EASY ROOF EVOLUTION

DATA SHEET EASY ROOF
SOLUTION FOR VELUX ROOF WINDOW

Version 1.2 of 2022

Compatible EASY ROOF “L-1” EVOLUTION
For 60 cells PV Module- 6 “ PORTRAIT

See modules compatibility on www.edilians.co.uk
Note applicable to the frames whose marking is “L-1”

For :
Residential, Commercial, Public building, Agricultural and Industrial roofs

Document validated by NEW TECHNICAL INVESTIGATION n° L19.4580

The EASY ROOF system is insured provided that the modules have approvals IEC 61215 and IEC 61730

Synopsis

1) Compatibility with VELUX product

VELUX roof windows compatible with EASY ROOF can be installed at a minimum pitch of 15° (Velux recommendation) and a maximum pitch of 50°.

1.1) Pivot Hung Roof Windows

Pine finish
GGL VELUX INTEGRA®
GGL VELUX INTEGRA® Solar
GGL

Model MK06 et M06
Model MK08 et M08

White finish
(wood structure + polyurethane injected)
GGU VELUX INTEGRA®
GGU VELUX INTEGRA® Solar
GGU

Model MK06 (new generation 2013)
Model MK08 (new generation 2013)

ModelM06 (old generation)
Model M08 (old generation)

1.2) Top Hung Roof Windows

Pine finish GPL
White finish
(Wood structure + polyurethane injected)
GPU

Model MK06 (new generation 2013)
Model MK08 (new generation 2013)

Model M06 (old generation)
Model M08 (old generation)

2) VELUX component needed for installation

The Easy Roof kit for VELUX Roof Windows only replace the VELUX flashing kit.
The insulation if needed have to be done using VELUX component and the insulation kit must be installed from the outside before the VELUX Roof Window installation.

2.1) Mandatory Component

(only for new installation)

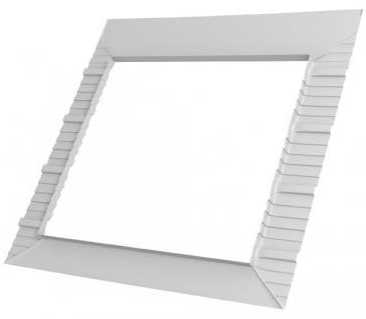
KIT – ZWC

2.2) Optional Component

(only for new installation)

Insulation kit – BDX (ref. Velux BDX 0000) traditional fit (non built in)
It reduces heat loss by eliminating thermal bridges between the window and your roof structure

Underfelt Collar – BFX (réf. Velux BFX 1000) traditional fit (non built in)
The BFX Underfelt Collar ensures a fast connection between the VELUX Roof Window and the roofing felt/membrane



3) Installation guide for the Easy Roof solution for Velux Roof Window

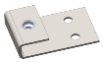
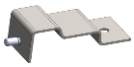
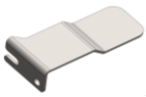
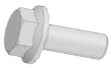
3.1)

Parts provided in the kit MK08 - KITFE002V01			
Number	Designation	Article Code	Quantity
Flashings		ENS001V01	
A1	Frame L-1 VELUX MK08	P001LW14V40	1
A2	Left Flashing L-1 VELUX MK08	P002LW01V40	1
A3	Right Flashing L-1 VELUX MK08	P003LW01V40	1
C1	Top Flashing L-1 VELUX MK08 et MK06	P004LW01V40	1
C2	Bottom Flashing L-1 VELUX MK08 et MK06	P005LW01V40	1
A4	Mounting Tool	P006LW01V40	1
Fixings		ENS003V01	
1	Flashing fixing Bracket Galvanized	SE011V01	10
2	Bottom flashing fixing support (stainless)	SE010V01	2
3	Side Flashing fixing support (stainless)	SE013V01	6
4	Side Flashing Bracket (stainless)	SE012V01	4
5	Top Flashing Bracket (stainless)	SE014V01	2
6	Side Flashing reinforcement bracket	SE015V01	2
7	Flange Screw HM 5x12	V015V02	10
8	Cap Nut HM5 (stainless)	V016V02	6
9	Washer Ø 5 aluminium	V014V02	14
10	Counter sunk head screw 5x30 stainless	V005V01	38

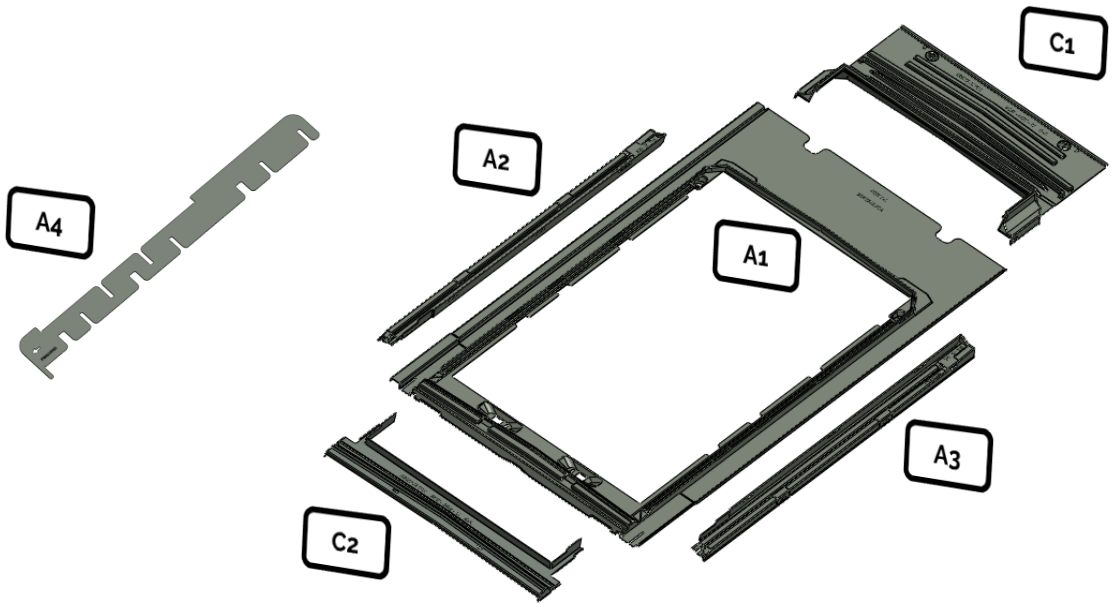
Parts provided in the kit MK06 - KITFE001V01			
Number	Designation	Article Code	Quantity
Flashings		ENS002V01	
B1	Frame L-1 VELUX MK06	P001LW11V40	1
B2	Left Flashing L-1 VELUX MK06	P002LW02V40	1
B3	Right Flashing L-1 VELUX MK06	P003LW02V40	1
C1	Top Flashing L-1 VELUX MK08 et MK06	P004LW01V40	1
C2	Bottom Flashing L-1 VELUX MK08 et MK06	P005LW01V40	1
B4	Mounting Tool	P006LW02V40	1
Fixings		ENS003V01	
1	Flashing fixing Bracket Galvanized	SE011V01	10
2	Bottom flashing fixing support (stainless)	SE010V01	2
3	Side Flashing fixing support (stainless)	SE013V01	6
4	Side Flashing Bracket (stainless)	SE012V01	4
5	Top Flashing Bracket (stainless)	SE014V01	2
6	Side Flashing reinforcement bracket	SE015V01	2
7	Flange Screw HM 5x12	V015V02	10
8	Cap Nut HM5 (stainless)	V016V02	6
9	Washer Ø 5 aluminium	V014V02	14
10	Counter sunk head screw 5x30 stainless	V005V01	38

3.2) Parts presentation

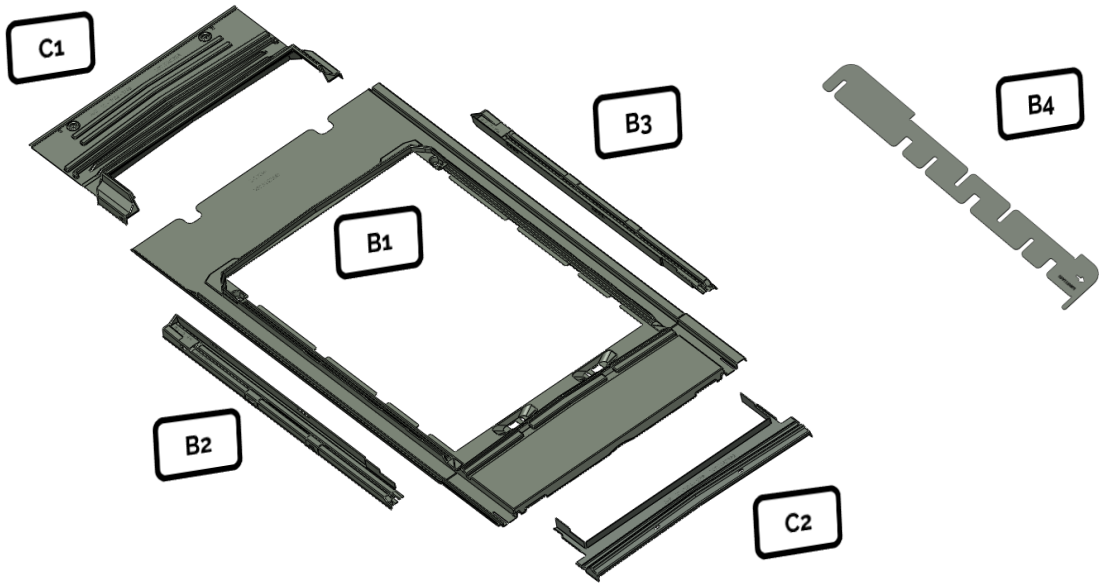
3.2.1) Fixings accessories (ENS003V01)

