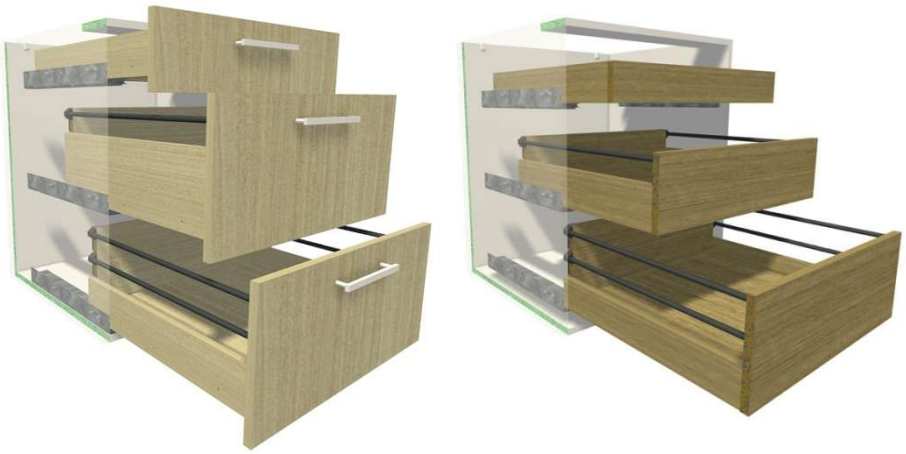
# Blum MOVENTO User Guide.



## Introduction

### Overview

- This package from Solid Setup Plus adds the Blum MOVENTO drawers and Inner drawers (Rollouts), to Cabinet Vision Solid. (Australian sizes only)
- It provides drilling for the drawer box parts, the cabinet ends and the drawer front for CNC output.
- It also adds 3d graphics for the drawer runners, galleries and gallery brackets etc.
- The runners and brackets etc are added as a separate parts and materials for reporting purposes.
- All material descriptions contain the Blum order number after the # symbol.
- 1 or 2 Gallery Rails can be added via attribute for drawers and rollouts.

## Included in This Package

### Drawer Guide Schedules: (TIP-ON Schedules add extra TIP-ON parts for ordering)

- "Blum Movento(AU) 760H Bmn" Movento 40kg with Blumotion (Australian sizes only)
- "Blum Movento(AU) 760H Tip" Movento 40kg with Tipon (Australian sizes only)
- "Blum Movento(AU) 760H Tipon-Bmn" Movento 40kg with Tipon Blumotion(Australian sizes only)
- "Blum Movento(AU) 766H Bmn" Movento 60kg with Blumotion (Australian sizes only)
- "Blum Movento(AU) 766H Tip" Movento 60kg with Tipon (Australian sizes only)
- "Blum Movento(AU) 766H Tipon-Bmn" Movento 60kg with Tipon Blumotion(Australian sizes only)

### Drawer Guide Materials:

Australian Package:

| | BLUMOTION | | TIPON | |
|---|---|---|---|---|
| Depth | 40kg | 60kg | 40kg | 60kg |
| 270 | 760H2700B | | 760H2700T | |
| 300 | 760H3000B | | 760H3000T | |
| 350 | 760H3500B | | 760H3500T | |
| 400 | 760H4000B | | 760H4000T | |
| 450 | 760H4500B | 766H4500B | 760H4500T | 766H4500T |
| 500 | 760H5000B | 766H5000B | 760H5000T | 766H5000T |
| 550 | 760H5500B | 766H5500B | 760H5500T | 766H5500T |
| 600 | | 766H6000B | | 766H6000T |

## User Created Standards

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

- { DRAWS } -- Blum Movento ID's Identifies Movento drawer guide materials.
- { DRAWS } -- Blum Movento Attributes Adds the Attributes to backs.
- { DRAWS } -- Blum Movento Runners Adds the drawer guides and drawer side dado.
- { DRAWS } -- Blum Movento Brackets Adds the drawer locking device and Tipon parts.
- { DRAWS } -- Blum Movento Galleries Adds the galleries and drilling.
- { DRAWS } -- Blum Movento Holes Adjusts the hole sizes.
- { DRAWS } -- Blum Movento Rollout Adjusts the rollout parts.

