joint sealing tape TRS 15/1-3	PDCOP00533	PDCOP00533	36	3	
Mounting tool	PRT00105	PRT00105	25	1	0,77
Screw kit	ASMOP00335A (White)	ASMOP00335A (White)			
	ASMOP00336A (Black)	ASMOP00336A (Black)			2,5
Self drilling screw 6,3x38 Head H	V030V02	V030V02	13	50	
Self drilling screw 4,8x60 Head H	V044V02	V044V02	14	20	
Self drilling screw 4,8x50 counter sunk head Torx	V045V02	V045V02	15	50	
Self drilling screw 4,8x38 counter sunk head Torx	V043V02	V043V02	16	50	
Self drilling screw 3,5x25 counter sunk head Torx	V040V02	V040V02	17	10	
Self drilling screw 5,5x38 counter sunk head Torx	V046V02	V046V02	18	20	
Screw M6 x 30 Head hexagonale	V023V02	V023V02	19	100	
Washer D6 large	V024V02	V024V02	20	100	
Nut M6 hexagonal	V025V02	V025V02	21	100	
Rivet 4 x 16	V042V02*	V042V02*	22	30	
Screw cover Torx	V048V02*	V048V02*	23	80	
Screw cover feet	V049V02*	V049V02*	24	10	
Side cover (see page 9)				1*(A) + 1*(B)	5,4
					176,61

5120 x 800 x 350



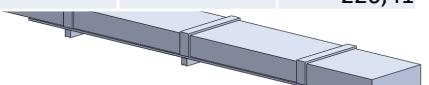
*: according to color

1)

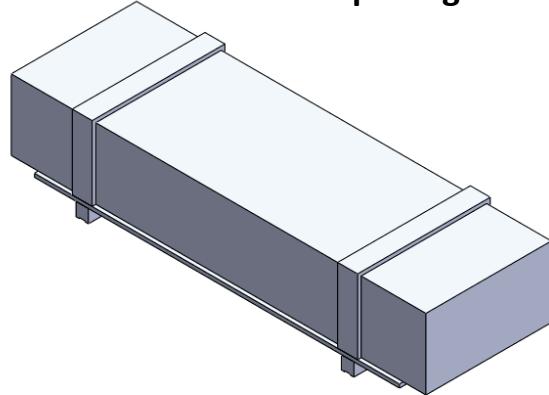
Installation manual**1.4) Kit IRFTS SHADOW SOLAR 4 X 3**

Part's name	Item code SHAS7041D7016M or 9010	Item code SHAS7042D7016M or 9010	Number	Number/kit	Total weight
Gutter 4 x	PRT00016	PRT00016	1	3	53,6
Front cover x3	PRT00027	PRT00297	2	4	31,2
Back cover x3	PRT00028	PRT00298	3	4	68,9
Spoiler x 3	PRT00029	PRT00295	4	1	12,8
U weather tightness between modules	PRT00025	PRT00025	5	8	4,3
U weather tightness between rows x3	PRT00195	PRT00299	6	3	22,2
Module clamp	PRT00017	PRT00017	7	72	2,1
Spoiler cover	PRT00108	PRT00108	8	4	0,164
Assembly front spoiler x3	ASMOP00427A	ASMOP00480A	9	1	18,5
Sealing board	PRT00036	PRT00036	10	1	0,13
Squareness board	PRT00018	PRT00018	11	4	1,8
Gutter exit	PRT00106	PRT00106	12	2	0,046
Joint sealing tape TRS 15/1-3	PDCOP00533	PDCOP00533	36	4	
Mounting tool	PRT00105	PRT00105	25	1	0,77
Screw kit	ASMOP00335A (White) ASMOP00336A (Black)	ASMOP00335A (White) ASMOP00336A (Black)			2,5
Self drilling screw 6,3x38 Head H	V030V02	V030V02	13	50	
Self drilling screw 4,8x60 Head H	V044V02	V044V02	14	20	
Self drilling screw 4,8x50 counter sunk head Torx	V045V02	V045V02	15	50	
Self drilling screw 4,8x38 counter sunk head Torx	V043V02	V043V02	16	50	
Self drilling screw 3,5x25 counter sunk head Torx	V040V02	V040V02	17	10	
Self drilling screw 5,5x38 counter sunk head Torx	V046V02	V046V02	18	20	
Screw M6 x 30 Head hexagonale	V023V02	V023V02	19	100	
Washer D6 large	V024V02	V024V02	20	100	
Nut M6 hexagonal	V025V02	V025V02	21	100	
Rivet 4 x 16	V042V02*	V042V02*	22	30	
Screw cover Torx	V048V02*	V048V02*	23	80	
Screw cover feet	V049V02*	V049V02*	24	10	
Side cover (see page 9)				1*(A) + 2*(B)	7,4
					226,41

* : according to color



1)

Installation manual**1.5) IRFTS SHADOW SOLAR feet and side covers**

**2430 x 800 x 550
package of 14 x 2 feets**



**2430 x 200 x 100
package of 2 feets
Or
3530x200x100
package of 2 feets**

Part's name	Item code SHAS7057016M or 9010	Number	Number/kit	Total weight
feet (2,4m)	PRT00012	26	2	17
Feet support	PRT00020	27	2	0,35
				17,35

Part's name	Item code SHAS7087016M or 9010	Number	Number/kit	Total weight
feet (lg3,5m)	PRTOP00447A	36	2	24,7
Feet support	PRT00020	27	2	0,35
				25,05



Part's name	Item code ASMOP00382A	Number	Number/kit	Total weight
Feet base	PRTOP00173A	37	2	9
Screw 6,3x19	V062V02		10	
Cover Black Feet base	V063V02N		10	
Cover White Feet base	V063V02B		10	

1)

Installation manual**1.5) IRFTS SHADOW SOLAR feets and side cover****(A) Side Cover First and Last Row**

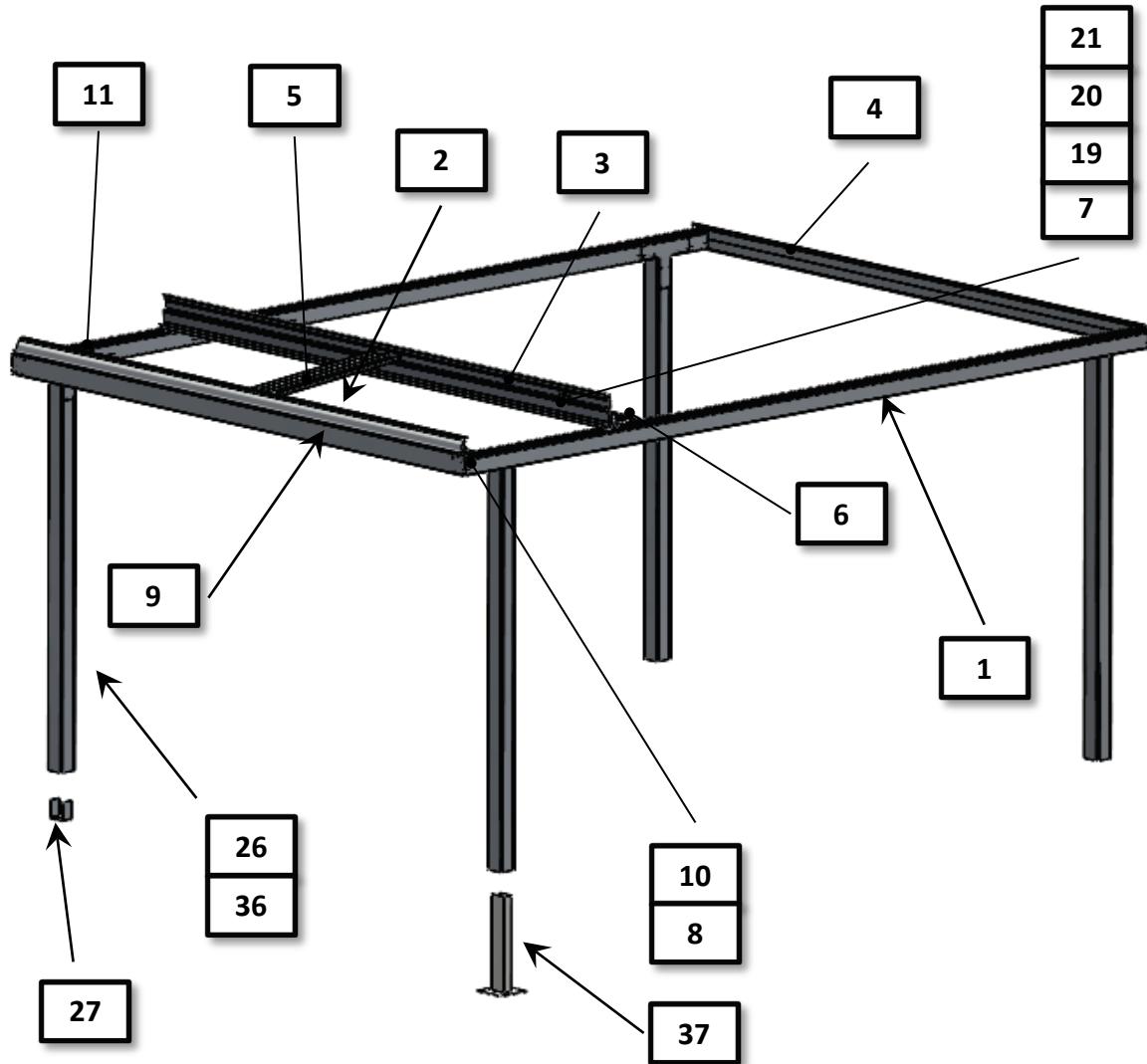
Part's name	Item code	Number	Number / kit
Side cover front left	PRTOP00161A	28	1
Side cover front right	PRTOP00162A	28'	1
Side cover back left	PRTOP00163A	29	2
Side cover back right	PRTOP00164A	29'	2
Side cover without strenght front left	PRTOP00165A	30	1
Side cover without strenght front right	PRTOP00166A	30'	1
Right side cover	PRTOP00109A	31	2
Left side cover	PRTOP00113A	32	2
Profile inter module	PRTOP00489A	33	2
Self drilling screw 4,8x22 counter sunk head Thortex	V047V02	34	30
ceiling holder	PRT00215	35	16
weight total			3,4 kg

(B) Side Cover addional Row

Part's name	Item code	Number	Number/kit
Side cover back left	PRTOP00163A	29	1
Side cover back right	PRTOP00164A	29'	1
Side cover without strenght front left	PRTOP00165A	30	1
Side cover without strenght front right	PRTOP00166A	30'	1
Right side cover	PRTOP00109A	31	1
Left side cover	PRTOP00113A	32	1
Profile inter module	PRTOP00489A	33	2
ceiling holder	PRT00215	35	8
weight total			2 kg

1.6)

Part's representation



Tools needed for the assembly of the IRFTS SHADOW GARDEN

	Drill bit	Hole saw	bit
Drill	Ø3-Ø4-Ø5-Ø7	Ø40	
Electrical screw driver			TX25-TX10
Rivet gun			rivet Ø4

Module's compatibility :
 986 mm to 1001 mm de width
 1635 mm to 1676 mm de length
 30 to 46 mm thickness

Application field :

Format	Wind Zones 3 Eurocodes1 NF-EN-1991	Pressure Max (daN/m ²)	Wind speed (m/s)
2x2	up to 900 m	220	39
3x3	up to 900 m	140	31
4x2	up to 900 m	180	36
4x3	up to 900 m	136	31

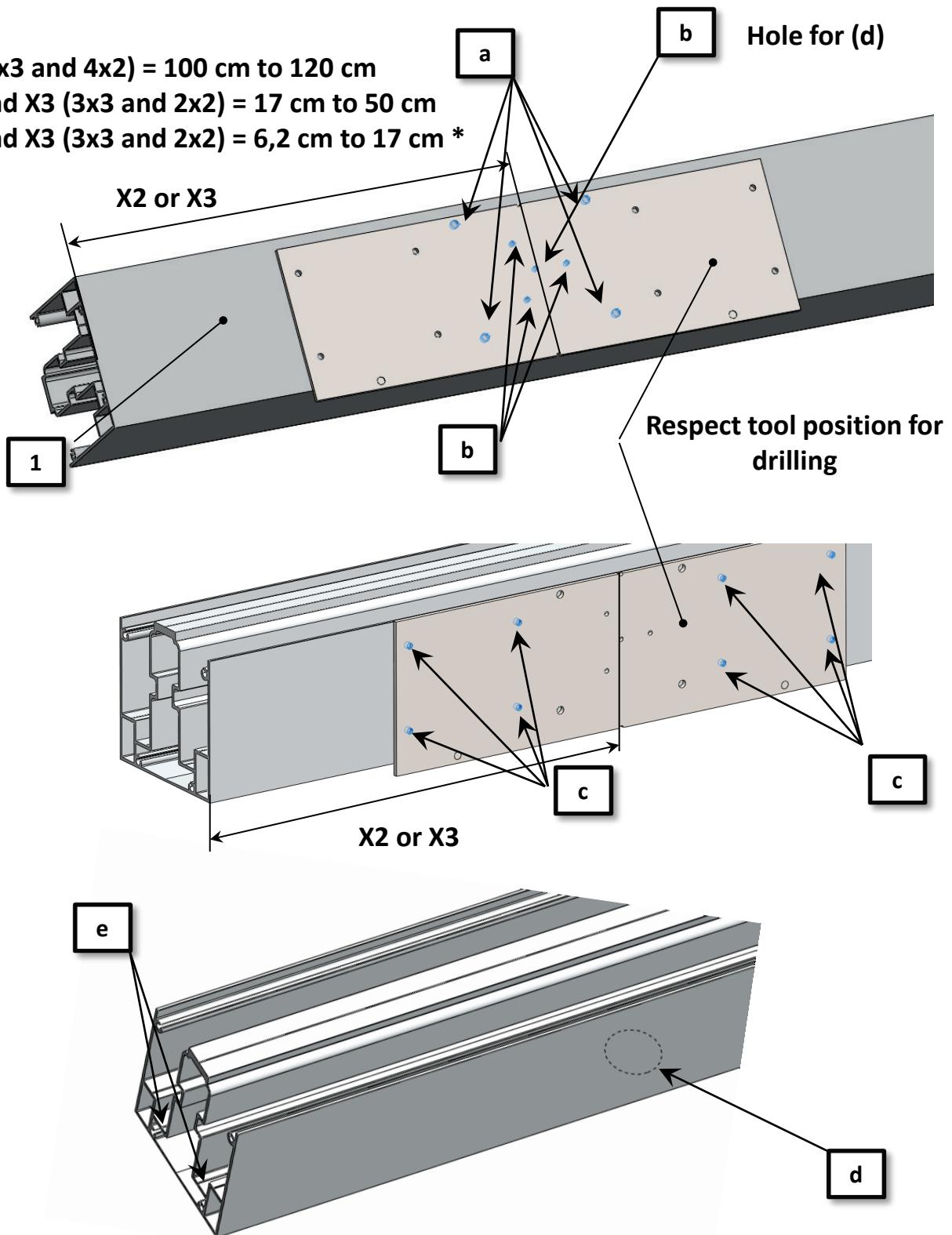
2.1

Gutter preparation

X2 (4x3 and 4x2) = 100 cm to 120 cm

X2 and X3 (3x3 and 2x2) = 17 cm to 50 cm

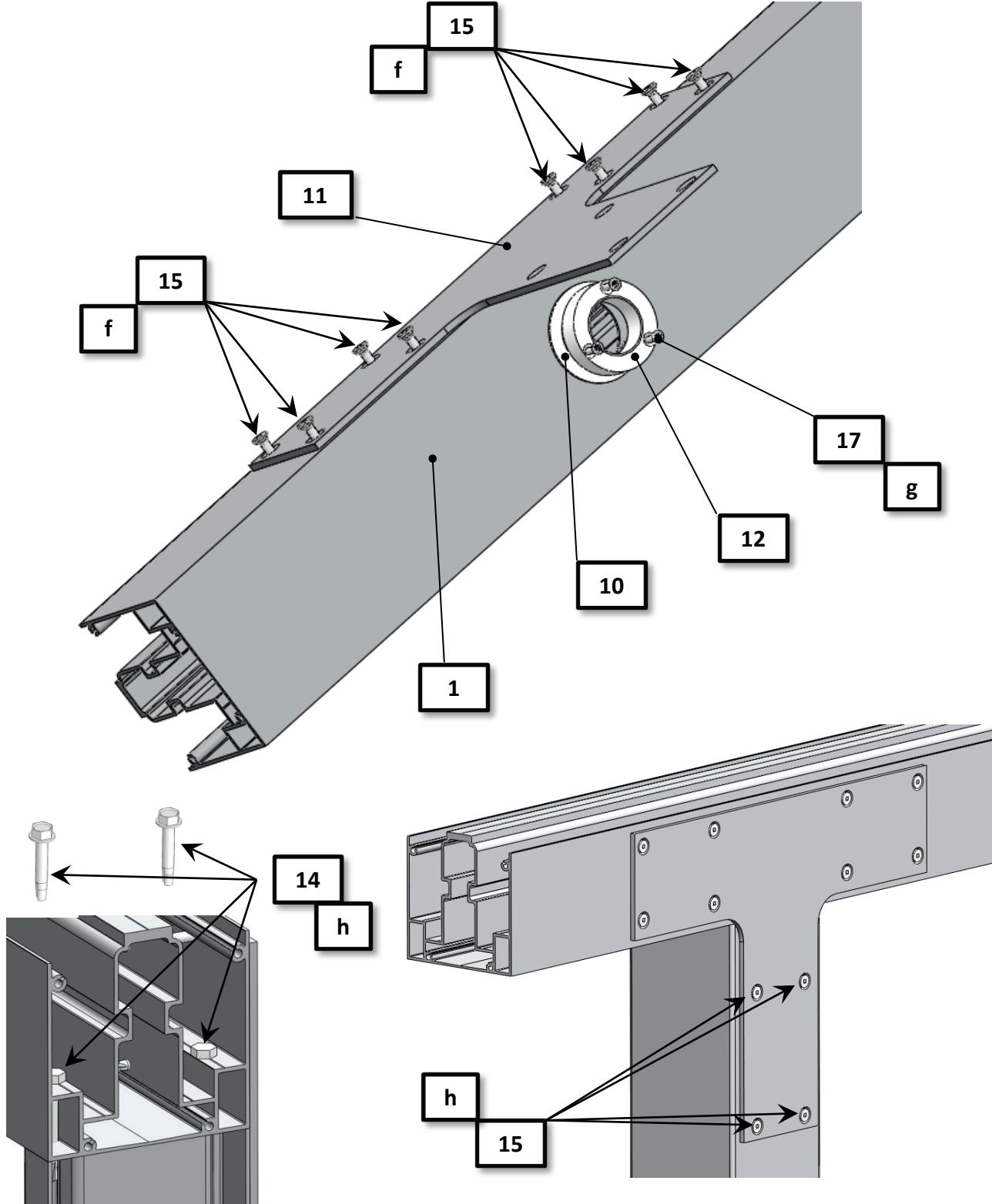
X2 and X3 (3x3 and 2x2) = 6,2 cm to 17 cm *



- a) Drill with a bit diameter 5mm both walls.
 - b) Drill with a bit diameter 3mm only through this wall and only on water drainage side.
 - c) Drill with a bit diameter 4mm 2 walls at the top and 3 walls at the bottom.
 - d) Drill with a hole saw diameter 40 mm using the hole (b) (only on water drainage side).
 - e) Drill with a bit diameter 8mm to 15 mm , at 50mm from the Gutter side, then above the drainage hole, then every 50 cm, only this wall.
- * See Chapter 6 .

