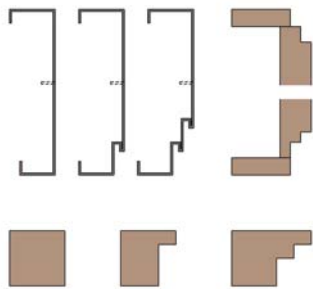


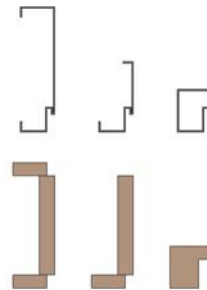
## DOOR MANUAL



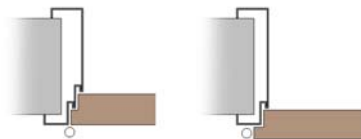
### DOOR FEATURES OVERVIEW



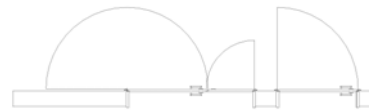
FRAME  
REBATES



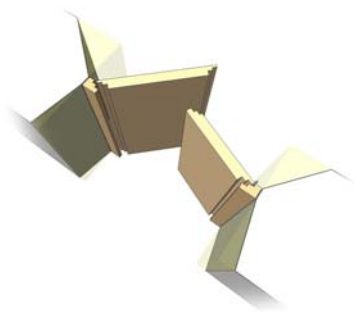
FRAME  
TYPES



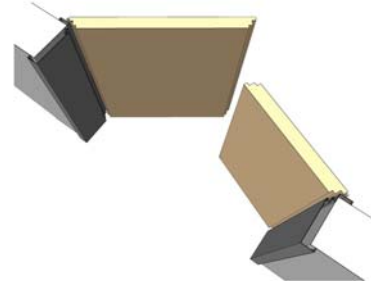
DOOR  
FLUSH



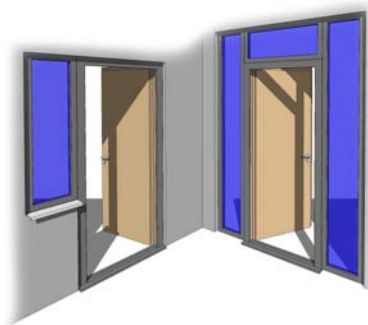
SYMBOL  
LINES



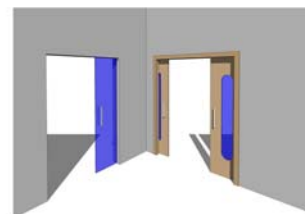
WOOD  
FRAME



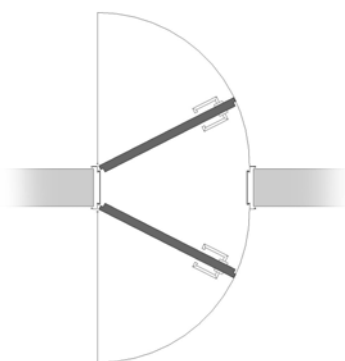
METAL  
FRAME



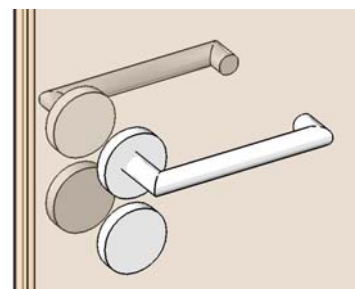
SIDE  
LIGHTS &  
TRANSOM



PANEL  
GLAZING



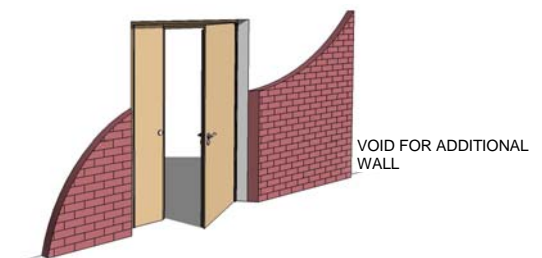
DOUBLE  
PANEL



DOOR  
ACCESSORIES

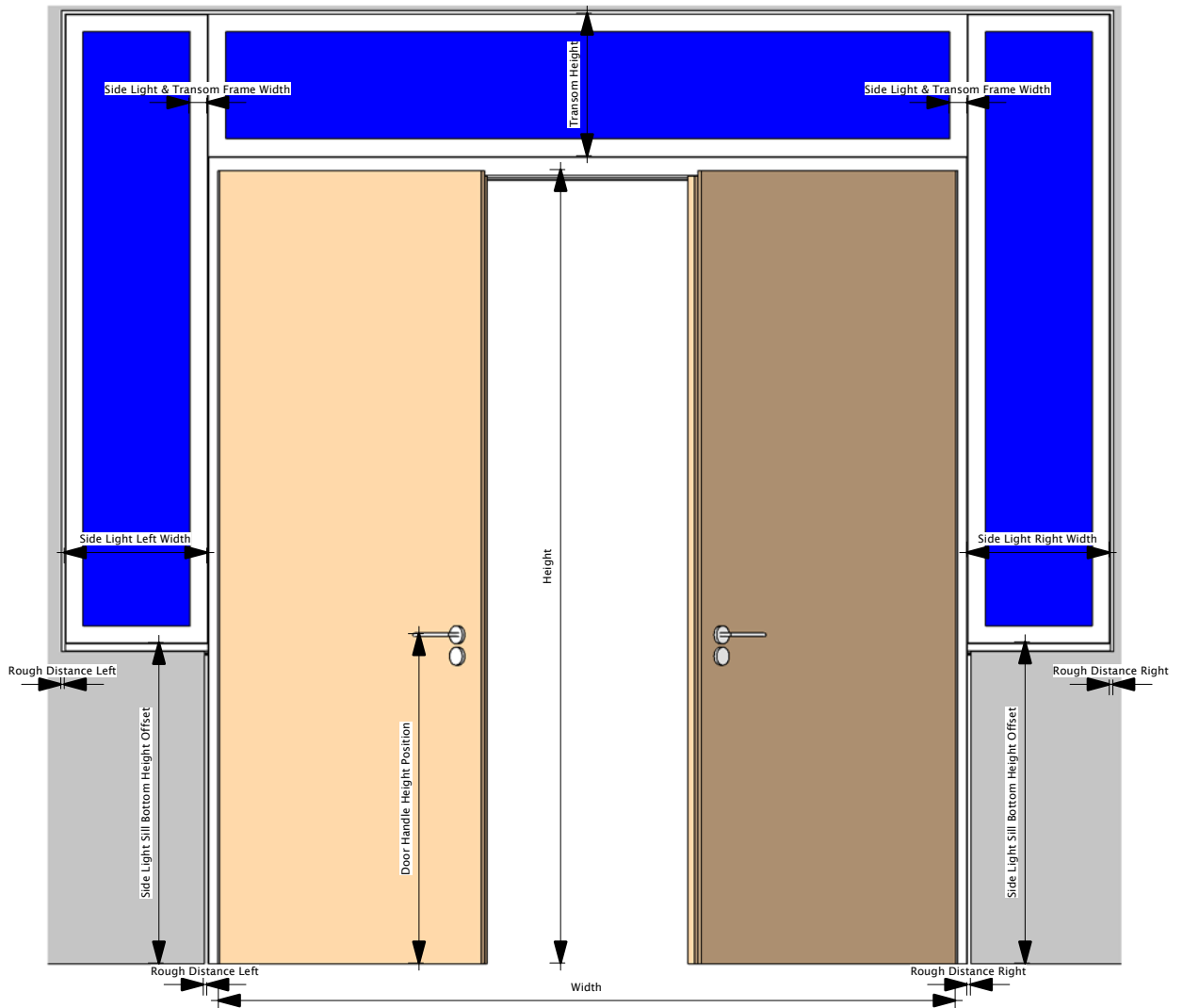
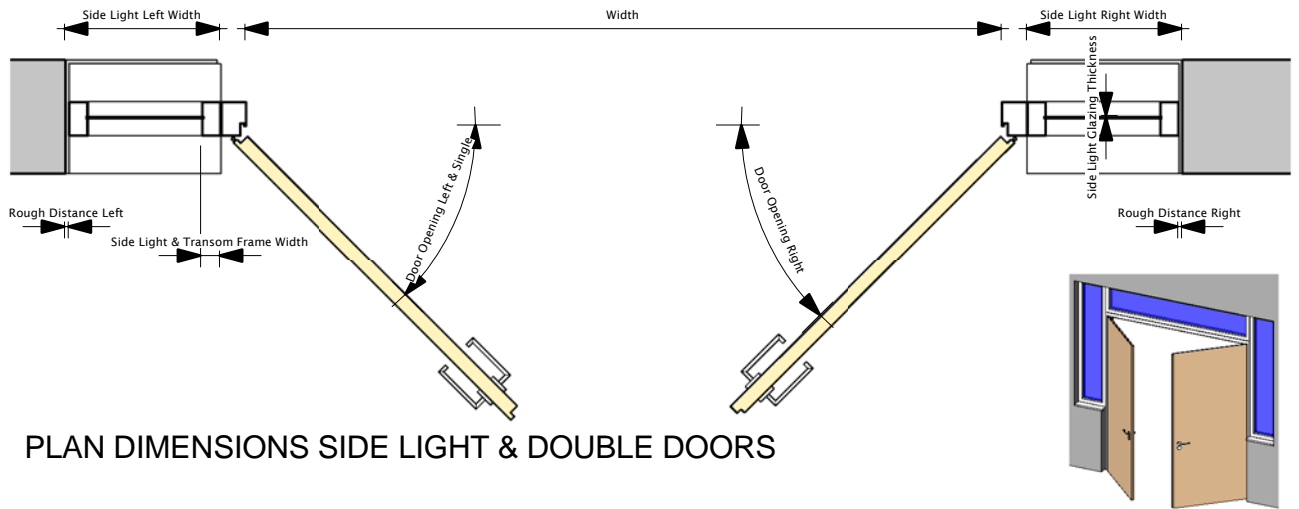


