



USER MANUAL

In-Roof Configurator v3.2

Created on : 11/06/2020

GSE Intégration - Engineering

Introducing the tab



WELCOME TO THE SIZING AND CONTROL TOOL
OF GSE INTEGRATION IN-ROOF SYSTEM



You will find through this application the tool that will allow you to calculate and size your orders



Products : **GSE IN-ROOF**

GSE Intégration
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- 1 Select the language of your choice
- 2 Go to the next tab by clicking on « Project »

Introducing the tab



Project

1 Fill in the Project reference to show it in the quote (optional)

5 Go to the next tab by clicking on « Layout ». It's obligatory to fill in the information Length(L), Width (R), the PV module dimensions and to have chosen the GSE frame to go to the next tab

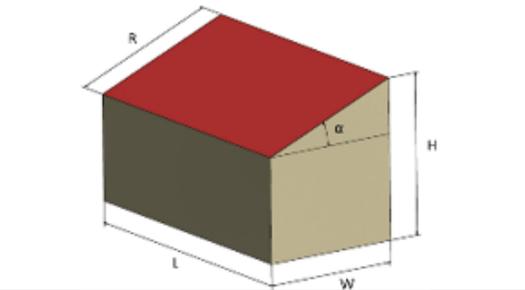
➤ Go to the last tab by clicking on the « Home » button

*: Mandatory Field

Project : Roof Characteristics

Roof Dimensions

Monopitch Duopitch



Length (L) : * m

Roof Slope (α) : ° %

Roof Width (R) : * m ⓘ

House Width (W) : m

Roof covering :



- Inform **Monopitch** or **Duopitch**
- Fill in the **Length (L)**
- If you know the width, click on the button **Roof Width (R)** and fill it in
- If you don't know the Roof Width, click on the selection button **House Width (W)** and fill in the **Roof Slope (α)** and the House width (W)
- Choose the **roof covering** with the drop-down menu

Project : PV module Characteristics

Module Dimensions

Compliant with the "Avis Technique"
(French users only)

PV modules compliant with the "Avis Technique"

Others

Dimensions :

Height (H) : mm

Width (L) : mm

Thickness (E) : mm

Module Power : Wc

Technology :

Split junction box

Rear support bar(s)

Portrait Landscape

Corresponding GSE Frame :

- The first section dealing about « Avis Technique » is only for French users.
- Enter directly the features of the module you want to use:
 - **Height (H)**
 - **Width (L)**
 - **Thickness (E)**
 - **Module Power (optional)**
- If the module used has split junction boxes or reinforcement bars, check the appropriate boxes
- Choose the configuration: Portrait or Landscape
- Finally, select the GSE Frame of your choice. If only one frame matches your request is automatically selected
- If you see the message "No frames found," you can contact us at the following email address: contact@gseintegration.com

* : Champ à remplir obligatoirement

Project : Kit components

Kit components

Flashings :

Universal Kit Specific Kit

Color :

Lateral connection :

Top connection :

Eaves connection :

FLEXALU Color : Black Red

FLEXALU Width : 500 mm

Number of Clamps : 4 6

Roofing Underlay :



- Choose the flashings kit wanted for your installation
 - The **Universal kit** allows a simple installation on all roof covering types
 - The **Specific Kits** are dedicated to each type of coverage and rely on more technical implementation to address more restrictive areas of employment (e.g., placing hooks on slate or flat tiles)
- Then select **the color of the flashings** for your installation: black or alu
- Select the type of **lateral connection**: Lateral flashings or none if you want to make your own connections
- Select the type of **top connection**: Top Flashings, Flexalu or none
- Select the type of **eaves connection** : Flexalu or none

Project: Kit components

Kit components

Flashings :

Universal Kit Specific Kit

Color :

Lateral connection :

Top connection :

Eaves connection :

FLEXALU Color : Black Red

FLEXALU Width : 500 mm

Number of Clamps : 4 6

Roofing Underlay : 

- Select the **color of Flexalu** desired : black or red
- Select the **width of Flexalu** desired :
 - Black 330mm or 500mm
 - Red 500mm
- Select the **number of clamps** : 4 or 6
- If you want to include **an under-roof screen** in your installation check the corresponding box
- Go to the next tab by clicking on the "Layout" button

Introducing the tab





2 Bill of material

CALCULATE PARTS 4

KIT GSE INTEGRATION	
GSE Portrait Frame 1710 / 1005	9
Lateral Flashing P30 - Grey	12
Top Right Corner Flashing - Grey	1
Top Left Corner Flashing - Grey	1
Universal Top Centre Flashing - Grey L 1500mm	2
GSE Flashing Hook	33
Top Corner Piece Flashing - Grey L1400mm (To Join Module to Top Centre Flashings)	2
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	8
Top Junction Flashing - Grey L 375mm	1
GSE Integration Screw - 6.3mmx60mm - Grey	54
GSE Integration Screw - 6.3mmx60mm - Black	24
Double Clamp H21 - Steel - Grey - In Roof	12
Simple Clamp H21 - Steel - Grey - In Roof	12
Left Wedge for Simple Clamp - In Roof	6
Right Wedge for Simple Clamp - In Roof	6
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	24
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	3
Flexalu Waterproof Strip Red 500mm (5 m roll)	1

