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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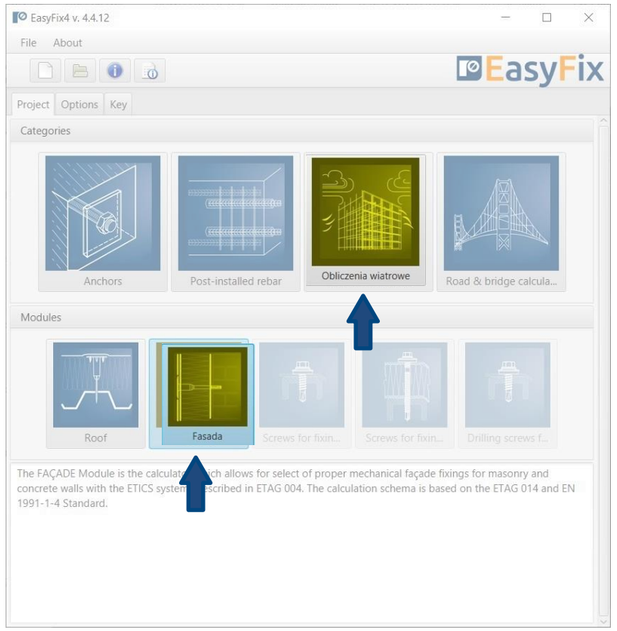
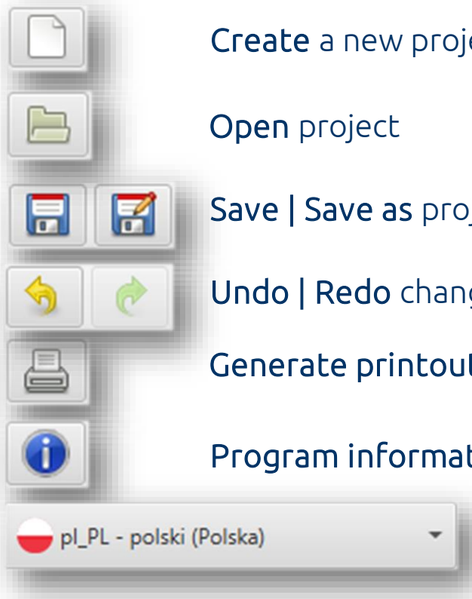
1 General information

Select a category and module :



Designation of icons and symbols :



