



module FASADE



## Wind calculations– modules Facade

General Information:

Data Input:

Model 3D:

Results:

1. General Information:

2. General - data input area

3. Building parameters

4. Roof shape

5. Insulation

7. Model 3D

8. Optimizing fasteners

9. Results in wind zones

10. Report printout



– Move on to a topic of your choice



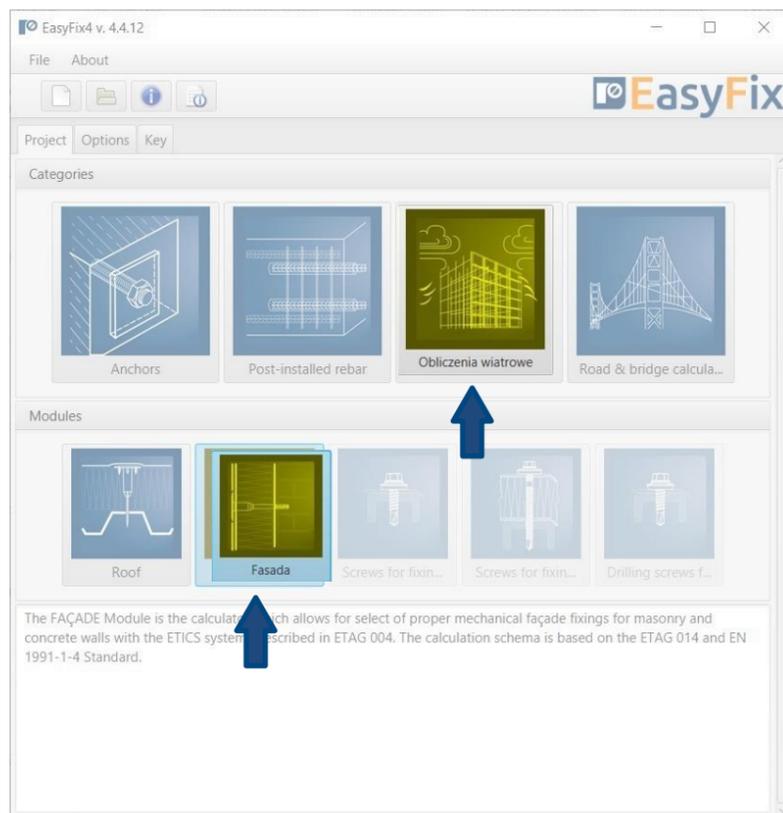
– back to table of contents



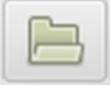
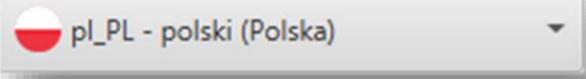
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## 1 General information

Select a category and module :

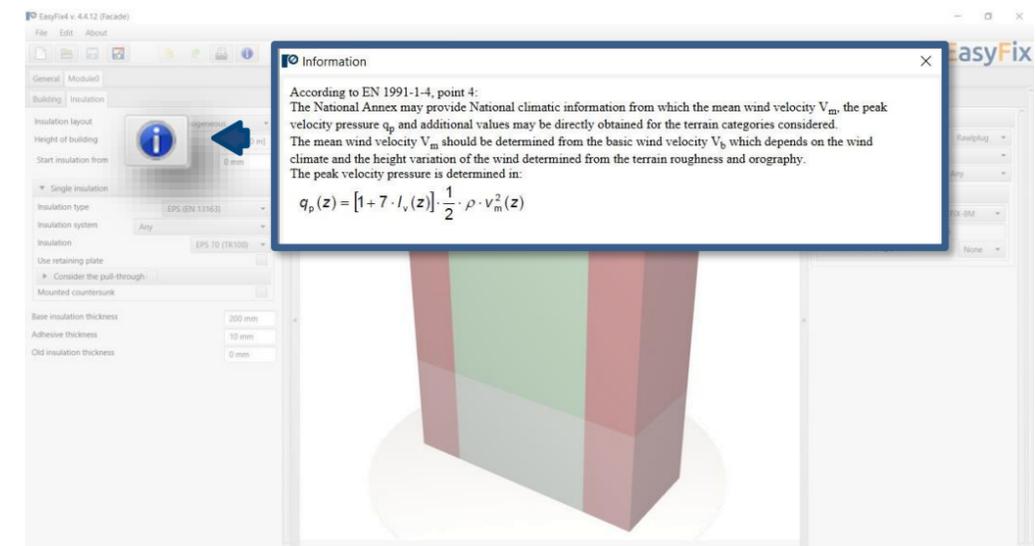


Designation of icons and symbols :

-  Create a new project
-  Open project
-  Save | Save as project
-  Undo | Redo changes
-  Generate printout to pdf file
-  Program information
-  pl\_PL - polski (Polska)

