

SAMEN NAAR ENERGIE ONAFHANKELIJKHEID

Stap voor stap installeren

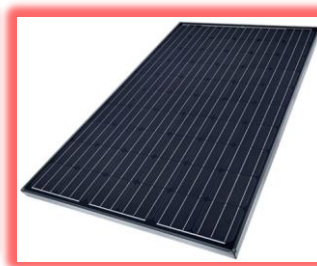
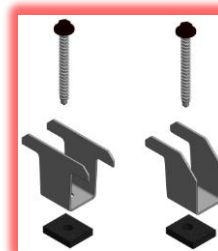
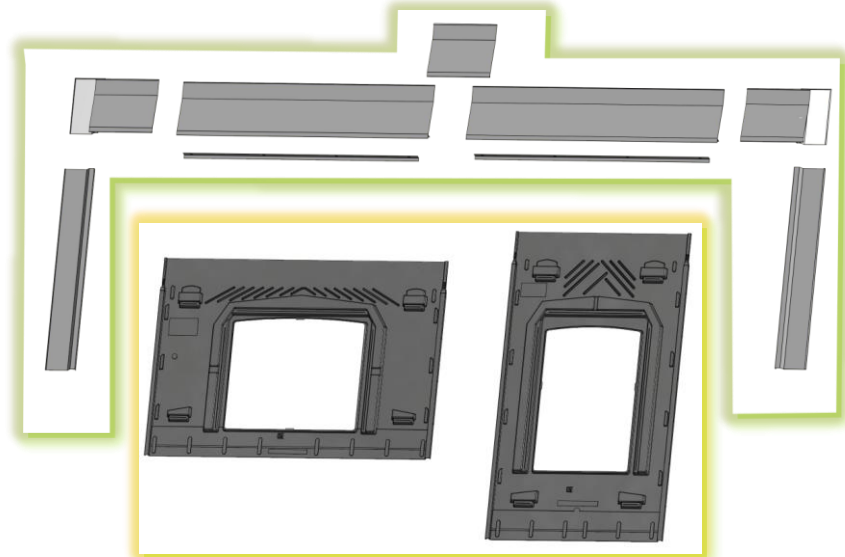
GSE IN-ROOF SYSTEM™

GSEI stap voor stap installeren

Universele kit – Presentatie

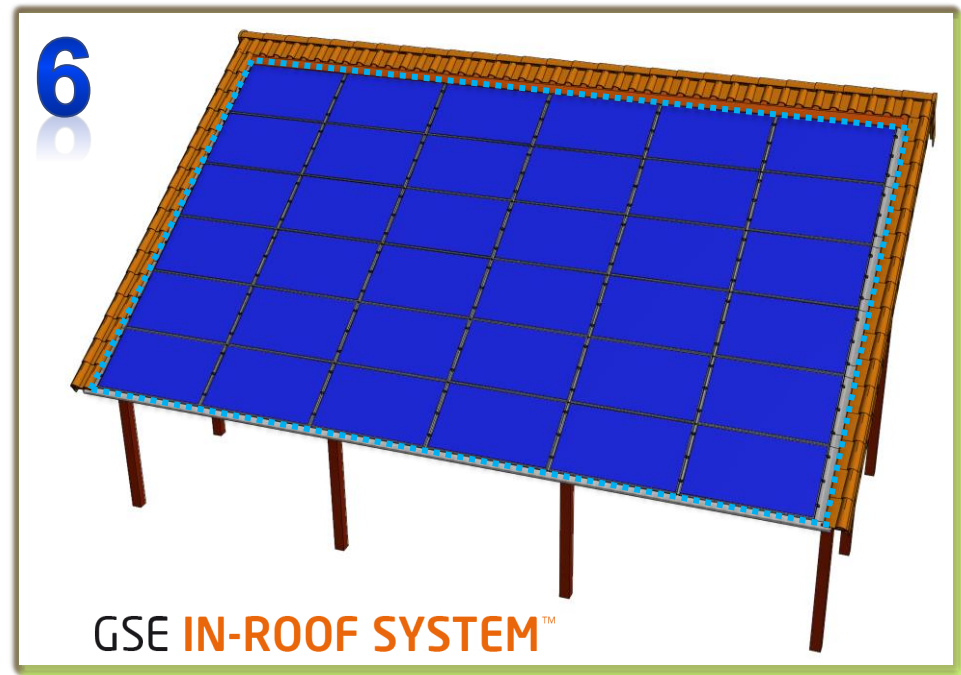
➤ Componenten :

- GSE Intégration PLATEN™
- Verbinding met de dakbedekking
- PV modules & Bevestiging
- Andere componenten



➤ Overzicht van de installatie

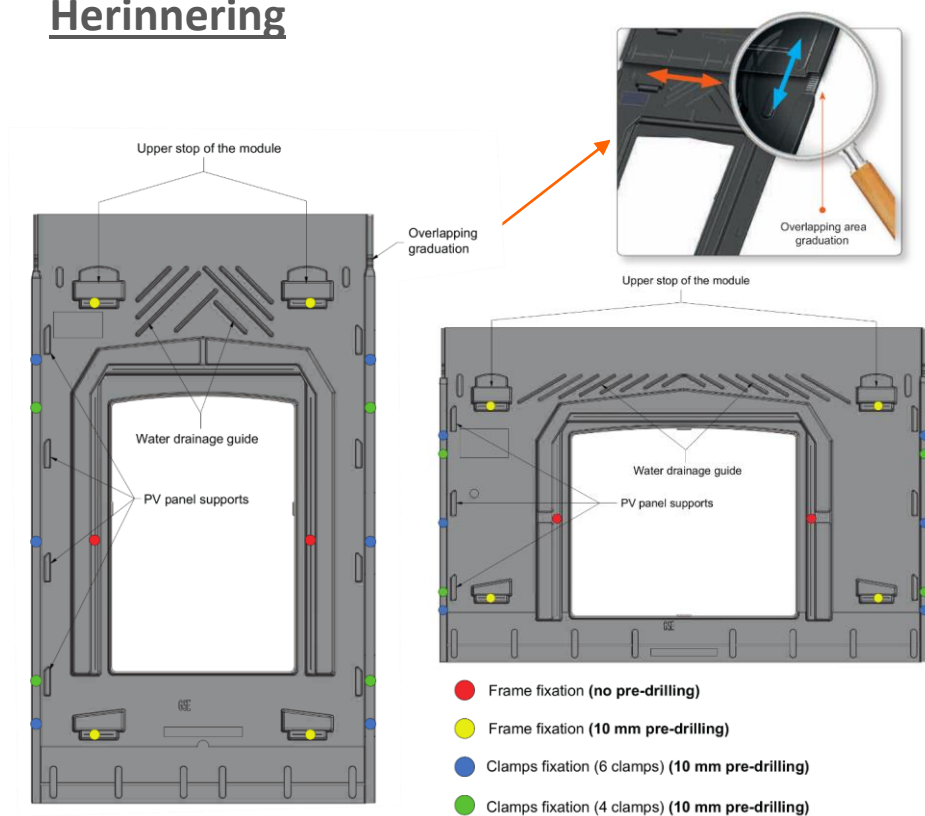
1. Bepaal de grootte van het PV-veld
2. Verwijder de dakbedekking en plaats de steunlatten
3. Plaats de waterdichte strip onderaan en monteer de GSE-frames
4. Plaats de laterale gootstukken
5. Plaats en maak de PV-modules & de nokverbinding (of de flexalu) vast
6. Plaats de dakbedekking rondom



Universele kit– Installatie stap voor stap

➤ Stap 1 : Bereken de grootte van het PV-veld

• Herinnering



		PV module dimensions							
		Height			Width				
		Min. tolerated	Min. suggested	Max.	Min. tolerated	Min. suggested	Max.		
PORTRAIT	Version 2012	Réf.							
		1580_808	1500	1540	1620	801	803	808	
		1575_1046	1495	1535	1615	1039	1041	1046	
		1575_1053	1495	1535	1615	1046	1048	1053	
		1575_1082	1495	1535	1615	1075	1077	1082	
		1640_992	1560	1600	1680	985	987	992	
		1640_1001	1560	1600	1680	994	996	1001	
	1640_1001_33	1560	1600	1680	994	996	1001		
	1686-1700_1016	1605	1645	1725	1009	1011	1016		
	Version 2020	1710_1000	1630	1670	1750	993	995	1000	
		1710_1005	1630	1670	1750	998	1000	1005	
		1710_1020	1630	1670	1750	1013	1015	1020	
		1710_1025	1630	1670	1750	1018	1020	1025	
		1710_1030	1630	1670	1750	1023	1025	1030	
		1710_1050	1630	1670	1750	1043	1045	1050	
		1710_1060	1630	1670	1750	1053	1055	1060	
	LANDSCAPE	Version 2012	1559_1082	1002	1042	1122	1552	1554	1559
			1575_1082	1002	1042	1122	1568	1570	1575
			1580_808	728	768	848	1573	1575	1580
1640_992			912	952	1032	1633	1635	1640	
1650_992			912	952	1032	1643	1645	1650	
1660_992			912	952	1032	1653	1655	1660	
1670_992			912	952	1032	1663	1665	1670	
1675_992_33			912	952	1032	1668	1670	1675	
1680_992			912	952	1032	1673	1675	1680	
1686_1016			912	952	1032	1679	1681	1686	
1700_1016		912	952	1032	1693	1695	1700		
Version 2020		1665_1020	940	980	1060	1658	1660	1665	
	1675_1020	940	980	1060	1668	1670	1675		
	1680_1020	940	980	1060	1673	1675	1680		
	1685_1020	940	980	1060	1678	1680	1685		
	1690_1020	940	980	1060	1683	1685	1690		
	1700_1020	940	980	1060	1693	1695	1700		
		1740_1020	940	980	1060	1733	1735	1740	

Universele kit – Installatie stap voor stap

➤ Stap 1 : Bereken de grootte van het PV-veld

1. Gebruik onze dimensioneringstools :

[https://www.gseintegration.com/Docs/Intl/EN/Calculateur_Champs_PV-GSEIR-v2.5\(EN\).xism](https://www.gseintegration.com/Docs/Intl/EN/Calculateur_Champs_PV-GSEIR-v2.5(EN).xism)

2. Gedetailleerde berekening :

1. Bepaal het GSE-frame dat compatibel is met uw PV-module
2. En de aanpassing tussen de rijen (schaalverdeling van 0 tot 40mm)

Calculator - Measurement of PV Field

Project Name: Test Project
Customer: GSE
Date: 10/10/2020

1. Module features

Weight	2000	Function box	Yes
Width	1000	Rear support bar(s)	Yes
Thickness	30		

2. Components data - Trays & clamps references

GSE references	Pitch	Lead-in
Clamps	1000	1000
Ref. height (mm)	1700	1000
Ref. width (mm)	1000	1685
Clamp spacing (mm)	100	100
Rows spacing (mm)	100	30

