

# Instruction manual | EASYFIX 4



## Wood construction screws: Notch reinforcement

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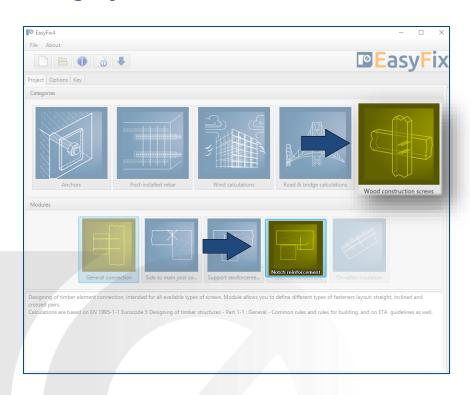
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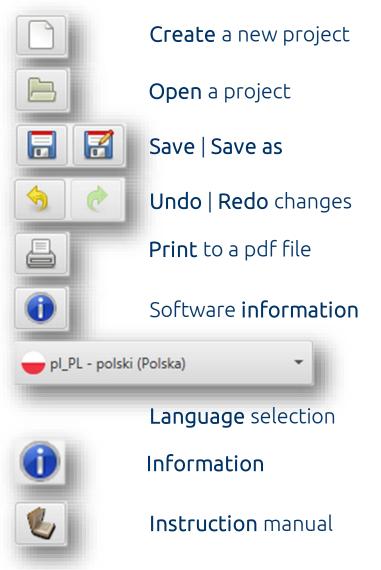
## Wood construction screws: Notch reinforcement

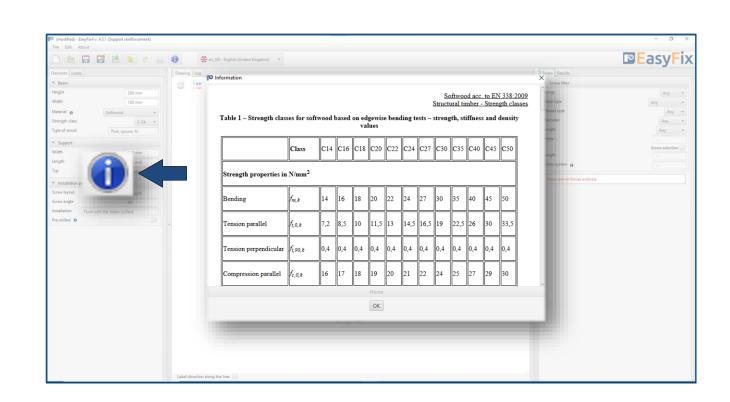
General information

## Category and module selection:



## Icons and symbols meaning:





Click to **information icon** to display an additional window containing theory related to a particular issue.



Data input

Elements – beam, support

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Geometry and layout of elements:: dimensions can be defined in the side panel and directly on a model as well.