2.1

Gutter preparation



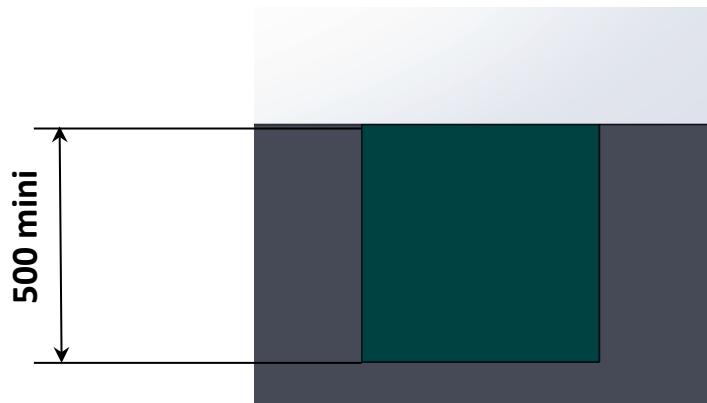
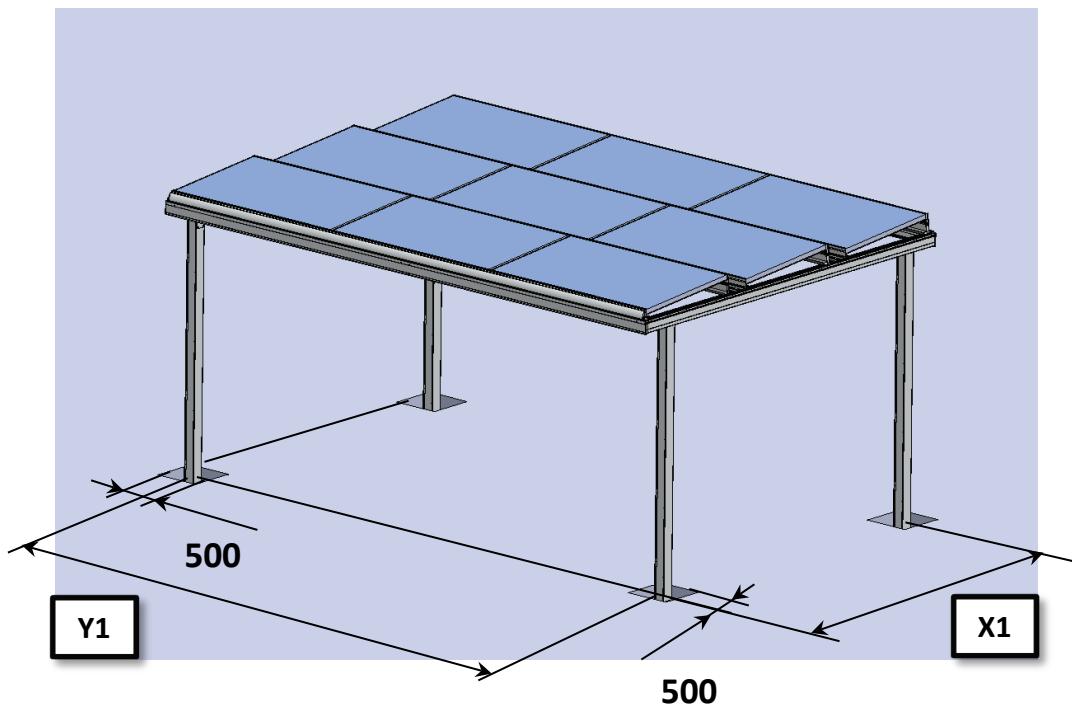
f) Screw (1) and (11) using screw (15) .

g) Screw (1),(10) and (12) using screw (17) (only on water evacuation side) .

h) Screw (1) and (26) using screw (14) and (15) . Don't forget to prepare the foot for water evacuation if needed (see #6)

i) Put the screw cover where needed(23) .

2.2 Preparation for the IRFTS SHADOW GARDEN installation



-
- a) Make 4 holes 50 x 50 x 50 cm respect the center distance and make sure it's square.

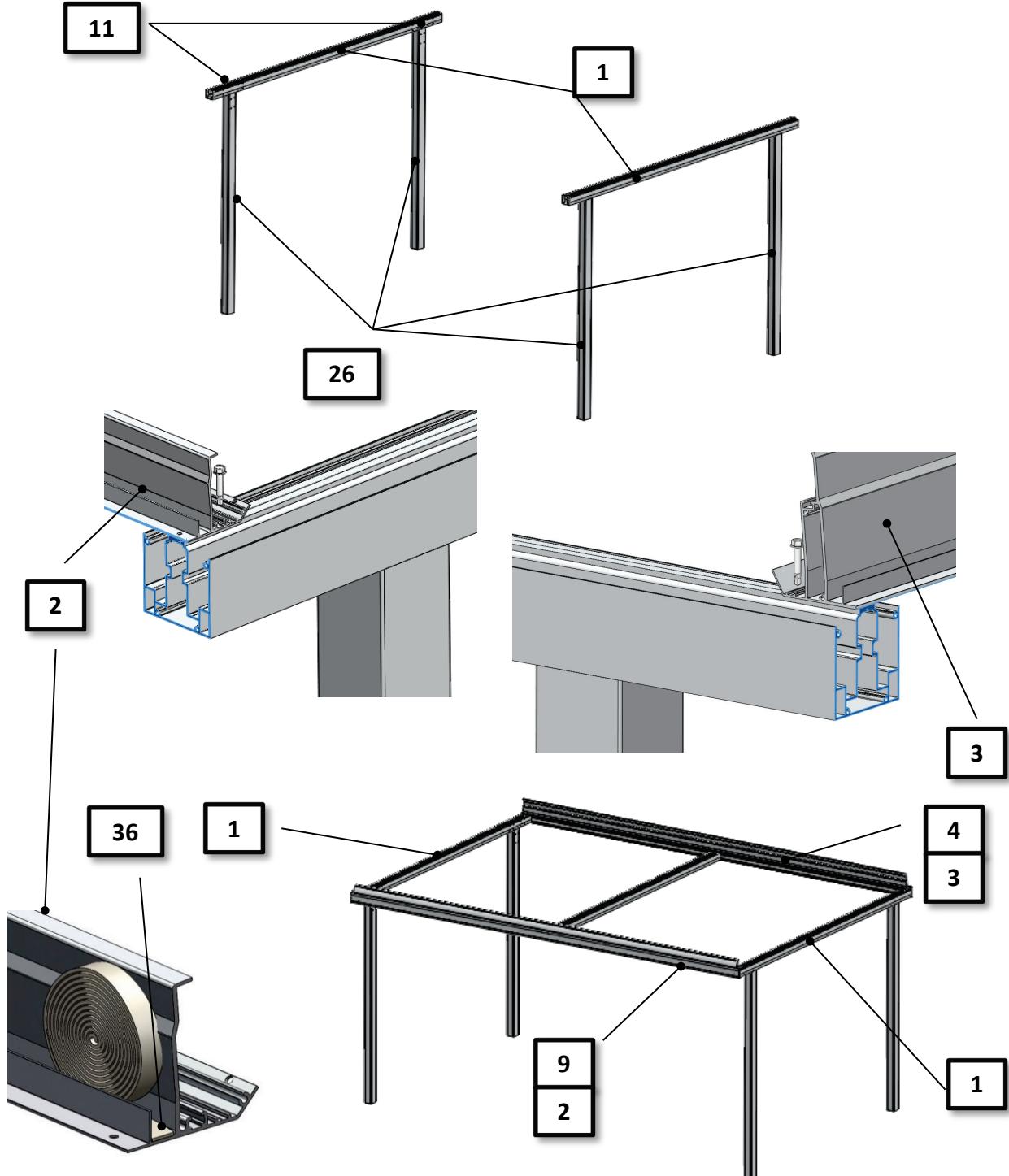
	IRFTS SADOW SOLAR configuration			
	4x3	4x2	3x3	2x2
Dimension X1 for 4 feet	4717-X2-X3	4717-X2-X3	3510-X2-X3	2302-X2-X3

Model "IRFTS SHADOW SOLAR"

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2.3

Structure assembly



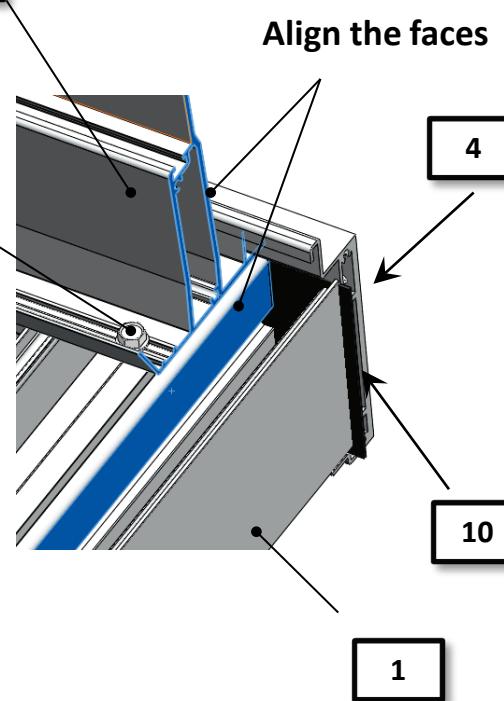
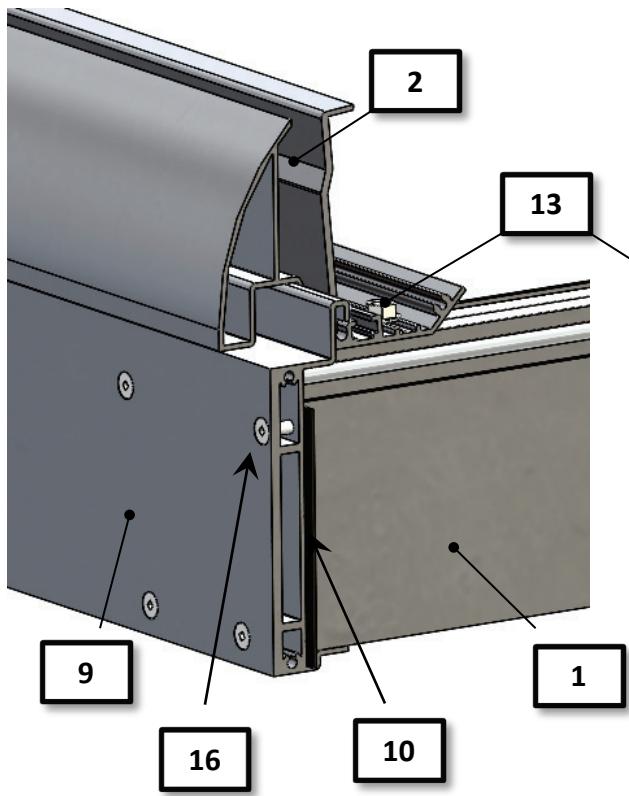
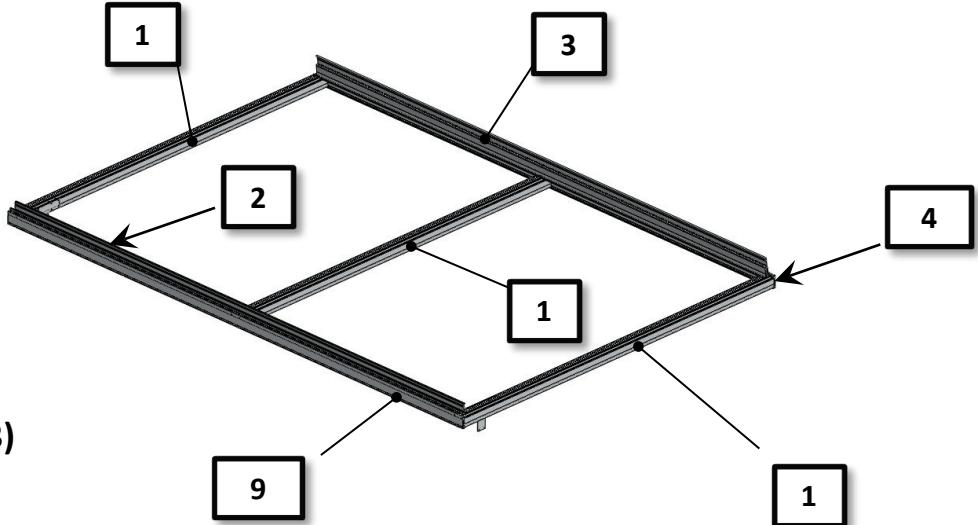
- Assemble (26), (1) and (11) to create the support where to fix (9+2) and (4+3).
You can use battens and clamp to maintain the assembly vertically
- To ease the fixing of (9) and (4), align and screw (2) and (3) with (1) using screw (13) as indicated page 15.
On the profile (2) place the joint sealing tape (36). Only on the front side.
The joint sealing tape must be continuous on the full length of the profile.
- Assemble (9) and (2) with (1), take care of the perpendicularity of the assembly as indicated page 15.
- Repeat with (4) and (3) with (1). Screw with (16) and see page 15.

2.3

Structure assembly



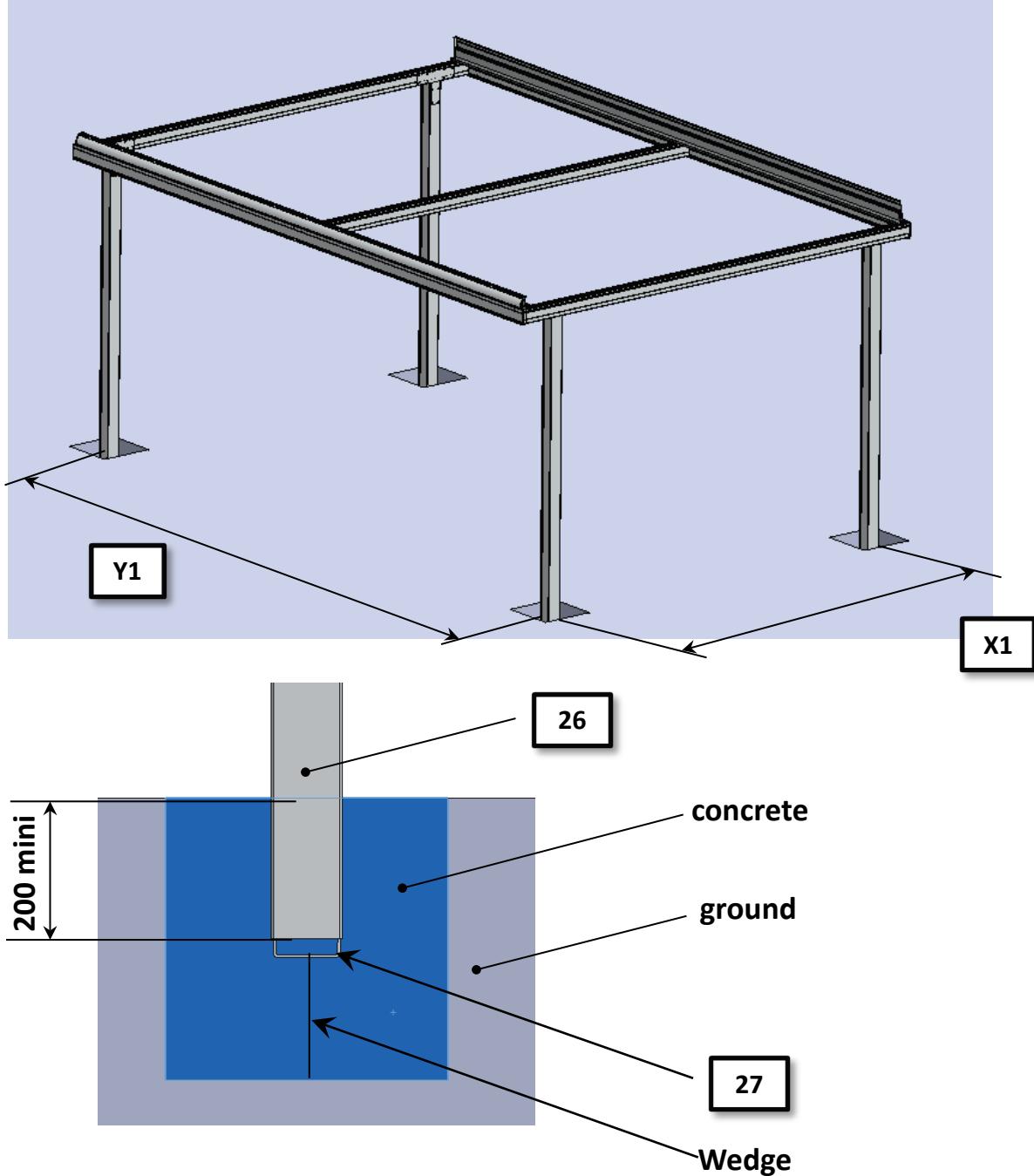
**Attention don't
forget to mount (33)
on (1) see page 23**



- a) Screw (2) and (3) on (1) using screw (13), respect the face alignment (position the 4 faces together)
- b) Screw (4) and (1) with (10) in between using screw (16) .
- c) Put the screw cover (23) except the one against the facade.
- d) TRICK : You can pre-mount (19),(20) and (21) on (2) and (3) .