3. PV-field data

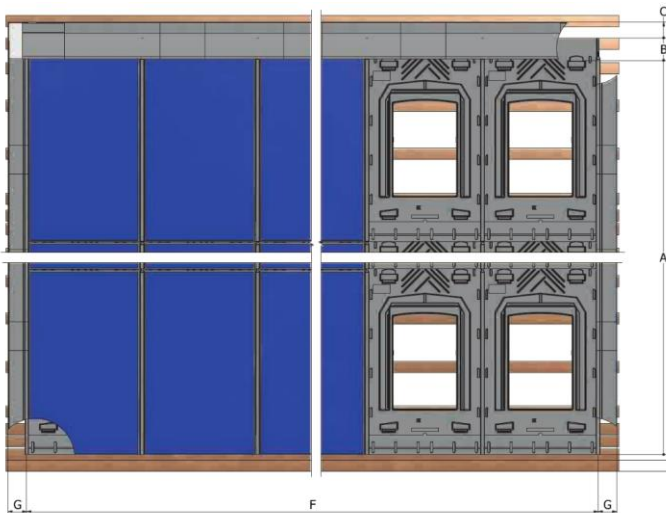
Configuration	Rows	Columns
Standard	2	3

Field dimensions

	Height (m)	Length (m)
GSE plates only (and)	2.800	3.000
Integr. in the gutter (and cut-out)	2.800	3.000
Integr. in the center (and cut-out)	2.800	3.000
GSE plates only (and)	2.815	3.015
Integr. in the gutter (and cut-out)	2.815	3.015

Adm 20 | GSE INTEGRATION - Engineering | Calculateur Champs PV - GSE IR - v2.5 (EN)

NB: Subscribe to our webinars on dimensioning tools



Array height (mm) =

$$((\text{Height Ref.} + 0 \text{ to } 40 + 10) \times \text{Nb. lines}) + 160 + 150 + 50 + 100^2$$

$$A + B + C + D + E$$

Array width (mm) =

$$((\text{Width Ref.} + 36.5) \times \text{Nb. columns}) + (2 \times 165)$$

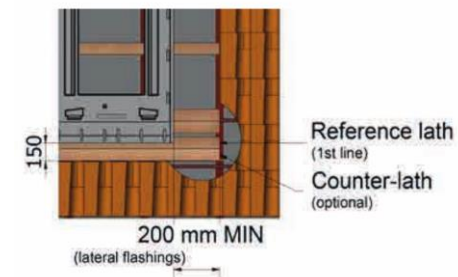
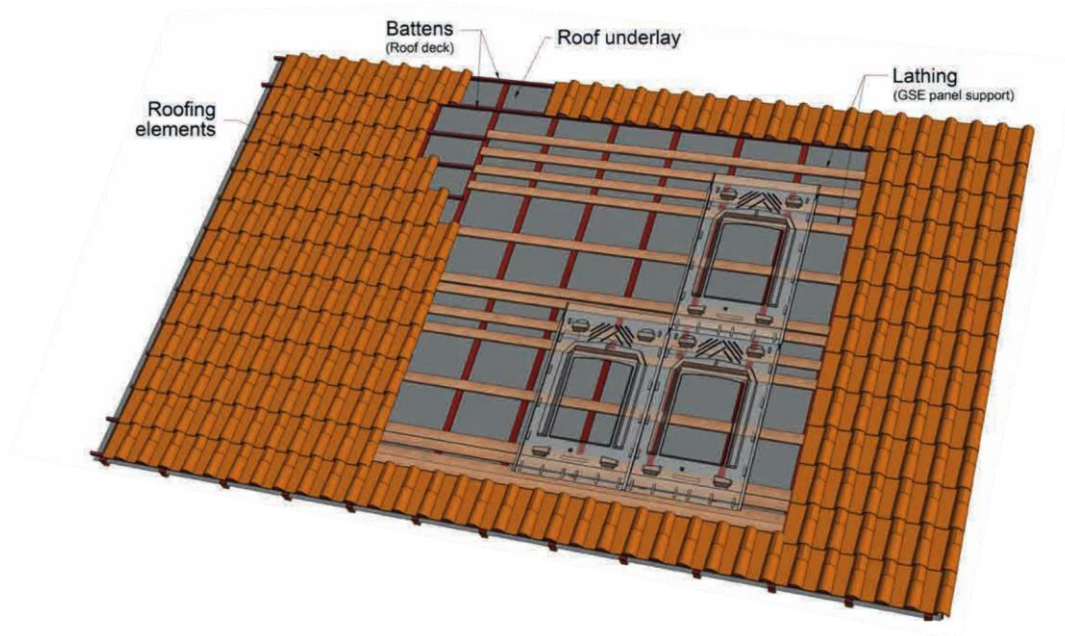
$$F + 2 \times G$$

² If integrated in the roof center, add a board to equalise with the tile curve height (ie. 3.3)

Universele kit – Installatie stap voor stap

➤ Stap 2 : Plaats de steunlatten

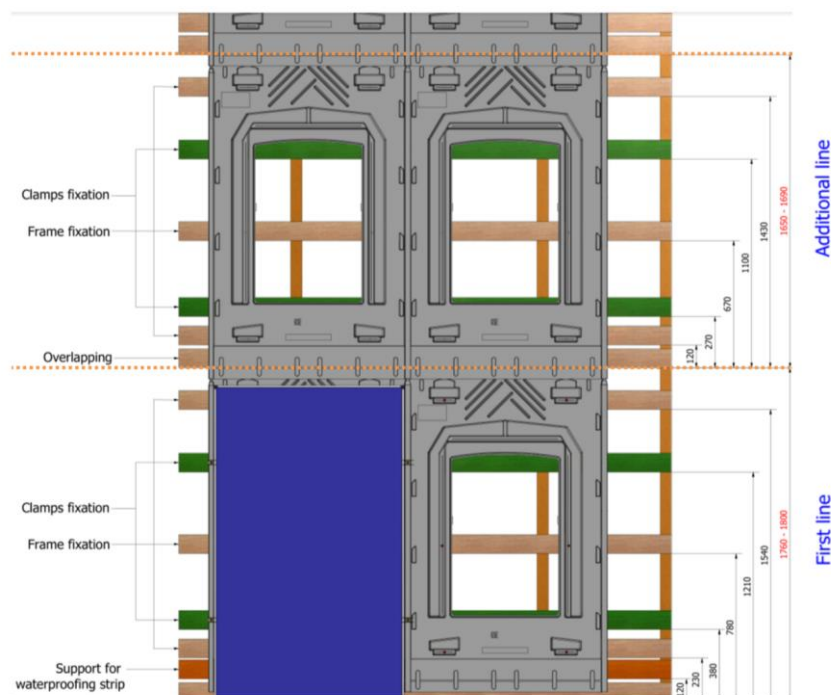
- Bevestig de GSE-frames NIET rechtstreeks op de bestaande daklatten
- Gebruik houten latten met passende afmetingen (vb: 27x100 (FR), 25x50 (UK),...)



Universele kit – Installatie stap voor stap

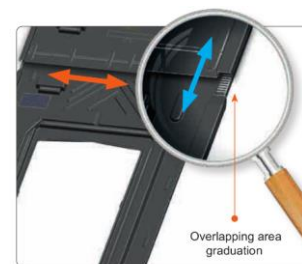
➤ Stap 2 : Plaats de steunlatten

- Algemene lattenplannen zijn beschikbaar op onze website (Portrait & Landscape) : <http://www.gseintegration.com/media.html>



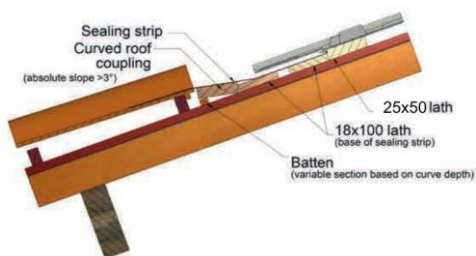
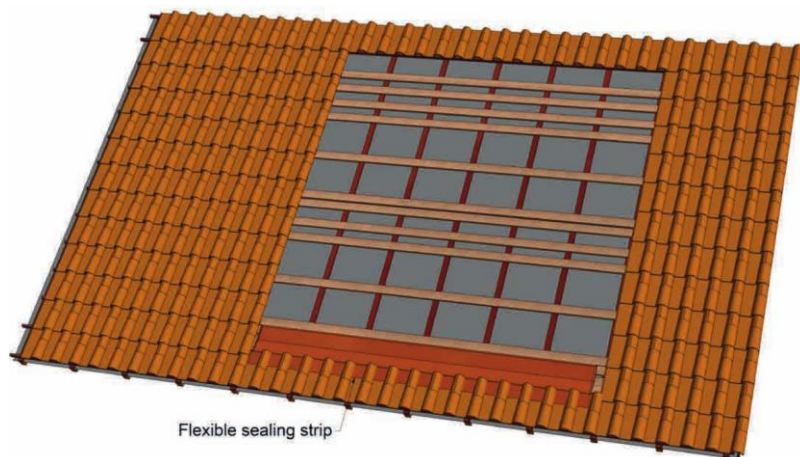
Ex: GSE Frame Portrait 1640_992

Module Length (mm)	First line (mm)	Additional line (mm)	Graduation (mm)
≤1640	1760	1650	0
≤1645	1765	1655	5
≤1650	1770	1660	10
≤1655	1775	1665	15
≤1660	1780	1670	20
≤1665	1785	1675	25
≤1670	1790	1680	30
≤1675	1795	1685	35
≤1680	1800	1690	40

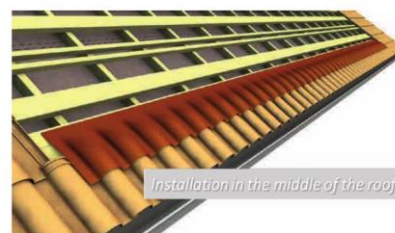


Universele kit – Installatie stap voor stap

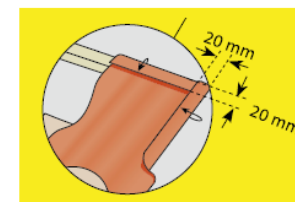
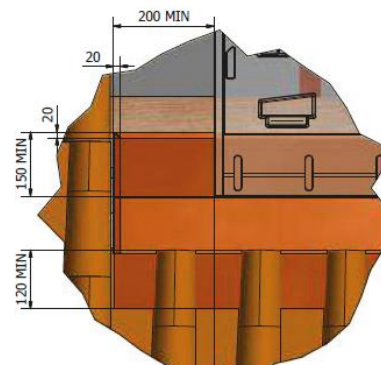
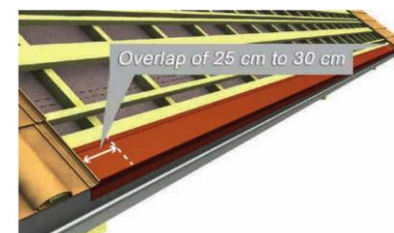
➤ Stap 3 : Plak de waterdichte strip



