Blum LEGRABOX User Guide.



Introduction

Overview

- The 'Blum LEGRABOX Package' from Solid Setup Plus adds the Blum LEGRABOX drawers to Cabinet Vision Solid.
- 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 sides, runners, and brackets etc.
- All material descriptions contain the Blum order number after the # symbol.
- Silk White, Carbon Black, Orion Grey and Stainless Steel colours.
- C-Height Inner drawers can have front Gallery or High/Low Design Elements**.**
- Also Includes "FREE" (glass sides) for C-Height drawers.
- Rollout for Metal fronts, ROF fronts and SLAB fronts are provided.

Included in This Package

Drawer Guide Schedules:

Note: With the "FREE" schedules, the only difference is the C-Height drawers have glass sides, the rest are the same.

- "Blum Legra Wte Bmtn 40kg" Legrabox Silk White with Blumotion-S 40Kg guides.
- "Blum Legra Wte Bmtn 70kg" Legrabox Silk White with Blumotion-S 70Kg guides.
- "Blum Legra Blk Bmtn 40kg" Legrabox Carbon Black with Blumotion-S 40Kg guides.
- "Blum Legra Blk Bmtn 70kg" Legrabox Carbon Black with Blumotion-S 70Kg guides.
- "Blum Legra Ogr Bmtn 40kg" Legrabox Orion Grey with Blumotion-S 40Kg guides.
- "Blum Legra Ogr Bmtn 70kg" Legrabox Orion Grey with Blumotion-S 70Kg guides.
- "Blum Legra SS Bmtn 40kg" Legrabox Stainless Steel with Blumotion-S 40Kg guides.
- "Blum Legra SS Bmtn 70kg" Legrabox Stainless Steel with Blumotion-S 70Kg guides.
- "Blum Legra_Free Wte Bmtn 40kg" Legrabox-Free Silk White with Blumotion-S 40Kg guides.
- "Blum Legra_Free Wte Bmtn 70kg" Legrabox-Free Silk White with Blumotion-S 70Kg guides.
- "Blum Legra_Free Blk Bmtn 40kg" Legrabox-Free Carbon Black with Blumotion-S 40Kg guides.
- "Blum Legra_Free Blk Bmtn 70kg" Legrabox-Free Carbon Black with Blumotion-S 70Kg guides.
- "Blum Legra_Free Ogr Bmtn 40kg" Legrabox-Free Orion Grey with Blumotion-S 40Kg guides.
- "Blum Legra_Free Ogr Bmtn 70kg" Legrabox-Free Orion Grey with Blumotion-S 70Kg guides.
- "Blum Legra_Free SS Bmtn 40kg" Legrabox-Free Stainless Steel with Blumotion-S 40Kg guides.
- "Blum Legra_Free SS Bmtn 70kg" Legrabox-Free Stainless Steel with Blumotion-S 70Kg guides.

Drawer Guide Materials:

The following guides are provided in Silk White, Carbon Black, Orion Grey and Stainless Steel.

Type	Type	Weight	Profile	BOXH	Back Hgt		270	300	350	400	450	500	550	600	650
pure	Bmn/TipBmn	40	N	78.4	39	Drawers				400	450	500	550		
pure	Bmn/TipBmn	40	M	102.4	63	Drawers	270	300	350	400	450	500	550	600	
pure	Bmn/TipBmn	40	K	140.4	101	Drawers		300	350	400	450	500	550	600	
pure	Bmn/TipBmn	40	C	187.4	148	Drawers	270	300	350	400	450	500	550	600	
free	Bmn/TipBmn	40	C	187.4	148	Drawers			350	400	450	500	550	600	
pure	Bmn/TipBmn	40	F	251.4	212	Drawers				400	450	500	550	600	
pure	Bmn/TipBmn	40	M	102.4	63	Rollouts	270	300	350	400	450	500	550	600	
pure	Bmn/TipBmn	40	K	140.4	101	Rollouts		300	350	400	450	500	550	600	
pure	Bmn/TipBmn	40	C	187.4	148	Rollouts	270	300	350	400	450	500	550	600	
free	Bmn/TipBmn	40	C	187.4	148	Rollouts			350	400	450	500	550	600	
pure	Bmn/TipBmn	70	M	102.4	63	Drawers					450	500	550	600	650
pure	Bmn/TipBmn	70	K	140.4	101	Drawers					450	500	550	600	
pure	Bmn/TipBmn	70	C	187.4	148	Drawers					450	500	550	600	650
free	Bmn/TipBmn	70	C	187.4	148	Drawers					450	500	550	600	650
pure	Bmn/TipBmn	70	F	251.4	212	Drawers					450	500	550	600	650
pure	Bmn/TipBmn	70	M	102.4	63	Rollouts					450	500	550	600	650
pure	Bmn/TipBmn	70	K	140.4	101	Rollouts					450	500	550	600	
pure	Bmn/TipBmn	70	C	187.4	148	Rollouts					450	500	550	600	650
free	Bmn/TipBmn	70	C	187.4	148	Rollouts					450	500	550	600	650

