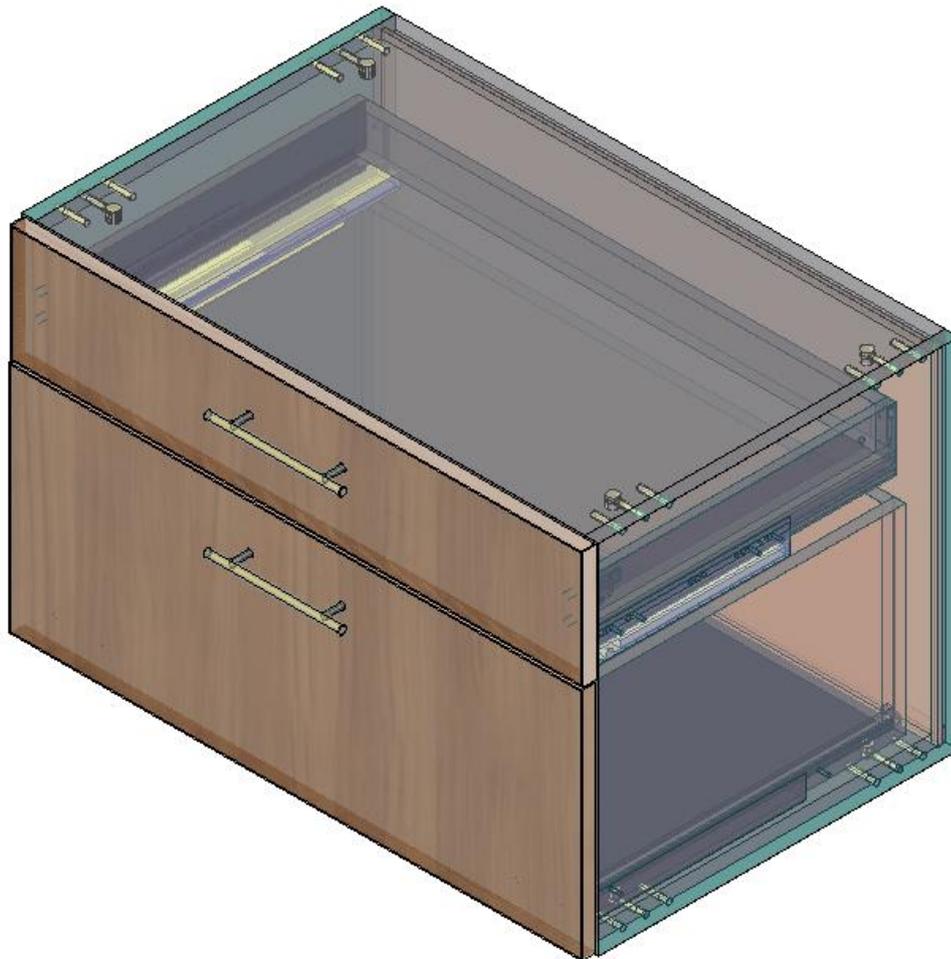


Training CAD/ Drawer: Drawer Principles



We make every effort to ensure the content of our documentation is complete, accurate and up to date. However, continuous development of the described software means it is not possible to guarantee the information is accurate, complete and up to date at all times.

We shall endeavor to incorporate in subsequent versions corrections to any errors or omissions we either become aware of or which are reported to us. imos does not accept liability for direct or indirect damages caused by the use or non-use of the information provided or caused by the use of incorrect or incomplete information. The descriptions in this document are subject to change without notice. All rights reserved.

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1. Introduction



Objectives of this exercise

- Get to know the data installation for drawers
- Create your own drawer principles
- Use self-created drawer principles
- Get to know extended setting options for drawers

The abbreviations used

- **CP** Construction Principle
- **ADG** Article Designer Group
- **AD** Article Designer
- **DR** Drawer
- **_C_** Set in the name of data objects instead of “_C_”
e.g. “M_” for “Miller” to mark the data object as your own.
- **_Customer** This abbreviation is applied for naming folders in the data system. Replace this term with your firm’s name on your own system, e.g. “_Miller”.
- **C-Scan** Connection Scan
- **DCO** Design Catalog Online

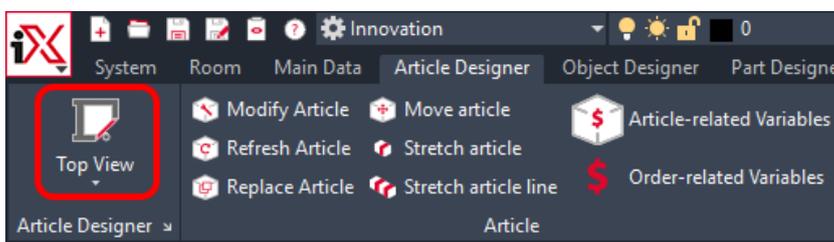
2. The Article Designer

Hint

Details on how to implement points **2.1- 2.3** are in the exercise: **“Create and divide article”**.

2.1 Start Article Designer

Open the tab **Article Designer** and click on the button **Top View**.



Now you are in the Article Designer!

2.2 Save Article

First save the article under a new name.

imos	
Article Name	C_BC_1DR_1SL
Description	

Enter an article name and end the process with  .

2.3 Define Size of the Article

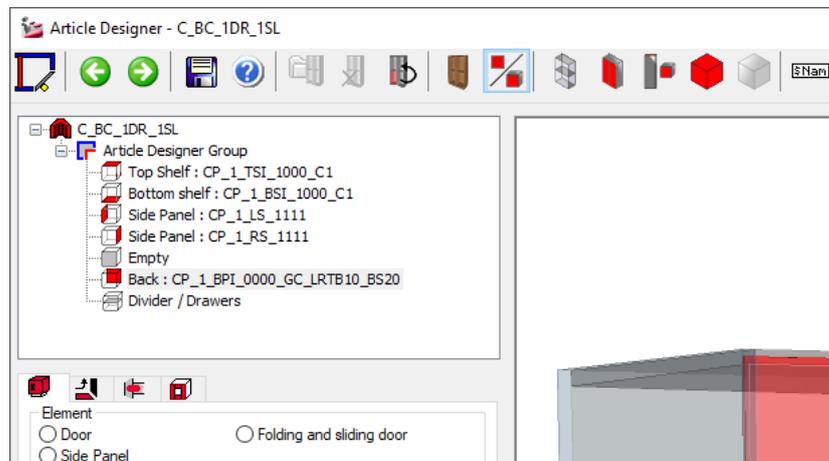
Define the size of your article.

In order to do this, set the following dimensions (in mm): **H: 500 W: 800 D: 500**

Height	Width	Depth
500	800	500

2.4 Create the Box

Create a box with the depicted CPs below.



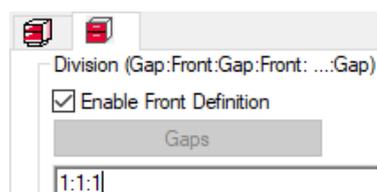
3. Insert Drawers

Select “Divider / Drawers”. As no dividers (shelves or dividers) are required, select the tab “Drawers” in the “Settings”.