...with tiles underneath

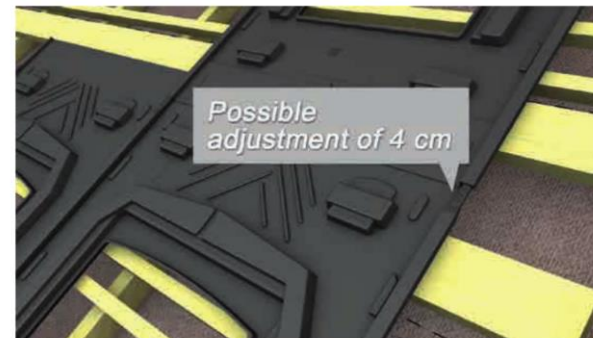
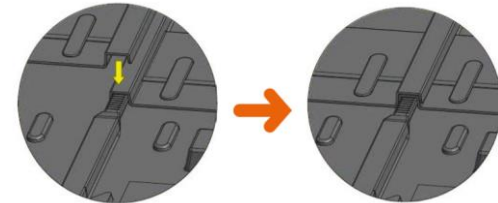
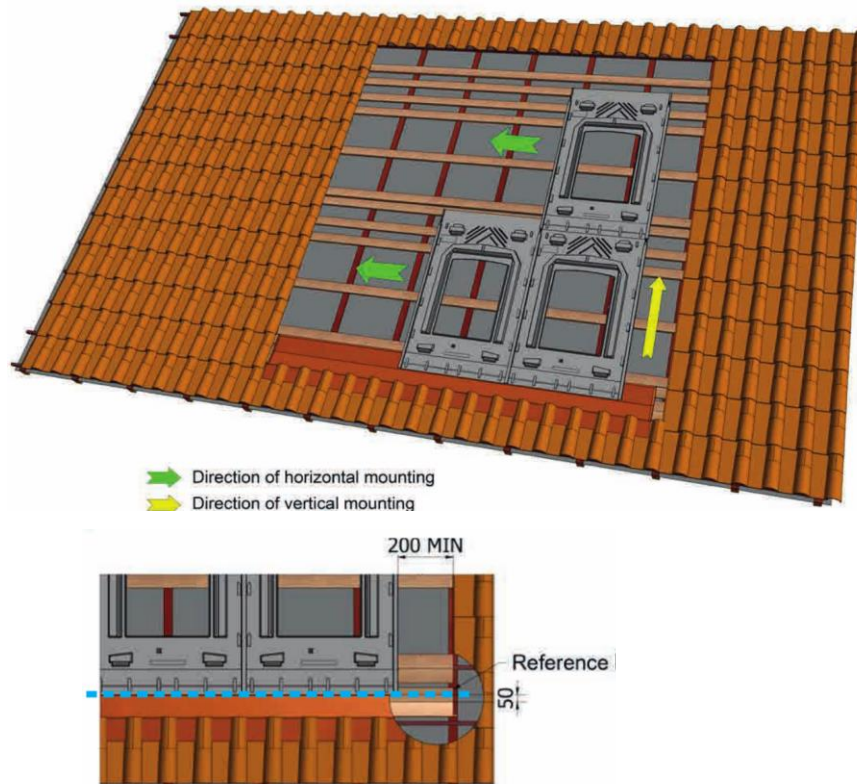


...straight to the eaves



Universele kit – Installatie stap voor stap

➤ Stap 3 : Monteer de GSE-frames



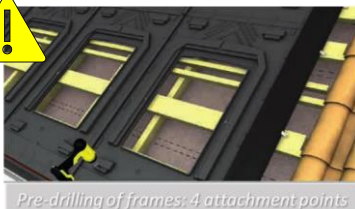
Universele kit – Installatie stap voor stap

➤ Stap 3 : Bevestiging van de GSE-frames

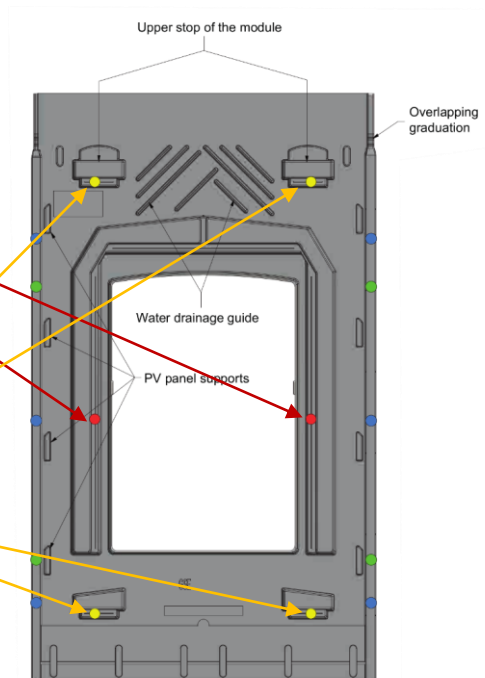
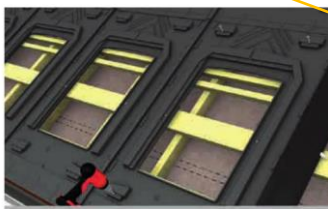
2 fixing points in the middle (**No pre-drilling**)



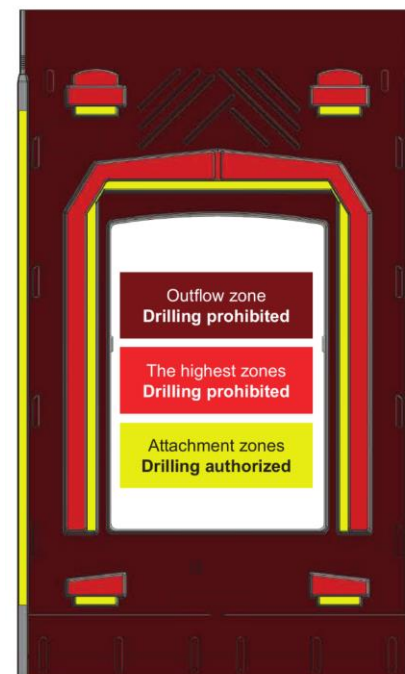
4 fixing points on the outer parts (**Pre-drilling needed**)



Pre-drilling of frames: 4 attachment points



- Frame fixation (**no pre-drilling**)
- Frame fixation (**10 mm pre-drilling**)
- Clamps fixation (6 clamps) (**10 mm pre-drilling**)
- Clamps fixation (4 clamps) (**10 mm pre-drilling**)

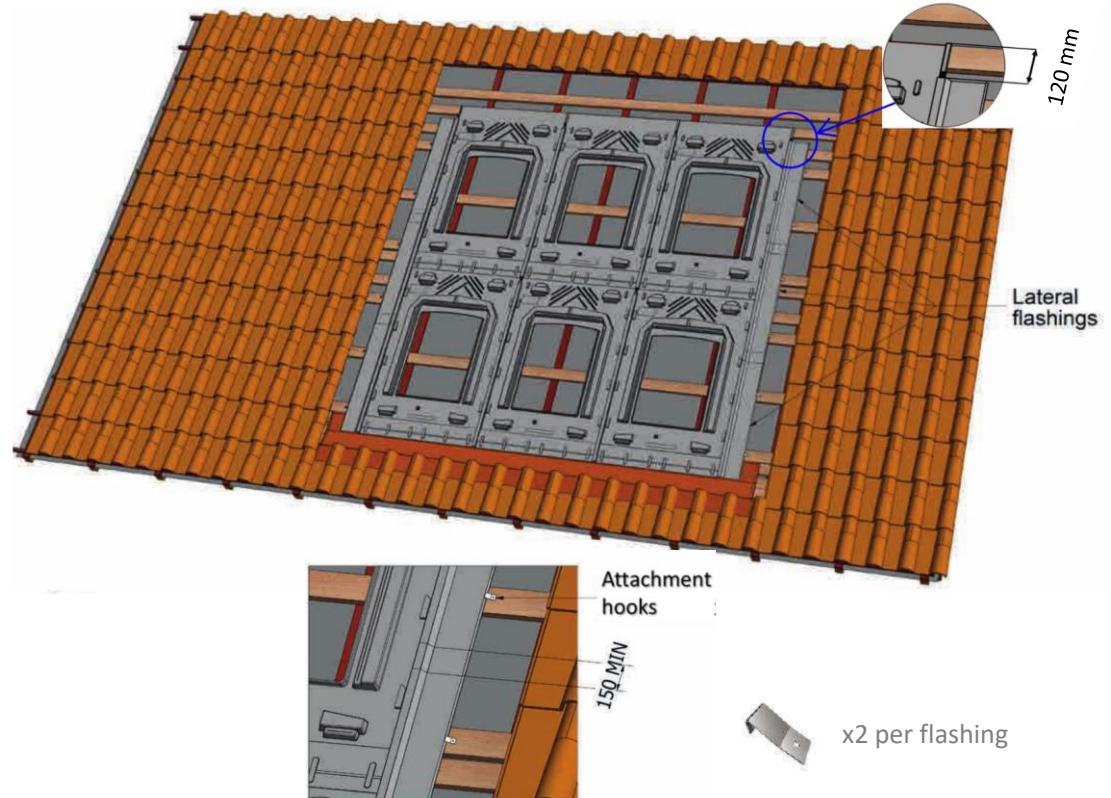
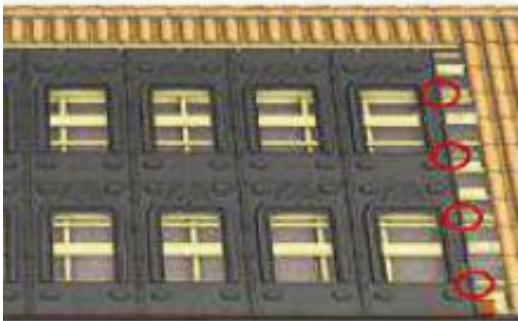
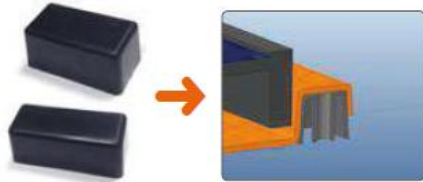


Universele kit – Installatie stap voor stap

➤ Stap 4 : Plaats de laterale gootstukken

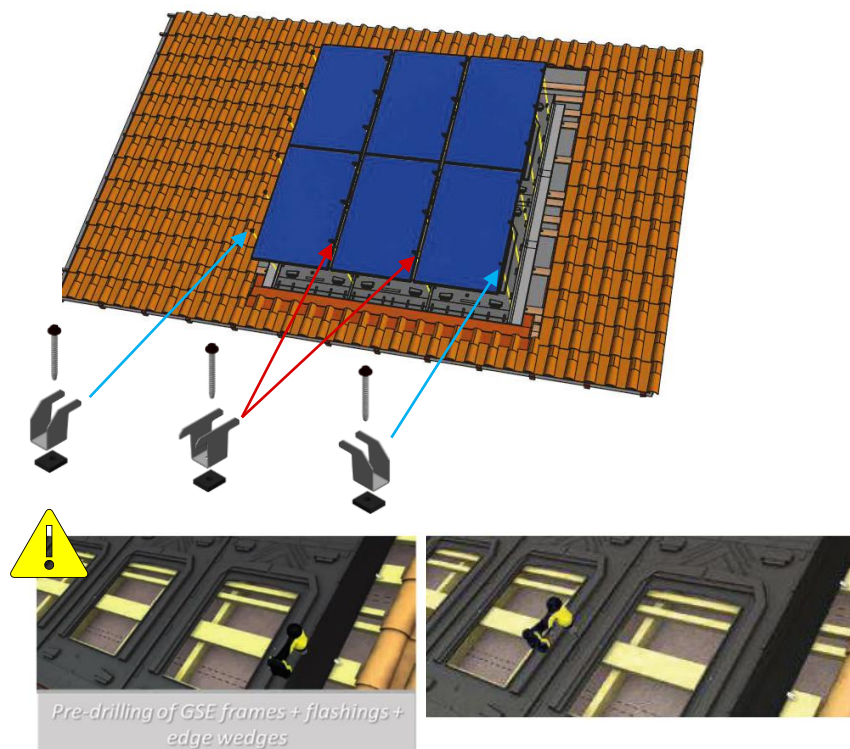


Prior, place the plastic wedges under the edges of the frames at the position of the end clamps