Create a new project

Open project

Save | Save as project

Undo | Redo changes

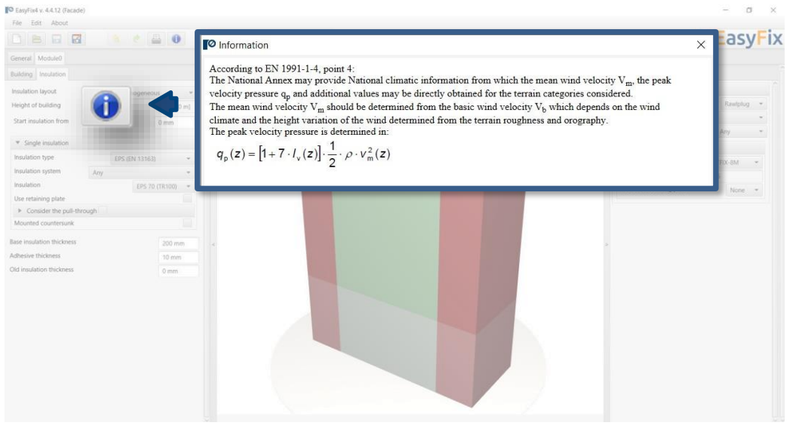
Generate printout to pdf file

Program information

Selecting the program language

Information icons

User Manual



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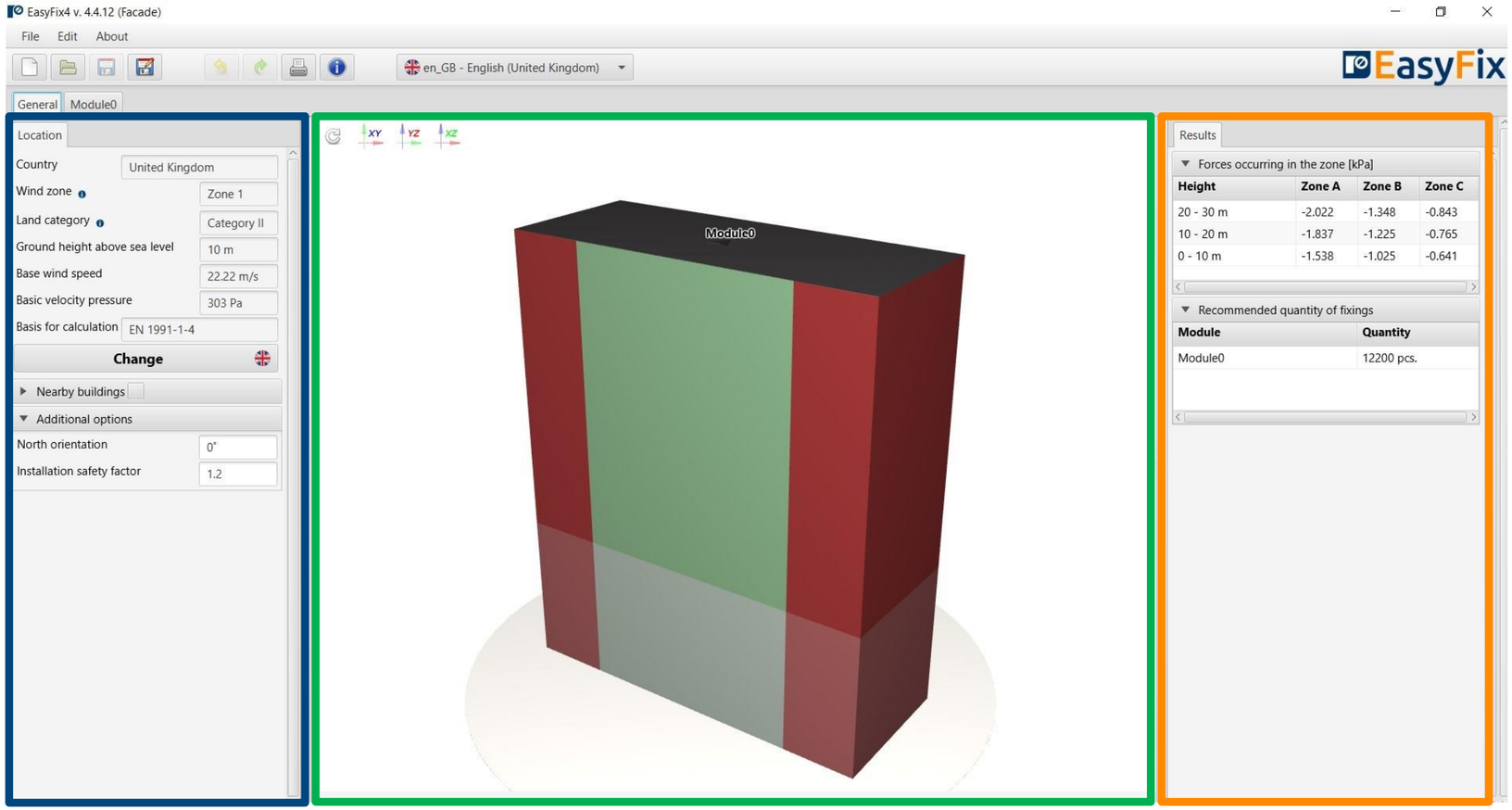
2 Introduction
Basic window of the Facade module

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



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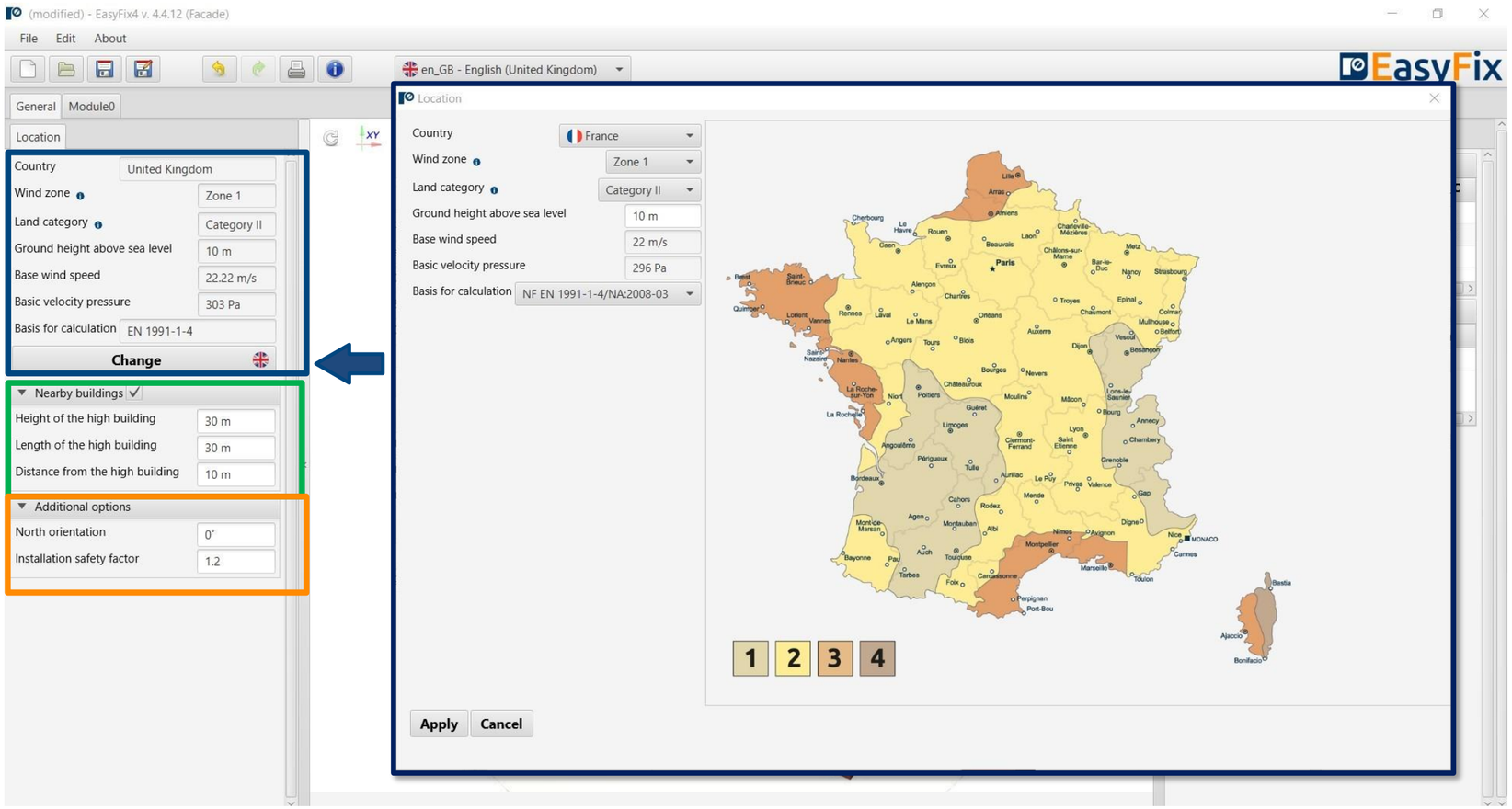
3 General tab - Location
Input area

