



Rhino Calculator User Instructions

RELEASE 1.4

Updated 3 December 2018

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Introduction

Overview

Rhino Calculator is a web-based application that allows you to define the layout of a building and then automatically calculate the Rhino load deck system components required for that building.

Rhino Calculator can be accessed using most modern web browsers that support HTML5.

It has been tested on the following browsers:

- Google Chrome 70
- Mozilla Firefox 63
- Microsoft Edge*
- Microsoft Internet Explorer 11*

*Please note that whilst Rhino Calculator is fully compatible with Microsoft Edge and Microsoft Internet Explorer 11, you may experience slower performance compared to other browsers. For best results we recommend Google Chrome.

Getting Started

Opening the Application

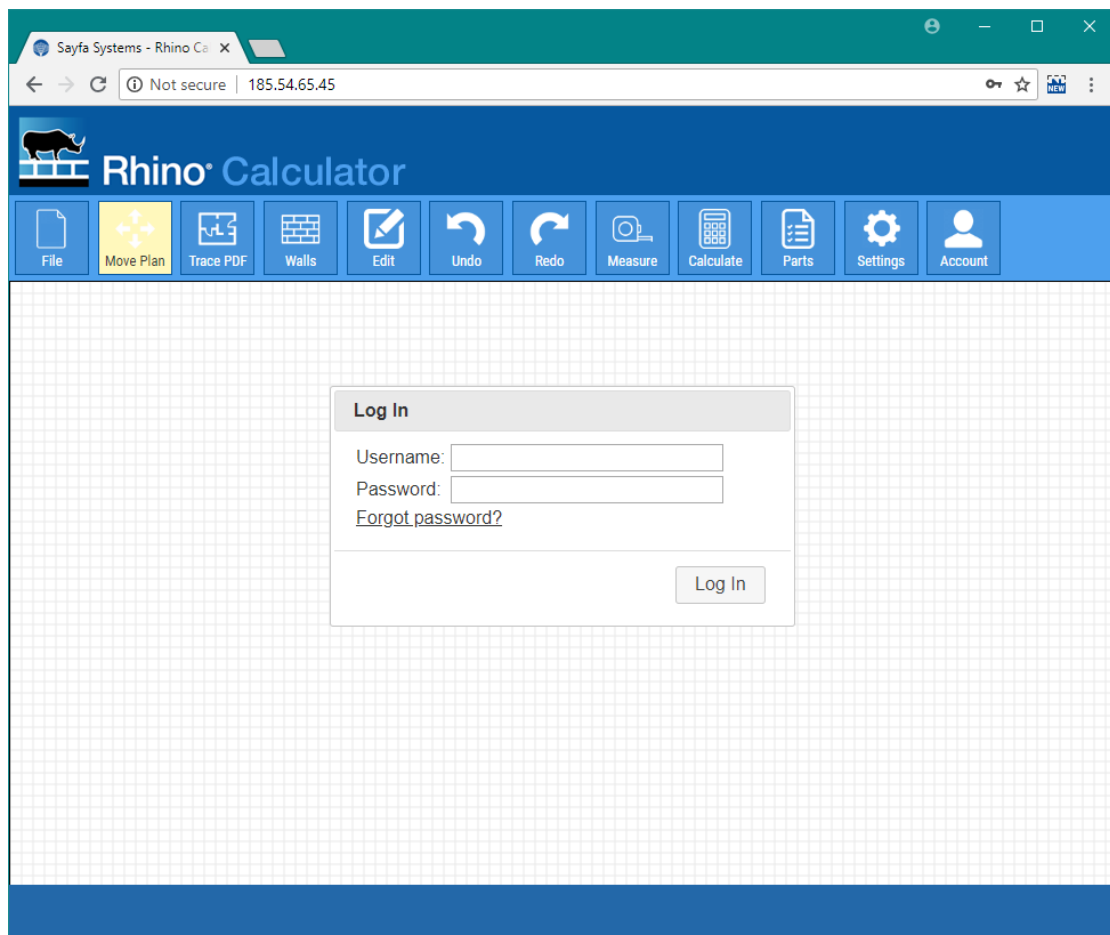
To open the application, visit the following URL in your web browser:

<http://178.238.135.224/>

Log In

Before you can begin using Rhino Calculator you must log in. Logging in allows you to save your plans in your own unique area and maintain your own user preferences.

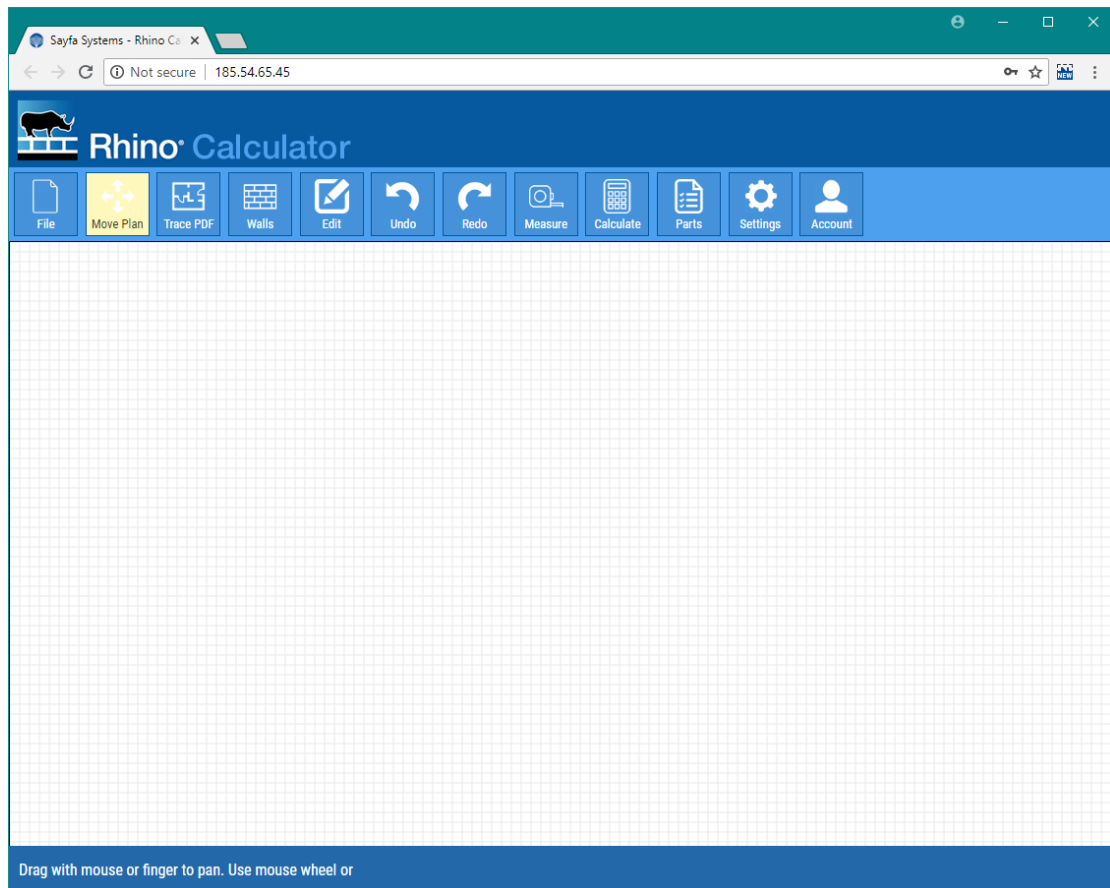
To log in, enter your username and password and click the [Login](#) button (or press the ENTER key).



The Rhino Calculator Screen

Overview

Once you have logged in to Rhino Calculator you should see the main editing screen, the elements of which are explained below.



Menu Bar

The menu bar allows you to select the modes and options that you will use when working with Rhino Calculator. The menu options are explained below:

File

The *File* menu is a drop-down menu that contains 4 options:

- **New Plan** – allows you to clear the editing screen and start a new plan.
- **Open Plan** – allows you to open an existing plan that is saved in your user account's storage area.

- **Save Plan** – allows you to save the plan you are currently working on into your user account’s storage area.
- **Save Plan As** – allows you to save the plan you are currently working under a different name in your user account’s storage area.

Move Plan

Clicking the *Move Plan* menu option puts Rhino Calculator into move/select mode. This mode allows you to drag around the editing window using the mouse to change which part of the plan you are looking at, or to zoom in and out of the plan by using the mouse wheel.

In addition to the above, the Move Plan mode also allows you to select objects on the screen (such as walls, load deck panels and infill panels) and either change their properties or remove them from the plan. For more information, refer to the *Fine Tuning Your Plan* section.

Trace Image

The *Trace Image* menu is a drop-down menu that contains 4 options:

- **Choose PDF** – choose a background PDF building plan image to use as an aid to creating your plan layout in Rhino Calculator.
- **Choose JPEG** – choose a background JPEG building plan image to use as an aid to creating your plan layout in Rhino Calculator.
- **Set Scale** – selects image scale mode, which allows you to scale the background image by a known measurement, so that walls can be placed accurately when laying out your plan.
- **Move Image** - selects background image move mode, which allows you to drag the background image into a different position.
- **Rotate** – allows you to rotate the background image by a specified angle.
- **Clear Image** – removes the background image completely.