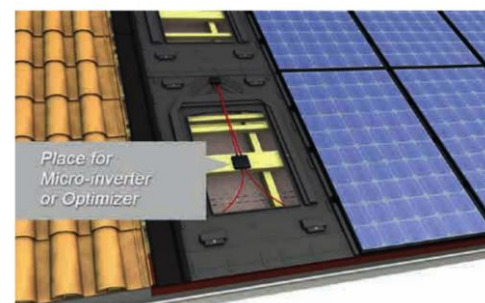


Universele kit – Installatie stap voor stap

➤ Stap 5 : Plaats en bevestig de PV-modules

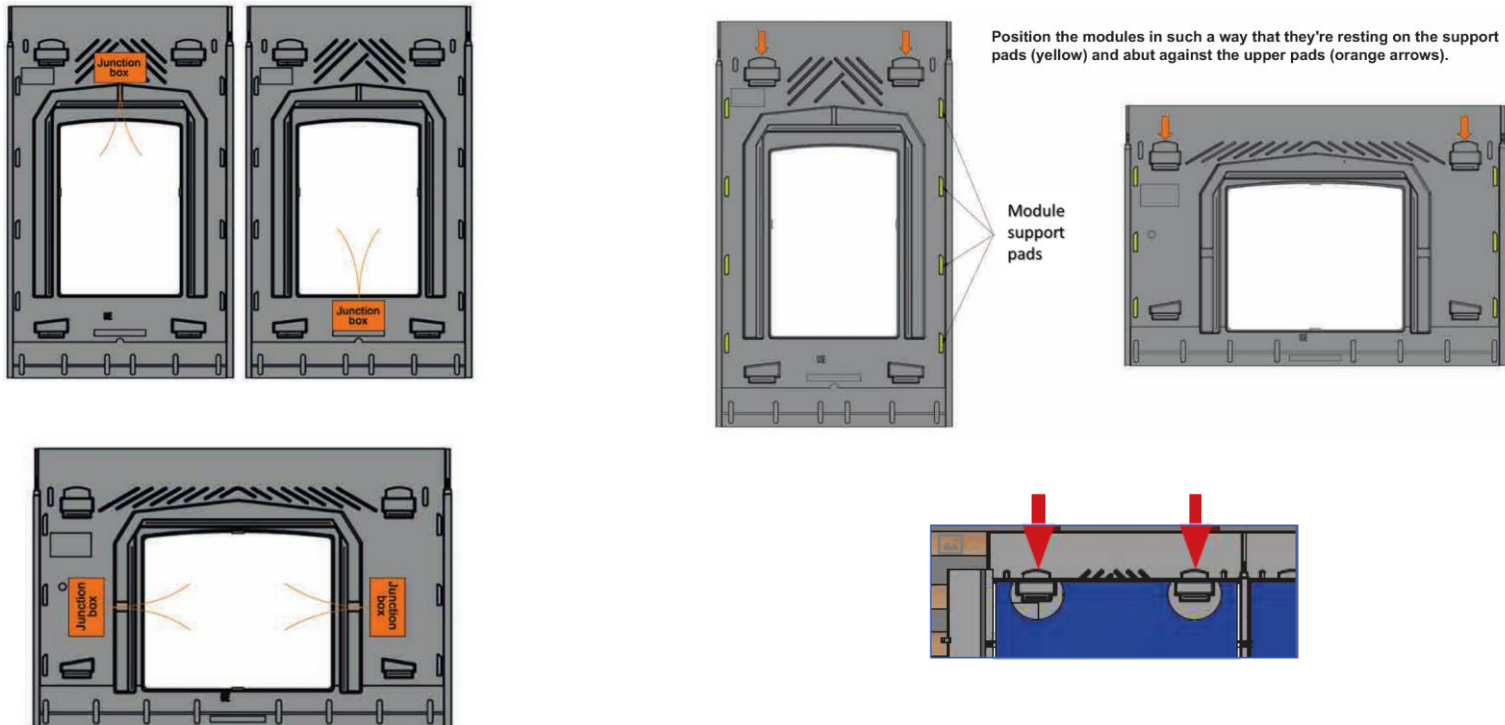


i Fixation of Micro-inverters / Optimizer



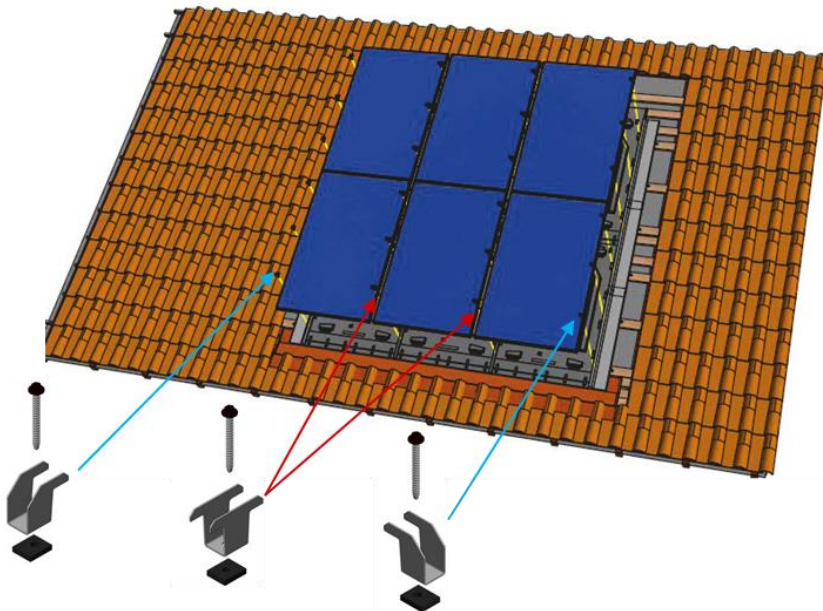
Universele kit – Installatie stap voor stap

➤ Stap 5 : Plaats en bevestig de PV-modules

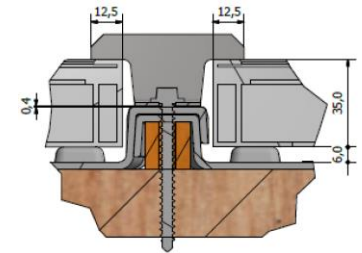
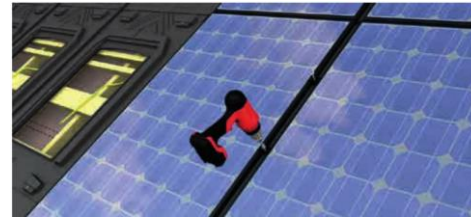


Universele kit – Installatie stap voor stap

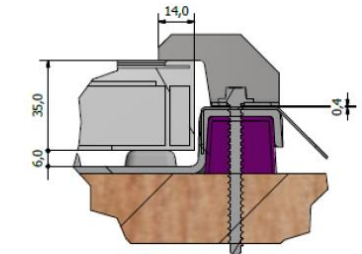
➤ Stap 5 : Plaats en bevestig de PV-modules



Fixation of the middle clamps

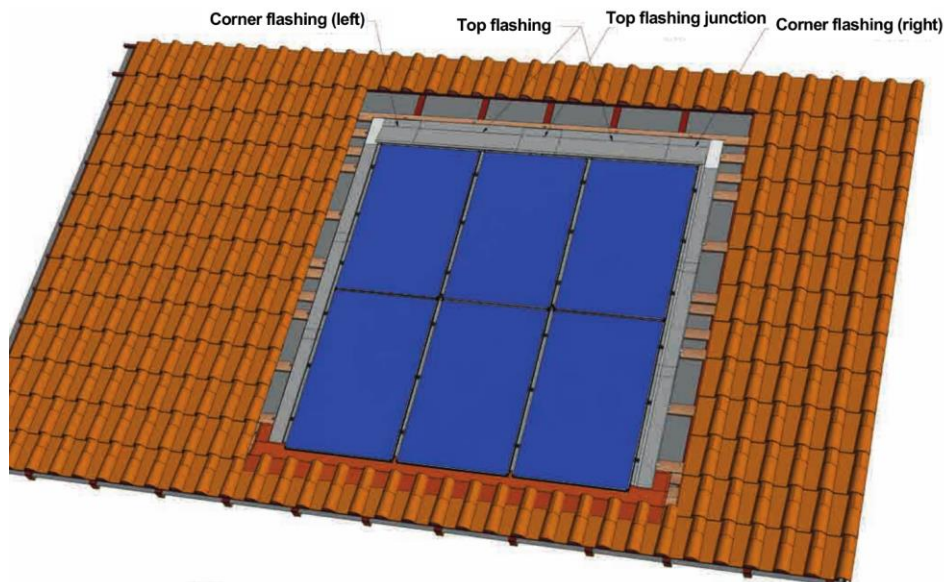


Fixation of the end clamps



Universele kit – Installatie stap voor stap

➤ Stap 5a : Installeer de bovenste gootstukken (Optie 1)

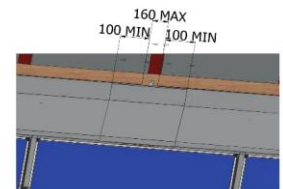
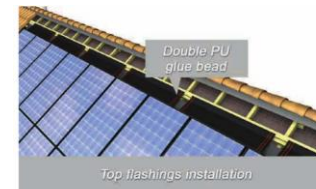


x2 per flashing

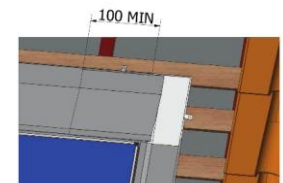
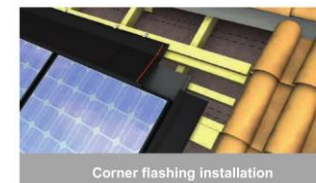
- Top Flashing + attach angle



- Top flashing junction



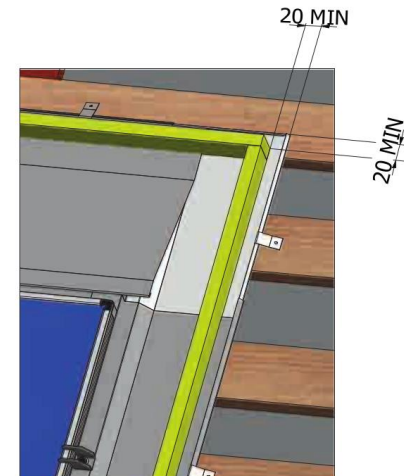
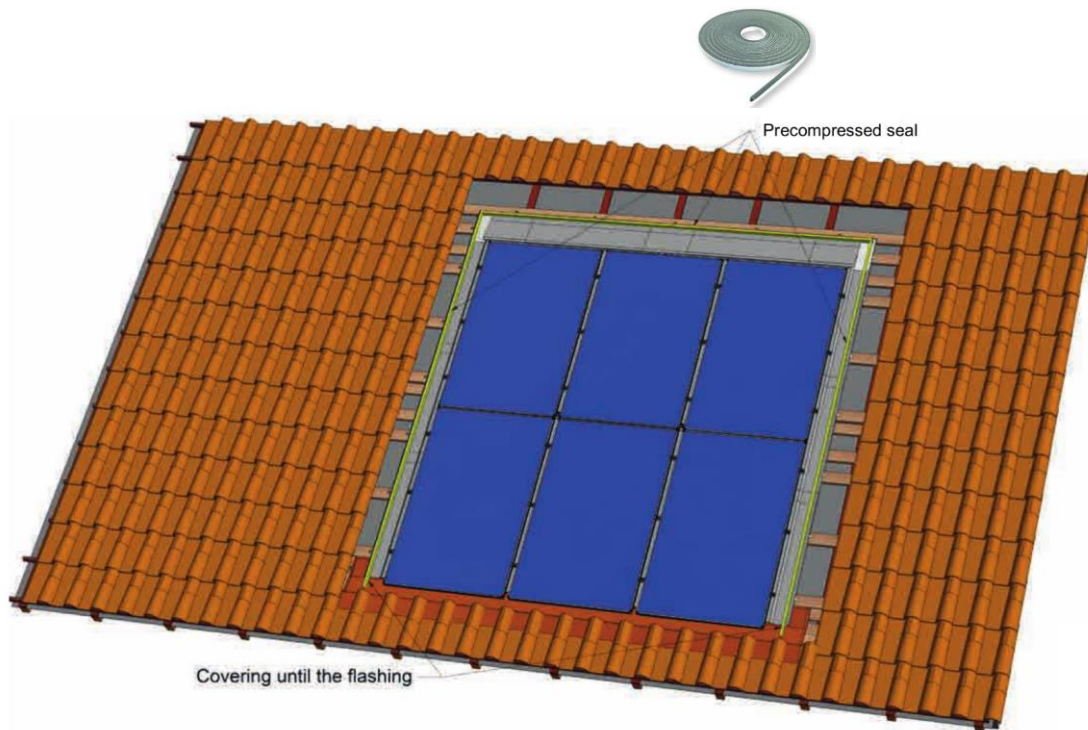
- Corner flashings