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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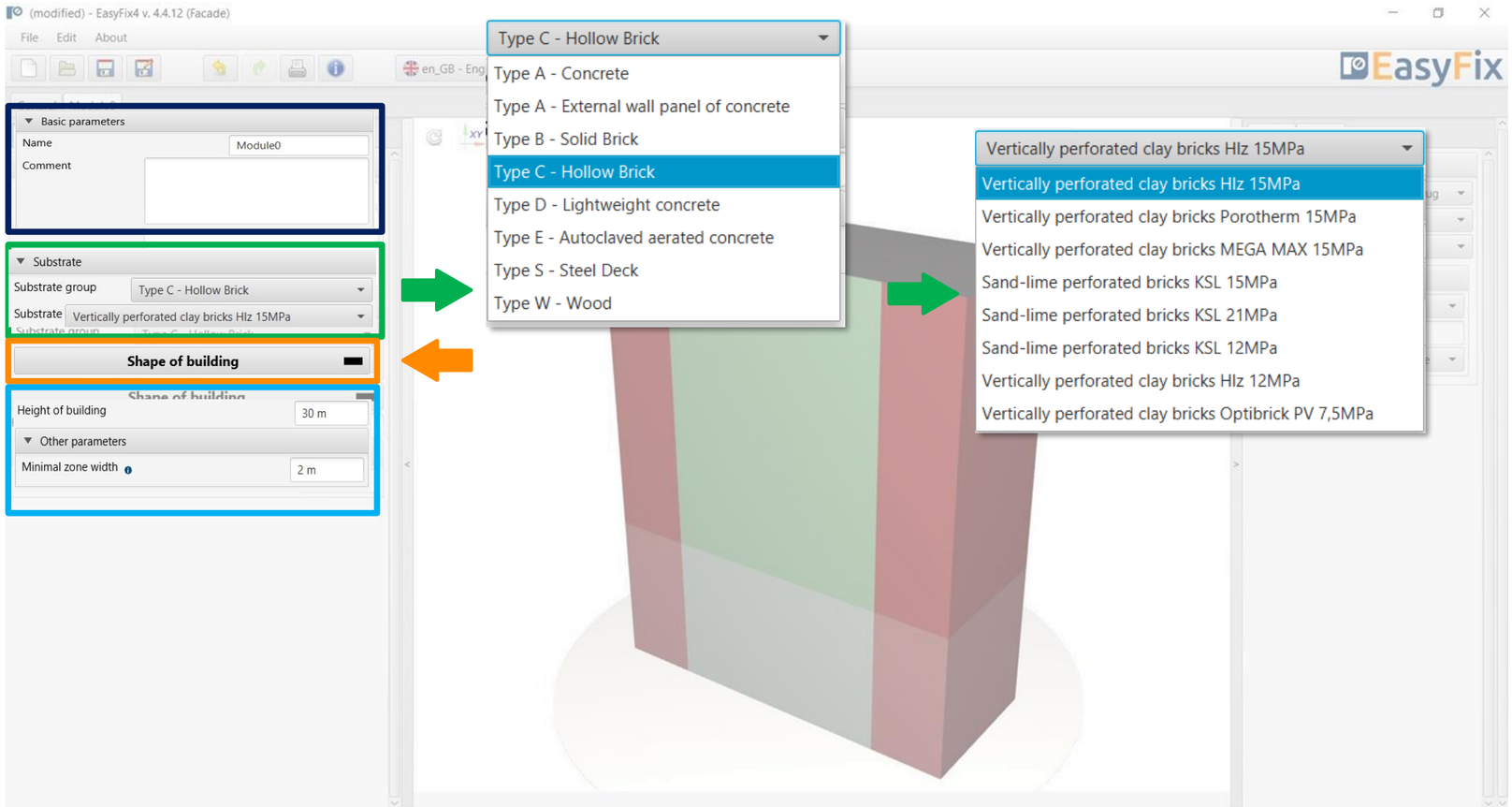
4 Module-Building-Isolation tab
Input area