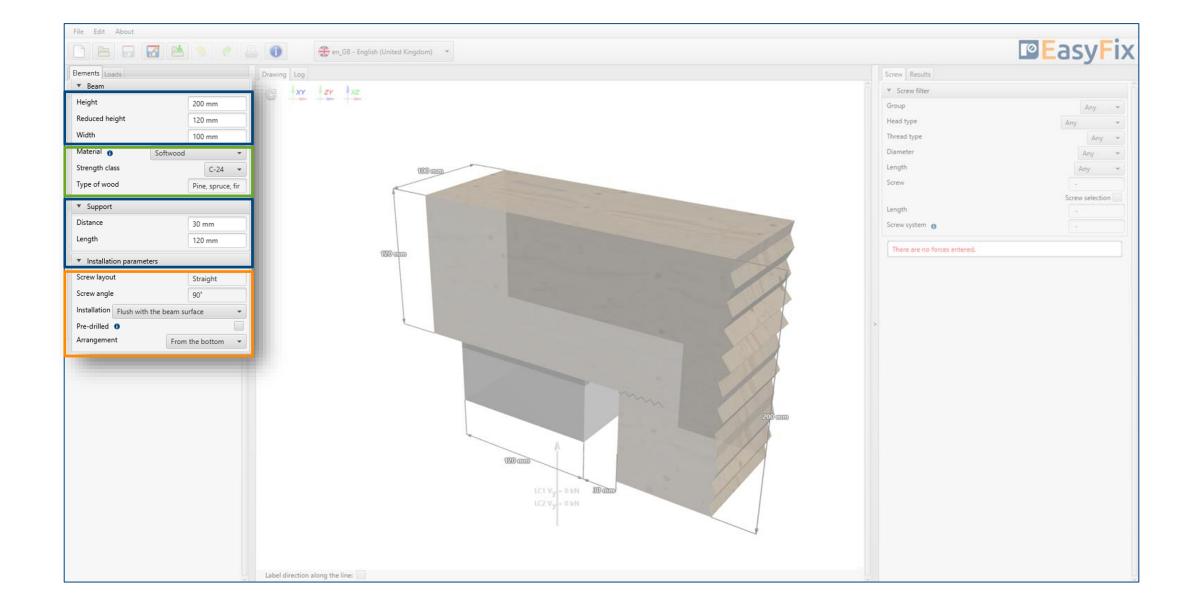
#### Material:

Inputting data by selection from the list.

### Installation parameters:

Inputting data by selection from the list or setting additional options.

First, define layout of elements as well their dimensions in cross section along with possible distance from their edges. Next, determine the type and strength class of the wooden material. Further stage is defining of screws assembly. Installation parameters should be defined depend on installation side and screw arrangement.





Data input Loads

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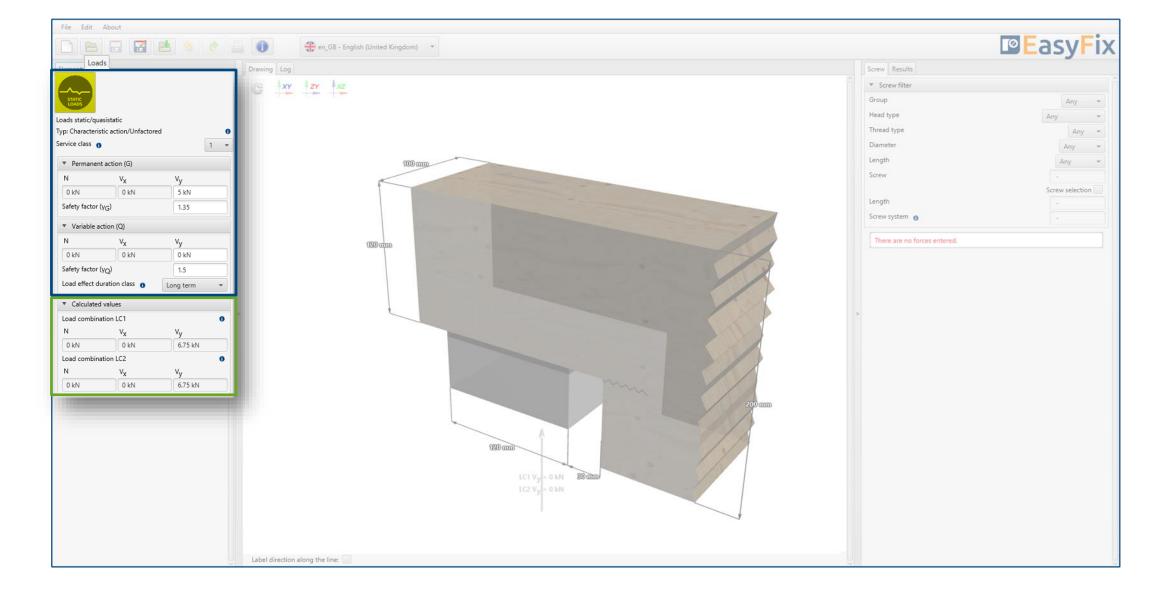
The final stage of data input is related to loads. In accordance to intended use, wood construction screws are dedicated for static or quasi static loads only. Define characteristic values of permanent and variable loads, service class and load effect duration class as well.