1  x10	2  x2	3  x6	4  x4	5  x2
6  x2	7  x10	8  x6	9  x14	 x38

3.2.2) Flashing kit MK08 (ENS001V01)



3.2.3) Flashing kit MK06 (ENS002V01)

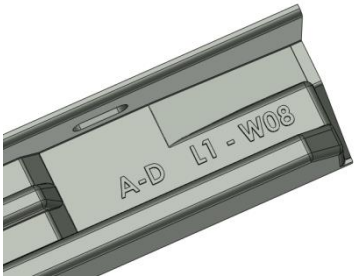


4) Parts marking

Moulded parts Marking	Definition
Frame MK08 (window 140x78)	L-1 W08
Left Flashing MK08	A-G L1 - W08
Right Flashing MK08	A-D L1 - W08

Frame MK06 (window 118x78)	L-1 W06
Left Flashing MK06	A-G L1 - W06
Right Flashing MK06	A-D L1 - W06

Top Flashing MK08 et MK06	A-H L1 - W08 - W06
Bottom Flashing MK08 et MK06	A-B L1 - W08 - W06



5) VELUX Roof Window positioning

1°) Position calculation

Dimension X

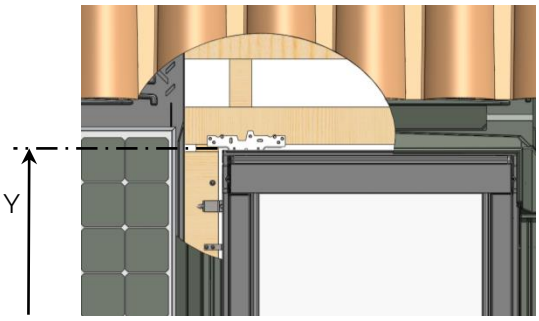
X = 1020 x (Nbx-1) + 510

Nbx : Number of column of PV modu

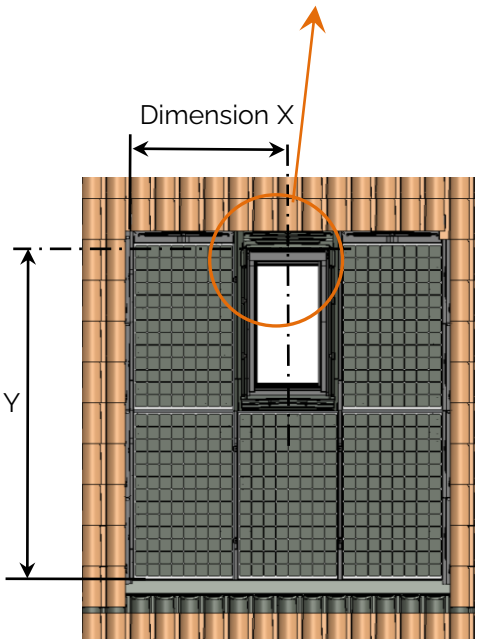
Dimension Y

Y = Pas x (Nby-1) + 1605

Nby : Number of line of PV module



(View with local cut)



		Module length (lg)			
		≤ 1645	1646 ≤ lg ≤ 1665	1666 ≤ lg ≤ 1685	1686 ≤ lg ≤ 1705
System vertical ste		1655	1675	1695	1715
		Dimension Y			
Window's vertical position	1	1605	1605	1605	1605
	2	3260	3280	3300	3320
	3	4915	4955	4995	5035
	4	6570	6630	6690	6750
	5	8225	8305	8385	8465
	6	9880	9980	10080	10180
	7	11535	11655	11775	11895

Ex : (1655 x (6-1)) + 1605 = 9880

Ex : (1020 x (12-1)) + 510)= 11730

	Window's horizontal position															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dimension X	510	1530	2550	3570	4590	5610	6630	7650	8670	9690	10710	11730	12750	13770	14790	15810