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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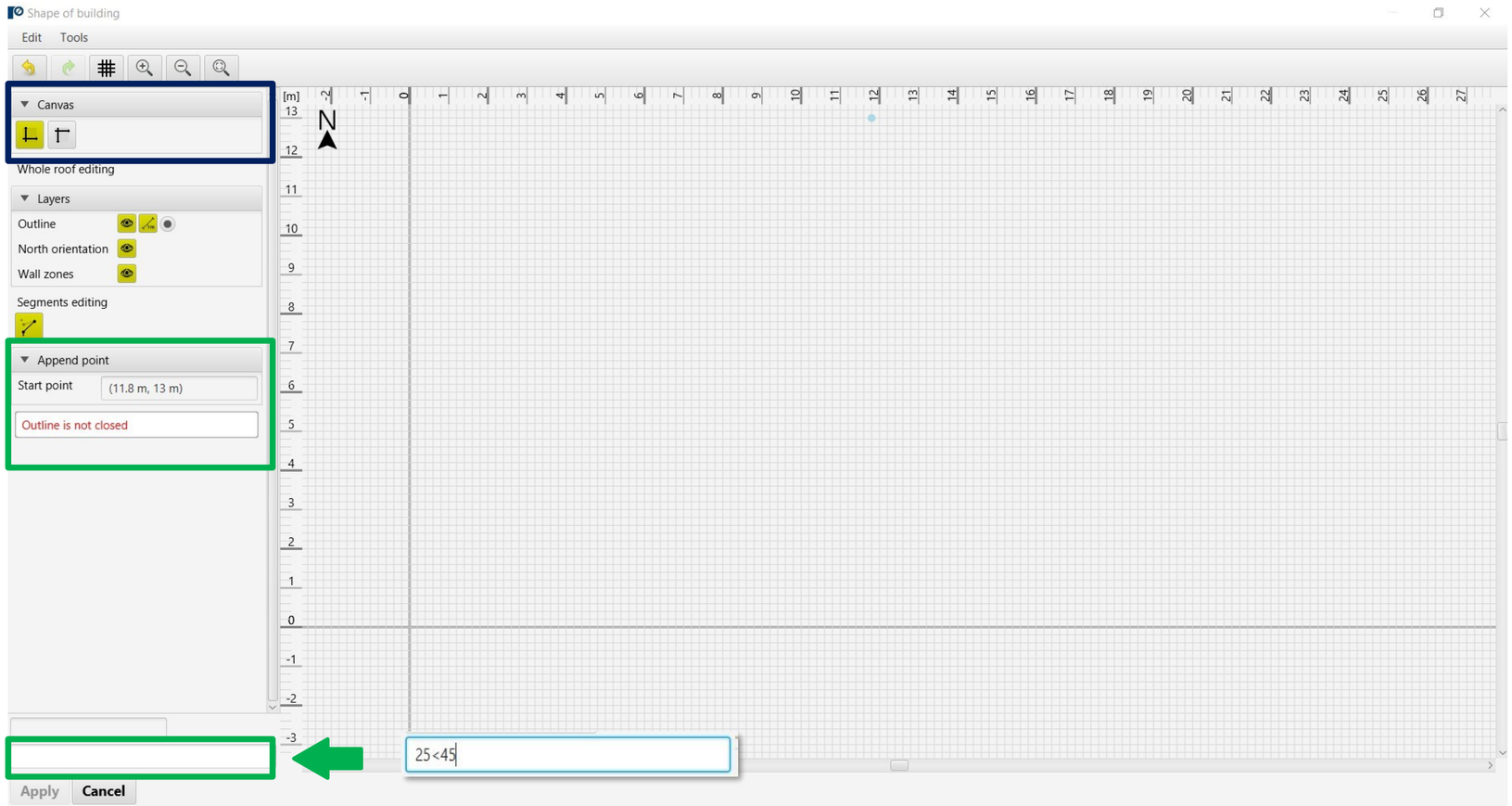
Module 0 tab
Roof shape

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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Module 0 tab
Roof shape

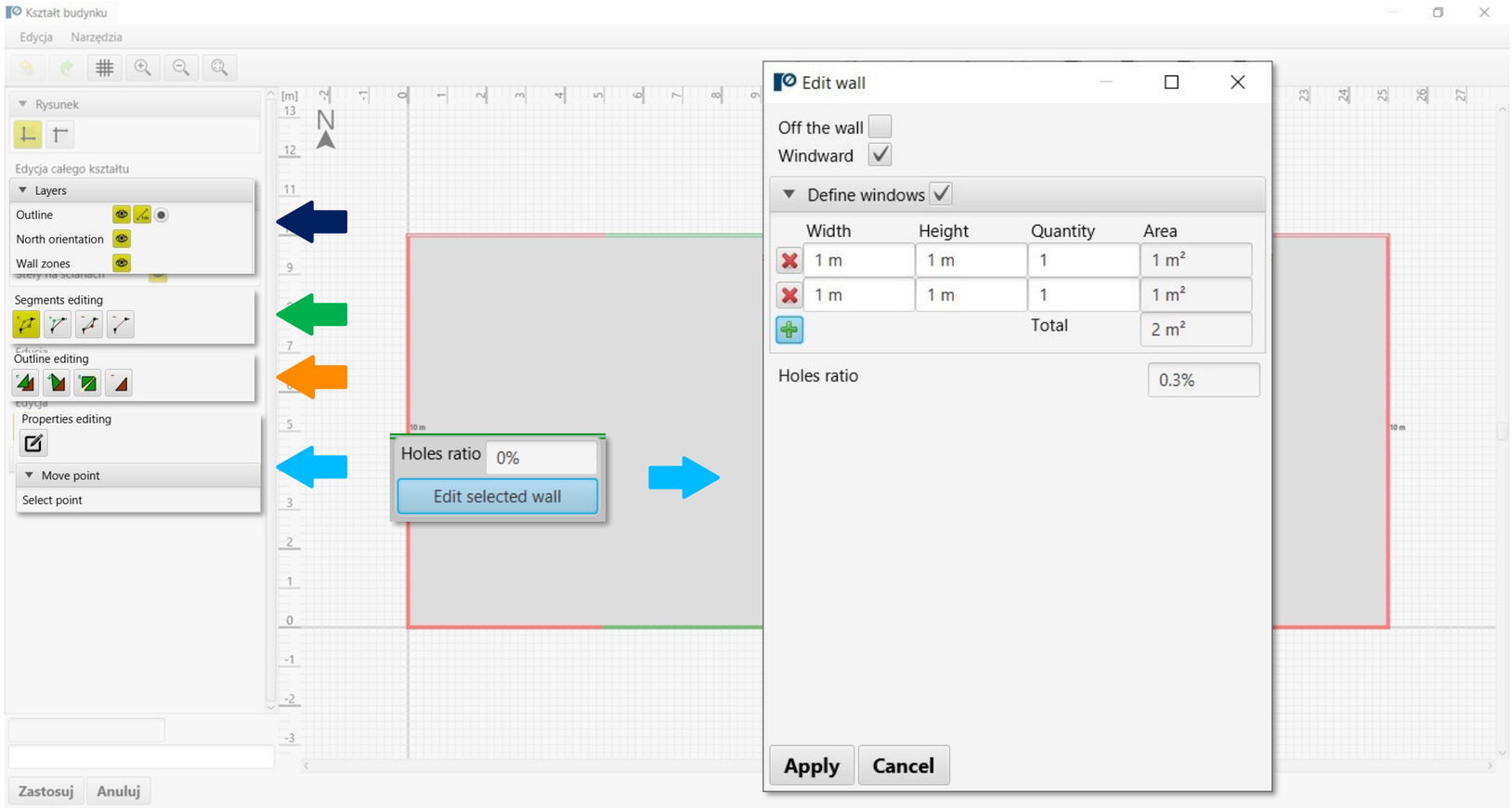
Drawing - Closing the roof area causes the wind zones to be calculated and visualized on the drawing.