For more information on using a background image, see the *Using a Background Trace Image* section.

Walls

The *Walls* menu is a drop-down menu that contains 2 options:

- **Add Wall** – selects add wall mode, which allows you to define the walls for your building plan.

- **Set Snap** – opens the Snap Settings dialog box which allows you to select the wall snap settings for your plan.

For more information on defining walls in your plan, see the [Defining Rooms](#) section.

Edit

The [Edit](#) menu is a drop-down menu that contains 3 options:

- **Adjust** – selects adjust mode which allows you to move or rotate any infill panel on the plan.
- **Handrails** – selects handrail mode which allows you to easily add hand rails to multiple panels.
- **Ladders** – selects ladder mode which allows you to easily add ladders to panels.
- **Doors** – selects door mode which allows you to easily add doors to walls.
- **Set Area** – selects area mode which allows you to define coloured areas on the screen as a reference aid.
- **Toggle** – toggles the ability to see what is underneath any infill panels that are part of the plan.

For more information on these options, see the [Fine Tuning Your Plan](#) section.

Undo/Redo

The [Undo](#) menu option allows you undo changes you have made to the plan and return the plan to the state it was in before you made the changes. You can undo multiple changes if you wish. The [Redo](#) button allows you to redo a change that you've undo.

Measure

The [Measure](#) menu option enables a measuring tool which can be used to determine distances depicted on the plan. For more information please see the [Measuring](#) section.

Calculate

The [Calculate](#) menu is a drop-down menu containing 2 options:

- **All** – begins the process of calculating the plan, which will populate the plan with the required Rhino Deck components. Before you use the Calculate > All option you must define at least one enclosed set of walls.
- **Infill Only** – recalculates just the infill panels on the plan, the deck panel arrangement will not be changed. This is useful if you make manual alterations to your plan and then wish the calculator to calculate a new infill panel layout.

Parts

The *Parts* menu option allows you to generate a parts list based on the current plan layout. For further information please see the *Generating a Parts List* section.

Settings

The Settings menu option opens the Plan Settings dialog box which allows you to change general plan settings. For further information please see the *Set Up Your Plan* section.

Account

The *Account* menu is a drop-down menu that contains 3 options:

- **Prices** – allows you to define custom price lists which are used in conjunction with the Parts menu option. For further information please see the *Generating a Parts List* section.
- **Styles** – allows you to define custom styles which are used in conjunction with the Parts menu option. For further information please see the *Generating a Parts List* section.
- **Settings** – allows you to update settings related to your user account, such as your email address.
- **Log Out** – logs the current user out of Rhino Calculator.

Editing Area

The editing area of the screen consists of a large gridded area. You can move around this area by selecting the *Move Plan* menu option and then dragging around it with the mouse. You can also zoom in or out when in this mode by using the mouse wheel.

Each square on the grid represents 100mm² in the real world.

Status Bar

The status bar is at the bottom of the browser window and displays useful information depending on which mode you are currently in. For example, in the Walls mode, the left of the status bar shows your next step to create a wall, and the right of the status bar shows the current world X and Y co-ordinates.

Defining a Plan - Walkthrough

The following sections in this document will take you through the process of defining a plan. The process of defining a plan is as follows:

1. Set up the plan
2. Choose, scale and position a background building plan image (if required).
3. Define walls
4. Calculate the plan
5. Fine tuning

Before you start you should ensure that you are comfortable with the use of the Move Plan mode on the menu – you will need to use this extensively to move around the plan and to zoom in to and out of different areas.

Set Up Your Plan

Before you start, it is a good idea to first ensure that the plan is set up correctly.

Click the *Settings* button on the menu bar. The *Plan Settings* dialog box will appear:

Plan Settings

Walls

Minimum gap between panels and walls: 100 mm

Default doorway width: 762 mm

Double wall distance: 175 mm

Wall Angles

Use the checkbox below to restrict wall angles to multiples of 15 degrees. This setting can help improve accuracy when placing walls.

Limit wall angles

Panels

Default panel height above floor: 1 m

Snap distance when moving panels: 250 mm

Interim build

Panel Gaps

Use infill panels to cover gaps larger than:

50mm 100mm

Infill Panels

Use large infill panels

Trace Image Settings

If you are having difficulty loading a large trace image, use the slider below to lower the rendering quality and then try to load the image again.

PDF rendering quality: 3

OK Cancel

The settings in each section are explained below.

Walls Section

Minimum gap between panels and walls

This setting allows you to specify how close to room walls you want Rhino Calculator to allow placement of Rhino components. By default, it is set to allow Rhino components to be placed no less than 100mm from the walls. This can be adjusted from 0 (no gap at all) to a 200mm gap.

Default doorway width

To allow easier placement of doorways, Rhino Calculator allows you to specify a default doorway width. Use the slider to change the setting (the default for new plans is 762mm (2.5 feet)).

Double wall distance

This setting allows you to specify how far apart double walls should be defined.

Panels Section

Default panel height above floor

By default, Rhino Calculator will place panels at 1 metre height when calculating. You can use this slider to specify an alternative default height between 0.5 metres and 4 metres. The system will not allow you to specify a height that cannot be achieved using Rhino components.

Snap distance when moving panels

When moving deck panels using the *Adjust* menu, panels will automatically snap onto their nearest neighbour. This setting determines how close a panel needs to be from another panel for the snap to take effect.

Interim build

This check box will double the number of deck panels when calculating the parts list, to allow for an interim build height.

Infill Panels Section

Use large infill panels

By default, Rhino Calculator will only attempt to use the small infill panels when calculating the plan. By using this option, the calculator will also use large infill panels when calculating the plan.

Wall Angles Section

Limit Wall Angles

When checked, this setting prevents walls from being placed at any angle other than one that is a multiple of 15 degrees, e.g. 0, 15, 30, 45, 90, 105 etc.

This setting can help improve accuracy when placing walls, especially when using a lower zoom level.

Panel Gaps Section

50mm/100mm

This setting determines the minimum size of gaps that the calculator will attempt to cover with infill panels when calculating the plan.

Trace Image Settings Section

PDF Rendering Quality

When opening a background trace PDF, Rhino Calculator will attempt to automatically set the rendering quality to an appropriate level based on the complexity of the PDF. This is done because some PDFs can contain a very large amount of detail, and this can cause problems for the browser to render it if the quality level is set too high.

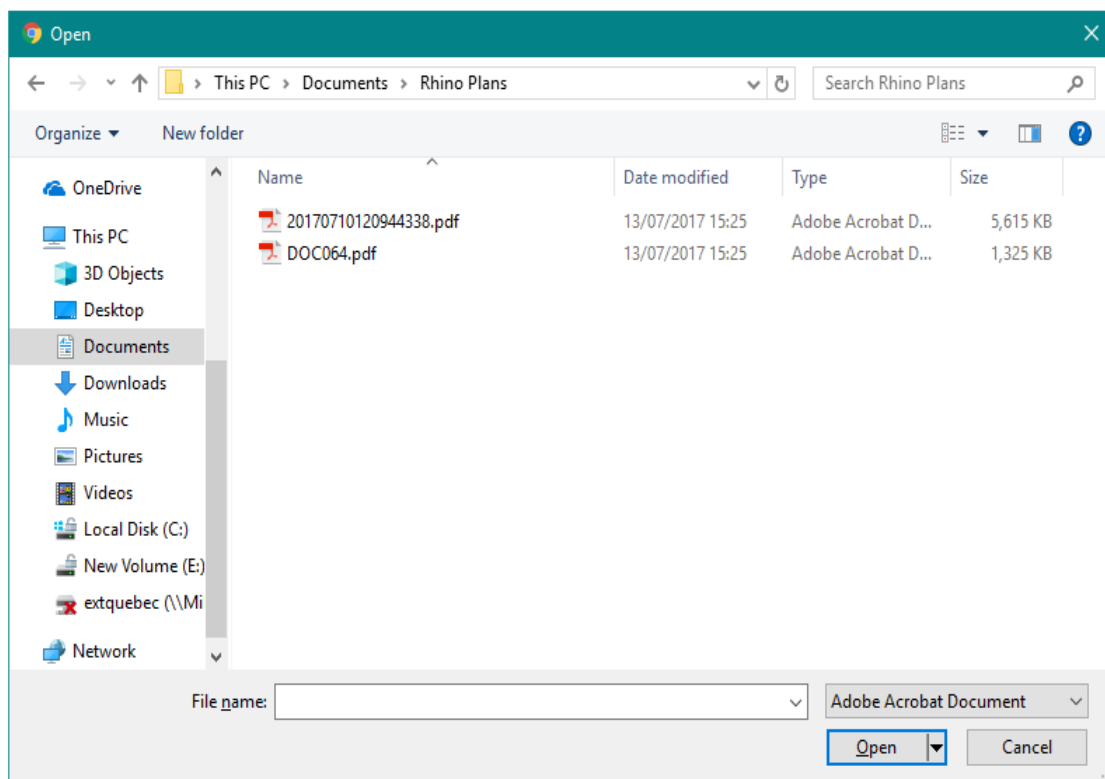
Although Rhino Calculator will attempt to set the quality automatically, if you still encounter problems you can change the PDF rendering quality setting here and try to open the PDF again.

