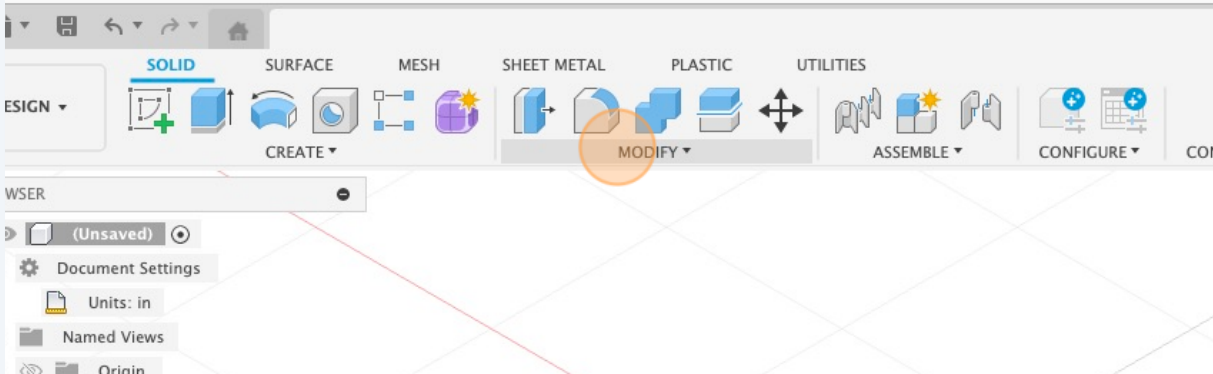


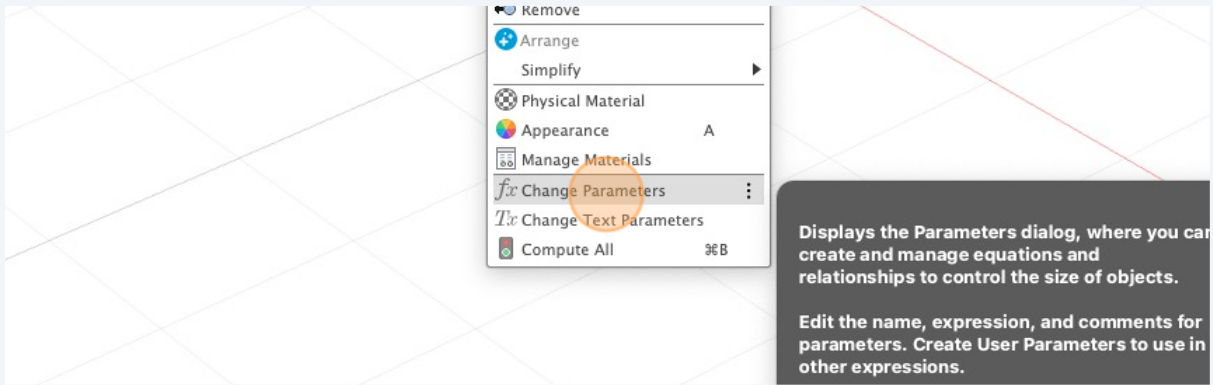
# Simple Cabinet with Frame-and-Panel Doors

## Set parameters and make the case

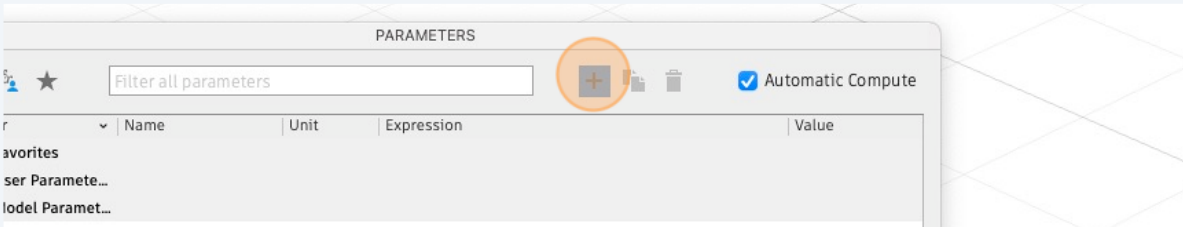
1 Click "Modify"



2 Click "Change Parameters"



3 Click the plus button to add user parameters

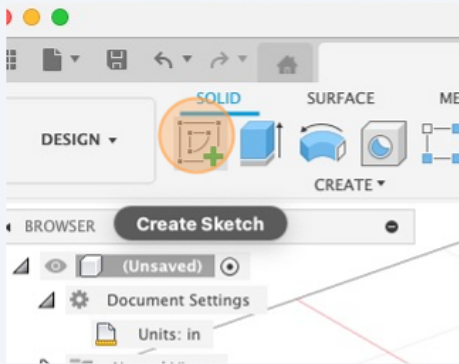


#### 4 Create the following parameters

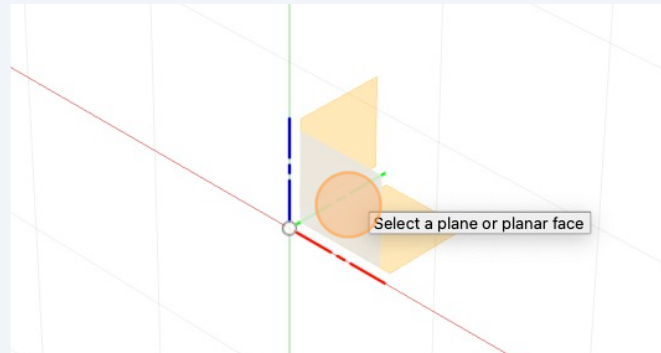
- Height = 36
- Width = 30
- Depth = 12
- CaseThickness = 3/4
- StyleWidth = 2

User Parameters					
☆	User Para...	Height	in	36 in	36.00
☆	User Para...	Width	in	30 in	30.00
☆	User Para...	Depth	in	12 in	12.00
☆	User Para...	CaseThickness	in	(3 / 4) * 1 in	0.75
☆	User Para...	StyleWidth	in	2 in	2.00