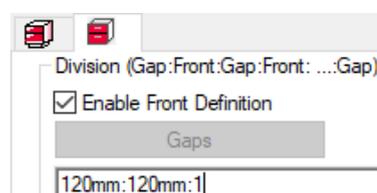
Now in the text field enter in the text field the division of the drawers in this Article Designer Group.

This entry defines in which relation the drawers should be set up in an Article Designer Group.

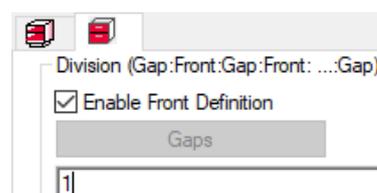


The text field functions like a linear division.

Relative values e.g. **1:1** or **1:1:1** can be entered to construct equally divided drawers.



You can define the relative heights of the drawer front panel, but an absolute division can also be defined. The program adds the required front reveals and gaps from the respective current design parameters.



Unlike with the linear divisions, the value “**1**” is also possible here to insert exactly 1 drawer.

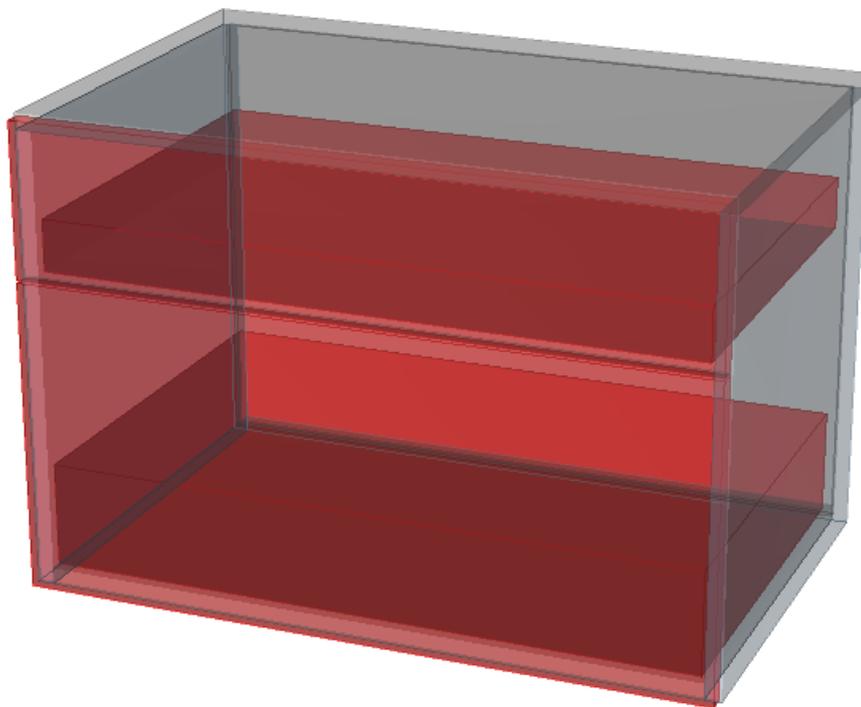
The construction of your DR-Cabinet considers that the bottom drawer is double the size of the top one. Therefore enter “2:1” as the division of the drawers.



As in the linear division this entry must be closed with “**ENTER**” so that the entered division of the drawers is applied.

2:1			
	Height	Principle	Parameters
		2_Side_Frame...	
		2_Side_Frame...	

The graphical preview shows 2 drawers with different heights in your article.

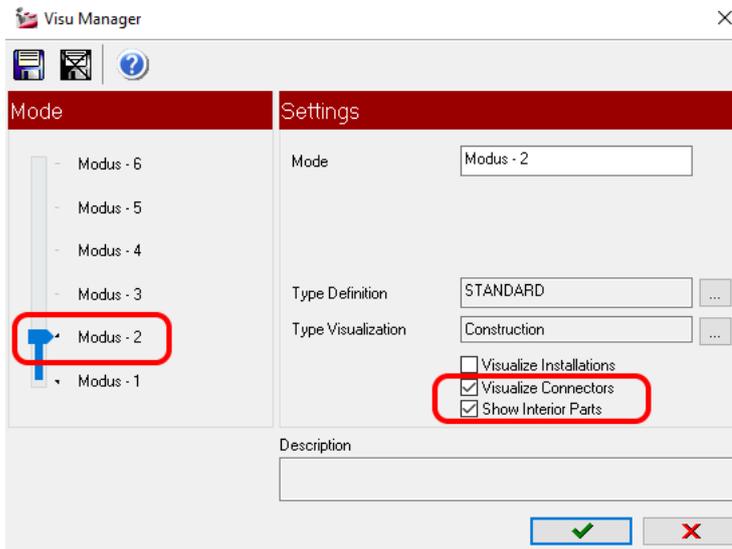


2:1			
	Height	Principle	Parameters
		2_Side_Frame...	
		2_Side_Frame...	

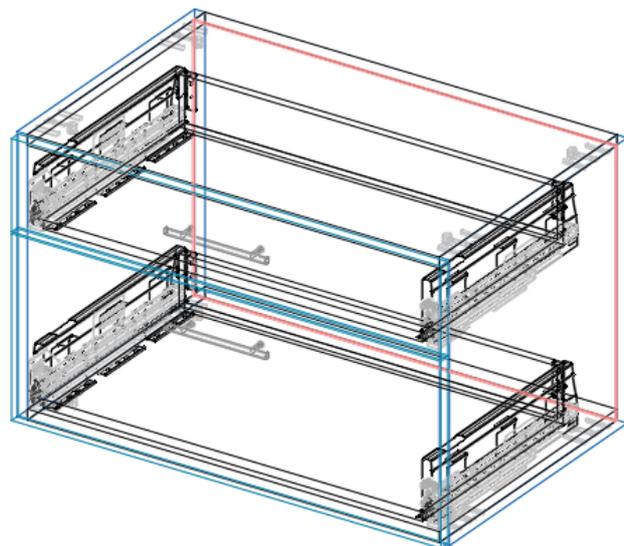
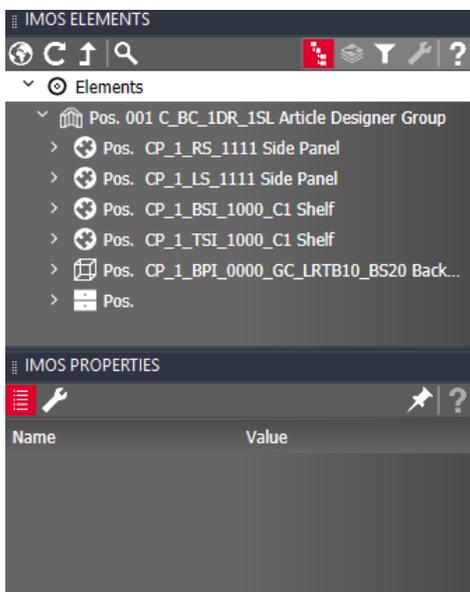
Furthermore, the drawer principle per drawer is displayed in the rows below the text field. This is set in the currently valid construction rule on the basis of the definition.

4. Set up the Article in the Graphic

Save your article and set it up in the drawing. Select a visualization without profiles, but with connectors and interior parts.



A visualization with drawers (interior parts) and runner system (connector) appears, which is similar to the image below. Both drawers have been designed with dimensional suitable drawers and Quadro drawer runners.



The selection of the construction is relevant for the provided tabs and therefore for the usable characteristic of a drawer principle.