DOOR  
TYPES

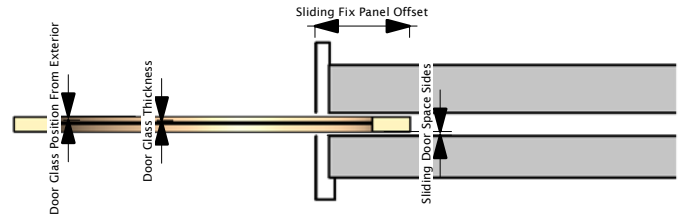
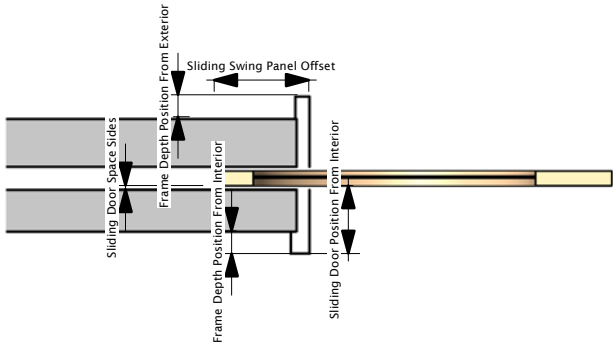


VOID FOR  
ADDITIONAL  
WALL

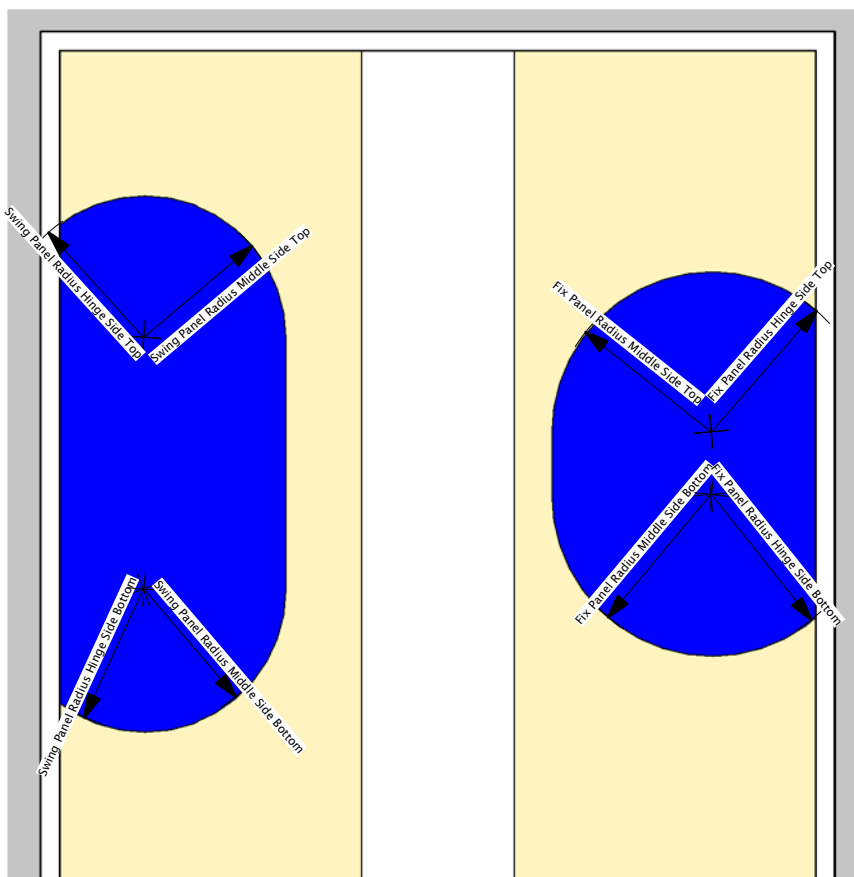
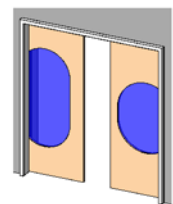
**DIMENSIONS OVERVIEW**



DIMENSIONS OVERVIEW

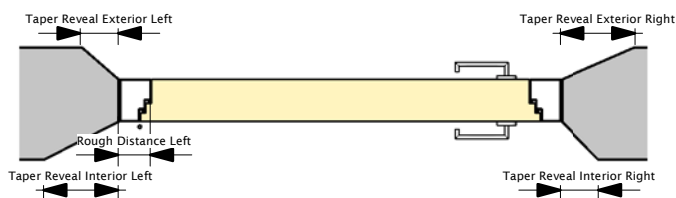


PLAN DIMENSIONS SLIDING DOORS

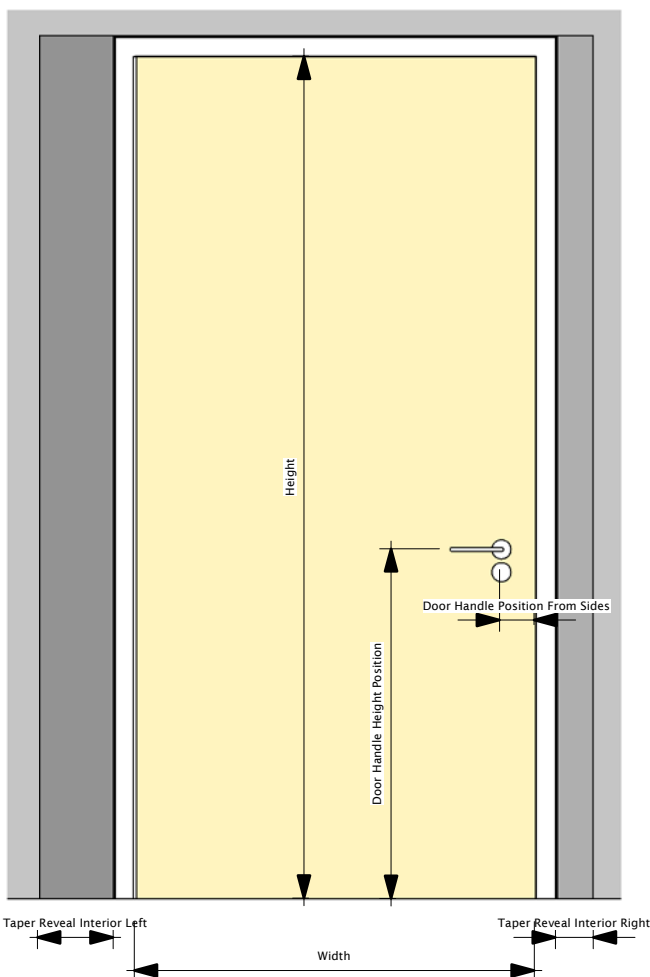
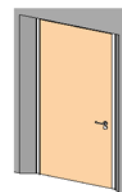