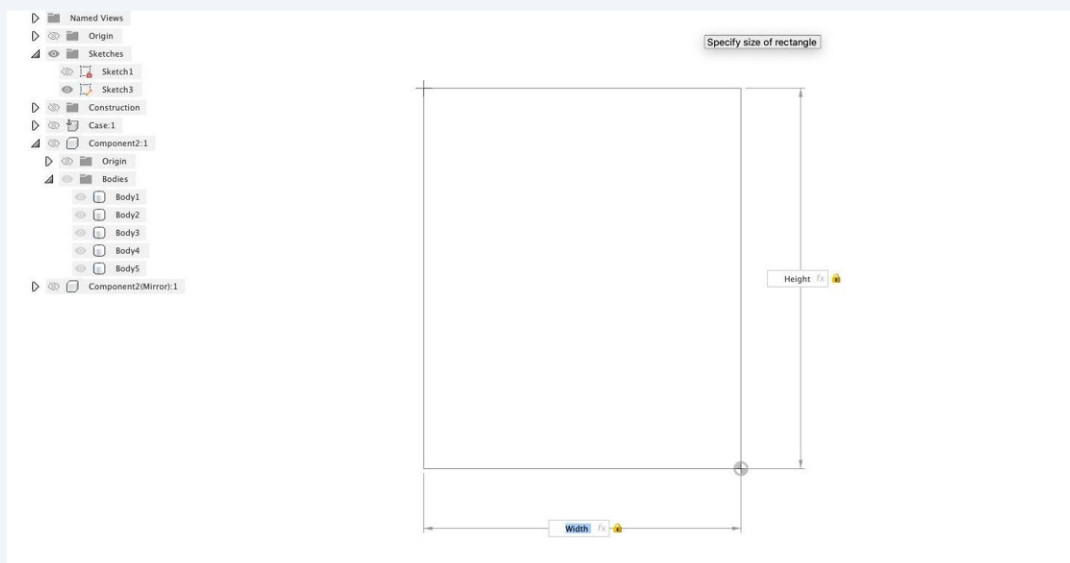
#### 5 Create a new sketch



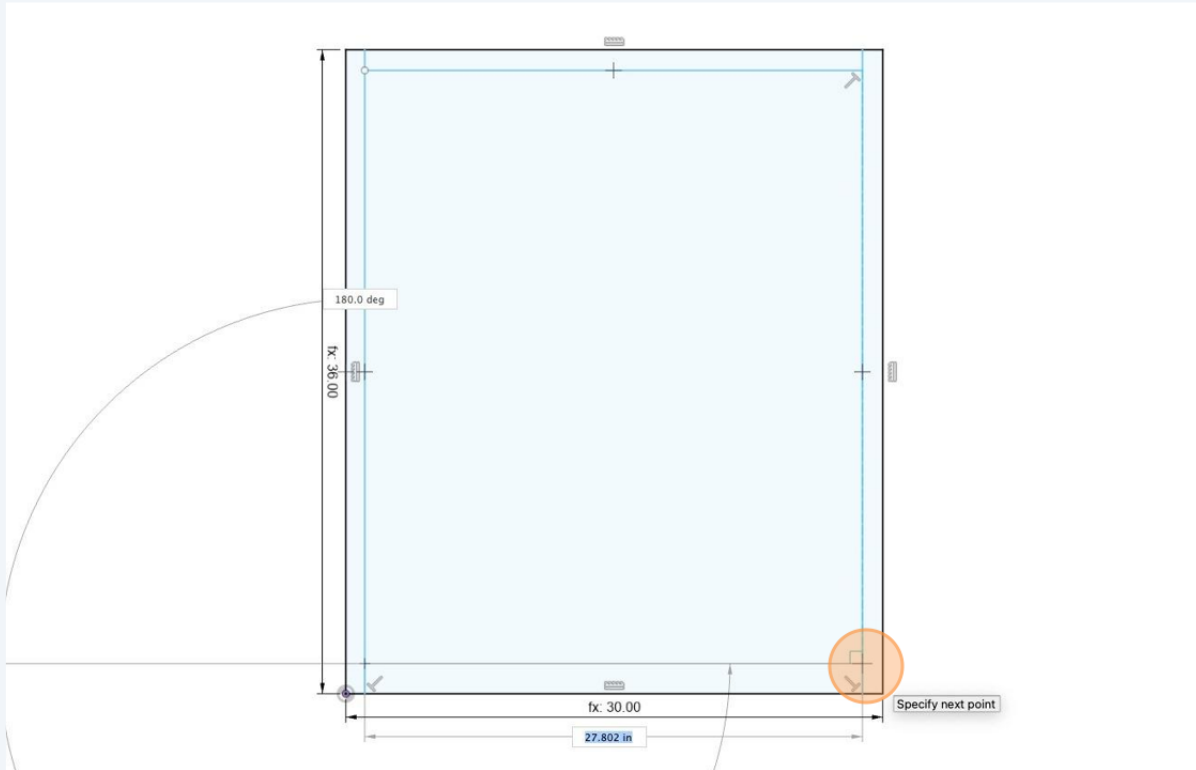
#### 6 Select the front plane



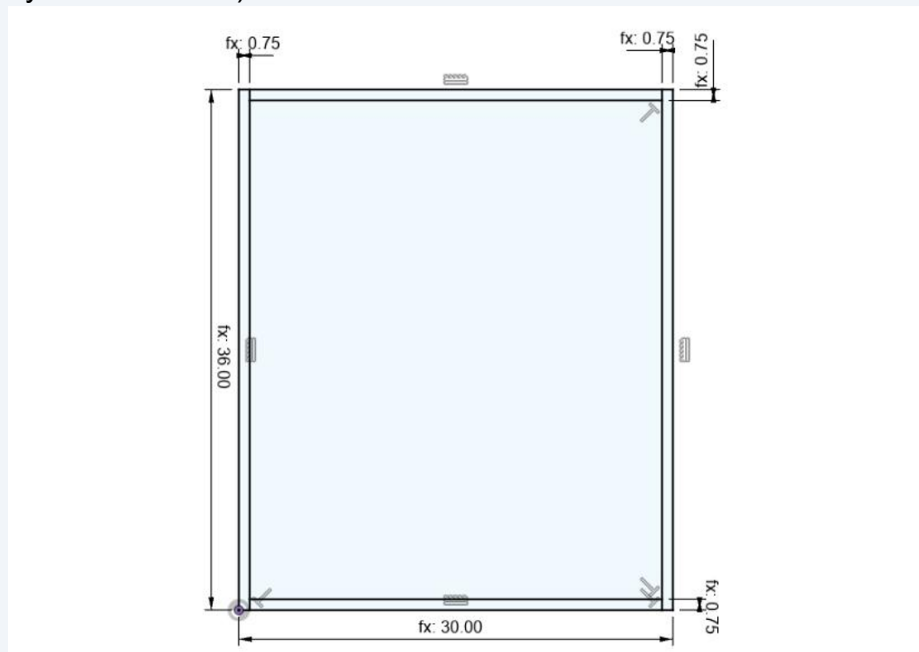
#### 7 Create a rectangle from the origin point that is (height) X (width)



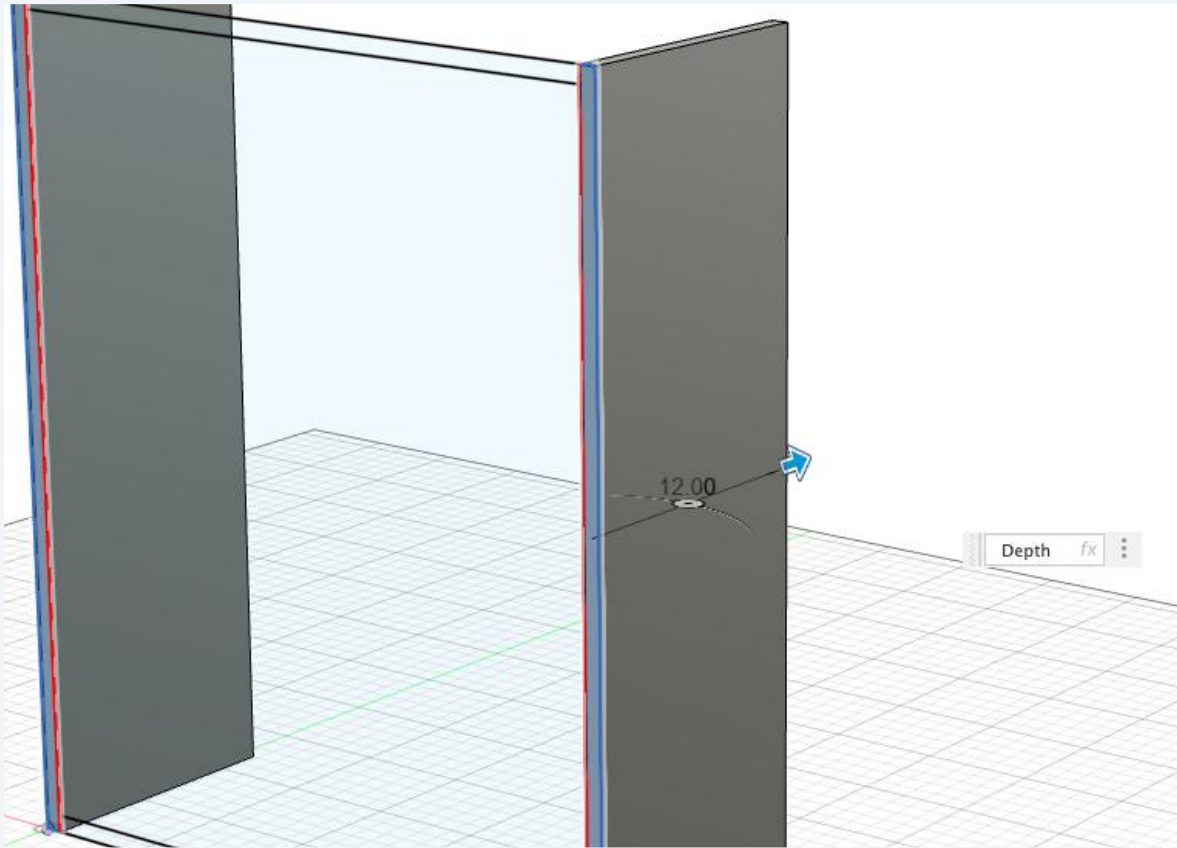
- 8 Draw in four lines, starting with the two vertical lines and then the two horizontal lines. (Key Command 'L')



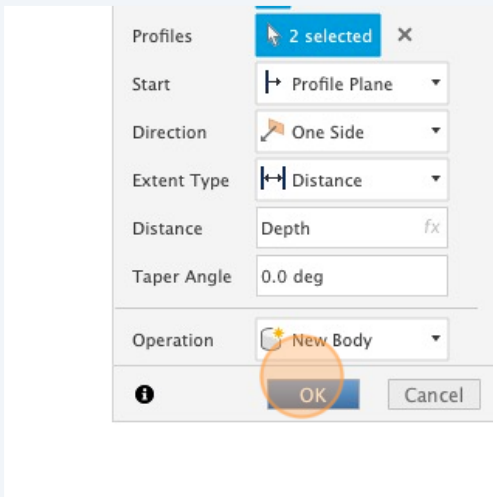
- 9 Dimension each (CaseThickness) away from the outside rectangle. (Key command 'D')