The “**Construction**” is available for all construction types, the allocation of the remaining tabs is controlled via the characteristic value of the construction system, “**Purchase drawer**” or “**Inhouse production**”.

5.2.1 Connection Situation

The connection situation of the drawer principle is entered in the tab Connection.

Hint



The name of a drawer principle is quite often identical with the inserted connection situation. This can lead to a misunderstanding that a drawer must be created for every connection situation.

However, the connection situation is only one of the numerous characteristics of a drawer principle.

5.2.2 Purchase drawer

This usually refers to a purchase drawer or a three-sided drawer system drawer. A pantry pull-out is usually “**Purchase drawer**” as well.

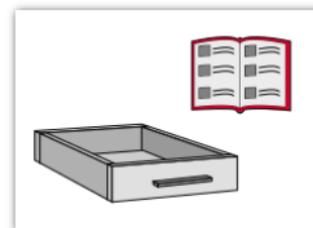
The following settings can be made on the tab:

- Tab “**Front**”
Front filler and pull

2_Side_Frame_System_1

Name	Value
▾ Default settings	
Construction	Purchase drawer ▾
Manufacturing Information	▾ ...

- > Construction
- > **Front**
- > Connection
- > Article XML
- > Usage



5.2.3 Drawer system

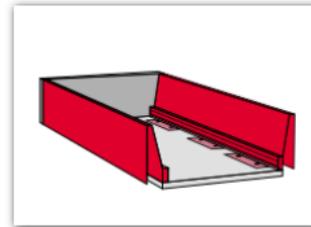
This usually refers to a two-sided drawer system.

The following settings can be made on the tabs:

- Tab **“Front”**
Front filler and pull
- Tabs **“Front edge, Back edge, Shelf”**
Front edge, Back edge, and shelf of the drawer

2_Side_Frame_System_1

Name	Value
▼ Default settings	
Construction	Drawer system ▼
Manufacturing Information	▼ ...
> Construction	
> Front	
> Front edge	
> Back edge	
> Shelf	
> Connection	
> Article XML	
> Usage	



5.2.4 Inhouse production

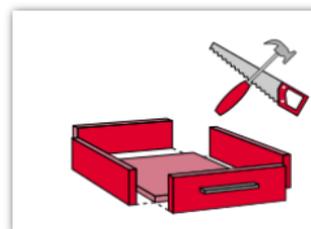
This usually refers to a drawer where all elements are manufactured in inhouse production.

The following settings can be made on the tabs:

- Tab **“Construction”**
Settings to box size and slide-/box position
- Tab **“Front”**
Front filler and pull
- Tabs **“Shelf, Sides”**
Drawer bottom, back, front, and sides

2_Side_Frame_System_1

Name	Value
▼ Default settings	
Construction	Inhouse production ▼
Manufacturing Information	▼ ...
> Construction	
> Front	
> Shelf	
> Sides	
> Connection	
> Article XML	
> Usage	

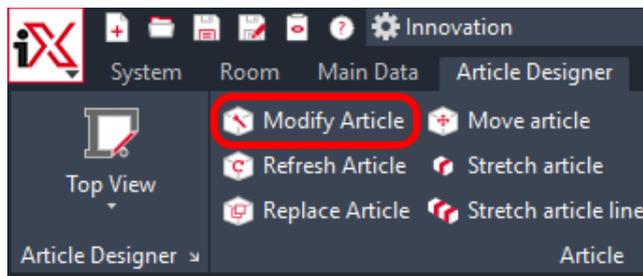


6. Create and apply Drawer Principles

Please, leave the drawer properties to return to the drawing area.

6.1 Modification and Insertion of Two-sided drawer system

For fitting a drawer principle to the top drawer, open the tab “Article Designer” and select “Modify Article”.



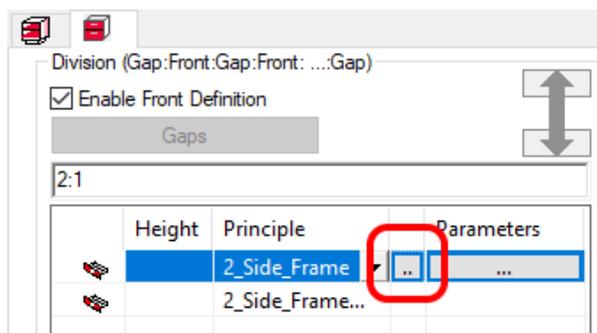
Select the article on the top drawer front. The Article Designer opens and the selected drawer is directly pre-set for modifying.

Tip



Especially with very complex Article Designer Constructions it is useful to select an article for modifying directly on the part where the article should be modified.

Click on the small 3-Point-Button of the top drawer.



Thereby the drawer properties are directly opened out of the Article Designer and the drawer principle “2_Side_Frame_System_1” of the folder “Getting Started” is selected.

To assign a two-sided drawer system, proceed again in the typical steps of data maintaining.



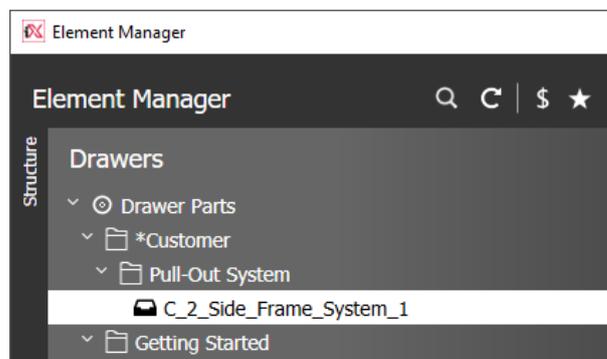
Hint

The typical steps of the data maintaining:

- Select a similar drawer principle
- Change the name of the selected drawer principle
- Save the new drawer principle
- Create a new folder “*Customer”
- Drag your new drawer principle into the new folder
- Change the characteristic values
- Save the new drawer principle
- Leave the drawer properties with “Apply”

Select the drawer principle “2_Side_Frame_System_1”, rename it to “C_2_Side_Frame_System_1” and save the new principle.

Create the customer specific folder “*Customer” with the desired subdirectories and move the new principle to the desired folder.



Now you can adjust the characteristic values of your new drawer principle.

6.1.1 Tab “Connection”

With the connection situation select the pull-out system of the drawer principle. In this case, this should be stored as “Pull_Out_System”.



Hint

Even if the connection situation has the value “Pull_Out_System” from Getting Started-delivery data, the search of the Connection Scan is not limited to Getting Started-Connector sets. However, the prerequisite is that you have loaded and installed the DCO Catalogs, for example, Hettich, Blum, Grass etc. and the characteristic values of the connector sets match with your construction.

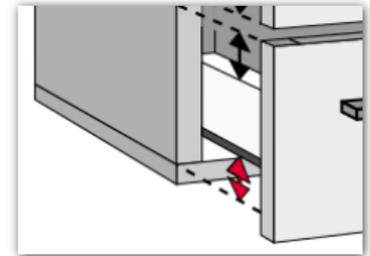
6.1.2 Tab “Construction”

Now in the tab “**Construction**” change the distances of the frame to the top-/bottom shelf and top-/bottom edge of the front fillers as shown in the screenshot below.

