System
with no
seals,
5 Patents



Version 1.0 du 12/05/11

Innovation Pass "Green Light" n° 2010-07

Eligible for CEIAB 2011-2012 accreditation

The Easy-Roof system is insured if the module received the IEC 61215

and IEC 61730 agreements

Industry, Private Individuals, Agriculture





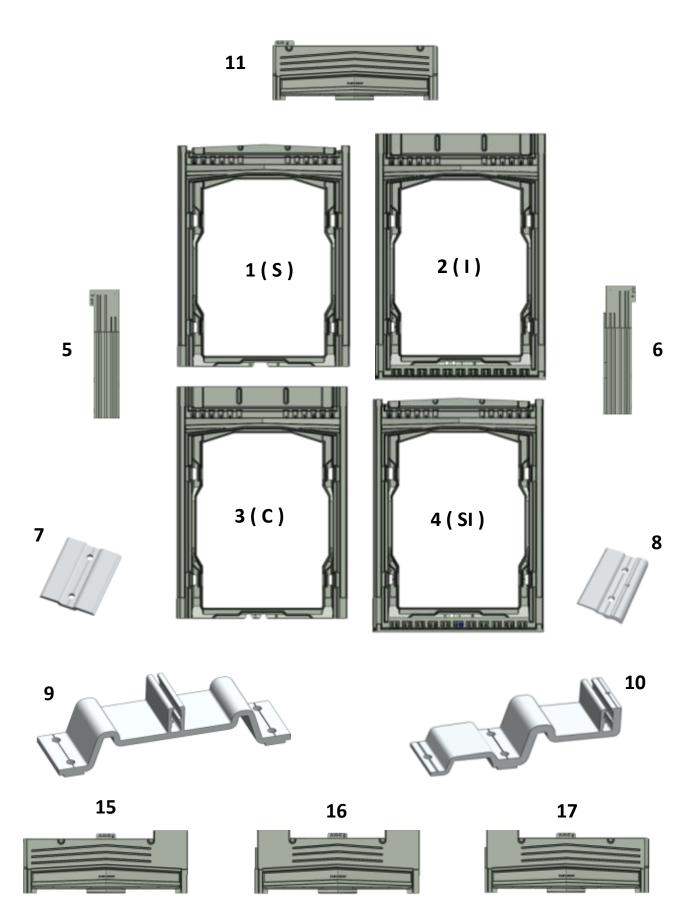
Distributor 's stamp

Data sheet for Easy-Roof for built-in integration of system IRFTS

Parts provided in the kit				
Number	Designation			
1	Superior frame panel Mark (S)			
2	Inferior frame panel Mark (I)			
3	Central frame panel Mark (C)			
4	Inferior superior frame panel Mark(SI)			
5	Left flashing			
6	Right flashing			
7	Double fixing flange			
8	Simple fixing flange			
9	Double clamp			
10	Simple clamp			
11	Top flashing			
12	Stainless-steel rounded end screw 6x40			
13	Stainless-steel hexagon screw 5x35 stainless-steel			
14	Stainless-steel square nut			
Optionnal Parts				
15	Top Left flashing (assembling in L)			
16	Top central flashing (assembling in H)			
17	Top right flashing (assembling in L)			

Parts not provided in the kit			
Number	Designation		
а	Counter sunk head screw six lobes 5x60 stainless-steel (wood)		
b	Verge		
С	Wood 180x18 (verge)		
d	Wood 100x27 (support panel, length see page 10)		
f	Wood 40x13,5		
g	Wood 60x18		
h	Stainless-steel rounded end screw six lobes 5x30 (flashing)		

Représentation des pièces



Film under the roof

From a 40 degrees slope, we require the use of a film under the roof before fixing the Easy roof integration system. This under roof film must comply with regulations. Under 40 degrees please refer to roofing regulations

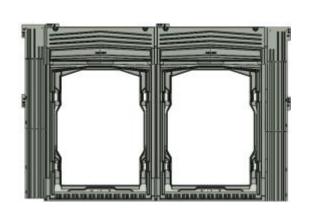
GLOSSARY

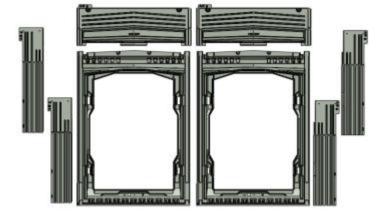
Marking of moulded parts – capital letters	Definition	
1	(I)nferior frame	
С	(C)entral frame	
S	(S)uperior frame	
SI	(S)uperior and (I)nferior frame	
A-D	Right flashing	
A-G	Left flashing	
A-H	Top fasling	
A-H-D	Top right flashing	
A-H-G	Top left flashing	
A-H-C	Top central flashing	