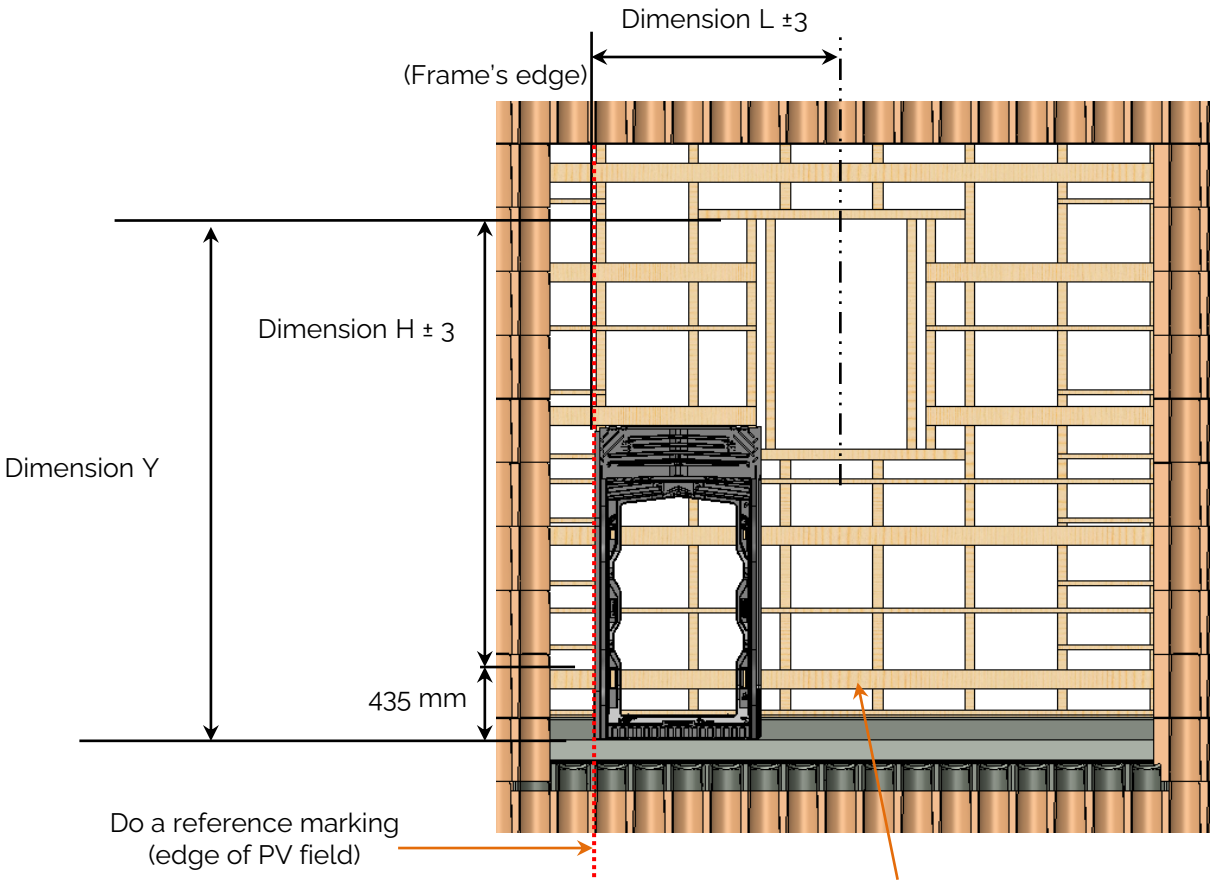
6) Trimmer position

Dimension L
L = 1020 x (Nbx-1) + 527

Nbx : Number of column of PV module

Dimension H
H = Step x (Nby-1) + 1170

Nby : Number of line of PV module



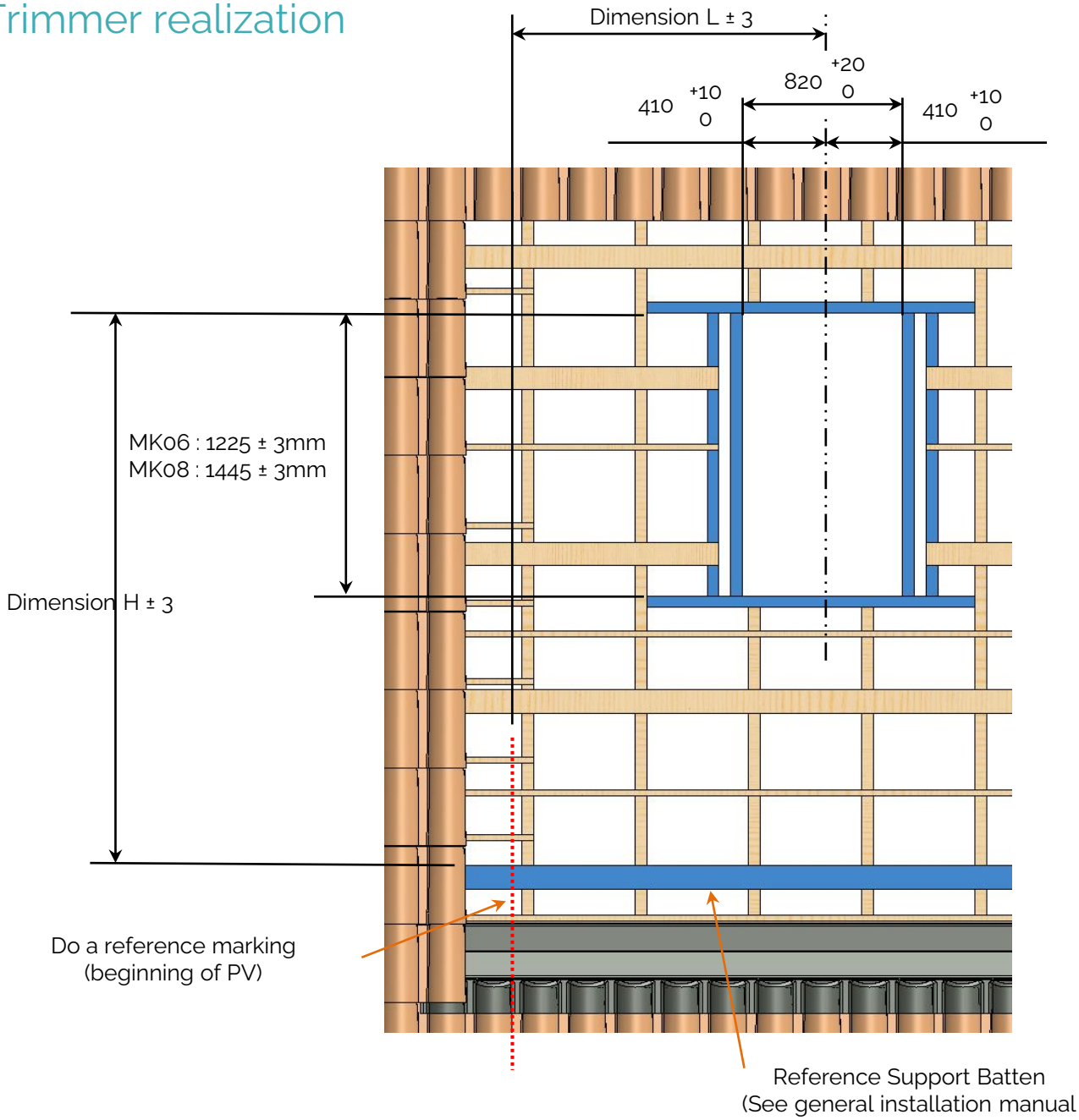
		Length PV module (lg)			
		≤ 1645	1646 ≤ lg ≤ 1665	1666 ≤ lg ≤ 1685	1686 ≤ lg ≤ 1705
Système Vertical Step		1655	1675	1695	1715
		Dimension H			
Trimmer Vertical Position	1	1170	1170	1170	1170
	2	2825	2845	2865	2885
	3	4480	4520	4560	4600
	4	6135	6195	6255	6315
	5	7790	7870	7950	8030
	6	9445	9545	9645	9745
	7	11100	11220	11340	11460

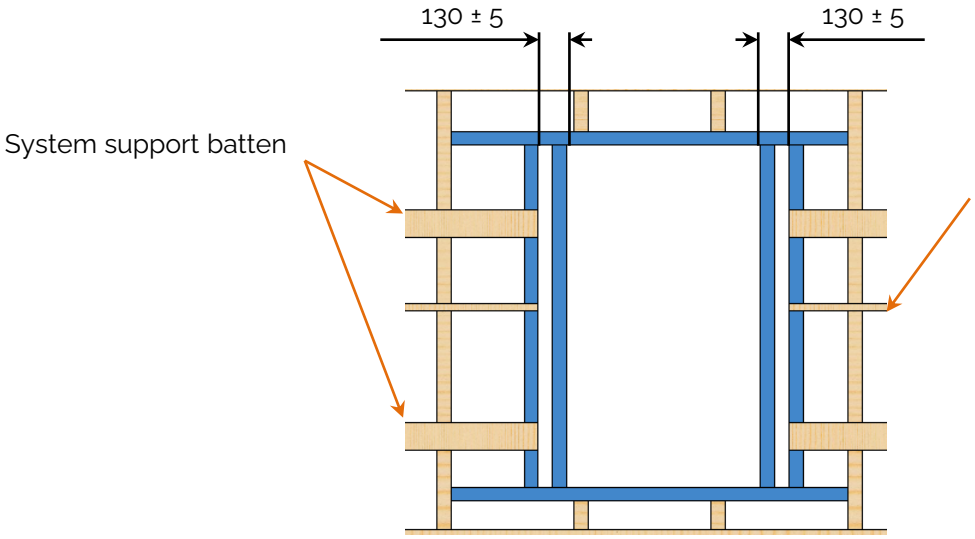
Ex : (1655 x (6-1)) + 1170= 9445

Ex : (1020 x (12-1)) + 527)= 11747

	Trimmer Vertical Position															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Dimension L ± 3	527	1547	2567	3587	4607	5627	6647	7667	8687	9707	10727	11747	12767	13787	14807	15827

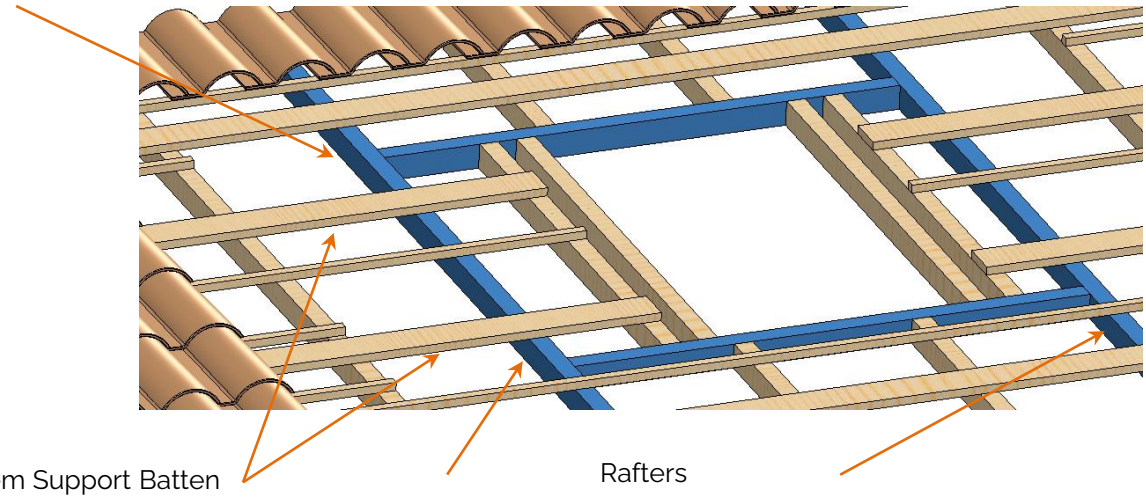
7) Trimmer realization



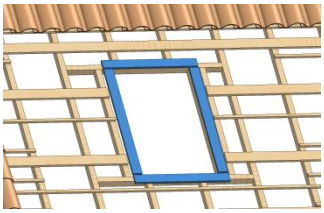


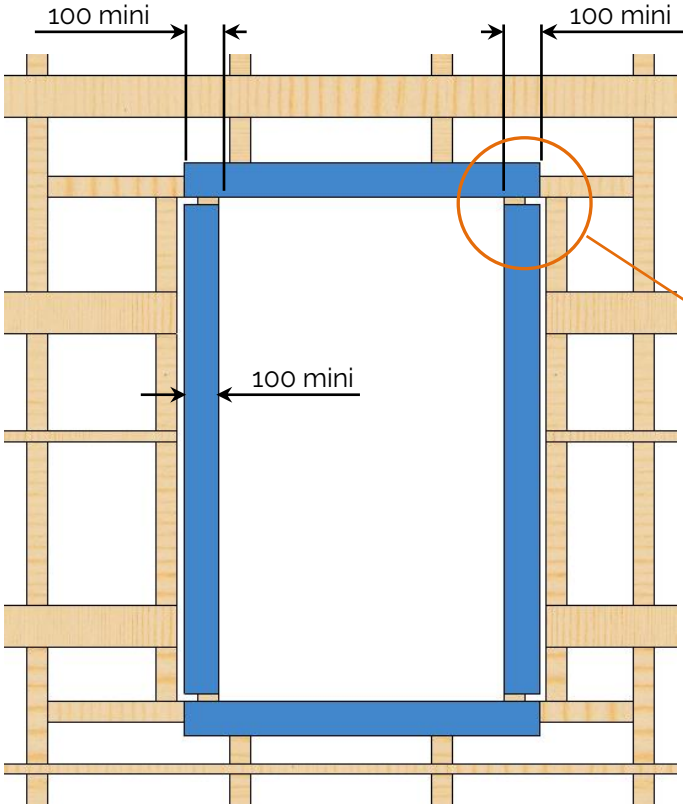
7) Trimmer realization

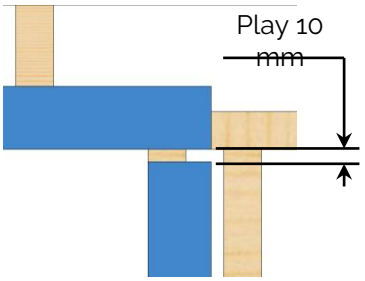
The Trimmer must be flush with the rafters/beams



Add 4 battens with the same thickness as the system support batten. This 4 batten must be flush with the inside of the trimmer.