#### Loads:

Load values can be defined in the side panel and directly on the model as well.

### Load combinations:

Design load values for particular load combinations are presented at the bottom part of the panel.





3D Model

**»** 

Dynamic 3D model provides a User with a possibility of following results in real time.

### Geometry:

Dimensions can be defined in the side panel and directly on a model as well.

#### Loads:

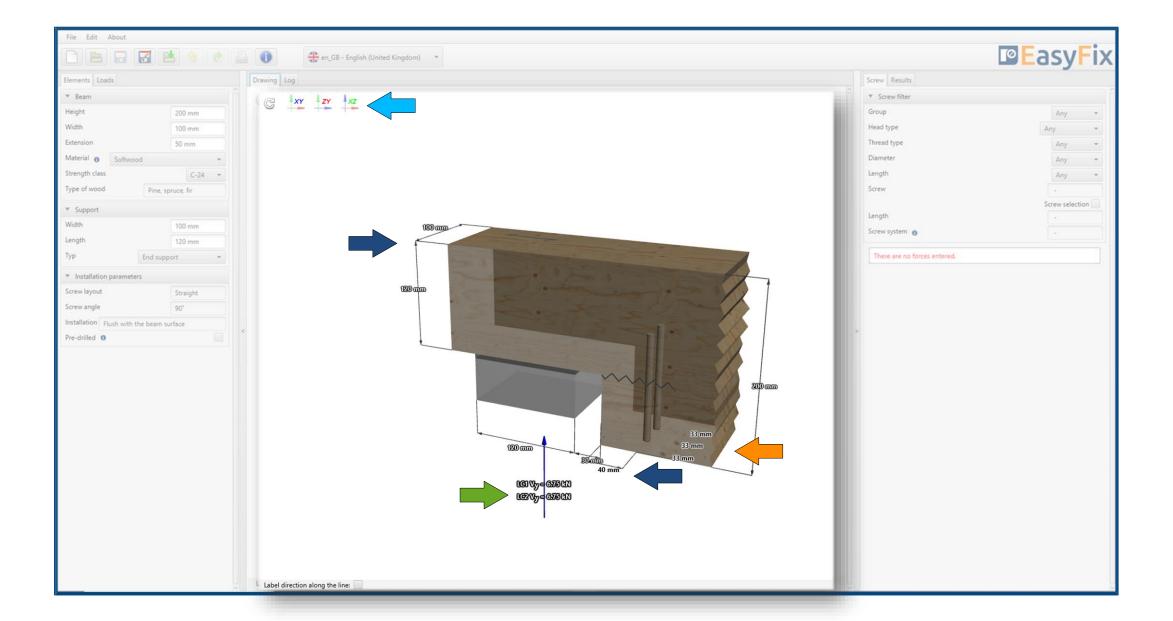
Load values can be defined in the side panel and directly on a model as well.

## Screws layout:

Designed layout is presented on a model with spacings and edge distances.

### Model navigation:

Model navigation utilises mouse control or default views.