Marking of moulded parts – small letters	assembling	Definition
a	Portrait	size frame 1580 x 808
b	Portrait	size frame 1650 x 993
С	Portrait	size frame 1351 x 1001
d	Portrait	size frame 1676 x 1001
f	landscape	size frame 1580 x 808
g	Portrait	size frame 1257 x 997



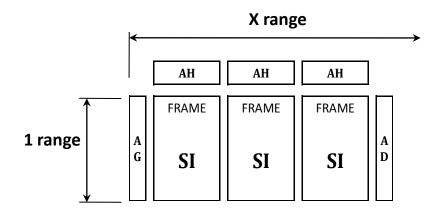
2 lateral flashings by frame height

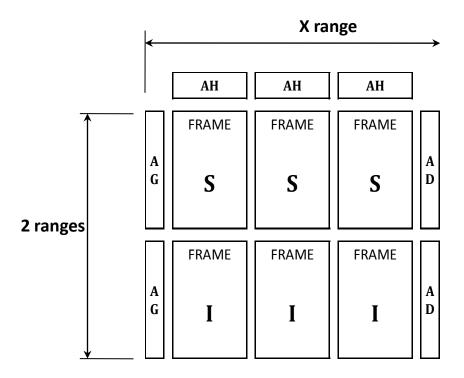




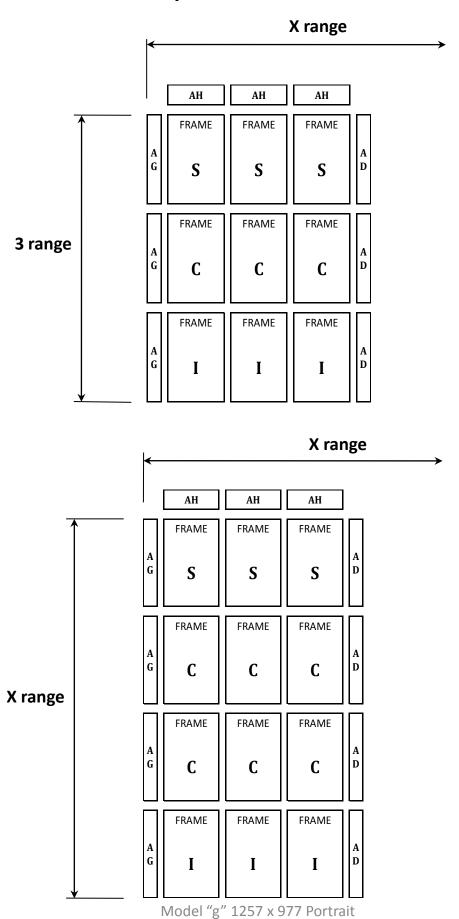
(exploded view)

Using different frames according to the configuration of the photovoltaic field

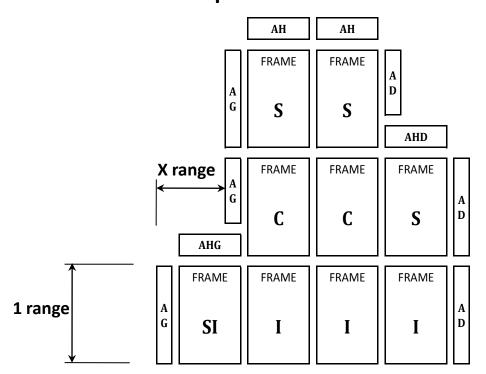




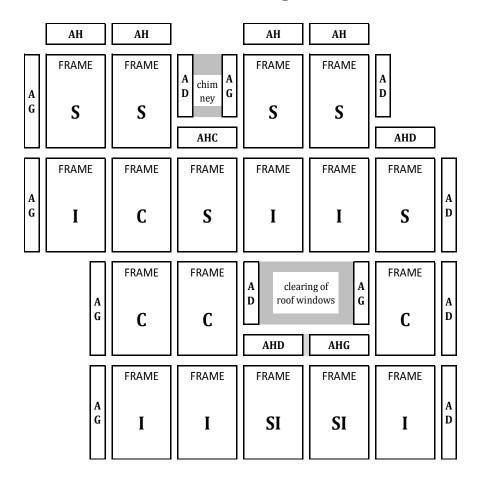
Using different frames according to the configuration of the photovoltaic field