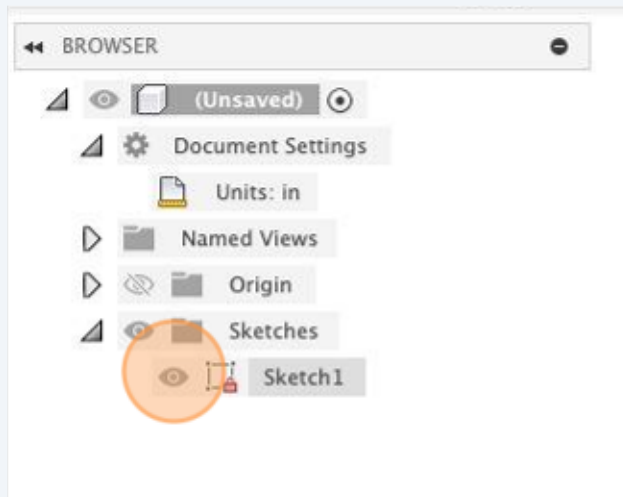
- 10** Select the two vertical segments and extrude them (depth).  
(Key Command 'E')



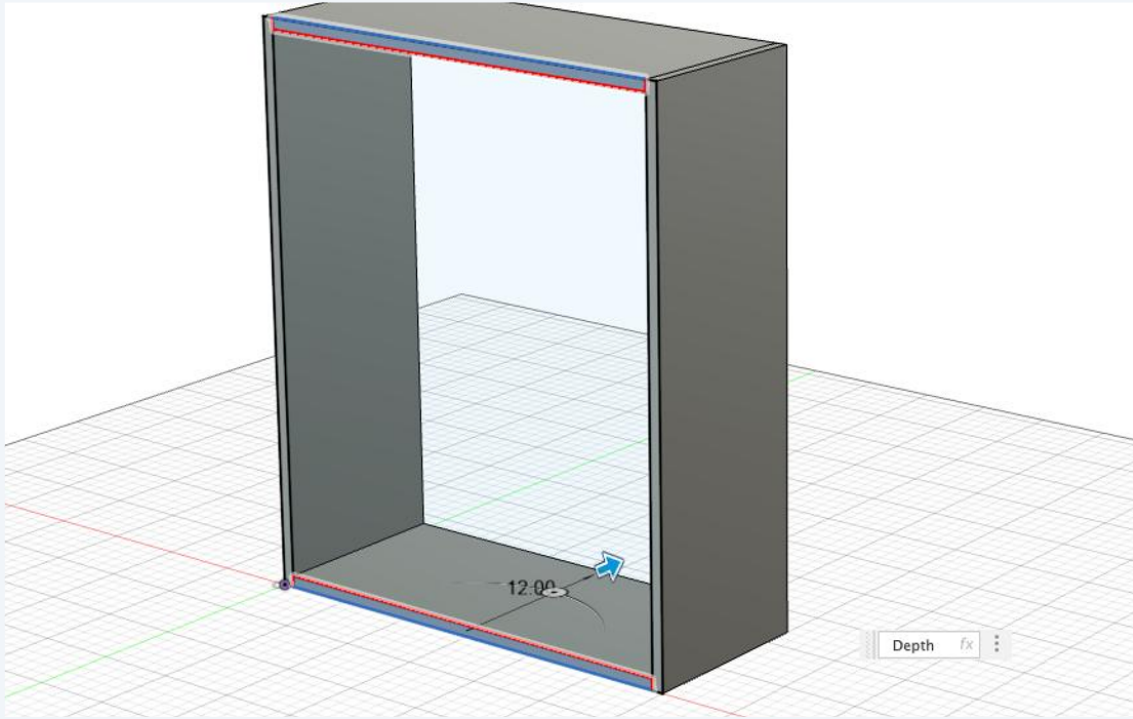
- 11** Select "New Body" and hit "OK".



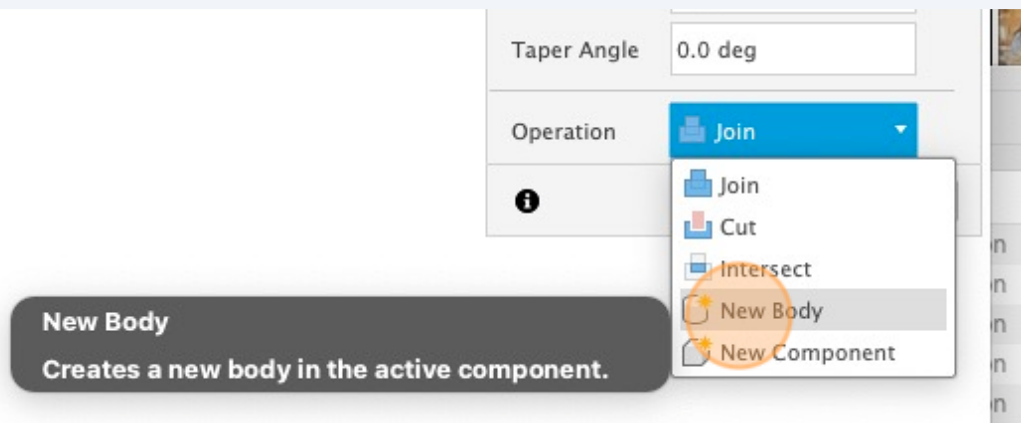
- 12** Show the sketch again.



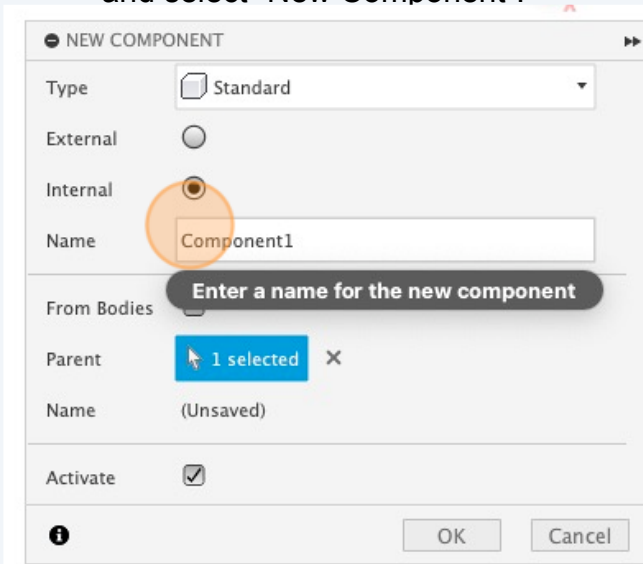
**13** Extrude the horizontal segments.



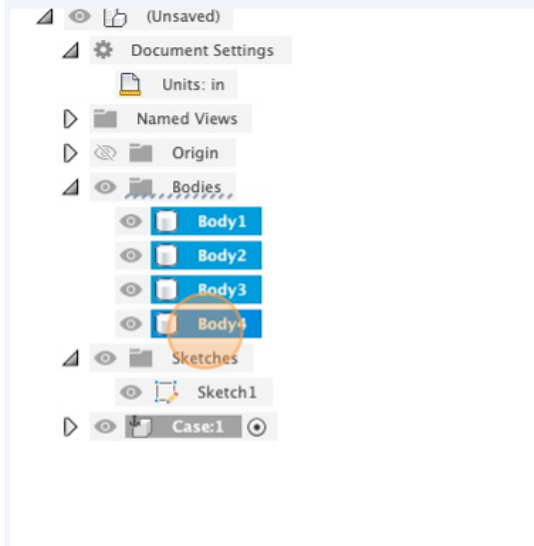
**14** Change “Join” to “New Body” and select “OK”.



