FURNWARE Aero - User Guide.



Introduction

Overview

- The 'FURNWARE Aero Package' from Solid Setup Plus adds the FURNWARE Aero drawers to Cabinet Vision.
- It provides drilling for the cabinet ends and the drawer parts for CNC output.
- It also adds 3d graphics for the drawer sides, runners, and brackets etc.
- All material descriptions contain the FURNWARE order number after the # symbol and in the Vendor SKU.
- White, colour
- 84mm, 117mm, 164mm and 199mm high drawers.
- Depths are 350-400-450-500
- Rollouts (inner Drawers) for utilizing metal fronts, Melamine ROF fronts and SLAB colour fronts in both Horizontal or Vertical Grain are provided.

Included in This Package

Drawer Guide Schedules:

- "FURNWARE Aero Wte 35Kg" Aero White with 35Kg guides.

Drawer Guide Materials:

Colour	Weight	Profile	350	400	450	500
White	35	84	350	400	450	500
White	35	117	350	400	450	500
White	35	164	350	400	450	500
White	35	199	350	400	450	500

User Created Standards

The Following UCS's are provided (ensure they are in this order once installed):

- { DRAWS } -- FURNWARE Aero Attributes
- { DRAWS } -- FURNWARE Aero Parts

Drawer Boxes

The Following drawer box constructions are provided:

- FURNWARE Aero Drawer
- FURNWARE Aero Inner Metal (Metal Front Rollout with brackets and Cross Gallery)
- FURNWARE Aero Inner ROF (Wooden ROF Front Rollout)
- FURNWARE Aero Inner SLAB HG (Wooden SLAB Front Rollout with Horizontal Grain)
- FURNWARE Aero Inner SLAB VG (Wooden SLAB Front Rollout with Vertical Grain)

Room Attributes

The Following system attributes are provided:

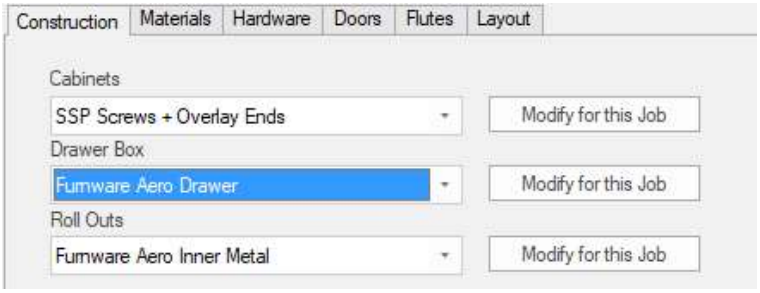
- S_Room_DFront_Screwon "Draw Front Screwon"

Aero Usage

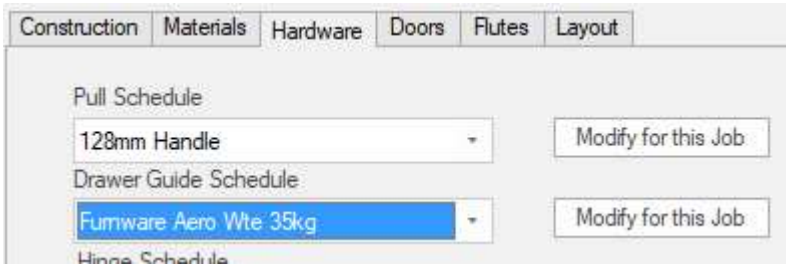
Menu Selections for a Job or Room.

To use the Aero drawers in a job you must make the following selections:

- In the job or room properties the Cabinet Construction tab should have the **Drawer Box** set to "**FURNWARE Aero Drawer**" and the **Roll Outs** set to a "**FURNWARE Aero Inner…**" as shown here:



- In the Hardware tab, choose one of the FURNWARE Aero guide schedules:



- In the Materials tab, you can choose any of the Drawer Box or Roll Out schedules you have set up for other drawers as long as the materials selected are suitable for FURNWARE Aero.

Menu Selections for a Cabinet.

To use Aero drawers in a cabinet when Aero has **not** been selected in the room or job the Construction, Materials and Hardware tabs for the cabinet in question **must** be set to the same selections as above.