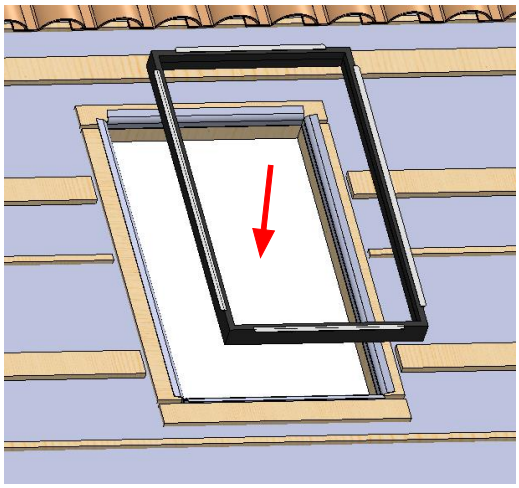




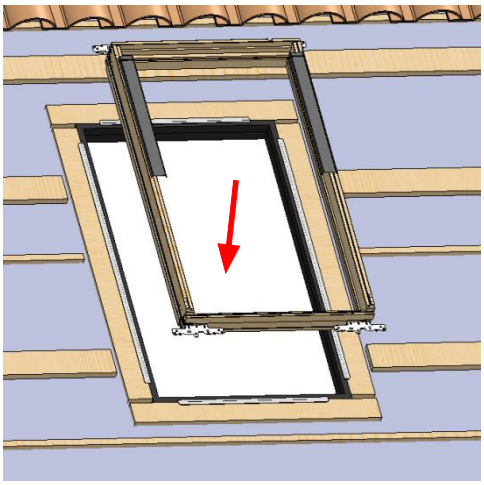
To be done at each 4 corners

8) Assembly of Velux component

1°) Put the insulation kit BDX 0000 following the manufacturer recommendation.



2°) Put the window frame following the manufacturer recommendation.



3°) Put the underfelt collar BFX 1000 following the manufacturer recommendation.

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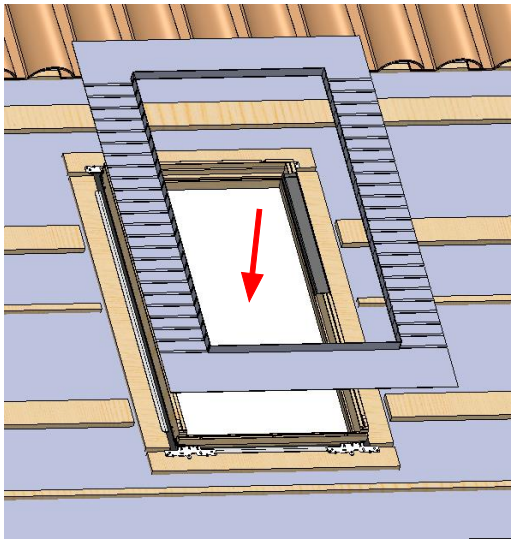
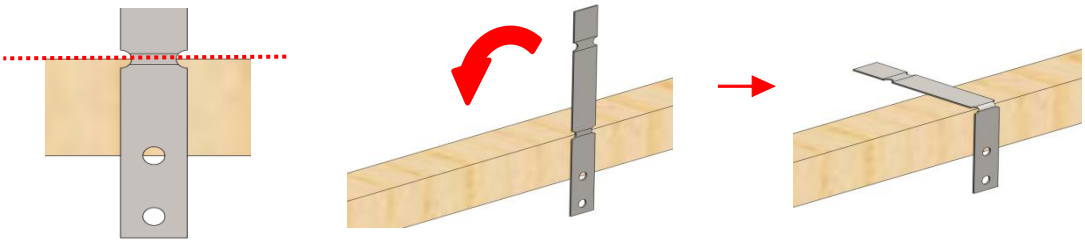
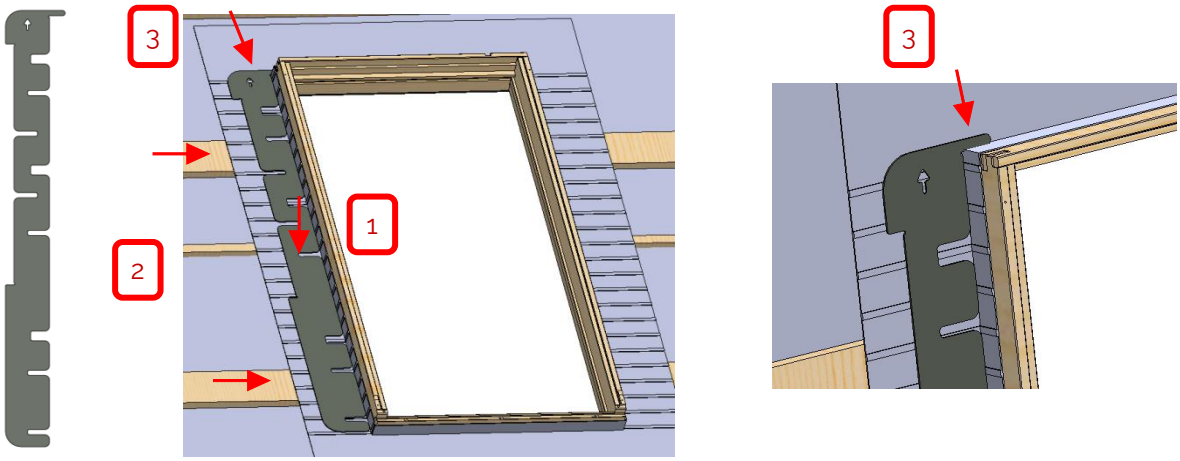


9) Assembly of EASY ROOF fixings

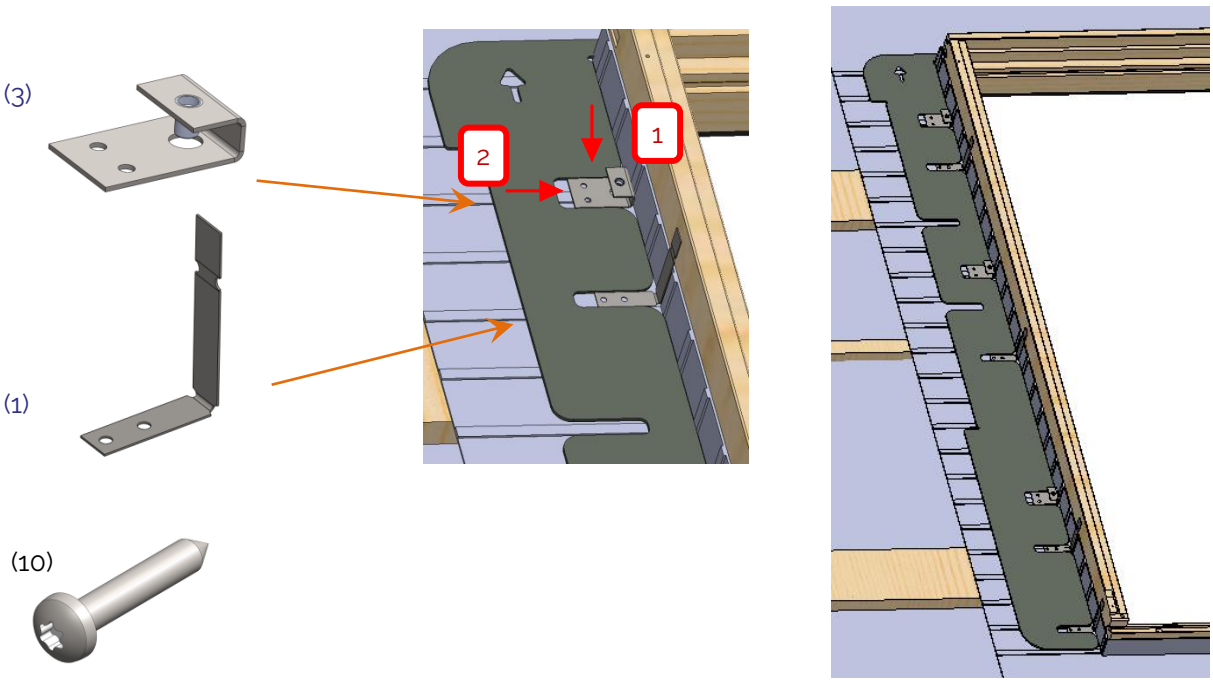
1°) Fold at 90° the 10 flashing fixing bracket (1) like shown hereunder.



2°) Position the mounting tool A4 or B4 (according to window's length) on the side of the window.