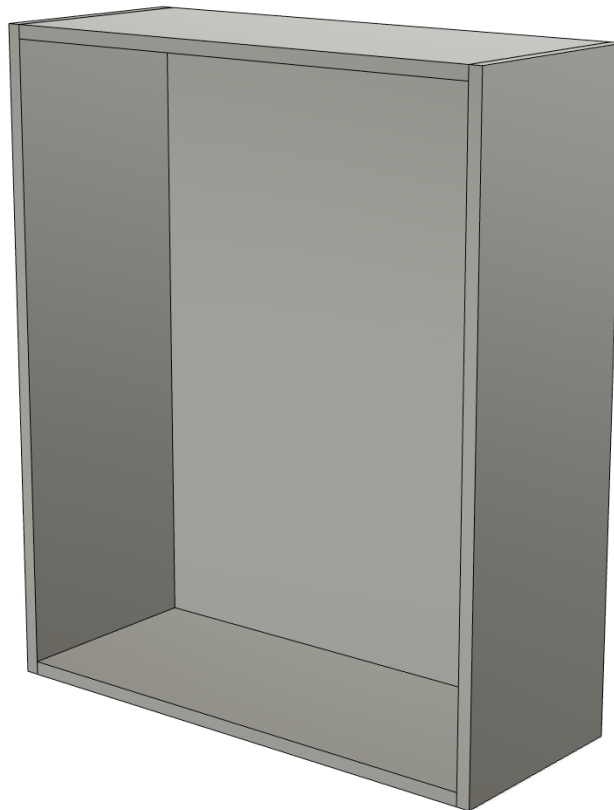
**15** In the browser, right-click on the project and select "New Component".



**16** Select the bodies and drag them into the component.

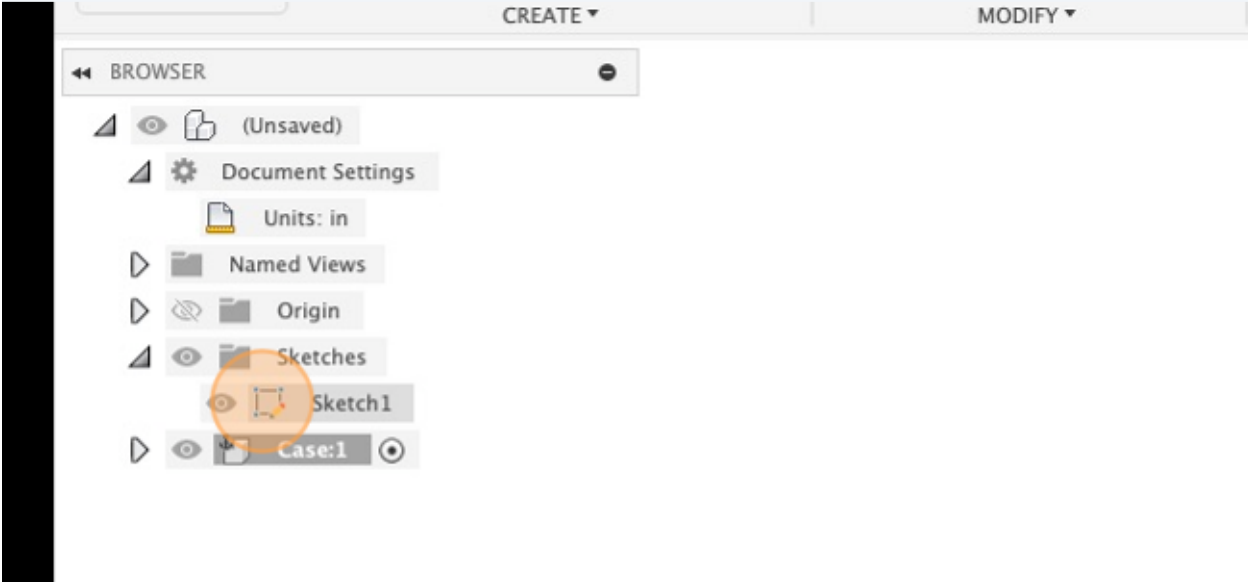


**The case is complete**

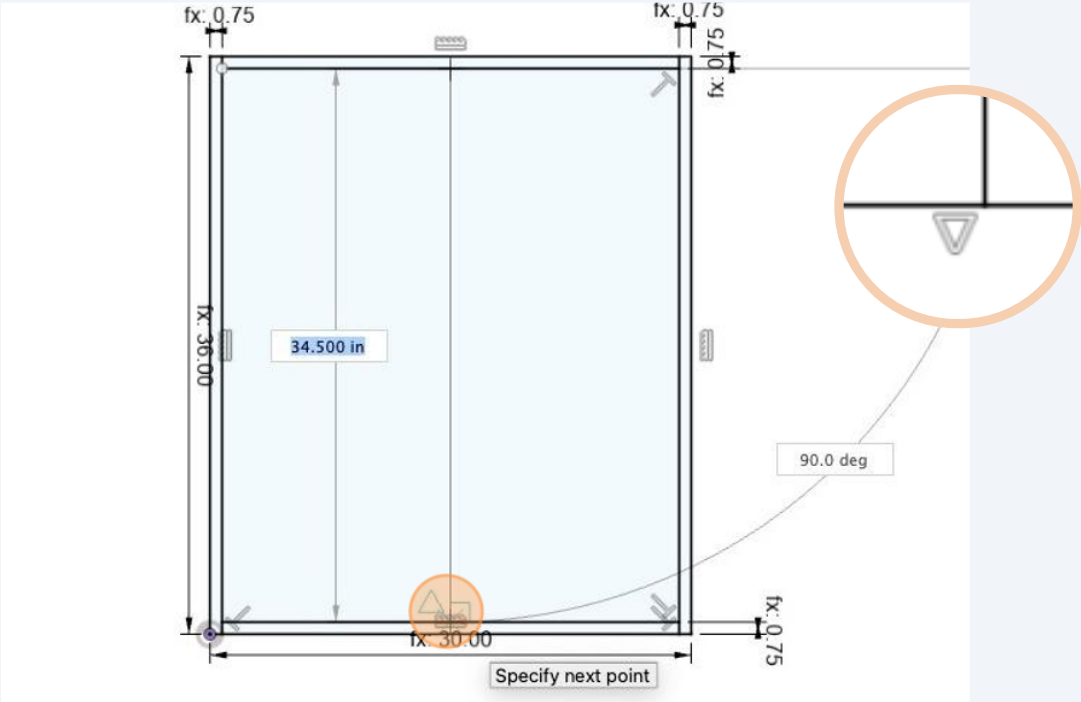


# Create a frame and panel door

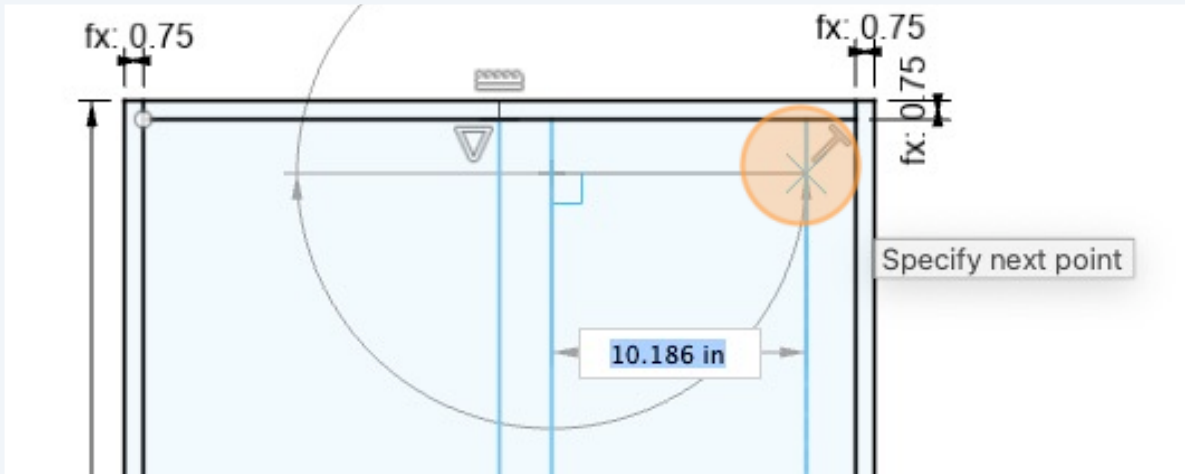
17 Double-click back into the original sketch.