Using a Background Trace Image

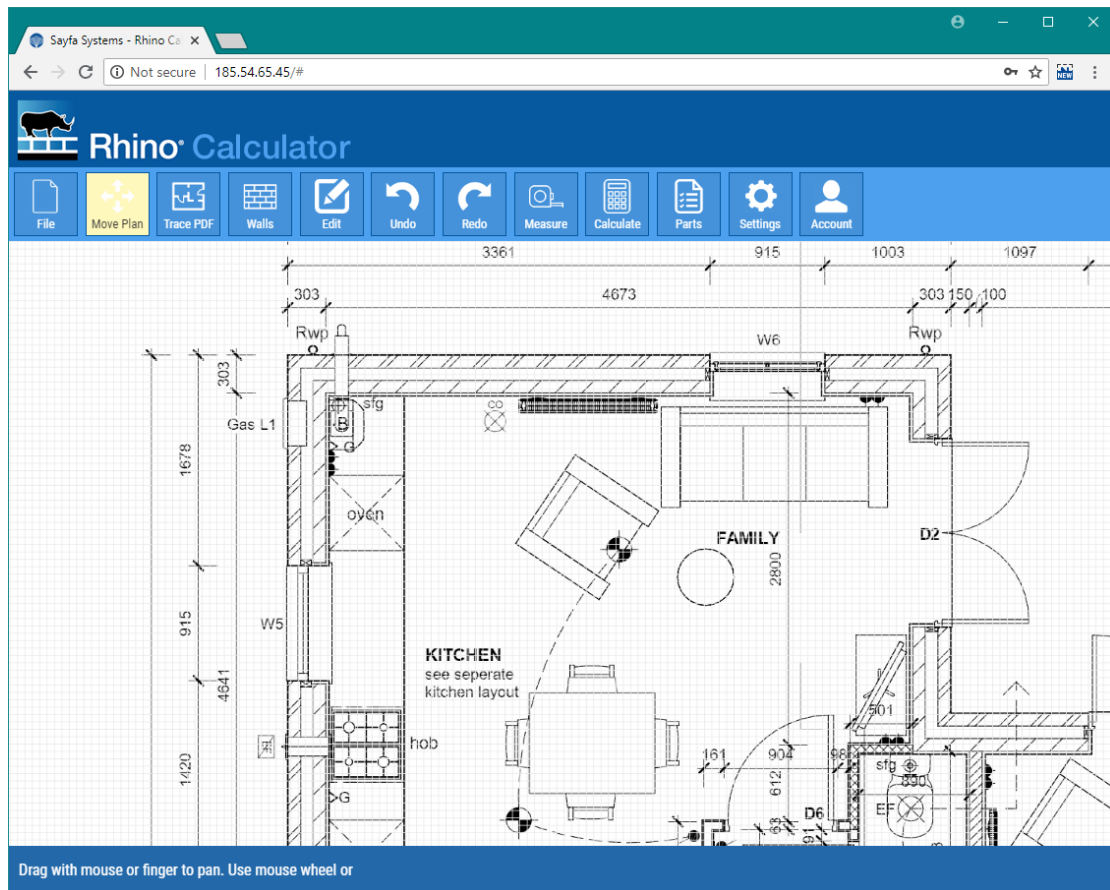
Rhino Calculator allows you to choose a PDF or JPEG building plan to use as an aid to laying out your Rhino Calculator plan.

Choose an Image

To choose a background image, click the *Trace Image* menu and then click either the *Choose PDF* button or the *Choose JPEG* button from the drop-down menu. A file dialog box will appear:



Choose the background image you require and click the Open button. The image will then be rendered on the editing area (you may need to use the Move Plan button on the menu and drag/zoom the plan to be able to see it).



If you are using a PDF background image and you encounter issues loading the image, try altering the PDF rendering quality as described in the [Set Up Your Plan](#) section.

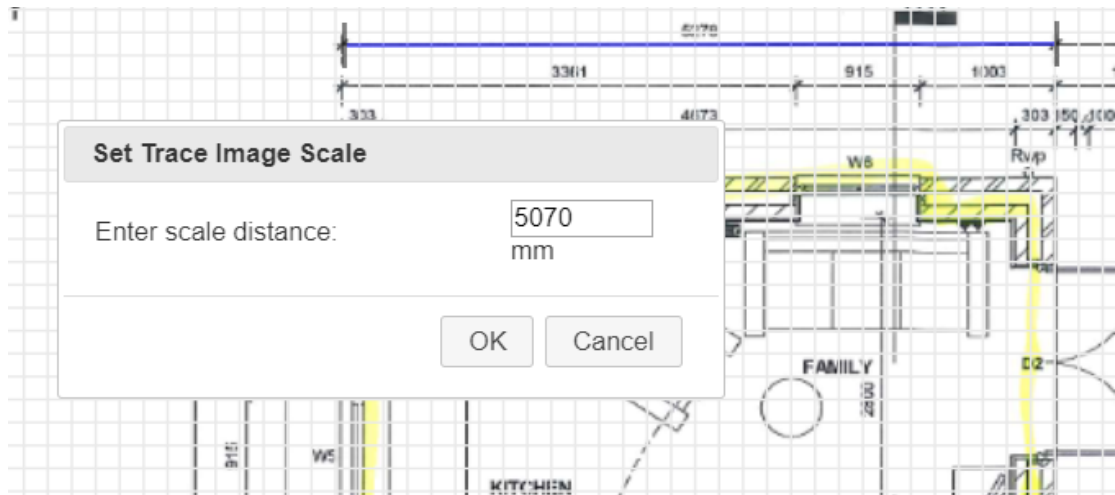
Set the Background Image Scale

When the background image is first loaded, it won't be scaled correctly. Rhino Calculator allows you to scale the background image so that measurements on the image match the Rhino Calculator editor scale.

To do this, click the [Trace Image](#) menu on the menu bar and choose [Set Scale](#).

To scale the image, we will specify a distance on the plan where we know what the scale is (for example a measurement displayed on the image). Hold down the mouse button at the start of the distance and then drag to the end of the distance (you should see a guide on screen to help you).

Once you let go of the mouse button, a dialog box will appear asking you to specify the scale of the distance you just measured:



Enter the scale for the distance you measured and click the *OK* button. The background image will then scale appropriately.

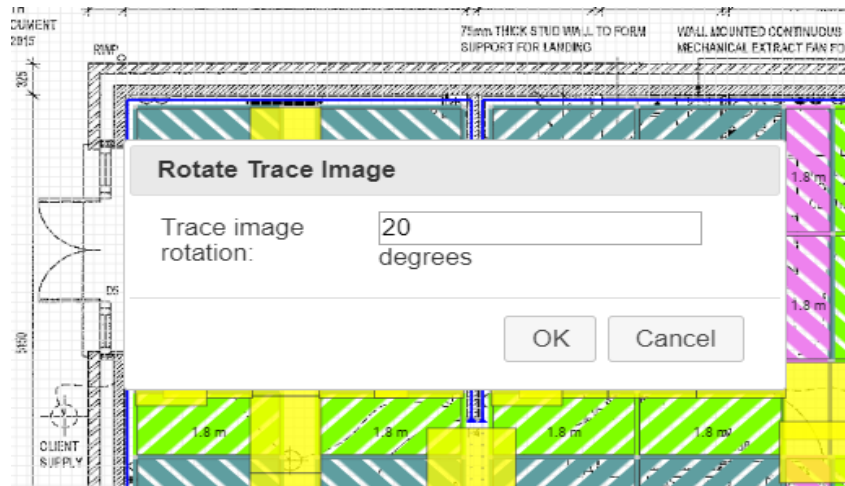
Moving the Background Image

Once you have scaled the background image, you may find that it is no longer in the ideal place on your plan. Rhino Calculator allows you to move the image wherever you want on your plan. To do this, click the *Trace Image* menu and choose *Move Image*. You can then drag the trace image to where you want it to be on the plan.

Rotating the Background Image

Sometimes background images may not be exactly aligned as required. Rhino Calculator's calculations will be more accurate when most of the walls are placed vertically and horizontally. To help with this, it is possible to rotate the background image.

To do this, click the Trace Image menu and choose Rotate. A new window will appear:



Enter the number of degrees to rotate the background image and click the OK button. Fractions of degrees are permitted.

Clearing a Background Image

If you decide that you don't want the background image, click [Clear Image](#) from the [Trace Image](#) menu – the background image will then be removed from the plan.