Note: Orange sizes are not available in Australia

User Created Standards

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

- { DRAWS } -- Blum LBox ID's — Revision List.
- { DRAWS } -- Blum LBox Attributes — Adds Adj Gallery and Design Element etc Attributes to backs.
- { DRAWS } -- Blum LBox Hole Masking — Deletes unwanted holes from drawer fronts and drawer box backs.
- { DRAWS } -- Blum LBox Runners — Adds the drawer profiles and drawer guides to reports (Optional)
- { DRAWS } -- Blum LBox Brackets — Adds the drawer front and back brackets and TIP-ON Blumotion Units
- { DRAWS } -- Blum LBox Rollout — Adds the rollout metal front, Element and cross gallery
- { DRAWS } -- Blum LBox Bottoms — Adds the drawer bottom Dado for the drawer profile mounting.

Drawer Boxes

The Following drawer box constructions are provided:

- Blum Legrabox Bmn Drawer (Blummotion Drawer)
- Blum Legrabox Bmn Inner Metal (Blummotion Metal front Rollout)
- Blum Legrabox Bmn Inner ROF (Blummotion Wooden- ROF - front Rollout)
- Blum Legrabox Bmn Inner SLAB (Blummotion S_SLAB front Rollout)
- Blum Legrabox Tip Drawer (TIP-ON Blummotion Drawer)
- Blum Legrabox Tip Inner Metal (TIP-ON Blummotion Metal front Rollout)
- Blum Legrabox Tip Inner ROF (TIP-ON Blummotion Wooden- ROF - front Rollout)
- Blum Legrabox Tip Inner SLAB (TIP-ON Blummotion S_SLAB front Rollout)

Room Attributes

The Following system attributes are provided:

- S_Room_DFront_Screwon "Draw Front Screwon"

Room NOTES

The Following system notes are provided:

- S_Room_LBox_Inner_Fnt "Legrabox Inner Fronts" => Galley/High Element/Low Element
- S_Room_LBox_Fronts_3a "Legrabox Fronts Option 3a" => TRUE/FALSE

Legrabox Usage

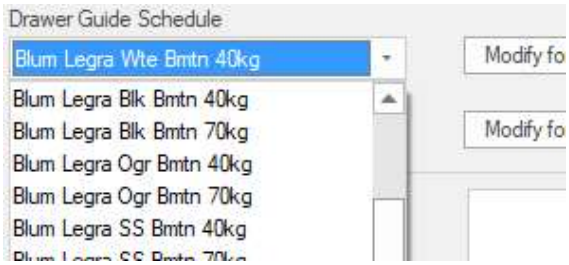
Menu Selections for a Job or Room.

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



- In the Hardware tab, choose one of the Blum Legrabox 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 Blum Legrabox.

Menu Selections for a Cabinet.

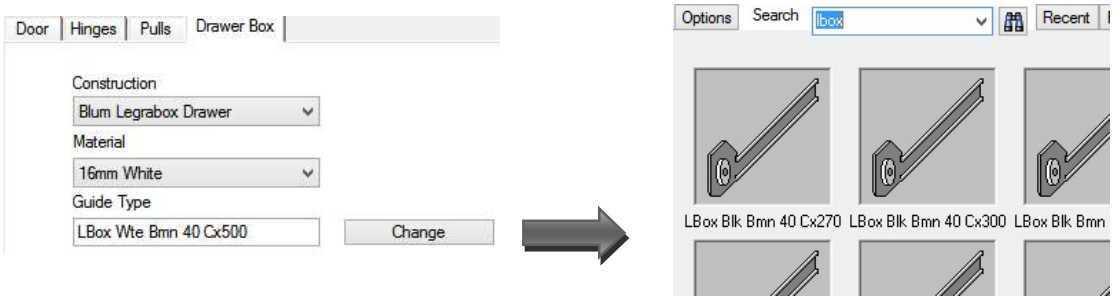
To use Legrabox drawers in a cabinet when Legrabox has **not** been selected in the room or job the Construction, Materials and Hardware tabs for the cabinet in question **must** be set to the same selections as above.