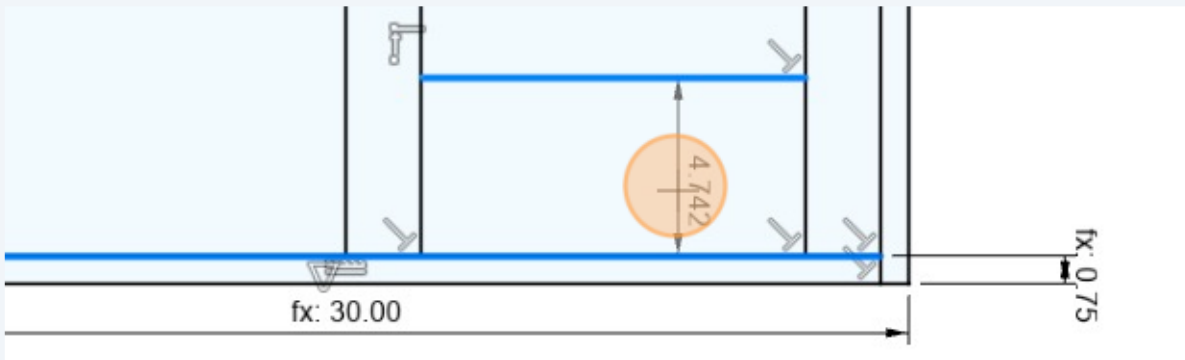
18 Create a line referencing off the middle of the horizontal. Hover near the middle and when the triangle pops up next to the cursor it snaps to the middle.



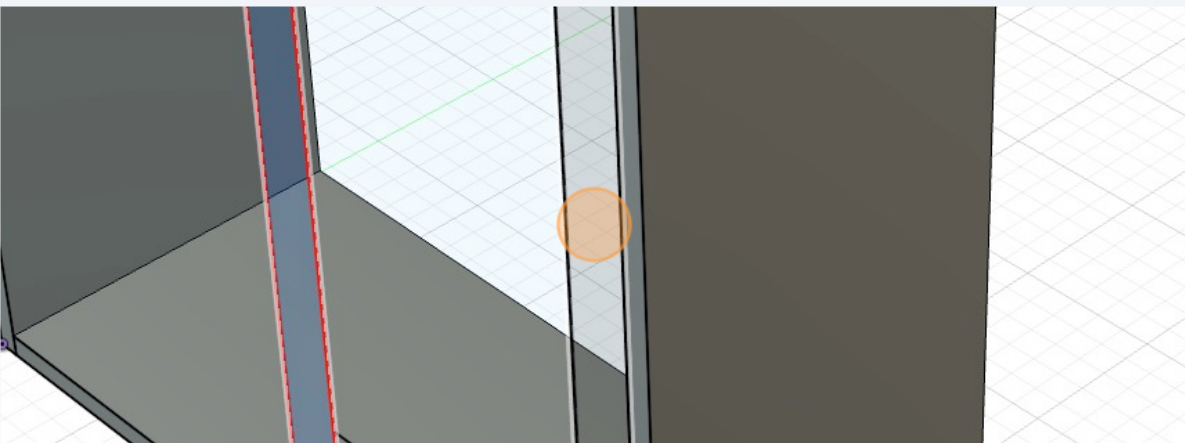
- 19 Draw in the two vertical side styles and the top rail. Dimension them to "StyleWidth".



- 20 Draw in the bottom style and dimension it (StyleWidth\*3).

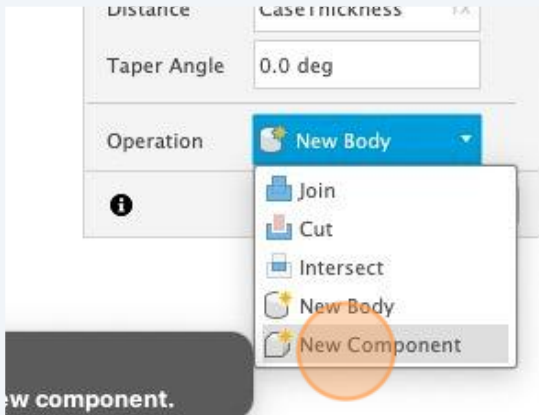


- 21 Extrude the vertical styles (CaseThickness).

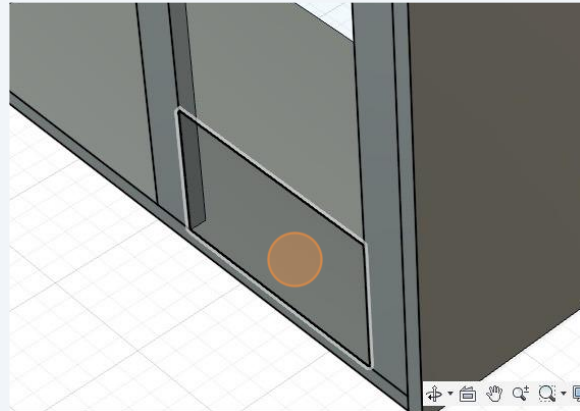




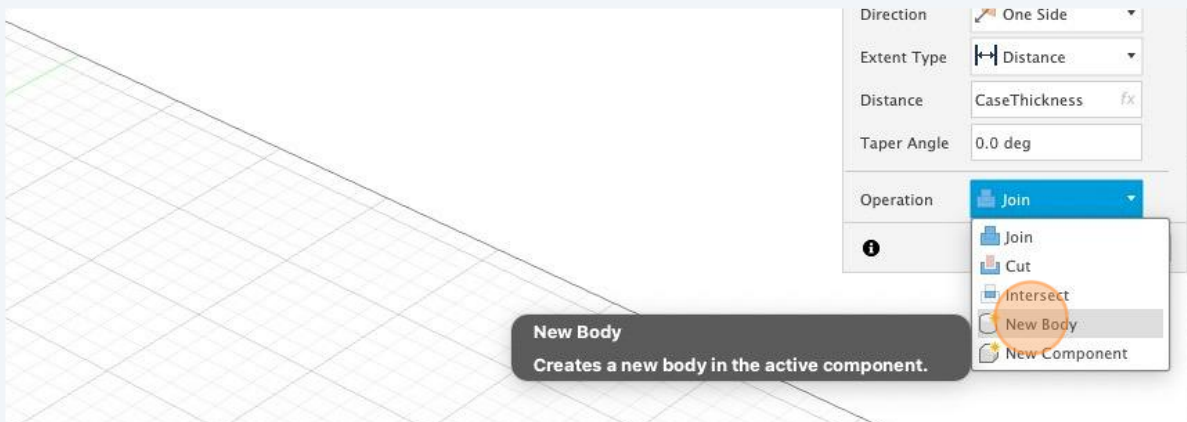
22 Select "New Component" and click "OK".