1 Draw the PV array

1

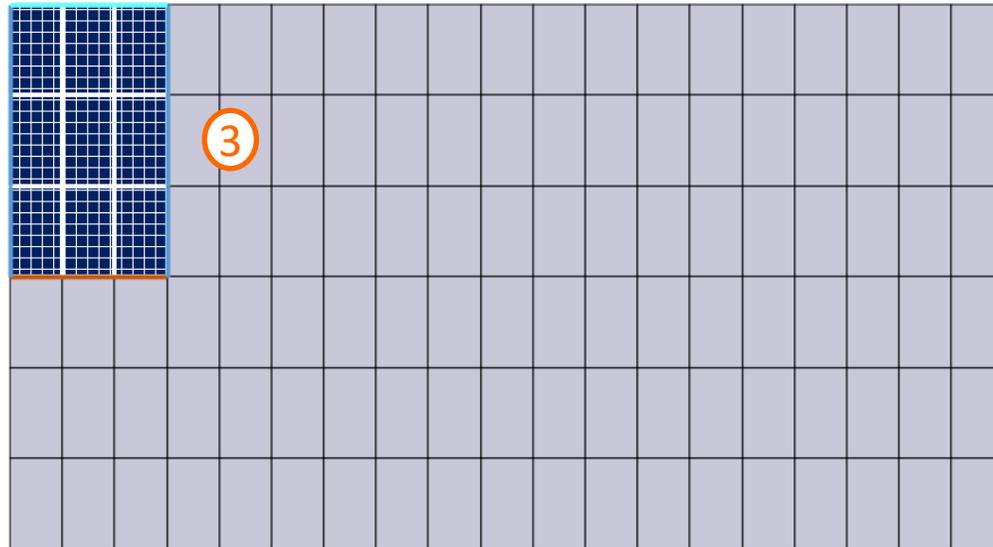
Set up a predefined PV array	Lines :	3
	Columns :	3

2

INSERT

RESET

| : Top Flashing
| : Lateral Flashing
| : FLEXALU Waterproofing Strip



- Return to the home page by clicking on the "Home" button
- Go back to the previous tab by clicking on the "Project" button
- Go to the next tab by clicking on the "Roof" button
- Go directly to the quote by clicking on the "Cost" button

Layout : Draw the desired PV field

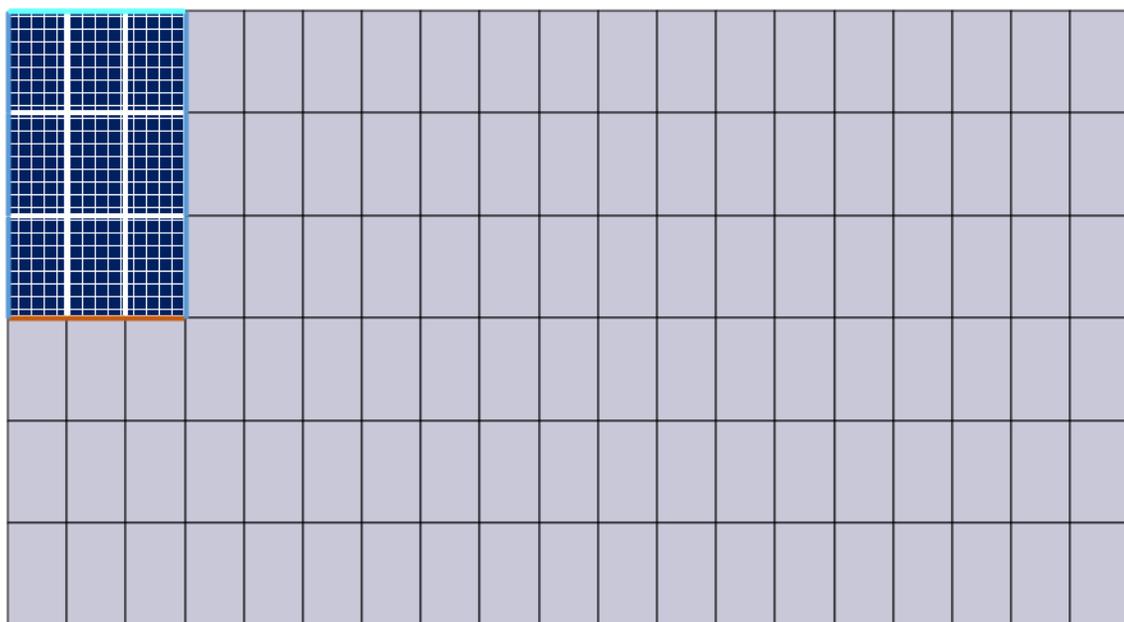
1 Draw the PV array

1 Set up a predefined PV array

Lines :	3
Columns :	3

2 INSERT RESET

┌ : Top Flashing
├ : Lateral Flashing
└ : FLEXALU Waterproofing Strip



- Either automatically by entering the number of **lines** and **columns** wanted then by clicking on **insert**