- 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.
- The Cabinet Construction tab should have the **Drawer Box** set to "**Blum Legrabox …Drawer**" and the **Roll Outs** set to "**Blum Legrabox… Inner…**"
- In the Hardware tab, choose one of the Blum Legrabox 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 Blum Legrabox.

Menu Selections for one Drawer/Rollout.

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

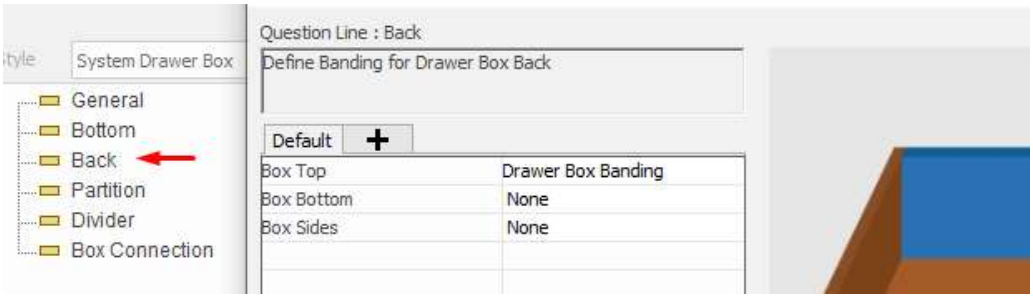
- Take the cabinet into the cabinet editor, click on the section view, and double click on the drawer/rollout to bring up its Properties menu, and then select the Drawer Box or Rollout Tray tab.
- The Construction tab should be set to "**Blum Legrabox ….Drawer**" or "**Blum Legrabox ….Inner….**" if it 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 "LBox" to quickly find the guide you want rather than paging through materials..

Drawer Box Banding Setup

- For the drawer and roll out backs to be banded correctly please run the Construction wizards for the backs in the "Blum Legrabox Drawer" and "Blum Legrabox Inner" construction methods:

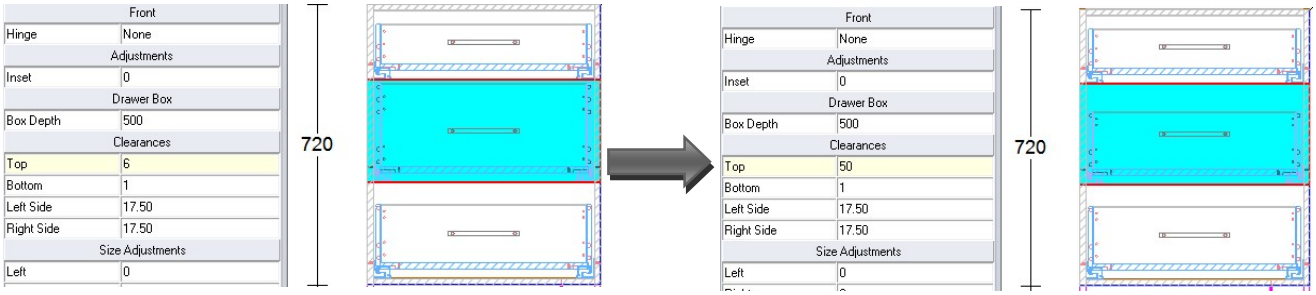


Drawer Boxes

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:

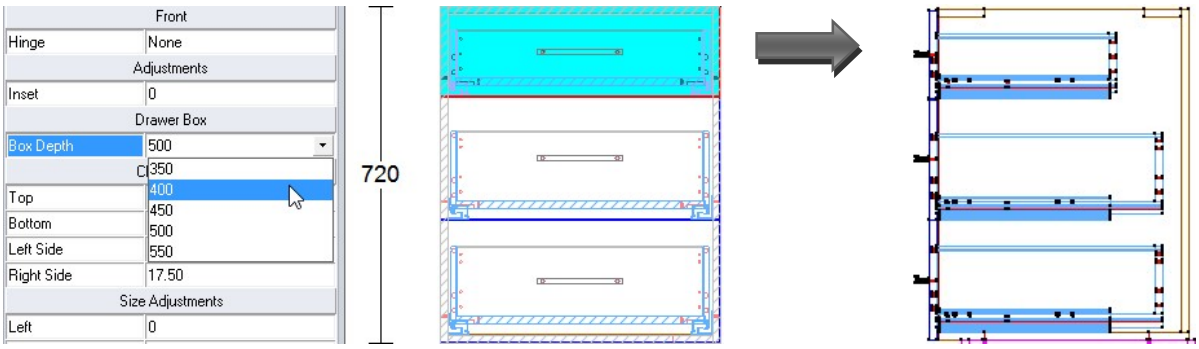


- **NOTE:** *If you are using a drawer leveling UCS (which moves the top drawer boxes up to match the bottom lip reference of the bottom drawer), this may cause those drawer boxes to interfere with an object above them, whether it be the next drawer front, the cabinets top or top stretcher or a drawer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

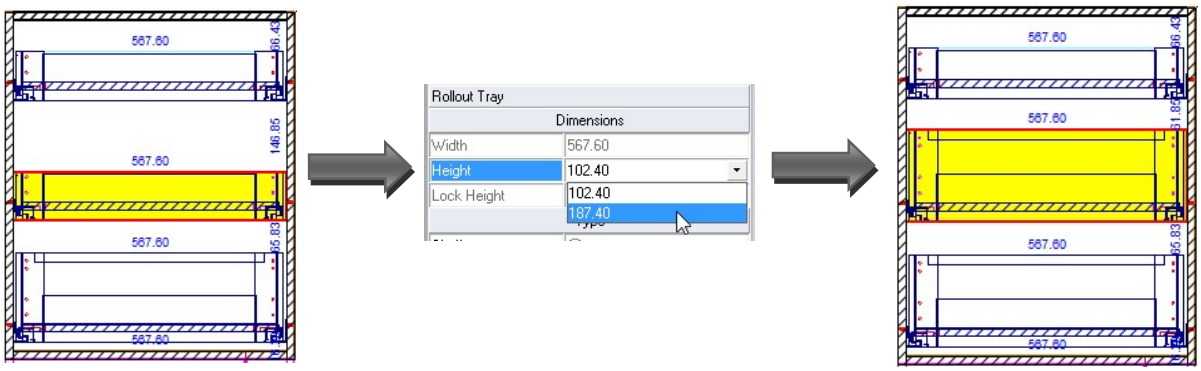
- To select a smaller drawer box depth, click on the drawer front in the section view.
- Choose the “Box Depth” from the dropdown list in the sidebar as shown here:



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:

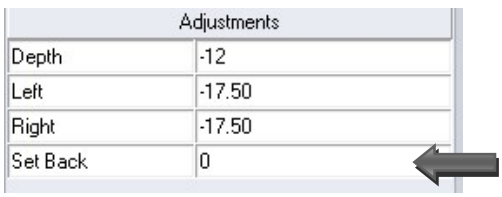


Rollout Depth Control

- 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

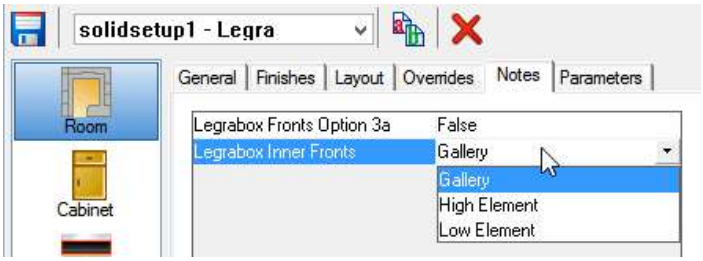
- By default we have set all the metal rollouts back by 9mm compared to a drawer.
- This is enough for the front brackets of the rollout drawer to clear the door.
- For the ROF and SLAB Rollouts we have set it to 20mm – enough to allow up to 19mm fronts.
- To change the default value Refer to the "**Drilling Setup**" section below
- To adjust the setback of each rollout individually, use the "**Set Back**" setting under "**Adjustments**", in the section view:



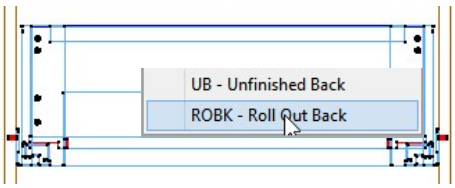
C Height Inner Front Options

For the C Height Inner Drawer Options there is a Room Note to set your preference for the whole room, and also an attribute on each rollout back to change an individual rollout.