Universele kit – Installatie stap voor stap

➤ Stap 5a : Installeer het bovenste gootstuk (Optie 1)

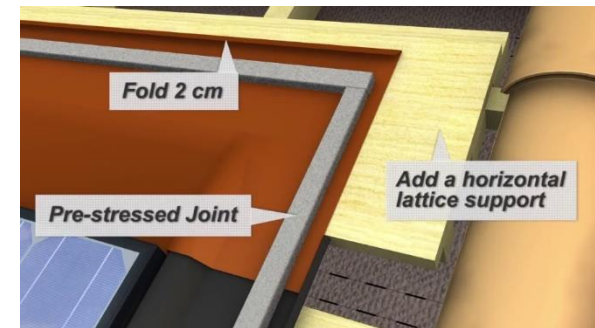
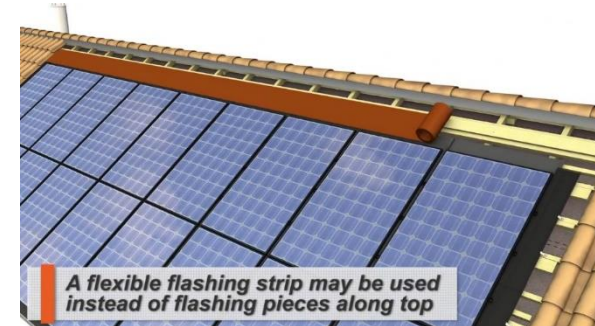
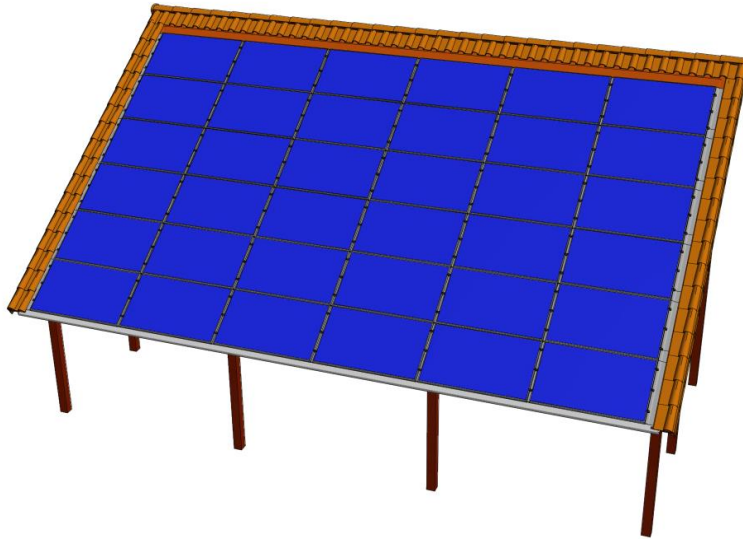
- Breng het voorgeperste schuim aan



Universele kit – Installatie stap voor stap

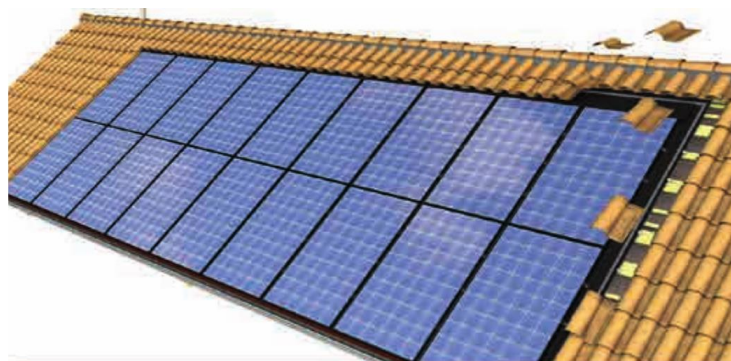
➤ Stap 5b : Breng de waterdichte strip aan (Optie 2)

- Laag hellend dak $\leq 17^\circ$
- Gemakkelijker / sneller te installeren

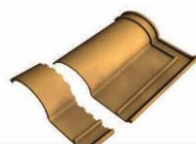
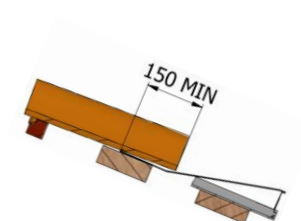
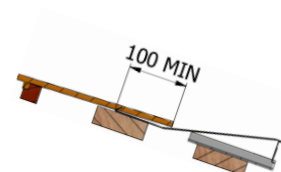


Universele kit – Installatie stap voor stap

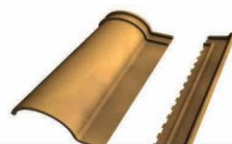
➤ Stap 6 : Plaats de dakbedekking



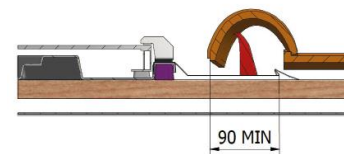
Installation of the cutted tiles



Tiles cutting for top flashing

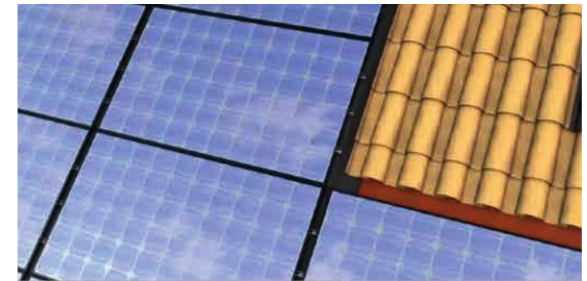
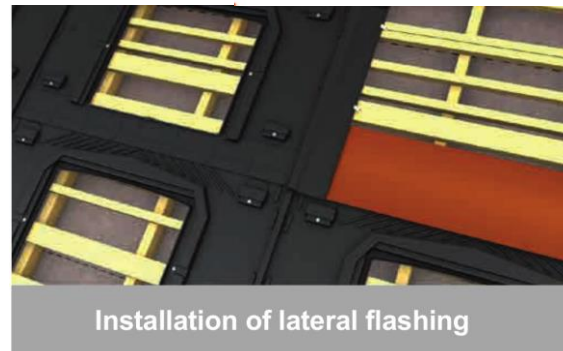
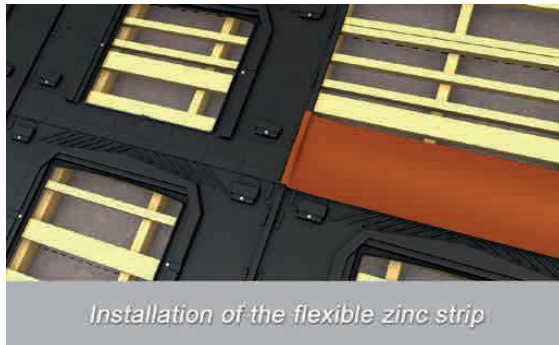
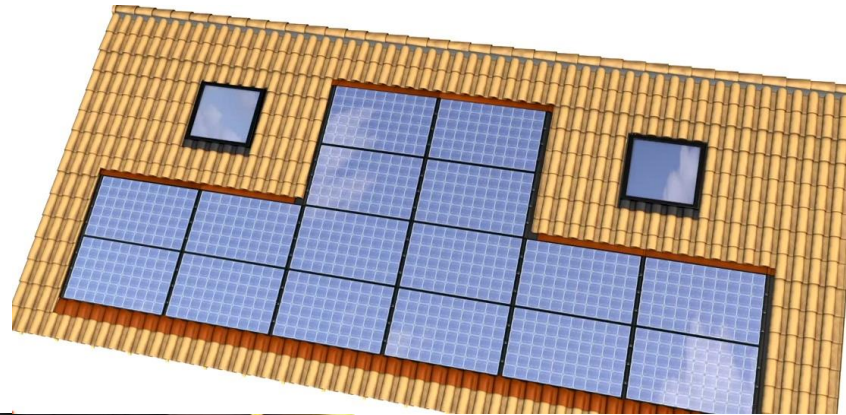
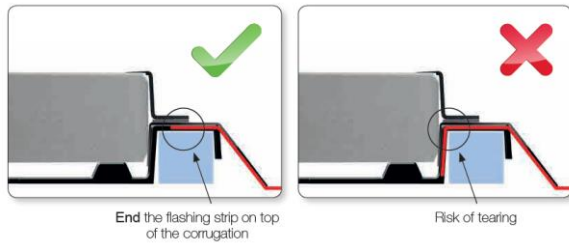


Tiles cutting for left flashing



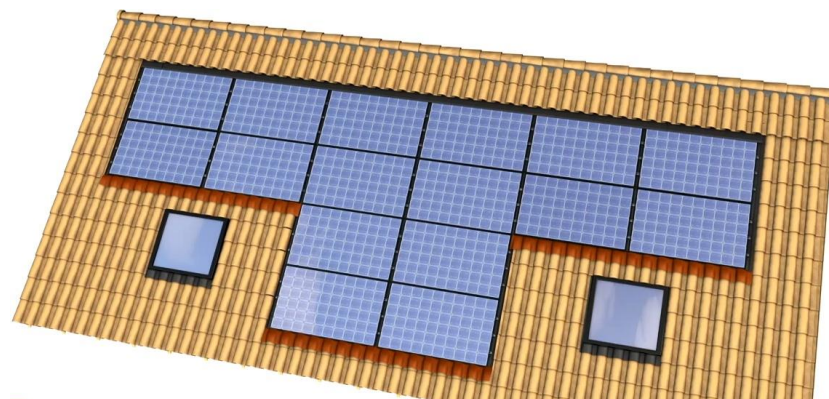
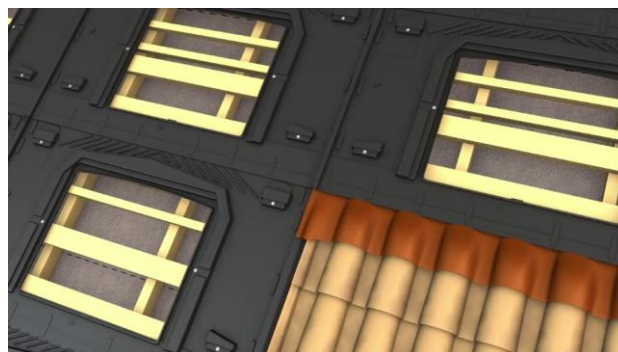
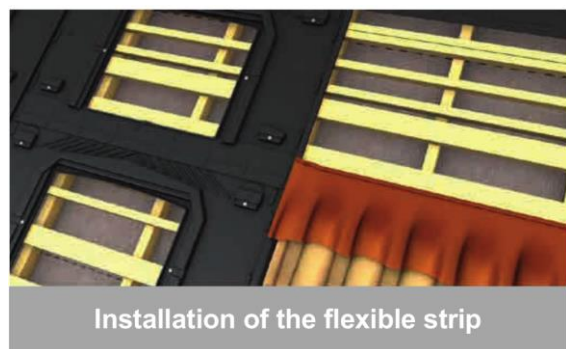
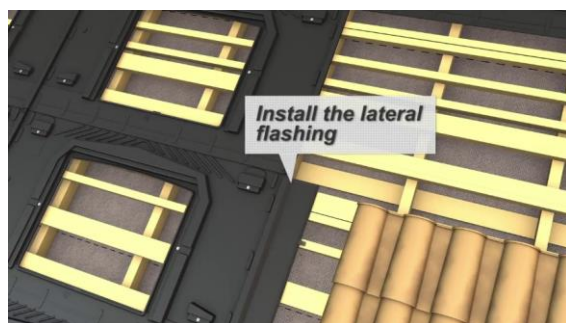
Universele kit – Installatie stap voor stap