Selecting the program language

-  Information icons
-  User Manual





# Wind calculations– modules Facade

## 2 Introduction Basic window of the Facade module

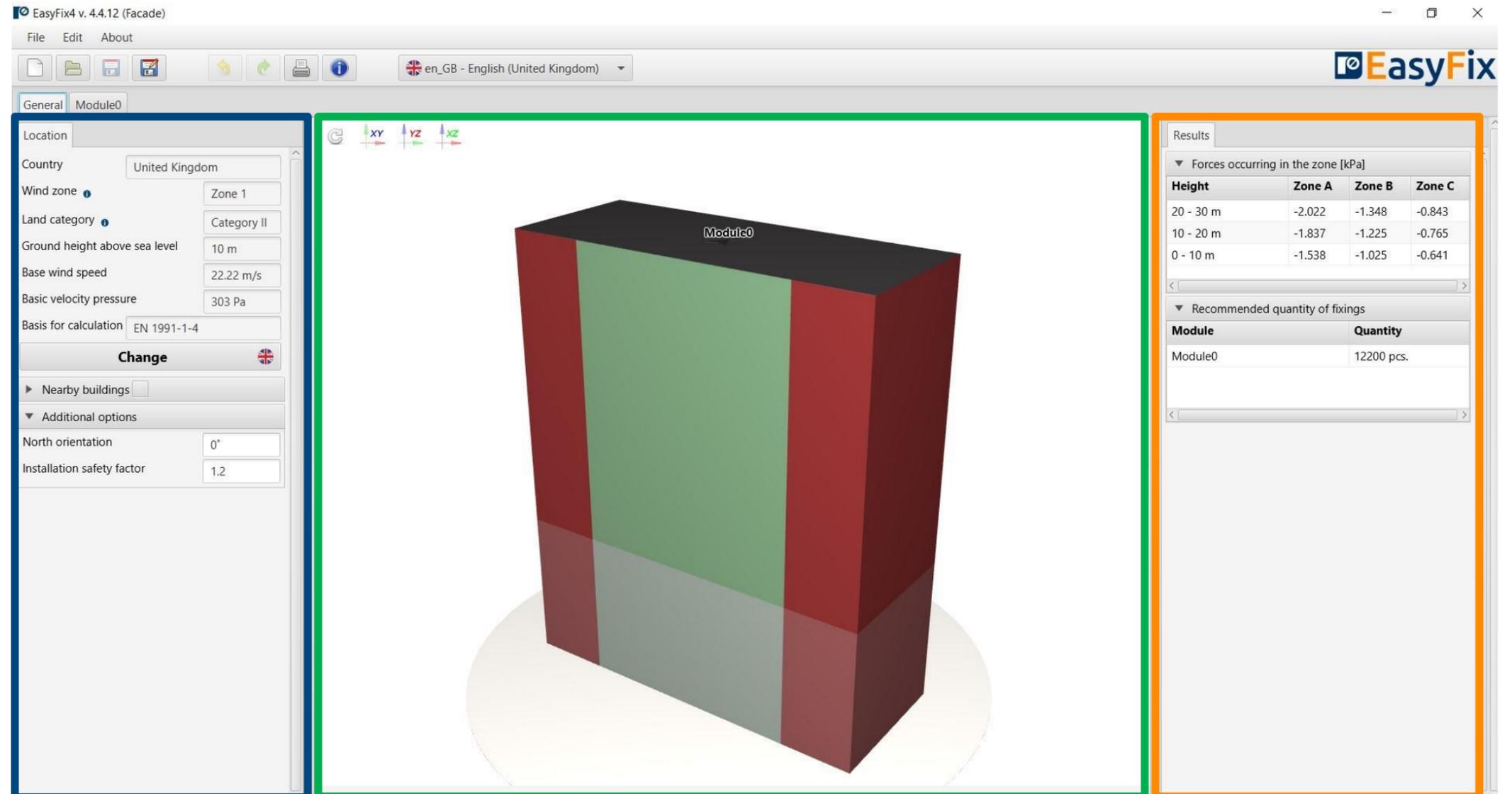
The basic window is divided into three areas:

- data entry
- model view
- results

Input area  
**General Module**  
 Location - data concerning the location of an object in the field  
**Building** - drawing of building shape  
 Insulation - type, arrangement and system of insulation