> Default settings

∨ Construction

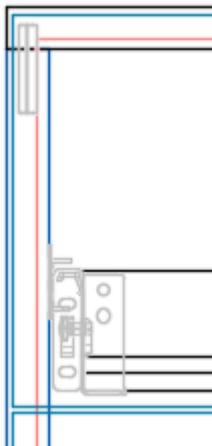
Distance to front panel bottom	2
Distance to front panel top	2
Top shelf obligation	<input checked="" type="checkbox"/>
Distance to Top Shelf	5
Bottom shelf obligation	<input checked="" type="checkbox"/>
Distance to Bottom Shelf	5
Inner drawer positioning	from below ∨
Depth Reference	Short side ∨
Offset in X <-> drawer	0
Offset in Z <-> drawer	0



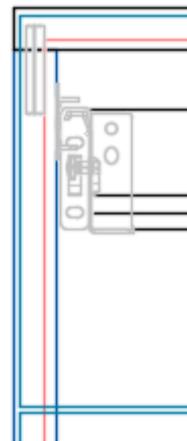
Leave the **Inner drawer positioning** “**from below**”. In this way the drawer system is inserted as far as possible down.

With the setting “**from above**” the drawer system is inserted as far as possible to the top, which is not really wanted for low frames. Try the setting “**from above**” out once.

Setting: “from below”



Setting: “from above”



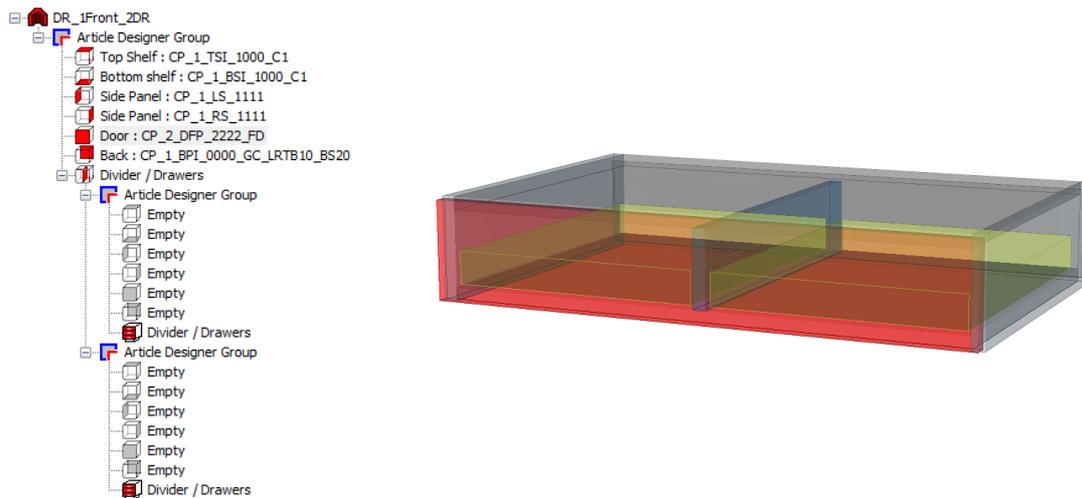
6.1.3 Tab “Front”

Here you can define if your drawer principle should create a front filler or if the drawer should be connected to a front which is already in the ADG.

Hint

Here is an example for the entry “**Connect with neighbour element**”:

- Cabinet with 2 insertion zones for drawers, but with onset front fillers

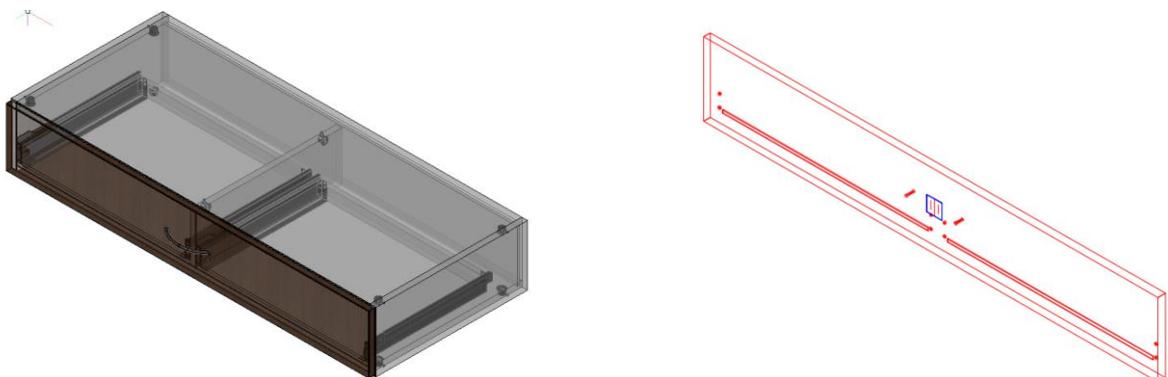


Drawer principle “**Connect with neighbour element**”

Front

Insert Front	<input type="checkbox"/>
Part Definition front panel	\$PD_Drawer_Front_1
Thickness	
Connect with neighbour element	<input checked="" type="checkbox"/>
Adjust Distance	<input type="checkbox"/>

The drawers connect with the onset front fillers.



Leave the setting as it is for the construction...

▼ Front

Insert Front	<input checked="" type="checkbox"/>
Part Definition front panel	\$PD_Drawer_Front_1
Thickness	
Connect with neighbour element	<input type="checkbox"/>
Adjust Distance	<input type="checkbox"/>

... so that your drawer principle creates a front filler for the drawer on the basis of the Variables “\$PD_Drawer_Front_1”.



Here you can see that it is referenced from the PD of the drawer front.

You can assign up to 3 pull principles for every drawer front on the tab “**Front**”. In this case, leave it with the entered pull principle, that a pull is positioned in the centre of the drawer front.

Pull	Pull_Drawer	▼	...
Pull		▼	...
Pull		▼	...
Manufacturing Information		▼	...

6.1.4 Tabs “Front edge, Back edge, Shelf”

On the tabs “**Front Edge**”, “**Back Edge**” and “**Shelf**” you can define the PD for the elements, which do not deliver the connector set of the two-sided drawer system. This is normally the drawer shelf and drawer back panel.

▼ Front edge

Part Definition		▼	...
Thickness			
Manufacturing Information		▼	...

▼ Back edge

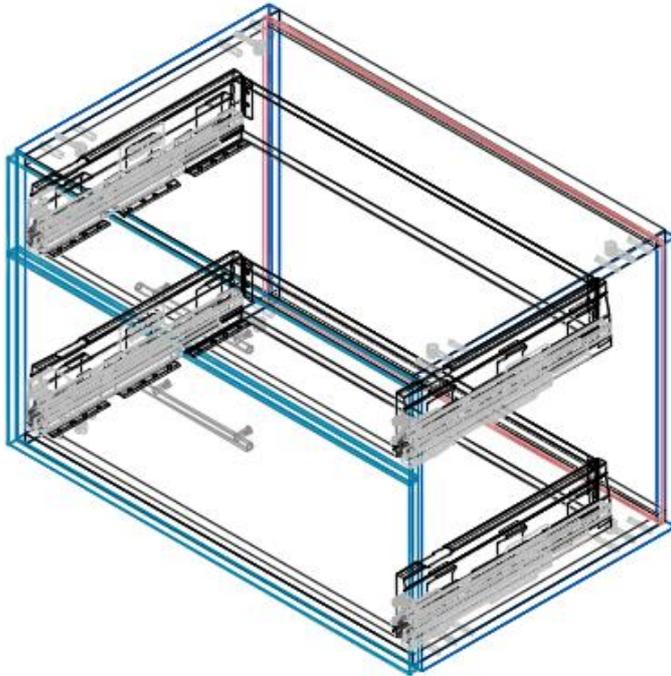
Part Definition	PD_1_BK_0010	▼	...
Thickness			
Manufacturing Information		▼	...