Defining Rooms

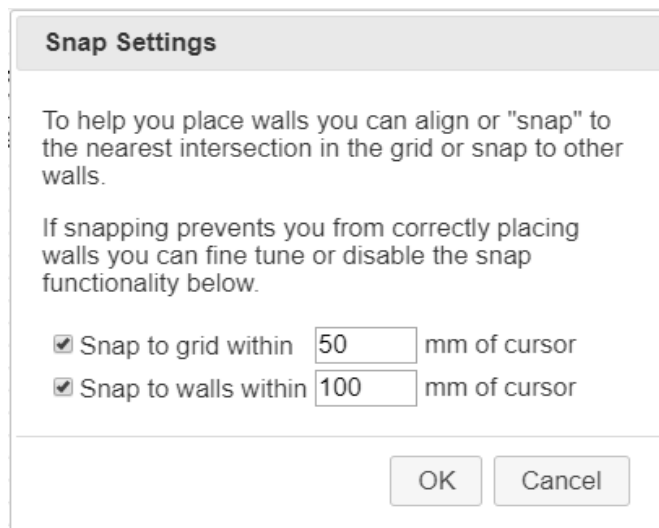
The main part of defining a plan is defining the plan's rooms by specifying the walls of each room.

IMPORTANT: Remember, you must define the **interior** edge of each room, not the exterior edge or anything else!

Before you begin defining walls, you need to set appropriate snap settings.

Snap Settings

To specify the wall snap settings, click the *Walls* menu and choose *Set Snap*. The following dialog box will appear:



The dialog box titled "Snap Settings" contains the following text and controls:

To help you place walls you can align or "snap" to the nearest intersection in the grid or snap to other walls.

If snapping prevents you from correctly placing walls you can fine tune or disable the snap functionality below.

Snap to grid within mm of cursor

Snap to walls within mm of cursor

At the bottom right are two buttons: "OK" and "Cancel".

Snapping makes it easier to place walls by automatically aligning (or "snapping") the line to either the nearest grid intersection or in alignment to another wall you have already defined.

Snap to grid

When snap to grid is turned on it ensures that any line will start and finish at a grid intersection. This doesn't necessarily correspond to the visible grid on the editing area – you can fine tune this setting to snap in smaller amounts for greater accuracy.

Snap to walls

When snap to walls is turned on, the system will attempt to join the wall you are defining to another nearby wall. Use the setting here to determine how close you need to be to another wall for it to take effect.

Click OK when you have finished specifying the snap settings.

Your First Wall

You are now ready to define your first wall. Click the *Walls* menu and choose *Add Wall*.

As you move your mouse pointer around the editing area you will notice a green cross either on or near your mouse pointer. This cross represents the closest position to your mouse pointer that walls will be placed based on your current snap settings.

Now move the mouse so that the green cross is placed where you want the wall to start (make sure it is on the **interior** edge of a room). You should see a red cross appear where you clicked, and a blue line will then appear from that point to the current green cross position. Click again where you want the wall to end, and the line will be added to the plan.

You will then notice that another red cross has appeared – the system has automatically assumed that you want to define a further wall starting at the finishing point of the wall you just defined. Keep going until you have defined a complete room. Once you have returned to the start point the system will stop automatically adding walls – congratulations, you just defined your first room!

If at any point you instead would prefer to define a wall elsewhere, click the right mouse button, which will cancel the wall currently being defined. You can then click a start point somewhere else. You can go back and add in any missing walls at any point, as long as they connect to other walls to form a complete room circuit.

IMPORTANT: Make sure that you define a complete circuit of walls for a room – if you leave any gaps the calculator will not be able to calculate the room accurately. Each wall must start and finish at another wall.

As you define the walls on your plan you will see them appear either red or blue. Walls that are not joined to another wall at both ends are shown in red. Walls that are joined to other walls at each end are shown in blue.

This enables you to easily see if any of your walls need attention prior to calculating your plan. For the calculation to work correctly all walls should be blue – i.e. joined to another

wall at both ends. If you have any red walls the calculation may not be possible, or you may not get the results that you are expecting.

Moving around the plan whilst defining walls

Usually, to move around the plan you must be in the Move Plan mode. However, whilst you are in Walls mode you can slowly move around the plan in one of two ways:

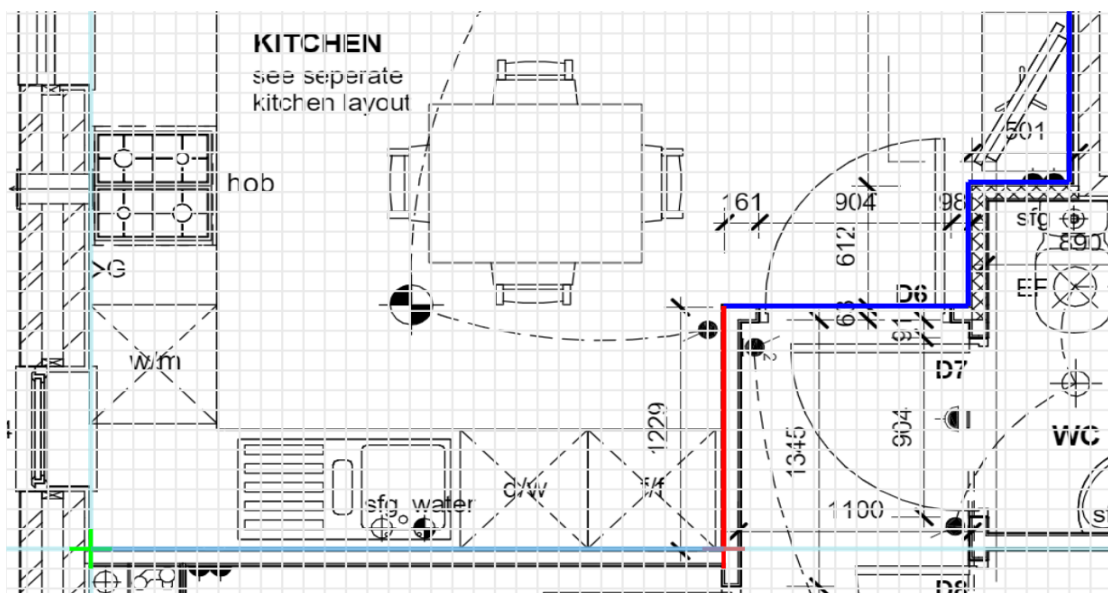
1. By moving the mouse cursor near to the edge of the editing area. The plan will then scroll in that direction. This enables you to zoom in for greater accuracy but still be able to put the walls where you want them.
2. By using the arrow keys on the keyboard.

Improving Wall Placement Accuracy

When placing large numbers of vertical or horizontal walls, it is easy to accidentally place walls at a slight angle. This may introduce problems when trying to join to other walls or cause other unintended consequences. To help prevent this, there is a setting called *Limit Wall Angles* on the *Settings* menu, which when turned on will only allow you to place walls at angles which are a multiple of 15 degrees. This makes placing vertical and horizontal walls much easier.

Some Helpful Guides

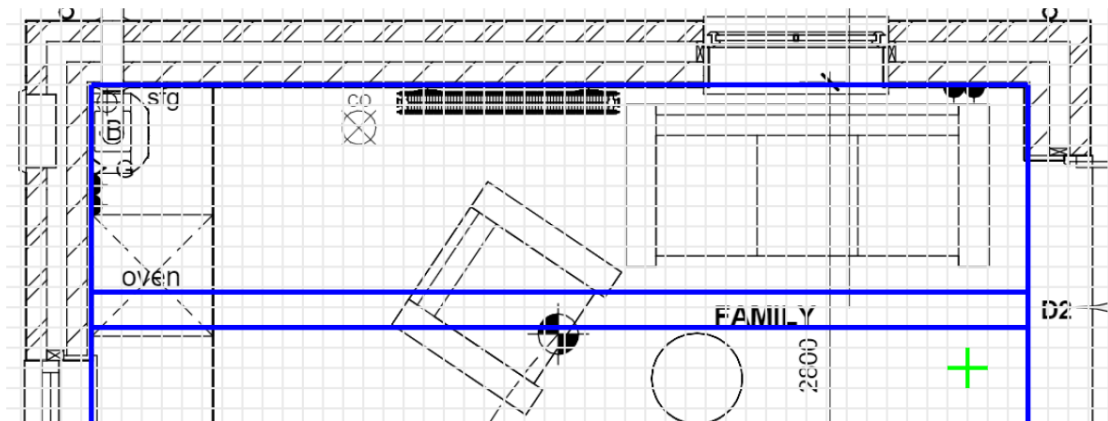
Whilst you are defining walls, you may notice some light blue lines appear on the screen. These are guides – and they tell you that your current cursor position is aligned with the start or end of another wall. This allows you to accurately place walls that align with other walls even when you cannot see them:



Double Walls

To speed up wall definition, Rhino Calculator allows you to define parallel walls in a single action. To do this, hold down the CTRL key, and then draw a line through the middle of the area where you would like the double wall to be placed either side of.

The distance between the walls is controlled by the *Double wall distance* setting on the *Settings* window, for more information please see the *Set Up Your Plan* section.



