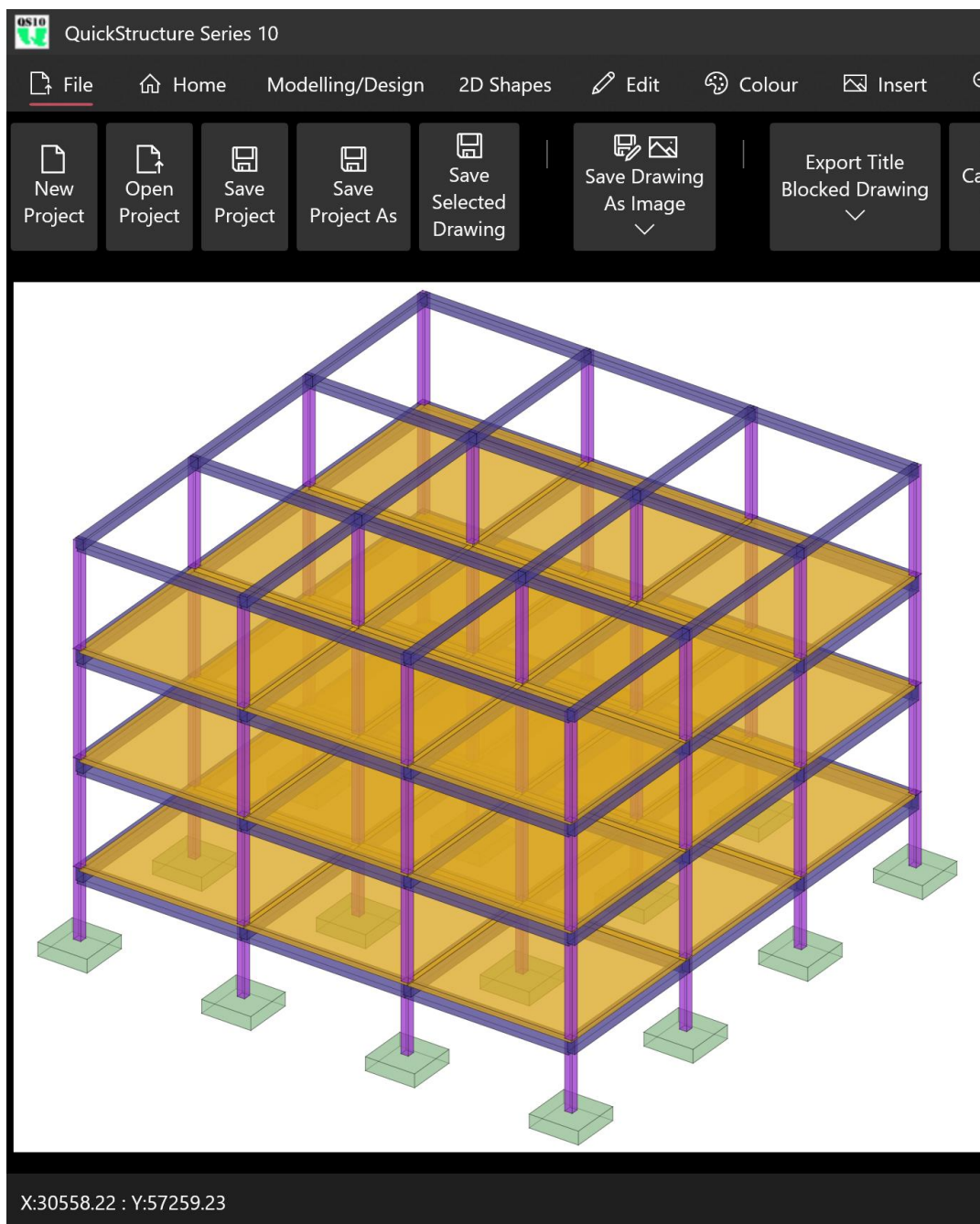


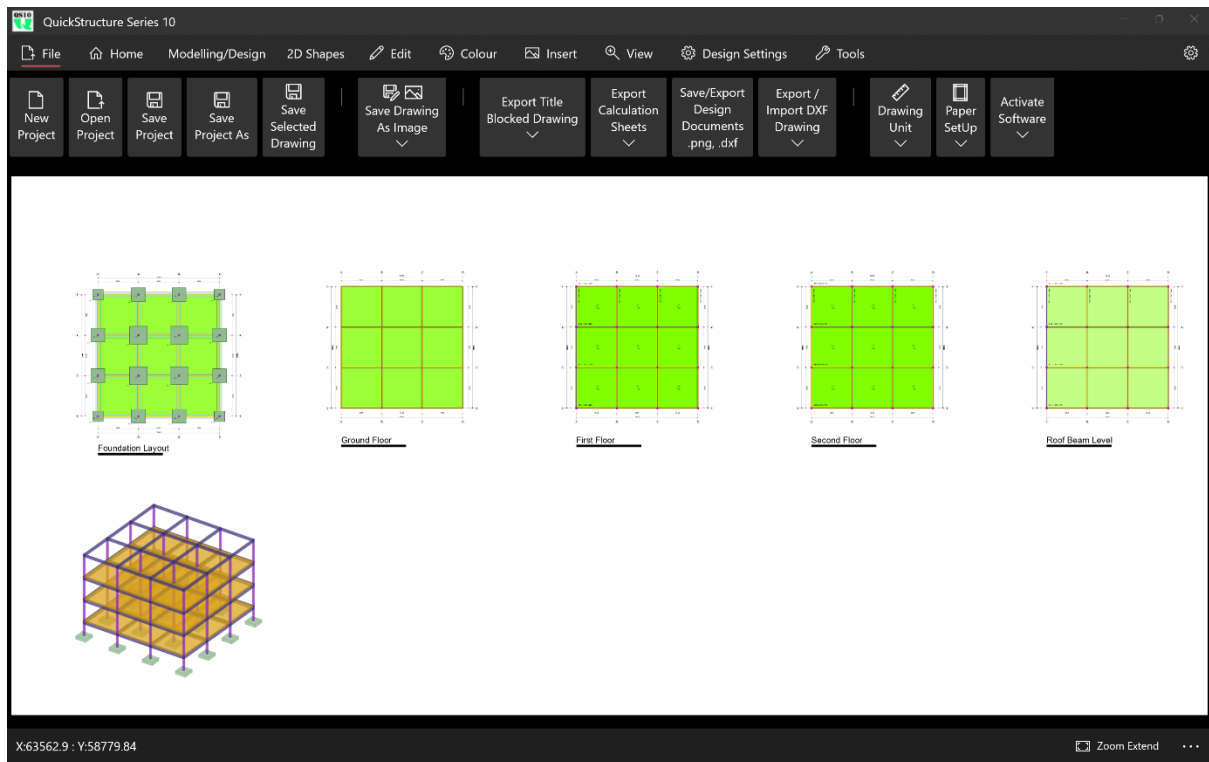
# QUICKSTRUCTURE 10

## TUTORIAL | PART 1