23 Extrude the horizontal styles (CaseThickness).

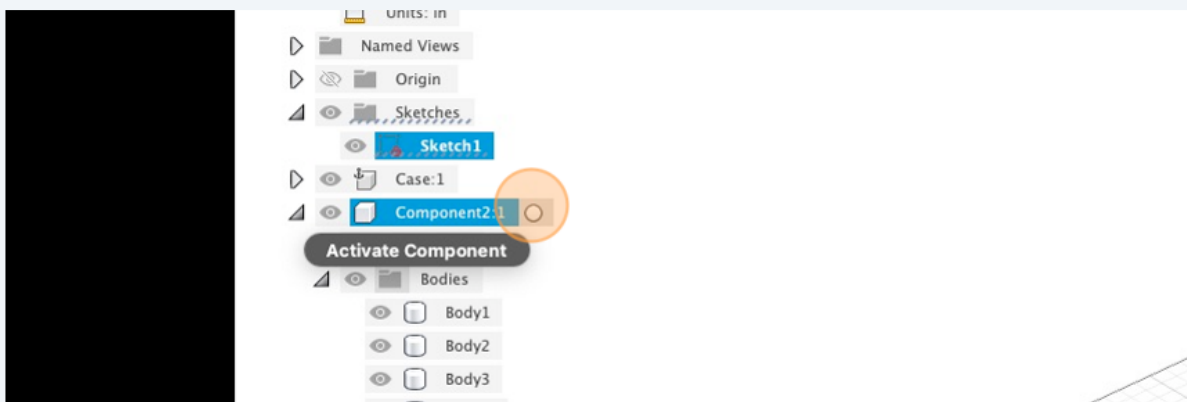


24 Since you just made a new component for the door, select new body.

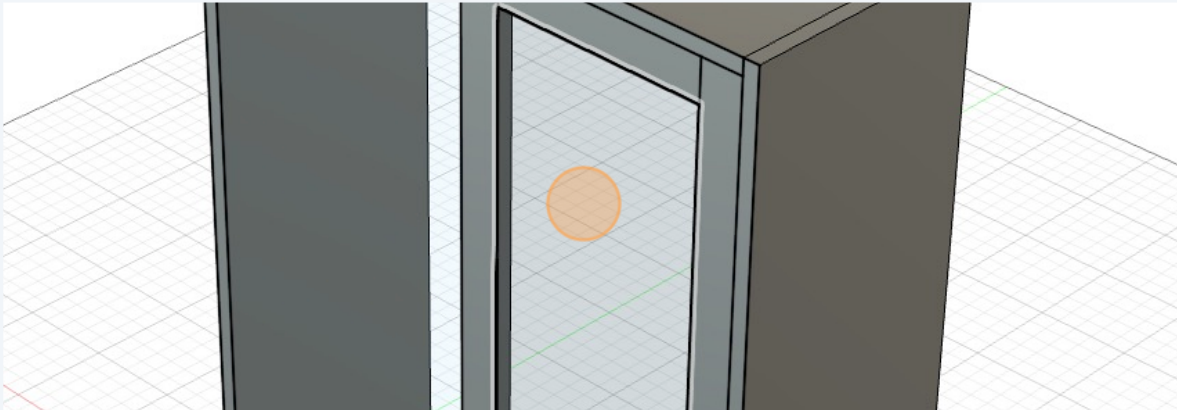


## Extruding with an offset

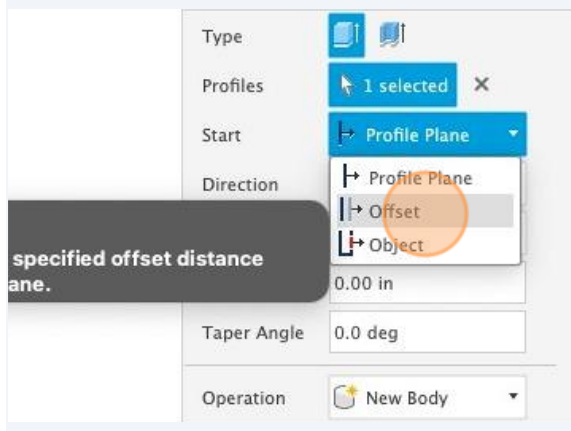
25 Make sure that you still have the door component selected.



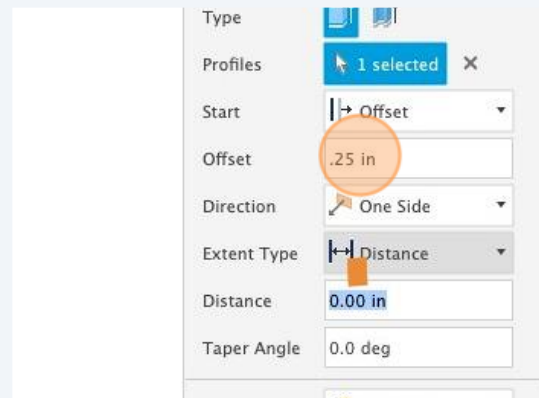
**26** Select the center segment to extrude the panel.



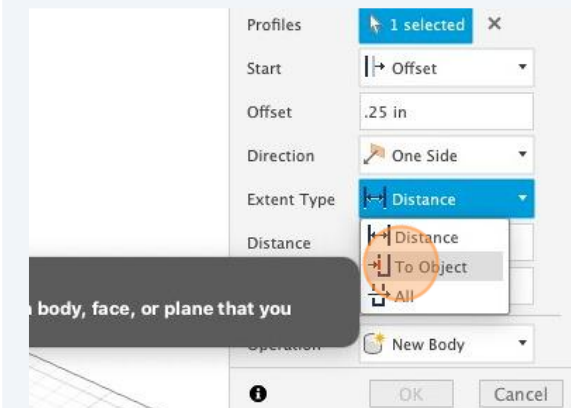
**27** Change the start to "Offset".



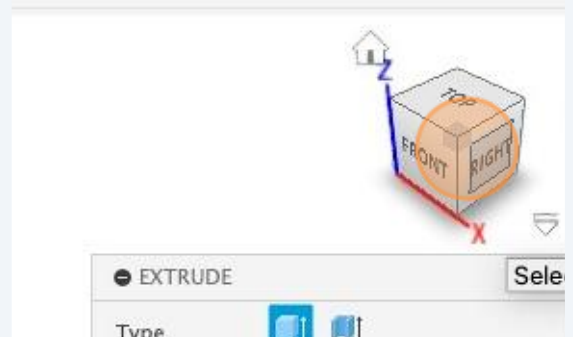
**28** Set the dimension of the offset to .25 in.



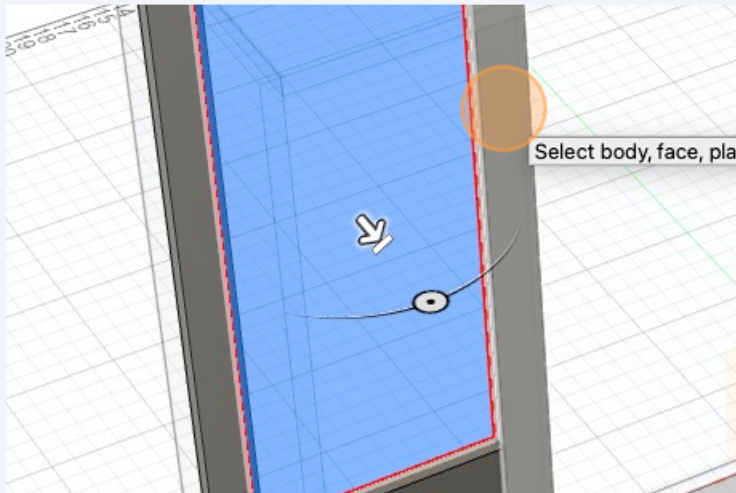
**29** Change the extent type to "To Object"



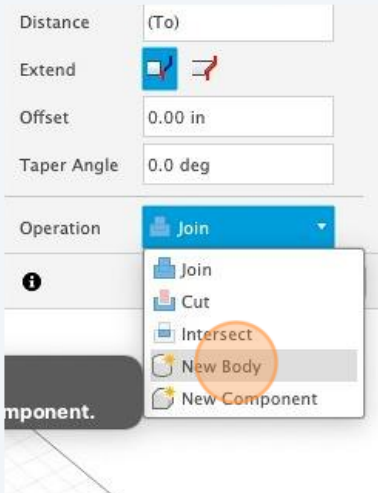
**30** Orbit the model to show the back side of the door.