Multiple Rooms

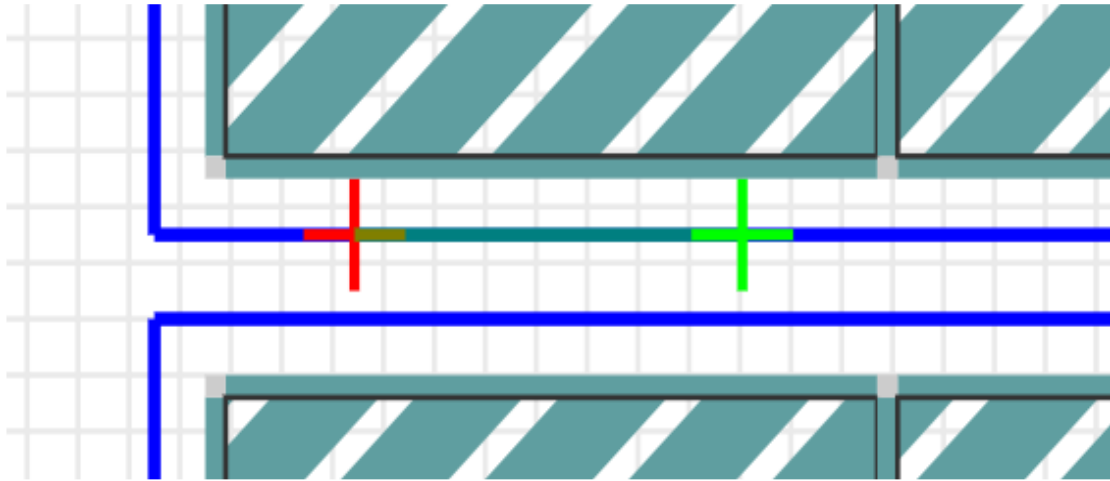
You can define more than one circuit of walls – this enables you to lay out multiple rooms. Each room will then be calculated independently of one another.

Adding Doorways

It is possible to specify the location of doorways in walls. This will allow the calculator to place infill panels through doorways as appropriate.

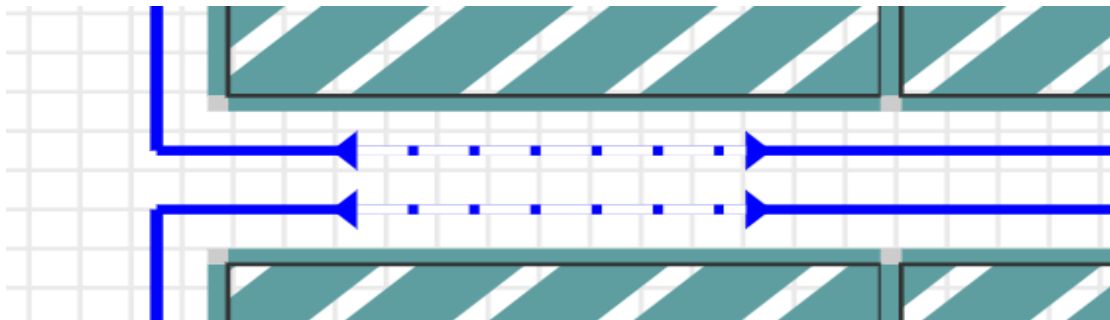
To specify the location of a door, first click the *Edit* menu and choose *Doors*. You should find that as you hover the mouse over any of the walls on your plan you will see a blue cross.

First, you must choose your door start point – to do this click on the wall where you would like the doorway to start. The blue cross will turn red.



The system will automatically set the width of your doorway based on the default doorway width setting in the plan settings. If you would like to override this and choose a different doorway width, hold down the CTRL key on the keyboard. You can then move the mouse pointer to where you would like the doorway to finish.

Once you are happy with the doorway width, click once more and the doorway will be added. If there is a parallel wall within the *Double wall distance* setting then a second doorway will also be placed in the parallel wall.



Calculating the Plan

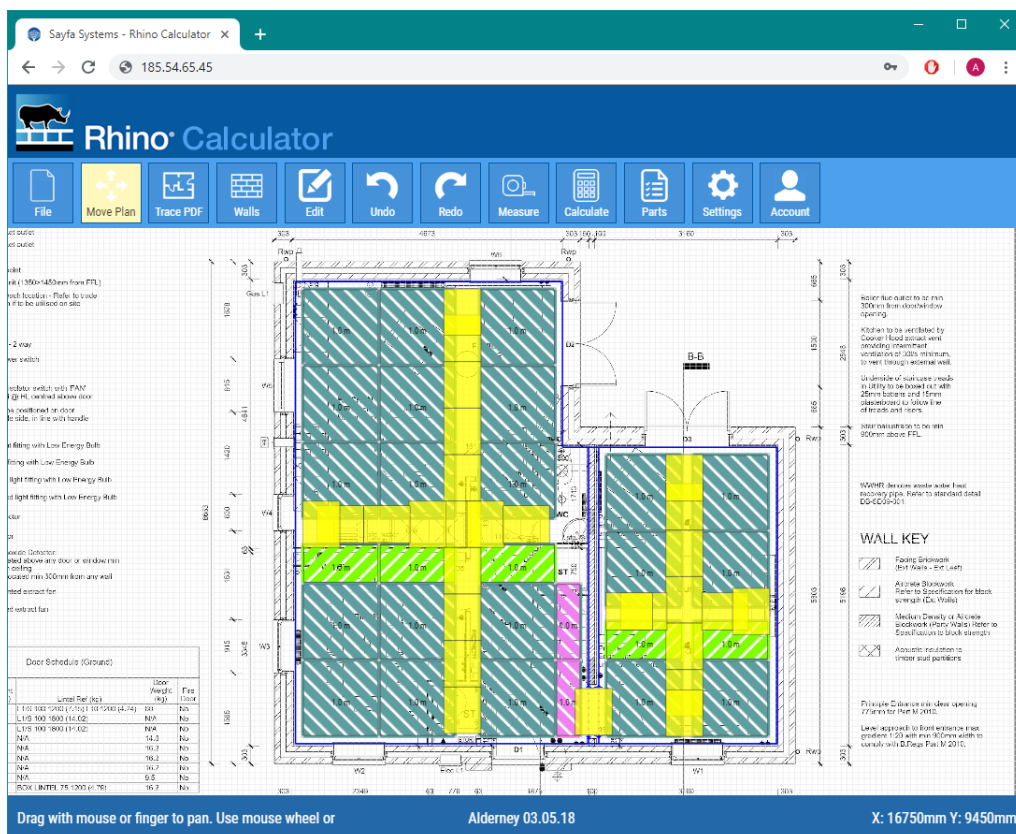
Once you have defined all the walls for your plan, choose *All* from the *Calculate* menu to calculate the plan.

Rhino Calculator will attempt to determine the optimal arrangement of load deck panels and infill panels required for your building plan.

Please be aware that if you are trying to calculate a very large plan it may take a considerable amount of time, so we recommend splitting large floorplans over multiple Rhino Calculator plans.

You can recalculate at any time if you make any changes to the wall arrangements or plan settings, however you will lose any adjustments you have made to deck panels or infill panels.

Once the plan has been calculated, if you make any changes to the deck panel layout and wish to recalculate only the infill panels, choose *Infill Only* from the *Calculate* menu. The infill panel layout will be recalculated but the deck panel layout will be untouched.

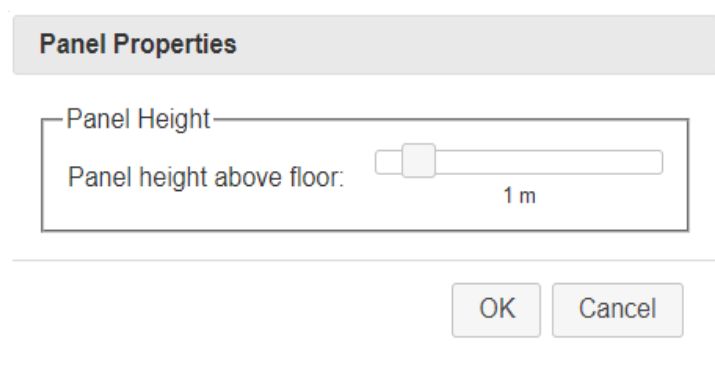


Fine Tuning Your Plan

Whilst the Rhino Calculator will make its best attempt to determine the Rhino component layout for your plan, you may want to adjust it after calculation.

Specifying Panel Properties

By default, each load deck panel is placed at a height of 1 metre. To change this height, first make sure you are in the move/select mode by clicking the [Move Plan](#) button on the menu bar. Then right click on the panel you wish to change and choose [Panel Properties](#). The Panel Properties dialog box will appear:



You can specify the panel height (the system will allow you to specify heights achievable using Rhino Deck components up to a maximum of 4 metres). When you are finished specifying the panel properties, click OK.

You can also change the height of panels by selecting the panels you want to change and then using the – and + keys on the keyboard.

Removing Panels, Infill Panels, Cross Braces or Walls

To remove a panel, infill panel, cross brace or wall, ensure you are in the [Move Plan](#) mode and then right click on the relevant object and choose the [Remove](#) option.

Selecting Multiple Objects

Multiple objects of the same type may be selected so that you can change all of their properties at once or remove them all at once. To do this, make sure you are in the [Move Plan](#) mode, hold down the CTRL key and click on each object you want to change. Each object will turn light blue when selected.