▼ Shelf

Part Definition	PD_1_DB_0000	▼	...
Thickness			
Manufacturing Information		▼	...

Save this drawer principle and assign it to the top drawer by leaving the drawer properties.

Save your article and your article can be set up again in the drawing area.

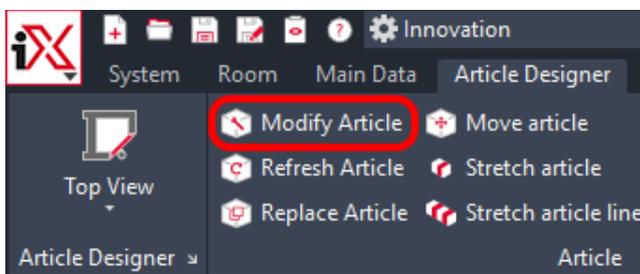


Tip

You can also use this drawer principle if you want to use a connector set which has a steel back panel, for example. Select e.g. the top drawer front and start the Connection-Scan in the methods of the imos Properties.

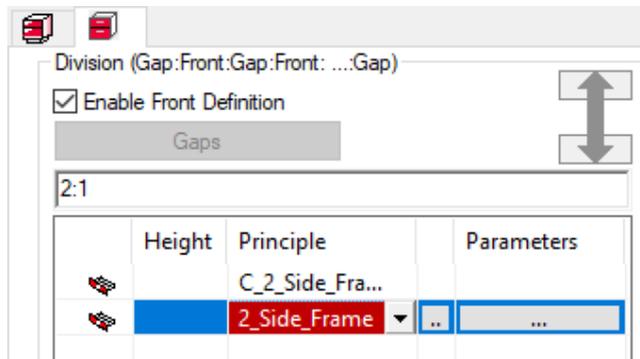
6.2 Modification and Insertion of the Inhouse Production Drawer

Now you are in the drawing area. To provide the bottom drawer with a drawer principle, open the tab “**Article Designer**” and select “**Modify Article**” again.



Select the article on the bottom drawer front. The Article Designer opens and the selected drawer is directly present for modifying.

Click on the small 2-Point-Button of the bottom drawer.



Thereby you open the Element Manager and the drawer principle “**2_Side_Frame_System_1**” of the folder “**Getting Started**” is selected.

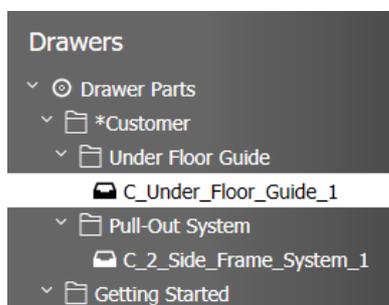
The bottom drawer should obtain a drawer principle with the construction “**Inhouse production**” and the connection situation “**Under_Floor_Guide**”.

Hint

The typical steps of the data maintaining

- Select a similar drawer principle
- Change the name of the selected drawer principle
- Save the new drawer principle
- Create a new directory “***Customer**”
- Drag your new drawer principle into the new directory
- Change the characteristic values
- Save the new drawer principle
- Leave the drawer properties with “**Apply**”

Rename the drawer principle “**Under_Floor_Guide_1**” to “**C_Under_Floor_Guide_1**” and save the new principle. Move it to the customer-specific folder “***Customer**”.



Now you can adjust the characteristic values of your new drawer principle.

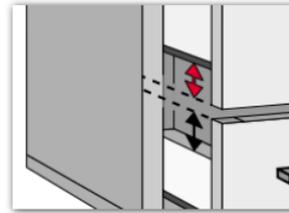
6.2.1 Tab “Construction”

Change the distances to the frame to the top-/bottom shelf and to the top-/bottom edge of the front panel as shown in the screenshot below. Leave the inner drawer positioning as it is “**from below**”. The drawer is inserted as far as possible into the bottom.

> Default settings

∨ Construction

Distance to front panel bottom	3
Distance to front panel top	10
Top shelf obligation	<input checked="" type="checkbox"/>
Distance to Top Shelf	10
Bottom shelf obligation	<input checked="" type="checkbox"/>
Distance to Bottom Shelf	2
Inner drawer positioning	from below
Depth Reference	Short side



In the same tab you can find the settings for the positioning of the drawer and the slide.

Slide Insertion Reference: Bottom

Allow Slide to Move:

Offset: Drawer

Offset in X <-> drawer: -16

Offset in Z <-> drawer: -14

Drawer height: Drawer height different

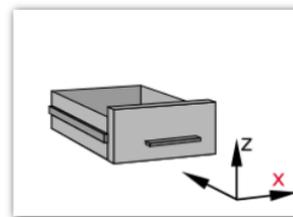
50
60
70
100
120
140
160
176
180
200
220
240
260
280
300
320
340
356

Drawer height different

Drawer depth: Drawer depth different

250
280
300
320
350
380
400
420
450
480
500
520
550
580
600

Drawer depth different



In the **top area** the positioning of the slides can be set. As you are using a drawer runner, leave the setting on “**bottom**”.

In the **middle area** the offset of the drawer or slides can be defined in X- or Z-direction. This setting can only be entered here symmetrical for right and left

In the **bottom area** define the limitations of the drawer dimensions. You can either define a fixed dimension or several valid values. The program compares the dimension of the insertion zone, furthermore, considers the distances to the shelves and to the frame from the tab “**Construction**” and inserts the biggest possible drawer.

Change the values for the drawer height and the drawer depth to obtain the result as shown below.

Drawer height	Drawer height different
Drawer height different	280 290 300 320 340 360
Drawer depth	Drawer depth different
Drawer depth different	400 420 450 480 500
Purchased Part	<input type="checkbox"/>
Manufacturing Information	

Your drawer principle is now set to only construct drawers with the height of **280mm – 360mm** and the depth of **400mm – 500mm**.

At the bottom in the tab “**Construction**” you can set the Inhouse production as purchased part. By doing this, you avoid the output of parts in the part list and obtain the drawers on the purchased part list.

Purchased Part	<input type="checkbox"/>
Manufacturing Information	



Tip

Remember to save your modifications!

6.2.2 Tab “Front”

You already know the setting options of the tab “**Front**” from the definition of the drawer principle for the top drawer.

6.2.3 Tabs “Shelf and Sides”

You also know the tab “**Shelf**” and “**Sides**” from the previous exercise, but with a drawer principle with the construction “**Inhouse production**” you obtain setting options which are considerably different to the frame system.

Here assign the desired CP (Front/Back, Sides) or the desired PD (Base) to every element.

∨ Shelf

Part Definition shelf	PD_1_DB_0000	∨	...
Manufacturing Information		∨	...