View of the model  
 3D view with rotation and zoom in/out

Result area  
 Fasteners  
 Results





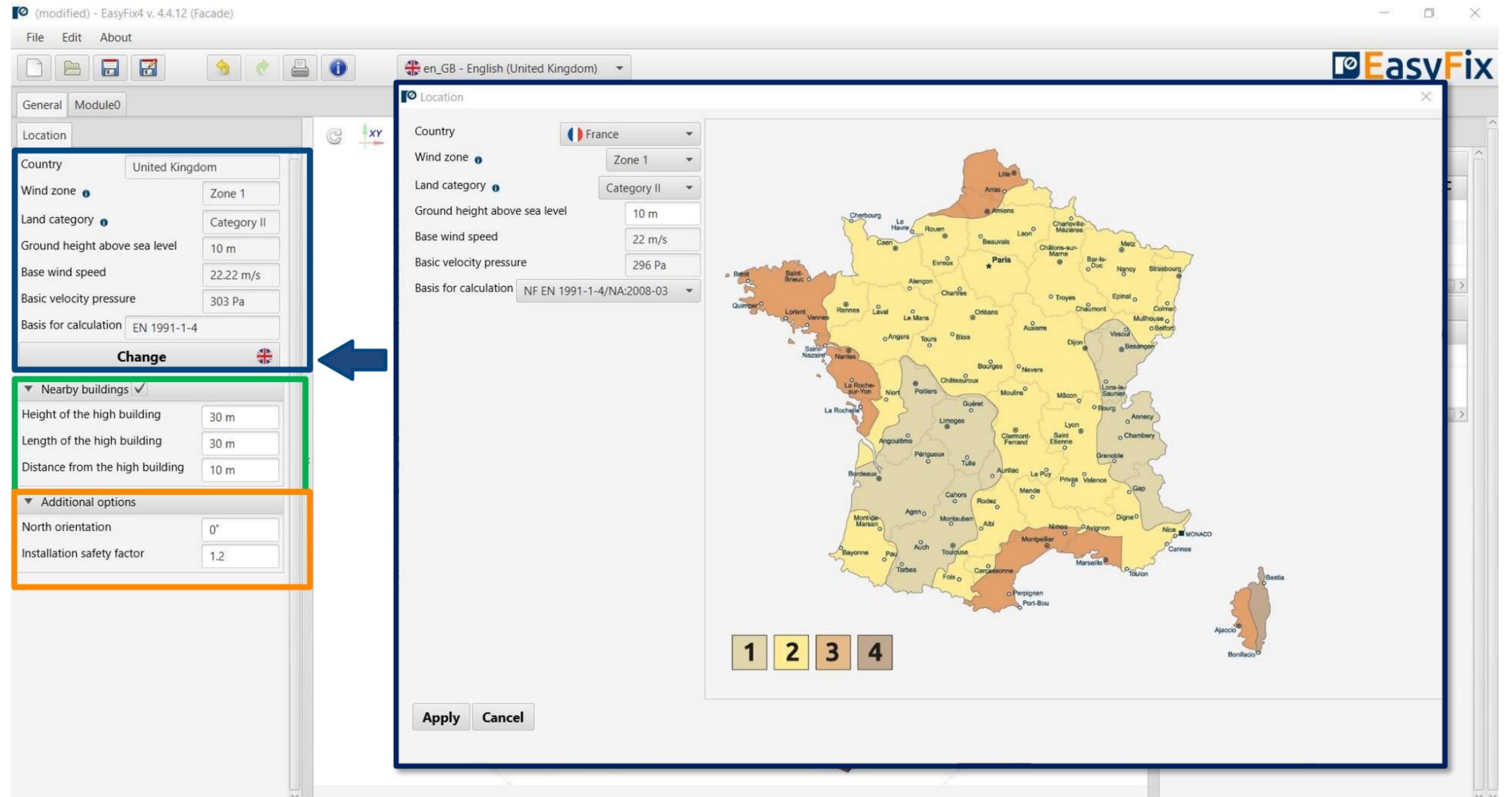
# Wind calculations– modules Facade

## 3 General tab - Location Input area

**Location** - enter data on the location of the building  
 Clicking on the **Change** icon opens a window allowing you to select a different location - country

**Neighbouring buildings** - a field enabling the influence of neighbouring buildings to be taken into account in the calculation