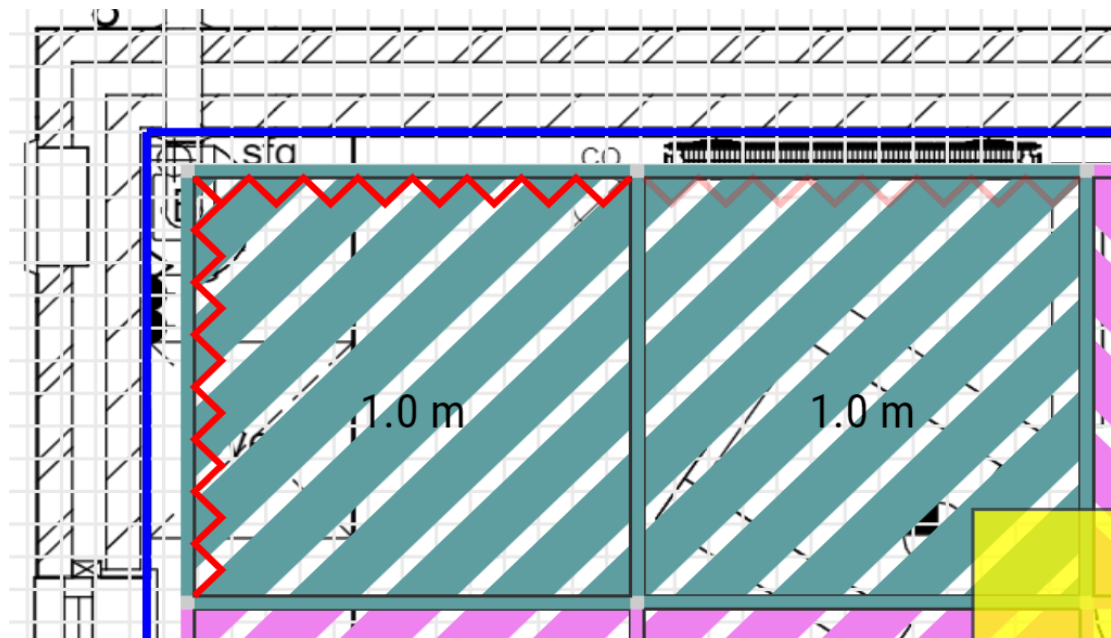
You can then right click on any of the selected objects and either change their properties or remove them.

For example, to remove multiple panels, hold down CTRL and click on each one in turn. Then right click on any panel and choose Remove. All of the selected panels will be removed.

Adding Handrails

There is an easy method to add handrails to multiple panels at once. To do this, click the *Edit* menu and choose *Handrails*.

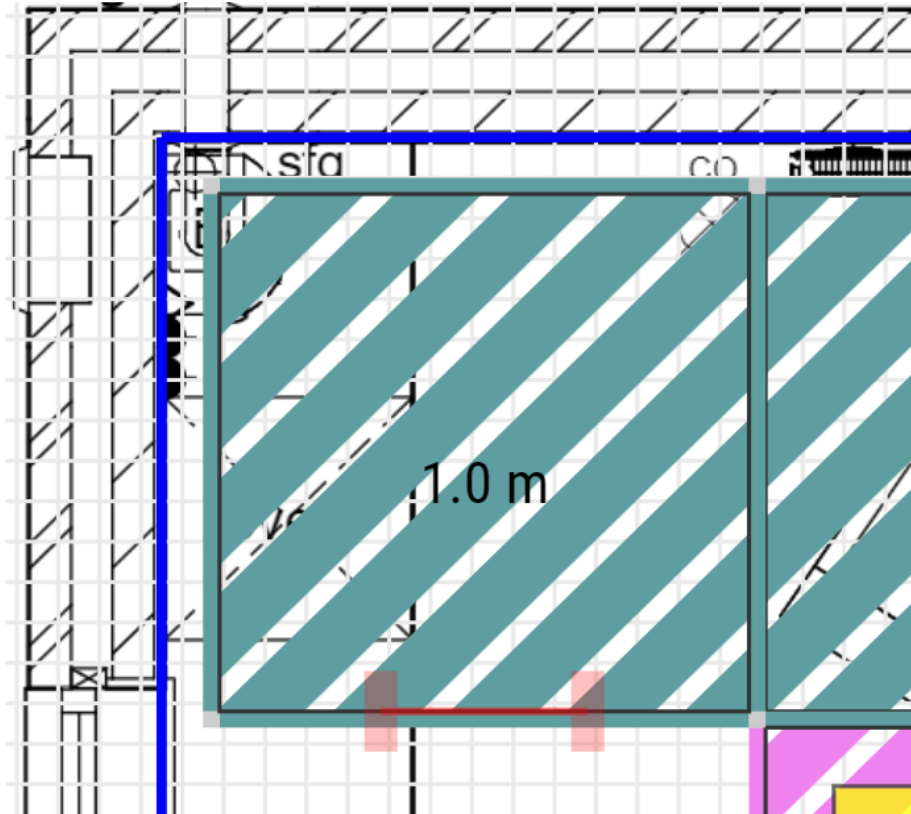
Then, if you hover the mouse near the edge of a panel you will see a faint guide showing you where the handrail position will go. Click to add the handrail in that position. By using this function, you can add handrails to multiple panels very quickly:



Adding Ladders

There is also an easy method to add ladders to panels. To do this, click the *Edit* menu and choose *Ladders*.

Then, if you hover the mouse near the edge of a panel you will see a faint ladder shape showing you where the ladder will be placed. The system will only let you place ladders where they are valid. Click to add the ladder in that position. By using this function, you can add ladders to multiple panels very quickly.



Adjusting Deck Panels

Although the Rhino Calculator attempts to calculate the optimal placement of deck panels, you may sometimes wish to make alterations to them or add additional panels. To do this, click the *Edit* menu and choose *Adjust*.

Move a deck panel

Once you are in Adjust mode, you can move deck panels simply by dragging. As you drag a deck panel near to another deck panel, it will 'snap' together to ensure that the two panels share legs. The distance required for the snap to take effect can be controlled by the *Snap distance when moving panels setting* on the *Settings* window. Care should be taken when moving panels to ensure that the panel that you are moving is snapped to the intended panels. For finer accuracy you may wish to reduce the snap distance setting.

Rotate a deck panel

In Adjust mode, if you hover over a deck panel you will notice a small square appear in one corner. This is the rotation handle – dragging this handle will rotate the deck panel instead of moving it.

Copy a deck panel

In Adjust mode you can also duplicate an existing deck panel.

To copy a deck panel, first make sure you are in Adjust mode. Then, right click on the panel and choose *Copy*. Then, right click again where you would like the new panel to be placed and choose *Paste*.

Adding new deck panels

Adjust mode also gives you the ability to add new deck panels.

To add a new deck panel, first make sure you are in Adjust mode. Then, right click where you would like the panel and choose either *New Small Panel*, *New Medium Panel* or *New Large Panel*. You can then drag the new panel into the desired position.

Adjusting Infill Panels

Sometimes infill panels may require further fine-tuning following calculation. To do this, click the *Edit* menu and choose *Adjust*.

Move an infill panel

Once you are in Adjust mode, you can move infill panels simply by dragging.

Rotate an infill panel

In Adjust mode, if you hover over an infill panel you will notice a small square appear in one corner. This is the rotation handle – dragging this handle will rotate the infill panel instead of moving it.

Copy an infill panel

In Adjust mode you can also duplicate an existing infill panel.

To copy an infill panel, first make sure you are in Adjust mode. Then, right click on the panel and choose *Copy*. Then, right click again where you would like the new panel to be placed and choose *Paste*.

Adding new infill panels

Adjust mode also gives you the ability to add new infill panels.

To add a new infill panel, first make sure you are in Adjust mode. Then, right click where you would like the panel and choose either *New Large Infill Panel* or *New Small Infill Panel*.

Adjusting Cross Braces

Rhino Calculator will attempt to automatically add additional cross braces to scaffold areas where deck panels otherwise do not fit. Sometimes cross braces may require further fine-tuning following calculation. To do this, click the *Edit* menu and choose *Adjust*.

Move a cross brace

Once you are in Adjust mode, you can move cross braces simply by dragging. The ends of the cross braces will automatically snap together with both other cross braces and deck panel legs.

Rotate a cross brace

To rotate a cross brace, drag one of its two legs. The orientation of the cross brace will then change.

Change the size of an extendable cross brace

Extendable cross braces are coloured blue and can be extended or reduced in size between 640mm and 1280mm. To do this drag the end of the cross brace to the desired length.

Adding new cross braces

Adjust mode also gives you the ability to add new cross braces.