∨ Sides 

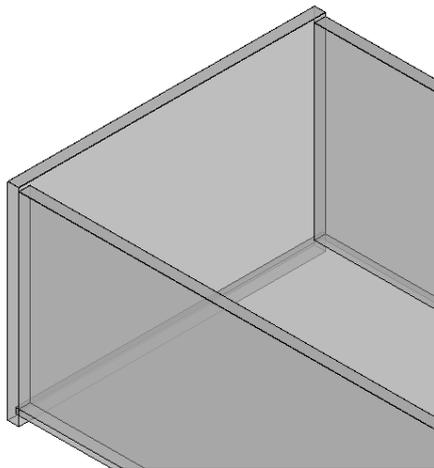
No.	Side	Manufacturing Informati
+ 0	CP_1_DP_1111	
+ 1	CP_1_RP_0111	
+ 2	CP_1_BK_0010	
+ 3	CP_1_LP_0111	

Furthermore, you can set the oversize and inset for front/back and the sides. You also can add a connection situation to the previous part or the next part.

- 1 CP_1_RP_0111	
Connection with Previous Part	Please select... ▼ ...
Connection with Next Part	Please select... ▼ ...
Connection with shelf	Please select... ▼ ...
Joint with Previous Part	Long ▼
Joint with Next Part	Long ▼
Joint with shelf	Long ▼
Reveal to Top	0
Reveal to Bottom	14
Reveal to preceding part	0
Reveal to succeeding part	0
Reveal offset	0
Reveal to shelf	5
Part generation first edge	<input type="checkbox"/>
Part generation reference edge	<input type="checkbox"/>

With the current settings of your drawer principle the program creates a drawer as shown as follows.

- With front
- Base grooved in the sides
- Base under front and back



Set the elements so that the following drawer is generated.

- Without front
- Base grooved in the sides
- Base grooved in the back

6.2.3.1 Front

Delete the CP of the front. Under Sides tab, remove the first CP.

∨ Sides 

No.	Side	Manufacturing Information
+ 0	<input type="text" value=""/>  	
+ 1	CP_1_RP_0111	
+ 2	CP_1_BK_0010	
+ 3	CP_1_LP_0111	

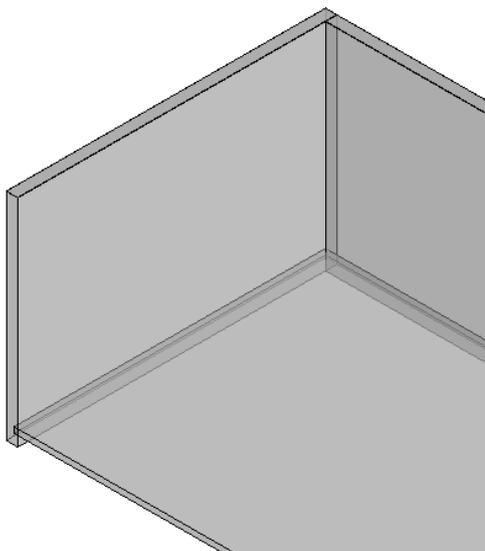
6.2.3.2 Sides

Do not make any modifications on the sides but remember the settings of the oversize.

6.2.3.3 Back

Enter the same oversize as for the sides and select the value “**long**” as the joint to the base here.

- 2		∨_1_BK_0010	
Connection with Previous Part	Please select...		
Connection with Next Part	Please select...		
Connection with shelf	Please select...		
Joint with Previous Part	Short		
Joint with Next Part	Short		
Joint with shelf	Long		
Reveal to Top	0		
Reveal to Bottom	14		
Reveal to preceding part	0		
Reveal to succeeding part	0		
Reveal offset	0		
Reveal to shelf	5		
Part generation first edge	<input type="checkbox"/>		
Part generation reference edge	<input type="checkbox"/>		



Save your modified drawer principle and then return to the drawing via the Article Designer. Now you have a drawer in the desired definition.

Go to your new drawer principle “**C_Under_Floor_guide_1**” via the Article Designer again to add a connection situation.

6.2.4 Connection Situation

Enter the required information about the connection situation to previous/next and to the base to be used for the parts of the drawer. Proceed with the parts one by one in sequence and assign the desired connection situations.

6.2.4.1 Front

As the front does not exist, you don't have to change something here.

6.2.4.2 Sides

The sides require connection situations to the front filler (Previous/ Next).

Set the left and right side as displayed below.

Leave “**i_Groove_DR_bt_shelf**” as the connection situation between side and base.

- 1 CP_1_RP_0111			
Connection with Previous Part	Dowel	▼	...
Connection with Next Part	Please select...	▼	...
Connection with shelf	i_Groove_DR_bt_shelf	▼	...



- 3 CP_1_LP_0111			
Connection with Previous Part	Please select...	▼	...
Connection with Next Part	Dowel	▼	...
Connection with shelf	i_Groove_DR_bt_shelf	▼	...

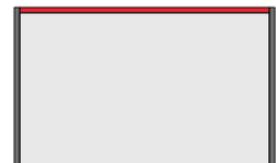


6.2.4.3 Back Panel

The back panel has been set with the same oversize to the bottom and therefore the back panel must be connected with the base via the connection situation

“**i_Groove_DR_bt_shelf**”.

- 2 CP_1_BK_0010			
Connection with Previous Part	Dowel	▼	...
Connection with Next Part	Dowel	▼	...
Connection with shelf	i_Groove_DR_bt_shelf	▼	...





Tip

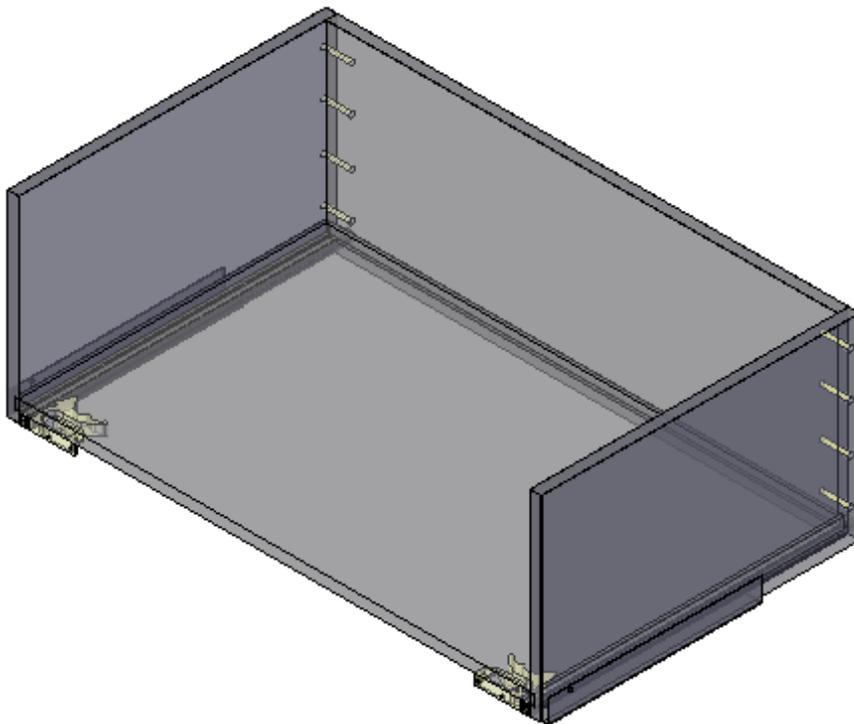
To quickly assign the connection situation “**i_Groove_DR_bt_shelf**”. Select one of the sides and click there on the 3-Point-Button under connections. You find yourself directly on the connection situation “**i_Groove_DR_bt_shelf**”. Now add this connection situation to the favorites (Right-click → Add to favorites). Close the Element Manager.