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

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



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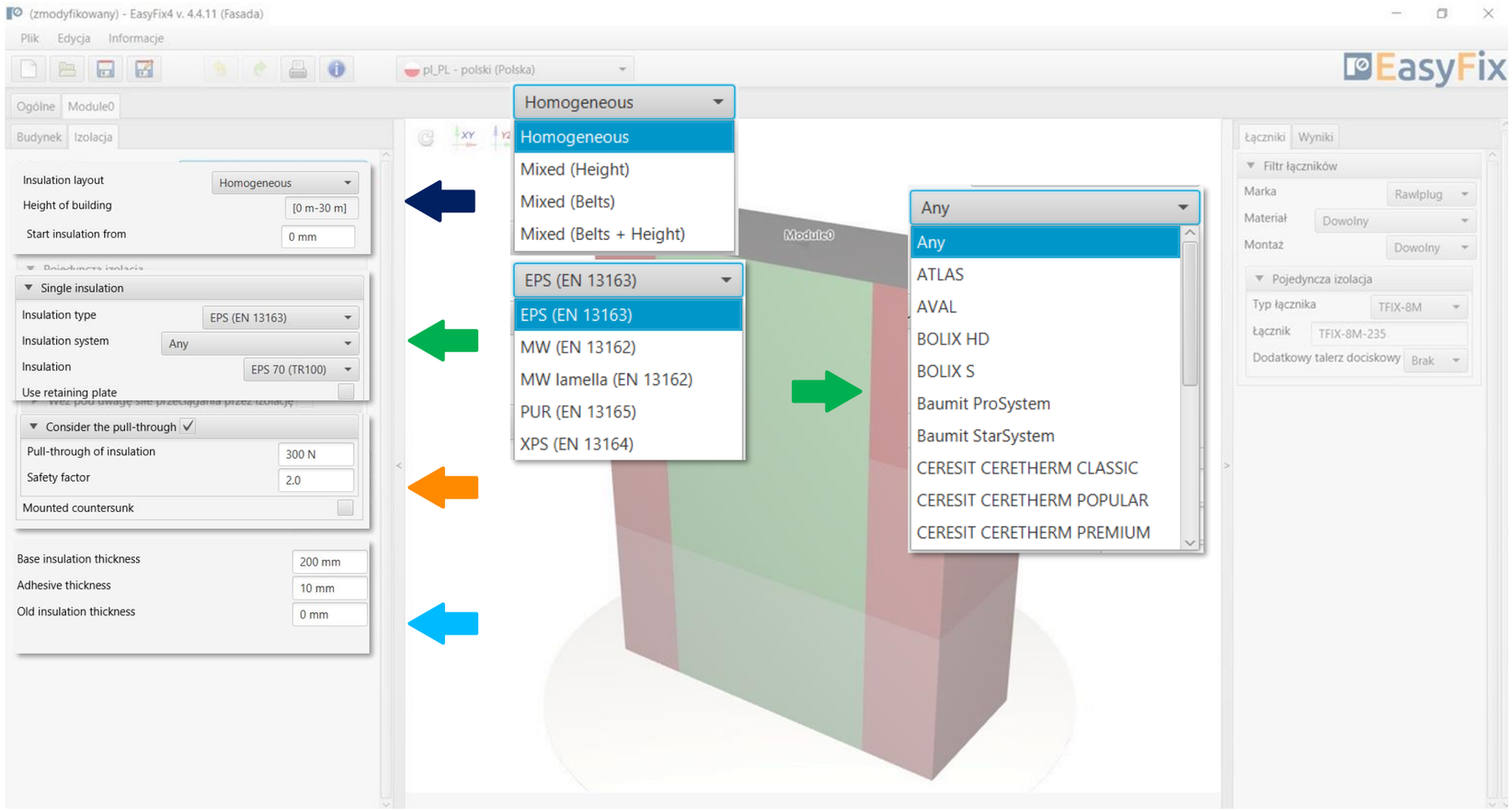
6 Module-Building-Isolation tab
Input area