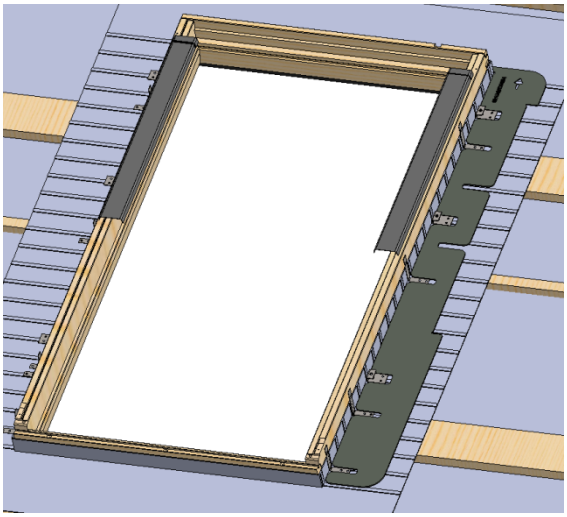


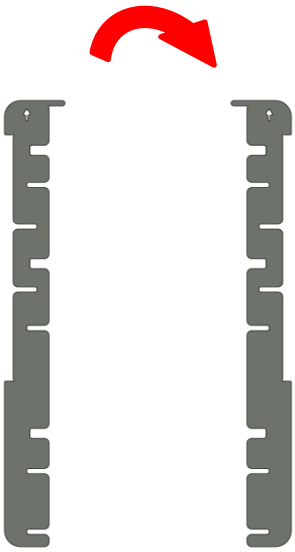
3°) Using the opening in the mounting tool place the fixings (3) x 3 and (1) x 4 on each side of the window frame. Press them against the frame and screw with 5x30 stainless (10)



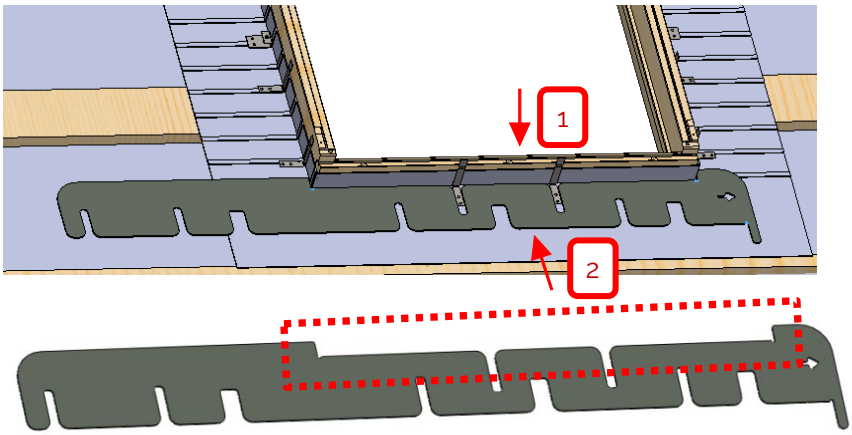
9) Assembly of EASY ROOF fixings

4˚) repeat step 2 and 3 for the other side (flip over the mounting tool).



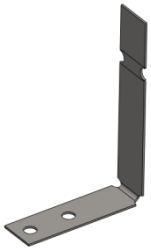


5˚) Position the mounting tool A4 or B4 (according to window's length) at the bottom of the window.

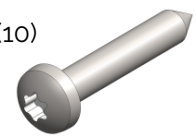


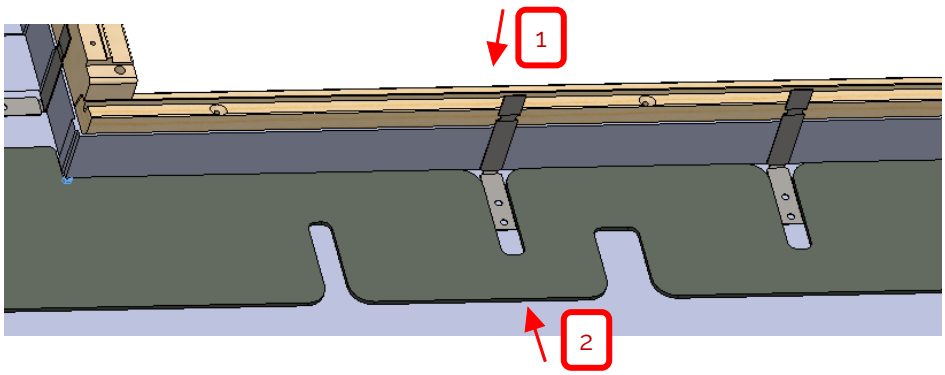
6˚) Using the opening in the mounting tool place the fixings (1) x 2. Press them against the frame and screw with 5x30 stainless (10)

(1)



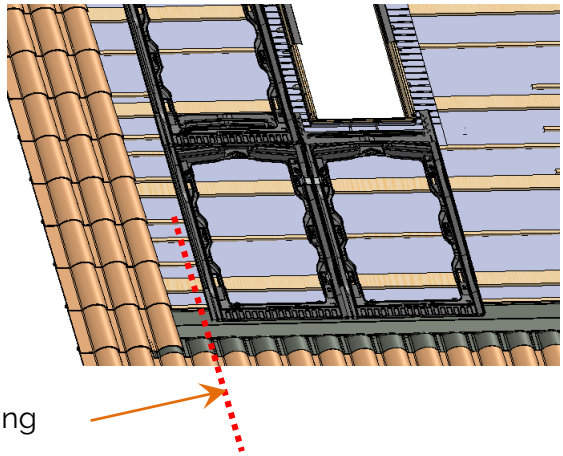
(10)





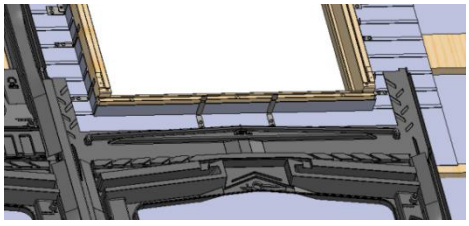
10) Flashing kit assembly

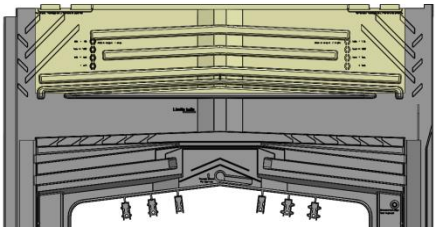
7°) Install the Easy Roof frame L1 up to the window following the general installation manual. Align the first frame with the reference marking(see page 9).

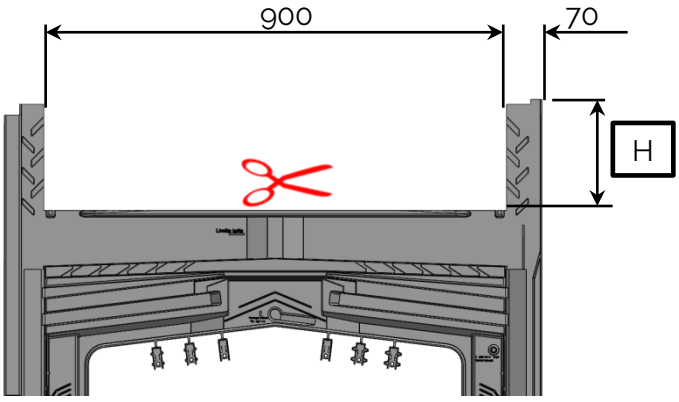


8°) In the case of the MK08 window is above a PV module it will be needed to do a cutting on the L1 frame below the Velux. This is only for MK08, no cutting needed for MK06.

a°)



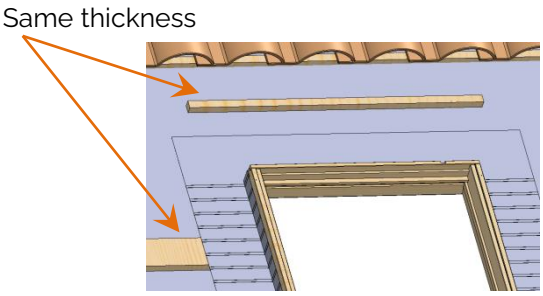


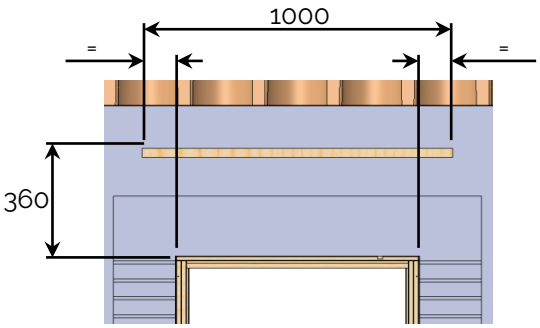


Warning : Check panels compatibility on www.irfts.com	Length PV module (lg)			
	≤ 1645	1646 ≤ lg ≤ 1665	1665 ≤ lg ≤ 1685	1686 ≤ lg ≤ 1705
Système Vertical Step*	1655	1675	1695	1705
Dimension H	215	195	175	155

* See general instaaltion manual EASY ROOF Evolution L-1

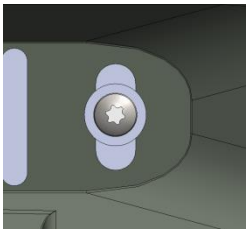
9˚) Add a batten at 360 mm from the top of the window. This batten have the same thickness as th e support batten.

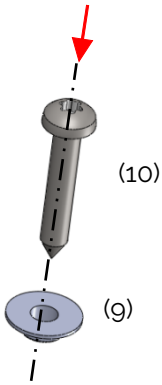


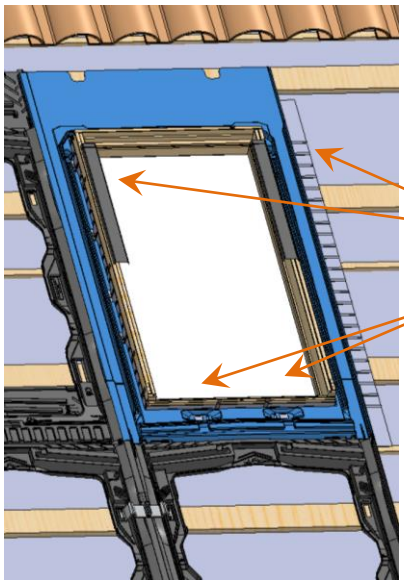


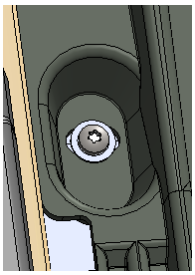
10) Flashing kit assembly

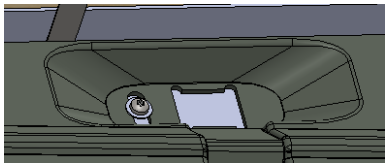
1˚) Place the Easy Roof frame L1 VELUX around the window.
Fix the frame using 4 screws 5x30 stainless (10) and 4 washers (9) like shown hereunder.
Center the screw in the oblong.