ELEVATION DIMENSIONS SLIDING DOORS & OPENING

## DIMENSIONS OVERVIEW

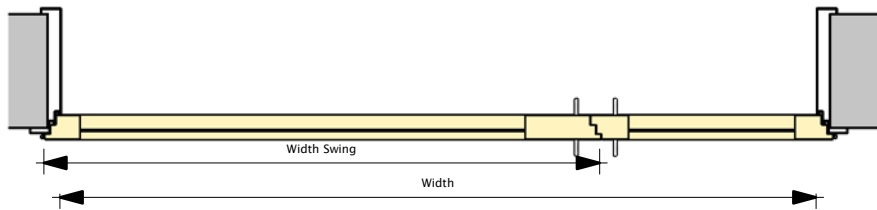


### PLAN DIMENSIONS TAPERED REVEALS

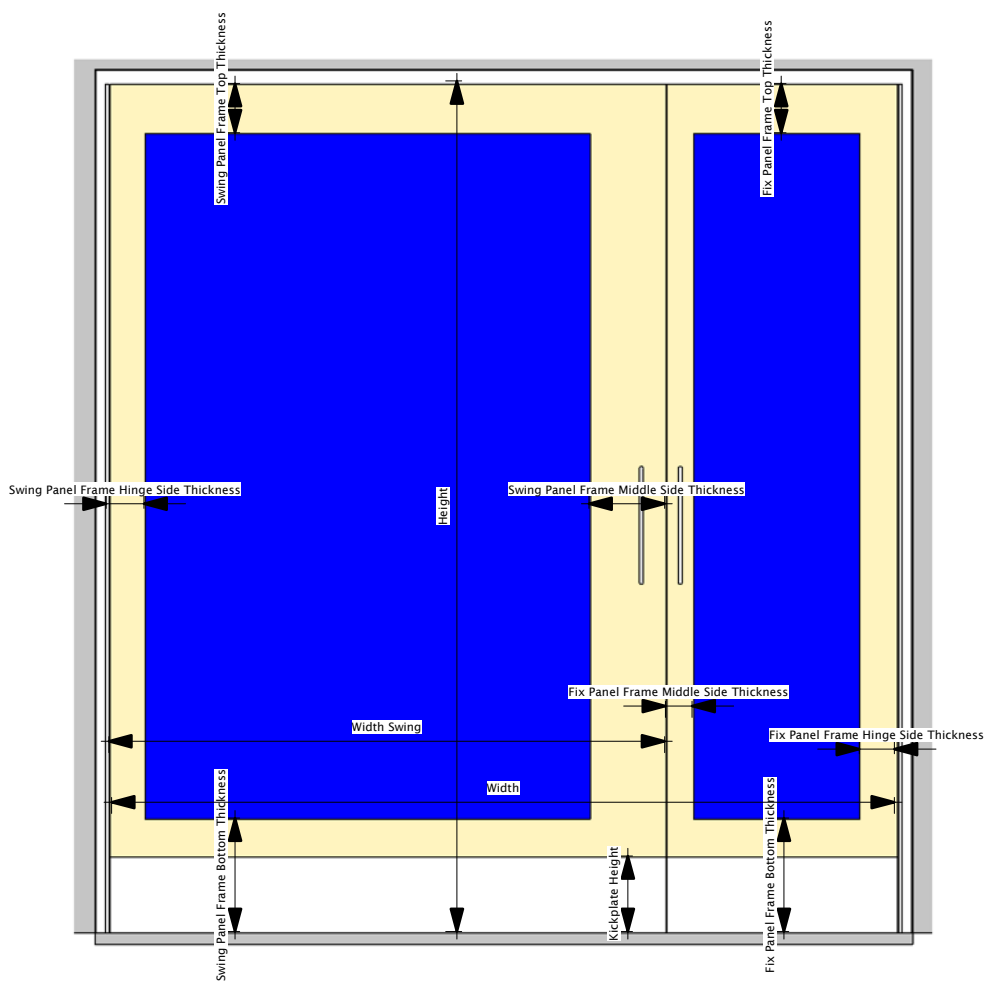
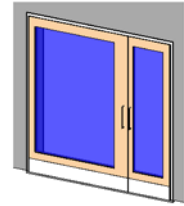