## Drawer Boxes

The Following drawer box constructions are provided:

**Australian Package:**

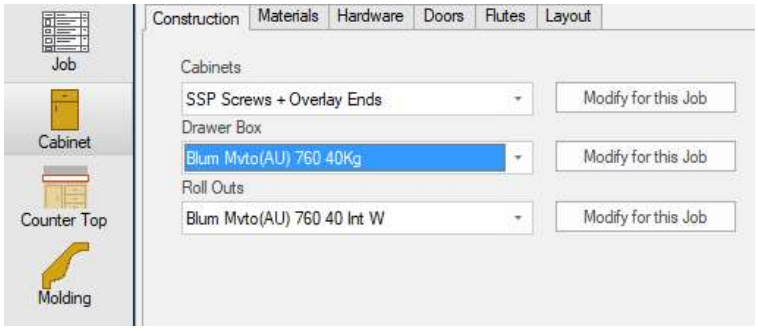
- Blum Mvto(AU) 760 40Kg Drawer Boxes for 40kg sizes(Australian sizes only)
- Blum Mvto(AU) 766 60Kg Drawer Boxes for 60kg sizes(Australian sizes only)
- Blum Mvto(AU) 760 40 Int Inner Drawers (Rollouts) for 40kg sizes(Australian sizes only)
- Blum Mvto(AU) 760 40 Int W Inner Drawers (Rollouts) with extra SLAB front for 40kg sizes(Australian sizes only)
- Blum Mvto(AU) 766 60 Int Inner Drawers (Rollouts) for 60kg sizes(Australian sizes only)
- Blum Mvto(AU) 766 60 Int W Inner Drawers (Rollouts) with extra SLAB front for 60kg sizes(Australian sizes only)

# Movento Usage

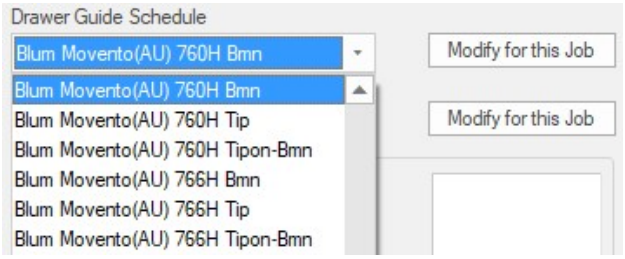
## Menu Selections for a Job or Room.

To use the Movento 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 "**Blum Mvto…**" and the **Roll Outs** set to "**Blum Mvto… Inner**" as shown here:




- In the Hardware tab, choose one of the Blum Movento guide schedules:



- 

- Tipon Schedules will add TIPON kit, Pinion set and linkage to reports for ordering purposes.
- Galleries are activated by attribute on drawers and rollouts as explained later on.
- 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 Blum Movento.

## Menu Selections for a Cabinet.

To use Movento drawers in a cabinet when Movento 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.

- To access those menus for one cabinet, take the cabinet into the cabinet editor, click on the section view, and select the Properties tab to find the menus.

## Menu Selections for one Drawer/Rollout.

To use Movento drawers for one drawer/rollout when Movento has **not** been selected in the cabinet …

- 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 Movento if it is not already.
- To Change to a different guide type press the "**change**" button

