



EVERYTHING BETTER

Knowledge Bridge Configurator

User Manual

V1.0

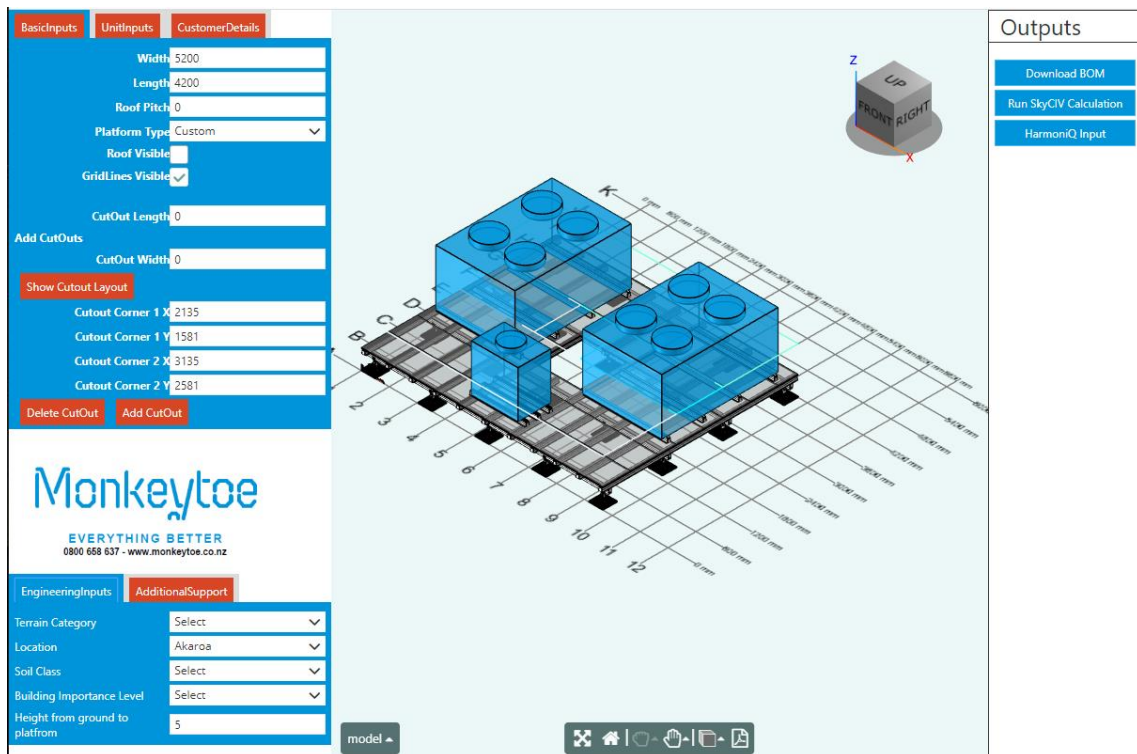




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Background

This user manual outlines the basics of how to use the KBridge Online Configurator for Monkeytoe platforms, as well as the specifics of how to create a plan for a SmartGrip platform.

Version History

Version	Date	Author	Changes
0.1	2/04/20	Tim B	Initial Draft for Approval



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1. Basic KBridge Use

Navigating around KBridge can be achieved by using the main control panel at the bottom of the KBridge window

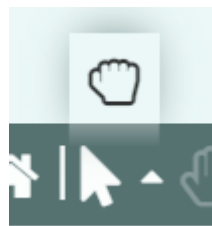
a. Control Panel



i. Home view (ISO view of the model)

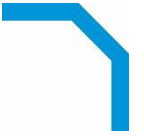


ii. The pointer is used to select. The closed fist icon is used to drag objects around the model



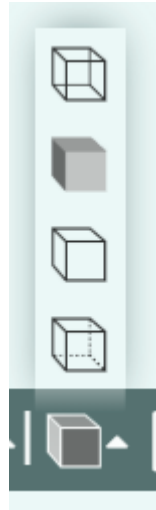
iii. The open hand tool is used for panning the view. The magnifying glass is for zooming. The mouse scroll wheel can also be used to zoom). The person Icon is used to rotate the model in 3D world.