Now you can select the back panel again with the 3-Point-Button next to the connections → click base and then select the connection situation shelf “**i_Groove_DR_bt_shelf**” in the Favorites list.

All settings have been made. Save your drawer principle and leave the drawer properties with “Apply”.

Afterwards save your article and leave the Article Designer with  as well.

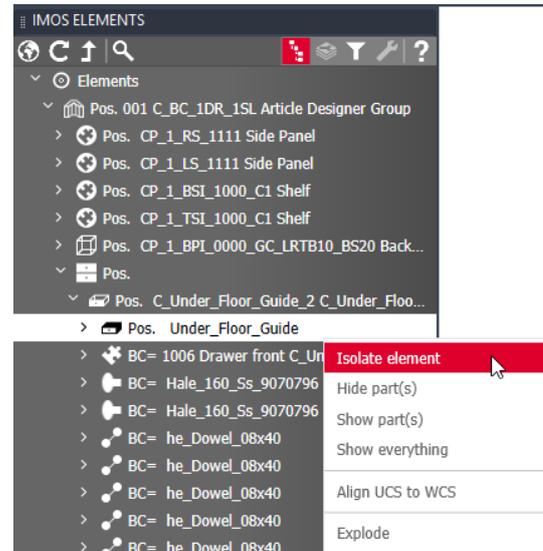
Now your drawer should contain the entered connectors and their machining.





Tip

The display of the drawer above appears when you select the parts of your drawer and then isolate them (Context menu opens by right-clicking on the selected element in the imos Elements → Isolate element → Move mouse in the drawing area).



6.2.4.4 Task

Task



Before getting to know the further setting options in the Article Designer, check how your article responds to the different height and depth dimensions during the entry. Only drawers with the defined dimensions mentioned in chapter in “7.1.1” are generated. Note that the insertion zone is divided in the relation 2:1 by the bottom and the top drawer.

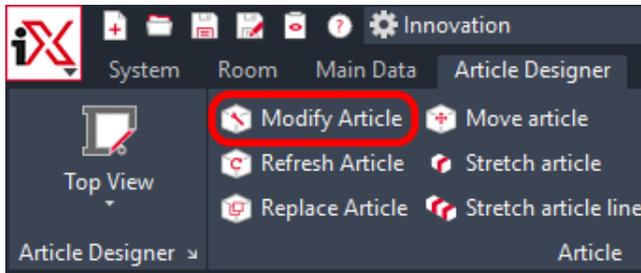
- Cabinet dimension: H= 500mm; D= 500mm
- Drawer dimension: H= 300mm and D= 440mm

Set the deviating cabinet dimension and evaluate your result.

7. Further Setting Options in the AD

First show all elements of your article in the drawing area again (Right-click in drawing area → Isolate → Show Elements).

For getting to know more setting options for drawers, open the tab “**Article Designer**” again and select “**Modify Article**”.

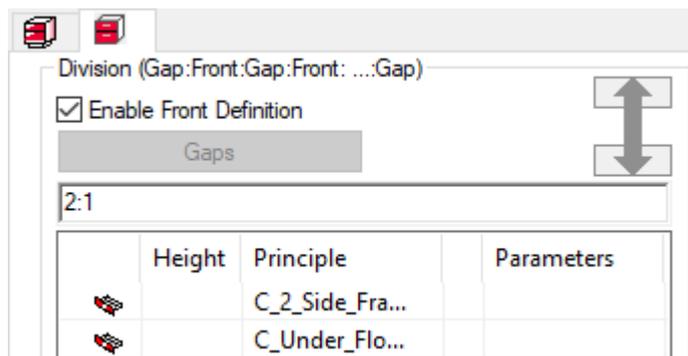


Select the article from one of the drawer fronts. The Article Designer opens, and the selected drawer is directly presented for modifying.

Hint

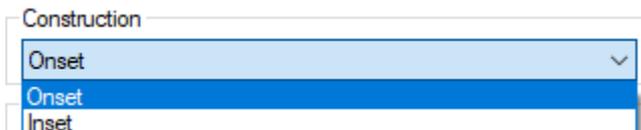
All setting options described in this exercise are for all drawers which have been defined in an insertion zone via the division in the text field. If you want to apply one of these settings for only 1 drawer, then you are only allowed to construct 1 drawer per insertion zone.

Separate insertion zones can be created for every individual drawer by inserting virtual dividers.



7.1.1 Construction

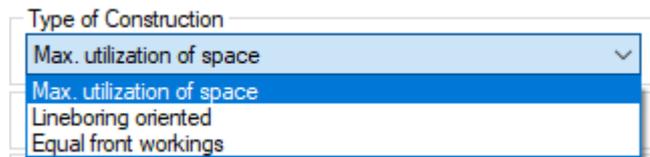
In the area “**Settings**” under “**Construction**” you can define if the drawer should be constructed onset or inset.



With this adjustment the dimensions of the insertion zone change and therefore it is possible that the program sets up another drawer size and the C-Scan inserts another connector set.

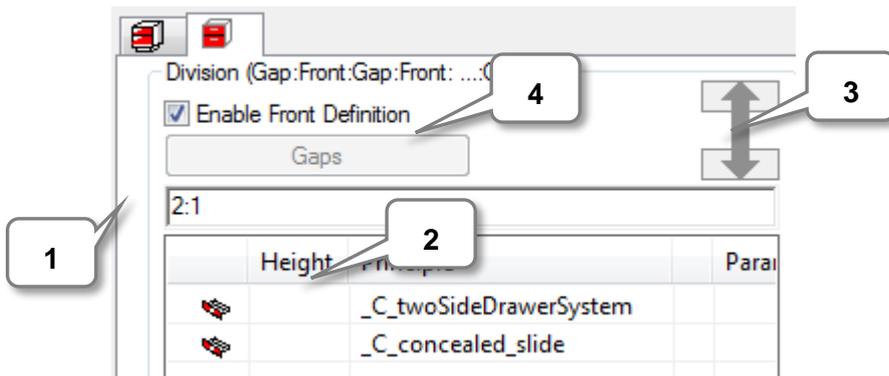
7.1.2 Type of Construction

In the area “**Settings**” under “**Type of Construction**” you can set how the drawers should be generated according to the conditions.



Depending on the setting, the drawers are differently generated.