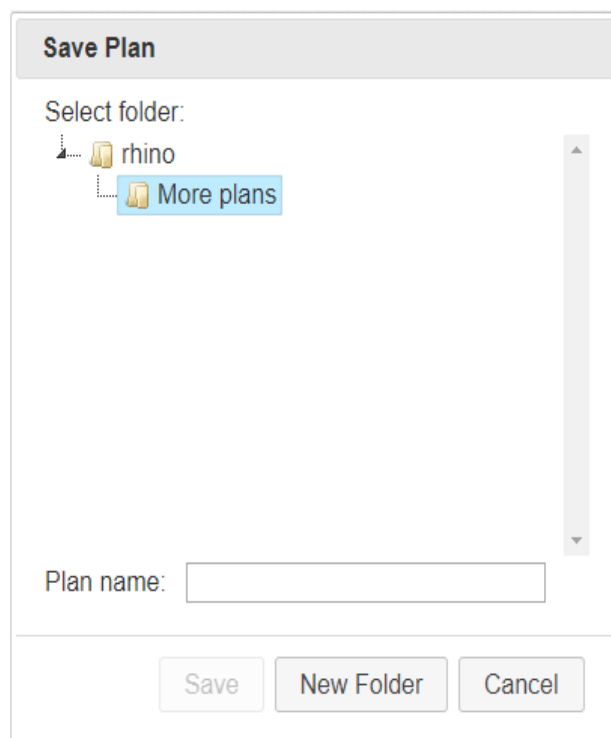
To add a new cross brace, first make sure you are in Adjust mode. Then, right click where you would like the panel and choose one of *New 400 cross brace*, *New 640 Cross Brace*, *New 1280 Cross Brace* or *New Extendable Cross Brace*.

Opening and Saving Plans

Plans can be saved to and opened from your own secure area.

Saving a plan

To save a plan, click the *File* menu and choose *Save Plan*. If the plan has been saved before then the plan will be saved over the original. Otherwise the *Save Plan* window will appear.



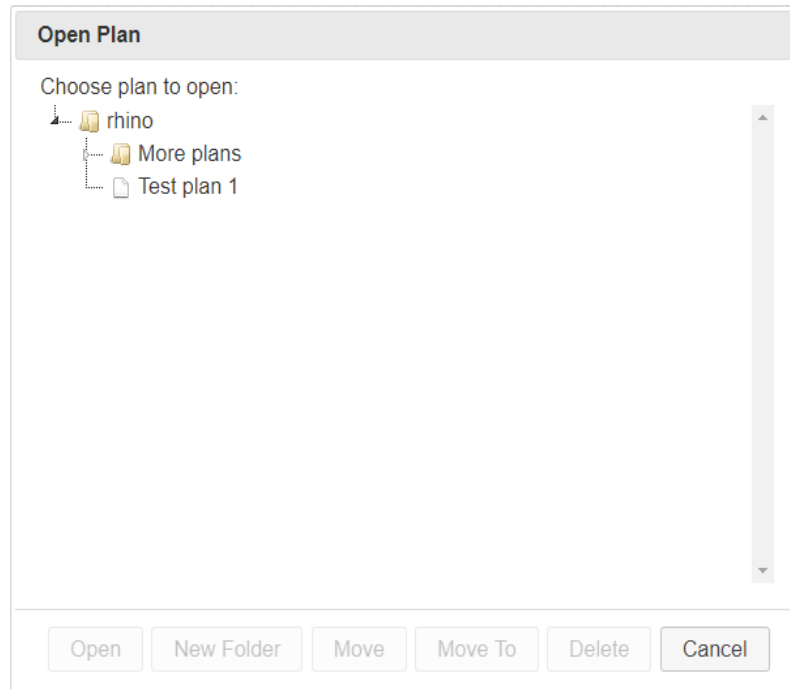
Using this window, you can give the plan a name and also choose a folder for it to be stored in. You can also create new folders using the *New Folder* button. Once you have done so you can click the *Save* button to save the plan.

Saving a plan under a new name

If you wish to save an existing plan under a new name, click the *File* menu and choose *Save As*. The *Save Plan* window will appear allowing you to choose a new name and/or save the plan in another folder.

Opening a plan

To open a previously saved plan, click the *File* menu and choose *Open Plan*. The Open Plan window will appear:



This window shows you all the folders and plans in your secure storage area. To open a plan, click the plan name and choose the *Open* button.

File Management

You can also perform file management from this window:

- To create a new folder, select the folder in which you would like to create the folder and then click the *New Folder* button.
- To move a plan to a different folder, select the plan name and then click the *Move* button. Then select the folder that you wish to move the plan to and click the *Move To* button.
- To delete a plan, select the plan name and click the *Delete* button. You will be asked to confirm the deletion.

Defining Areas

Coloured areas may be defined in the Rhino Calculator as a visible aid to layout creation. They have no effect on the definition of walls or plan calculation – they are merely a visual aid.

Area Definition

Click the Edit menu and choose Set Area. You can then define a closed area using straight lines (in a similar way to wall definition), and the area will be coloured when you complete the circuit.

Changing Area Colour

To change the colour of an existing area, ensure you are in the *Move Plan* mode, right click the area you wish to change and choose *Change Colour*. You can then select a new colour from the colour swatch.

Removing an Area

To remove an area, ensure you are in the *Move Plan* mode, right click the area you wish to remove and choose *Remove Area*.

Measuring

The Rhino Calculator measuring tool allows you to measure any distance on the plan in any direction. To use it, click the *Measure* button on the menu bar to switch to measuring mode.

Once you are in measuring mode, clicking and dragging with the mouse will calculate any distance in real time. Letting go of the mouse will leave the measurement on screen until you click somewhere else on screen.

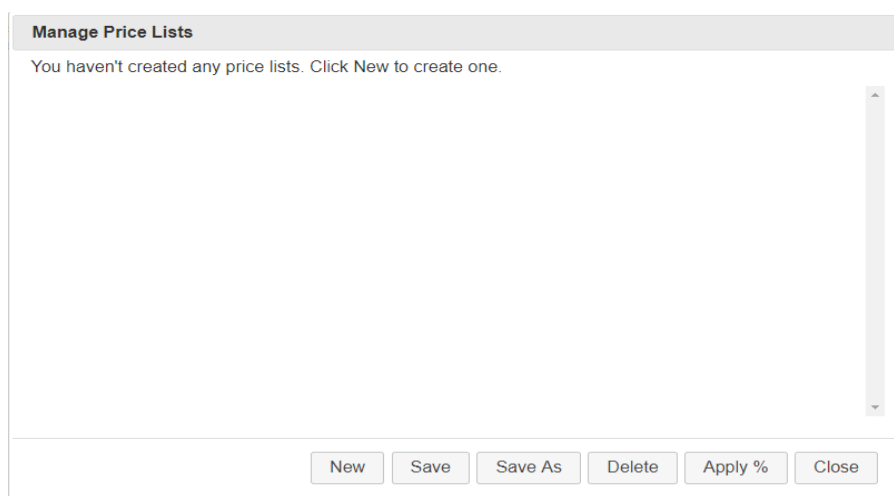
The measurement will even stay on screen if you switch to other modes. To remove it, switch back to measurement mode and then click somewhere on the screen.

Generating Parts Lists

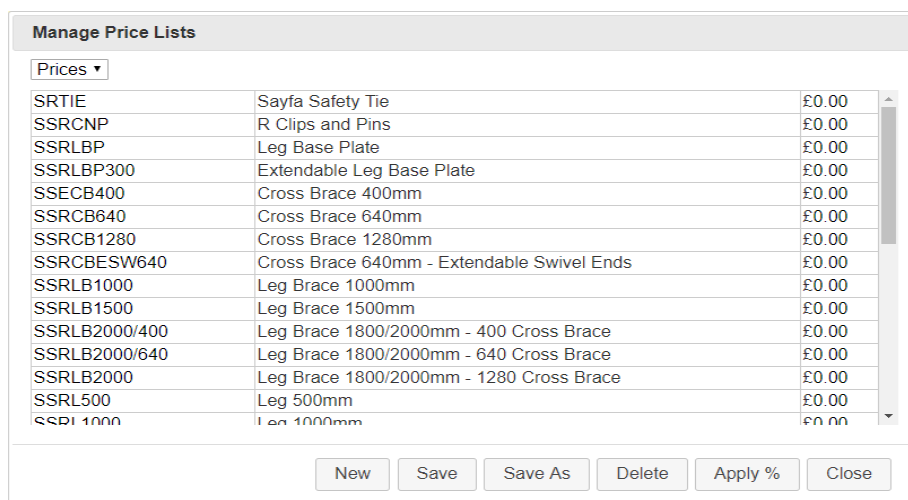
Once you have completed your plan Rhino Calculator may be used to calculate all the component parts required to build the plan and generate a parts list with pricing information.

Defining Parts Prices

Before you can generate a parts list you first need to define one or more price lists. To do this, click the *Account* menu and select *Prices*. The following window will appear:



Click the *New* button and then enter a name for your price list. Clicking the *OK* button will generate a list of every component in the RhinoDeck system with a zero price as follows:



Set Prices and Product Codes

You can now set the price for each of the RhinoDeck components. If you wish, you can also change the standard RhinoDeck product codes to your own codes by changing the code in the left-hand column.

Saving Price List Changes

Once you have completed making your changes to the price list, remember to click the *Save* button to save your changes. You can also use Save As to save the price list under a different name. All the price lists that you have created can be selected from the drop-down menu at the top-left of the window.