**31** Select the back of the frame to set the “To Object” plane.

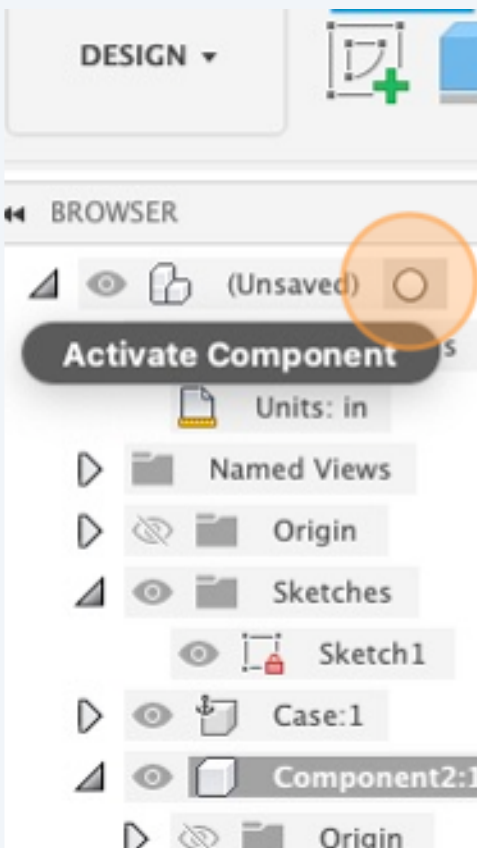


**32** Select a new body and hit “OK”.

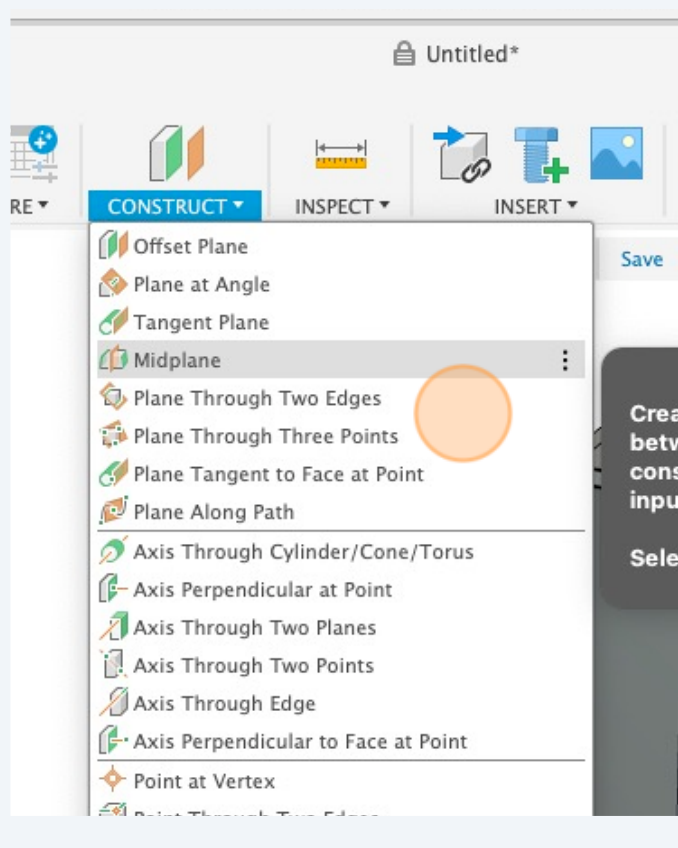


## Create a mid-point construction plane and mirror the door

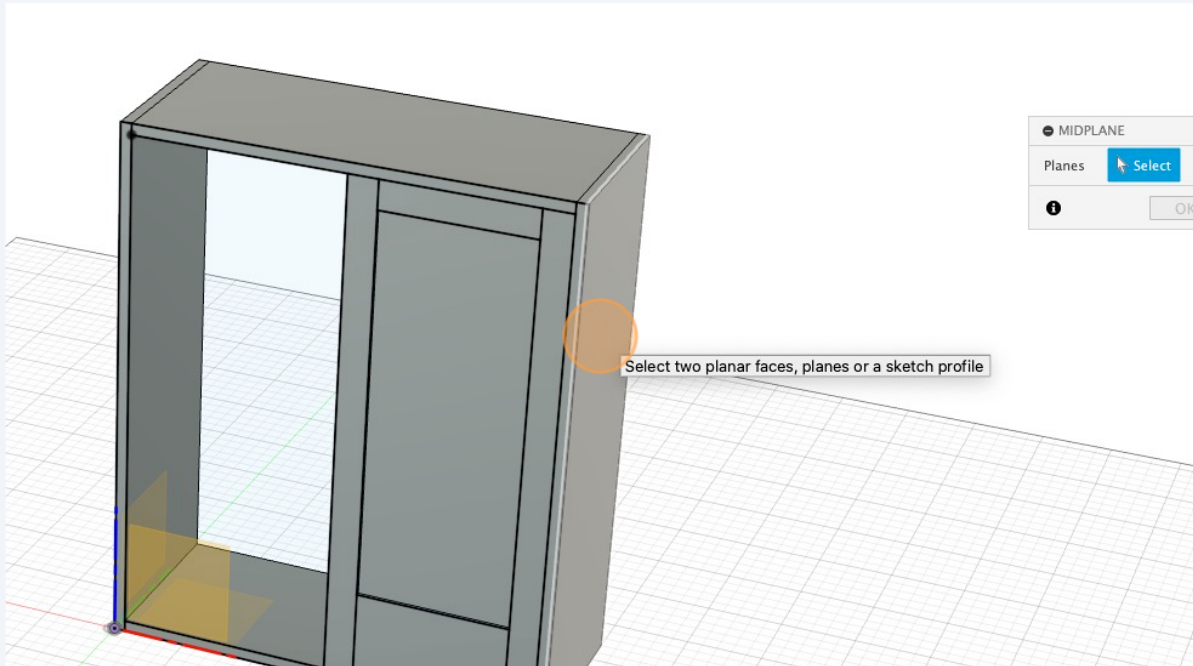
**33** Select the top project in the browser.



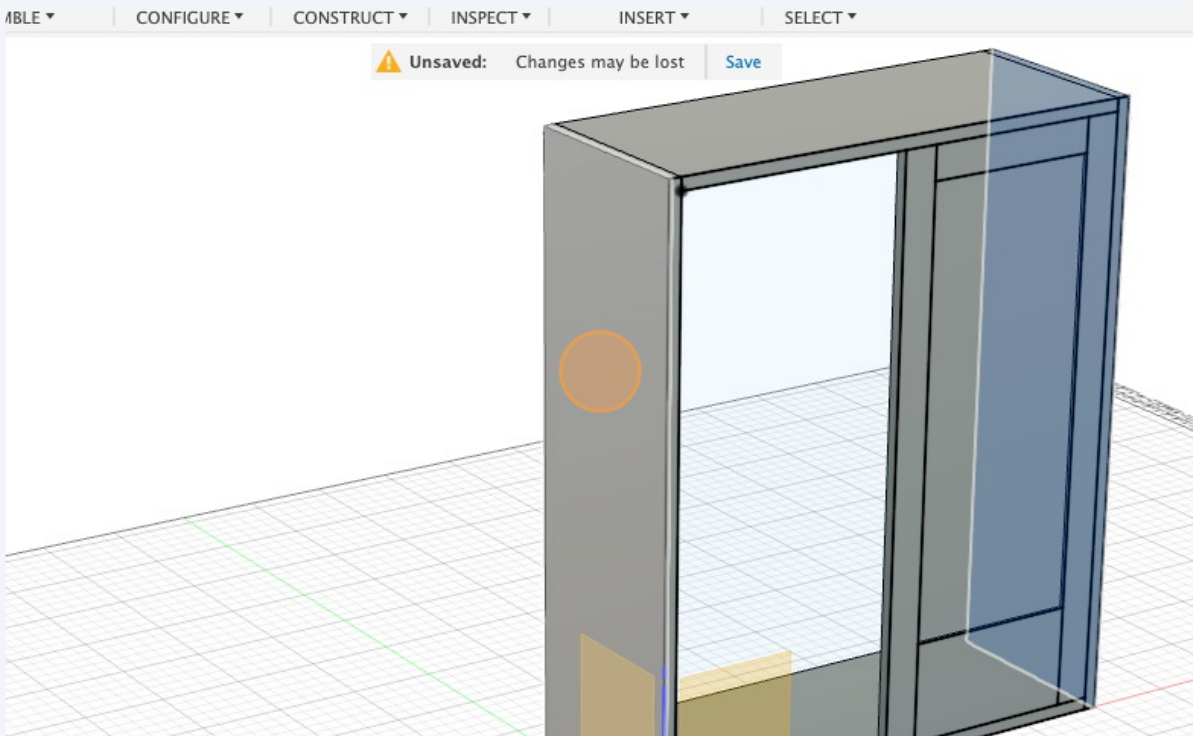
**34** In the “Construct” menu select “Midplane”.