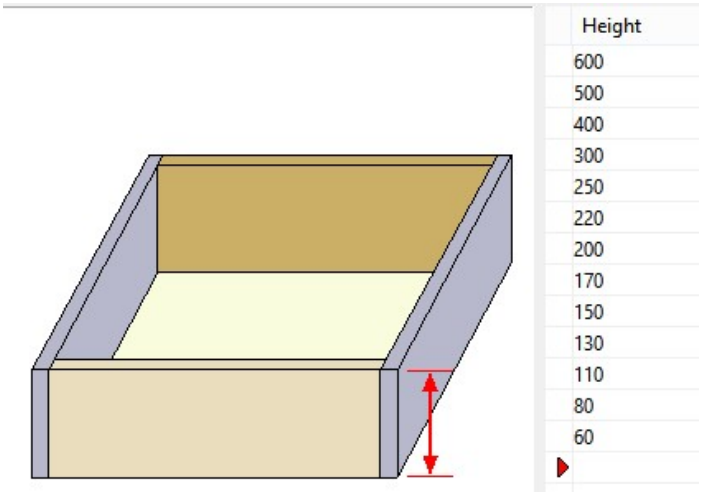
## Drawer Box Banding Setup

- The drawer box parts have been banded with our "Drawer Box Banding" Part
- The Rollout parts have been banded with our "Rollout Banding" Part
- The Extra SLAB front on the "Int W" Rollouts is banded all round with door banding.
- For the drawer box parts to be banded correctly the selected material schedule for "Drawer Box" and "Roll Out" **must** have a suitable edge banding material assigned to those parts.

# Drawer Boxes

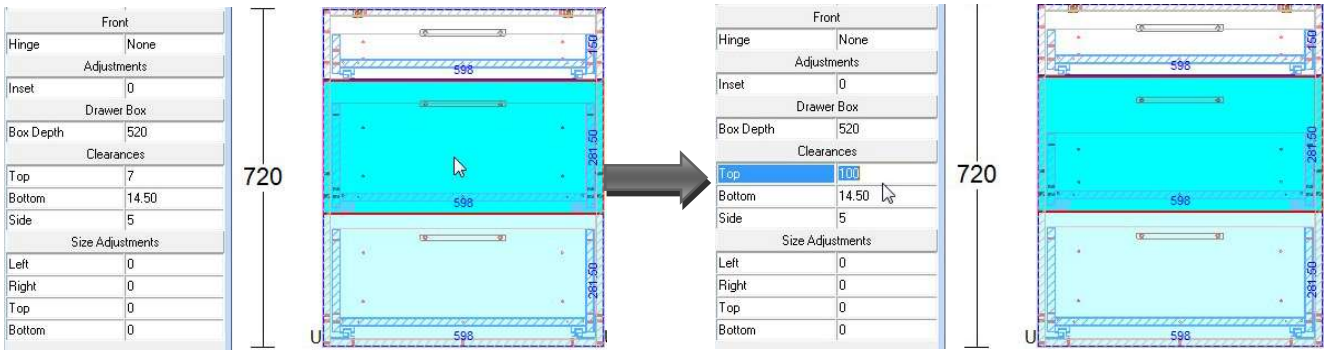
## Drawer Box Height Control

We have set up the following standard heights for Movento:



If you wish to have different standard heights, you can enter your own in the Drawer /Roll Out Wizard for the "Blum Movento" Drawer provided.

- When a drawer is first added to a cabinet, Cabinet Vision will always choose the tallest drawer that will fit from the drawer construction method, 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:

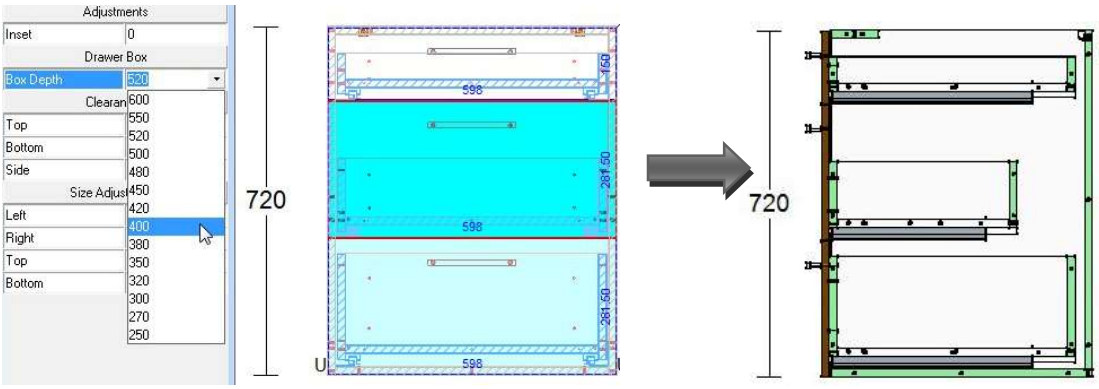



- **NOTE:** *If you are using a drawer leveling UCS (which moves the top drawer boxes up to match the bottom lip reference of the bottom drawer), this may cause those drawer boxes to interfere with an object above them, whether it be the next drawer front, the cabinets top or top stretcher or a drawer 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.

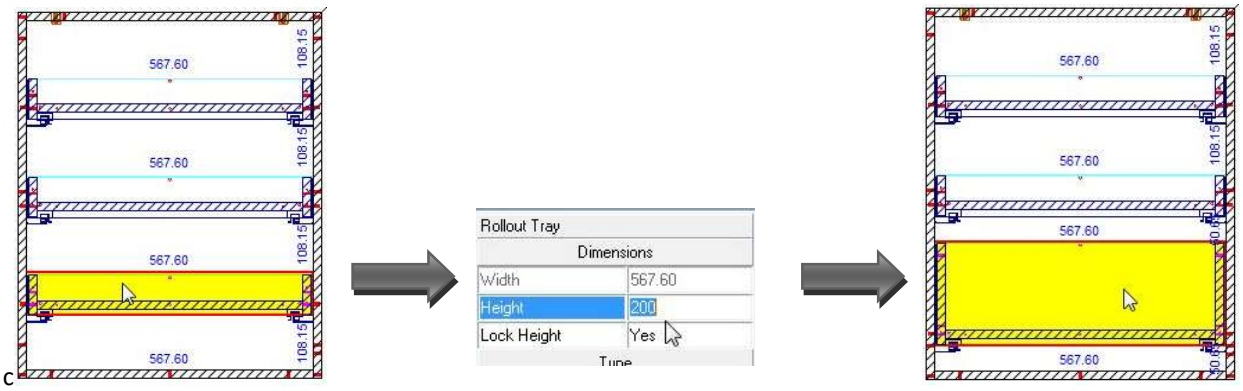
- To select a smaller drawer box depth, click on the drawer front in the section view.
- Choose the "Box Depth" from the dropdown list in the sidebar as shown here:



# Rollouts

## Rollout Height Control

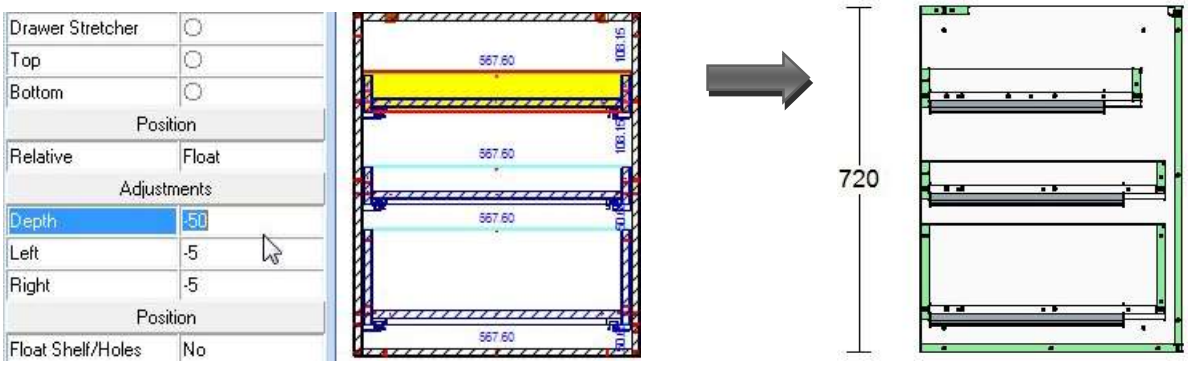
- To add a rollout in the section interior view of the cabinet editor, add a “Split Horz” and then select it and change it to a “Rollout Tray” in the left sidebar. Or use the “Split Multi Horz” function and choose the “Roll-out Tray” button and then press OK.
- When a rollout is first added to a cabinet, Cabinet Vision will set its height to the default height entered in the rollout wizard which we have set to (110mm) for Movento.
- To select a different rollout height, click on the rollout in the section interior view and use the sidebar.