Deleting a Price List

To delete a price list, first select it from the menu on the top-left of the window. Then click the *Delete* button.

Applying a Percentage

It is possible to apply a percentage change to all the prices in a price list. To do this, click the *Apply %* button, and then enter either a negative number for a percentage price discount, or a positive number for a percentage price increase.

Defining Styles

Rhino Calculator's styles functionality enables you to apply your own logo and colours to parts lists when generating. If you don't specify a style of your own, then the default built-in style will be used instead.

To define a style, click the [Account](#) menu and select [Styles](#). The following window will appear:

Manage Styles

Edit Existing Style

Choose Style: Choose style ▾

Style Name:

Header Logo

Logo Image: Upload Logo

Logo Type: BMP ▾

Header Colours

Header Text Colour:

Header Background Colour:

New Save Delete Close

Creating a New Style

Enter the name for your style in the [Style Name](#) box. Then, click the [Upload Logo](#) button and choose your logo image. You can use images in JPG, PNG, GIF, SVG or BMP formats. A preview of the logo image will be displayed in the window once it has been uploaded.

Next, set the colour for the header text and the background colour for the header in the [Header Colours](#) section. Then click [Save](#) to save the style.

Finally, click [Close](#) to close the [Manage Styles](#) window.

Editing an Existing Style

To edit an existing style, click the [Account](#) menu and select [Styles](#). Then choose the style to edit from the [Choose Style](#) drop-down. Once you have finished making your changes, click [Save](#) to save them, and [Close](#) to close the [Manage Styles](#) window.

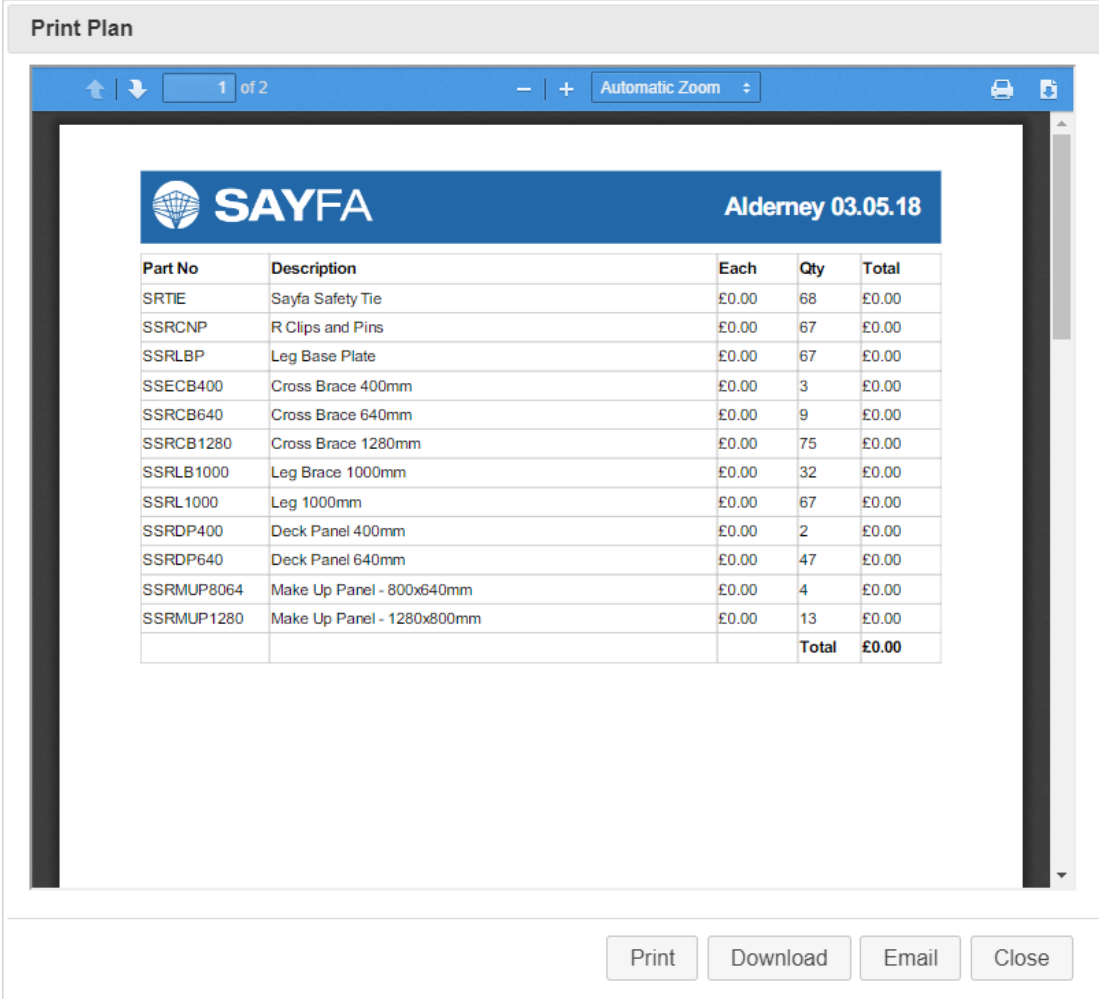
Generating the Parts List

To generate the parts list, click the *Parts* button on the main menu.

If you haven't yet created a price list, you will be prompted to do so before you can generate the parts list.

Choose the price list you wish to apply to the parts list and click *OK*. You will then be prompted to choose a style if one or more styles are available.

The parts list will then be generated and will appear on the screen as follows:



The screenshot shows a window titled "Print Plan" with a blue header bar containing navigation icons, a page indicator "1 of 2", zoom controls, and a printer icon. The main content area displays a table with the SAYFA logo and the project name "Alderney 03.05.18". The table lists various parts with their descriptions, quantities, and prices. At the bottom of the window, there are buttons for "Print", "Download", "Email", and "Close".

Part No	Description	Each	Qty	Total
SRTE	Sayfa Safety Tie	£0.00	68	£0.00
SSRCNP	R Clips and Pins	£0.00	67	£0.00
SSRLBP	Leg Base Plate	£0.00	67	£0.00
SSECB400	Cross Brace 400mm	£0.00	3	£0.00
SSRCB640	Cross Brace 640mm	£0.00	9	£0.00
SSRCB1280	Cross Brace 1280mm	£0.00	75	£0.00
SSRLB1000	Leg Brace 1000mm	£0.00	32	£0.00
SSRL1000	Leg 1000mm	£0.00	67	£0.00
SSRDP400	Deck Panel 400mm	£0.00	2	£0.00
SSRDP640	Deck Panel 640mm	£0.00	47	£0.00
SSRMUP8064	Make Up Panel - 800x640mm	£0.00	4	£0.00
SSRMUP1280	Make Up Panel - 1280x800mm	£0.00	13	£0.00
			Total	£0.00

The parts list is generated as a PDF document with 2 pages. Page 1 is the parts list itself along with quantities and prices. The second page shows the plan with a summary of the parts required.

Printing the Parts List

To print the parts list, click the *Print* button. Printout quality is largely dependent on the web browser being used, so if you experience difficulties with the print function then we

recommend that you download the PDF document instead (see below) and print from within the Adobe PDF viewer directly.

[Download the Parts List](#)

To download the parts list, click the [Download](#) button and then choose where you wish to download it.

[Email the Parts List](#)

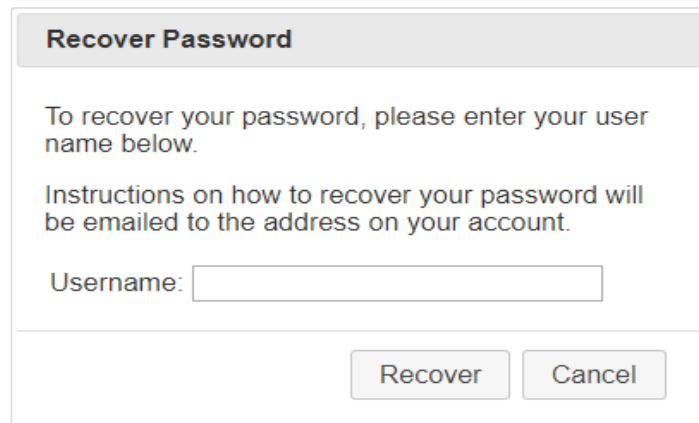
To email the parts list to an email address as an attachment, click the [Email](#) button and then enter the email address that you would like to send it to.

Resetting Your Password

Occasionally, you might want to reset your password for security reasons, or perhaps you've simply forgotten it.

Request a New Password

You can request a new password by clicking the [Forgot Password?](#) link on the login screen. A new window will appear:



The image shows a dialog box titled "Recover Password". Inside the dialog, there is a message: "To recover your password, please enter your user name below." followed by "Instructions on how to recover your password will be emailed to the address on your account." Below this text is a text input field labeled "Username:". At the bottom of the dialog, there are two buttons: "Recover" and "Cancel".

Enter your username into the box and click the [Recover](#) button. If you entered the correct username, an email will be sent to the email address on your account with instructions on how to reset your password.