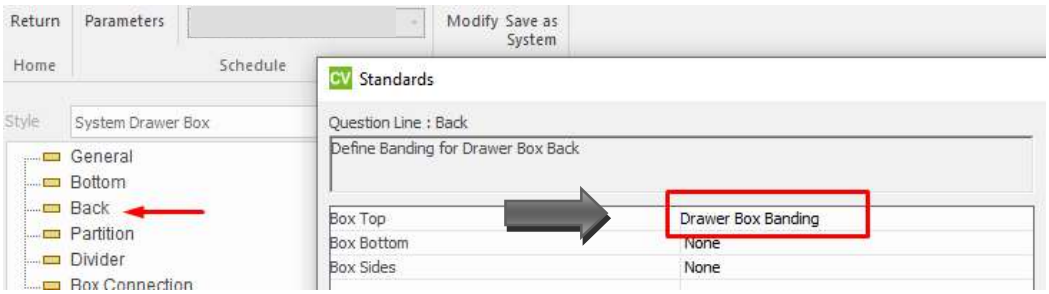
Menu Selections for one Drawer/Rollout.

To use Aero drawers for one drawer/rollout when Aero has **not** been selected in the cabinet, or you wish to use a Aero drawer/rollout from a different drawer guide schedule.

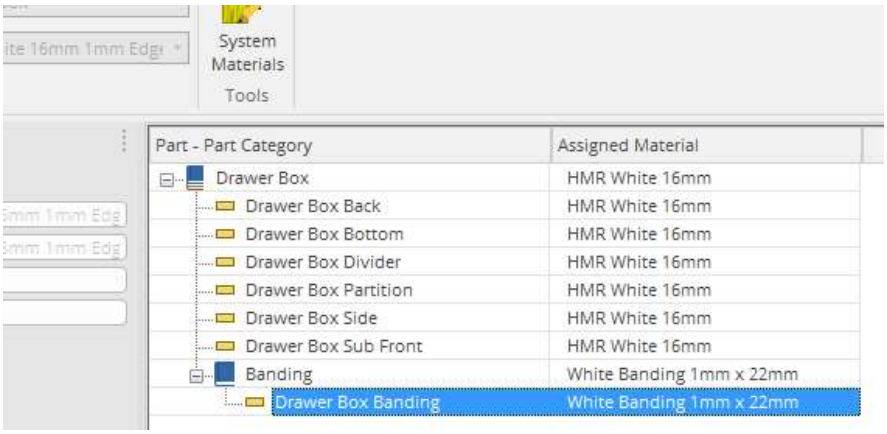
- Take the cabinet into the cabinet editor, click on the section view, and double click on the drawer/rollout to bring up its Properties menu, and then select the Drawer Box or Rollout Tray tab.
- The Construction tab should be set to "**FURNWARE Aero Drawer**" or a "**FURNWARE Aero inner…**" if it is not already.
- To Change to a different guide type press the "**change**" button shown here:
- Use the "Search" tab and a keyword such as "Aero" to quickly find the guide you want rather than paging through materials..

Drawer Box Backs Banding Setup

- For the drawer and roll out backs to be banded correctly please run the Construction wizards for the backs in the "**FURNWARE Aero Drawer**" and all the "**FURNWARE Aero inner…**" construction methods:



- For the drawer box backs and roll out backs to be banded correctly the selected material schedule for "Drawer Box" and "Roll Out" **must** have a suitable edge banding material selected and the Aero drawer box and rollout construction methods must have banding applied to the top of the backs.



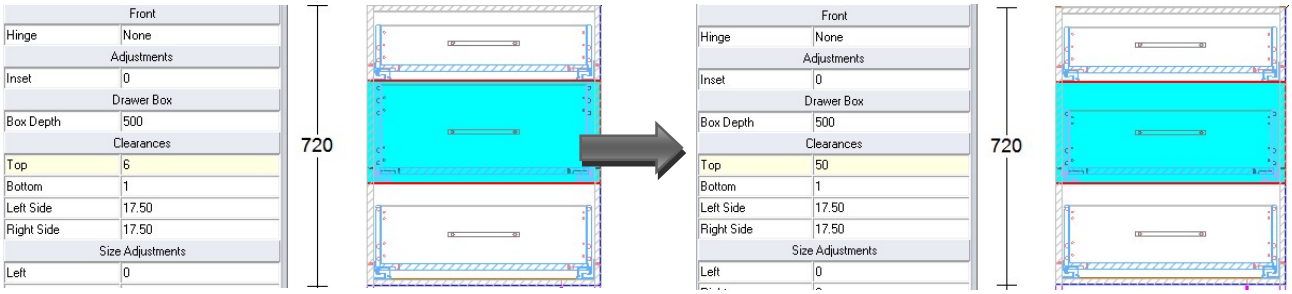
- The material schedules can be edited from the splash screen under the "Main" tab