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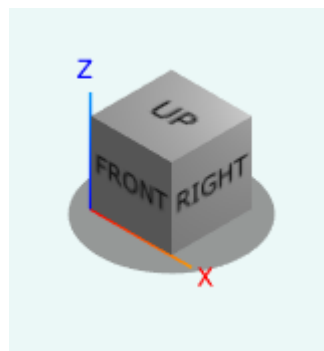
- iv. The various cube icons are used to see different wireframe of complete views of the model



- v. The PDF icon allows the user to download the current view into a PDF document.



- vi. The Geometric world box can be used for orientating the model into different views like top view or front view, or angles in between these. To go to a specific view, simply click on the desired highlighted area of the cube. Alternatively, you can spin the cube by clicking and dragging the cube around to change the model view as well.





2. Building a Platform

To configure a platform, go to the *BasicInputs* tab.

BasicInputs UnitInputs CustomerDetails

Width 5200

Length 4200

Roof Pitch 0

Platform Type Rectangle

Roof Visible ☐

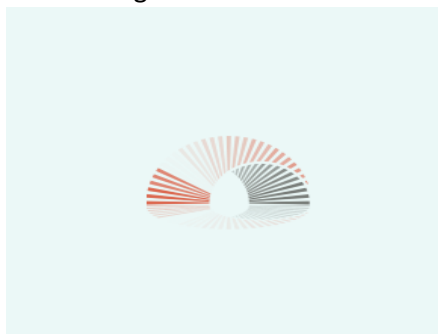
GridLines Visible ☐

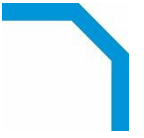
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- Width** is the measurement towards the edge of the roof. Primary bearers run along this axis.
- Length** is along the roof
- Roof Pitch** is the angle the roof is inclined towards the width axis
- Platform Type** can be Rectangle, L shape or custom shape
- Roof Visible** to make the roof visible in the model. (turn off when viewing Drawings)
- Gridline Visible** make the configurable building Gridlines visible in the model. (turn off when viewing Drawings)
- After changes are made to the model parameters, a waiting graphic is shown in the model window, as per below. Please wait for this graphic to disappear before making more changes





3. Cutouts

- a. When the Platform type is set as custom, a set of inputs appear in the *BasicInputs* Tab to customise the platform shape using cut-outs.

The screenshot shows the 'BasicInputs' tab of the Monkeytoe software interface. The tab is highlighted in orange. Below the tab, there are several input fields and buttons:

- Width:** 5200
- Length:** 4200
- Roof Pitch:** 0
- Platform Type:** Custom (dropdown menu)
- Roof Visible:** ☐
- GridLines Visible:** ☐
- CutOut Length:** 0 (highlighted by a yellow arrow)
- Add CutOuts:** (button)
- CutOut Width:** 0
- Show Cutout Layout:** (button)
- Cutout Corner 1 X:** 2135
- Cutout Corner 1 Y:** 1581
- Cutout Corner 2 X:** 3135
- Cutout Corner 2 Y:** 2581
- Delete CutOut:** (button)
- Add CutOut:** (button)

- b. Input the length and width of the cutout required and click the *Show Cutout layout* button.
A draggable cutout layout will appear near the platform