- **NOTE:** *The actual heights of the inner drawer are 14.5mm more than the displayed measurements due to the drawer guide underneath. 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, (preferably with the graphics turned on so you can clearly see any part interference with the drawer guide), and reduce the rollout box height using the method described above or move the rollout up or down .*

## Rollout Depth Control

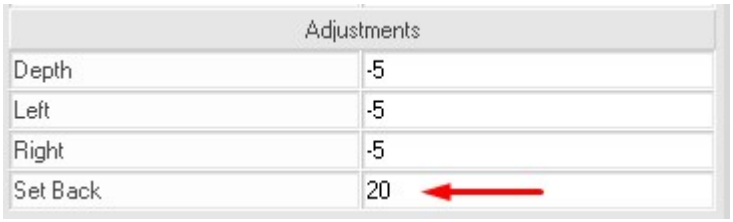
- When a rollout is first added to a cabinet, Cabinet Vision will always choose the deepest rollout that will fit from the drawer guide schedule, based on the available space.
- To select a smaller rollout depth, click on the rollout in the section interior view.
- Increase the negative “Depth” adjustment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



## Rollout Setback

- By default the initial rollout setback is set to 2mm.
- For the "Int W" rollouts with a n extra SLAB front the setback is 20mm to allow for a SLAB front up to 19mm thick. If your SLAB material is more than 19mm please increase the setback to compensate.

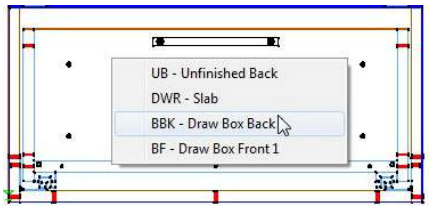
- To adjust the setback of each rollout individually, use the "**Set Back**" setting under "**Adjustments**", in the section view:




# Gallery Rails

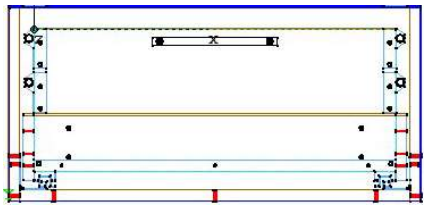
**The Blum Movento Galleries can be added to any drawer or rollout that is 120mm or higher.**
**(Please Check with your supplier if the Gallery Rails are available in your region)**

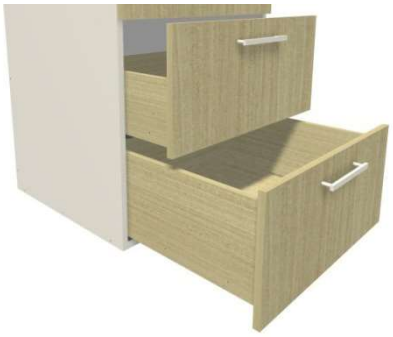
- Click on the drawer or rollout back in an orthographic (smiley face) view of the cabinet editor.
- The "**Movento Gall 1 ?**" attribute will be displayed if the drawer is at least 120mm tall.
- The "**Movento Gall 2 ?**" attribute will be displayed if the drawer is at least 184mm tall.
- Once galleries are active , the gallery position attributes will appear
- The "**Movento Gall 1 Pos**" attribute is initially set to 14.5mm – which places the bracket level with the top of the back and the center of the gallery 14.5 down from the top of the back.
- If you enter a value less than 14.5 it will be ignored.
- If you enter a value which would make the drawer side less than 60mm it will be replaced by the maximum value to keep the drawer side at 60mm
- The "**Movento Gall 2 Pos**" attribute is initially set to 78.5mm – which places the gallery 64mm below gallery 1 and the center of the gallery is therefore 78.5 down from the top of the back.
- If you enter a value less than 78.5 it will be ignored.
- If you enter a value which would make the drawer side less than 60mm it will be replaced by the maximum value to keep the drawer side at 60mm
- Values for either gallery position which would force the gallery bracket to hit each other will also be replaced by a value which keeps them 64mm apart.
- The "**Movento Side Hgt**" attribute allows the drawer or rollout sides heights to be edited.
- Initially when galleries are added, the side height will change to just below the lowest gallery bracket.
- To make it smaller simply enter a smaller value.
- Any value less than 60mm will be ignored.
- Any value which would cause the side to hit the gallery bracket will be replaced by the maximum value that clears the bracket:



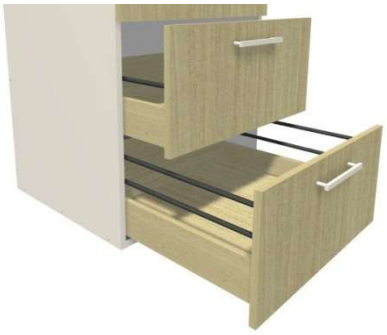




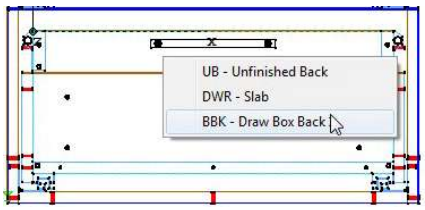


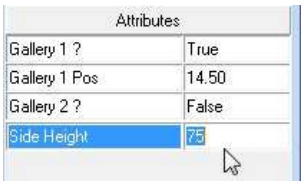


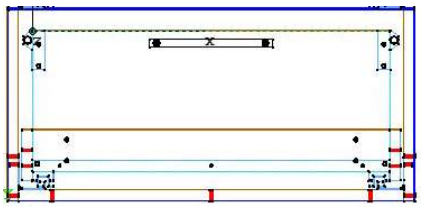


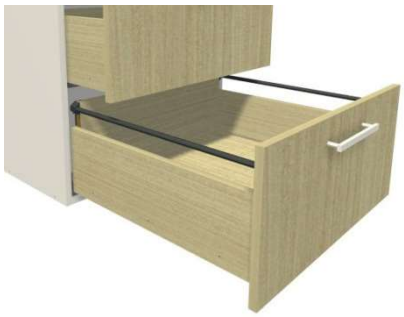


- Galleries being added as shown.

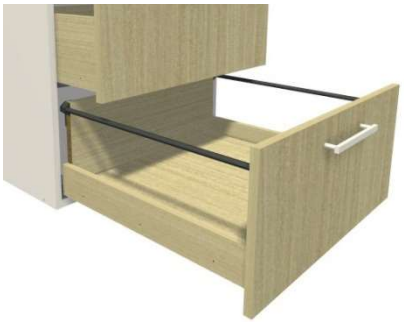








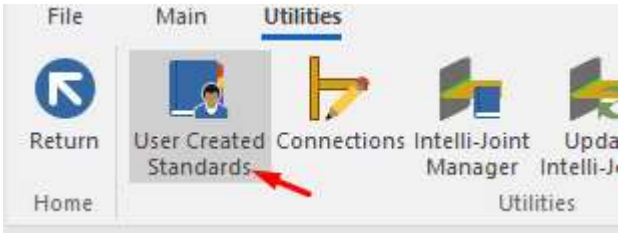
- Side Height being reduced as shown.