Drawer Boxes

Drawer Box Height Control

When a drawer is first added to a cabinet, Cabinet Vision will always choose the tallest drawer that will fit from the drawer guide schedule, based on the available space.

- The space is determined by the distance between any cabinet or internal parts directly behind the drawer front, minus the drawer guide material top and bottom clearances.
- To select a smaller drawer height, click on the drawer front in the section view.
- Increase the "Top Clearance" in the sidebar until the drawer height you require appears, like this:

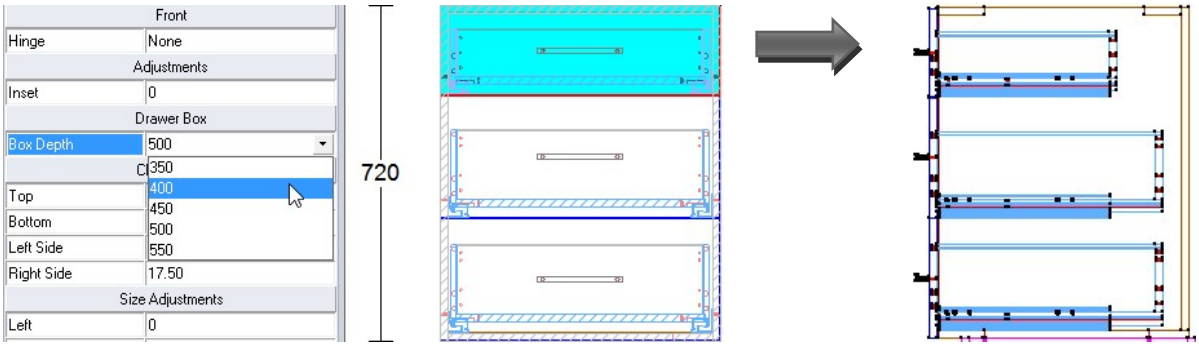


- **NOTE:** *If you are using a drawer leveling UCS (which moves the top drawer boxes up to match the bottom lip reference of the bottom drawer), this may cause those drawer boxes to interfere with an object above them, whether it be the next drawer front, the cabinets top or top stretcher or a drawer stretcher or some other part which would normally not be in the way.*
- *This occurs because the leveling UCS is applied **after** the drawer height selection has been calculated.*
- *To prevent this always check every drawer in the cabinet editor, (preferably with the graphics turned on so you can clearly see any part interference), and reduce the drawer box height using the "Top Clearance" as described above.*

Drawer Box Depth Control

When a drawer is first added to a cabinet, Cabinet Vision will always choose the deepest drawer that will fit from the drawer guide schedule, based on the available space.

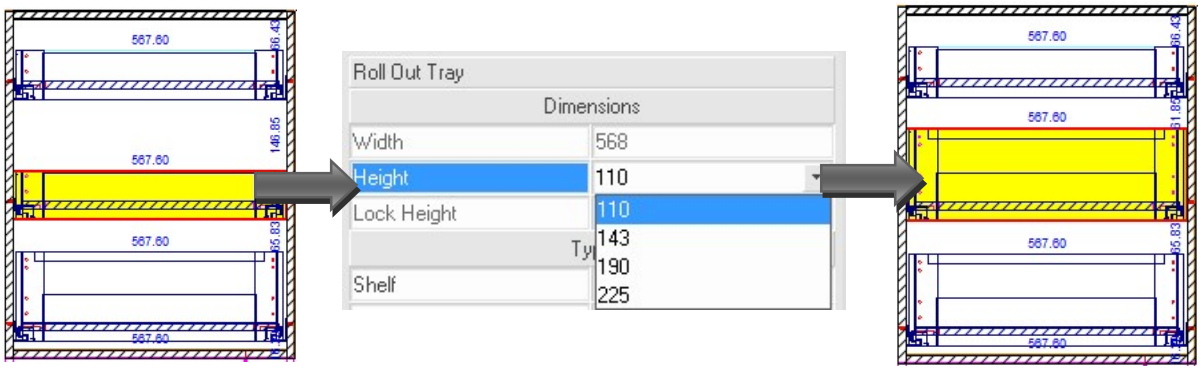
- To select a smaller drawer box depth, click on the drawer front in the section view.
- Choose the "Box Depth" from the dropdown list in the sidebar as shown here:



Rollouts

Rollout Height Control

- To add a rollout in the section interior view of the cabinet editor, add a “Split Horz” and then select it and change it to a “Rollout Tray” in the left sidebar. Or use the “Split Multi Horz” function and choose the “Roll-out Tray” button and then press OK.
- When a rollout is first added to a cabinet, Cabinet Vision will choose the height based on the tallest rollout that will fit from the drawer guide schedule, based on the available space.
- To select a different rollout height, click on the rollout in the section interior view and use the sidebar.
- Choose the height from the dropdown box provided as shown here:



- **NOTE:** *The actual heights of the inner drawer may be slightly more than the above measurements due to the taller front brackets etc. This may cause the inner drawers to interfere with each other or another cabinet part.*
- *To prevent this always check every rollout in the cabinet editor, so you can clearly see any part interference.*
- *The actual overall heights of the rollouts are as follows:*

1. **110** selection (**84mm profile**) actual height with bracket is **110mm**
2. **143** selection (**117mm profile**) actual height with bracket is **143mm**
3. **190** selection (**164mm profile**) actual height with bracket is **192mm**
4. **225** selection (**199mm profile**) actual height with bracket is **225mm**

Rollout Depth Control

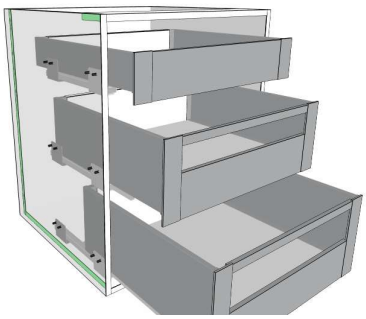
- When a rollout is first added to a cabinet, Cabinet Vision will always choose the deepest rollout that will fit from the drawer guide schedule, based on the available space.
- To select a smaller rollout depth, click on the rollout in the section interior view.
- Increase the negative “**Depth**” adjustment in the sidebar until the size required is selected.

Rollout Setback

- By default we have set all the metal rollouts back by 16mm compared to a drawer.
- ROF or SLAB rollouts are set 21mm back to allow for the front
- **NOTE: The entire rollout including the drilling is moved back, therefore you need to use the SAME mounting holes for rollouts as you do for drawers.**

Rollouts with metal/rail fronts (FURNWARE Aero Inner metal)

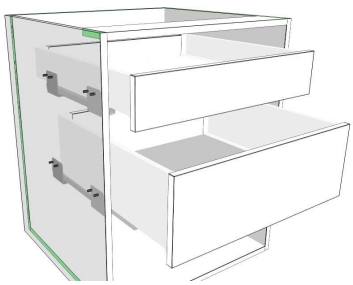
- This Rollout type will use the metal front piece with brackets and gallery rail.



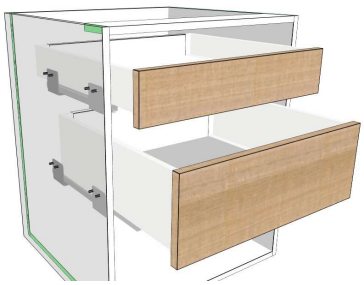
Metal fronts

Rollouts with wooden fronts (FURNWARE Aero Inner ROF / SLAB HG / SLAB VG)