Roof Visible ☐

GridLines Visible ☐

CutOut Length 1200

Add CutOuts

CutOut Width 1200

Show Cutout Layout

Cutout Corner 1 X 5311

Cutout Corner 1 Y 0

Cutout Corner 2 X 6511

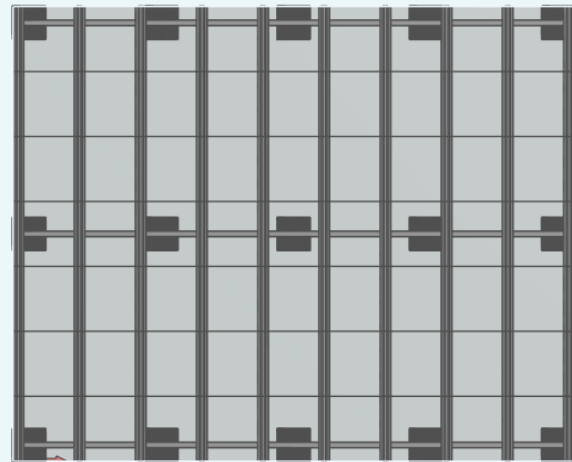
Cutout Corner 2 Y 1192

Delete CutOut Add CutOut

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- c. Drag and place the Layout to where you want hole to be cutout. Adjust finely in the *Cutout corner* inputs.

The corners are the diagonal corner points of the layout rectangle.

Roof Visible ☐

GridLines Visible ☐

CutOut Length 1200

Add CutOuts

CutOut Width 1200

Show Cutout Layout

Cutout Corner 1 X 1983

Cutout Corner 1 Y 1440

Cutout Corner 2 X 3183

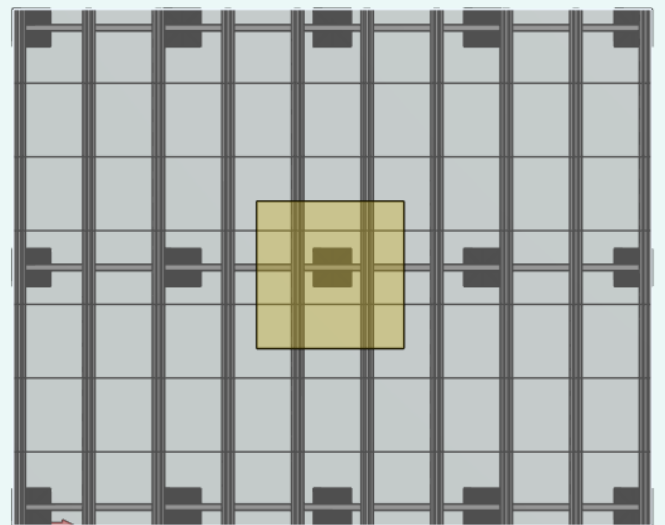
Cutout Corner 2 Y 2640

Delete CutOut Add CutOut

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- d. Right click on the cutout and click '*Punch Cutout*'. This will make the cutout in the platform and adjust the Smartgrip feet and bearer rails as appropriate.

Add CutOuts

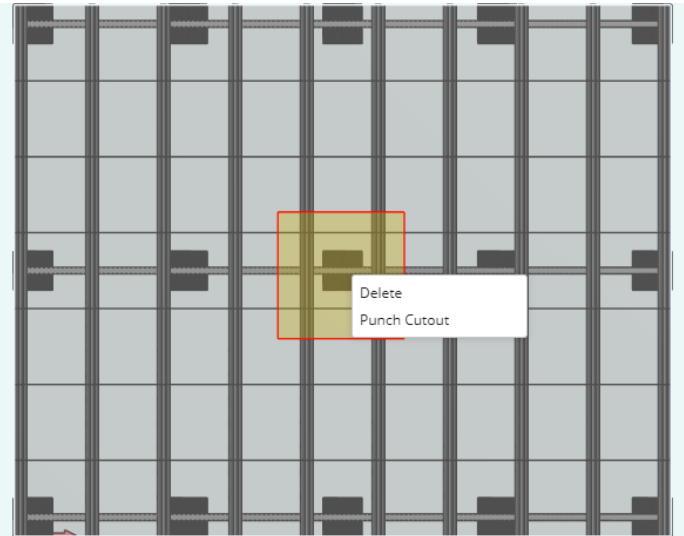
Show Cutout Layout

Delete CutOut

Add CutOut

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- e. After cutout is made right click and *delete* the cutout layout