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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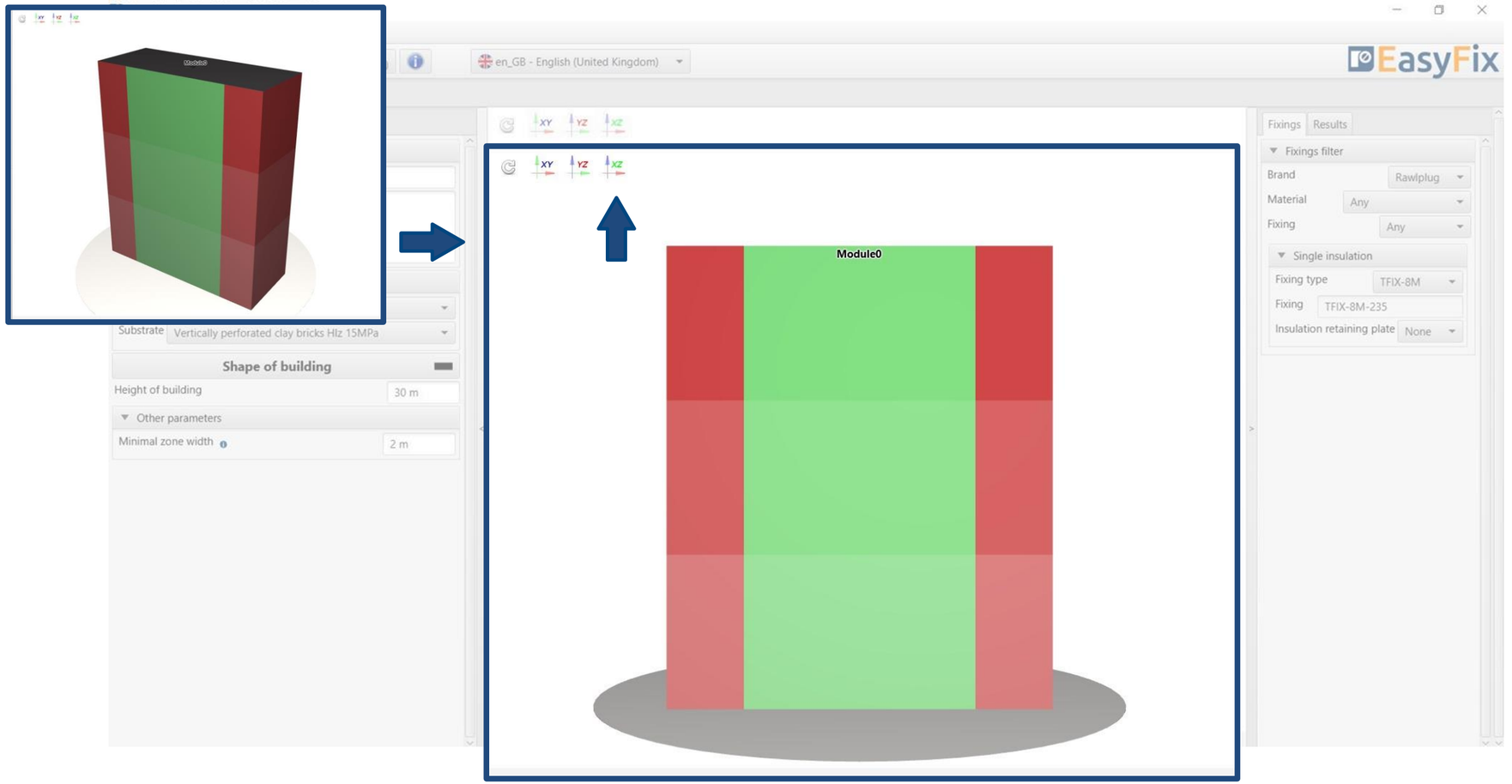
7 Model View