Using different frames according to the configuration of the photovoltaic field

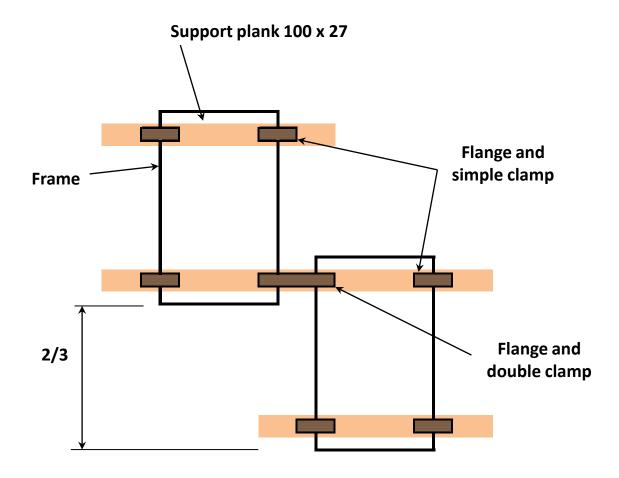


Multiple combination for the clearing of roof windows, or chimney

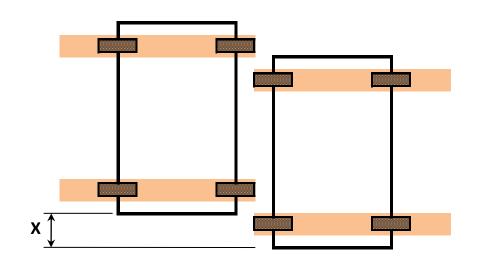


Possible shift from modules in vertical position

Constant shift

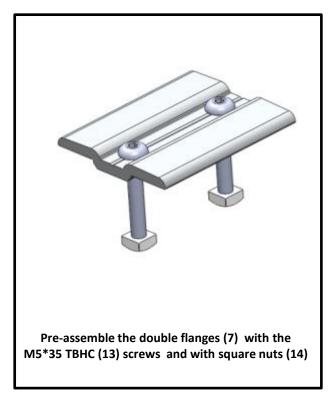


Variable shift

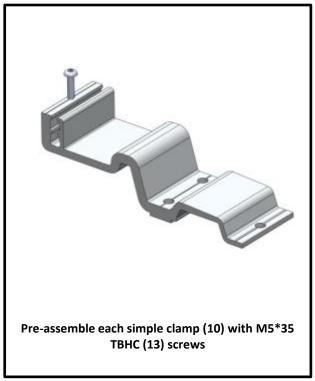


Parts to prepare before assembling the kit

1) flange preparation

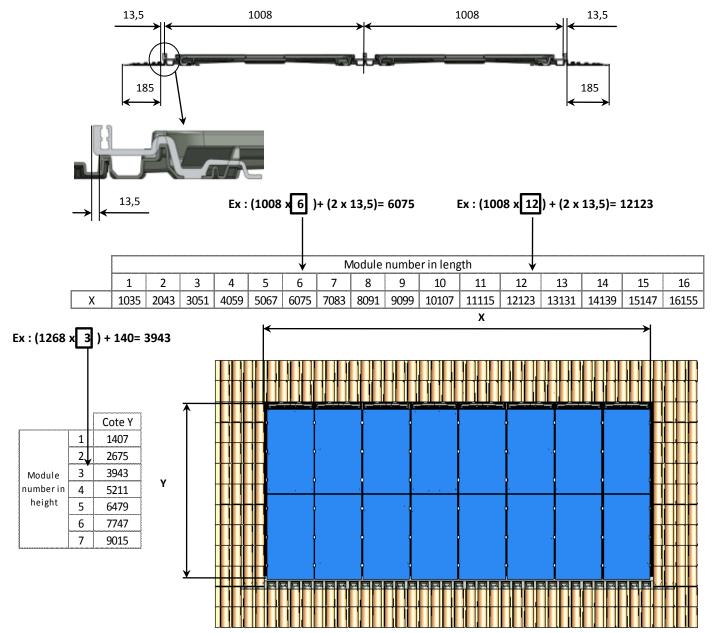




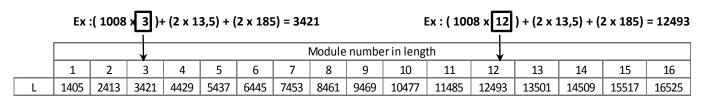


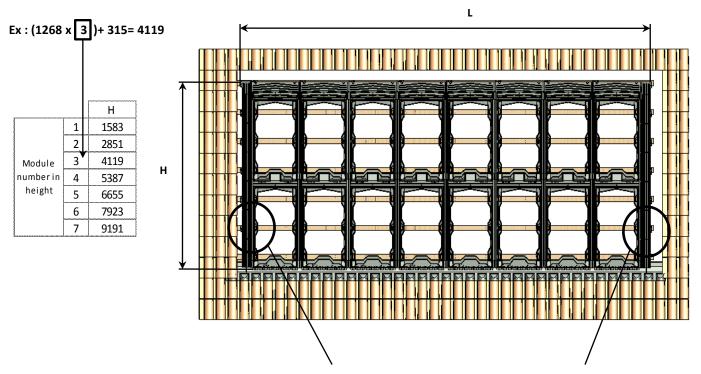
Dimension of the photovoltaic field Visible part of installation

Dimension Features of photovoltaic field				
Nby Number of modules in the rake direction				