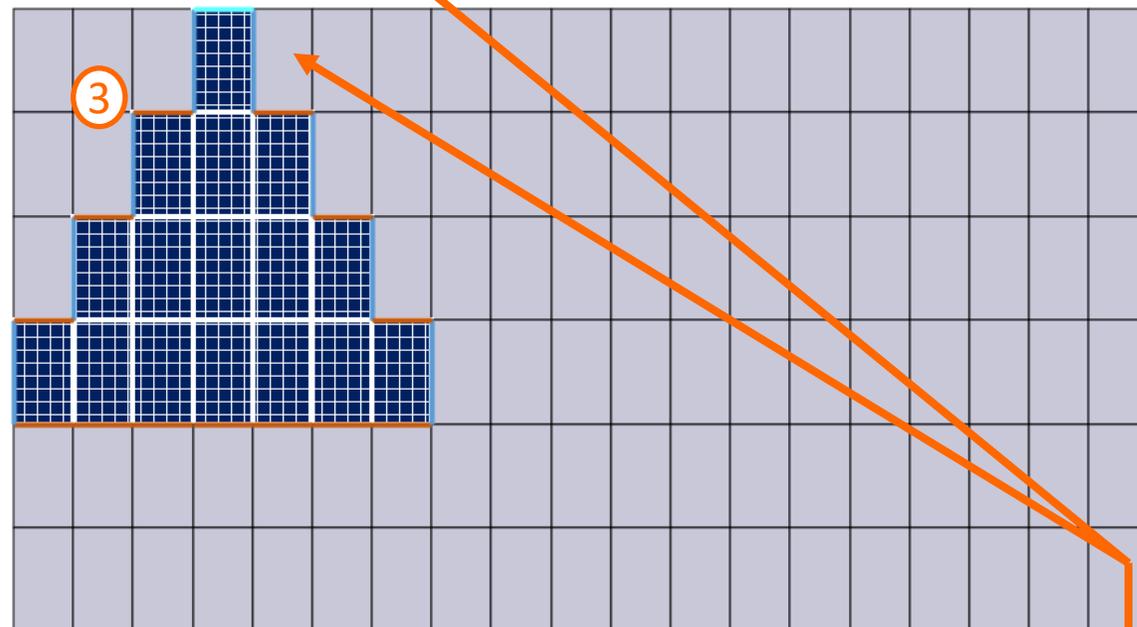
1 Draw the PV array

1 Set up a predefined PV array

Lines :	4
Columns :	7

INSERT RESET

┌ : Top Flashing
├ : Lateral Flashing
└ : FLEXALU Waterproofing Strip



- Either manually by clicking directly on the grey rectangles. Especially useful for drawing PV fields with "exotic" configurations
- It's also possible to mix these two ways by first inserting a rectangular PV field and then adding and/or removing modules manually.



2 Bill of material

CALCULATE PARTS

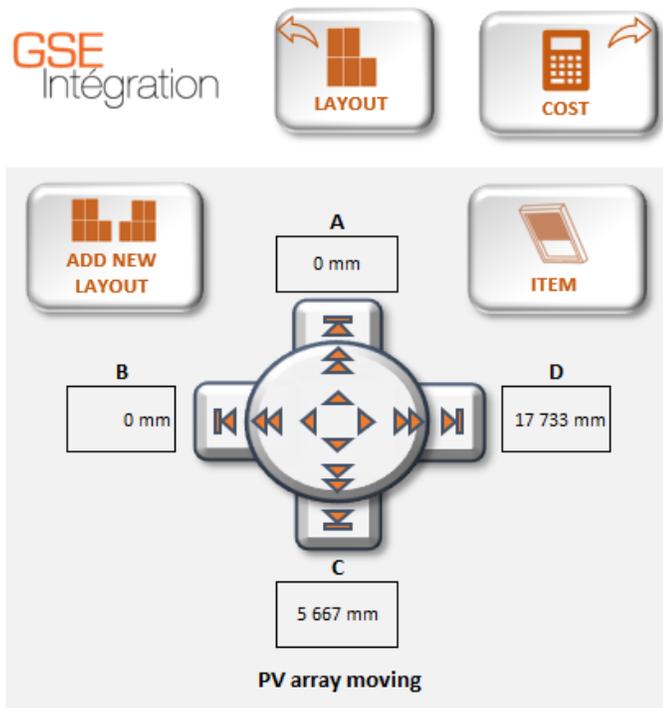
4

KIT GSE INTEGRATION	
GSE Portrait Frame 1710 / 1005	9
Lateral Flashing P30 - Grey	12
Top Right Corner Flashing - Grey	1
Top Left Corner Flashing - Grey	1
Universal Top Centre Flashing - Grey L 1500mm	2
GSE Flashing Hook	33
Top Corner Piece Flashing - Grey L1400mm (To Join Module to Top Centre Flashings)	2
Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	8
Top Junction Flashing - Grey L 375mm	1
GSE Integration Screw - 6.3mmx60mm - Grey	54
GSE Integration Screw - 6.3mmx60mm - Black	24
Double Clamp H21 - Steel - Grey - In Roof	12
Simple Clamp H21 - Steel - Grey - In Roof	12
Left Wedge for Simple Clamp - In Roof	6
Right Wedge for Simple Clamp - In Roof	6
EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	24
Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	3
Flexalu Waterproof Strip Red 500mm (5 m roll)	1