- To set the Room note, press the Room button in Plan or Elevation view of the room.
- Then select the Notes tab, and use the "**Legrabox Inner Fronts**" list to select Gallery, High or Low Element.



- To Change one Rollout, click on the rollout back in an orthographic (smiley face) view of the cabinet editor.
- Use the "**Legrabox Inner Front?**" attribute in the left sidebar to select Gallery, High or Low Element (Auto resets to Room preference)





Gallery



High Element



Low Element

Rollouts with wooden fronts (Blum Legrabox Inner ROF)

- This Rollout type will not use the metal front piece, but will use a wooden front instead.
- The wooden front size and banding is set in the Roll Out Wizard – Roll Out Front
- Default overhangs are : Bottom 23mm , Sides 14.5mm (3mm from carcass), Top -2mm (2mm above sides)
- 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

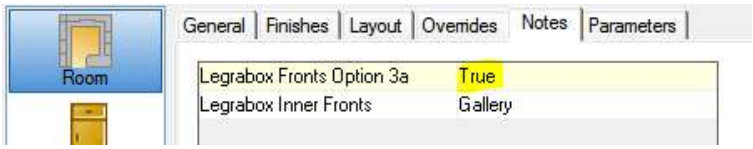
Rollouts with drawer fronts (Blum Legrabox Inner SLAB)

- This Rollout type will not use the metal front piece, but will use a drawer front (S_SLAB) instead.
- The wooden front size and banding is set in the Roll Out Wizard – Roll Out Front
- Default overhangs are : Bottom 23mm , Sides 14.5mm (3mm from carcass), Top -2mm (2mm above sides)
- You can alter the wizard if you prefer different overhangs.
- The material for the slab front and its edge banding are set in the door Material Schedule

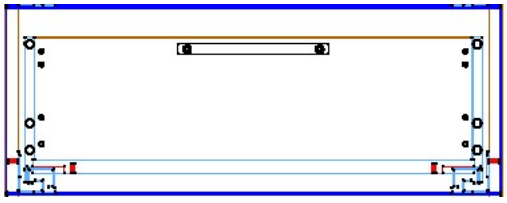
Option 3a drawer brackets for C and F Heights

The Blum Option 3a for the C and F height drawer fronts can be selected via Room Note.

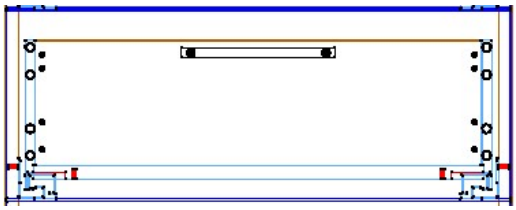
- To set the Room note, press the Room button in Plan or Elevation view of the room.
- Then select the Notes tab, and set the "**Legrabox Fronts Option 3a**" note to TRUE.



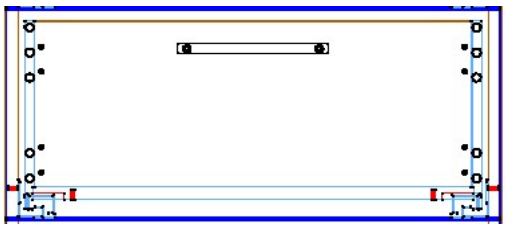
This option effects the drawer front drilling and the number of brackets added to the reports for ordering.



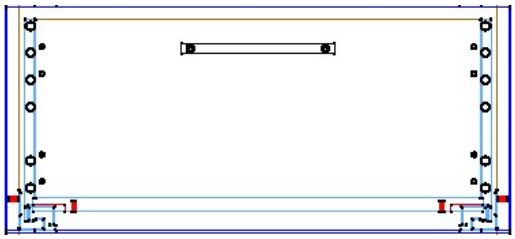
C Height Option 3a = FALSE



C Height Option 3a = TRUE



F Height Option 3a = FALSE



F Height Option 3a = TRUE

Drawer Fronts Screwon

Room Attribute

The “Draw Front Screwon” is a Room attribute which will change all the drawer front mounting holes to screw holes and change the front bracket material to the screw mount bracket for reports and ordering purposes.