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



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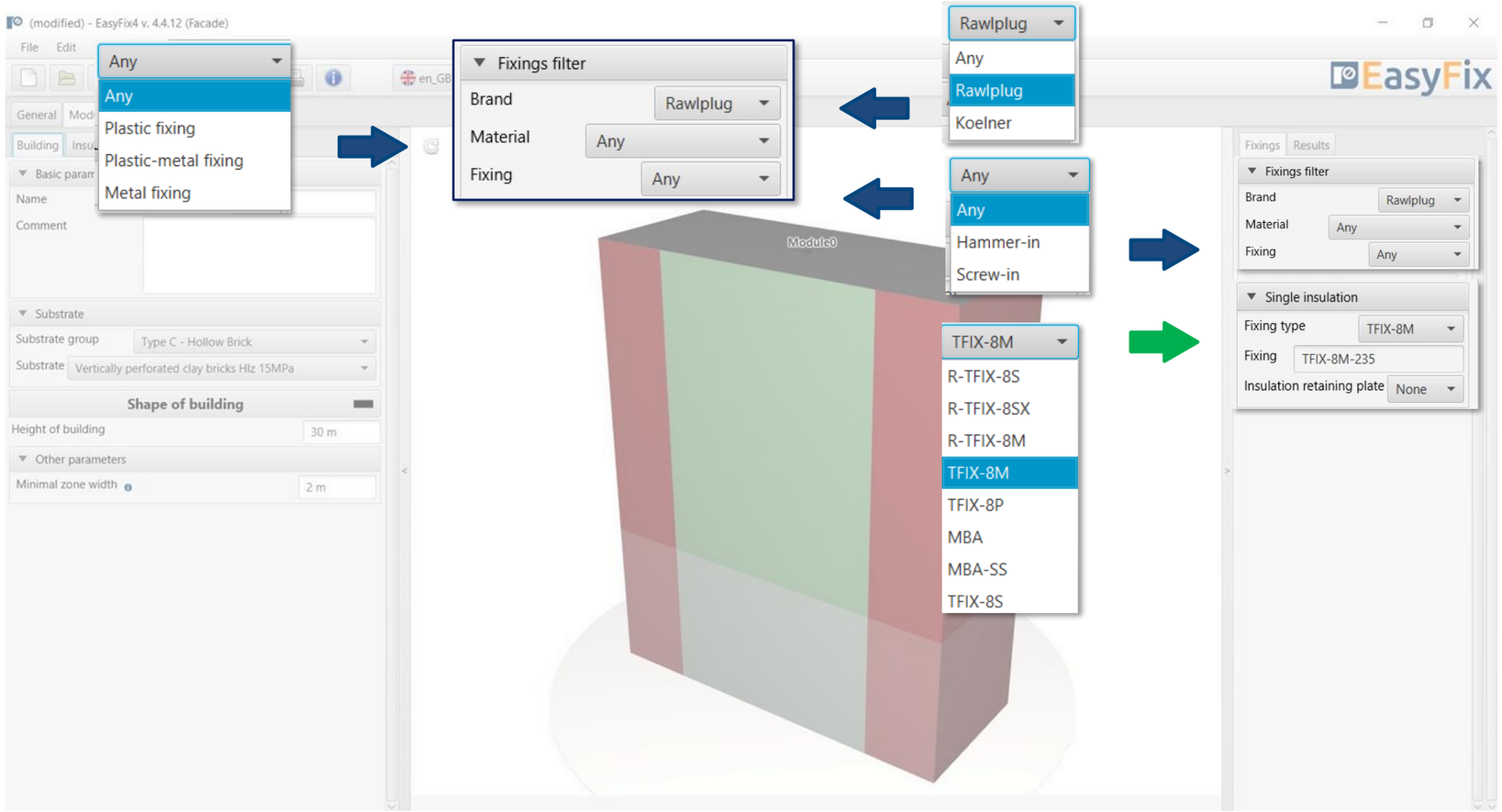
8 Tab Connectors
Results area

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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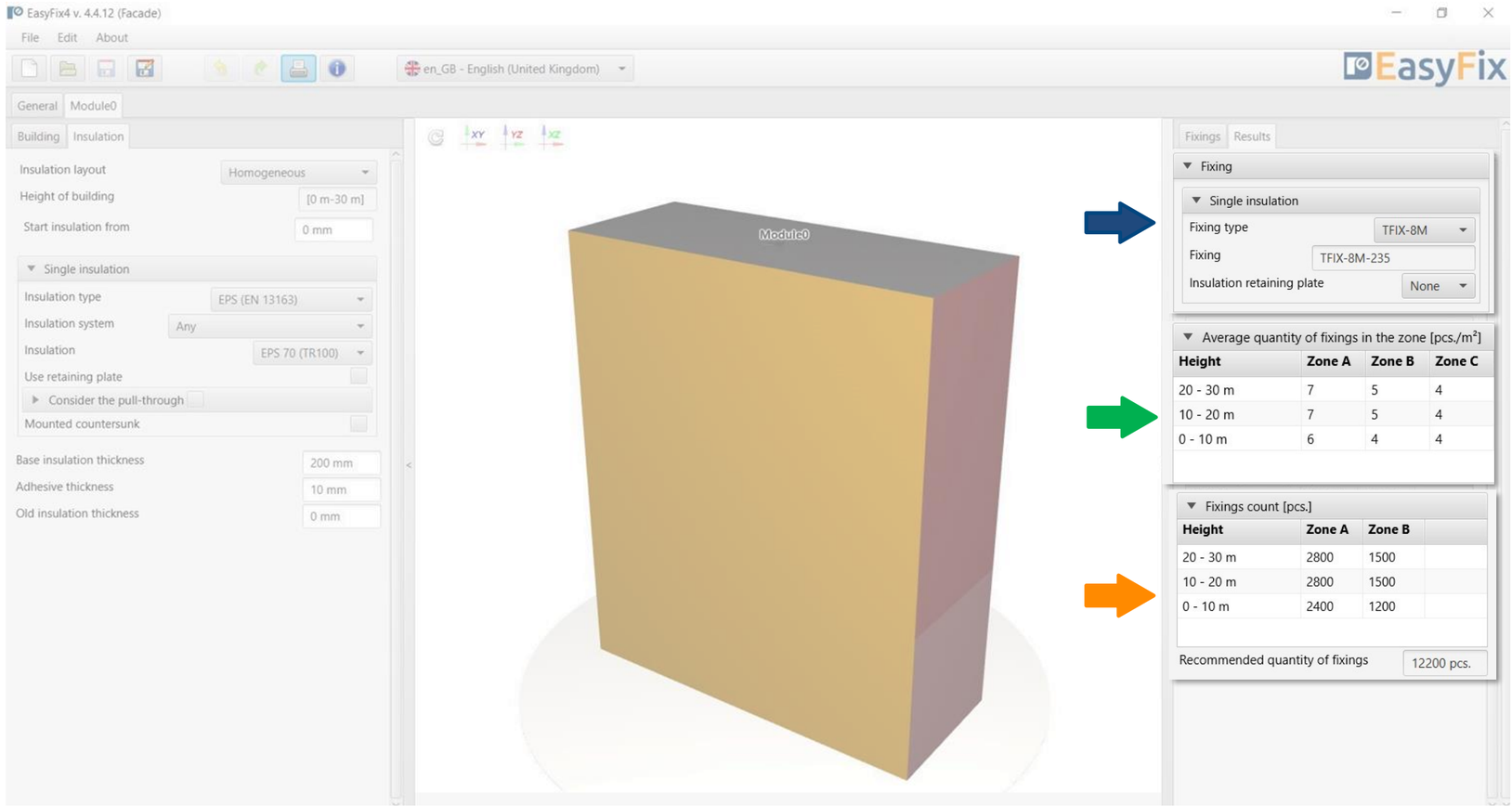
8 Results tab
Results area