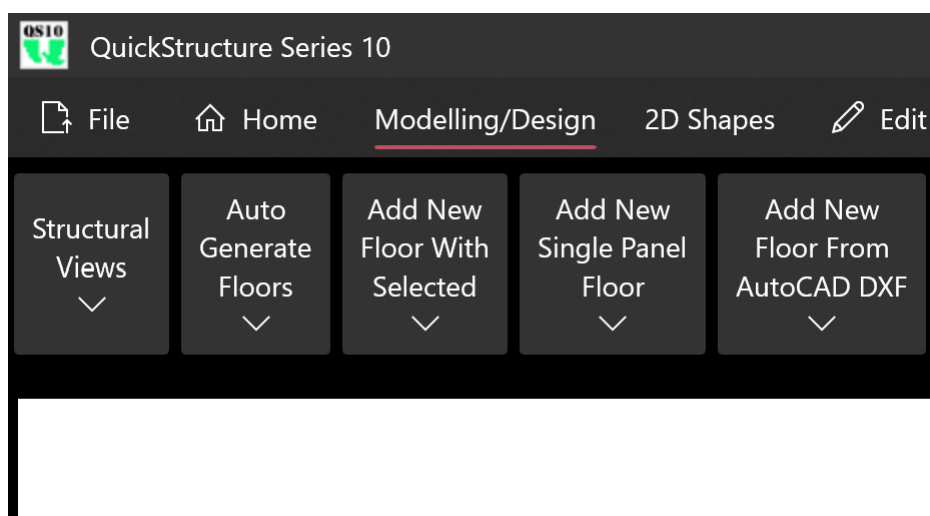
### AUTO GENERATE FLOORS



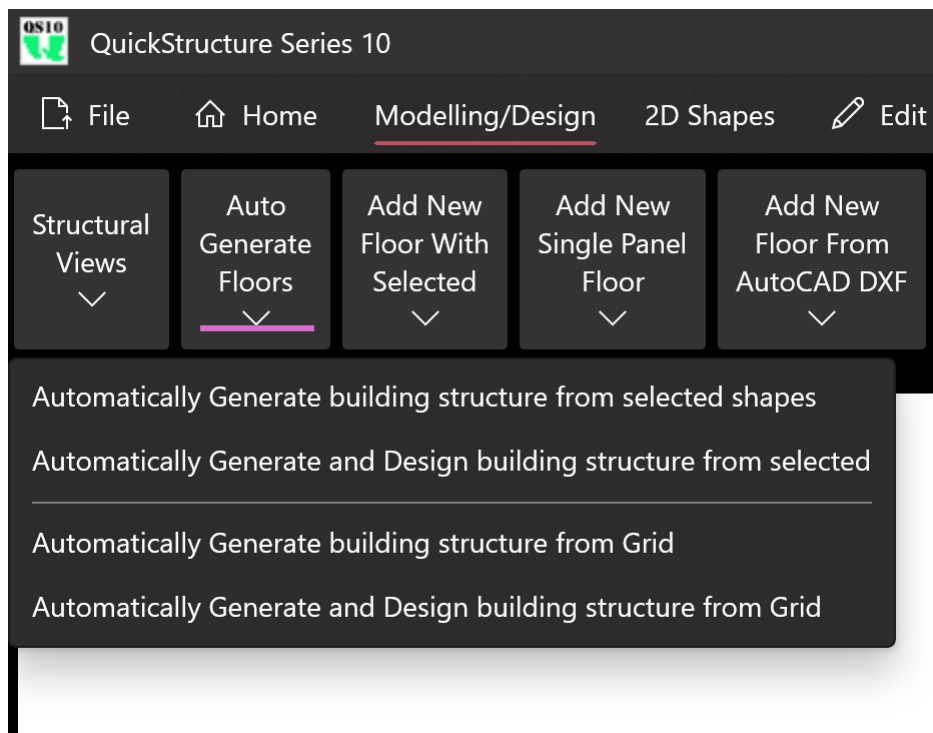
# How to Create Quick Grid of Panels and floors