**Additional options**  
 Location relative to north  
 Change of safety factor





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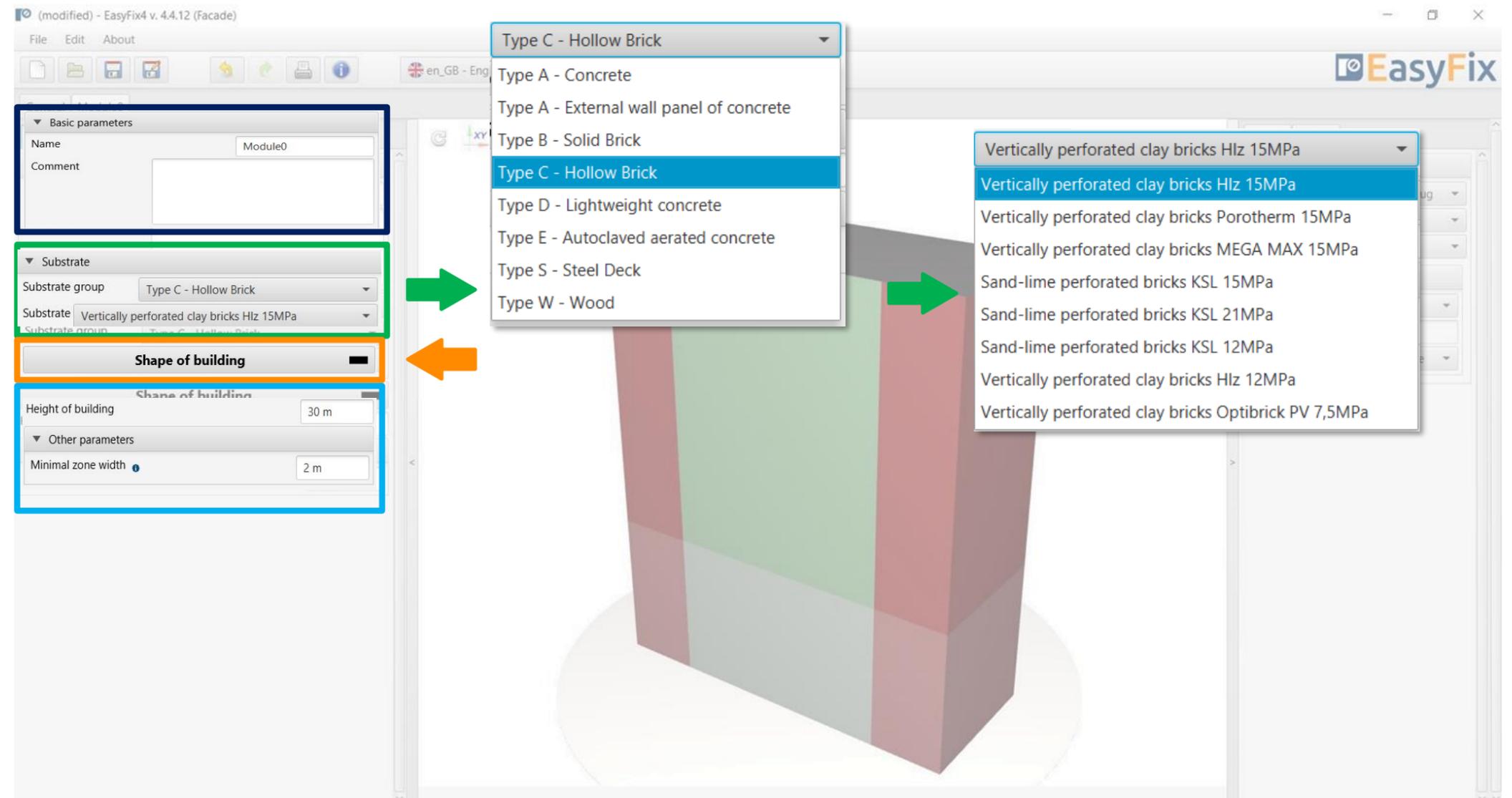
## 4 Module-Building-Isolation tab Input area

**Basic parameters** - allows you to give an individual name to the module and the notes visible on the printout

**Substrate** - define Type and type of wall substrate

Clicking the **Shape of building** button opens an auxiliary window that allows you to draw the shape of the roof projection.