**35** Select the side as the first plane.

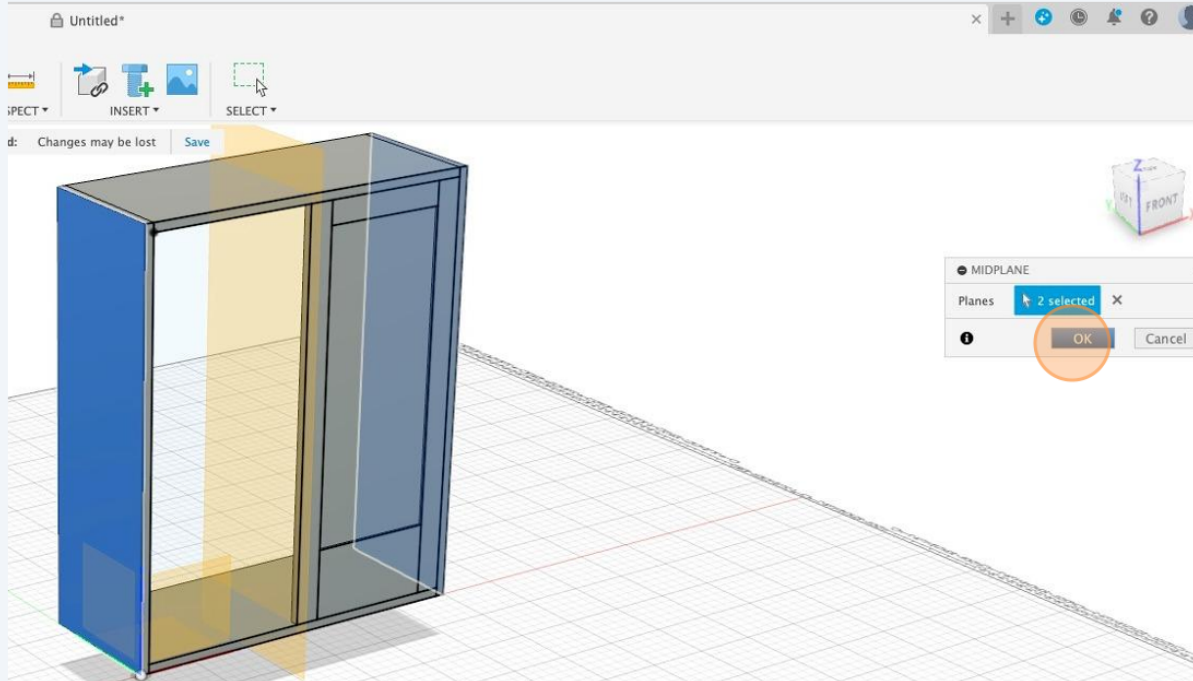


**36** Orbit the model, and select the opposite side as the second plane.

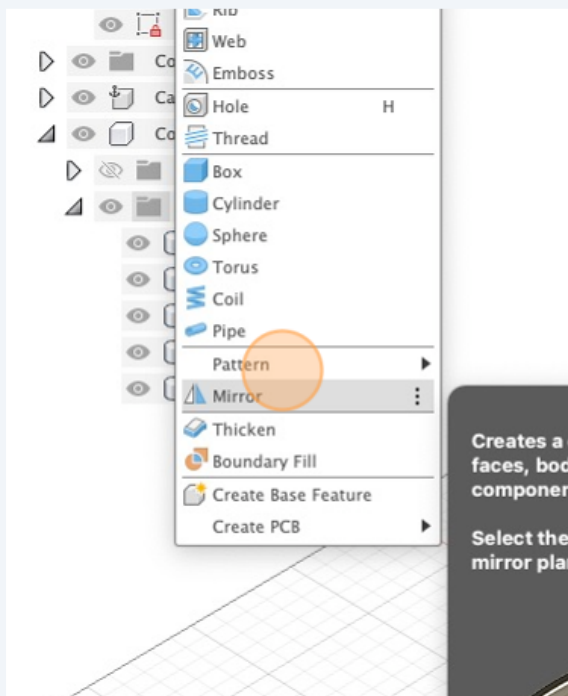




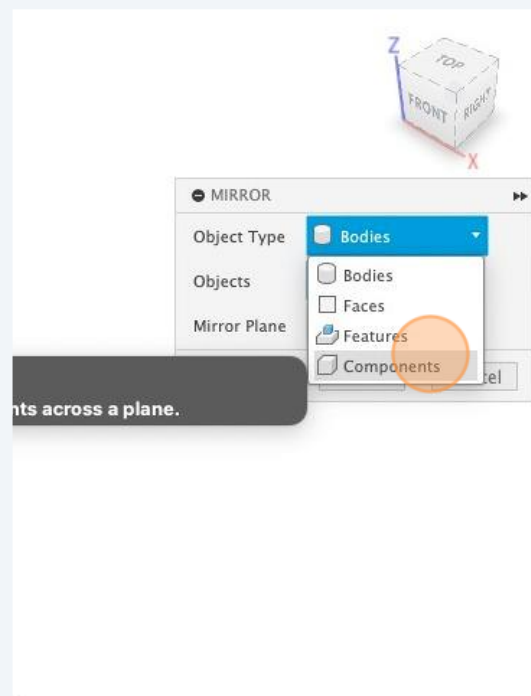
37 Click "OK". Your midpoint plane is created.



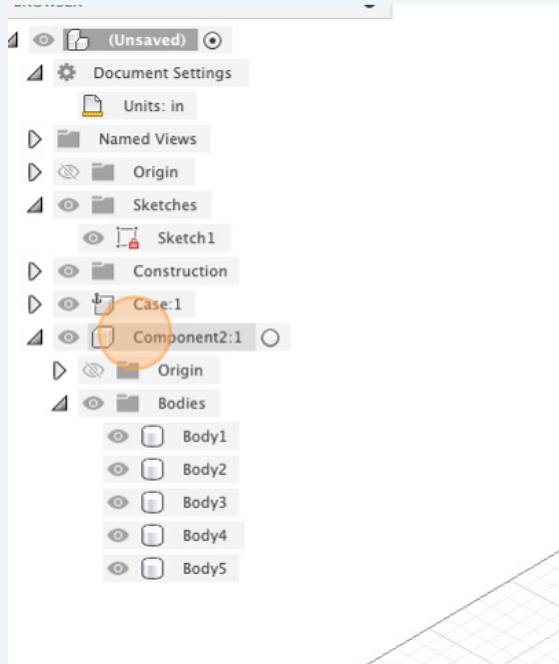
38 In the "Create" menu, select "Mirror".



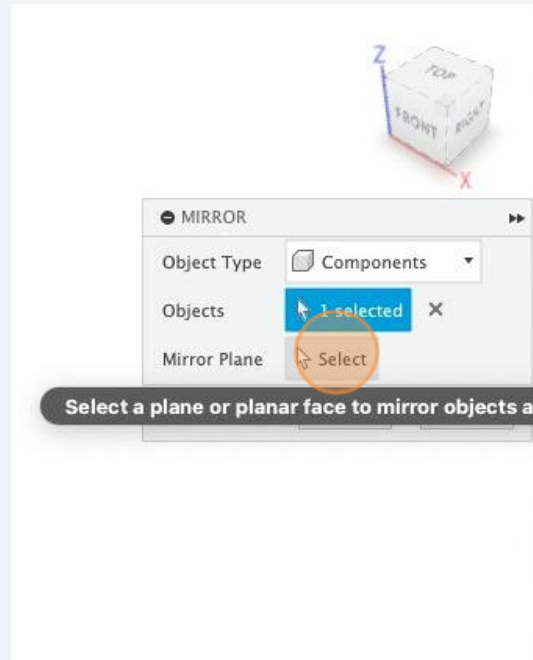
39 Change the object type to components.



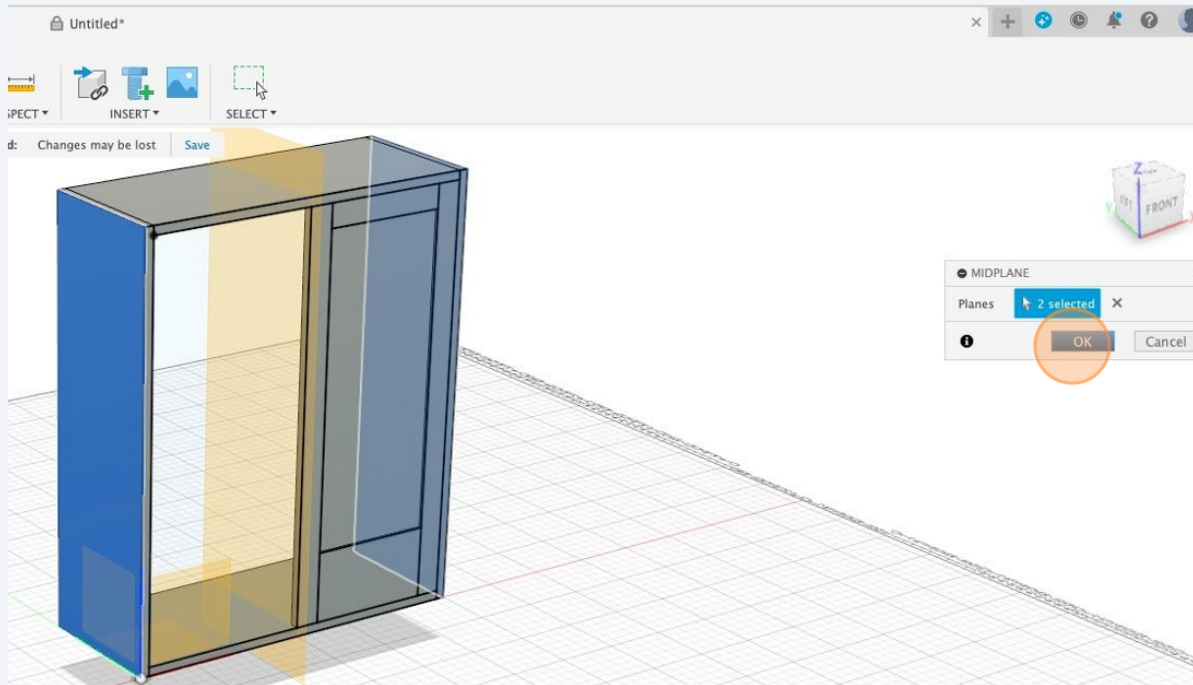
**40** In the browser, select the door you want to mirror.



**41** Click on the select option next to mirror plane.



**42** Select the midpoint plane and click 'ok'.



**You're done!**