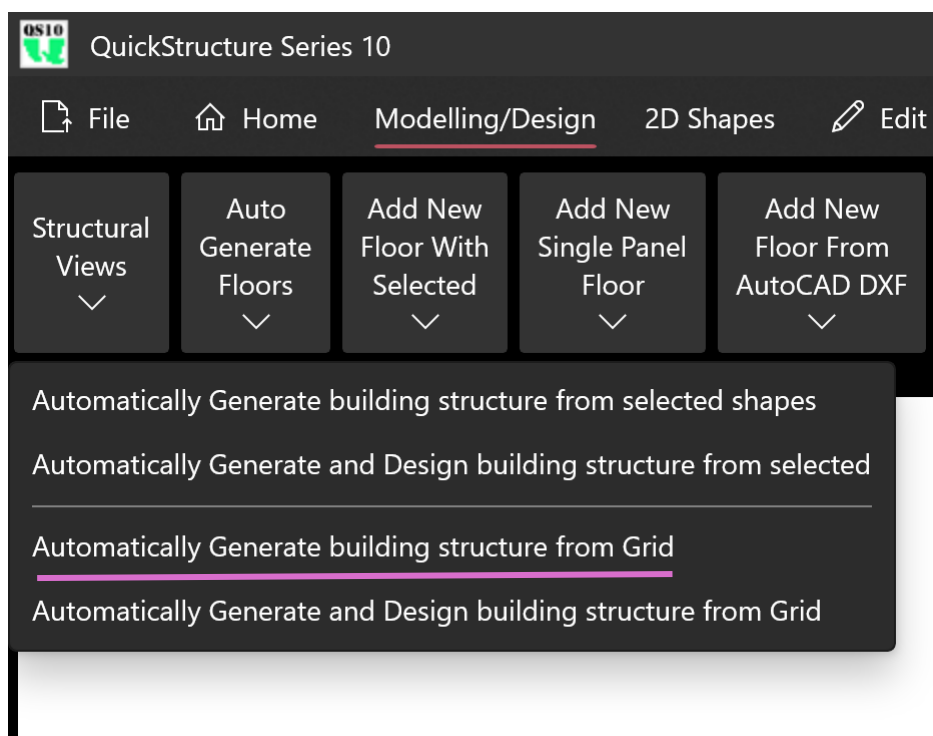
1. Click the Modelling/Design tab

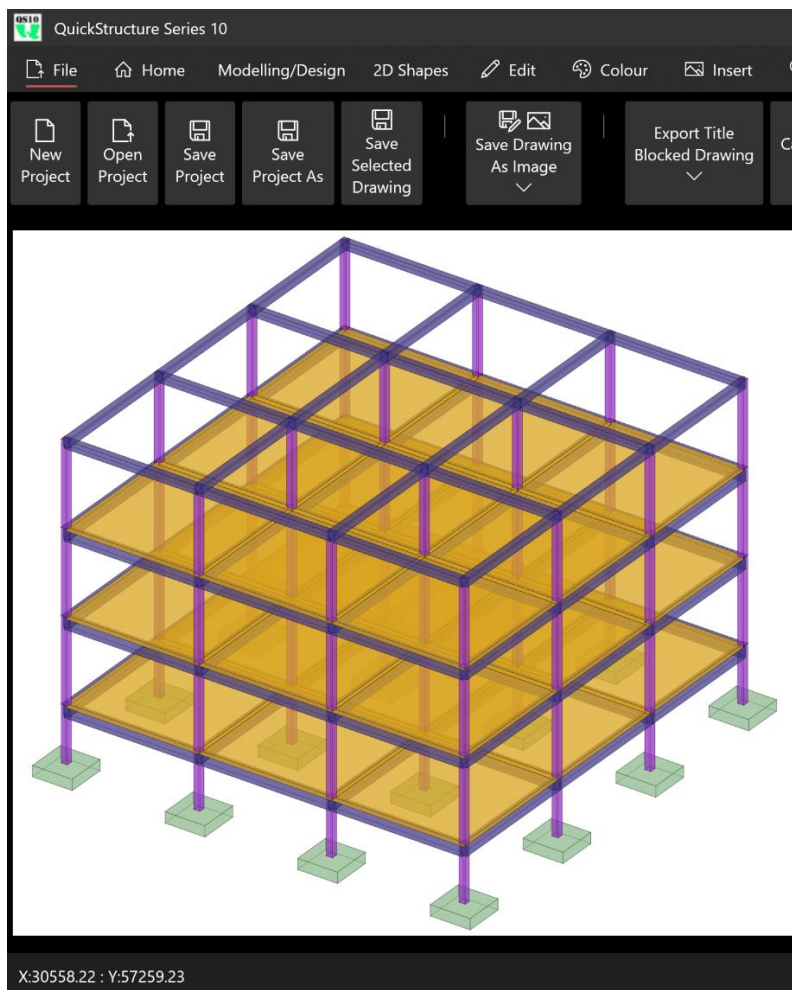
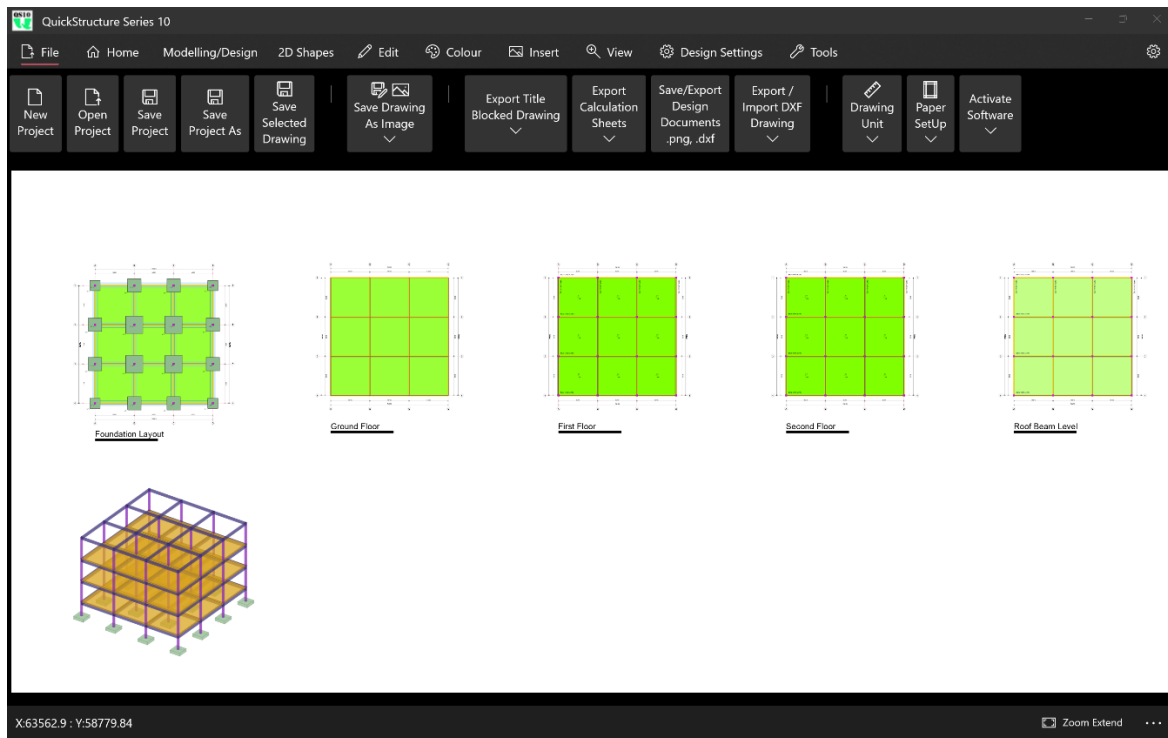


## 2. Click Auto Generate Floors button



## 3. Click Automatically Generate Building Structure from Grid menu





The software will automatically generate