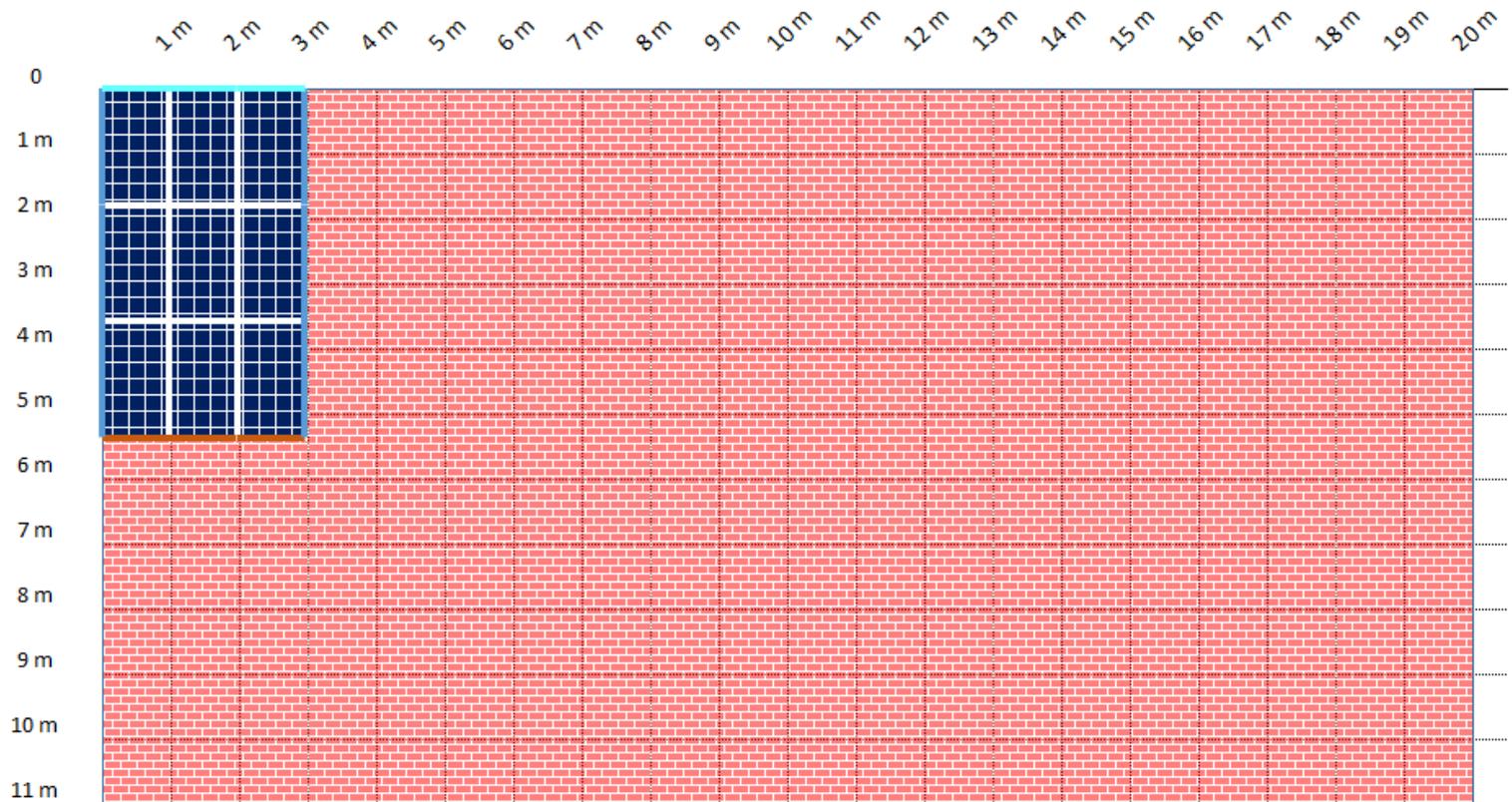
- View the **list of material** necessary by clicking on « **Calculate parts** »
- If a change is applied to the PV field, it's essential to re-click on the "Calculate parts" button to update the list.
- Go to the next tab by clicking on the "Roof" button