**Building height**





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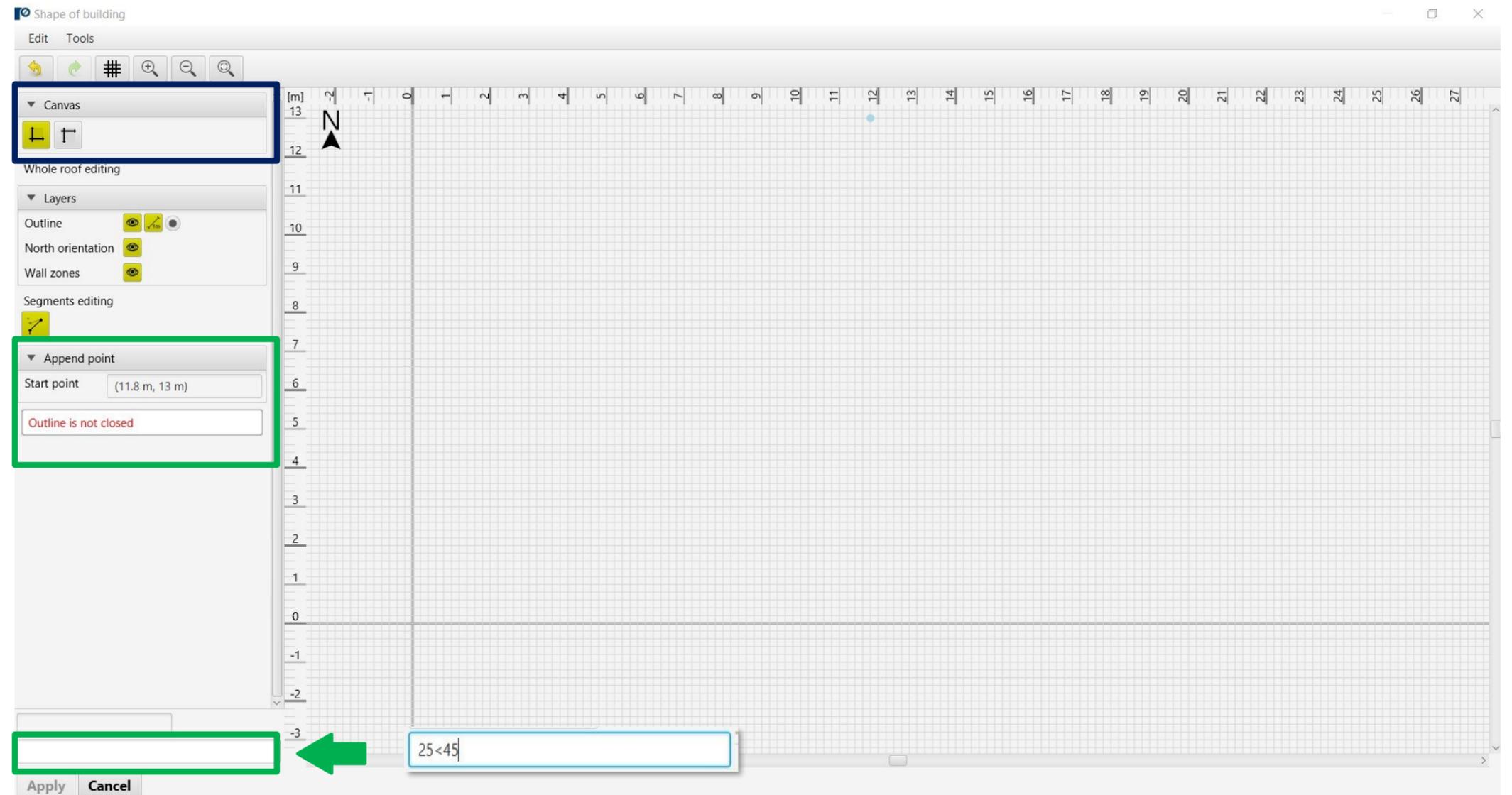
## 5

Module 0 tab  
Roof shape

Canvas - Ability to select the direction of the coordinate system.

Drawing is possible by clicking on a grid point or entering coordinates in the help window.

- The coordinates are entered:
1. the length and angle of the segment separated by <
  2. the coordinates of the point





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5 Module 0 tab  
Roof shape

Drawing - Closing the roof area causes the wind zones to be calculated and visualized on the drawing.

Layers field - allows you to enable or disable the view of drawing layers

Segments editing:  
Move point  
Insert point  
Remove point  
Remove segment

Shape editing window allows you to:  
Move  
Rotation  
Reflection  
Removal

Properties editing button - allows editing of the selected wall: excluding the wall from calculations, defining the area of holes in the wall

**Edit wall**

Off the wall

Windward

Define windows

Width	Height	Quantity	Area
1 m	1 m	1	1 m <sup>2</sup>
1 m	1 m	1	1 m <sup>2</sup>
Total			2 m <sup>2</sup>