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



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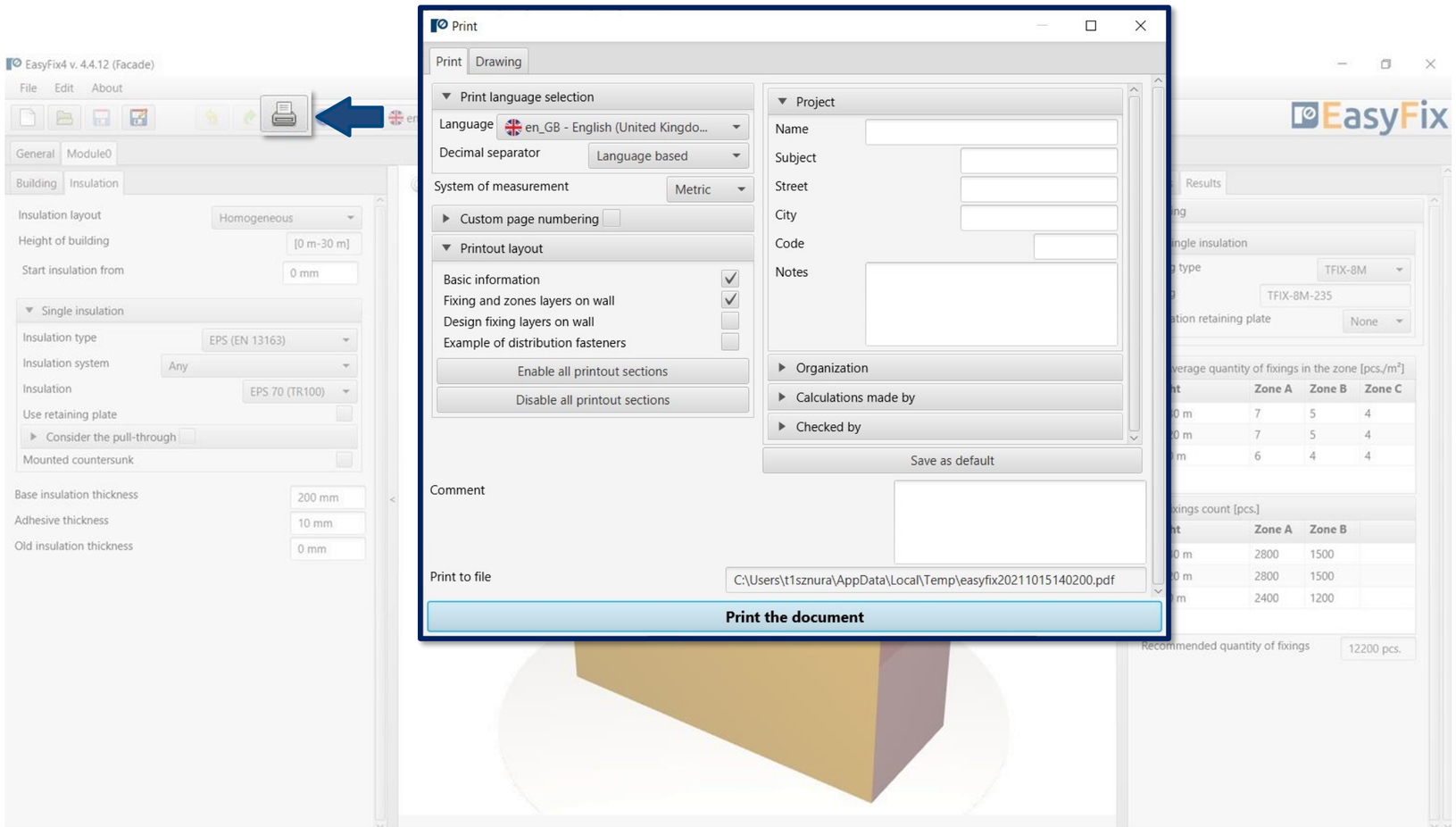
9 Generowanie **Wydruku**

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