Introducing the tab

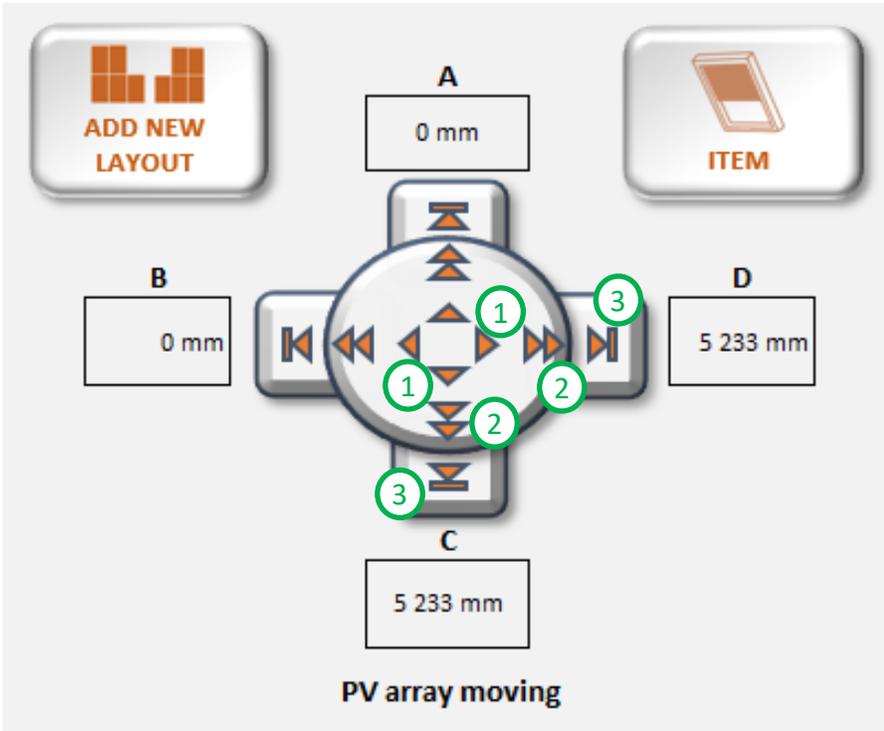




- Go back to the previous tab by clicking on the "Layout" button
- Go to the next tab by clicking on the "Cost" button