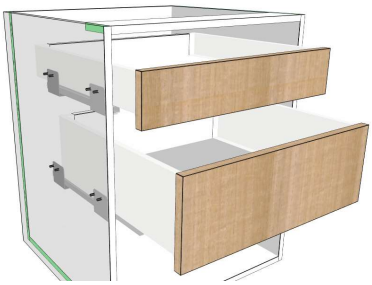
- This Rollout type will not use the metal front piece but will use a Rollout or slab front instead.
- The Rollout front size and banding is set in the Roll Out Wizard – Roll Out Front
- Roll Out Front - Top overhang is -**4mm** (4mm above sides)
- Roll Out Front and Roll Out Guide - The side overhang is **34.5mm** (leaves **3mm gap** between front and end)
- The Bottom overhang is set by the Connection "**ROF_ROBT Furnware Aero**" which sets the overhang to **42mm** below the **TOP FACE** of the bottom (**26mm** below a 16mm bottom)
- You can alter the wizard if you prefer different overhangs.
- The material for the wooden front and its edge banding are set in the **Rollout** Material Schedule.
- The material for the slab front and its edge banding are set in the **Door** Material Schedule.



ROF fronts



SLAB HG Fronts



SLAB VG Fronts

Drawer Fronts Screwon

Room Attribute

- The "Draw Front Screwon" Room attribute will change all the drawer front holes to screw holes.
- Also, Screw front bracket sets will be added to the reports for ordering.

Drilling Setup

UCS Public Variables

There are 10 Public Variables in the "**{ DRAWS } -- FURNWARE Aero Attributes) "** UCS.

- To change these variables go to the Utilities – Edit User Created Standards from the Room Plan or Elevation



Then click on the "**{ DRAWS } -- FURNWARE Aero Attributes) "** UCS.

- On the top, side of the screen you will see the Public Variables list:

Public Variables	
Box Bottom Depth	12mm
Box Bottom DIAM	5mm
Front Knockin Depth	12mm
Front Knockin DIA	10mm
Front Screwon Depth	5mm
Front Screwon DIAM	3mm
Guide Cabinet Depth	12mm
Guide Cabinet DIA	5mm
Box Back Depth	12mm
Box Back DIAM	5mm

Each set of holes has a **diameter (DIAM)** and **depth** variable.

Box Bottom = Holes in the Drawer box or Rollout bottom for the drawer side profiles
Front Knockin = Holes in the Drawer Front for drawer side brackets if Room Attribute "Draw Front Screwon" is False.
Front Screwon = Holes in the Drawer Front for drawer side brackets if Room Attribute "Draw Front Screwon" is True.
Guide Cabinet = Holes in the Cabinet for the Drawer or Rollout Guides.
Box Back = Holes in the Drawer box or Rollout back for the drawer side profiles.

- If your system is set to inches, simply replace the whole value with the imperial measurement instead.
- Eg 3mm might become **1/8**

Note: To turn off any of the holes if not required, set the depth to zero.

Once you have changed these values to your requirements, you can close the UCS editor.

FURNWAREs Drawer Bottom Drilling

- The 1st and 2nd hole are set in the drawer guide materials.
- Do not change these values unless instructed by Solid Setup+ or Furnware.

Vertical position of drawers

We have positioned the Aero drawers 1mm higher than flush as per FURNWAREs recommendation to allow for variances in board thickness. We have achieved this by setting the “Minimum Bottom Clearance” in the drawer guide materials to 1mm instead of 0mm. This was done so that when your carcass material is slightly thicker than the value entered into cabinet vision, the bottom drawer guide position is less likely to interfere with the cabinets deck. If you are using a minipress to drill the drawer fronts you may need to check the fence position. If you do not wish to have this allowance you must change all the drawer guide bottom clearances to 0mm in the material catalog, or if you prefer more tolerance you can increase the value, Be sure to also compensate for any changes on your minipress if required.

Tools Required

- The drill diameters you choose in the UCS (no 1) Public Variables above are all required for this package to work. You must have these tool diameters in your tool catalog and in your machine.

Package Exclusions

Some of the drawer drilling shown in various images contained in this document are not included in the FURNWARE Aero Package, but come from other packages which are sold separately.

Any other items shown in any images such as cabinet screw holes, benchtop brackets, plastic legs etc are also part of our other packages which are sold separately.

See our website for more detailed information on these packages.