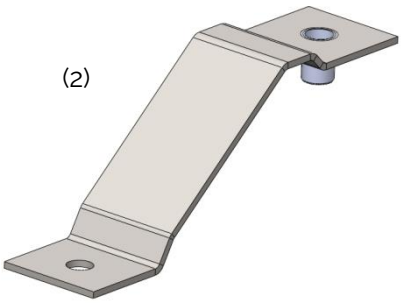


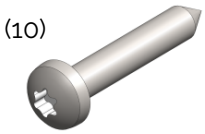


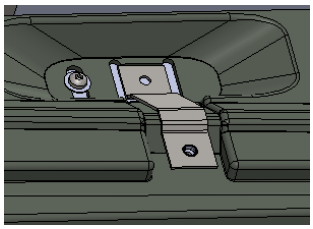


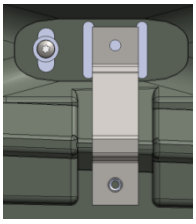


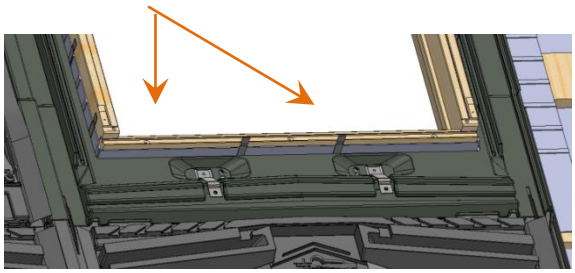
2˚) Put the two Bottom flashing fixing support (2). Center the support in the opening.
Screw using screws 5x30 stainless screws (10).





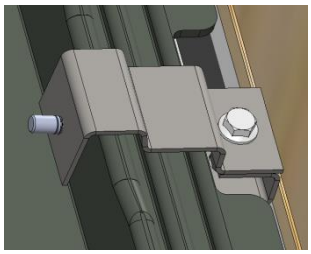




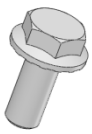


10) Flashing kit assembly

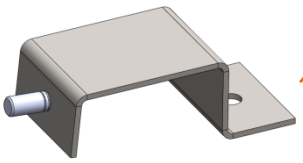
3°) Put the two (one for each side) Top flashing fixing support (5) using screw HM12x5 (7).
Put the four (two for each side) Side flashing fixing support (4) using screw HM12x5 (7).



(7)



(5)



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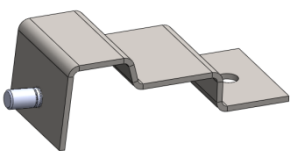
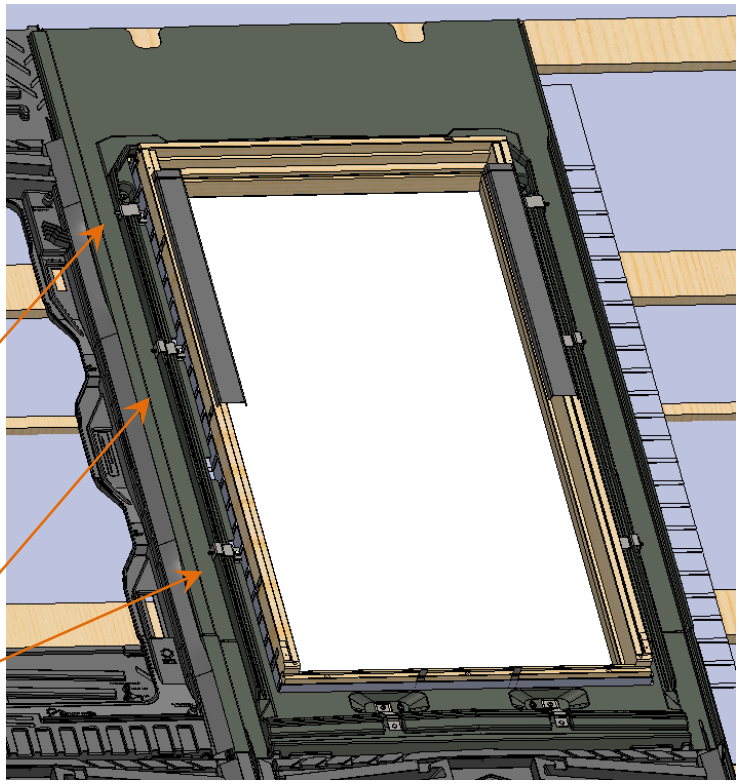
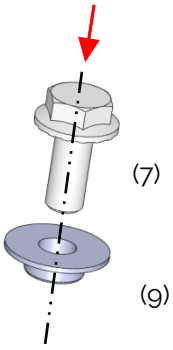


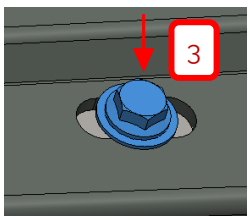


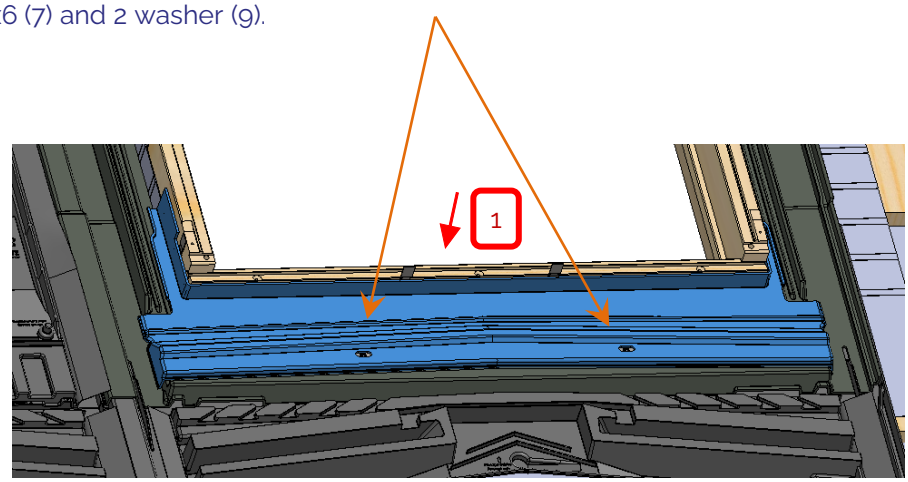
4°) Put the Bottom flashing (C2), press against the window.
Screw with 2 screws HM12x6 (7) and 2 washer (9).



(7)

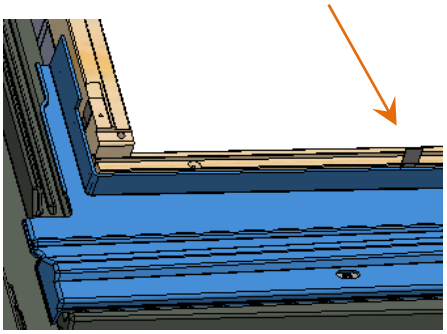
(9)

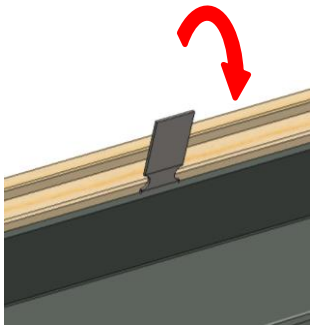


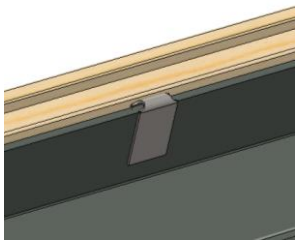


10) Flashing kit assembly

5°) Fold down the bracket (1) on the bottom flashing.

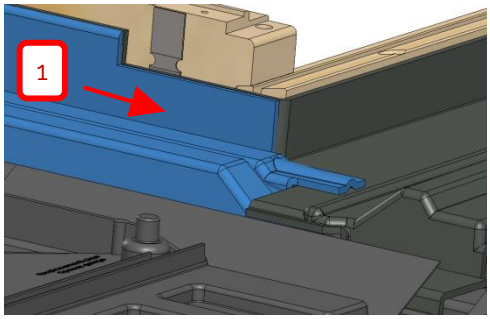


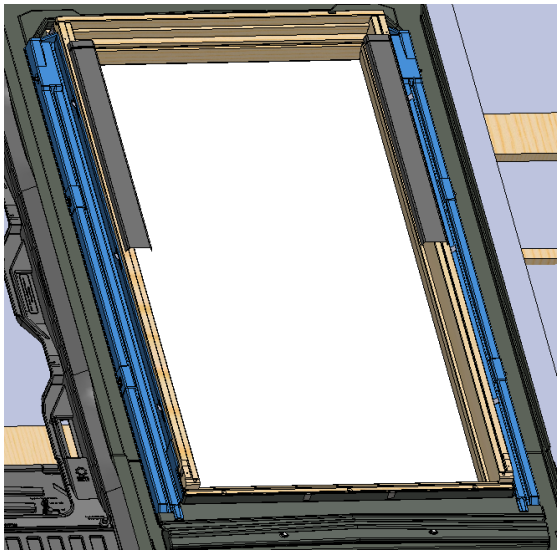


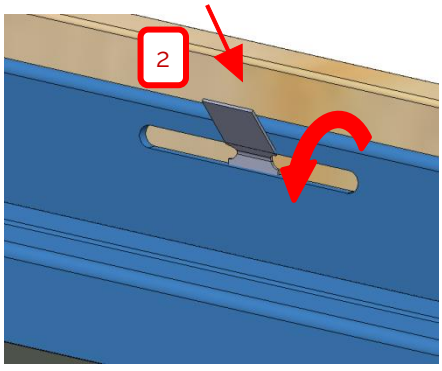


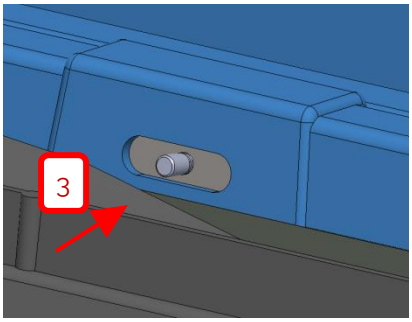
6°) Put the side flashing.