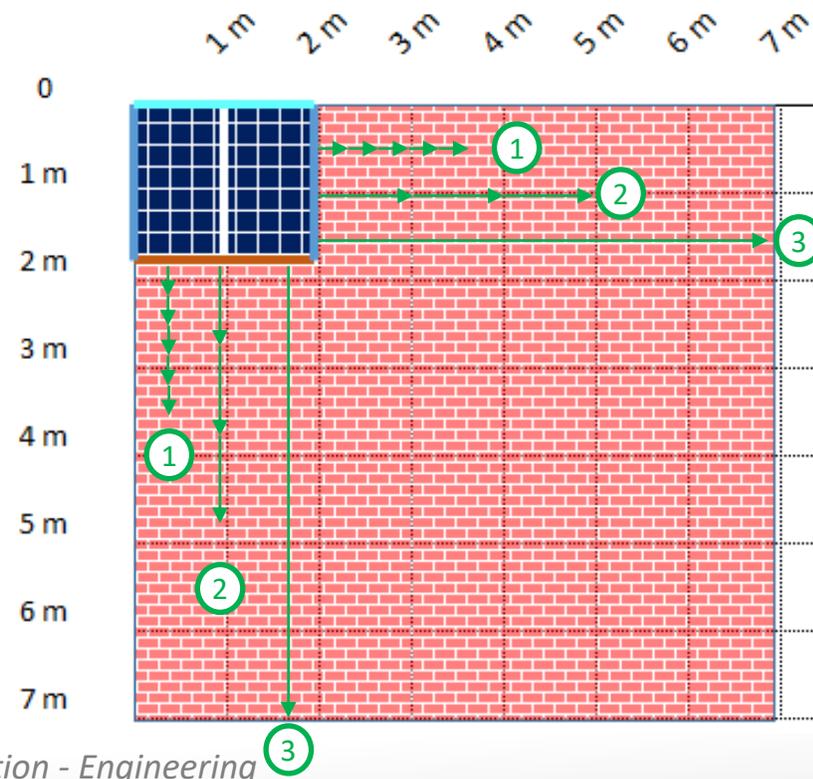


Roof: Roof move button

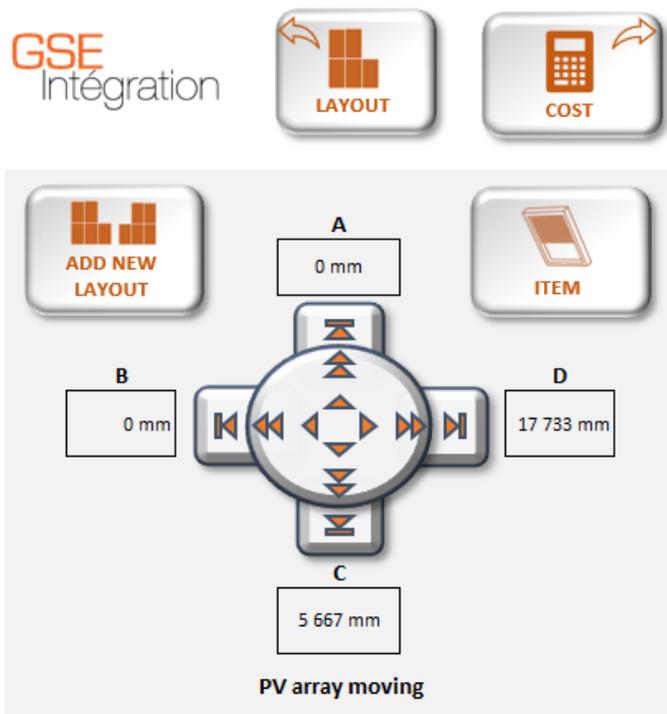


➤ You can move the PV field on the roof where you want with the directional button arrows:

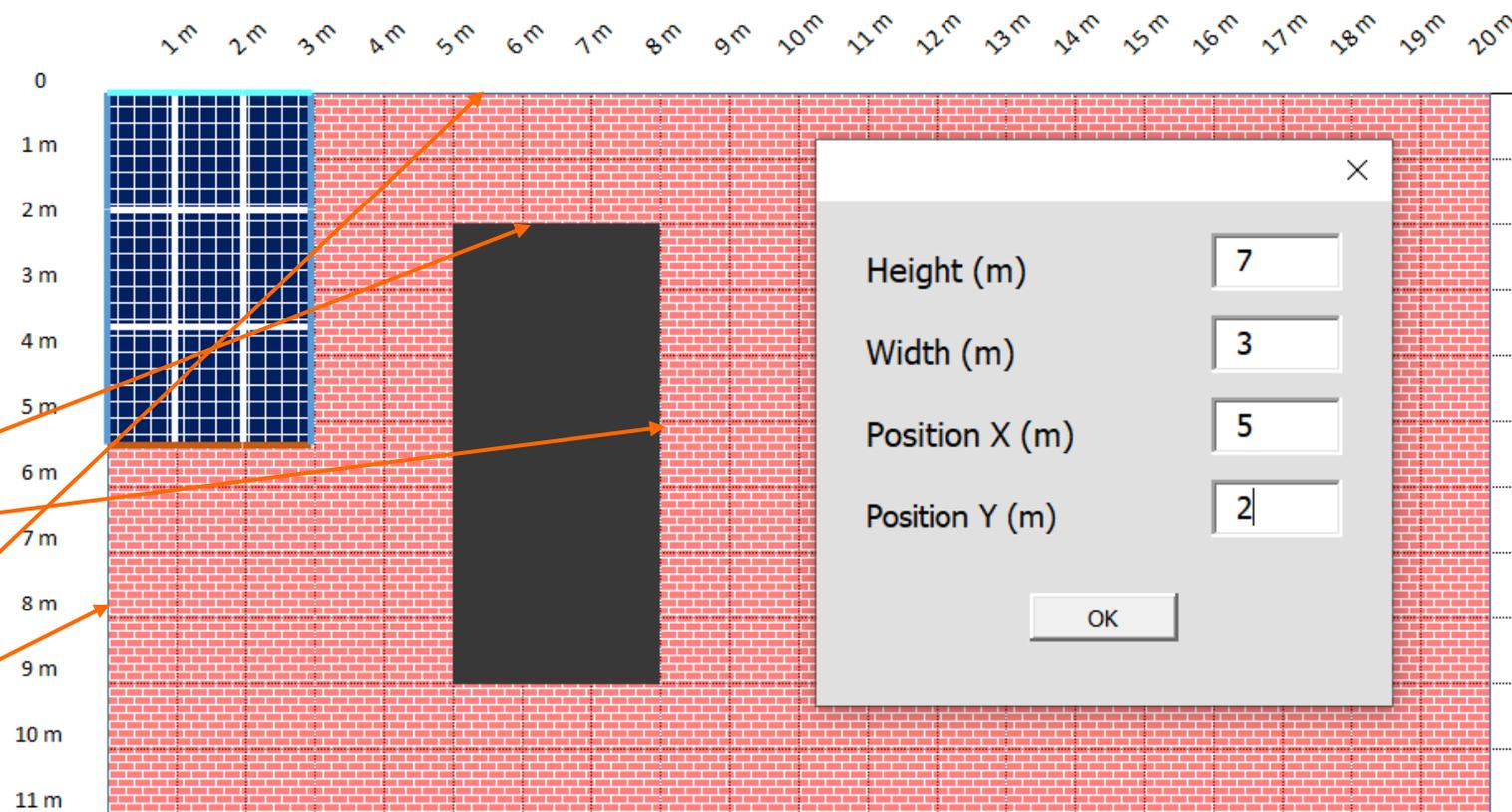
- Single arrow : 100mm move
- Double arrow : 1000mm move
- Move to the chosen end