Nbx number of modules perpendicular to the rake				
Height of the field (mm)	(1268*Nby)+140			
Width of the field (mm)	(1008*Nbx)+(2 x 13,5)			



Dimension of the Easy - Roof system

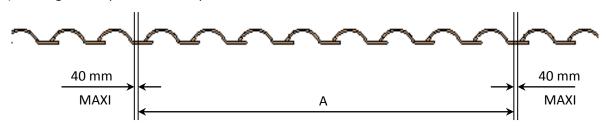




The length of the wood 100x27 is the same as the measurement L + sufficient length on each side for being in support on the rafters exterior to the frame

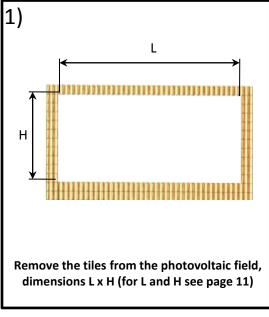
Position of the field on the roof

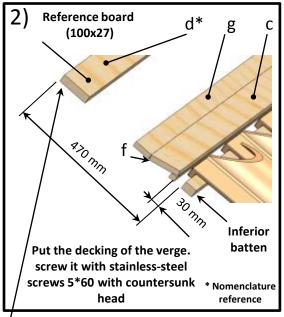
1) Looking for the position of the photovoltaic field

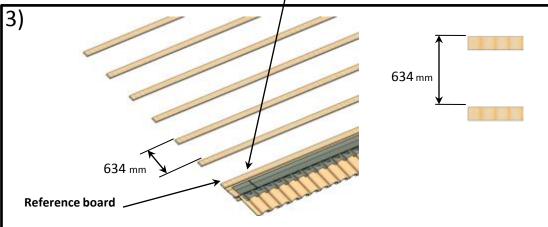


The measurement A should be positioned on the concave part of the tiles.

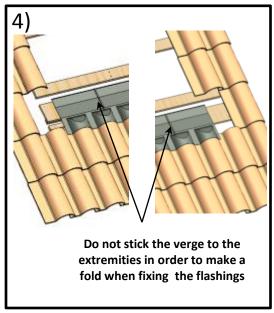
A > measurement X (for X value see on page 10)