Results Screw filter

**>>** 

#### Screw filter:

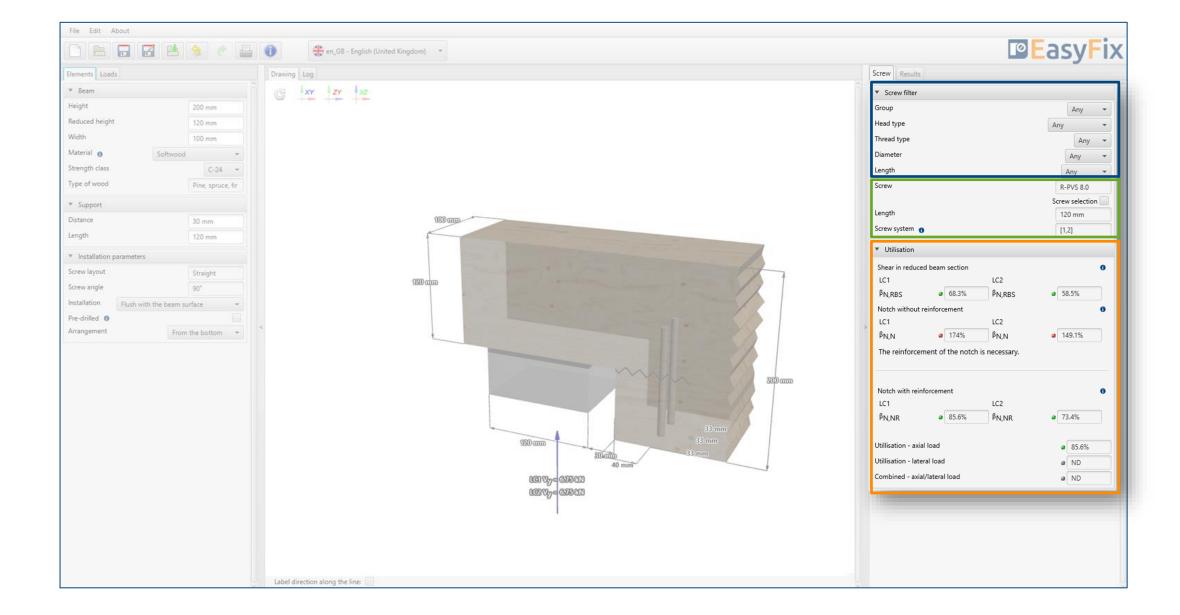
Using available filters allows to pre-define screws.

Designed product / Screw system: Information about design solution are presented in the middle part of the panel.

### Utilisation:

Basic data of utilisation of design solution is presented at the bottom part of the panel.

Notch reinforcement module is meant to select optimised number of the fasteners, their sizes and arrangement as well. Result can be managed by available filters. Resistance analysis is performed in two steps – without and with the reinforcement. Information of the reinforcement of the support is necessary is presented in Utilisation panel.