### ELEVATION DIMENSIONS TAPERED REVEALS

**DIMENSIONS OVERVIEW**

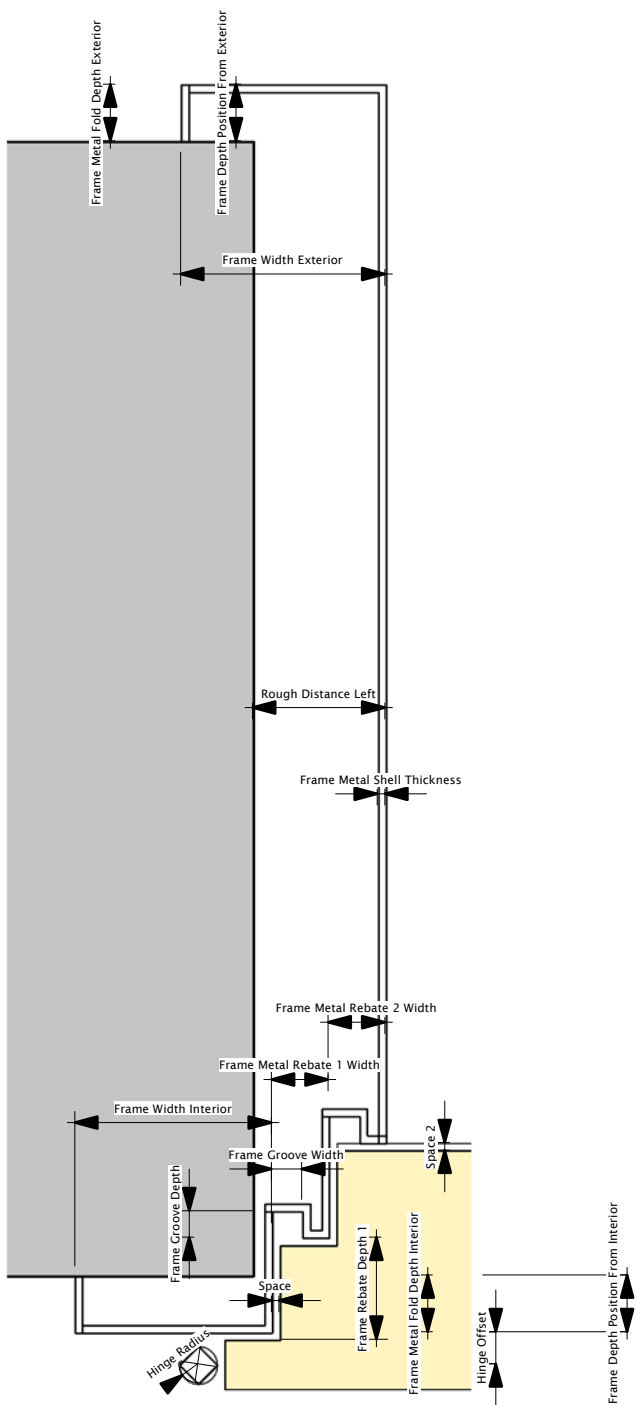


**PLAN DIMENSIONS DOUBLE DOORS**

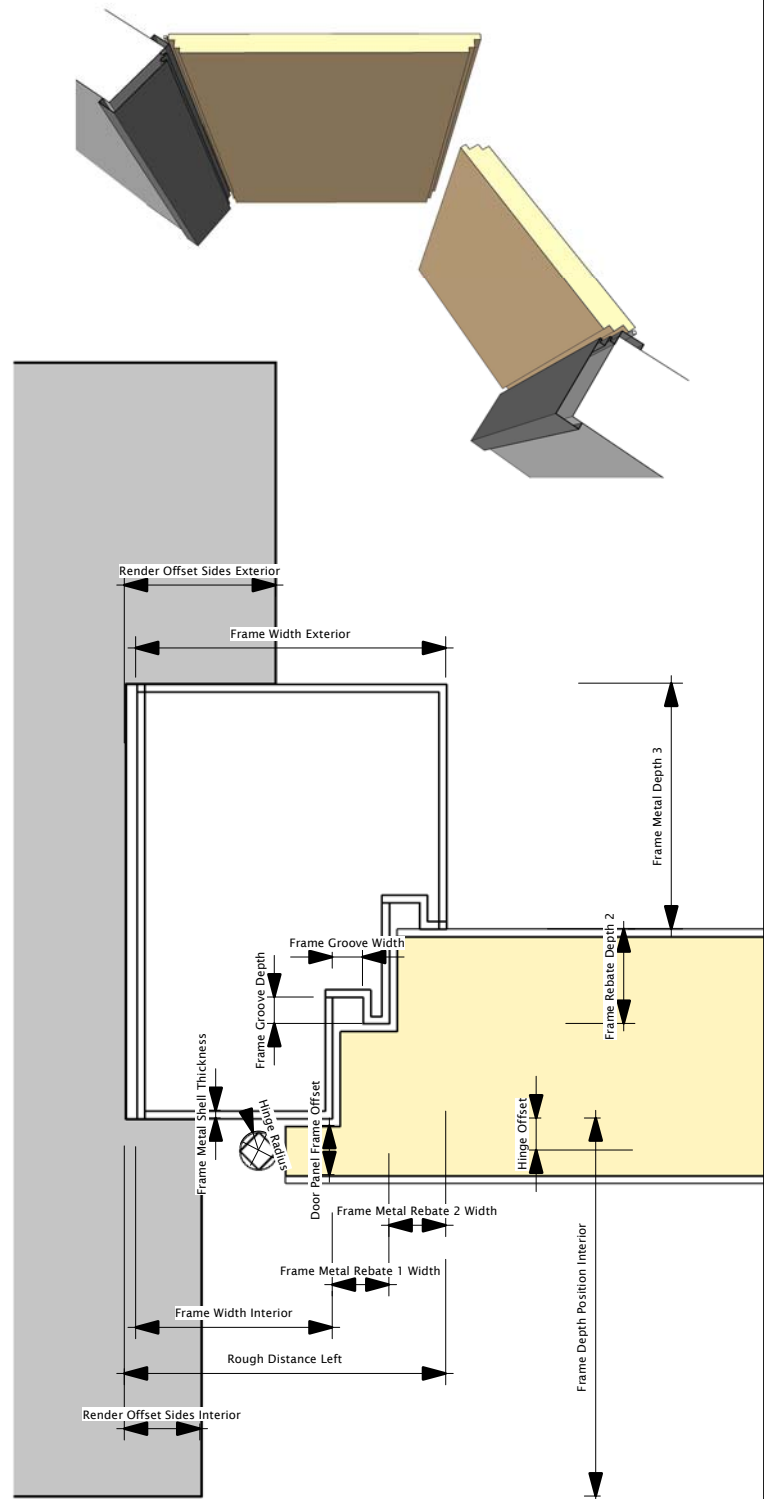


**ELEVATION DIMENSIONS DOUBLE DOORS & GLAZING OPENING**

## DIMENSIONS OVERVIEW

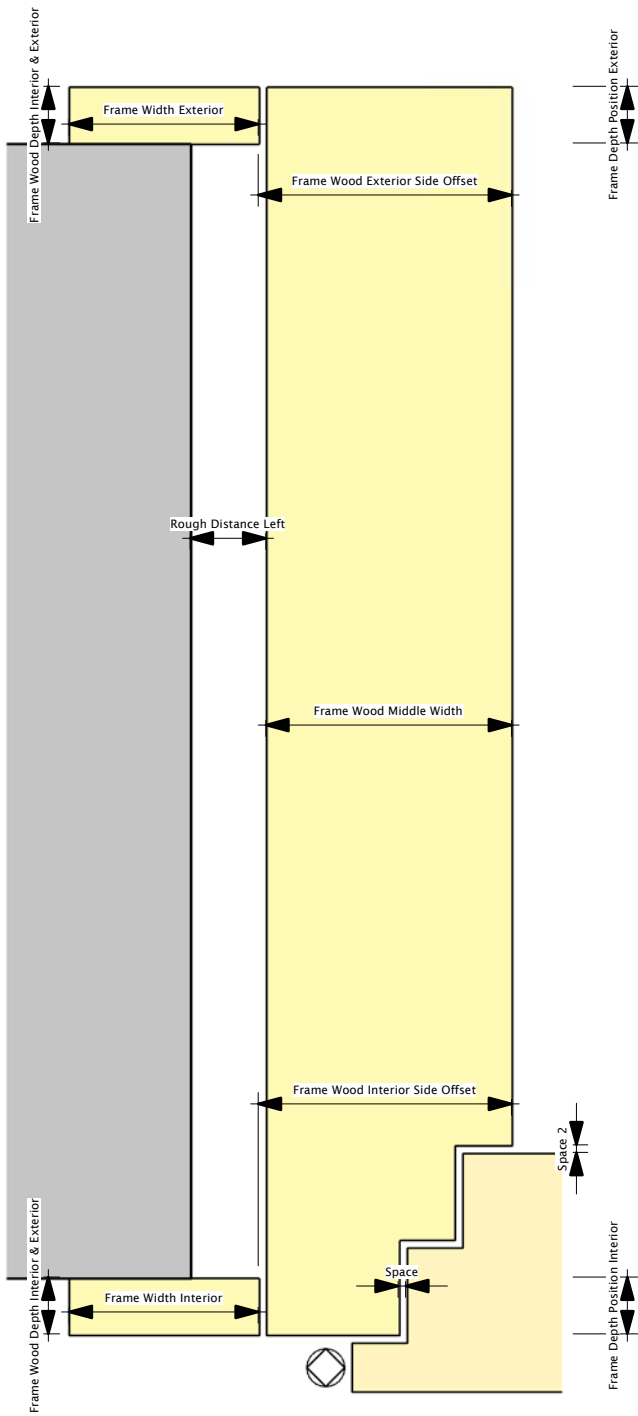


PLAN DETAIL OF METAL FRAME TYPE 1

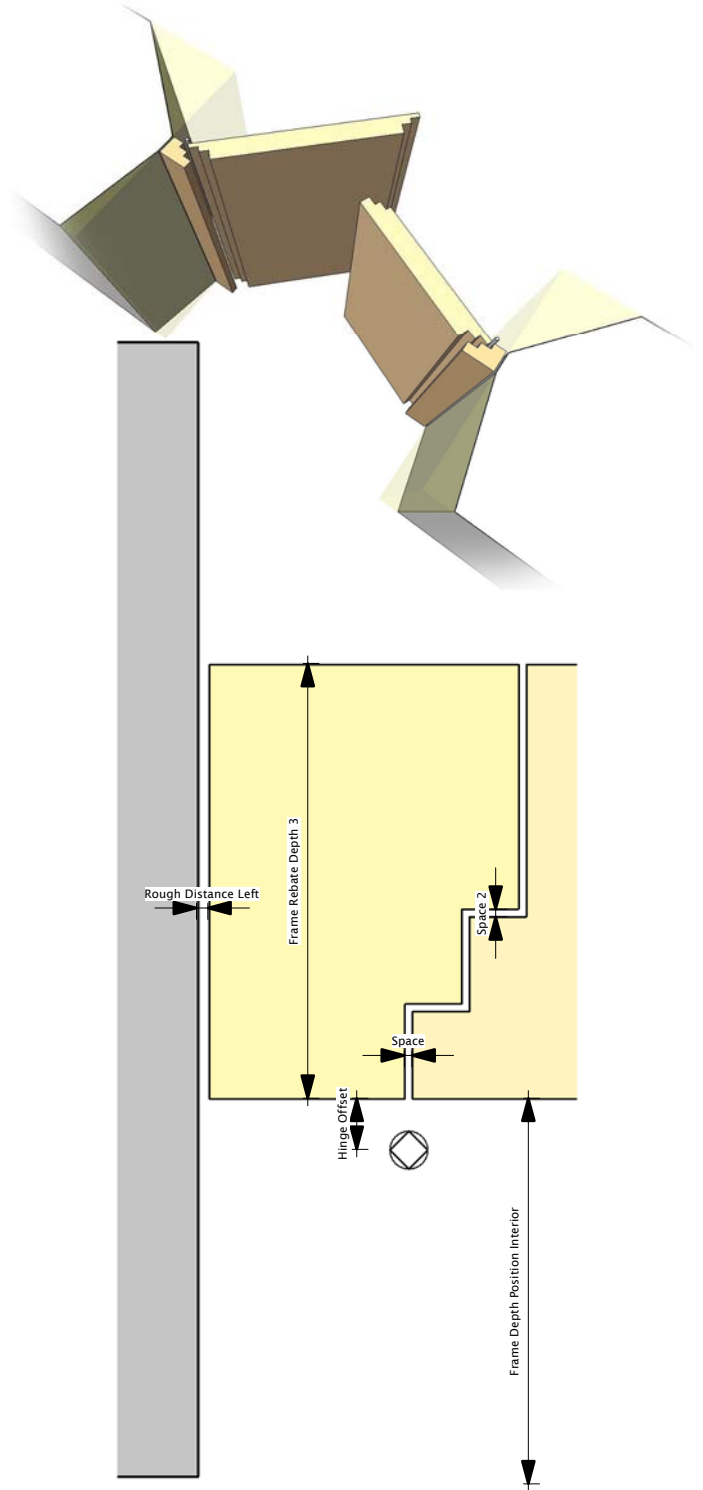


PLAN DETAIL OF METAL FRAME TYPE 3

DIMENSIONS OVERVIEW



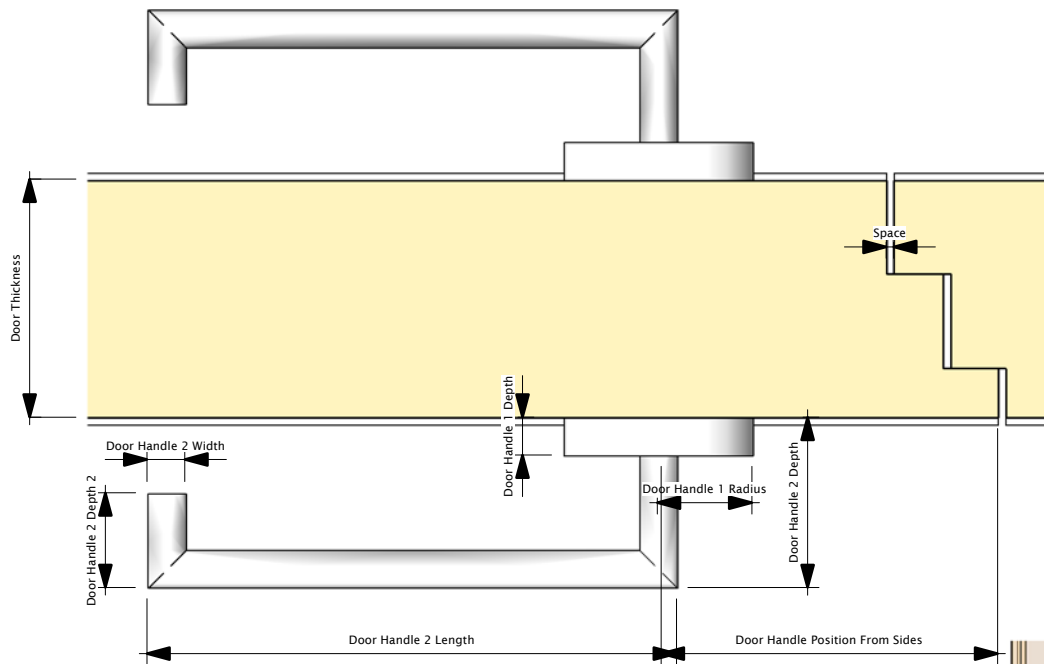
PLAN DETAIL Of WOOD FRAME TYPE 1



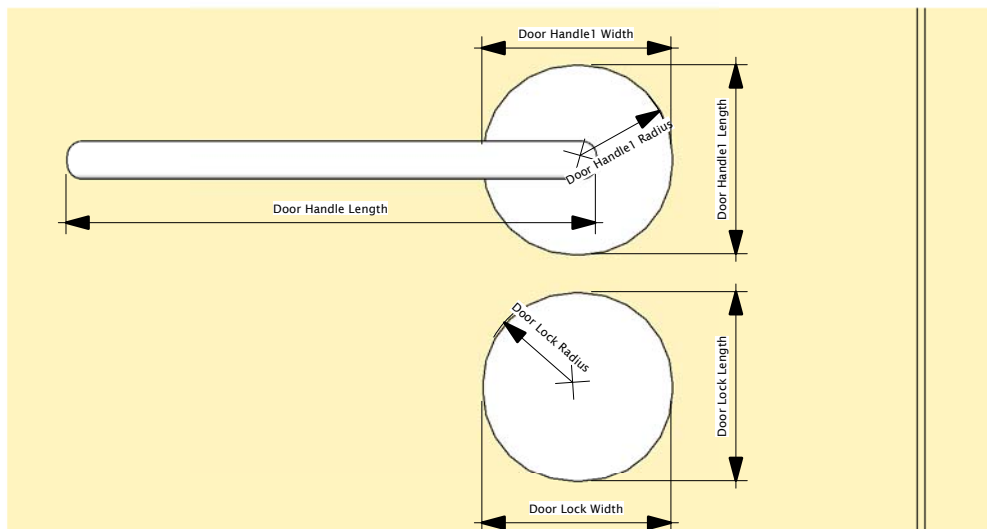
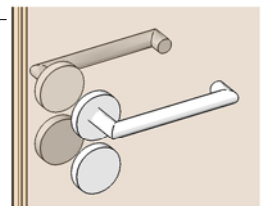
PLAN DETAIL Of WOOD FRAME TYPE 3



DIMENSIONS OVERVIEW

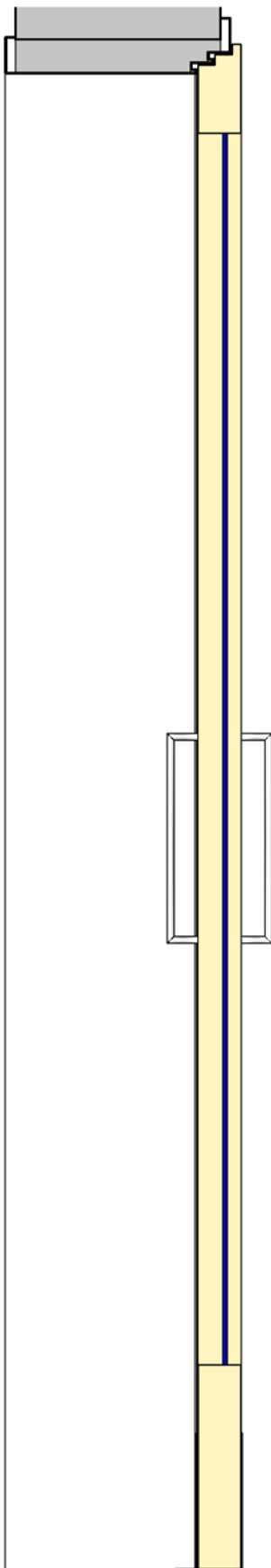


PLAN DETAIL OF HANDLE

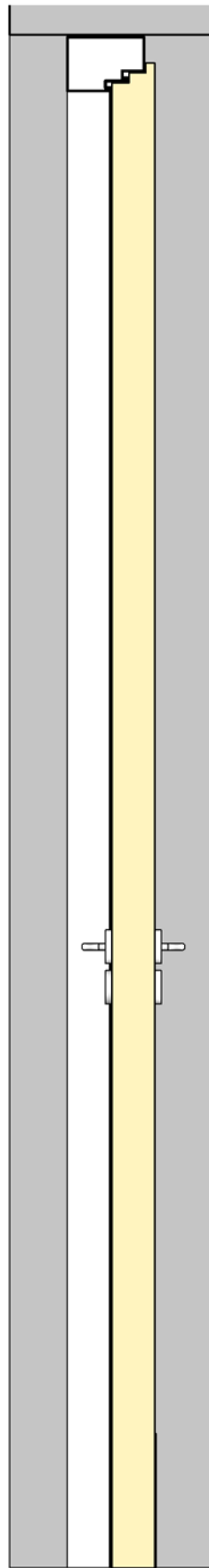


ELEVATION DOOR ACCESSORIES

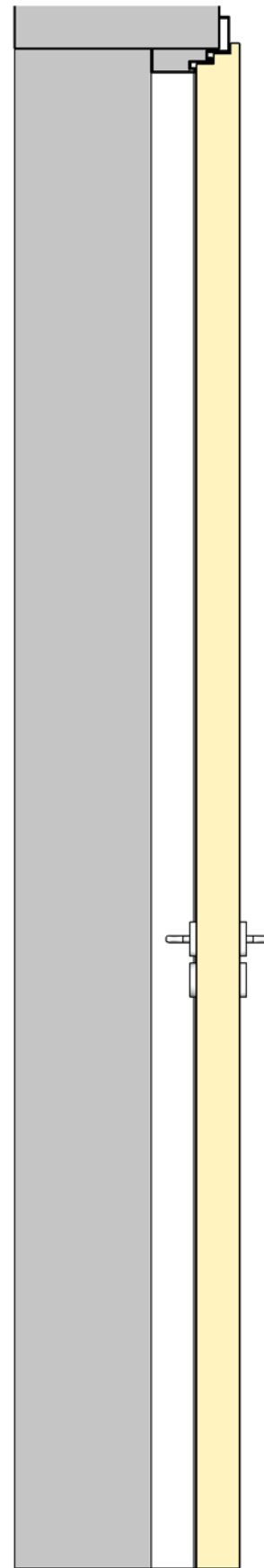
SECTION OVERVIEW



Section 1 Closure Frame



Section 2 Block Frame



Section 3 Corner Frame

FIG 1

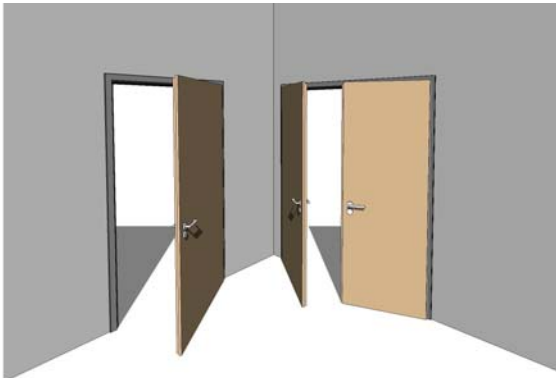


FIG 2

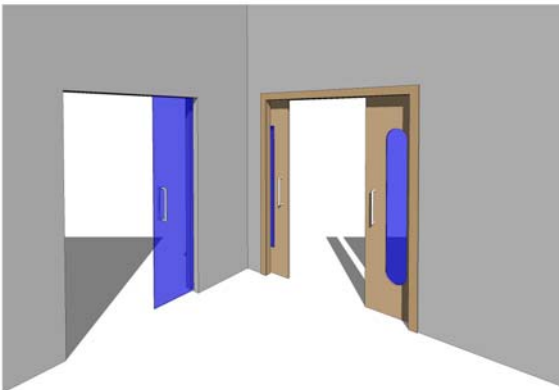


FIG 3



## How To Create Double & Single Doors

In the Type Parameters under:-

### Graphics

The tick box that needs to be selected is:-  
**DOUBLE DOOR**

If the Tick Box **DOUBLE DOOR** is selected,  
The Result is shown as a Double Swing Door as shown in Fig 1  
If unselected, The Result is shown as a Single Swing Door as shown in Fig 1

### Dimensions

You can specify and control the panel width with the Parameters **WIDTH SWING**.  
This parameter lets you control the width of the Left panel when **DOUBLE DOOR** is selected.  
When the width of the left panel is adjusted the right panel changes its width accordingly.  
You can adjust the **WIDTH SWING** so that you have a result of the left panel to have an equal or greater width to the right panel.

Please Note when adjusting the **WIDTH** of the panel when double doors, the **WIDTH SWING** has to be adjusted accordingly as the value you put in for this parameter stays fix and the right panel adjusts to the remaining width of the clear **WIDTH** opening. The **WIDTH SWING** value needs to be more than 300mm.

The single door is adjusted by the parameter **WIDTH** and adjusts automatically to the width of the opening and the right door disappears

If **DOUBLE DOOR** is unselected which results in a single swing panel than the parameter **WIDTH SWING** does not need to be adjusted.