➤ Specifieke gevallen : PV- veld in « L » vorm



Universele kit – Installatie stap voor stap

➤ Specifieke gevallen : PV- veld in « T » vorm



GSE IN-ROOF SYSTEM™

SPECIFIEKE KIT V. TS-1

GEBOGEN PAN

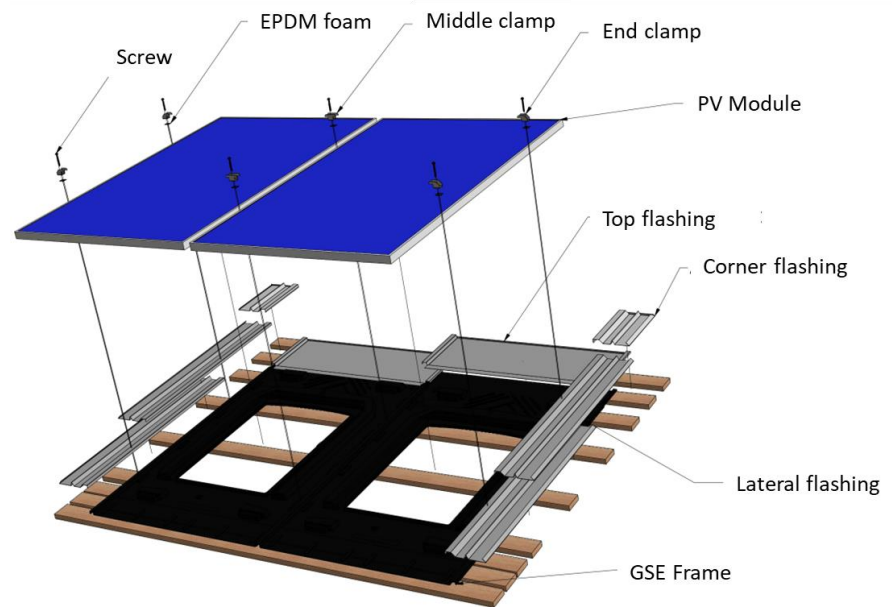
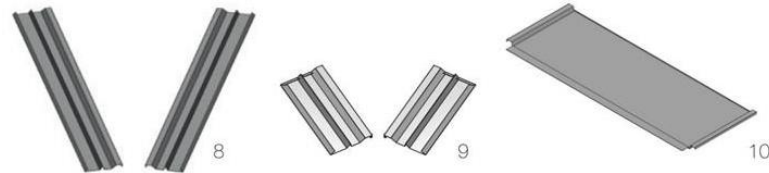
Presentatie & Installatie



GSE In-roof V. TS-1 – Componenten

➤ Algemene beschrijving

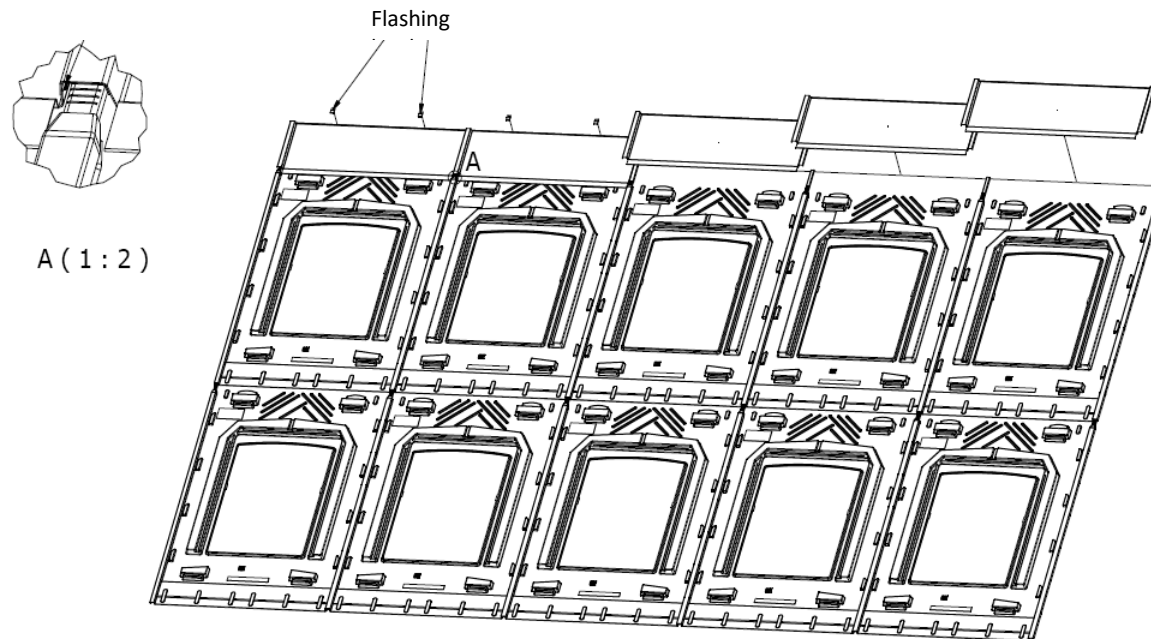
- 6 afdekdelen
 - 2 zij afdekplaten
 - 1 boven afdekplaat
 - 1 bovenaansluiting
 - 2 hoekdelen



➤ Toepassingsgebied

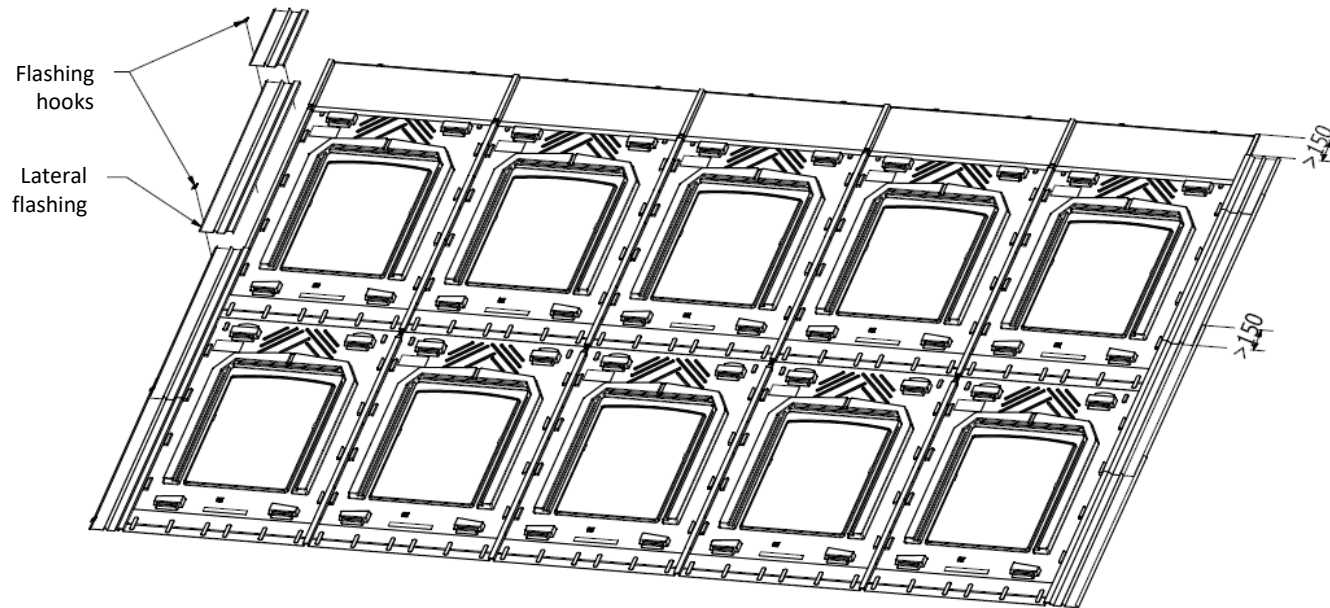
- Alleen beschikbaar om in portrait te plaatsen
- Wil je toch Landscape plaatsen, gebruik dan alleen de zij- en hoekdelen en gebruik een waterdichte strip voor de boven aansluiting.

➤ Stap 1 : Boven afdekplaten (Enkel bij portrait plaatsing)

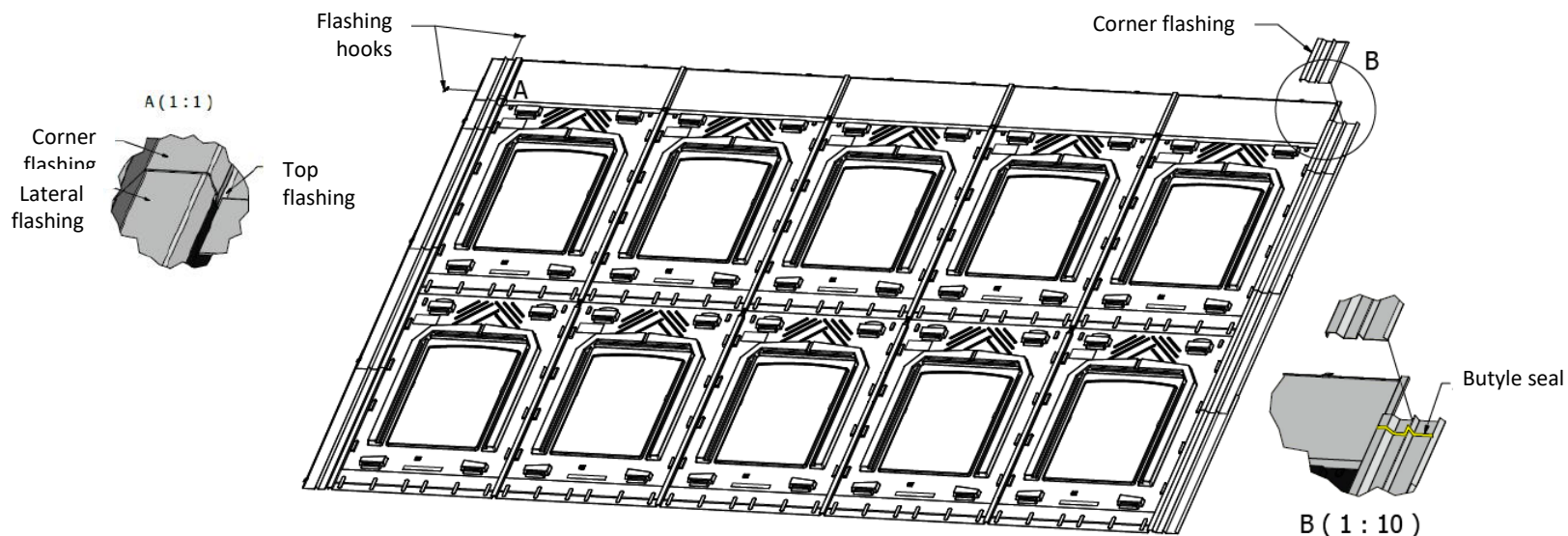


NB: Gebruik bij Landscape plaatsing, een waterdichtingsstrip.