Add CutOuts

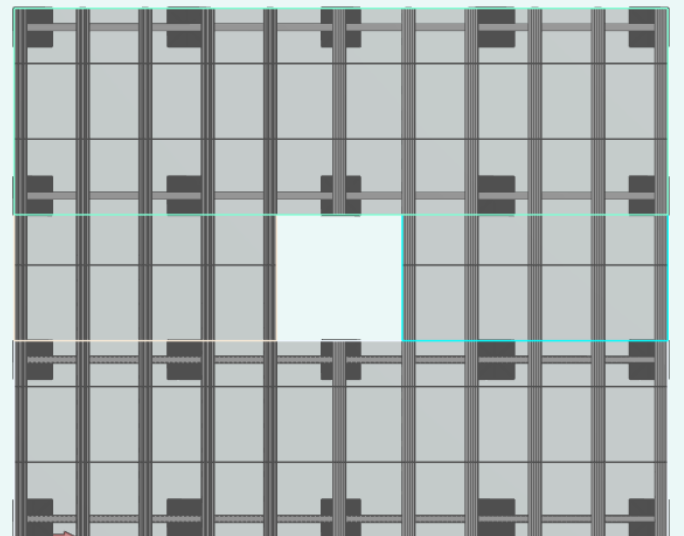
Show Cutout Layout

Delete CutOut

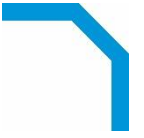
Add CutOut

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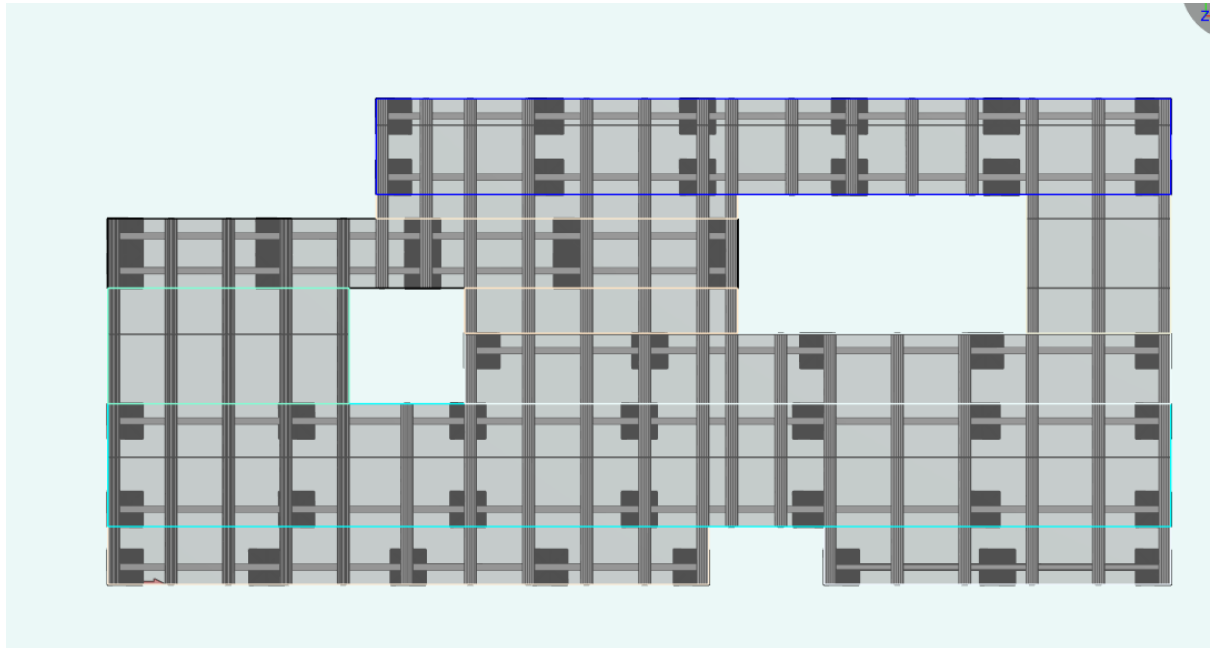


- f. You can create multiple cutouts with same layout by dragging and placing it in different areas, then right clicking and clicking '*Punch Cutout*' again.