2.3

Structure assembly



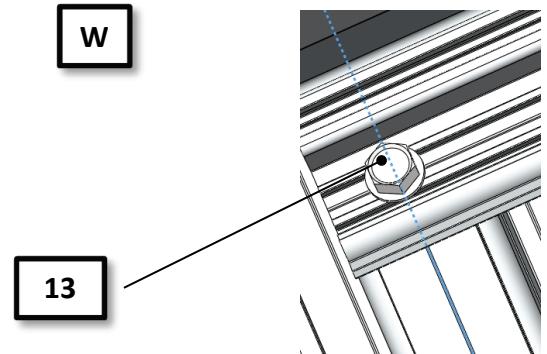
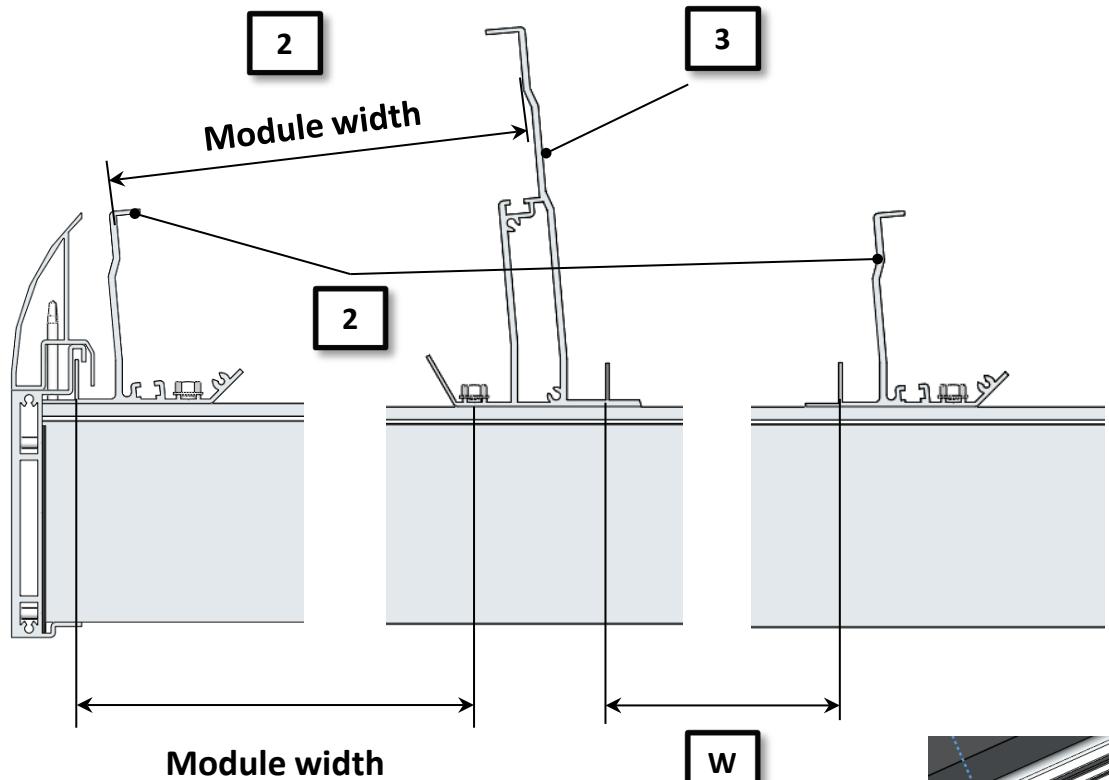
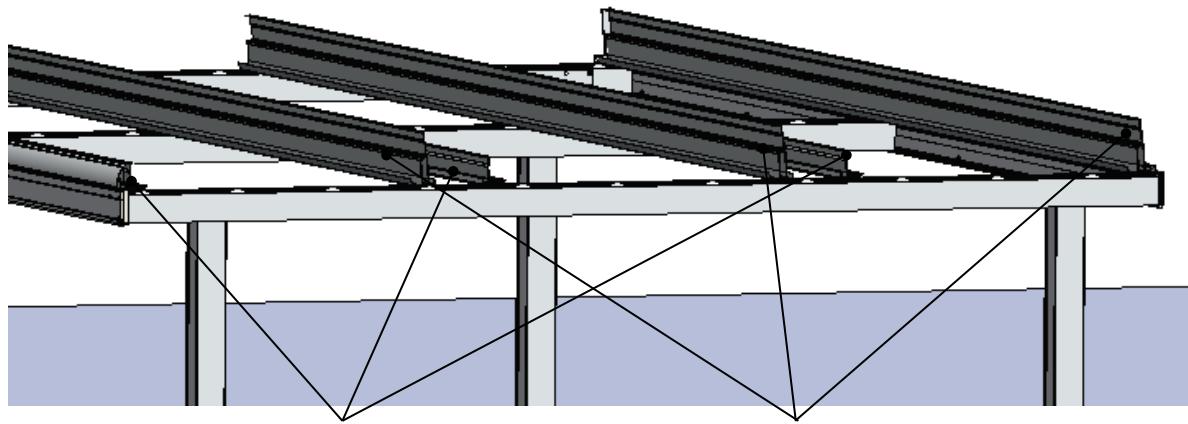
- a) Adjust the structure height using wedge (not supplied).

	IRFTS SHADOW SOLAR configuration			
	4x3	4x2	3x3	2x2
Dimension X1 for 4 feet	4717-X2-X3	4717-X2-X3	3510-X2-X3	2302-X2-X3

- b) Center the feet in the holes, respect the dimensions X1 et Y1 .
 c) Create a slight slope for the water drainage

2.4

Module row positioning



a) Mount parts (2) and (3) using screw (13) following the below calculation .

Format 2x2

$$W = (2268 - (2 \times (\text{panel width} + 60))) .$$

Format 3x3

$$W = (3476 - (3 \times (\text{panel width} + 60))) / 2 .$$

Format 4x3 and 4x2

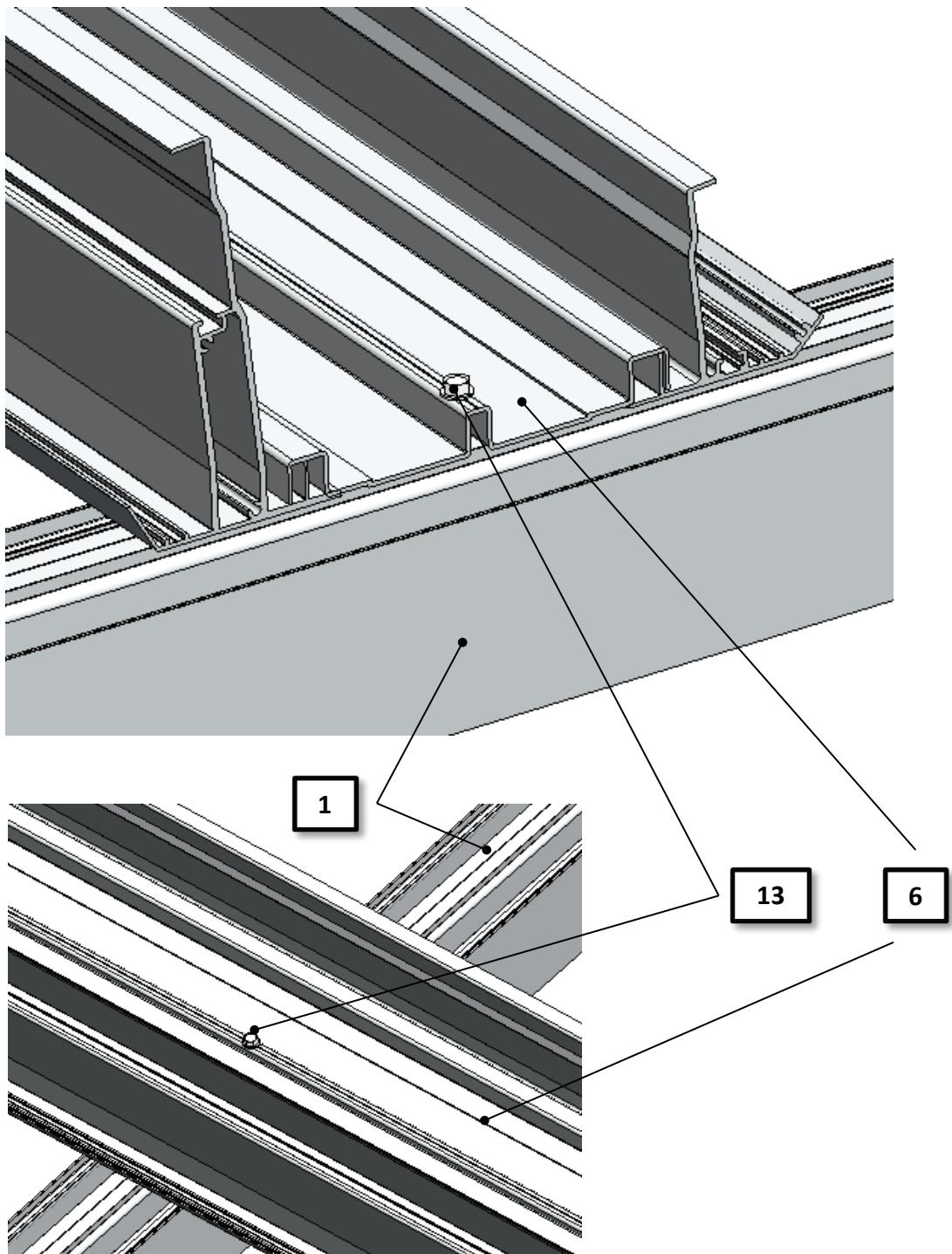
$$W = (4682 - (4 \times (\text{panel width} + 60))) / 3 .$$

Check the panel width and the distance between profil before the asembly of (3),(2) and (1)

b) Respect the alignment like shown page 13 .

2.4

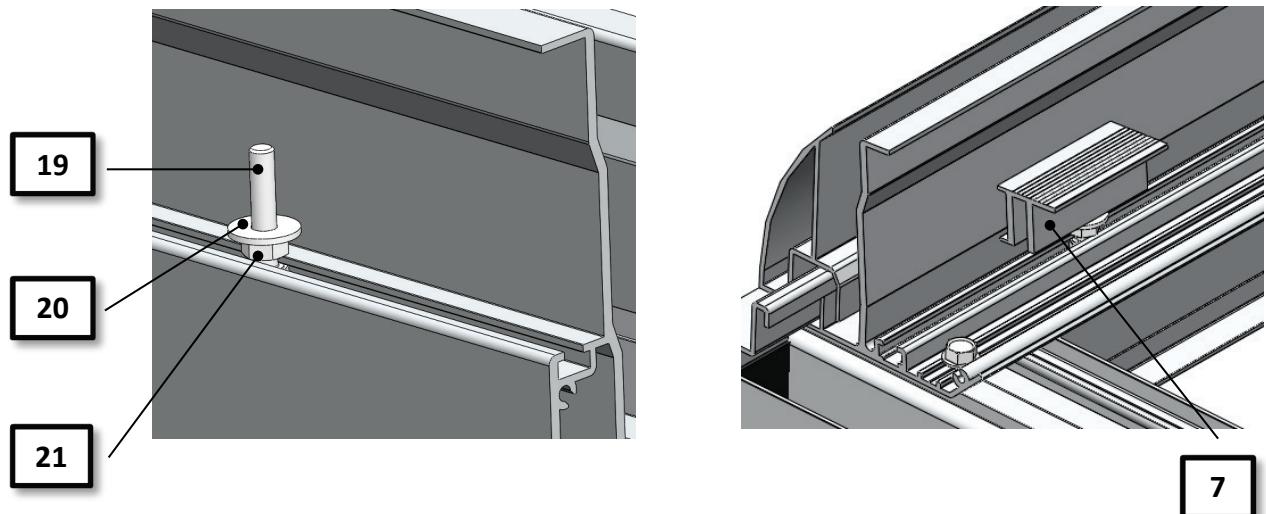
Module row positioning



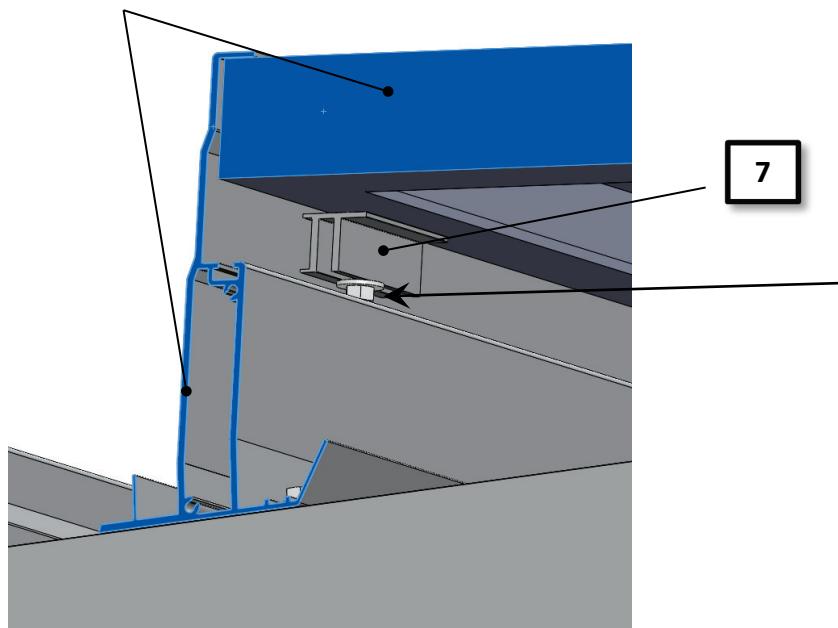
- a) Mount parts (6) and (1) using screw (13) .
- b) Respect the alignment like shown page 13 .

2.5

Module fixing



Align the faces

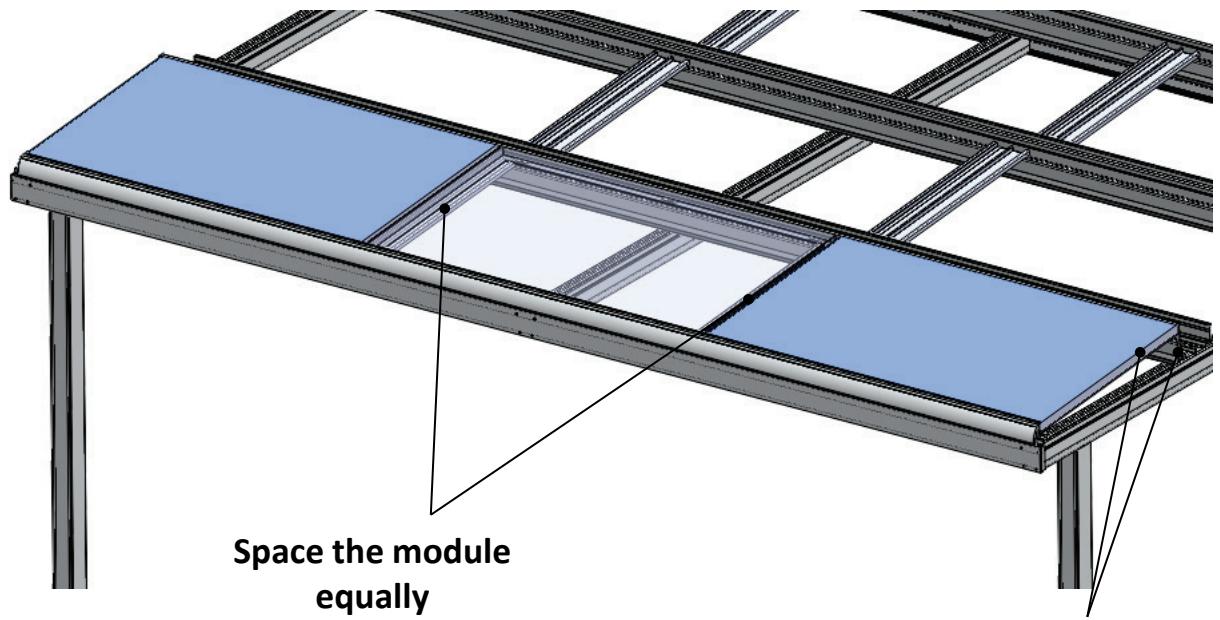
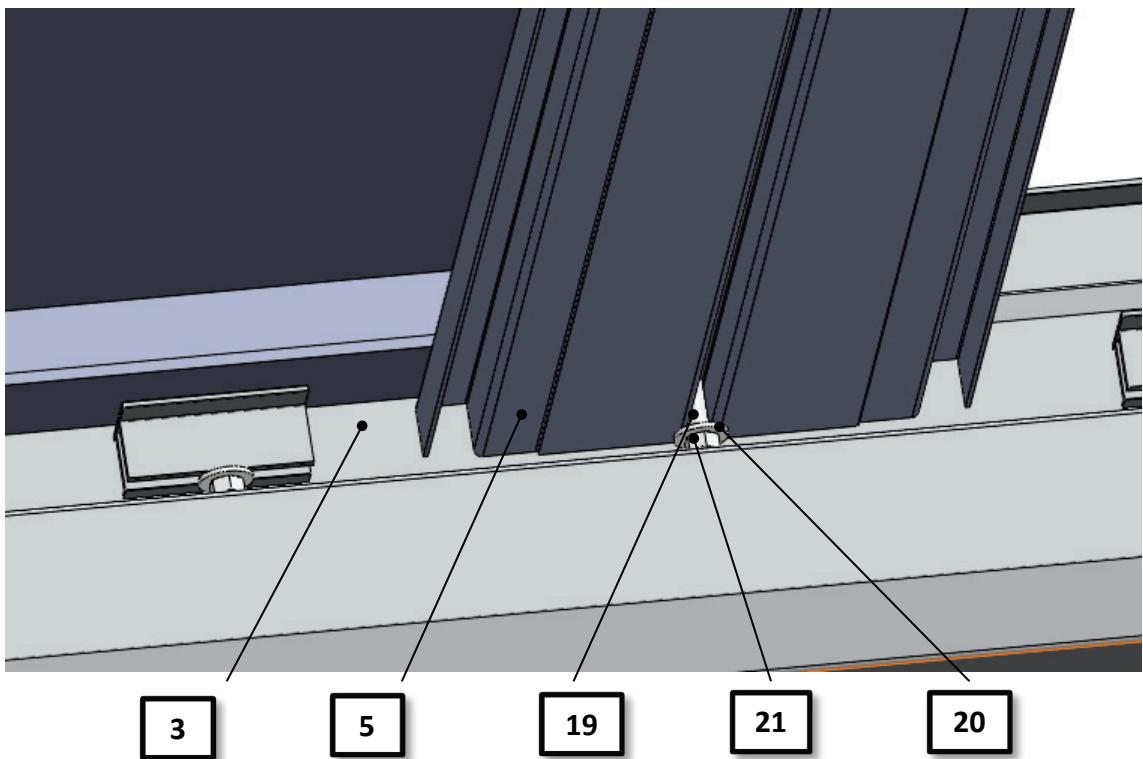
**10 mm Spanner**

**X2 : 7 x (19+20+21) per row
X3 : 11 x (19+20+21) per row**

- a) Slide the assembly (19), (20) and (21) in the grove .
- b) Slide the first module , use 6 x (7)(19)(20)(21) per module (3 per side).
- c) Screw using a 10 mm spanner and push (7) against the module .