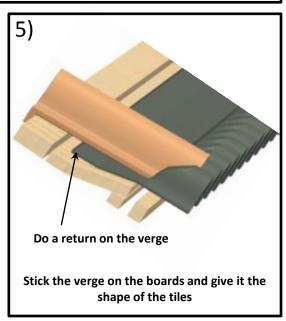


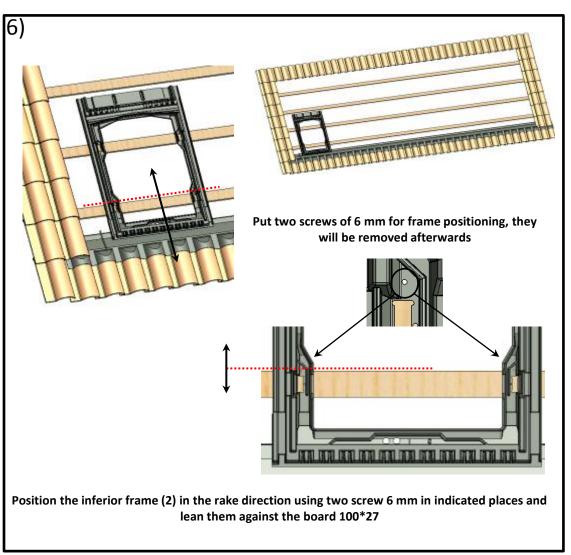


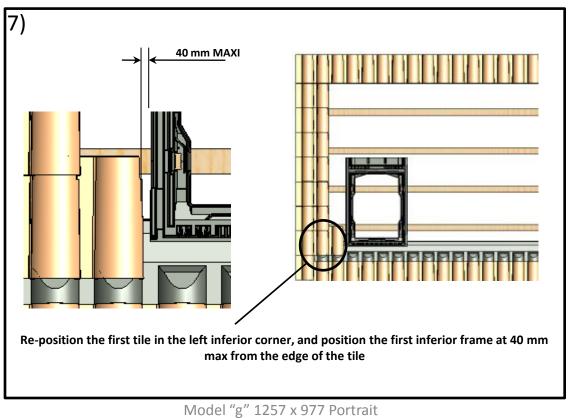


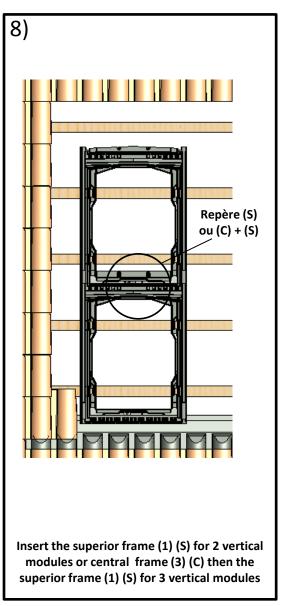
Put the horizontal decking for the frame support with a number of boards 100*27 equal to (2*modules Numbers PV) +1 for the top flashing support. The board's step is 634 mm. Put the verge (recommendation 320 mm mini)

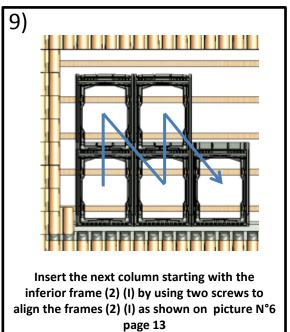


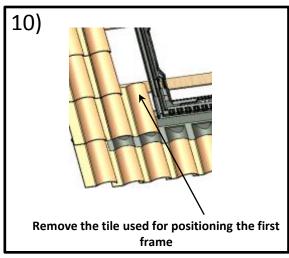


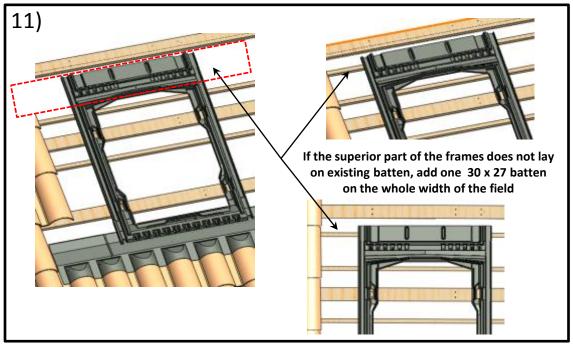


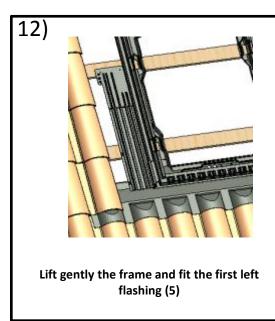


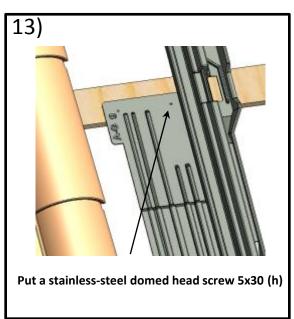


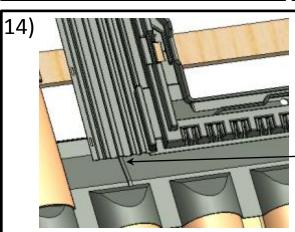




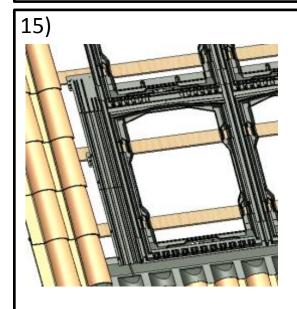




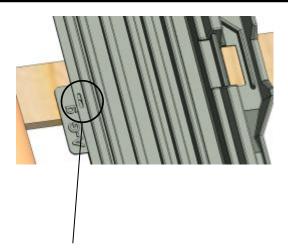




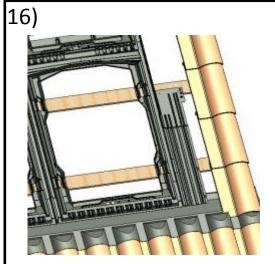
Make a 2 cm high weatherstrip with the verge at the extremity of the verge in front the flashing