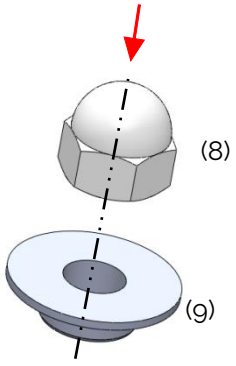
1- snap the bottom part in the bottom flashing intalled previously.
2- put the bracket's tab (1) in the flashing openings.
3- Put the bracket's stud (4) in the flashing opening.
4- Fasten using nuts HM5 (8) and washers (9).

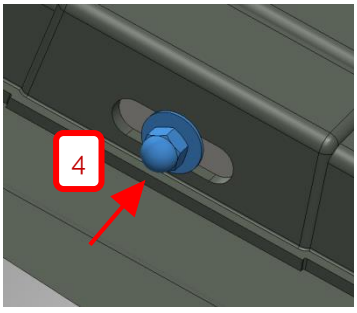






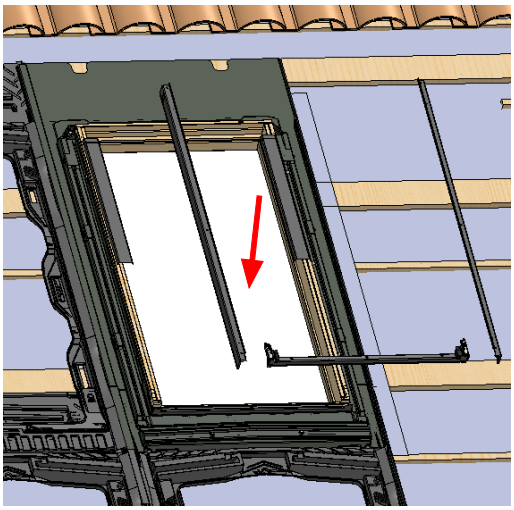




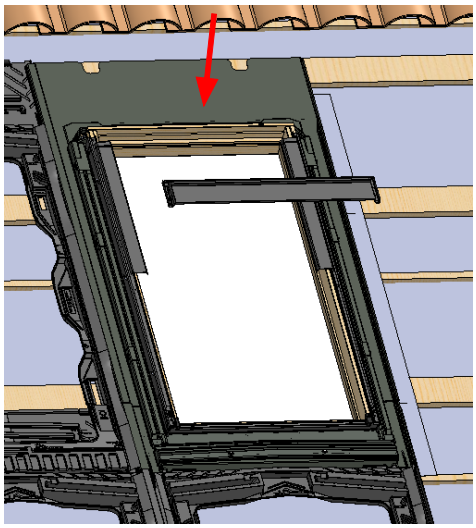


10) Flashing kit assembly

7°) Put the Velux KIT ZWC following the manufacturer recommendation.

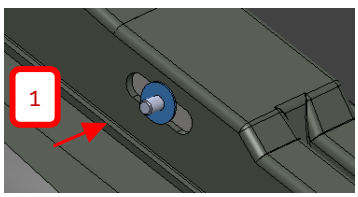


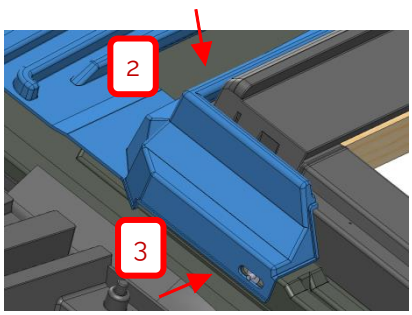
8°) Put the Velux Top cover following the manufacturer recommendation.

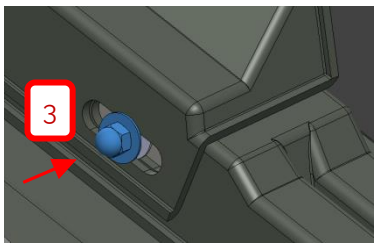


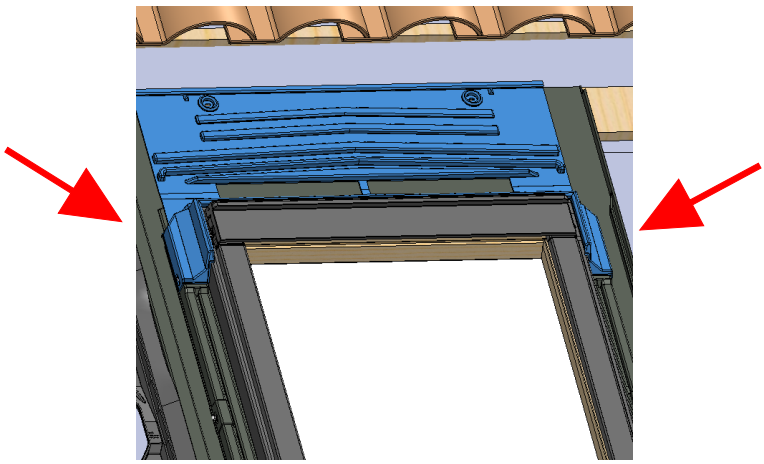
9°) Put the Top Flashing (C1)

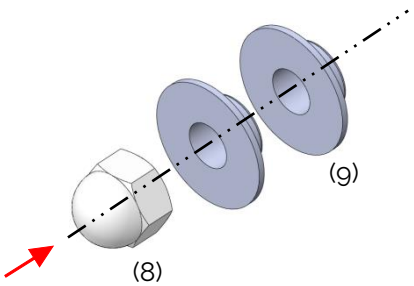
1- Put a washer (8) on the bracket's stud (5).
2- Snap the Top Flashong (C1) on the Velux top cover.
3- Place the bracket's stud (5) in the Top flashing opening.
4- Fasten using nuts HM5 (8) and washers (9).







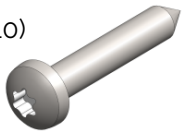


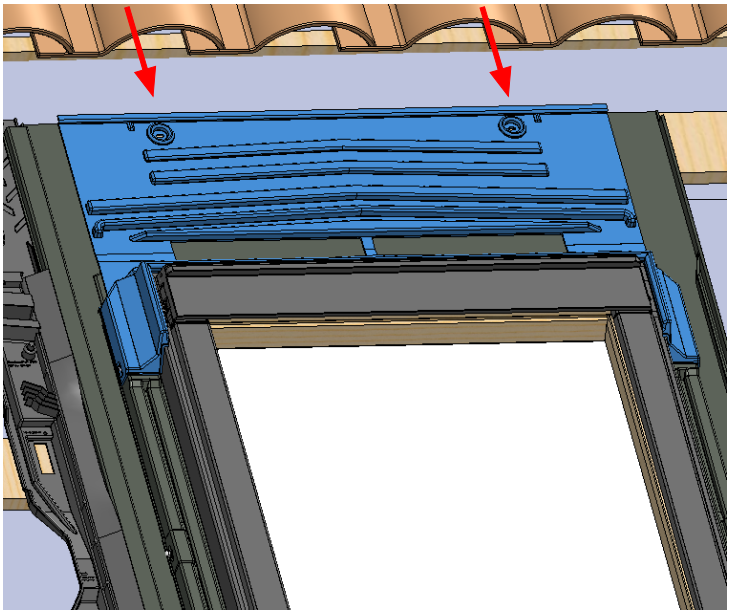


10) Flashing kit assembly

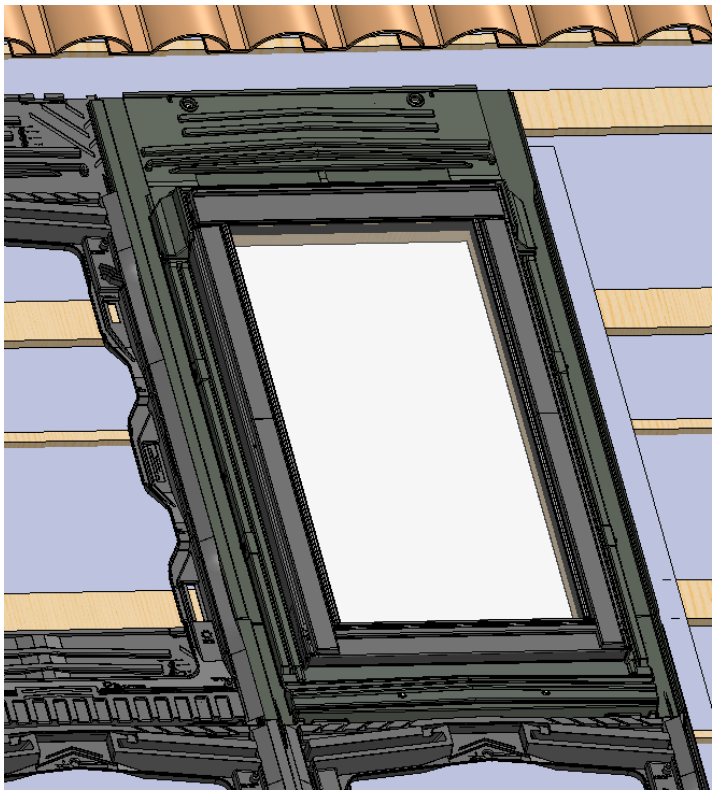
10˚) Put 2 screws 5x30 (10) on the upper part of the Top Flashing.
Do not tight firmly.