2.5

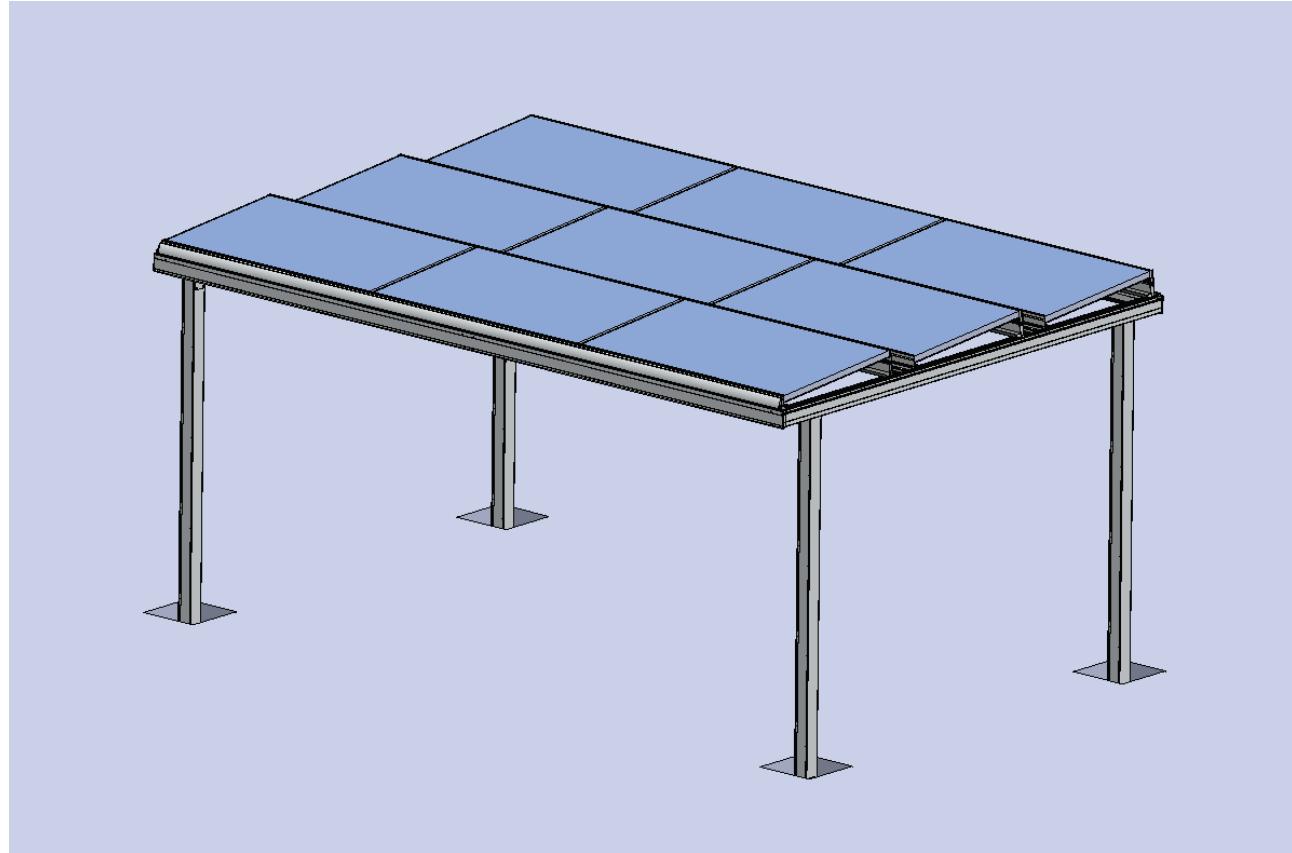
Module fixing



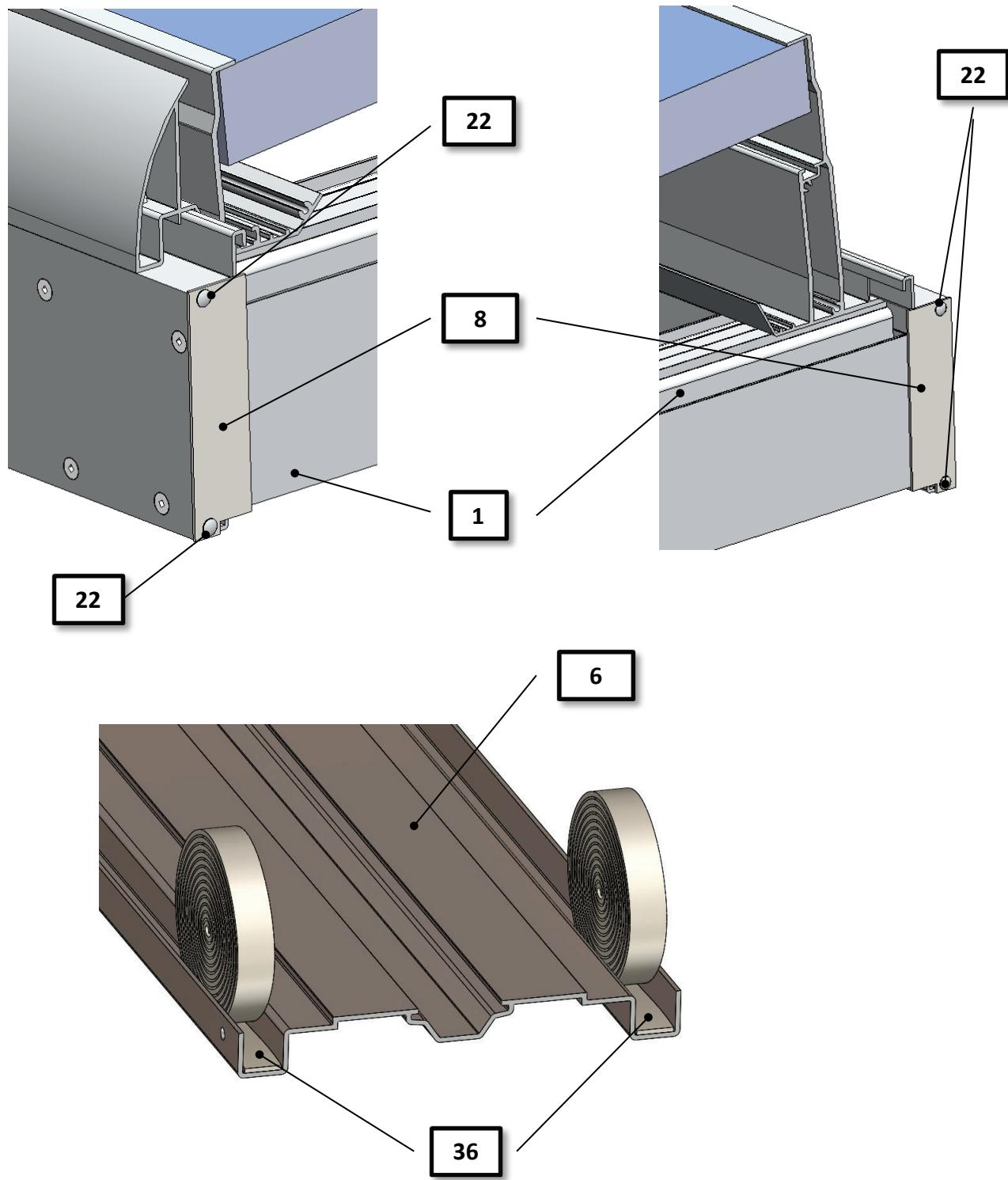
-
- d) Slide the assembly (19), (20), (21) and (5) in the grove.
e) Slide the second module, repeat step a, b, c and d.
f) Once the module are centered and tighten, center and tight (5) against the 2 modules .

2.5

Module fixing



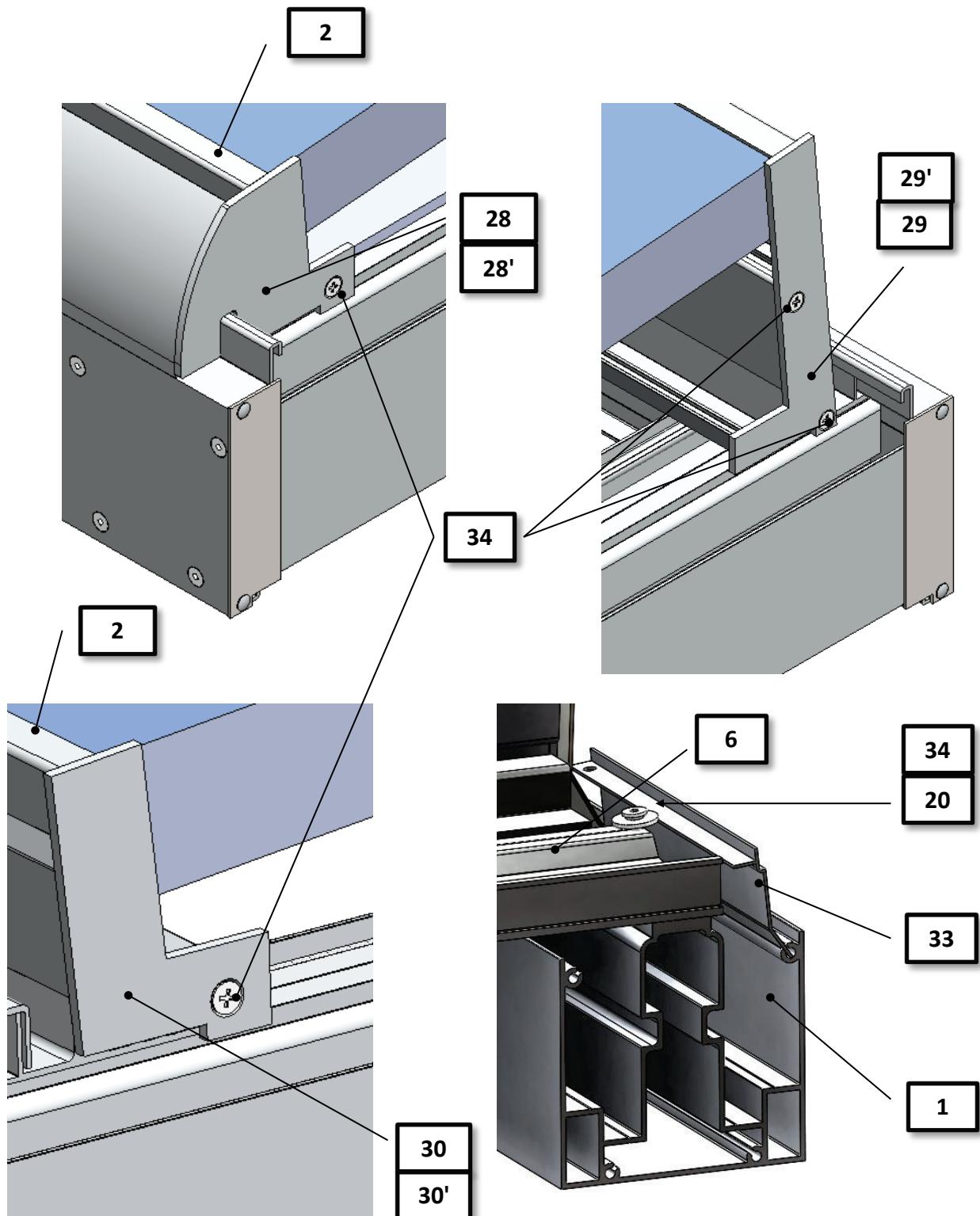
g) Repeat for the other rows of modules of the IRFTS SHADOW SOLAR.

3.1**IRFTS SHADOW SOLAR side covers**

- a) Push (10) against (1), mount (8), using rivets (22) .
- b) Repeat step a for the 4 angles of IRFTS SHADOW GARDEN .
- c) Unroll the joint sealing tape (36) in the profile (6) . The joint sealing tape must be continuous on the full length of the profile.

3.2

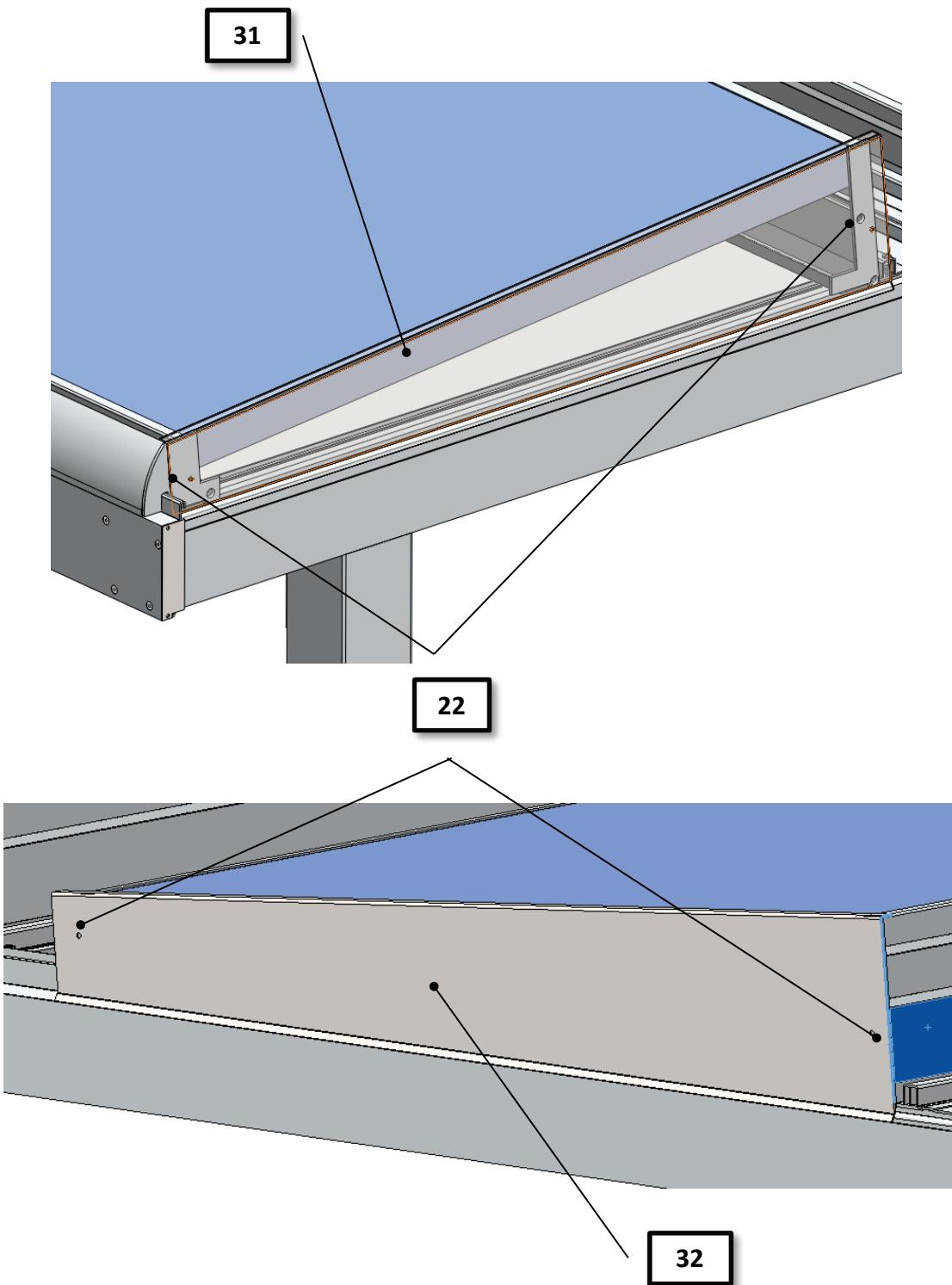
IRFTS SHADOW SOLAR side covers



- a) Screw (28) and (28')using screw (34) and align with (2) .
- b) Screw (29) and (29')using screw (34) .
- c) Screw (30) and (30')using screw (34) and align with (2) .
- d) Screw (33) using screw (34) and align with (6) .