a grid of panels, the foundation layout, the first-floor general arrangement and the roof beam layout and the 3D model depending on the design settings.

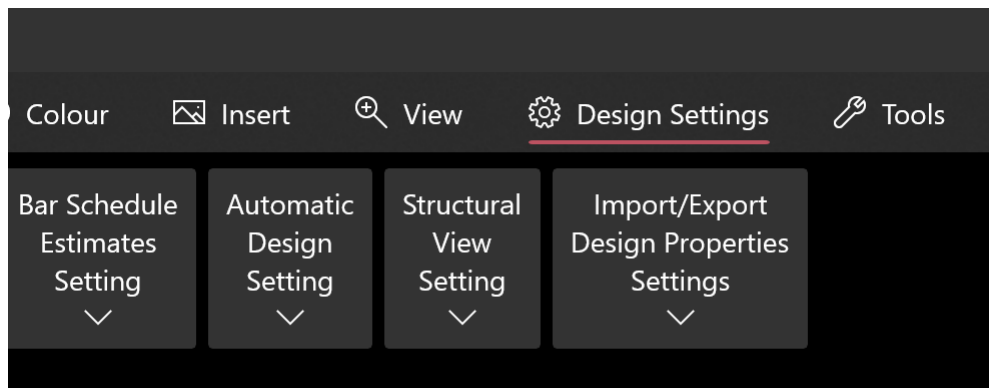
See the page below on how you can control these settings.

You can set these settings at the beginning of this exercise.