Tipon Blummotion

Construction Methods

The Blum Tipon-Blummotion parts are added to the drawers and rollouts containing “Tip” in the name instead of “Bmn” Example: Blum Legrabox Tip Drawer – or – Blum Legrabox Tip Inner ……., etc.

When Tipon-Blummotion drawers or Rollouts are selected, and cabinet internal width (LW) is over 245mm, Tipon-Blummotion parts will be added visually and for reporting.

Drawer and Rollout Back Attribute

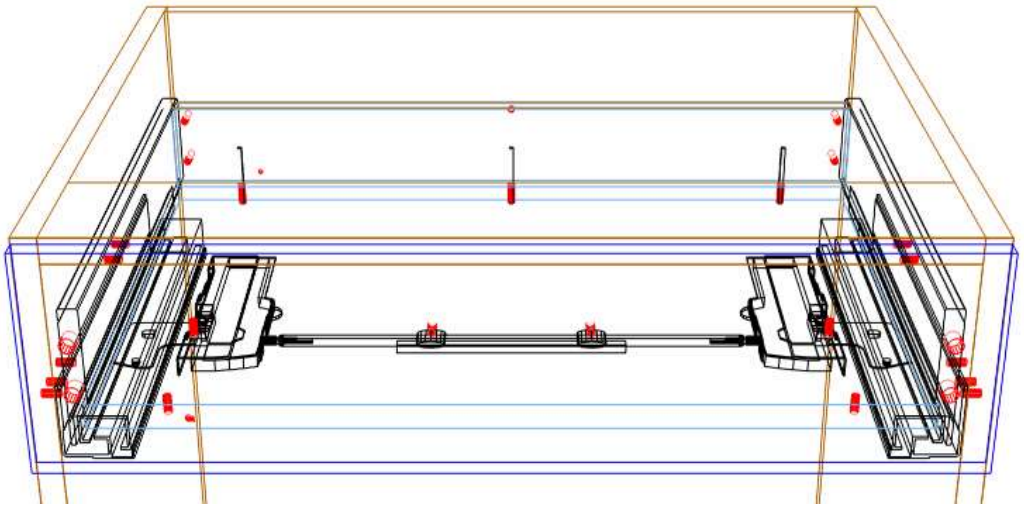
The following back attribute can be used to change the Tipon set applied:

Attribute – “Legrabox TiponBmn Set”
For 270 or 300 deep drawers the options are:

- S1 Weight 10-20kg (default)
- S0 Weight <10kg

For 350 to 600 deep drawers the options are:

- L3 Weight 15-40kg (default)
- L1 Weight <20kg
- L5 Weight 35-70kg (If 70kg guides are being used this selection is locked)

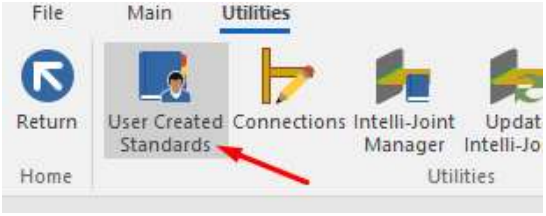


Drilling Setup

UCS Public Variables

There are 15 Public Variables in the "**{ DRAWS } -- Blum LBox Attributes "** UCS.
There is 1 Public Variable in the "**{ DRAWS } -- Blum LBox Bottoms "** UCS.

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



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

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 mm, Edit the values in the **Imp()** brackets to the diameter and depths you require.
- If your system is set to inches, simply replace the whole **imp()** with the imperial measurement instead.
- Eg: **Imp(3)** might become **1/8**

Note: To turn off any of the holes if not required, like the box bottom holes for example, set the depth to zero.

- Then click on the **"{ DRAWS } -- Blum LBox Bottoms"** UCS.
- On the top right hand side of the screen you will see the Public Variable:

Public Variables	
Bottom DADO TOOL ID	0

Bottom DADO TOOLID = Tool ID from your tool catalog to be used for the bottom dadoes.
Change this to the tool you prefer or leave it at zero for auto tool selection.

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

Blums Drawer Bottom Drilling

WARNING: There is no documentation from Blum for the drawer box bottom drilling other than the front two holes, so the remaining holes positions are not included and will not be drilled.

Vertical position of drawers

We have positioned the Legrabox drawers 1mm higher than flush as per Blums 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 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 Blum Legrabox 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.