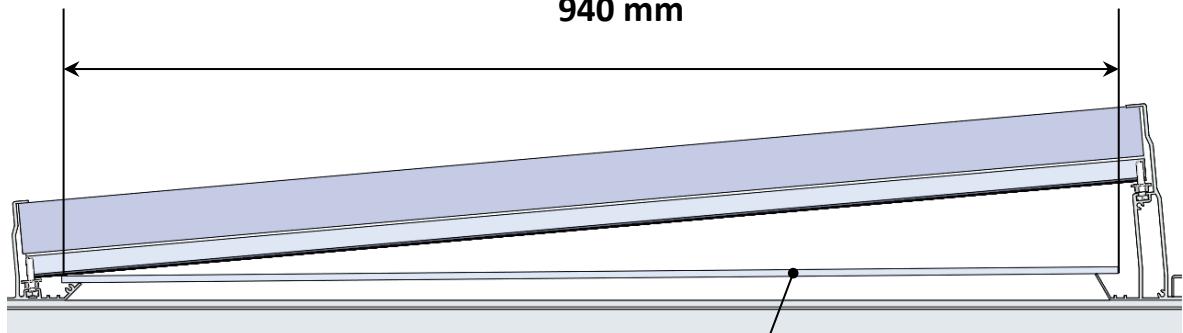
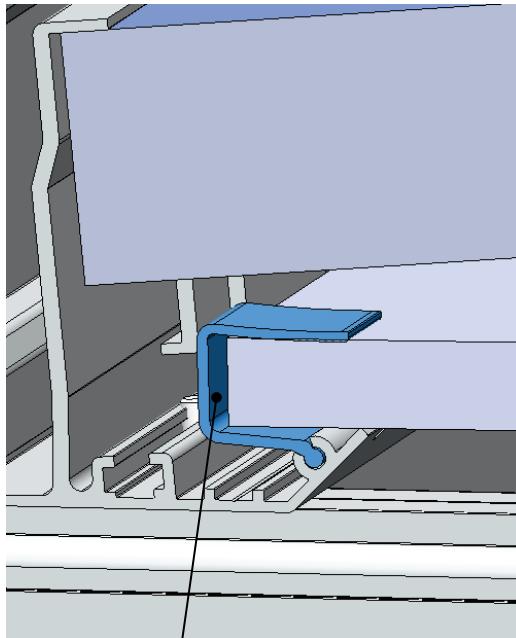
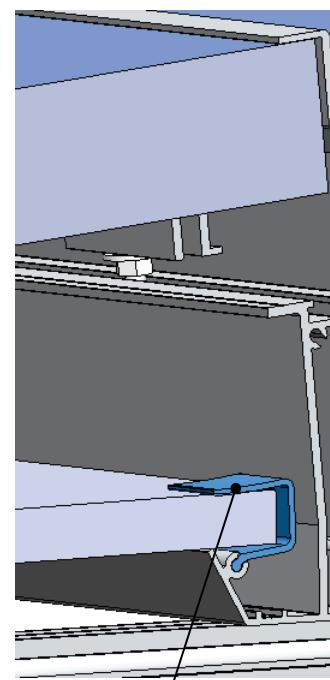
3.2

IRFTS SHADOW SOLAR side covers



on-contractual information and visuals. Subject to technical amendments without notice

- a) Drill with a bit Ø4mm through the existing holes of the side cover (31) and (32), the parts (28)(29) and (30).
- b) Use rivet (22) to fix (31) and (32).

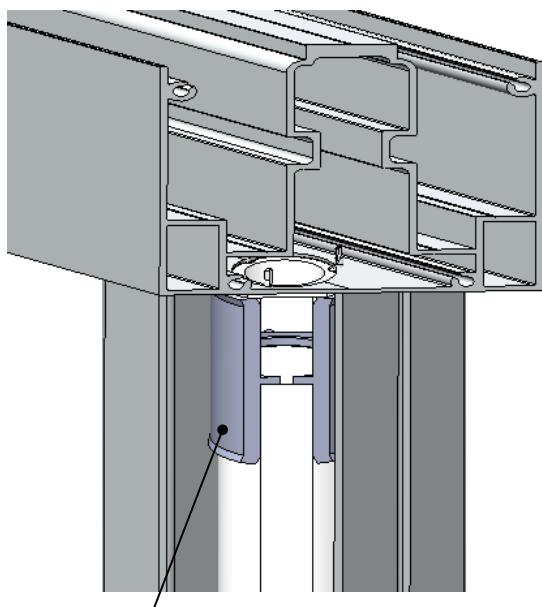
4.1**IRFTS SHADOW SOLAR ceiling****940 mm****Ceiling****or****PRTOP00315AA and X2****PRTOP00316AA and X3****Ceiling hook (35)****Ceiling hook (35)**

	IRFTS SADOW GARDEN configuration			
	4x3	4x2	3x3	2x2
Ceiling length	5026 mm	3350 mm	5026 mm	3350 mm

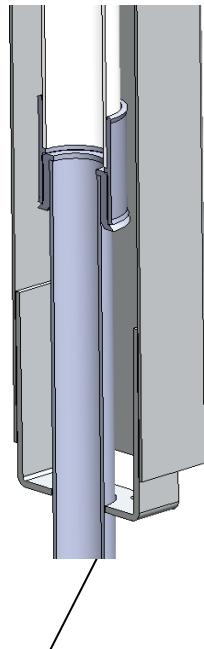
Space equally the ceiling hook (35) to maintain correctly the ceiling.

5.1**Raining water drainage**

« Rigid » drainage with sleeve, pipe and elbow diameter 50 mm



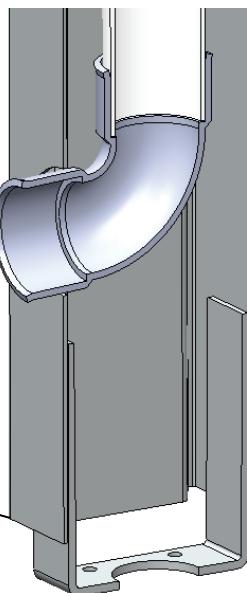
Sleeve D50 FF not provided



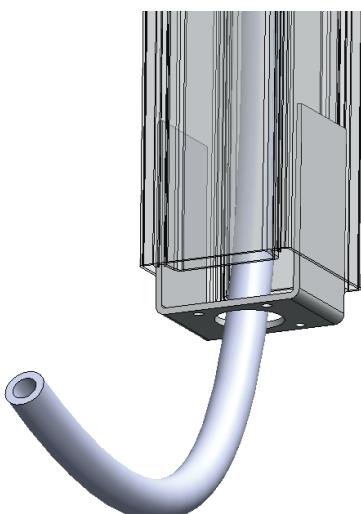
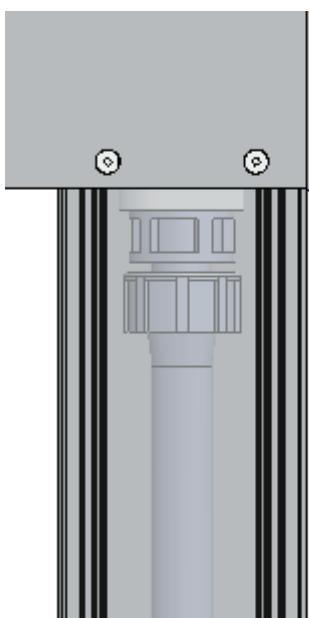
Straight output D40 mm

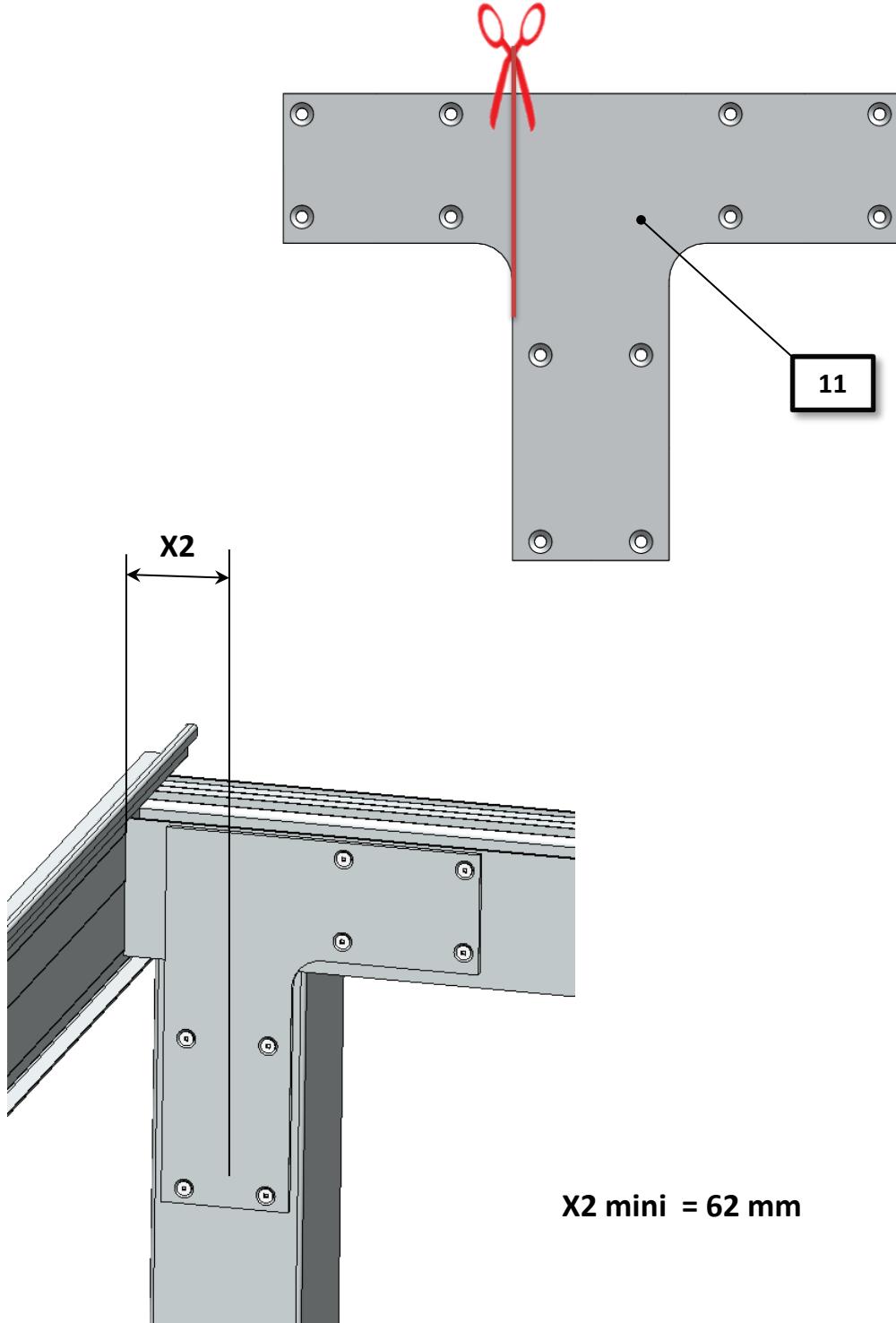
145 mm mini

Elbow output D50 mm maxi



« Flexible» drainage fitting 1" and flexible pipe



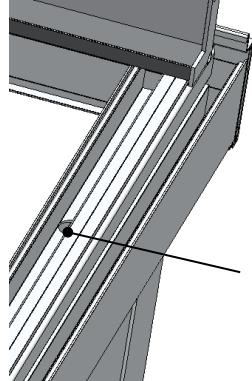
6.1**Dimension X-2 from 62mm to 170 mm**

- a) Cut the T square plate (11) in order to be align with the inner face (paint needed to protect the cut) .
 b) Dimension X2 of the mounting tool may then vary from 62 mm to 170 mm .

7.1

Cable passage way

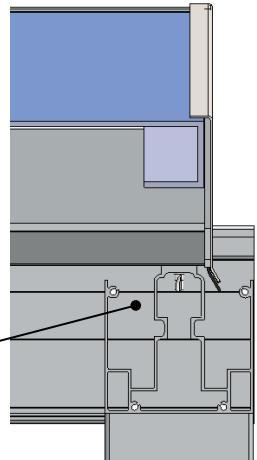
Passage way line to line or through the foot

**Dry area in the Gutter**

**Drill in the dry area
of the gutter**

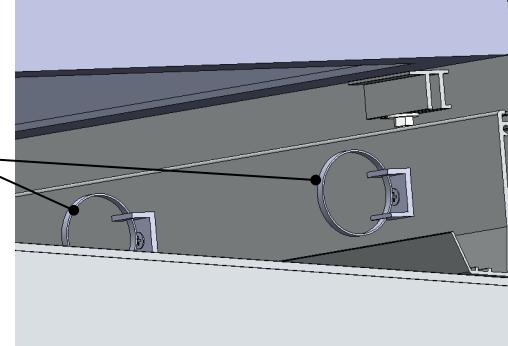
**Foot output**

Passage way line to line in dry area



Passage way column to column

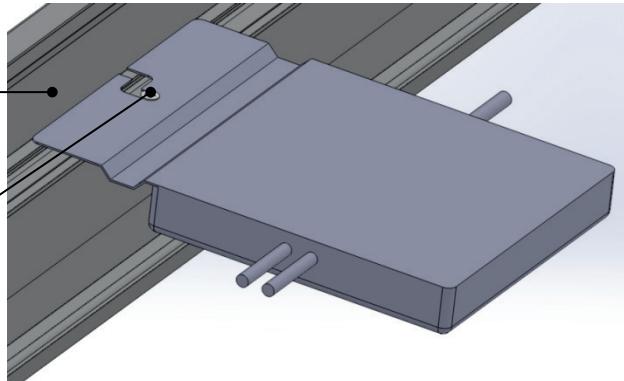
Tie wrap



7.2

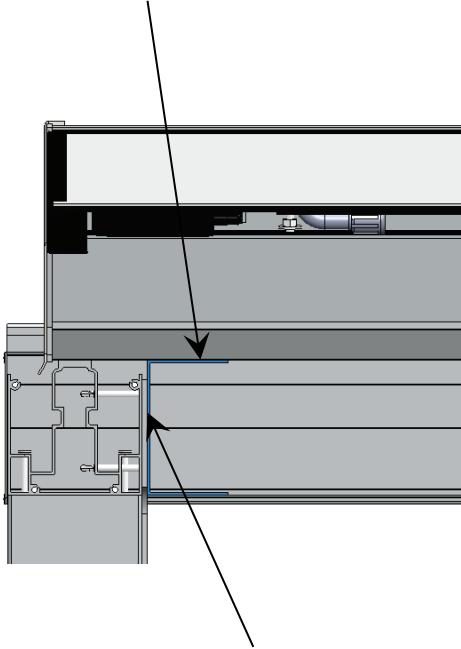
Micro inverter fixing

3
Self drilling screw



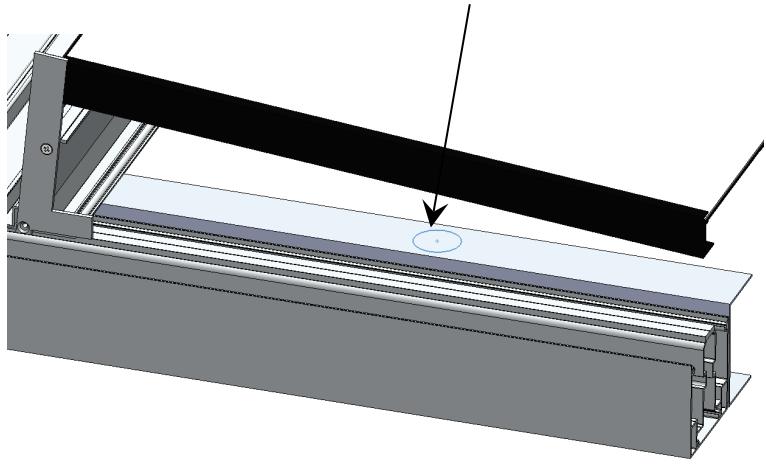
Annex 1 : With DUALSUN hybrid panel

Fix a cable duct so the heat pipe can fit in (max height 100mm), choose a color that match with the IRFTS Shadow Solar .

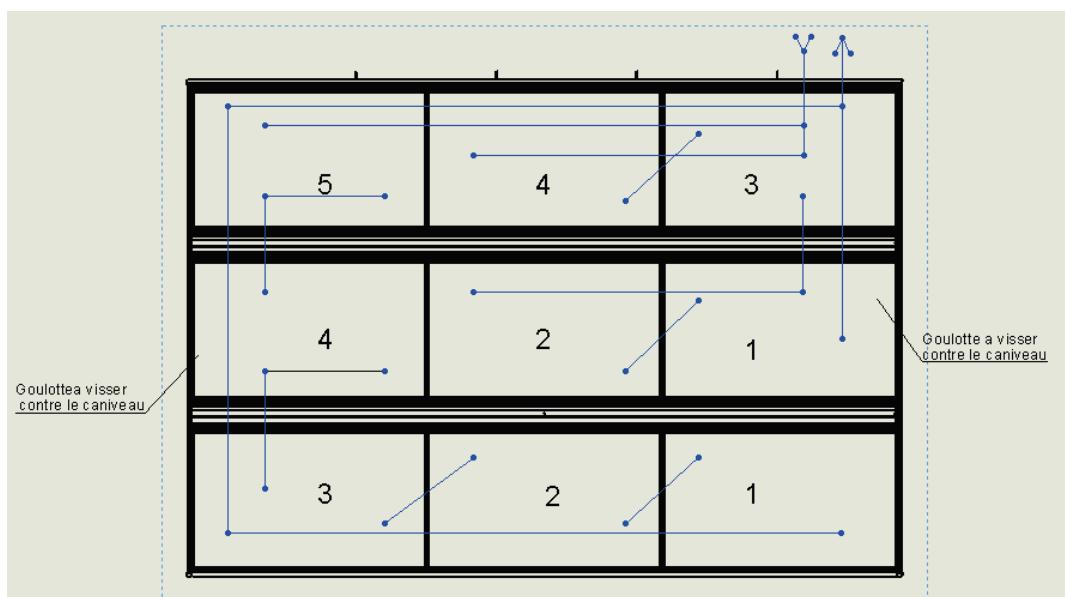


Do not drill under the middle height of the gutter.