Holes ratio

Apply Cancel



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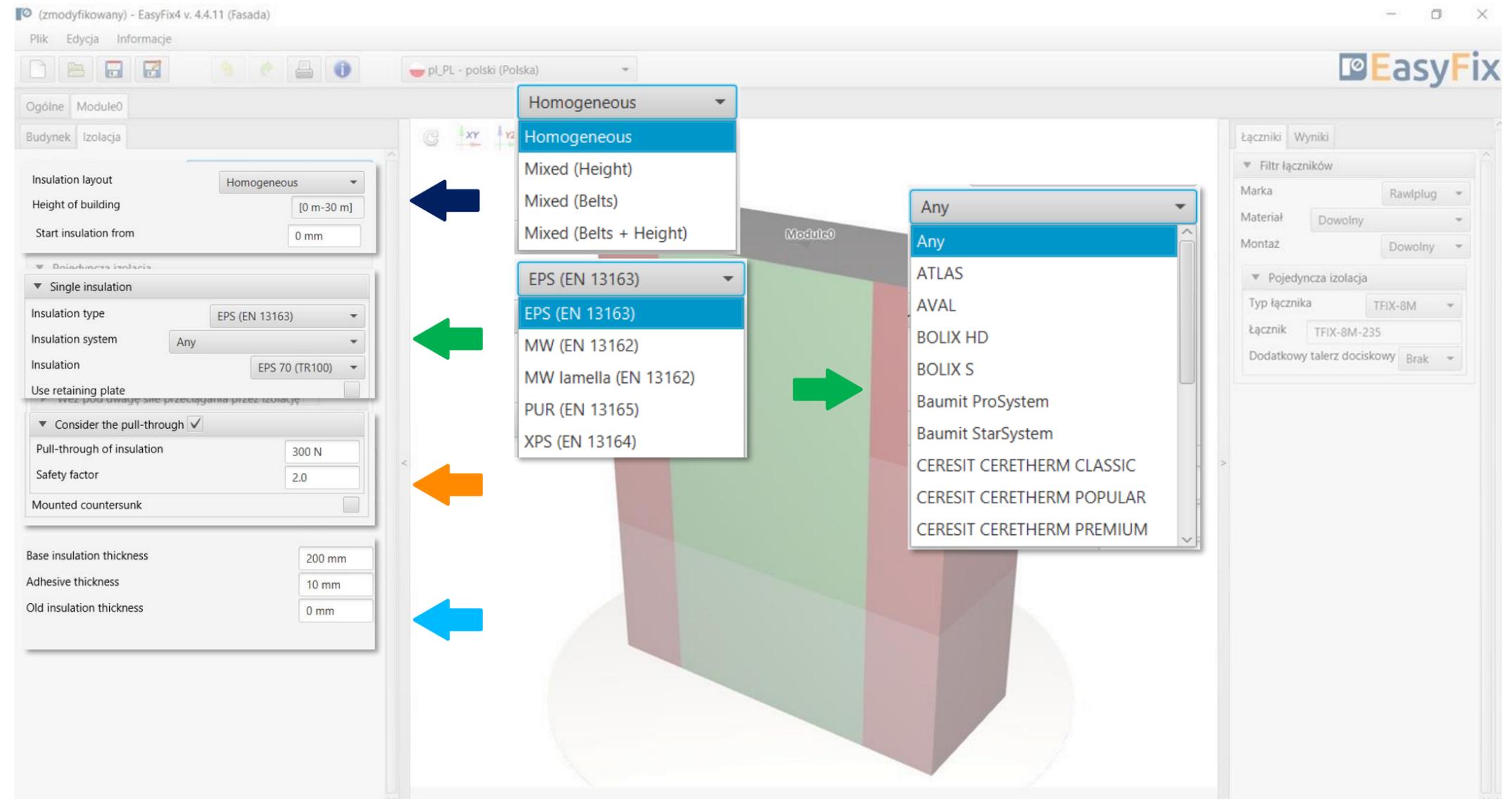
## 6 Module-Building-Isolation tab Input area

Insulation layout - allows to choose an insulation layout between uniform and mixed

Insulation - allows you to select the type of insulation and ETICS system, select the pressure plate

Pull-trought force through the insulation - selecting this option allows you to enter the pulling force along with the assembly coefficient

Thickness fields - enter the thickness of the insulation layers (old + new) and the thickness of the adhesive.