# The Panel Grid and Floor Settings

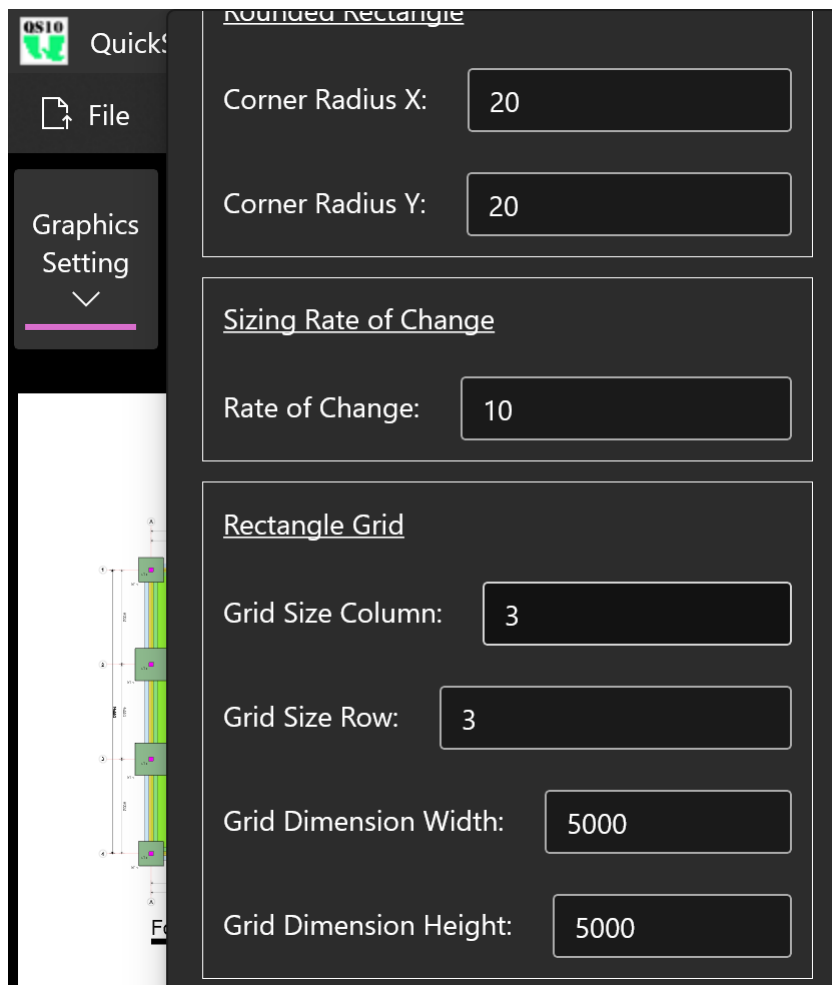
How to set the grid, panel widths, panel heights and number of floors.

## 1. Click the Design Settings



## 2. To set the panel grid and panel size, click the Graphics Setting button, scroll down.

- To control the number of grid column  
Set Grid Size Column:3
- To control the number of grid row  
Set Grid Size Row:3



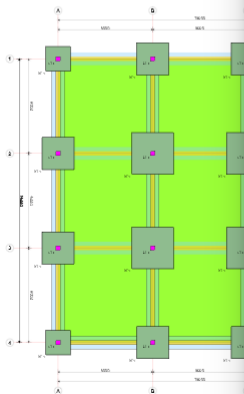
- To control the panel width  
Set Grid Dimension Width:5000
  - To control the panel height  
Set Grid Dimension Height:5000
3. To set the number of floors and floor height,  
click the Structural Modelling Setting button.



Graphics  
Setting



Structural  
Modelling  
Setting



Foundation Layout

### General Building Modelling Info

All Dimensions are in millimeters, except where indicated

Number of Floors:

2

Floor Height:

3150



Include Roof Beam Level

Floor Start Point X:

0

Floor Start Point Y:

0

Start Level:

0



Type of Foundation:



Pad Foundation



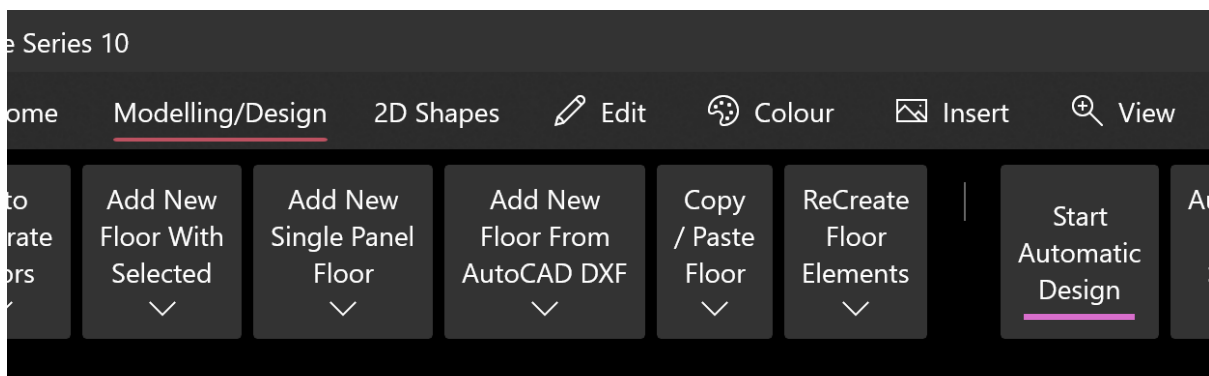
Raft Foundation

# How to Start Automatic Design

There are two ways to start Automatic Design Process.