Result

Detailed analysis

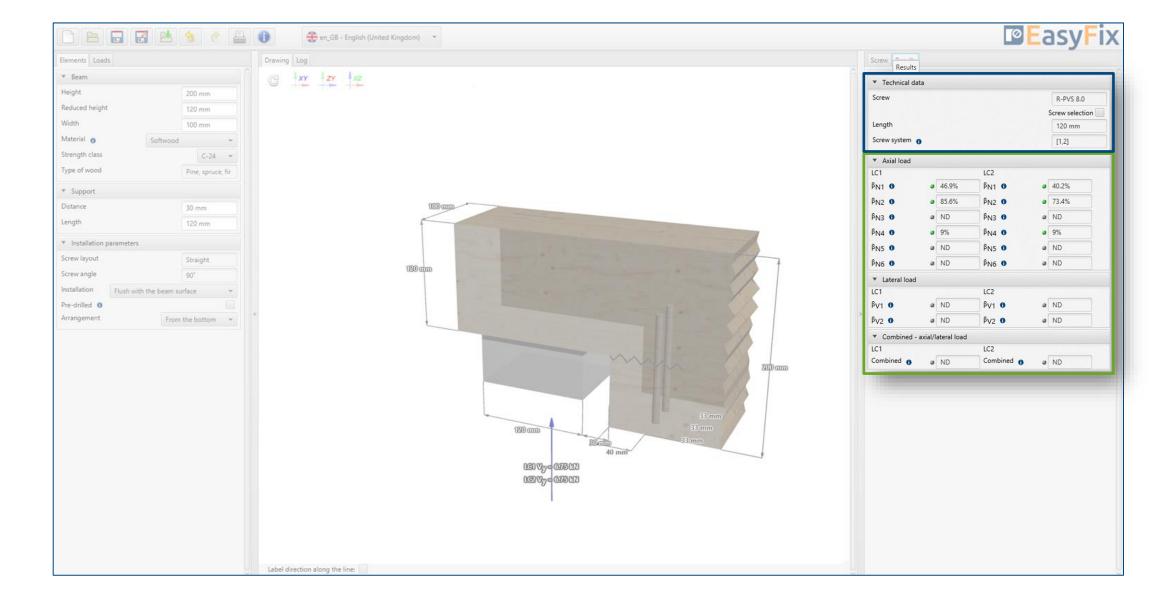
**>>** 

Detailed analysis allows to check utilisation level for particular failure modes. Defining crucial element helps analysing a case. Detailed information related to all failure modes are available via information icon.

Designed product / Screw system: Information about design solution are presented in the upper part of the panel.

### Utilisation:

Detailed data of utilisation of selected failure modes are presented at the bottom part of the panel.





Results
Calculation report

**>>** 

Generating a project report is started by clicking on the Print icon. Next, specify the language of the report along with a possible description. The report is printed to a pdf file, in a destination selected by a Customer.

### Print option:

Report language can be defined independently of software language that had been used for calculation process.

### Print description:

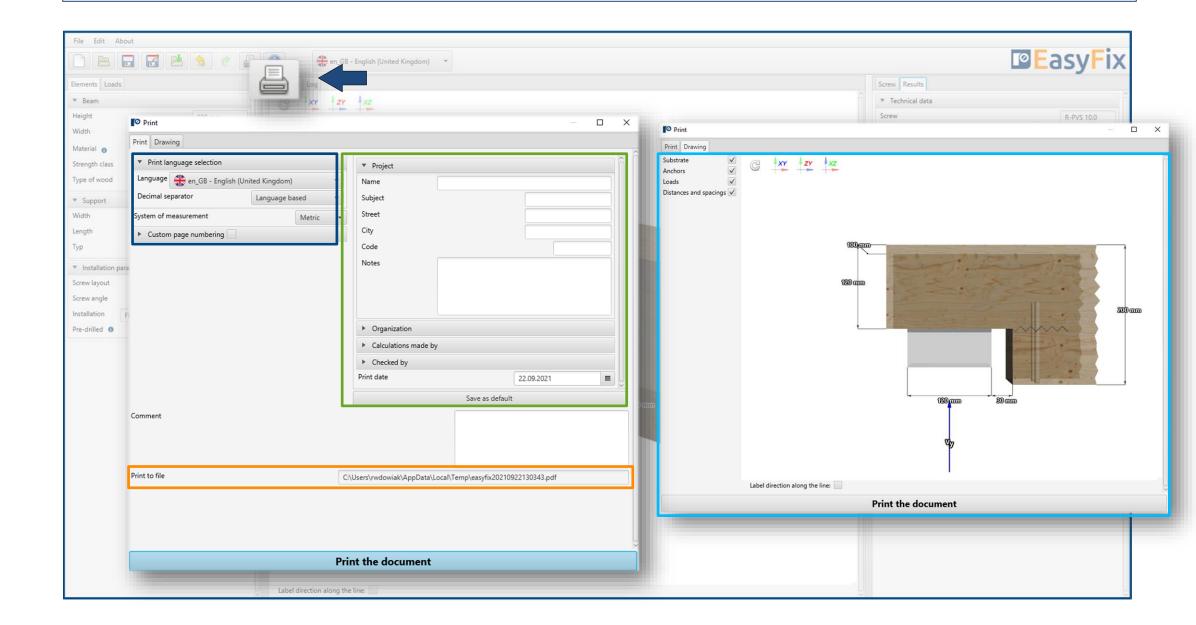
Detailed description helps to identify the calculation at a later stage of work. This information is visible on the header of each report page.

### File path:

Selecting the print file save destination.