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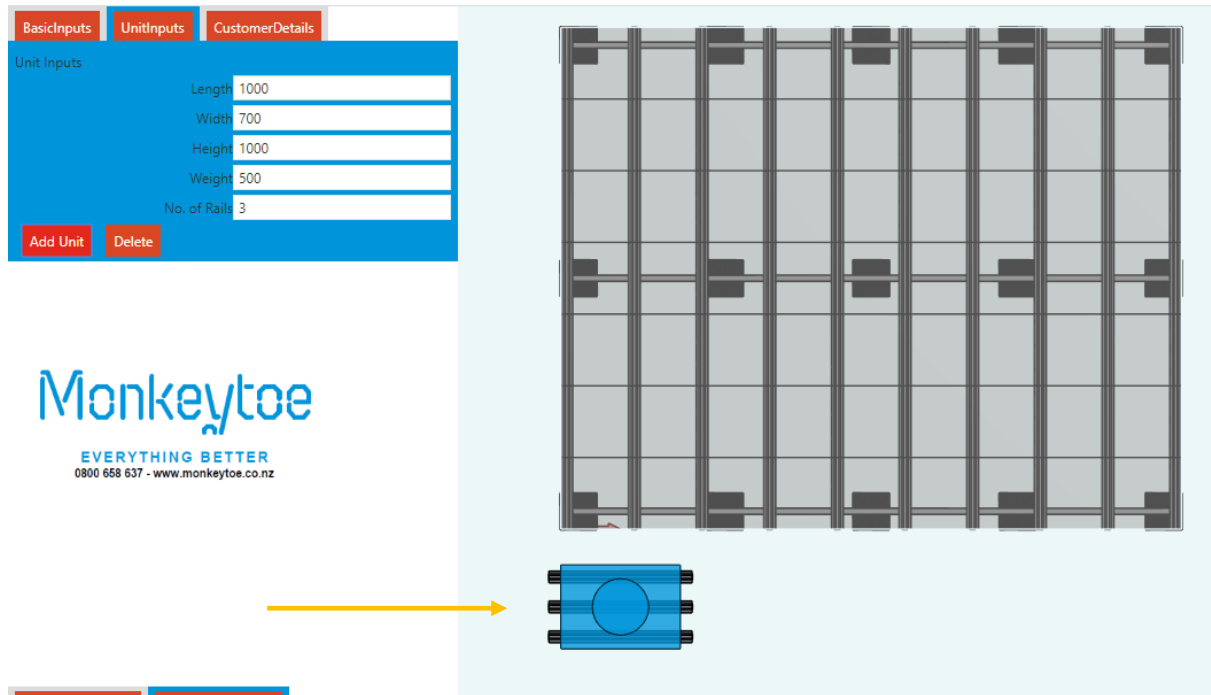
- g. You can also create multiple cutout layouts and create complex shapes with the platform.



- h. Cutouts can be deleted using the '*Delete Cutout*' Button. This will delete the last added cutout.

4. Placing HVAC units on the platform

- Click on the *Unit Inputs* tab to reveal HVAC unit inputs.
- Give dimensions of each unit and click 'Add unit' to view the Unit near the platform.