Cut the cable duct for the passage of the heat pipe. If you have a ceiling cut also the ceiling

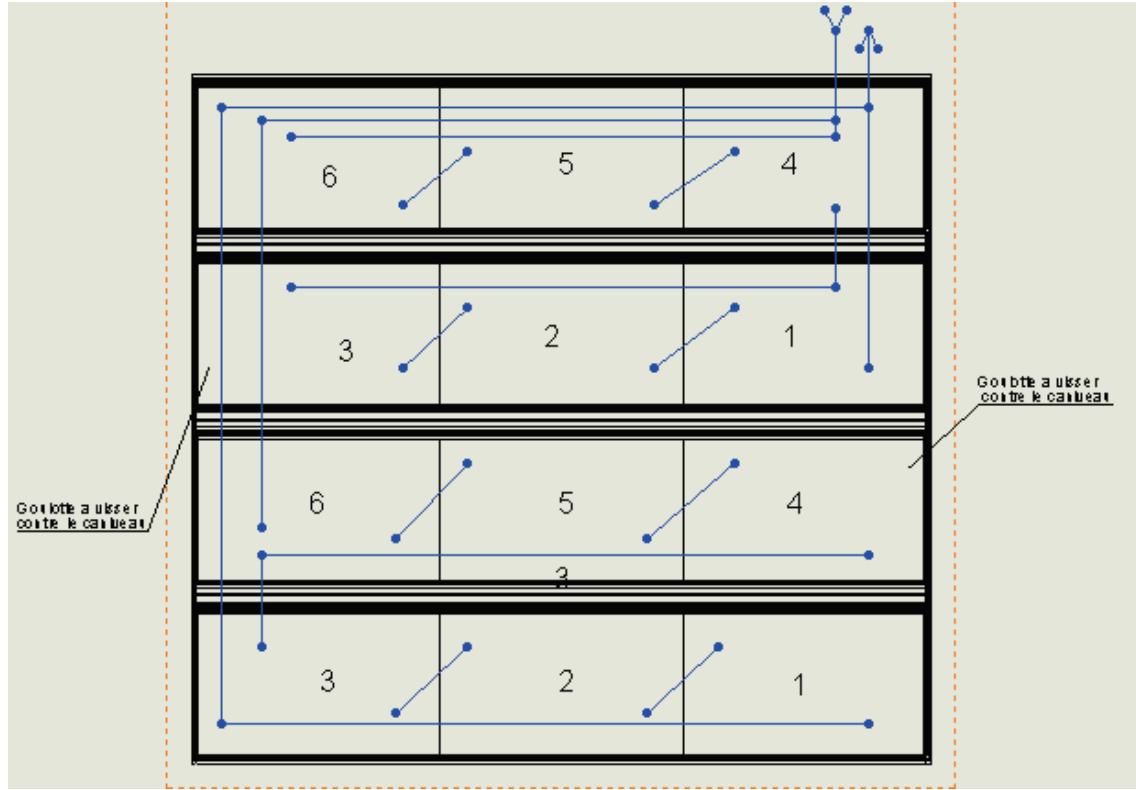


Heat pipe passageway according to the different format of IRFTS Shadow Solar
Format 3x3

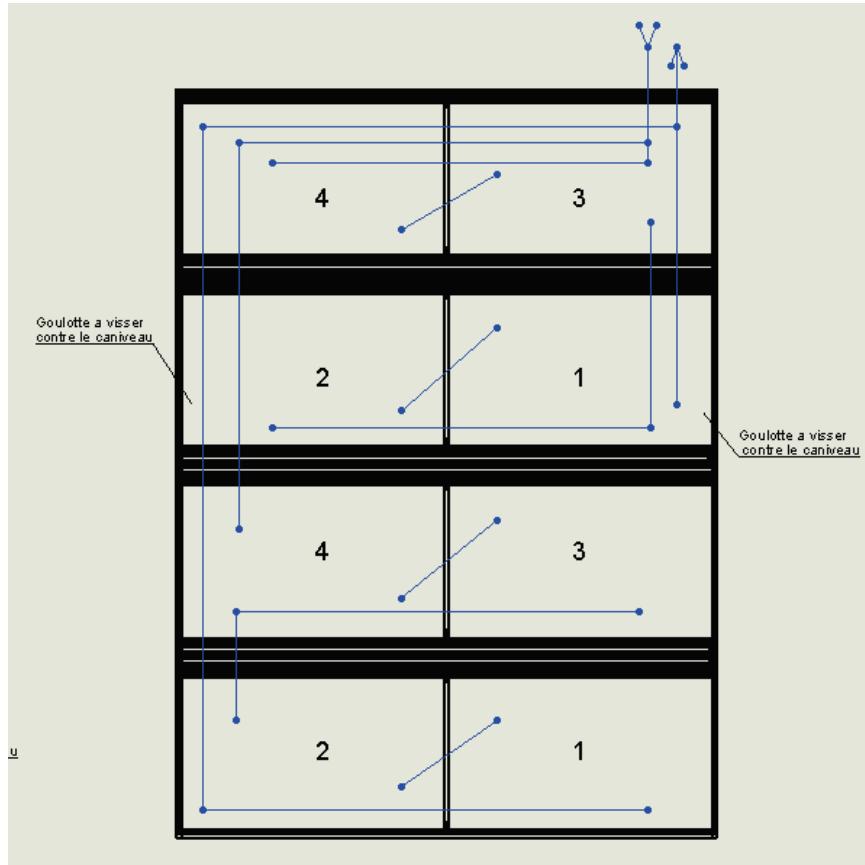


Annex 1 : With DUALSUN hybrid panel

Format 4x3

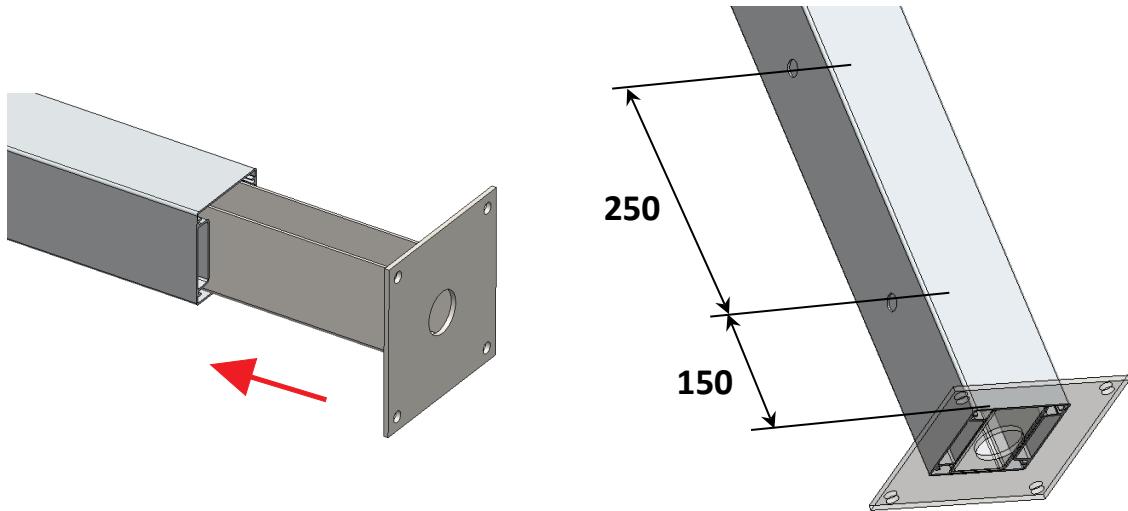


Format 4x2

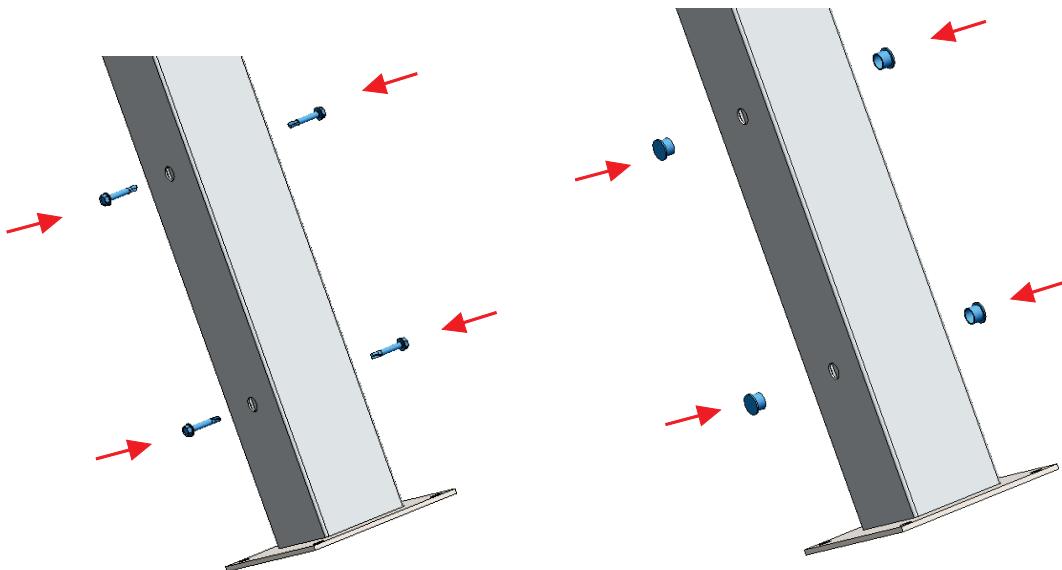


Annex 2 : Installation with Feet Base option

Slide the Feet Base in the feet, drill 4 holes D16 in the first wall on each side of the feet.



Assemble the feet and the Feet Base using the screws provided with the feet base. Put the cover s



Anchor the Feet Base using the appropriate fixing method according to the material on which it wil be installed, minimum uplift strength of 2900N per feet base.

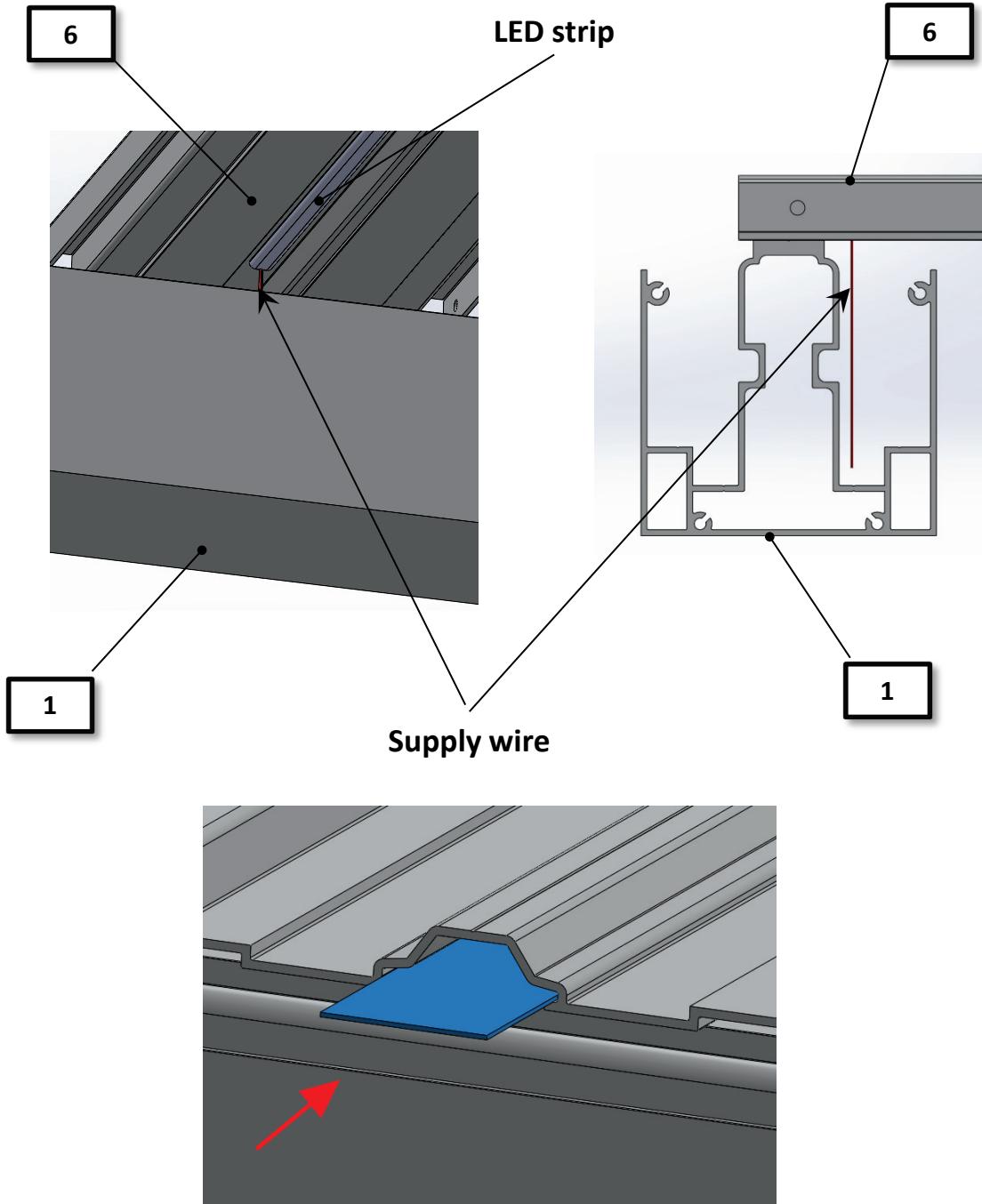
Kit reference : ASMOP00382AA

Part's name	Reference	Number/kit	Total weight
Feet base	PRTOP00173AA	2	8
Screw 6,3x19	V062V02	10	
Feet base cover Black	V063V02N	10	
Feet base cover White	V063V02B	10	

Annex 3 : LED option

Put the self adhesive LED strip in (6), leave the supply wire in dry area in the gutter (1).

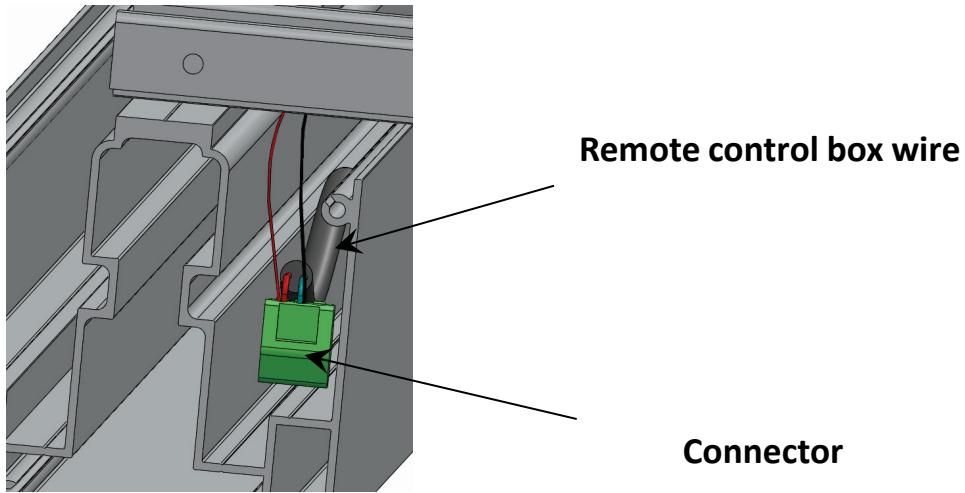
**Unroll the strip => 2X2 & 4X2 : on the full length of the profile (6)
3X3 & 4X3 : up to the middle gutter (1).**



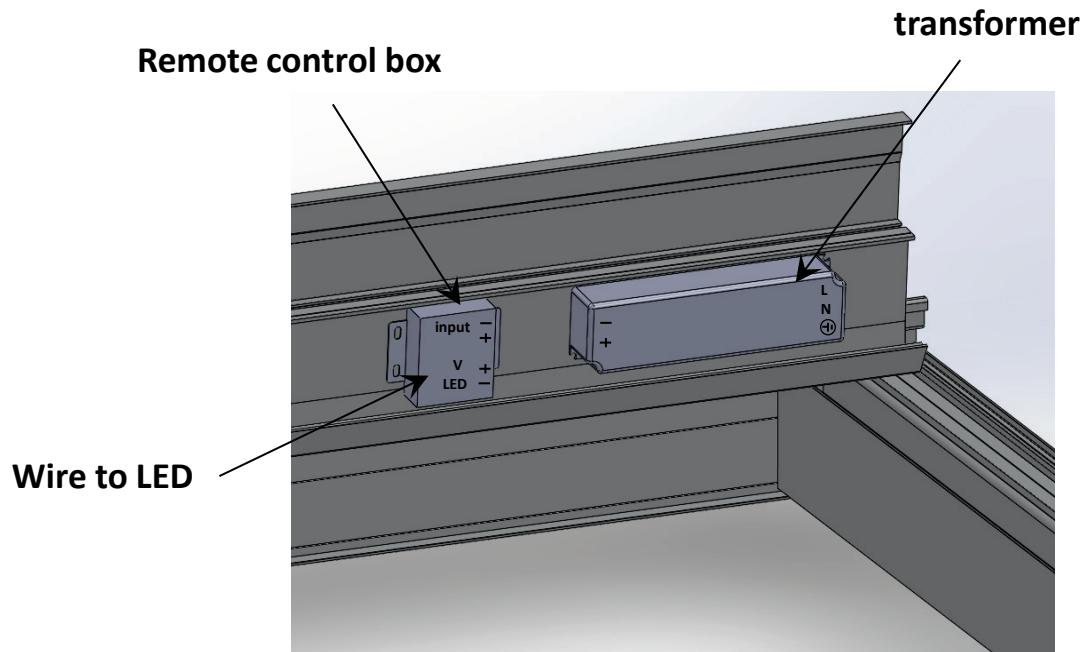
Slide the PMMA strip up to the center of (1)