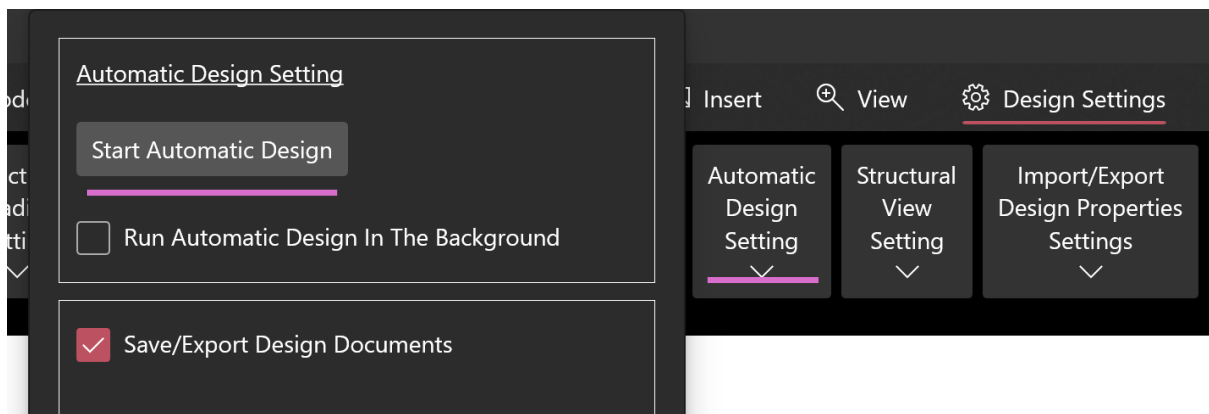
Option 1:

1. Click Modelling/Design tab and then click Start Automatic Design



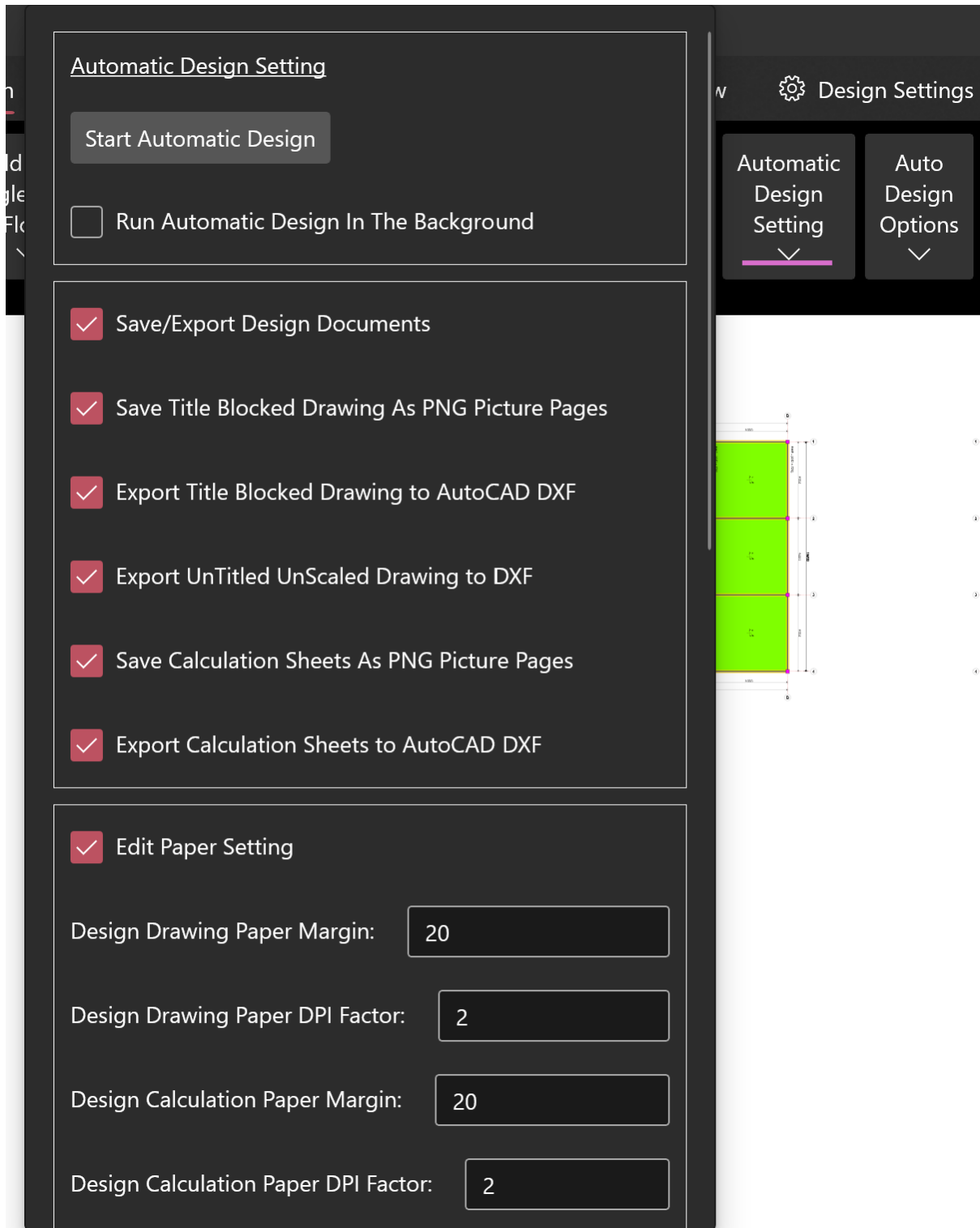
Option 2:

1. Click Design Settings tab, click Automatic Design Setting and then click Start Automatic Design



# Automatic Design Setting

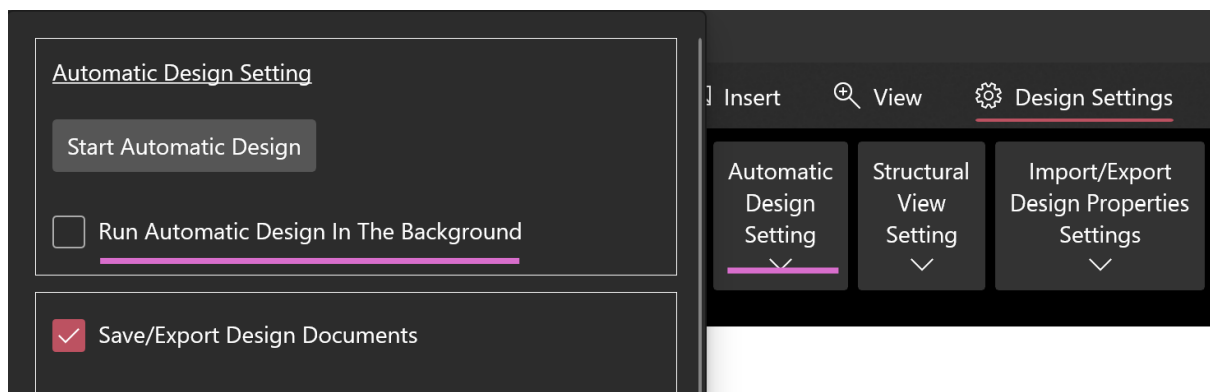
1. Click Design Settings tab and click Automatic Design Setting



You can control so many aspects of the automatic design from the setting. You can also run Automatic Design from here as shown above.

## To run Automatic Design in the background

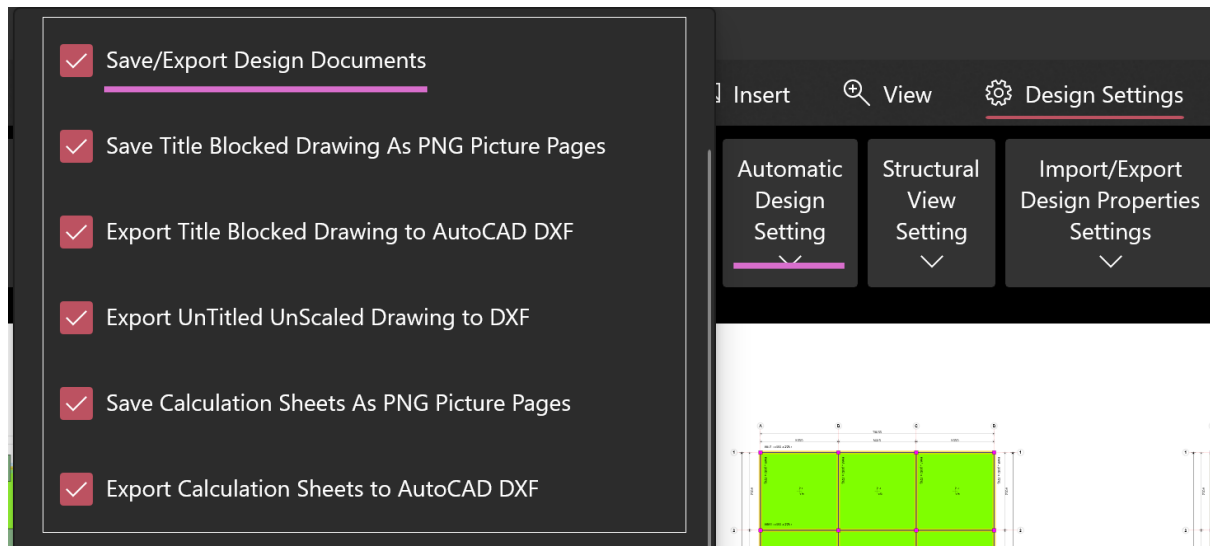
- Check Run Automatic Design in The Background



Note: This will make the process to run internally in the background. You don't need to use this option. You may use it if you have more than 1000 panels in the model. In most cases you don't need it.