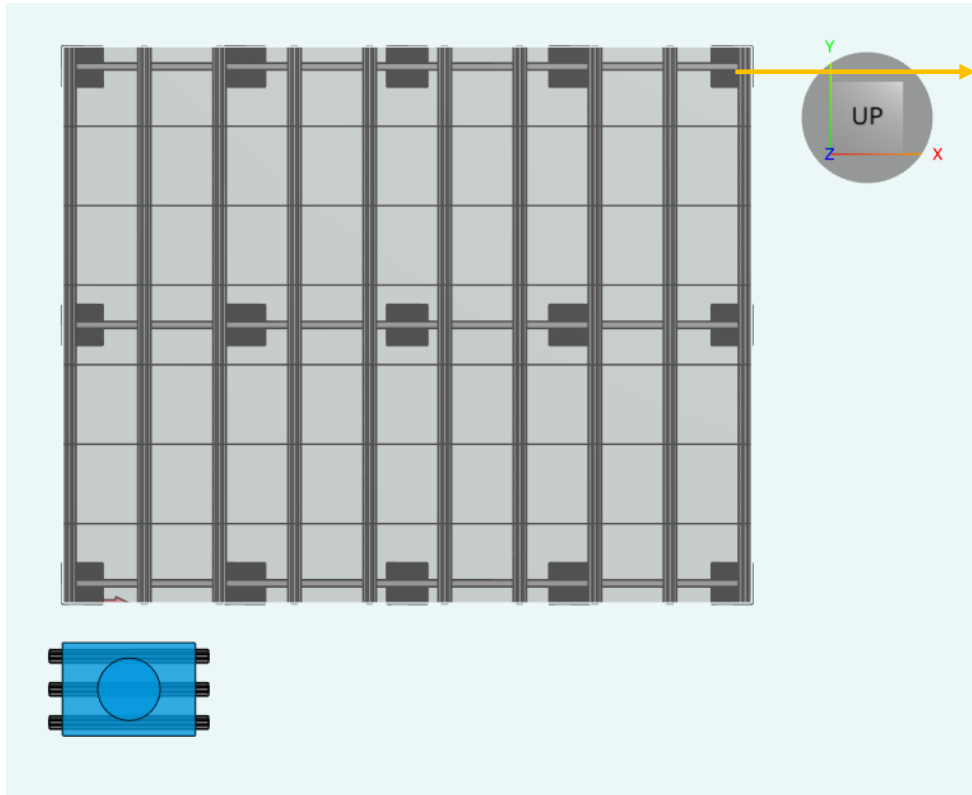


The screenshot displays the Monkeytoe software interface. On the left, the 'Unit Inputs' tab is active, showing a form with the following fields: Length (1000), Width (700), Height (1000), Weight (500), and No. of Rails (3). Below these fields are 'Add Unit' and 'Delete' buttons. The Monkeytoe logo and tagline 'EVERYTHING BETTER' are visible below the form, along with the contact information '0800 658 637 - www.monkeytoe.co.nz'. On the right, a 3D perspective view of a platform is shown, consisting of a grid of vertical rails and horizontal beams. A blue HVAC unit, represented by a rectangular block with a circular fan, is shown at the bottom, with a yellow arrow pointing towards the platform grid, indicating its placement.

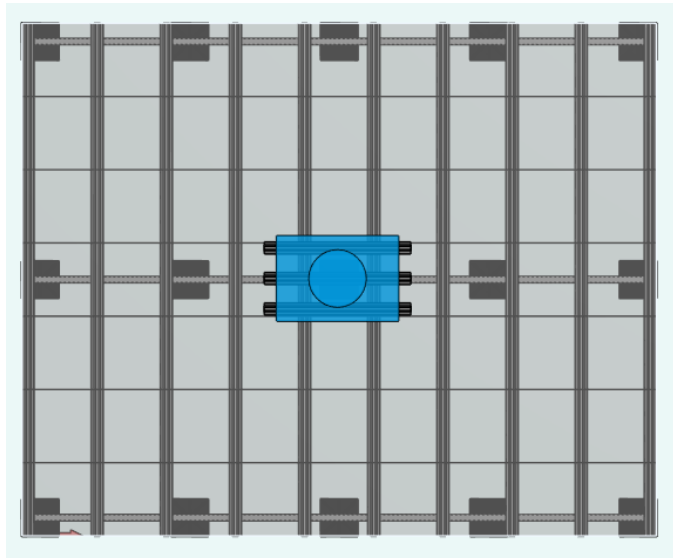


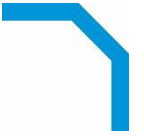
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- c. If you are in any other view click on the box at the top right corner and go into 'UP' view. This allows for easier dragging and placement of the unit on the platform.