# Drilling Setup

## UCS Public Variables

There are 13 Public Variables in the "**{ DRAWS } -- Blum Movento Attributes "** UCS

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




- Then click on the **"{ DRAWS } -- Blum Movento Attributes"** UCS
- On the top left hand side of the screen you will see the Public Variables lists:

| Public Variables | |
|---|---|
| Front Gallery Depth | 12mm |
| Front Gallery DIA | 10mm |
| Guide Cabinet Depth | 12mm |
| Guide Cabinet DIA | 5mm |
| Lock Device Depth | 5mm |
| Lock Device DIAM | 3mm |
| Movento Side Dado Tool ID | 0 |
| Back Gallery Depth | 5mm |
| Back Gallery DIAM | 2mm |
| Back Lug Depth | 12mm |
| Back Lug DIAM | 5mm |

Each set of holes has a diameter and depth value.

**Front Gallery** = Holes in the Drawer front or Rollout front for the Gallery Rails.
**Guide Cabinet** = Holes in the Cabinet ends for the Drawer or Rollout Guides.
**Lock Device** = Holes in the Drawer Bottom for the Locking Device.
**Back Gallery** = Holes in the Drawer or Rollout back for the Gallery Rail Brackets.
**Back Lug** = Holes in the Drawer or Rollout back for the Drawer Guide Rear Lug.

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

**Movento Side Dado Tool ID** = The Tool ID for the side dado (explained in the "Drawer and Rollout Construction" section below, sets the tool ID to the correct tool from your tool catalog.

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

## Vertical position of drawers

We have positioned the Movento drawers according to Blums recommended position, which will place the drawer guide holes in the ends for the bottom drawer, 53mm above the bottom of the cabinet ends(55 for TIPON). We have achieved this by setting the "Minimum Bottom Clearance" in the drawer guide materials to 14.5.mm(16.5 for TIPON). This will give approximately 1mm (3mm for TIPON) clearance between the cabinet deck and the bottom of the drawer guides and can be seen in the cabinet.

## Tools Required

- The drill diameters you choose in the UCS 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.

# Drawer and Rollout Construction

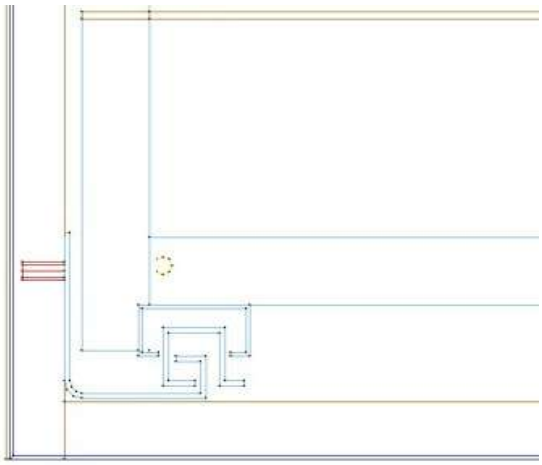
## General

The drawer and rollout construction method we have created is supplied “as is”. Feel free to modify them to your preferred method (including adding any construction boring), but be aware of the following:

- The drawer bottom must remain 12mm above the bottom of the drawer. Changing this setting will affect how the gallery rails resize the sides.
- The sides therefore must remain 12mm below the bottom edge of the bottom as well.
- The drawer back must line up with the bottom edge of the bottom for the back lugs to drill into the back instead of the back edge of the bottom and for the guides to run through rather than being notched out.
- The drawer sub front must line up with the bottom edge of the bottom for the guides to run through rather than having to be notched out.

## Drawer Side Dado

We have added a dado to the bottom inside face of the drawer and rollout sides which will only activate if the material thickness is more than 16mm.
It will take off any thickness over 16mm so that the drawer guide side clearance can remain at 5mm for any thickness material, and the total measurement for the drawer guide gap remains at 21mm, which is a fixed value.
The width of the dado is 13mm, which is the distance the sides hang under the drawer bottom, where the drawer guide is located



- This diagram shows the dado active on 19mm material.

To set the Tool used for this dado refer to the previous section “Drilling Setup”

# Package Exclusions

Some of the drawer drilling shown in various images contained in this document are not included in the Blum Movento Visual 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.