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## How To Create Single & Double Sliding Doors

In the Type Parameters under:-

### Graphics

The tick box that needs to be selected is:-  
**SLIDING DOOR**

If the Tick Box **SLIDING DOOR & DOUBLE DOOR** is selected, The Result is shown as a Double Sliding Door as shown in Fig 2  
If **DOUBLE DOOR** unselected, the result is shown as a Single Sliding Door as shown in Fig 2

### Dimensions

The Additional parameters that you can control for the sliding doors are:-  
**SLIDING SWING PANEL OFFSET & SLIDING FIX PANEL OFFSET**

These parameters let you control the amount of offset you require for the door to be within the cavity left & right. If the parameter is adjusted to zero, the door will be the same size as the opening width. If you adjust this parameter to 50mm, the door will have an offset of 50mm in to the cavity.

**SLIDING DOOR SPACE SIDES**  
This parameter lets you control the space between the Door Panel and the Cavity. Adjusting this parameter to zero will result with no space, if adjusted to 5mm there will be a space of 5mm between the panel and the cavity.

### SLIDING DOOR POSITION FROM INTERIOR

This parameter lets you control the position of the door from the interior.  
You can create a door which is either on the internal surface of the wall just by adjusting this parameter to zero or have an offset to have the sliding doors center of the wall.  
Please refer to page 4 of 15 Plan View By adjusting the parameter **FRAME DEPTH POSITION FROM INTERIOR** you can create the position of the sliding door to flush with the interior of the wall or have the position on the external surface of the wall.

Please note that the parameter **WIDTH SWING** adjust when Sliding Door & Double Door is activated

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## How To Create Transom Window & Side Lights

In the Type Parameters under:-

### Graphics

The tick boxes that need to be selected are:-  
**SIDE LIGHT LEFT VISIBILITY, SIDE LIGHT RIGHT VISIBILITY & TRANSOM WINDOW VISIBILITY**

If the Tick Box **SIDE LIGHT LEFT VISIBILITY, SIDE LIGHT RIGHT VISIBILITY & TRANSOM WINDOW VISIBILITY** are selected,  
The Result is shown as Fig 3  
If unselected, The Result is shown without any Sidelight or Transom.

### Dimensions

The Additional parameters that you can control for the Side Lights and Transom Window are:-  
**SIDE LIGHT & TRANSOM INTEGRATED**

If selected, this Parameter allows you to have a Side Light which has a separate frame from the door to a integrated frame to the door.

### SIDE LIGHT SILL VISIBILITY

This parameter lets you control the visibility of the internal & external sill.  
The parameters for these sills are explained below

### SIDE LIGHT SILL BOTTOM HEIGHT OFFSET

This parameter lets you control the height of the Side Light Sills

### SIDE LIGHT & TRANSOM FRAME WIDTH

**SIDE LIGHT LEFT WIDTH, SIDE LIGHT RIGHT WIDTH & TRANSOM HEIGHT**

### SIDE LIGHT EXTERNAL SILL PLATE HEIGHT

### SIDE LIGHT EXTERNAL SILL DEPTH

### SIDE LIGHT EXTERNAL SILL ANGLE

### SIDE LIGHT INTERNAL SILL HEIGHT

### SIDE LIGHT INTERNAL SILL DEPTH

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## Openings

The parameters **DOOR OPENING LEFT & SINGLE** is for the left door as shown in **Dimensions overview page 2 of 15**  
When you untick **DOUBLE DOOR** the result is a Left single swing door which the parameter **DOOR OPENING LEFT & SINGLE** is used for.

To create a Right single swing door, there is a flip control switch as shown In plan. This will flip the Door to give a result of a Right single swing door which the same parameter is used to open and close the swing door.

The parameters **DOOR OPENING RIGHT** is for the Right door. When you tick **DOUBLE DOOR** the result is a Right swing door which the parameter **DOOR OPENING RIGHT** is used for

Please note that these parameters are not angle parameters but are integer percentage parameters.

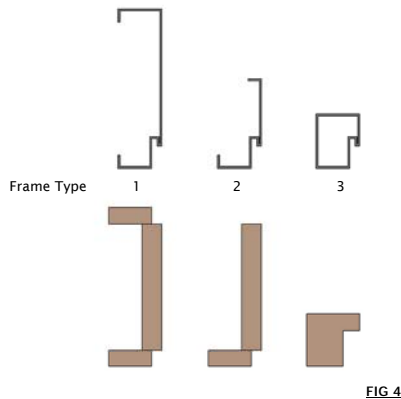


FIG 4

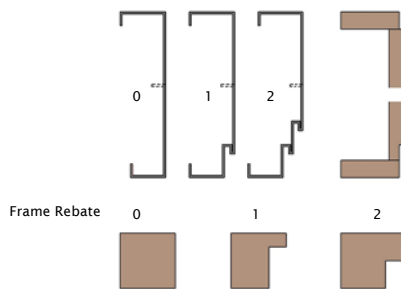


FIG 5

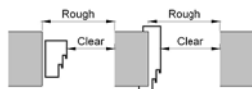


FIG 6

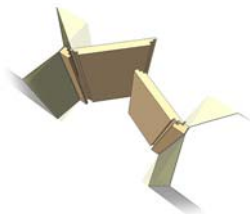


FIG 7

FIG 8

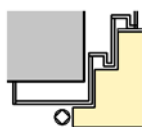
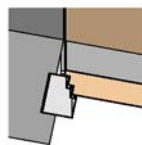
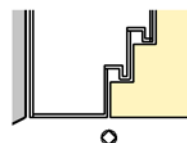


FIG 9

FIG 10



## How To Create Frame Types & Frame Rebates

In the Type Parameters under:-

### Graphics

To change the Frame Type or Frame Rebate the parameters are:-  
*FRAME TYPE & FRAME REBATE*

The *FRAME TYPE* has 3 Types as shown in Fig 4

Frame Type 1= Closure Frame  
Frame Type 2= Corner Frame  
Frame Type 3= Block Frame

Frame Type 1 which is a Closure Frame, closes the depth of the wall or can be flush with the wall on the interior and exterior. The Parameter which controls the positions are:- *FRAME DEPTH POSITION INTERIOR & FRAME DEPTH POSITION EXTERIOR* Please refer to page 4 of 15 Plan View. By adjusting the parameter *FRAME DEPTH POSITION FROM INTERIOR*. You can have a negative value which results in the frame adjusting outwards, or have a zero value to have the frame flush with the walls, or have a positive value which results in the frame adjusting inwards.

Frame Type 2 which is a Corner Frame sits on the Interior corner of the wall

Frame Type 3 which is a Block Frame sits anywhere in the middle of the wall. The Parameter which controls the position of the Block Frame is *FRAME DEPTH POSITION INTERIOR*

The *FRAME REBATE* can have up to 2 Rebates as shown in Fig 5

Frame Rebate 0 = No Rebate  
Frame Rebate 1 = One Rebate  
Frame Rebate 2 = Two Rebates

The Frame Rebates can be used along with all frame types apart from the Sliding Doors which automatically adjust to Frame Type 1 and the Side Lights setups and Transom window automatically adjust to Frame Type 3.

These Frame Types can be adjusted to either Wood Frame or Metal with a click of a button enabling *WOOD FRAME*

All parameters for frame types, frame rebates and positioning have the same parameters for both Wood frame & Metal frames

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## Rough Distance

In the Type Parameters under:-

### Dimensions

To Have a Rough Distance from the Clear Width the parameters are:-

*ROUGH DISTANCE LEFT, ROUGH DISTANCE RIGHT, ROUGH DISTANCE BOTTOM, ROUGH DISTANCE TOP, ROUGH DISTANCE BOTTOM INSTANCE*  
All These parameters can be adjusted separately as shown in Fig 6

Rough distance on each side is from the clear opening Width or Height as Shown in Dimensions overview page 2 of 15

This has to be manually adjusted. if you have a situation where you cannot see the frame, this is probably because the Rough Distance is set to zero. If you do not want the frame visible, there is a parameter which is called *FRAME VISIBILITY*. Unselect this tick box and adjust the Rough Distance on all sides to be 0 or a desired value

*ROUGH DISTANCE BOTTOM* is type related parameter for all types. *ROUGH DISTANCE BOTTOM INSTANCE* is related to one instance. Both Parameters have the same function. To extend the Bottom opening of the door for varying floor thicknesses you can adjust either parameters for one instance or all types.

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## How To Create Tapered Reveals & Render Offsets

In the Type Parameters under:-

### Dimensions

To Have Tapered Reveals the parameters are:-

*TAPER REVEAL INTERIOR LEFT, TAPER REVEAL INTERIOR RIGHT, TAPER REVEAL EXTERIOR LEFT, TAPER REVEAL EXTERIOR RIGHT, TAPER REVEAL INTERIOR TOP, TAPER REVEAL EXTERIOR TOP.*

All parameters can be adjusted separately as shown in Fig 7

To Have Render Offset the parameters are:-  
*RENDER OFFSET SIDES INTERIOR, RENDER OFFSET SIDES EXTERIOR, RENDER OFFSET TOP INTERIOR, RENDER OFFSET TOP EXTERIOR.*

as shown in Fig 8

Please note that the positioning of the frame will affect the reveals adjusting

These parameters also can be used on a joined wall Please refer to page 13 of 15 Fig 12 and notes

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## Hinges

The Hinge Position automatically disappear when Sliding Door is activated.