Annex 3 : LED option

Using the connectors and the wire supplied, connect the remote control box



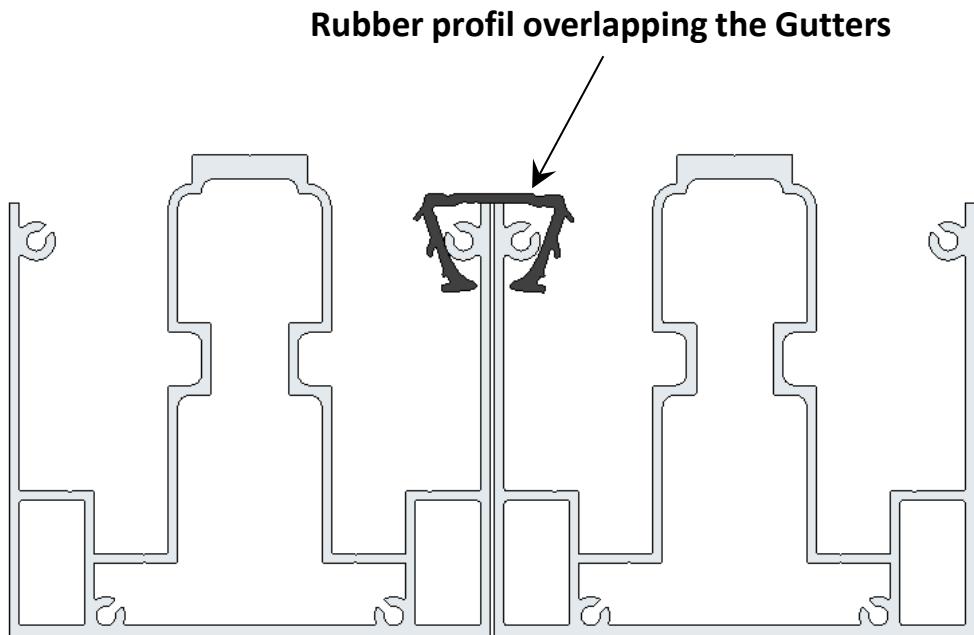
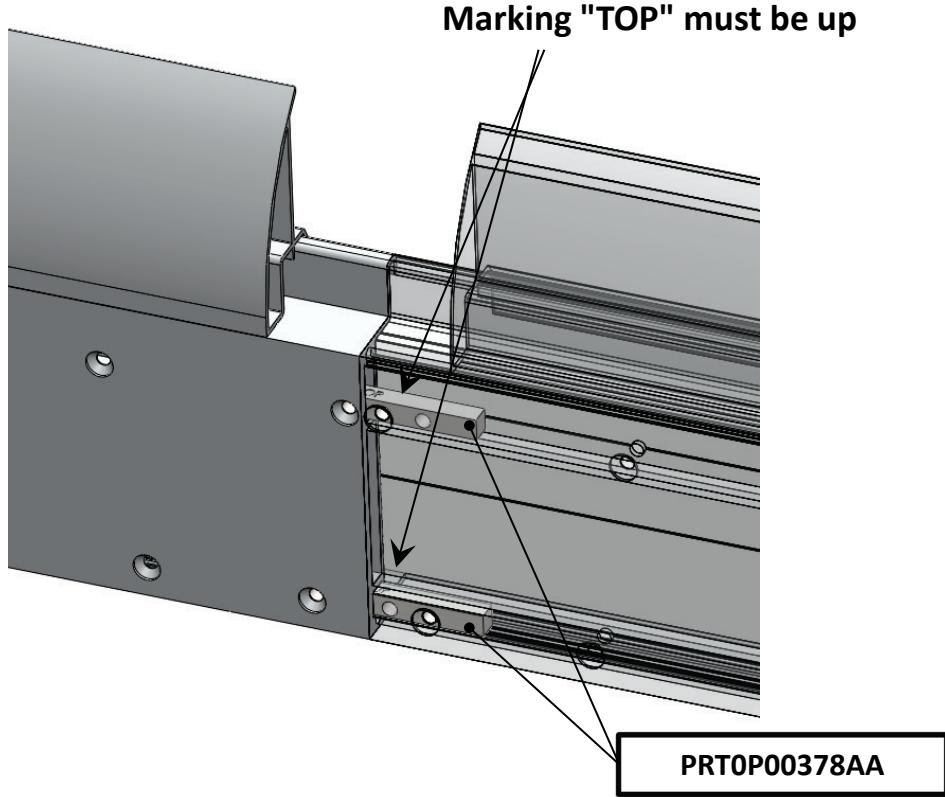
Fix the remote control box and the transformer on the last profile.



Connect the transformer to a power supply using an appropriate wire.

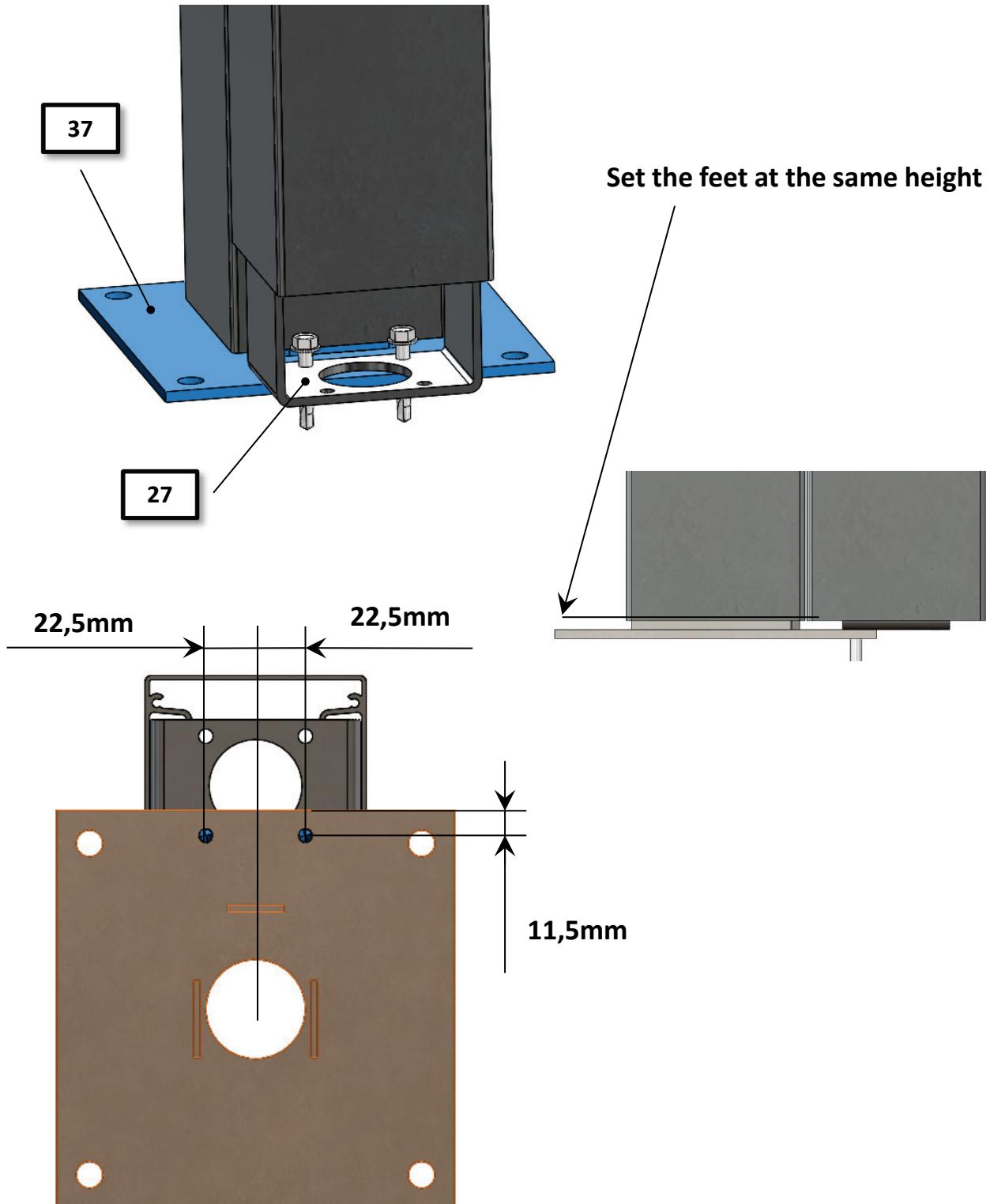
Kit reference : ASMOP00377AA

Annex 4 : Assembly side by side



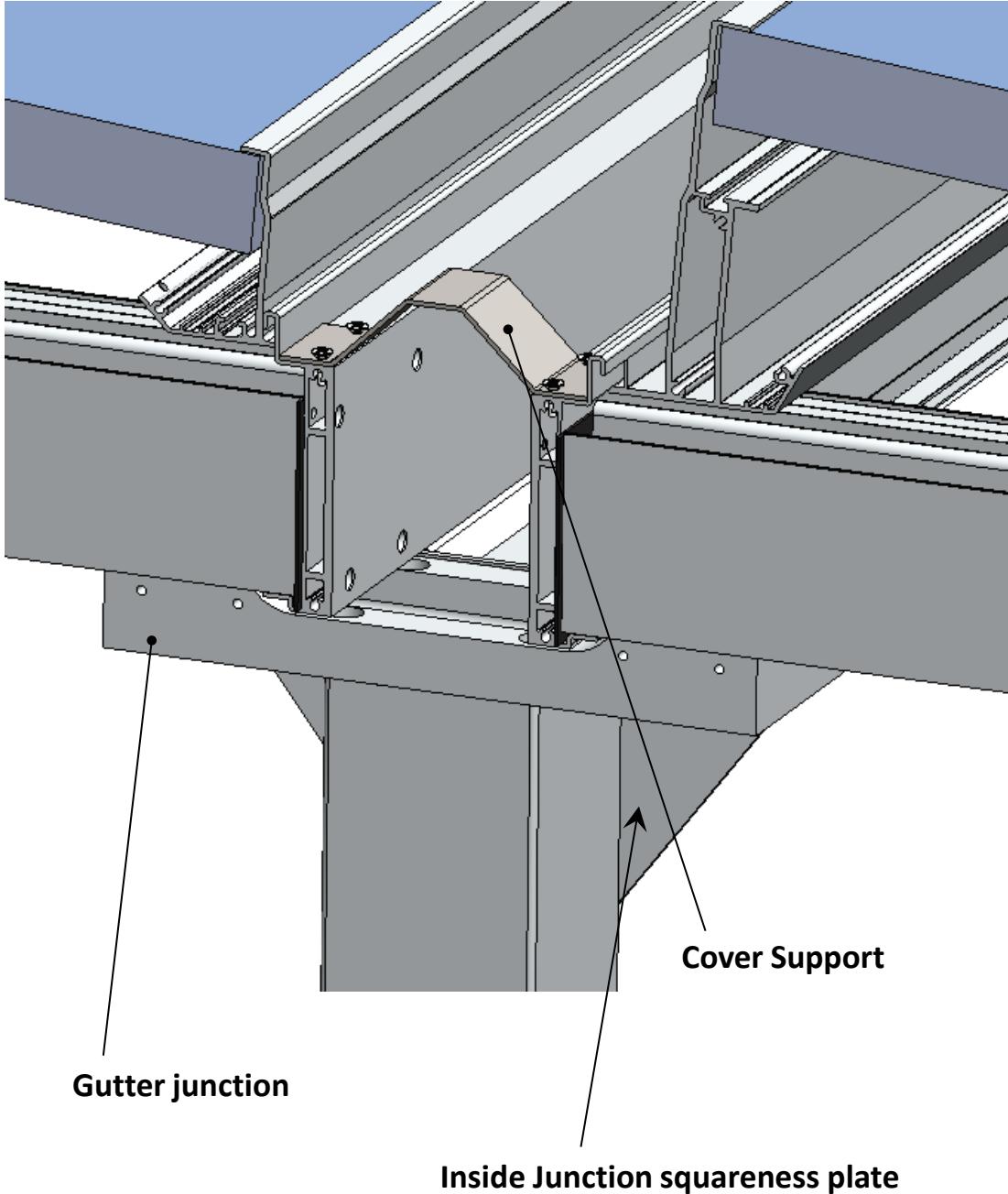
**For a side by side assembly, place the splint between (4) and (4) or (9) and (9), then put the screw to assemble (1) and (4) or (9).
Put the rubber profile in order to overlap both gutters.**

Annex 4 : Assembly side by side



**When using the Feet base (37) use (27) to be fixed on (37)
Pre-drill (37) with a 4mm bit at the given dimension, fix (27) using the
screws provided with (37).
Set both feet at the same height.**

Annex 5 : Assembly in depth



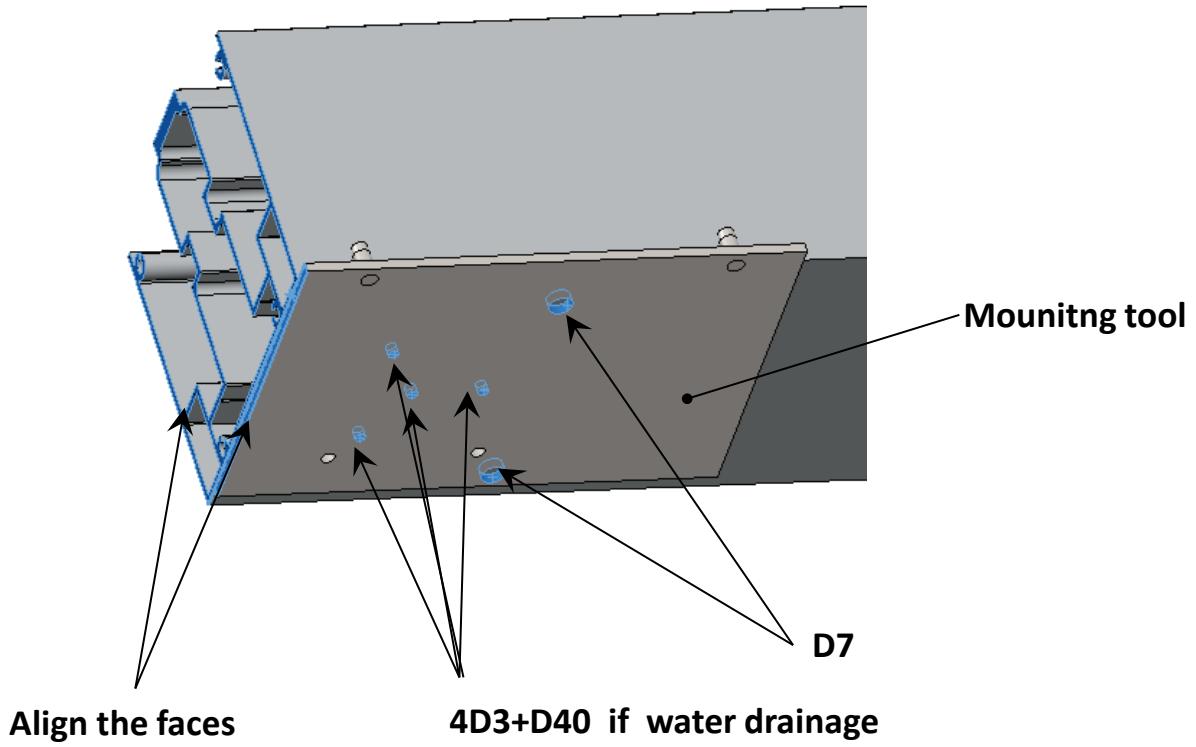
When assembled in depth, the SHADOW SOLAR are connected by the "Gutter junction".

This part keep the shed step and collect the drainage water into one single foot.

Kit reference :

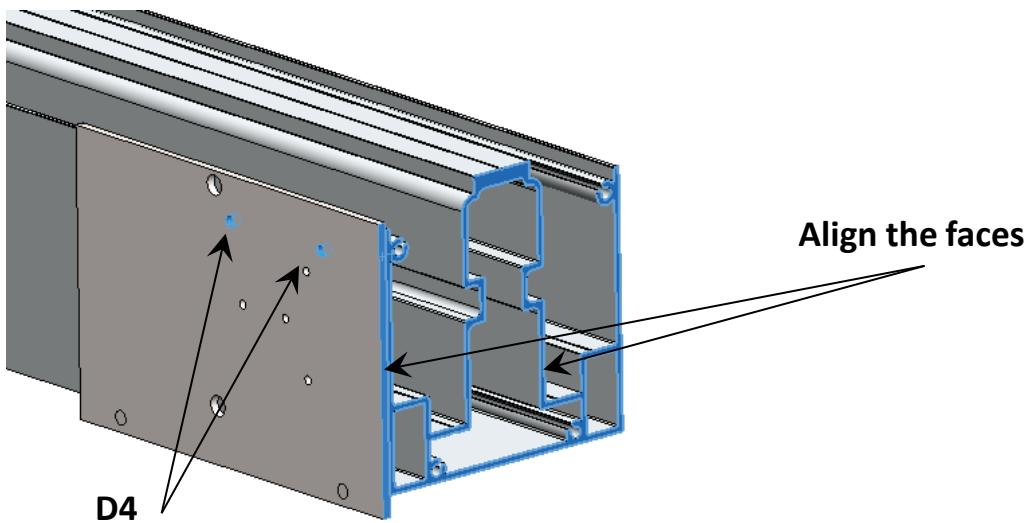
**SHAS7101A7016 or 9010 en X2
SHAS7111A7016 or 9010 en X3
+ SHAS7121A7016 or 9010**

Annex 5 : Assembly in depth



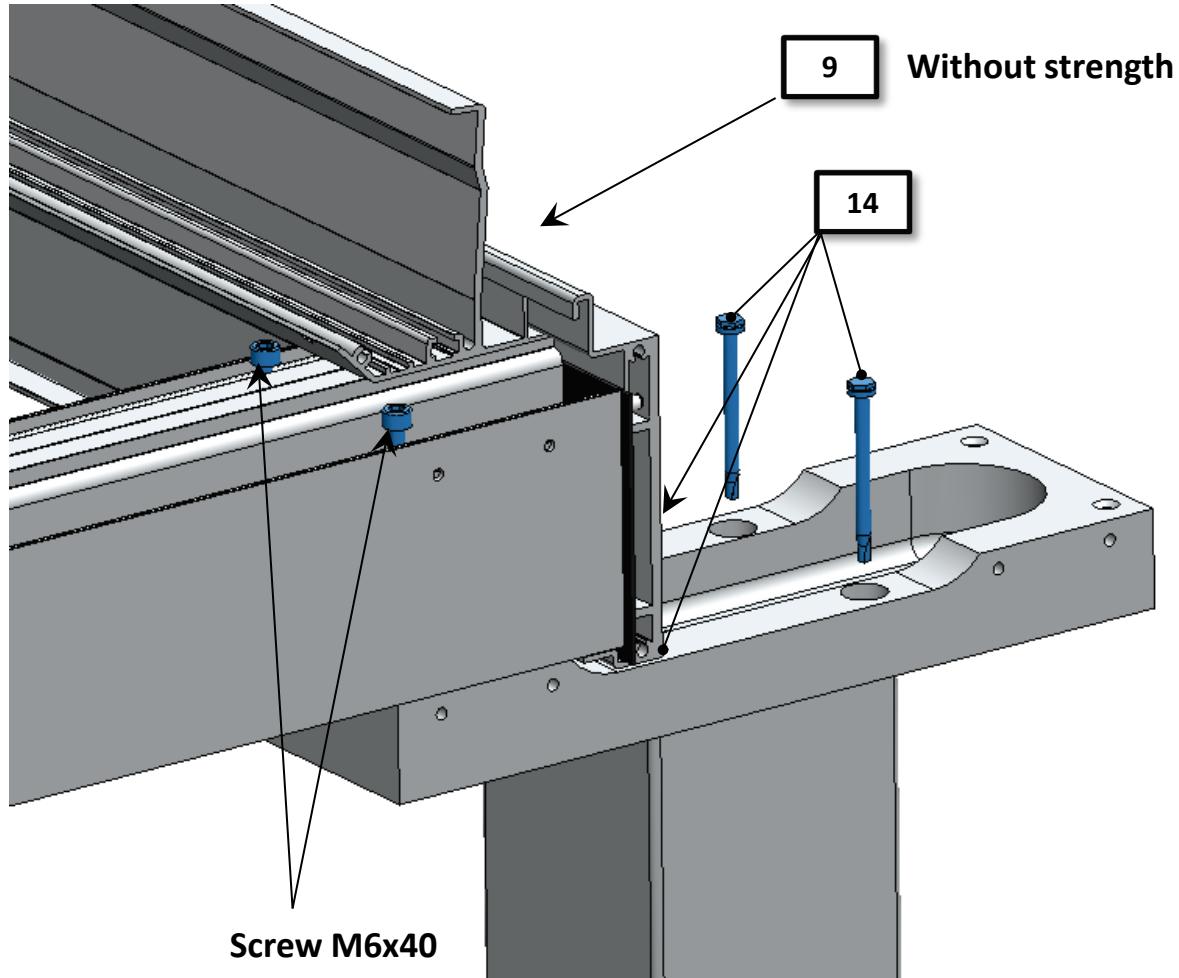
Using the mounting tool, drill 7mm holes so the screws 6x40 to fix the "Gutter junction" can go through.