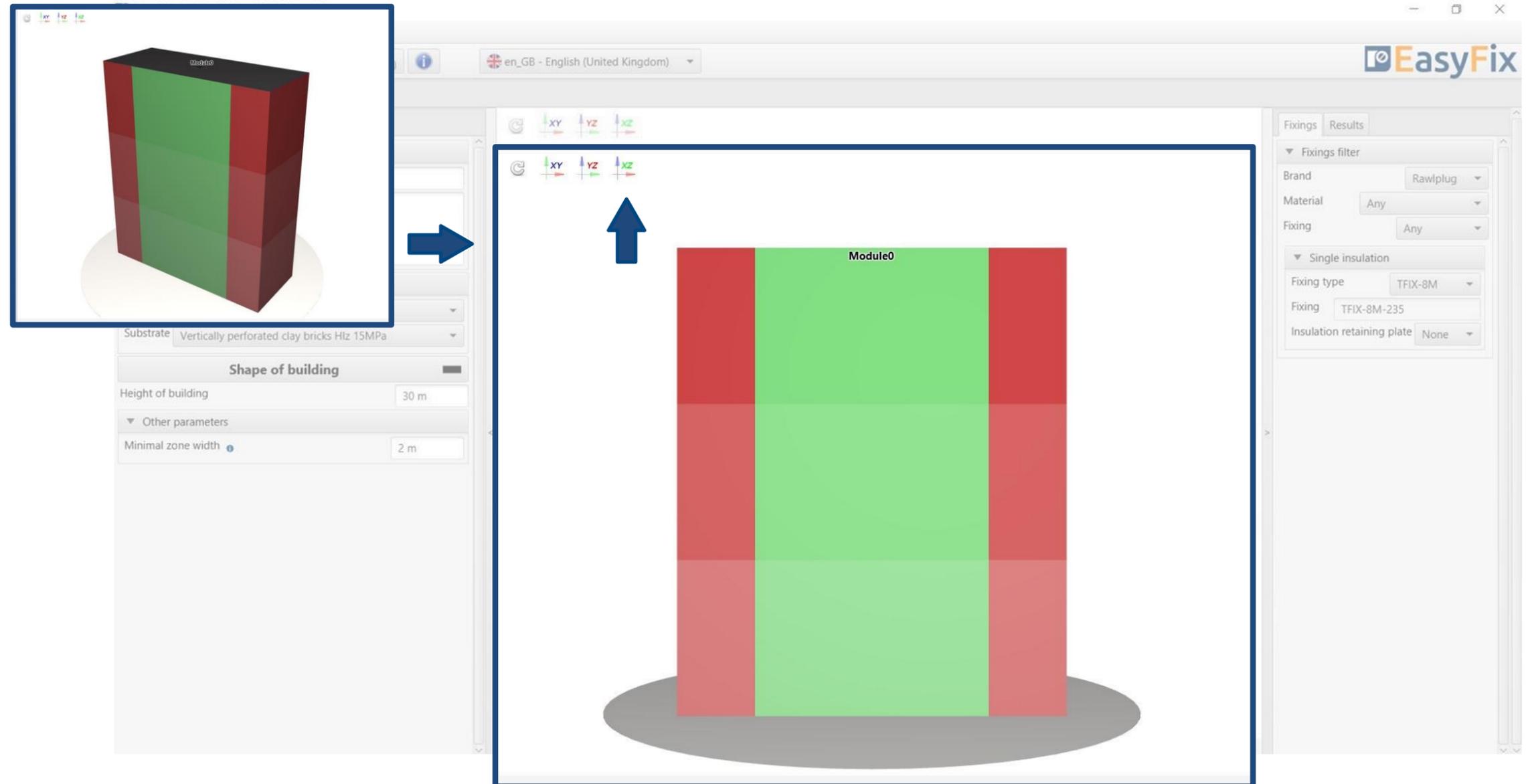




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## 7 Model View

3D view - by clicking on the coordinate system buttons the view can be switched to a 2D plane