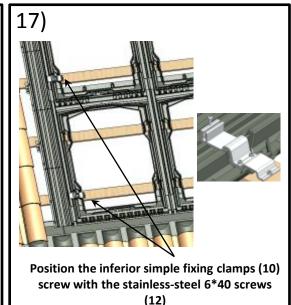
Fix the following flashings by repeating the operations 12 and 13

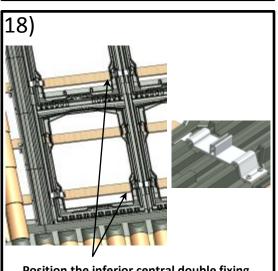


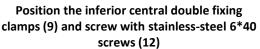
Center the oblong of the superior flashing on the inferior flashing hole, put a screw TB 5x30 stainless-steel (h) and unscrew it one turn

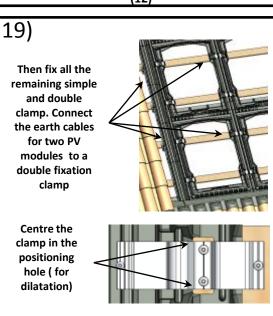


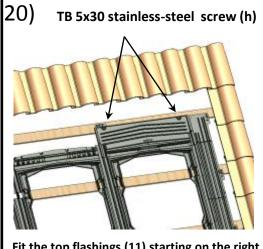
Place the right flashing by repeating the steps 12 to 15 page 15



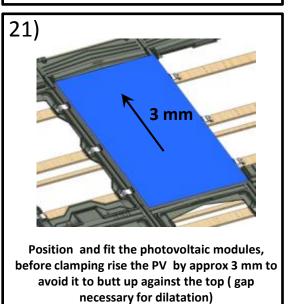


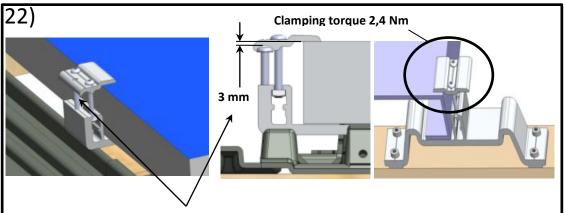






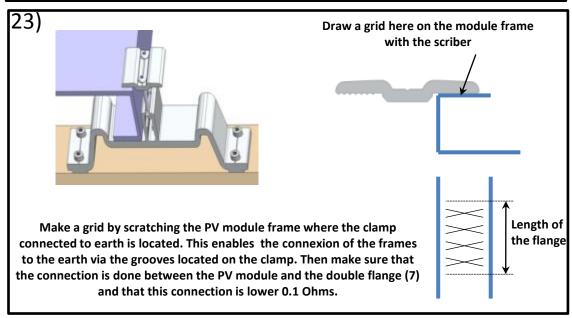
Fit the top flashings (11) starting on the right using stainless-steel domed head TB 5*30 (h) and unscrew 1 turn

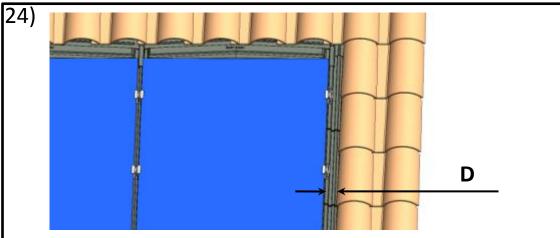




Fix the butt screw at 3 mm under the height of photovoltaic module

Fix the photovoltaic modules with the flanges, use the simple flanges (8) of the edge of the fields and the double flanges (7) for the centre, using M5*35 TBHC (13) and square nuts (14). Before tightening, rise the PV by a few mm so that it does not lean against the top





You only have to put back the tiles by covering at the maximum the top flashings (11). For the side flashing (5) and (6) covering the D measurement have to be lower than 40 mm as indicated on the diagram