Roof: Item



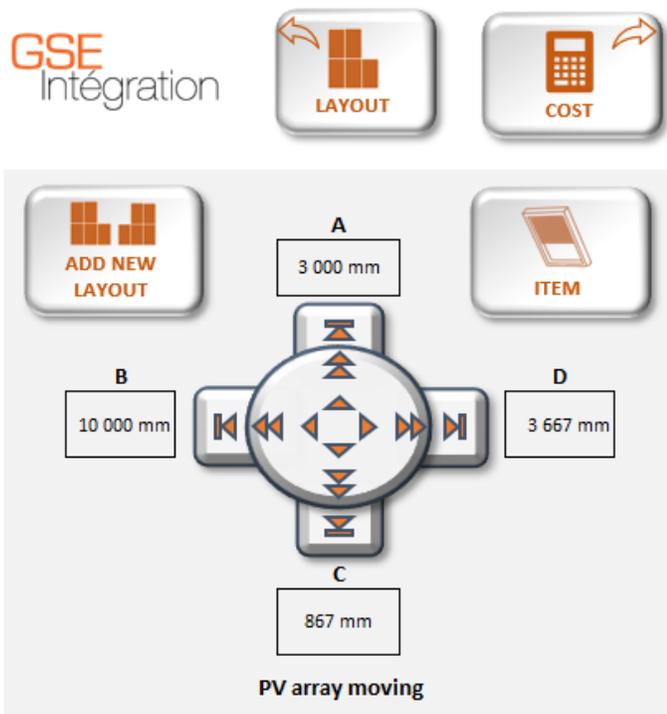
- The "Item" button is used to insert an object (e.g. chimney) to make sure it doesn't conflict with the PV field. The following dialog box appears. Checking the conflict between an item and the PV field is only visual, there'll be no alert in case of an overlap.



➤ Enter :

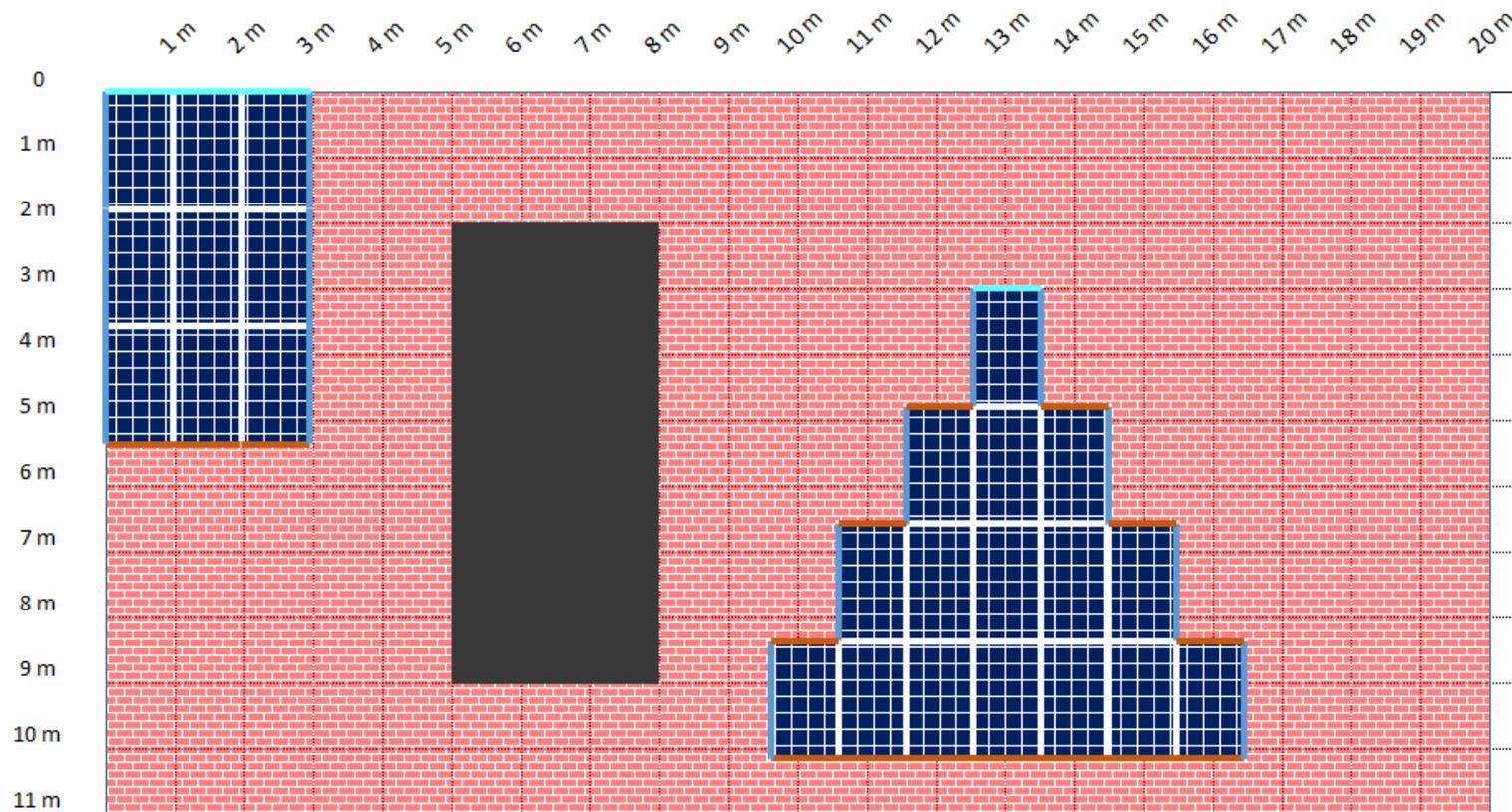
- **Height** of the item
- **Width** of the item
- **Position X** of the item according to the axis of abscisses
- **Position Y** of the item according to the axis of the ordered