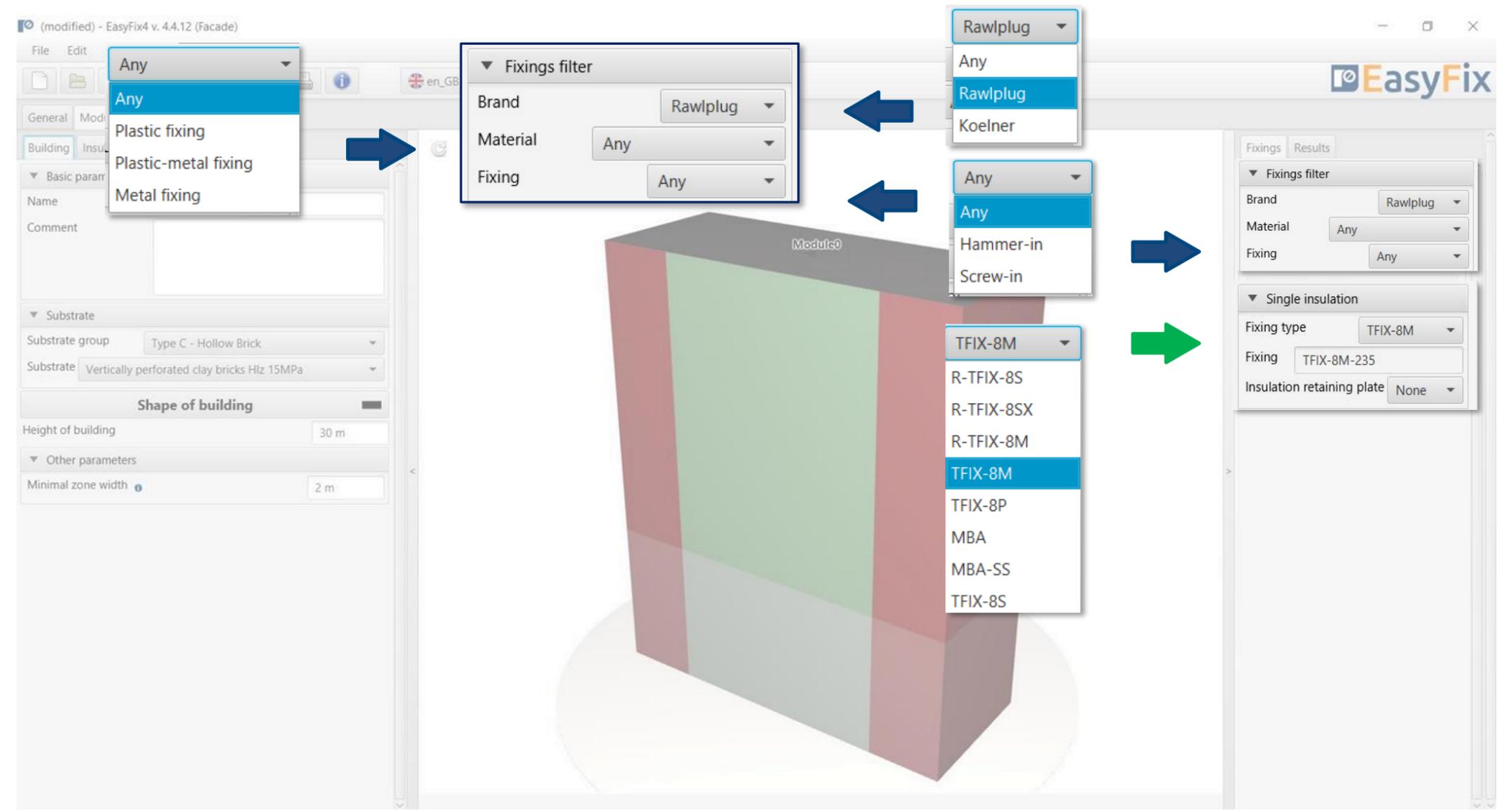


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## 8 Tab Connectors Results area

**Fastener filter** - allows for fastener selection according to defined filters (brand, material, assembly method)

**Isolation** - selection of connector within the declared filters





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8 Results tab  
Results area

**Fastener filter** - allows for fastener selection according to defined filters (brand, material, assembly method)

**Average number of fasteners per m2** - number of fasteners calculated according to EN (minimum quantity included)

**Number of connectors** - total number of connectors for the whole building

The screenshot shows the EasyFix4 v. 4.4.12 (Facade) software interface. On the left, the 'Insulation' settings panel is visible, showing options for 'Homogeneous' layout, 'Single insulation' type (EPS), and various thicknesses. In the center is a 3D model of a facade module. On the right, the 'Results' tab is active, displaying two tables and a total fastener count.

**Table 1: Average quantity of fixings in the zone [pcs./m<sup>2</sup>]**

Height	Zone A	Zone B	Zone C
20 - 30 m	7	5	4
10 - 20 m	7	5	4
0 - 10 m	6	4	4

**Table 2: Fixings count [pcs.]**

Height	Zone A	Zone B
20 - 30 m	2800	1500
10 - 20 m	2800	1500
0 - 10 m	2400	1200

Recommended quantity of fixings: 12200 pcs.



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## 9 Generowanie Wydruku

Print option.  
Enables the generation of a document in the pdf extension.

The screenshot shows the 'Print' dialog box in the EasyFix v. 4.4.12 (Facade) application. The dialog is open over the main software interface, which includes a toolbar with a printer icon (indicated by a blue arrow) and various configuration panels for insulation and building parameters. The 'Print' dialog has two tabs: 'Print' and 'Drawing'. The 'Print' tab is active and contains several sections:
 

- Print language selection:** Language is set to 'en\_GB - English (United Kingdo...', Decimal separator is 'Language based', and System of measurement is 'Metric'.
- Printout layout:** Includes checkboxes for 'Basic information', 'Fixing and zones layers on wall', 'Design fixing layers on wall', and 'Example of distribution fasteners'. There are buttons for 'Enable all printout sections' and 'Disable all printout sections'.
- Project:** Fields for Name, Subject, Street, City, and Code. A large text area for Notes.
- Organization:** A section for organizational details.
- Calculations made by:** A field for the user's name.
- Checked by:** A field for the reviewer's name.
- Print to file:** The file path is 'C:\Users\t1sznura\AppData\Local\Temp\easyfix20211015140200.pdf'.

 At the bottom of the dialog is a prominent 'Print the document' button. In the background, the software interface shows a 'Results' window with a table of average quantity of fixings in the zone (pcs./m²) and a 'Recommended quantity of fixings' of 12200 pcs.

Height	Zone A	Zone B	Zone C
0 m	7	5	4
0 m	7	5	4
m	6	4	4

Height	Zone A	Zone B
0 m	2800	1500
0 m	2800	1500
m	2400	1200