### Drawing:

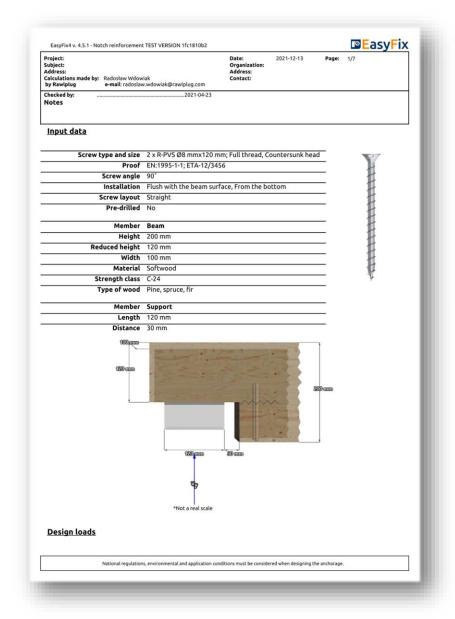
In the Drawing panel, it is possible to modify the final model view, that is presented in the printed version of the report.

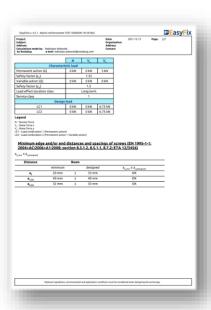


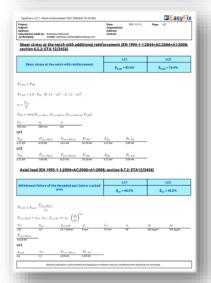


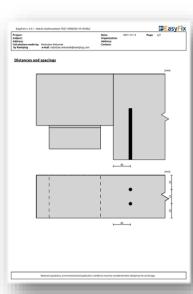
Result
Calculation report

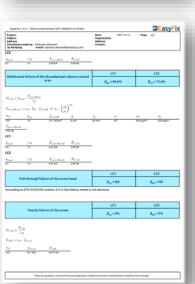
Design report includes all information concerning selected design, input data, loads, spacings and edge distance requirements. There are full calculation logs presented along with references to paragraphs concerning appropriate design guidelines.

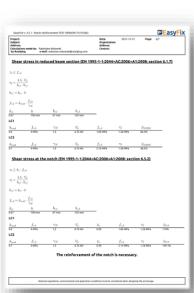


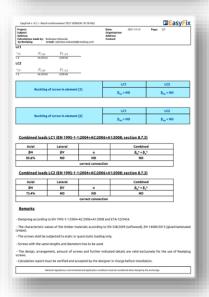














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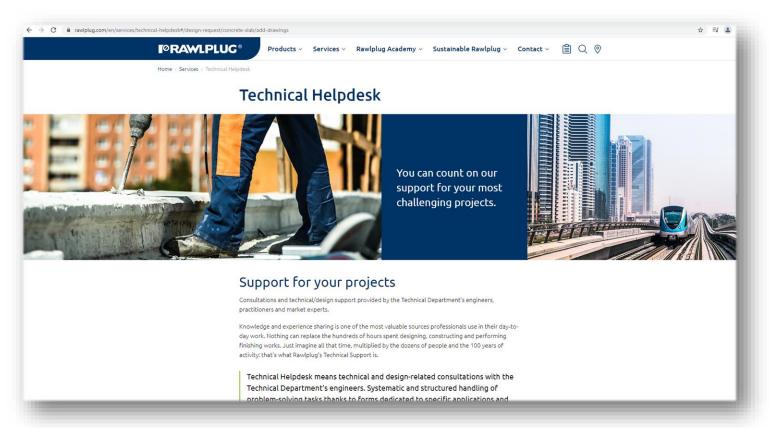


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Have you got any questions?

Visit EasyFix website or contact directly with Rawlplug Technical Department via Rawlplug Technical Helpdesk.





https://www.rawlplug.com/en/services/technical-helpdesk#/