# To Save/Export Design Documents Automatically

- To save design documents, Check Save/Export Design Documents

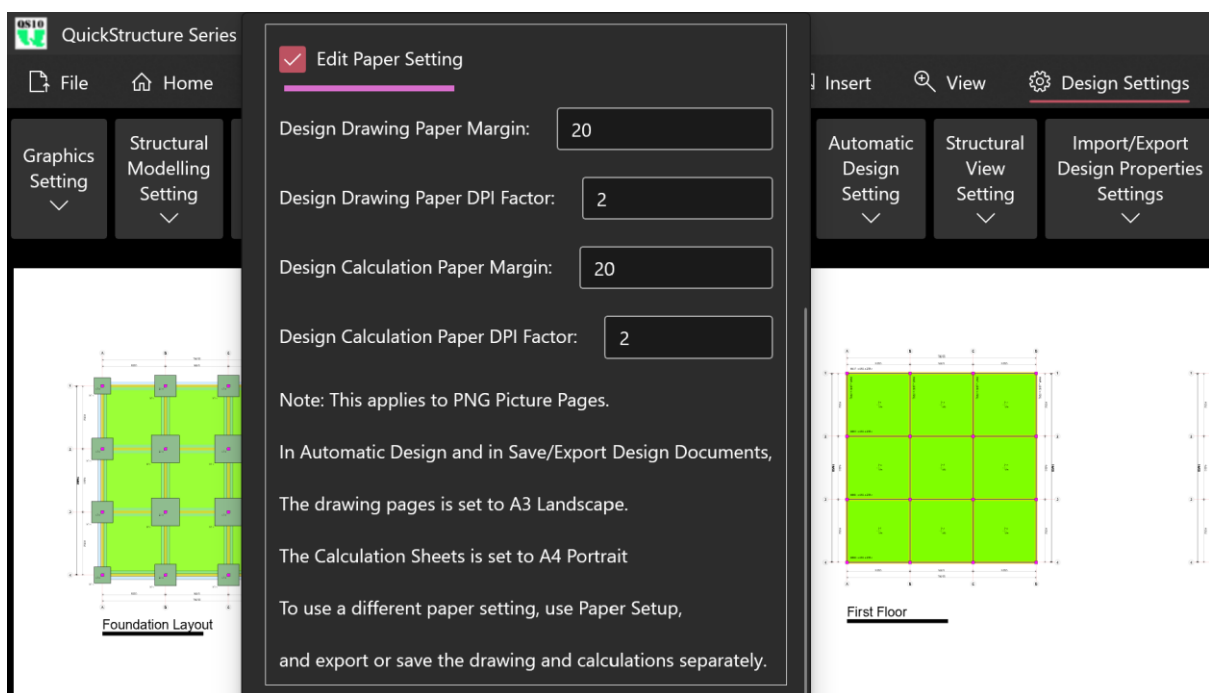


- To save title blocked drawing As PNG Picture pages, Check Save Title Blocked Drawing As PNG Picture Pages.
- To export title blocked drawing to AutoCAD DXF, Check Export Title Blocked Drawing to AutoCAD DXF
- To Export UnTitled UnScaled Drawing to DXF, Check Export UnTitled UnScaled Drawing to DXF

- To save Calculation Sheets As PNG Picture pages, Check Save Calculation Sheets As PNG Picture Pages.
- To export Calculation Sheets to AutoCAD DXF, Check Export Calculation Sheets to AutoCAD DXF

## To Edit Paper Setting

- Check Edit Paper Setting



Note:

The Paper Margins are in pixels. Just try with 20 and see the how it looks.

The Paper DPI Factor controls the quality of the Image generated. The higher the DPI, the bigger the size of the image. DPI 2 means the size of the image will be the double. Double the A3 size. This is good to ensure that the drawing will not be blurry.

Because automatic design will generate all the drawings, is better to leave the DPI at 2. If you want to have a bigger DPI, you can do that from File menu/Tab and save the drawing individually. We will talk about this later in a different section.

# To Edit Title Block Information

- Check Edit Title Block Information

and export or save the drawing and calculations separately.

☒ Edit Title Block Information

Project Title 1:

Project Title 2:

Company Name:

Consultant Name:

Drawn By / Made By:

Designed By:

Checked By:

Date Of Design:

Design Code:

☒ Center Drawing Within TitleBlock

Insert

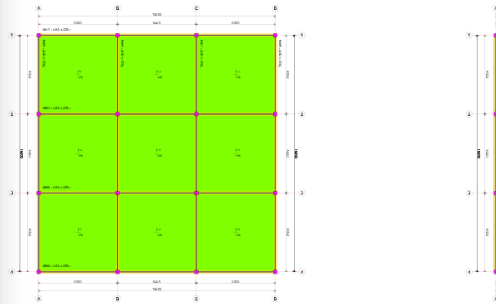
View

Design Settings

Automatic Design Setting

Structural View Setting

Import/Export Design Properties Settings

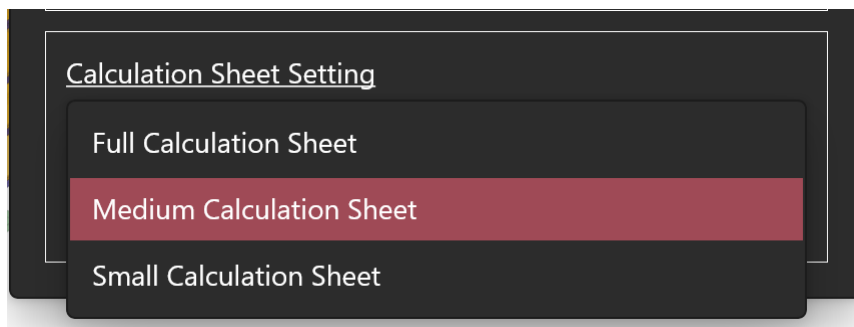
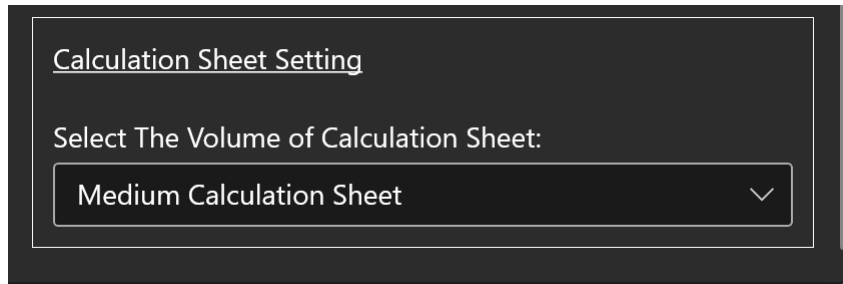


First Floor

- Enter the Title Block Information

# To Edit The Volume of Calculation Sheet

- Select The Volume of Calculation Sheet from the drop-down box



## Note:

Full calculation sheet option gives the full calculation, which is a lot of volumes.

Finally, you will need to save the file for design settings to be saved. To save the file, click File and click Save Project. More on saving later.