➤ Stap 2 : Zij afdekplaten

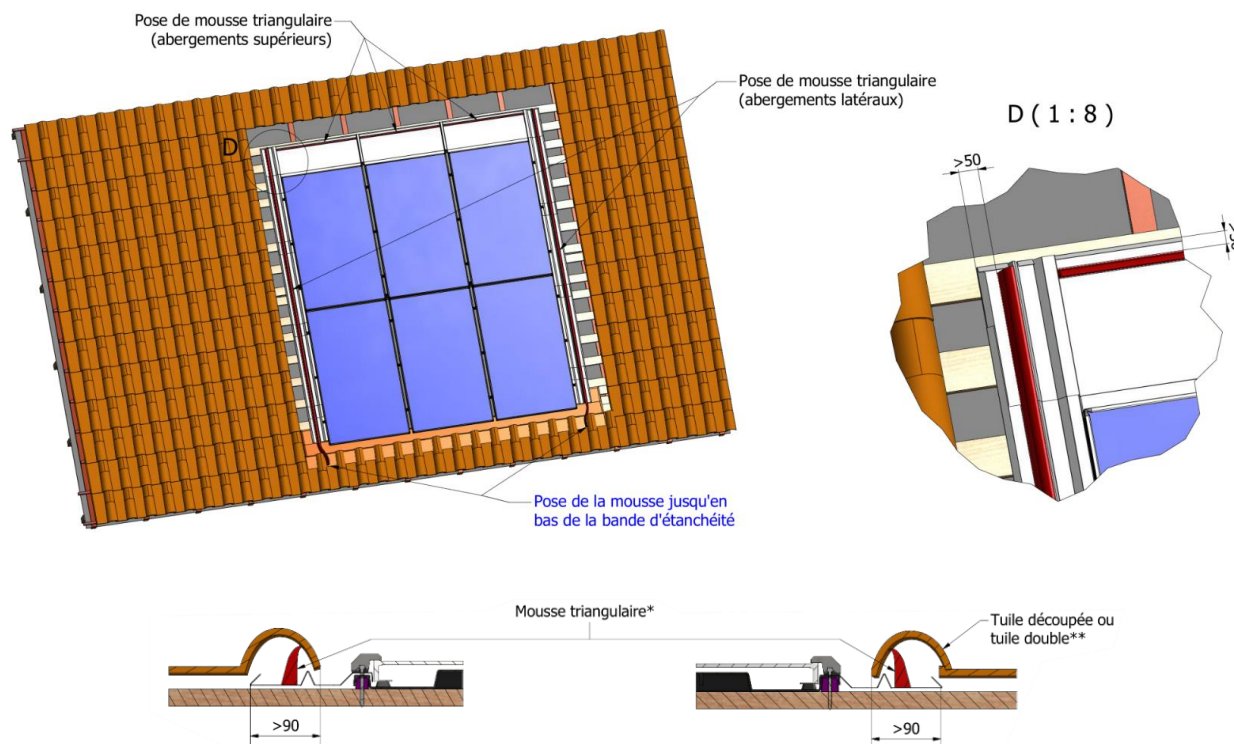


➤ Stap 3 : Hoek afdekplaten (Enkel bij portrait plaatsing)



NB: Gebruik bij Landscape plaatsing, een waterdichtingsstrip.

➤ Laatste stap : Plaats de dakelementen



GSE IN-ROOF SYSTEM™

SPECIFIEKE KIT V. A-1 - LEIEN

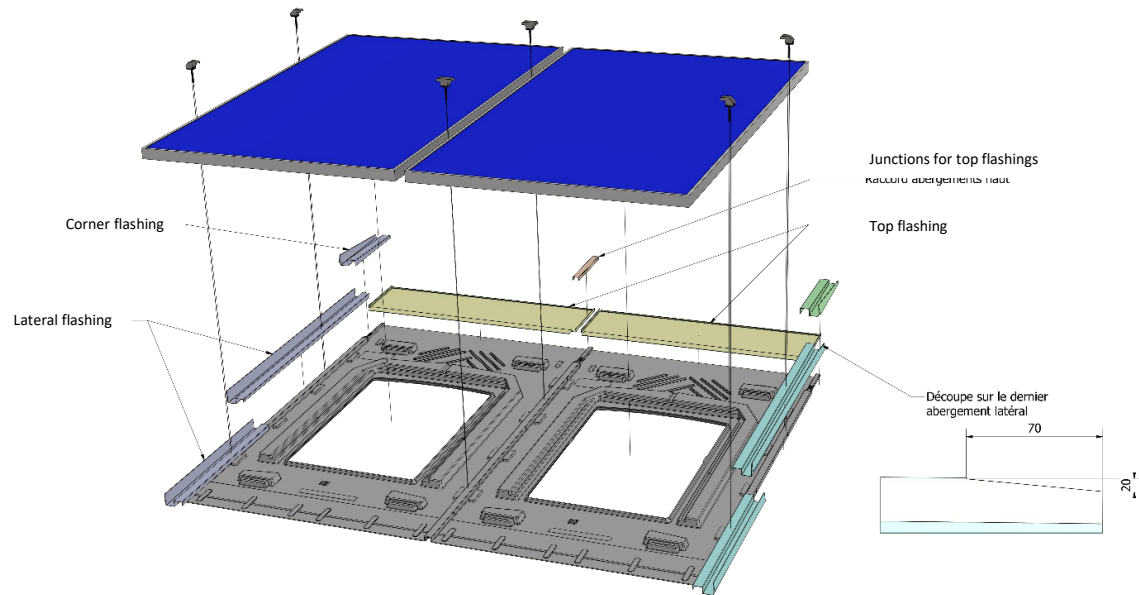
Presentatie & Installatie



GSE In-roof V. A-1 – Componenten

➤ Algemene beschrijving

- 6 afdekdelen
 - 2 zij afdekplaten
 - 1 boven afdekplaat
 - 1 bovenaansluiting
 - 2 hoekdelen



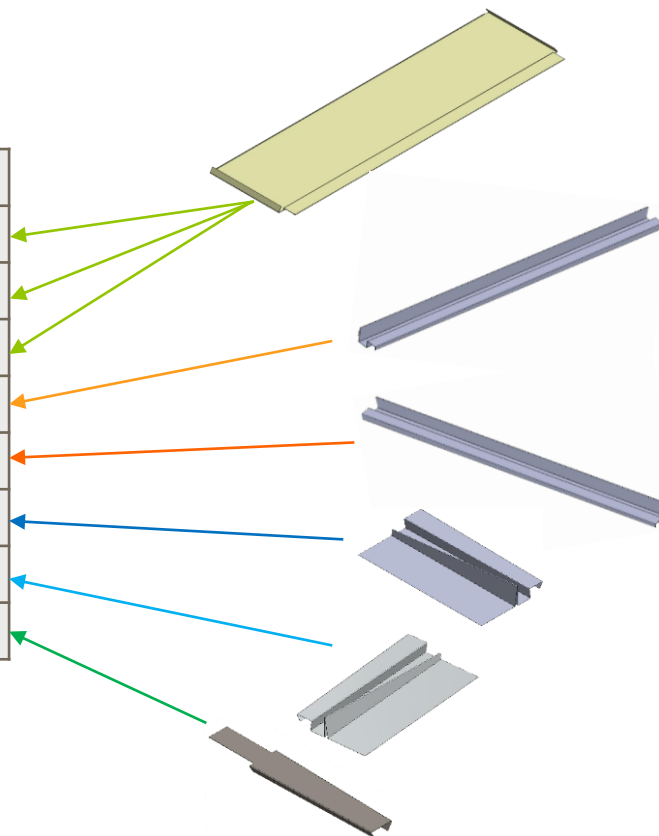
➤ Toepassingsgebied

- Alleen beschikbaar om in portrait te plaatsen
- Wil je toch Landscape plaatsen, gebruik dan alleen de zij- en hoekdelen en gebruik een waterdichte strip voor de boven aansluiting.

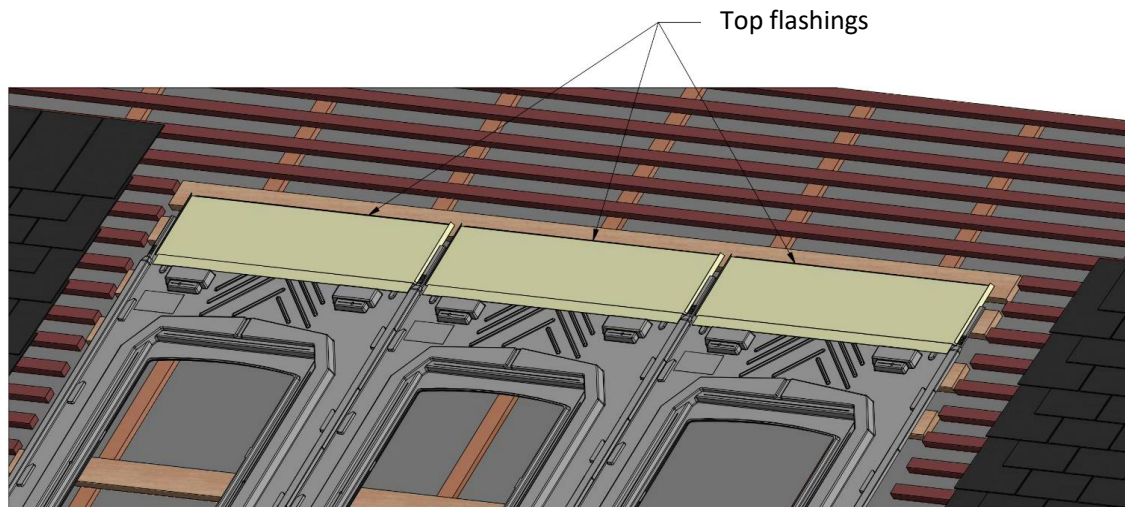
GSE In-roof V. A-1 – Components

➤ Lijst van onderdelen

DESIGNATION GSE	REFERENCES GSE
Top flashing 992-v.A-1 ATEC Slate	ART101567
Top flashing 1001-v.A-1 ATEC Slate	ART101014
Top flashing 1046-v.A-1 ATEC Slate	ART100820
Left Lateral flashing -v.A-1 ATEC Slate	ART100568
Right Lateral flashing -v.A-1 ATEC Slate	ART100429
Left corner flashing -v.A-1 ATEC Slate	ART101291
Right corner flashing -v.A-1 ATEC Slate	ART100195
Top flashing junction -v.A-1 ATEC Slate	ART100110

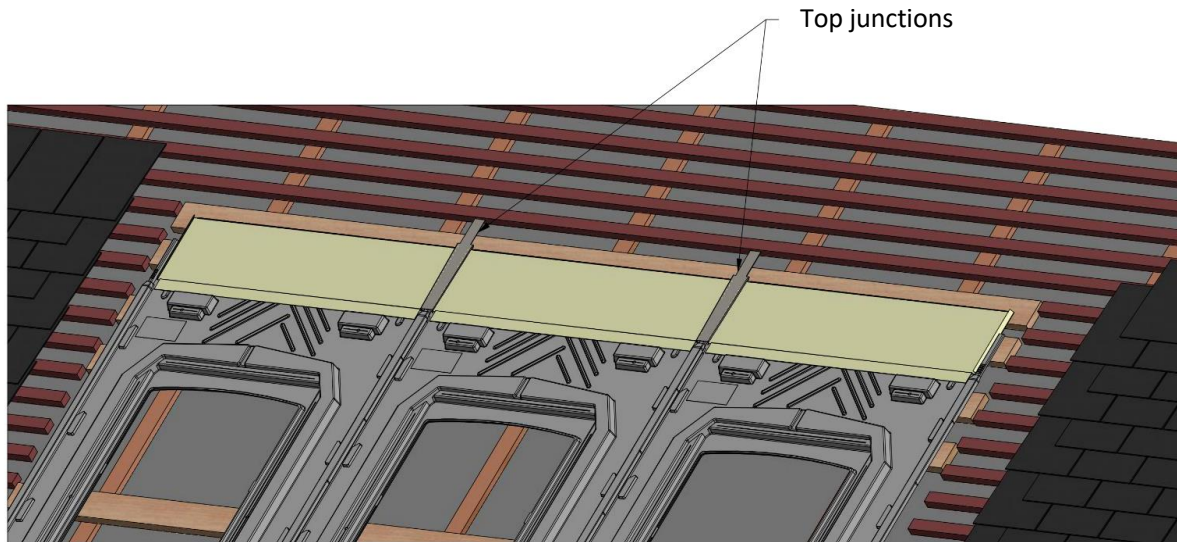


➤ Stap 1 : Bovenste afdekplaat (Alleen bij portrait installatie)



NB: Gebruik bij Landscape plaatsing, een waterdichtingsstrip.