7.1.3 Gap Dimension and Front Reveals

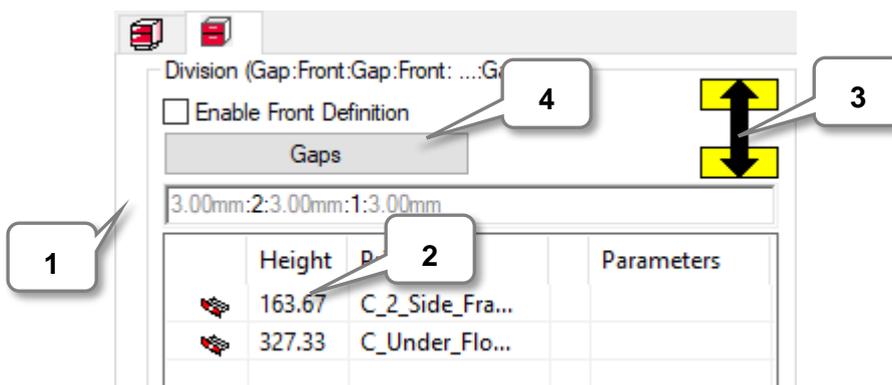


As long as the checkmark is set on “**Enable Front Definition**”, the gap dimensions and front reveals are used from the currently valid Design Parameters.



The term “**Front Definition**” can be set the same as the term “**Design Parameter**”.

Remove the checkmark next to “**Enable Front Definition**”.



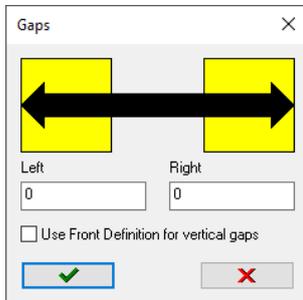
This means that the Design Parameter for the drawers of this insertion zone is not more valid and the horizontal and vertical gaps and front reveals must/can be manually defined.

Compare the modifications in both screenshots above:

- The drawer division only contains editable gap dimensions (1)
- The height of the front is exactly indicated (2)
- The symbol for the horizontal gaps is shown (3)
- The button “**Gaps**” for setting the vertical gaps is selectable (4)

Click on the button “**Gaps**” (4) for setting the vertical gaps. The setting dialog appears for the front reveals left and right.

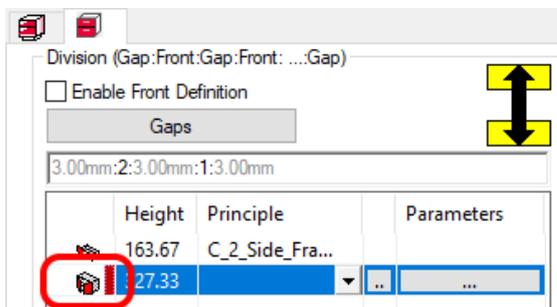
Here you can enable the Design Parameter (=Front Definition) for the vertical gaps (without reference to the horizontal gaps) again or define special front reveals right and left.



As drawers are only positioned one above the other, the definition of vertical gaps is not necessary.

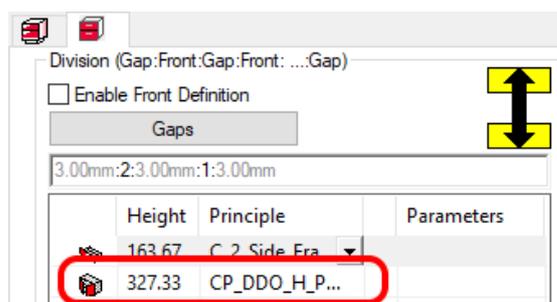
7.1.4 Door or Flap instead of Drawer

With disabled Front Definition you can replace a drawer principle with a Front-CP. For example, a door or a flap defined in their dimensions by the drawer division can be inserted in a Front Definition.

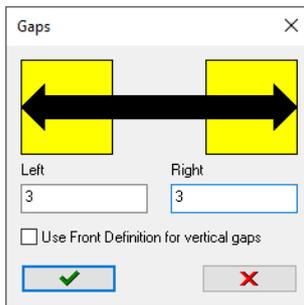


Click several times on the desired drawer symbol so that it can switch back and forward between “**Drawer**” and “**Door**”.

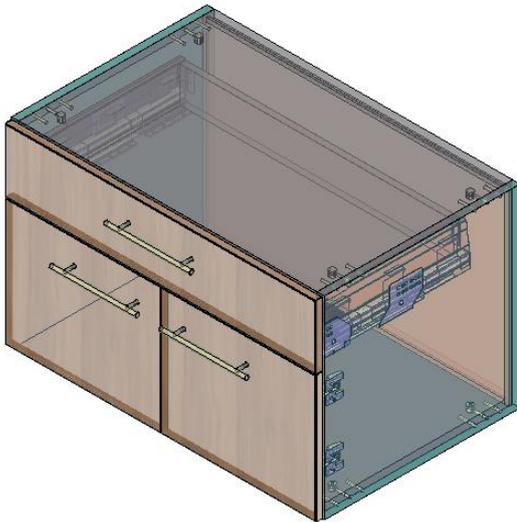
If the symbol shows a door, you can assign a door or a Flap-CP by clicking on the small 3-Point-Button. Select “**CP_DDO_H_PT_FD**”



Additionally you have to enter a value for the gaps.



As a result, you obtain an article with a **double door** instead of a full extension runner, with dimensions correspond to the set front definition.



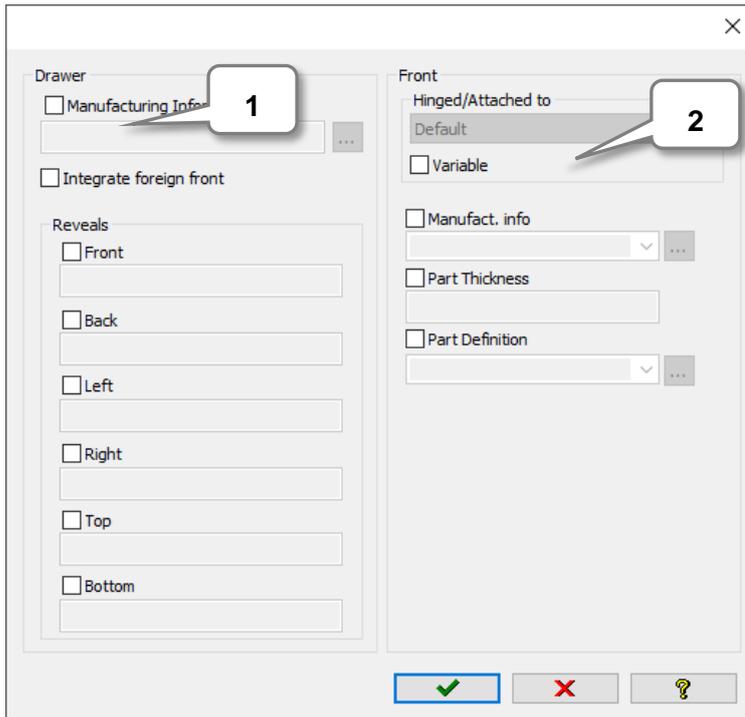
8. Additional Setting Options per Drawer

By clicking on the right 3-Point-Button, a dialog opens where further details to the drawer can be stored.

	Height	Principle	Parameters
		C_2_Side_Fra...	
		C_Under_Flo..	

The left column (1) contains further setting options for every individual drawer which article-specifically overwrites or adds the settings from the drawer principle. This may save creating separate drawer principles for single articles.

In the right column (2) if you have inserted a door or flap instead of a drawer described in the chapter “7.1.4 Door or Flap instead of a drawer” above, you can overwrite the characteristic values of the selected Front- CPs.



9. Refresh Article in the Drawing area

Set your article so that it uses both new created drawer principles and leave the Article Designer towards drawing area.