If water drainage , see page 12 to screw (10) , (12) and (17) .

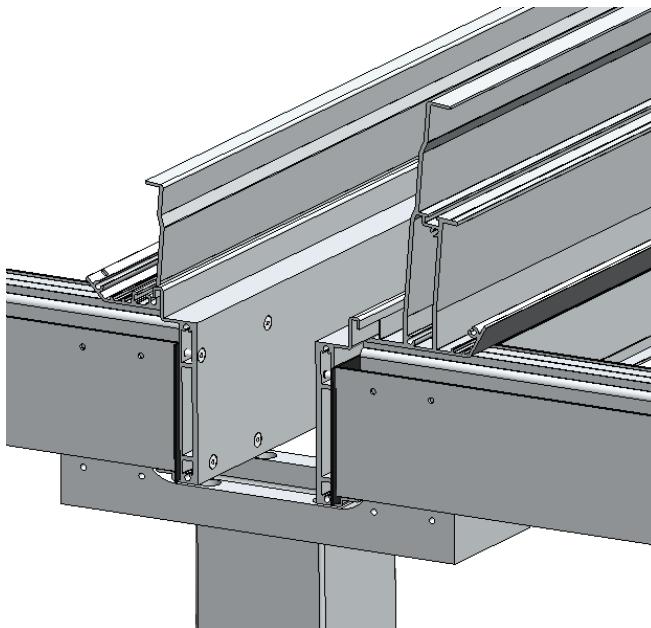


Using the mounting tool, drill 4mm holes so the "junction squareness plates" can be fixed, repeat on the other side of the gutter.

Annex 5 : Assembly in depth



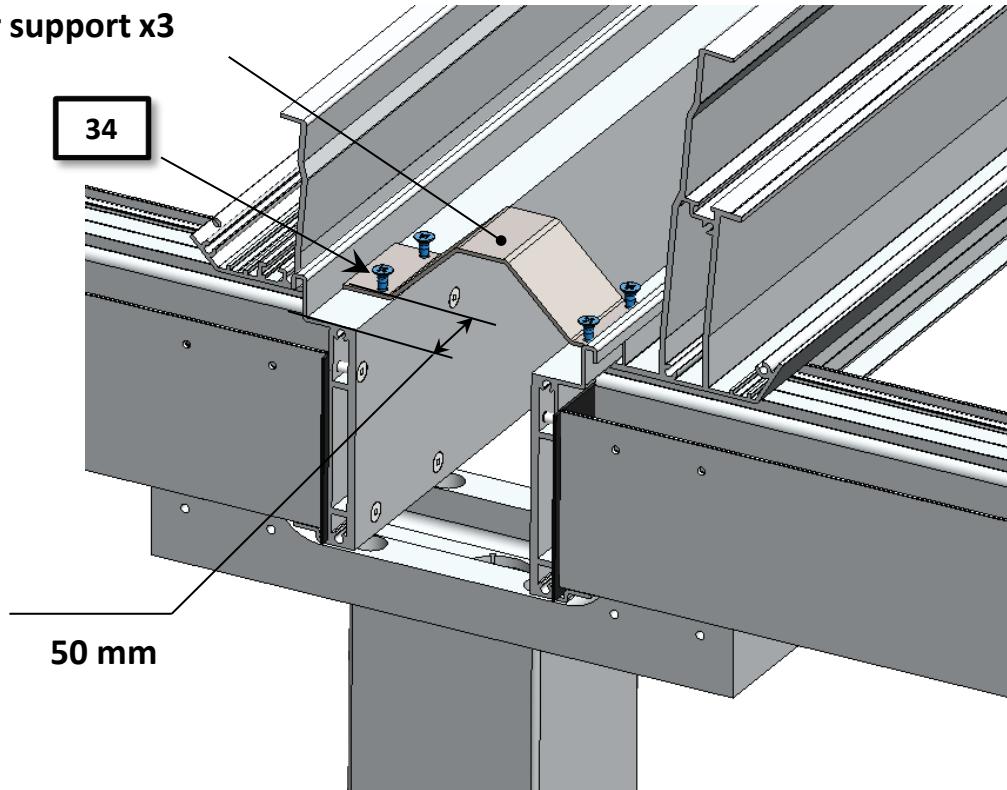
Assemble the SHADOW SOLAR normally, you just have the "Gutter junction" added. If needed remove the front spoiler strength.



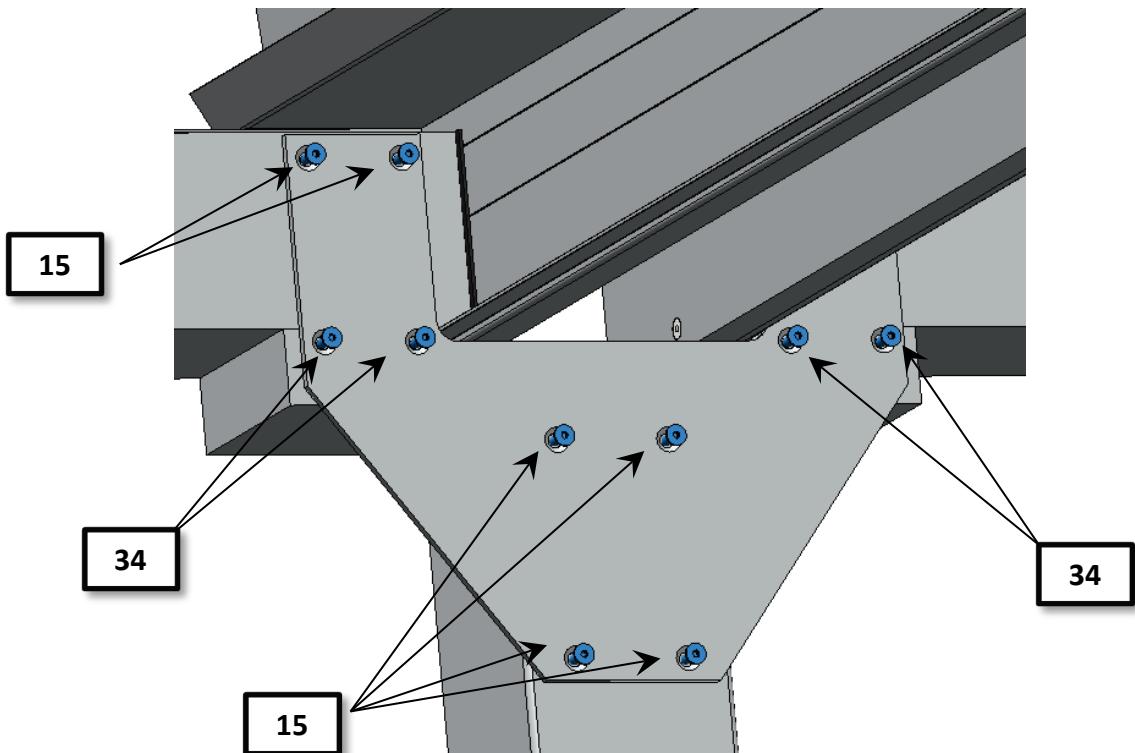
Fix the second SHADOW SOLAR on the "Gutter junction".

Annex 5 : Assembly in depth

Cover support x3

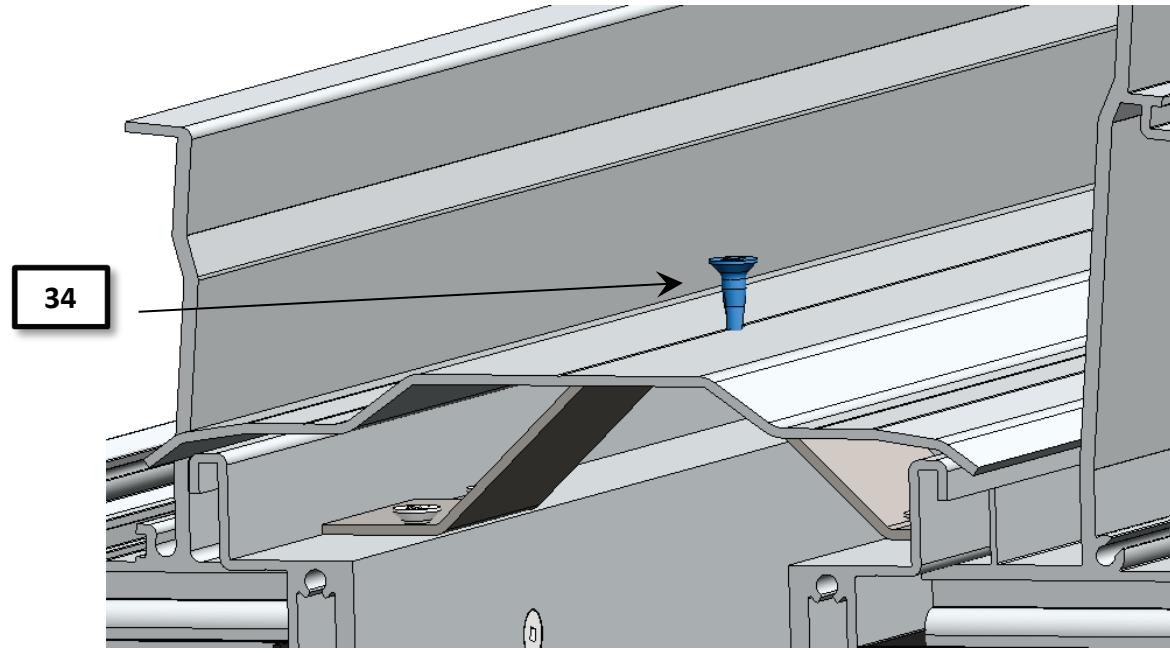


Place the 3 cover support (one at each end and the other at the center), drill diameter 4mm and screw with (34) .

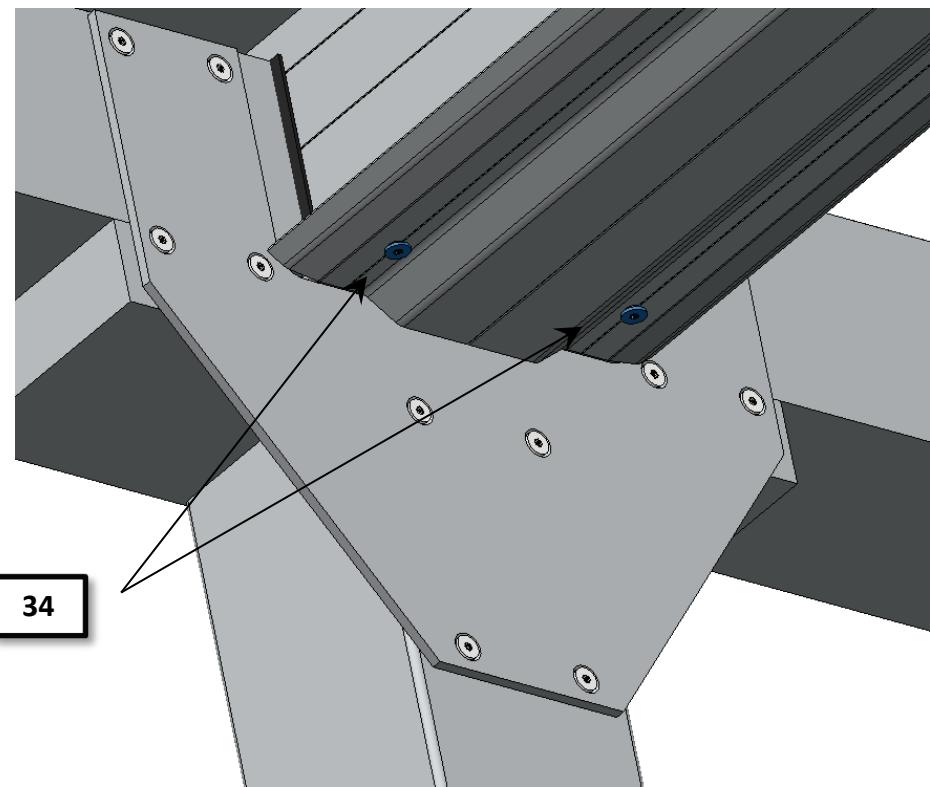


Screw the "inside junction squareness plates" using screws (15) and (34)

Annex 5 : Assembly in depth

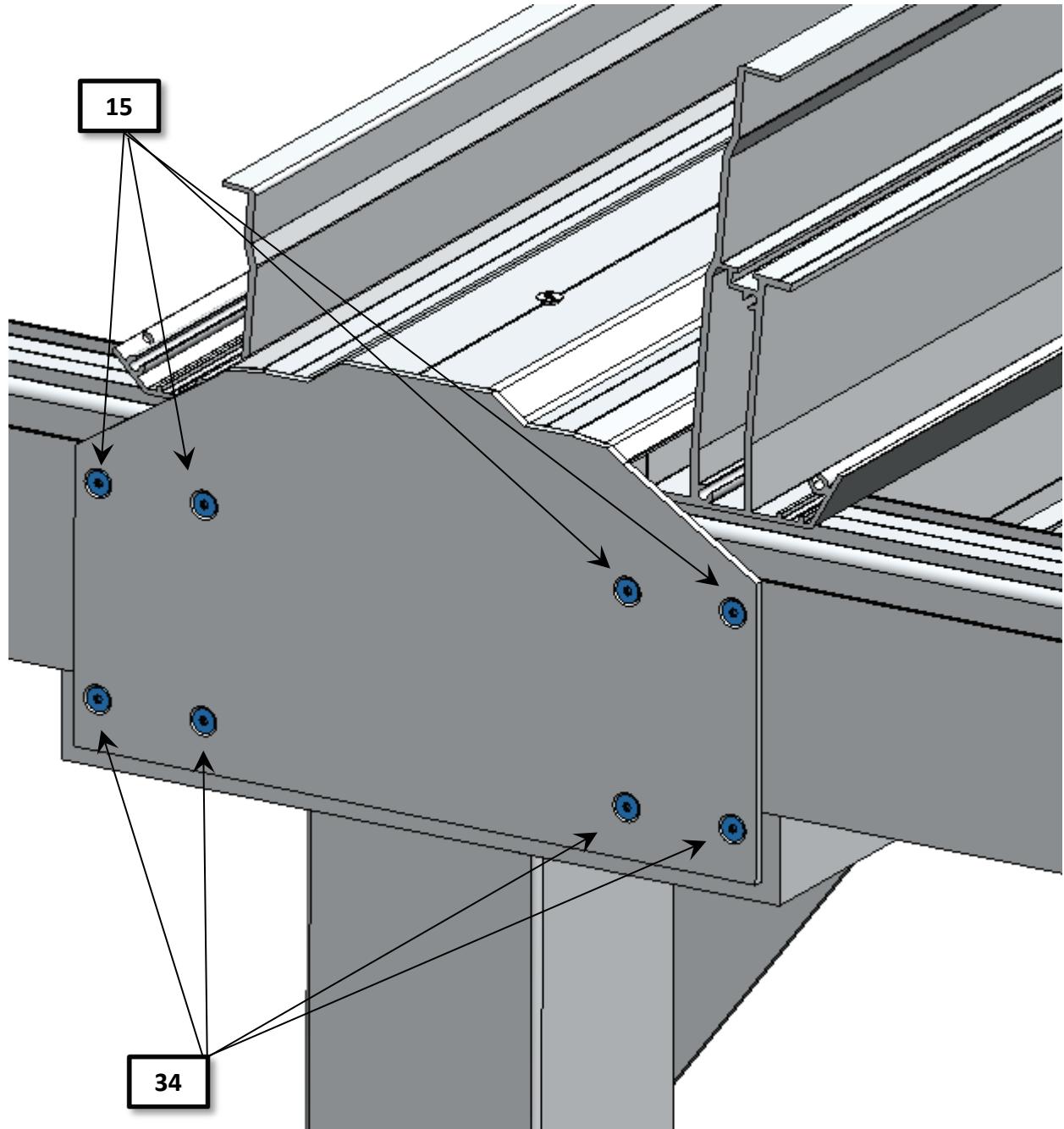


Place the top cover and drill 4mm holes above each cover support, then screw using (34) .



Place the bottom cover and drill 4mm holes above each cover support, then screw using (34) .

Annex 5 : Assembly in depth



Place the “outside junction squareness” plate and screw using (34) et (15).