When *DOOR FLUSH* is selected the Hinge Position is automatically adjusted to the center of the space between the door and the Frame as shown in Fig 10.

When Door Flush is deactivated the Hinge Position repositions itself to the side of the panel which offsets from the frame and center as shown in Fig 9. The panel offset can be adjusted by using the parameter *PANEL FRAME OFFSET* only when the parameter *DOOR FLUSH* is not selected. These parameters can be adjusted in any Door setup

In the Type Parameters under:-

### Dimensions

To Adjust Hinges the parameters are:-

*HINGE RADIUS, HINGE OFFSET*

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## Door Flush & not Flush

### Graphics

When *DOOR FLUSH* is Selected as shown in Fig 10

When *DOOR FLUSH* is Deselected as shown in Fig 9

(PLEASE REFER TO DIMENSIONS OVERVIEW )

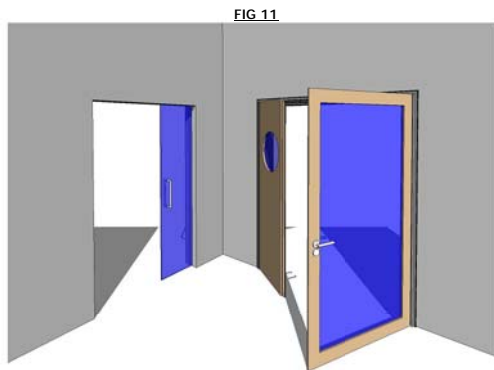


FIG 11

## How To Create Panel Glazing

In the Type Parameters under:-

### Graphics

To Create Panel Glazing, The parameters are:-  
*PANEL GLAZING VISIBILITY LEFT* , *PANEL GLAZING VISIBILITY RIGHT*  
When both Parameters are selected the result is shown as Fig 11

### Dimensions

Each door has its own parameters to adjust the Panel Glazing frame thickness and the radius for each corner of the panel frame  
The Parameters for the Left Door are:-

*SWING PANEL FRAME BOTTOM THICKNESS*, *SWING PANEL HINGE SIDE THICKNESS*,  
*SWING PANEL MIDDLE SIDE THICKNESS*, *SWING PANEL TOP THICKNESS*  
*SWING PANEL RADIUS HINGE SIDE TOP*, *SWING PANEL RADIUS HINGE SIDE BOTTOM*,  
*SWING PANEL RADIUS MIDDLE SIDE TOP* , *SWING PANEL RADIUS MIDDLE SIDE BOTTOM*

The Parameters for the Right Door are:-

*FIX PANEL FRAME BOTTOM THICKNESS*, *FIX PANEL HINGE SIDE THICKNESS*,  
*FIX PANEL MIDDLE SIDE THICKNESS*, *FIX PANEL TOP THICKNESS*  
*FIX PANEL RADIUS HINGE SIDE TOP*, *FIX PANEL RADIUS HINGE SIDE BOTTOM*,  
*FIX PANEL RADIUS MIDDLE SIDE TOP* & *FIX PANEL RADIUS MIDDLE SIDE BOTTOM*

To Create a door which is a fully glazed door without frames, switch off the parameters *PANEL GLAZING VISIBILITY LEFT* & *PANEL GLAZING VISIBILITY RIGHT* and set the door thickness to atleast 12mm & change the material from Wood to Glass as shown as Fig 11

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## Void For Additional Walls

In the Type Parameters under:-

### Dimensions

If you need to add an additional Wall (e.g. Dry-Lining) to join with the original wall. Create a new basic wall, change the properties as your specification and join the to original wall.  
To cut the new additional wall that has been added either to the interior or exterior of the original wall, adjust the parameters:-

*VOID INTERIOR OFFSET* or *VOID EXTERIOR OFFSET* to the thickness of the additional new wall added, the result will be a cut out of the new wall as shown in Fig 12

Please note that all parameters for tapered reveals and render offset can apply to new additional walls when the void is offsetted

(PLEASE REFER TO DIMENSIONS OVERVIEW )

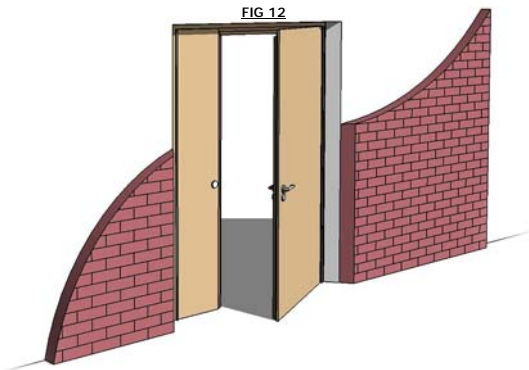


FIG 12

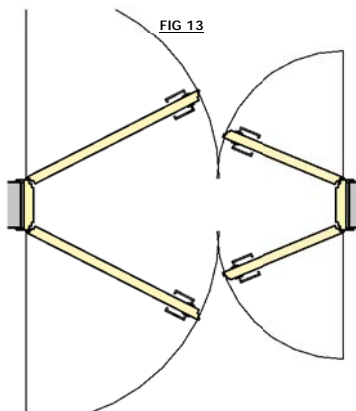


FIG 13

## How To Create Double Panel

In the Type Parameters under:-

### Graphics

You can setup a Double Panel Door for the Single and Double Swing Door as you might need for Hotel or Office Project where noise reduction is a subject. To Create Double Panel,

The parameters are:-  
*DOUBLE PANEL VISIBILITY* as shown as Fig 13

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## How To Create Symbol Lines

In the Type Parameters under:-

### Graphics

To Create Symbol Lines select the parameters in the instance properties box *SYMBOL LINES* the result will be Fig 14 & 15

All Symbol Lines will appear in Plan & Elevations

To have symbol lines adjusted to your local standards, showing the opposite side in elevation, adjust the parameter *SYMBOL LINES FROM HINGE SIDE* the result will show the symbol lines flipped only in elevation on the opposite side as shown in Fig 15

To Have Symbol Lines adjusting in plan view, select the parameter *SYMBOL LINES OPENING ANGLE SYNC*.

The symbol lines will adjust with the Parameters:-  
*DOOR OPENING LEFT* & *SINGLE* and *DOOR OPENING RIGHT*

If the parameter *SYMBOL LINES OPENING ANGLE SYNC* is unselected, the symbol lines will not adjust with the parameters *DOOR OPENING LEFT* & *SINGLE* and *DOOR OPENING RIGHT*.

They can be manually adjusted with the parameters under the Dimensions called *SYMBOL LINES OPENING ANGLE RIGHT* & *SYMBOL LINES OPENING ANGLE LEFT*. The Symbol lines will remain static at the position you require once adjusting, while you adjust the doors to a close position or a angle that you specify as shown in Fig 13

Please note that these symbol lines are shown in Coarse, Medium & Fine Modes and are ideally used in plan view with or without the Doors Visibility.

To switch off the Doors Visibility , under Graphics unselect the parameter *DOORS VISIBILITY*.

All doors for that type will be switched of and you will remain with the symbol lines showing. To switch of the symbol lines simply unselect the *SYMBOL LINES* parameter under Graphics, all Symbol lines will turn off.

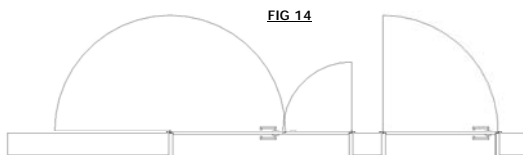


FIG 14

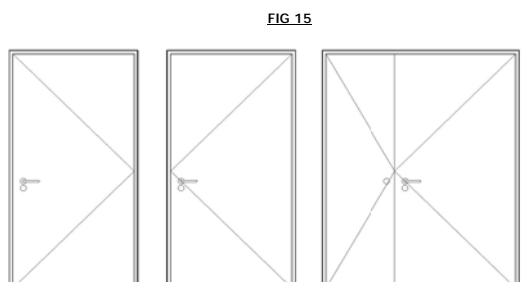
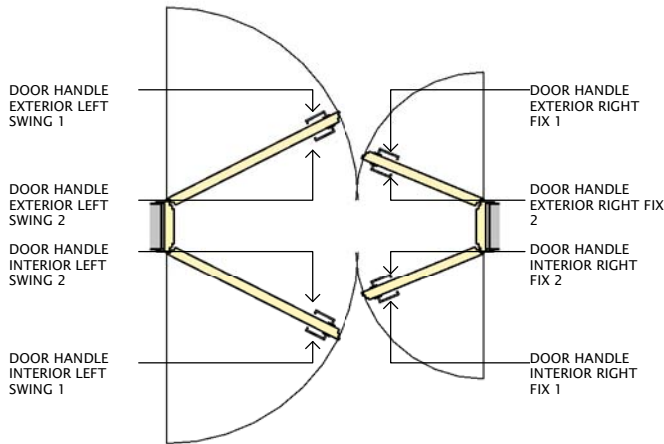