Roof: Add new layout



- NB: Only the last added PV field can be moved. Be sure to position the previous one before adding a new one!

- The "add new layout" button is used to insert a new PV field if necessary. The calculator goes back to the layout tab, you must draw the new field (see slide 11) and click on the "Roof" button and then be able to place it as desired.



Introducing the tab



Quote



10/06/2020

ADDRESS / CONTACT	DESIRED DELIVERY DATE

- Go back to the previous tab by clicking the "**Layout**" button
- Edit your purchase order in PDF format by clicking on the "**PDF**" button

Quote



NB : The Project reference you noticed in the Project tab will be displayed here (cf. diapo 3)

10/06/2020

ADDRESS / CONTACT	DESIRED DELIVERY DATE
	COMMENTS

GSE
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- Click on the "**Discount**" button and enter the percentage of your discount in the open dialog box for this purpose
- The date is generated automatically
- Enter the information that you want: **address, contact, desired delivery date** and **comments**
- You can also hide prices on the quote to be edited or for other reasons click on the "**Hide Prices**" button

Cost

REFERENCES		NUMBER OF PIECES	UNIT PRICE (EXCL TAX)	DISCOUNTED UNIT PRICE	TOTAL
ART102272	 GSE Portrait Frame 1710 / 1005	9	34,15 €	34,15 €	307,35 €
ART100695	 Universal Top Centre Flashing - Grey L 1500mm	2	17,00 €	17,00 €	34,00 €
ART101340	 Top Right Corner Flashing - Grey	1	13,50 €	13,50 €	13,50 €
ART100862	 Top Left Corner Flashing - Grey	1	13,50 €	13,50 €	13,50 €
ART100558	 Top Junction Flashing - Grey L 375mm	1	4,50 €	4,50 €	4,50 €
ART100703	 Lateral Flashing P30 - Grey	12	10,90 €	10,90 €	130,80 €
ART100867	 Top Corner Piece Flashing - Grey L1400mm (To Join Module to Top Centre Flashings)	2	3,50 €	3,50 €	7,00 €
ART100633	 GSE Flashing Hook	33	0,60 €	0,60 €	19,80 €
ART100597	 Double Clamp H21 - Steel - Grey - In Roof	12	1,18 €	1,18 €	14,16 €
ART101279	 Simple Clamp H21 - Steel - Grey - In Roof	12	1,02 €	1,02 €	12,24 €
ART100212	 Left Wedge for Simple Clamp - In Roof	6	0,25 €	0,98 €	5,88 €
ART101501	 Right Wedge for Simple Clamp - In Roof	6	0,25 €	0,98 €	5,88 €
ART101088	 Pre-Compressed Seal - 20 x 40mm 5.5m (roll)	3	10,73 €	9,74 €	29,22 €
ART101138	 EPDM Cell for Screw - In Roof (25x21 EP. 5mm)	24	0,08 €	0,08 €	1,92 €
ART100389	 Pop Rivet 4x8 (Fixations Rivet for Top Centre Flashing)	8	0,05 €	0,05 €	0,40 €
ART101552	 GSE Integration Screw - 6.3mmx60mm - Grey	54	0,23 €	0,23 €	12,42 €
ART100931	 GSE Integration Screw - 6.3mmx60mm - Black	24	0,27 €	0,27 €	6,48 €
TOTAL					619,05 €
OPTIONS		NUMBER OF PIECES	UNIT PRICE (EXCL TAX)	DISCOUNTED UNIT PRICE	TOTAL
ART101272	 Flexalu Waterproof Strip Red 500mm (5 m roll)	1	75,68 €	75,68 €	75,68 €
TOTAL					694,73 €

NB: PRICE AVAILABLE FROM YOUR USUAL CONTACT.
FOR MORE INFORMATION ABOUT THE PRODUCT: WWW.GSEINTEGRATION.COM



- The list of materials as well as the quantity and prices appear here, followed by the layout of the roof previously drawn.
- They'll be carried back into the PDF when the quote is published via the "PDF" button

Thank you for your attention



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