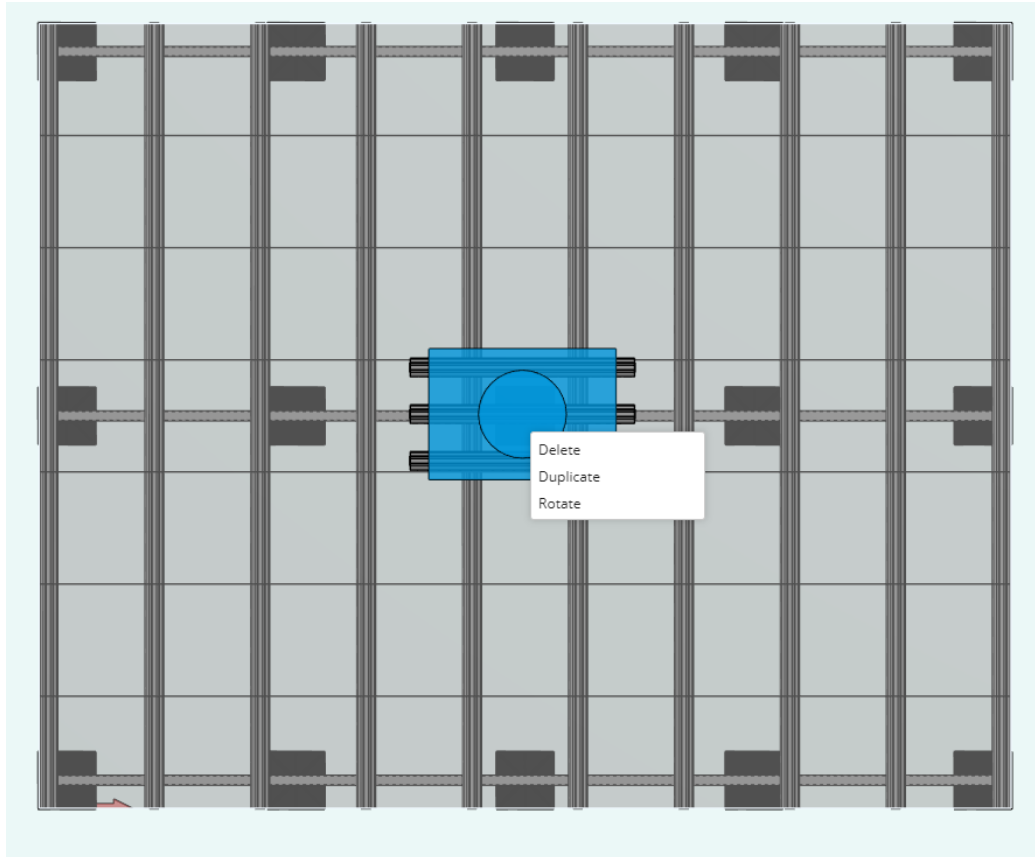


- d. Click on the *Dragging Tool* (closed fist) and drag the unit to the required location on the platform





- e. Right Click on the Unit to reveal Menu to *Rotate*, *Duplicate* or *delete* the unit.



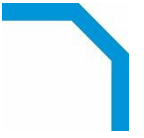


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5. Engineering Inputs

- a. Click on the 'Engineering Inputs' tab to input data regarding the *Location, Terrain, Soil Class, Building importance level* and *height* from ground to the platform.