FIG 15

## Door Accessories



In the Type Parameters under:-

### Dimensions

All The accessories have Dimensions and are stated as below

**Door Knob Handle**  
 Door Handle 1 Length  
 Door Handle 1 Width  
 Door Handle 1 Depth  
 Door Handle 1 Radius

**Door Lever Handle**  
 Door Handle 2 Width  
 Door Handle 2 Depth  
 Door Handle 2 Depth 2  
 Door Handle 2 Radius  
 Door Handle 2 Angle  
 Door Handle 2 Height Postion

**Door Lock**  
 Door Lock Length  
 Door Lock Width  
 Door Lock Depth  
 Door LockRadius  
 Door Lock Height Position

**Kick Plate**  
 Kickplate Side Offset  
 Kickplate Height  
 Kickplate Thickness  
 Kickplate Bottom Offset

Door Handle Height Position  
 Door Handle Position From Sides

(PLEASE REFER TO DIMENSIONS OVERVIEW )

In the Type Parameters under:-

### Graphics

DOOR HANDLE INTERIOR LEFT SWING 1, DOOR HANDLE INTERIOR LEFT SWING 2, DOOR HANDLE INTERIOR RIGHT FIX 1, DOOR HANDLE INTERIOR RIGHT FIX 2  
 DOOR HANDLE EXTERIOR LEFT SWING 1, DOOR HANDLE EXTERIOR LEFT SWING 2, DOOR HANDLE EXTERIOR RIGHT FIX 1, DOOR HANDLE EXTERIOR RIGHT FIX 2

Each Integer parameter has the same visibility configuration on each sides of the door panels. When adjusting the integer parameter from 0 - 10 the results are the following:-

(PLEASE REFER TO DIMENSIONS OVERVIEW )

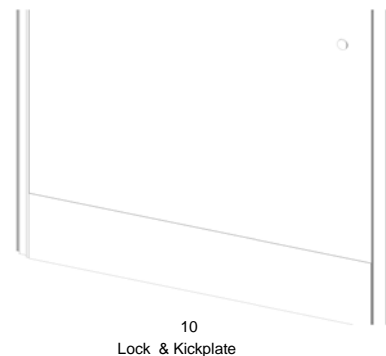
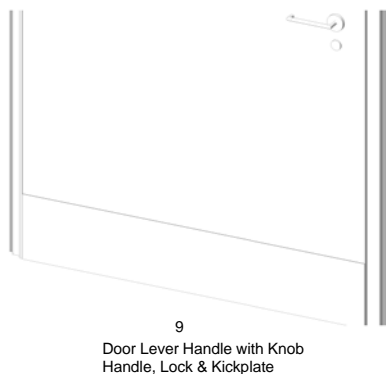
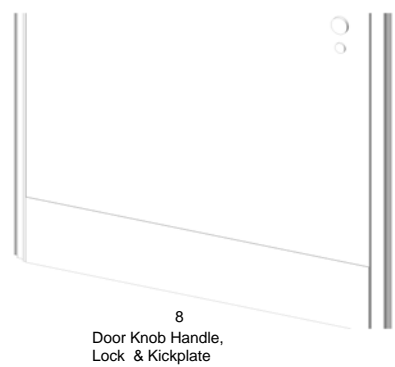
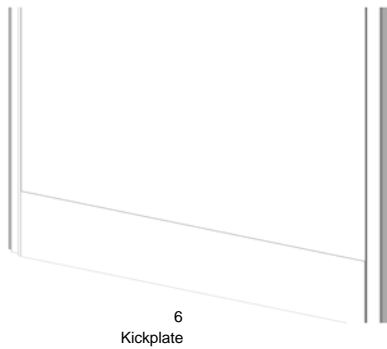
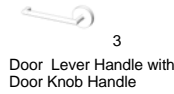


FIG 16

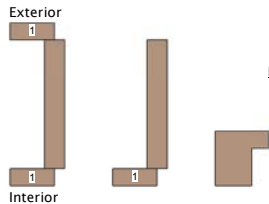
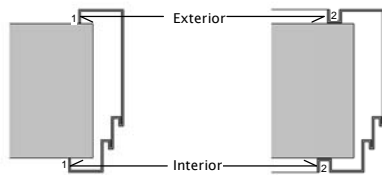


FIG 17

FIG 18

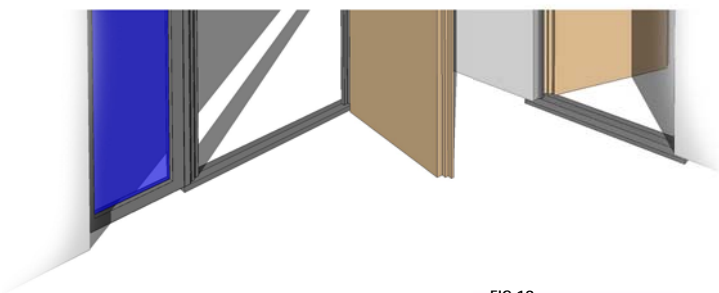


FIG 19

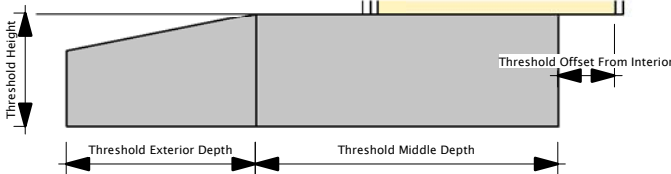


FIG 20

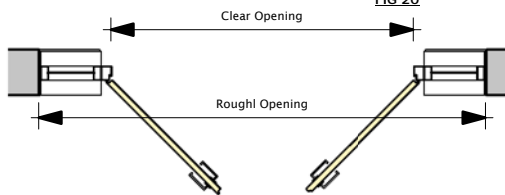
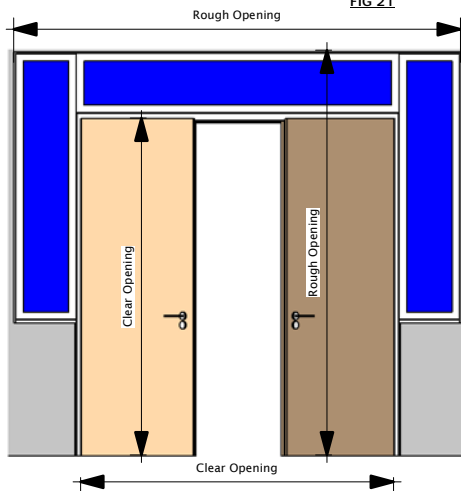


FIG 21



## Frame Fold Interior & Frame Fold Exterior

In the Type Parameters under:-

**Graphics**  
To Create Frame Folds, The parameters are:-  
*FRAME FOLD INTERIOR & FRAME FOLD EXTERIOR*

Each Integer parameter has the same visibility configuration on each sides.  
When adjusting the integer parameter from 0 - 2 the results are the following:-

**Metal Frame** as shown in Fig 16  
*FRAME FOLD INTERIOR*  
0 = No Fold  
1 = Fold  
2 = Shadow Gap

*FRAME FOLD EXTERIOR*  
0 = No Fold  
1 = Fold  
2 = Shadow Gap

**Wood Frame** as shown in Fig 17  
*FRAME FOLD INTERIOR*  
0 = No Fold  
1 = Interior Architrave

*FRAME FOLD EXTERIOR*  
0 = No Fold  
1 = Exterior Architrave

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## Threshold

In the Type Parameters under:-

**Graphics**  
To Adjust a Threshold, The parameter is:-  
*THRESHOLD*

When adjusting the integer parameter from 0 - 4 the results are the following:-

**THRESHOLD**  
0 = No Threshold  
1 = Interior & Middle Thresholds  
2 = Exterior & Middle Thresholds  
3 = Middle Threshold  
4 = Interior Middle & Exterior Thresholds

**Dimensions**  
Threshold Middle Height Offset  
Threshold Middle Depth  
Threshold Exterior Depth  
Threshold Interior Depth  
Threshold Height

(PLEASE REFER TO DIMENSIONS OVERVIEW )

## Clear Opening

In the Type Parameters under:-

**Graphics**  
To Adjust the opening, The parameter is:-  
*CLEAR OPENING*

If Selected The Parameter Height & Width represents the Clear Opening  
If Unselected The Parameter Height & Width represents the Rough Opening

When selecting the parameter *CLEAR OPENING* , the results is:-  
The Clear opening of the Height & Width of the door as shown in Fig 20 & Fig 21

When unselecting the parameter *CLEAR OPENING*  
The result is Rough Opening of the Height & Width as shown in Fig 20 & Fig 21

Please note that the dimension line in plan view which has the option of showing the height as well as the width, represents the value of the height when the parameter is selected and unselected to show the result of the Clear Height & Width or the Rough Opening Height & Width

(PLEASE REFER TO DIMENSIONS OVERVIEW )