(10)



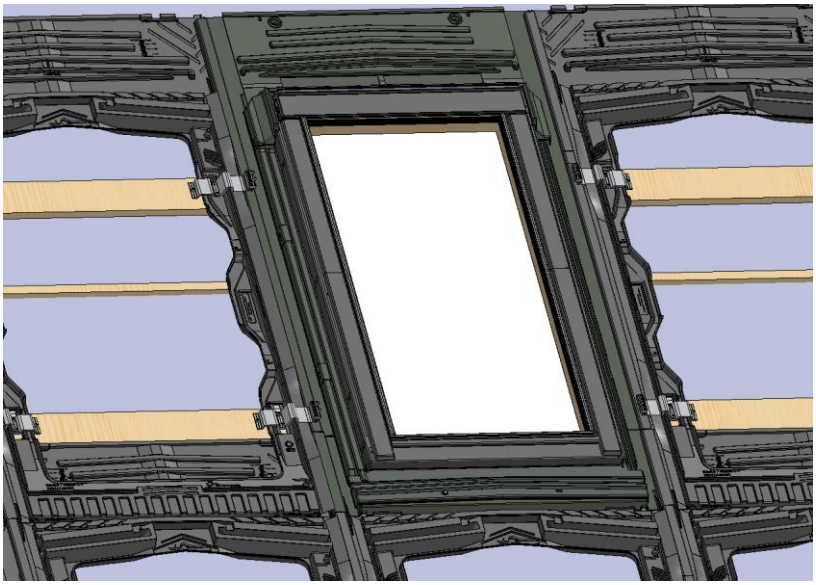


11 °) Finalize the window assembly by placing the opening part of the window.

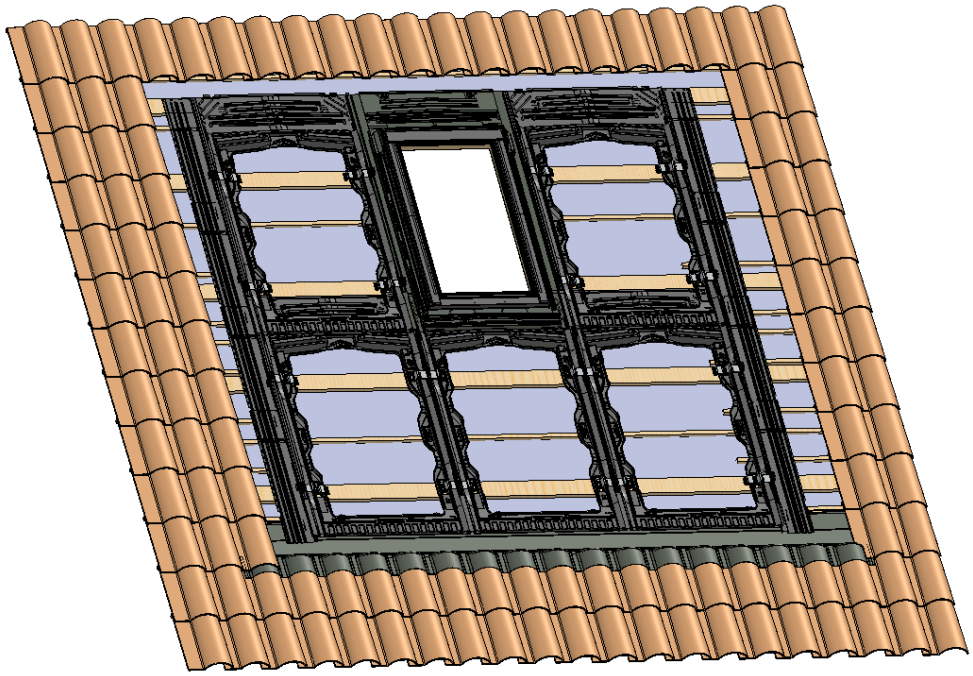


10) Flashing kit assembly

11°) Follow the general instruction manual to place the End Bracket around the window.

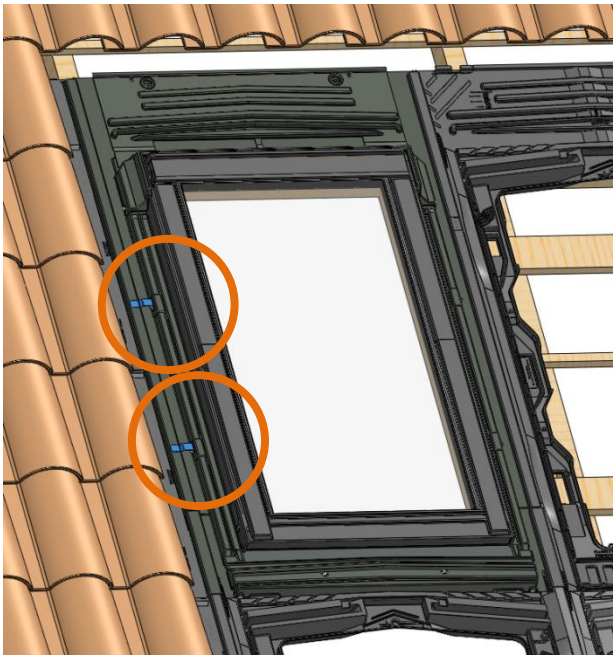


12°) Finalyse the PV installation following the general instruction manual.

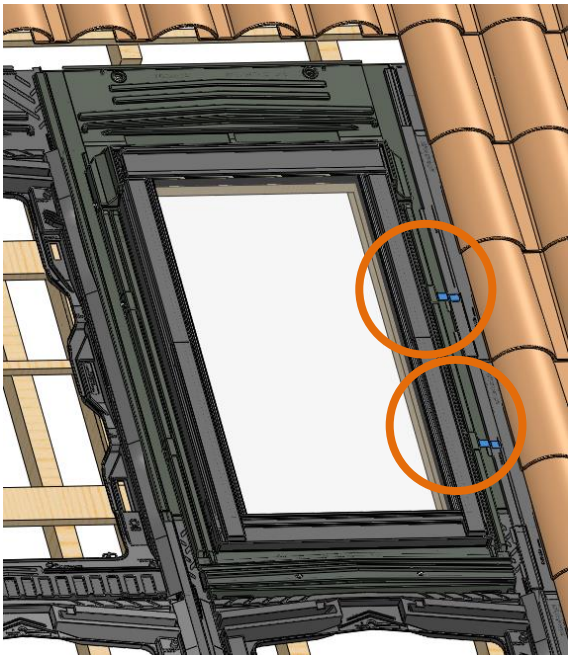


Annexe 1 Window installation at the edge of the PV field

When the window is installed at the edge of the PV field, add 2 side flashing reinforcement bracket (6) on the side flashing.



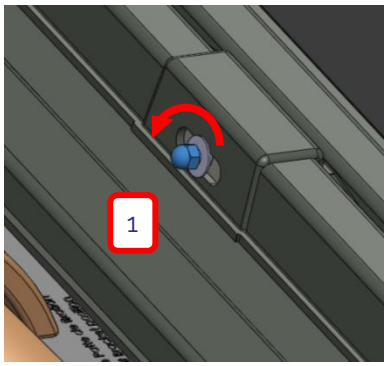
(Left side of PV field)



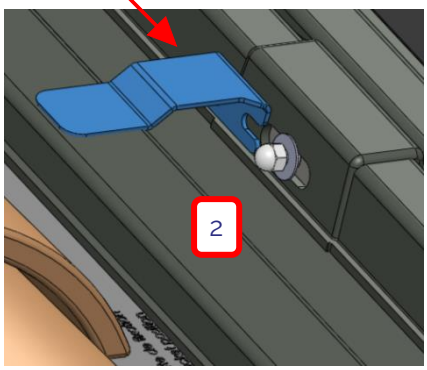
(right side of PV field)

(6)

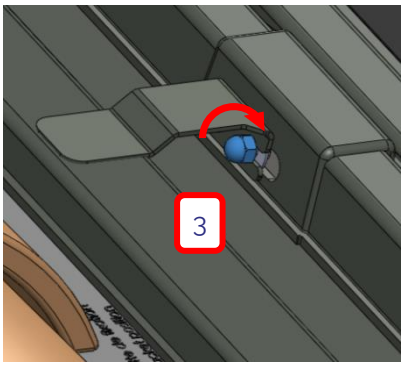
1°) Unscrew the M5 cap nut.



2°) Slide the side flashing reinforcement bracket (6) between the M5 cap nut and the washer



3°) Tight the M5 cap nut.



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