EngineeringInputs	AdditionalSupport
Terrain Category	1 - Exposed open terrain with
Location	Auckland
Soil Class	C - Shallow Soil - Refer AS/NZ
Building Importance Level	2 - Medium consequence for
Height from ground to platform	5



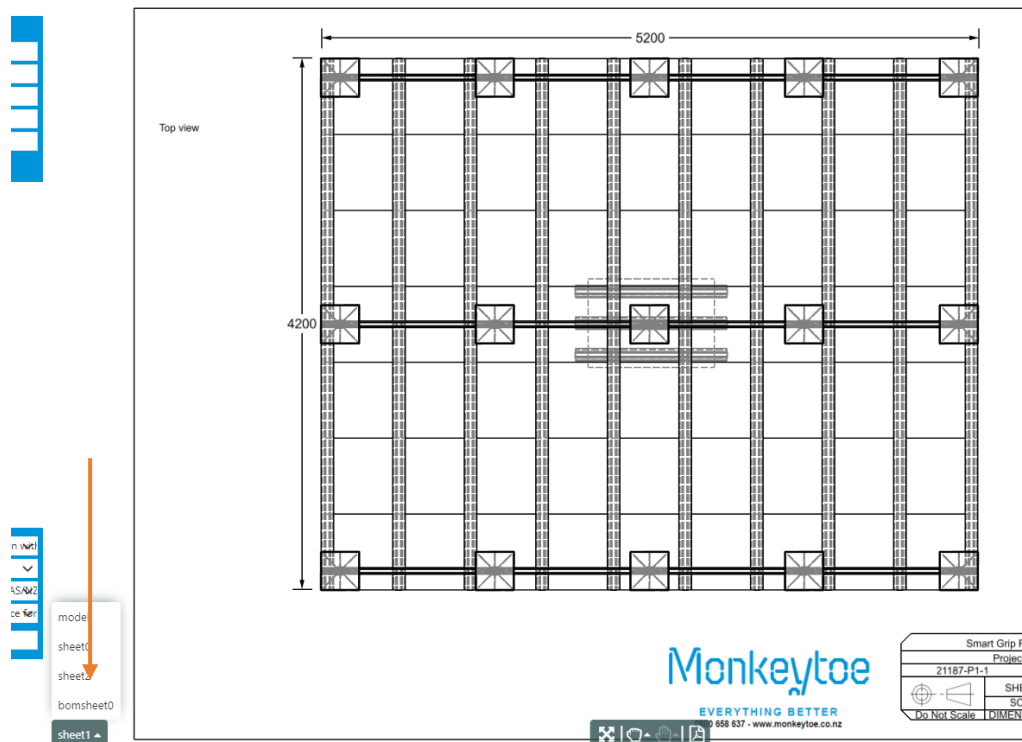
6. Outputs

a. The configurator can generate three main outputs:

- Drawings
- BOM
- SkyCiv input JSON

b. **Drawings**

Click on the tab at the bottom left corner to reveal the drawings



Sheet0 is an ISO view

Sheet1 is the Top View

Sheet2 is the Side Views

BomSheets is the Bill Of Materials tables

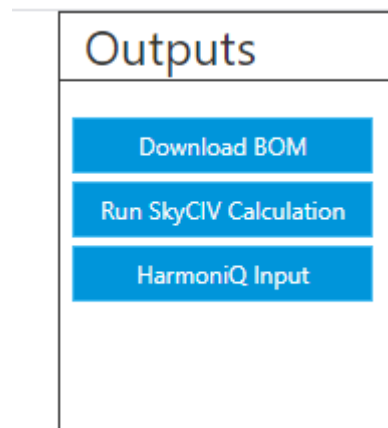
Click on the PDF icon at the icon to download whichever view is on display.





c. BOM

- i. The configurator can generate two types of BOM tables – One for assembly, and one to load into HarmoniQ for stock usage
- ii. The BOM for assembly can be downloaded using the '*DownloadBOM*' button
- iii. The BOM for importing into HarmoniQ can be downloaded using the '*HarmoniQ Input*' button. The results of this file can be copied and pasted into the appropriate area in HarmoniQ.



d. SkyCIV Input

SkyCIV is a cloud engineering software which does structural analysis.

- i. The configurator generates a model of the created platform with added loads and engineering data for SkyCiv.
- ii. This can be downloaded in JSON format from the Run SkyCIV Calculation Button.
- iii. The downloaded JSON file can be opened in SkyCIV to run Structural analysis of the platform. See the separate SkyCiv user manual for how to complete this.