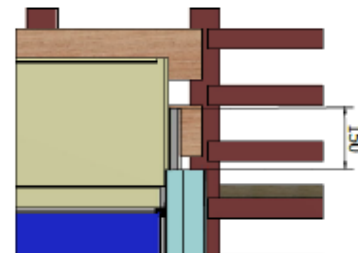
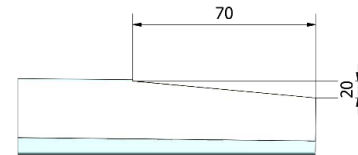
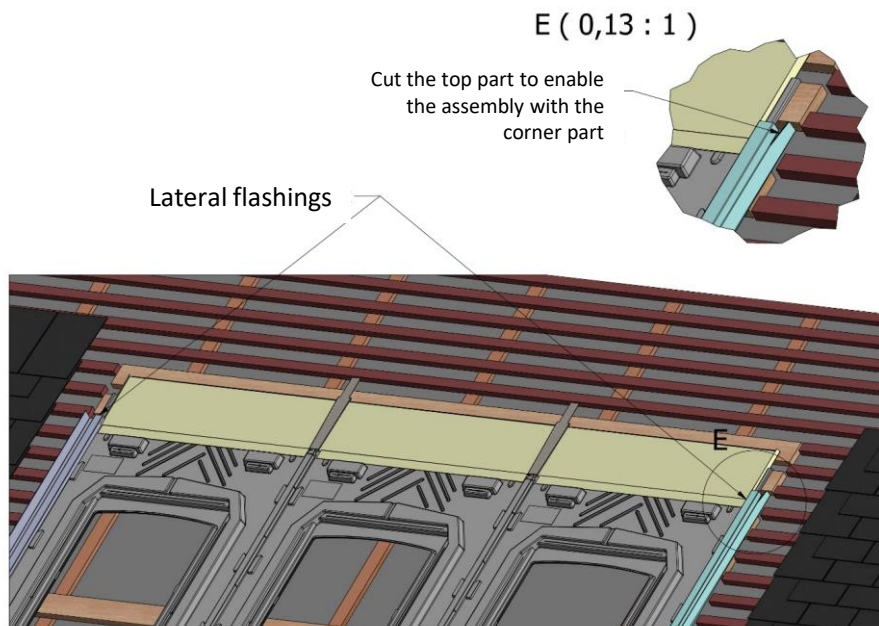
➤ Stap 2 : Bovenste verbindingen (Alleen bij portrait installatie)



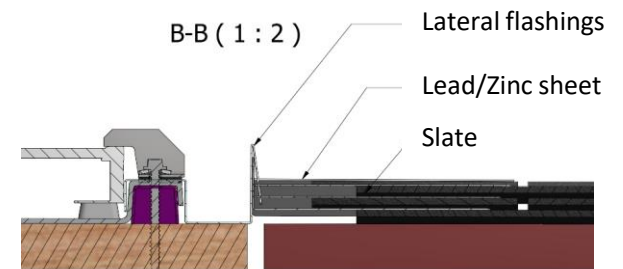
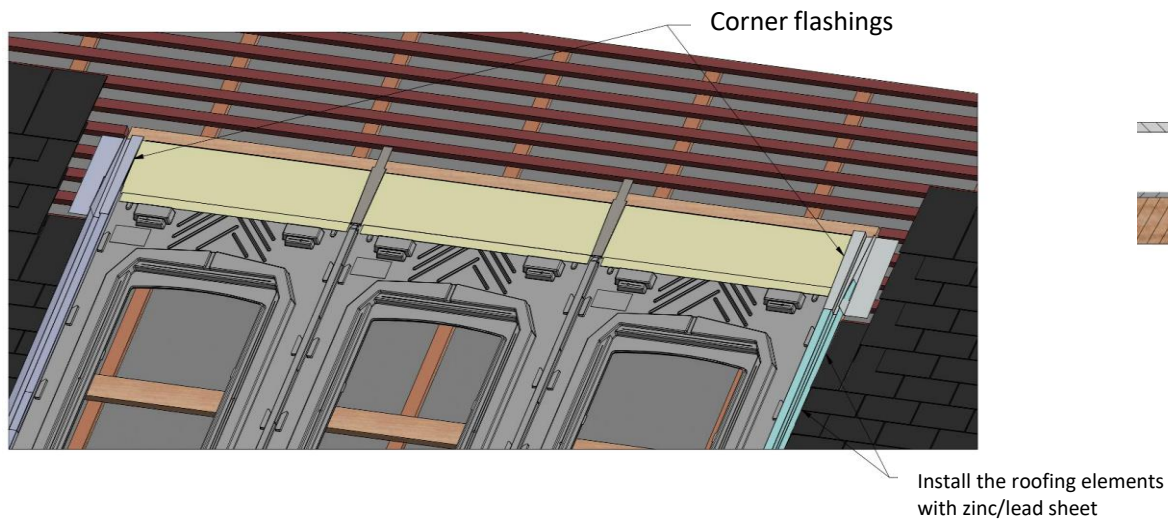
NB: Gebruik bij Landscape plaatsing, een waterdichtingsstrip.

GSE In-roof V. A-1 – Installatie

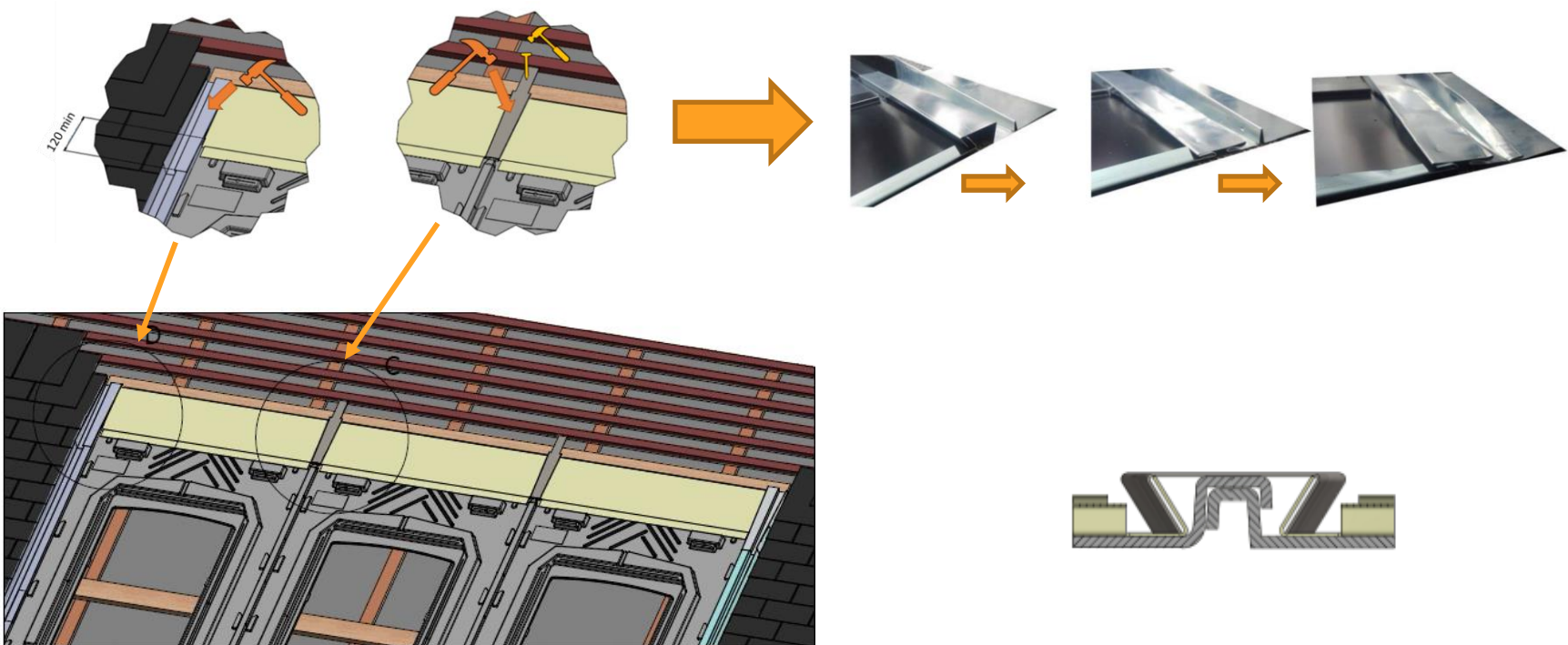
➤ Stap 3 : Zij afdekplaat



➤ Stap 4 : Hoek afdichting

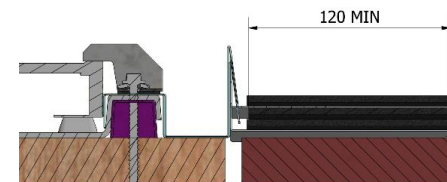
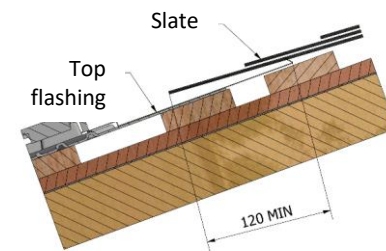
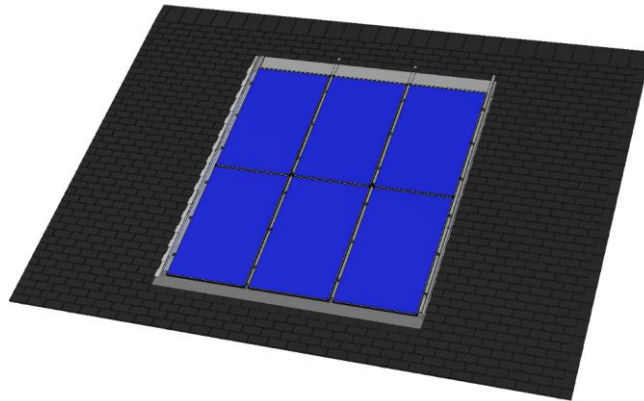


- Stap 5 : Klik de bovenste verbinding en de hoekafdekkingen vast



GSE In-roof V. A-1 – Installation

➤ Laatste stap: Plaats de dakelementen



Bedankt voor uw aandacht



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