

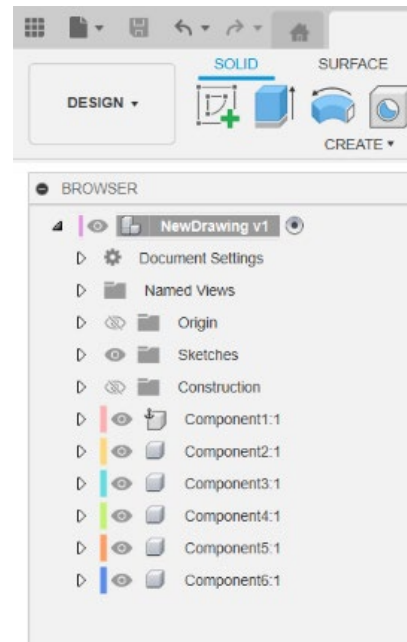
Fusion 360 Laser Cutting setup

1. Exporting vector information's for laser cutting: Fusion 360

Firstly make sure you have check the size of your design and that it will be accurate one you have cut or engraved the material – measure twice, cut once as the saying goes.

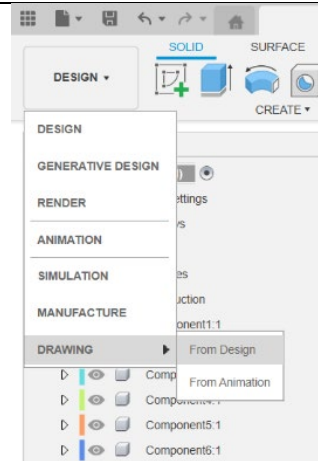


2. It's easier to deal with individual pieces of your model if they are components but it will still work without this step.

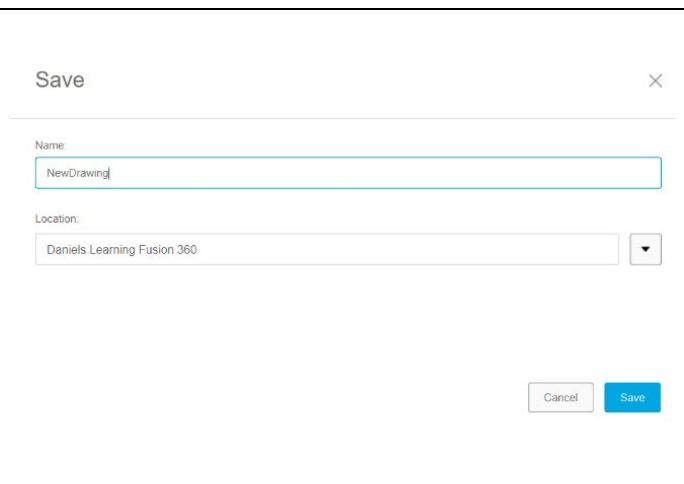


3. Next you are going to either lay out your work as is described in the Fusion layout guide, or work with orthographic views of your model.

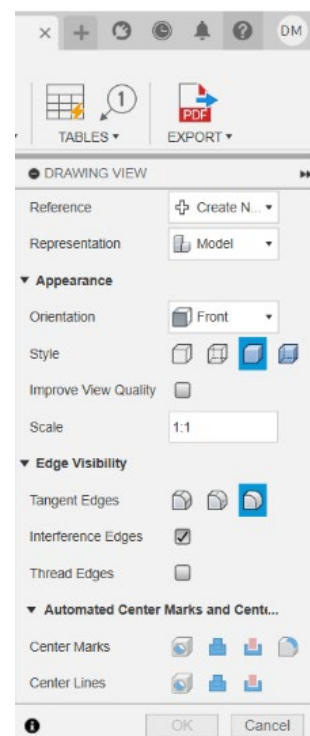
4. Create a drawing and select the model as the source for the drawing.
 - At this point if you are aiming to create a contour model of your Fusion 360 design you would switch to a program like Slicer to generate your laser cut vectors.



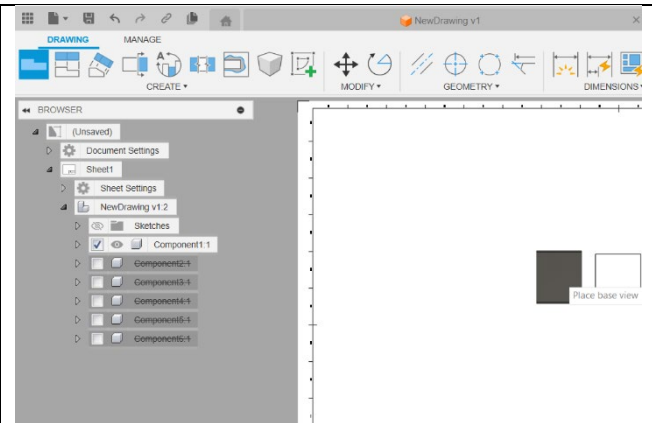
5. Fusion will then create a new tab that is your drawing so you can save that tab to preserve your work.



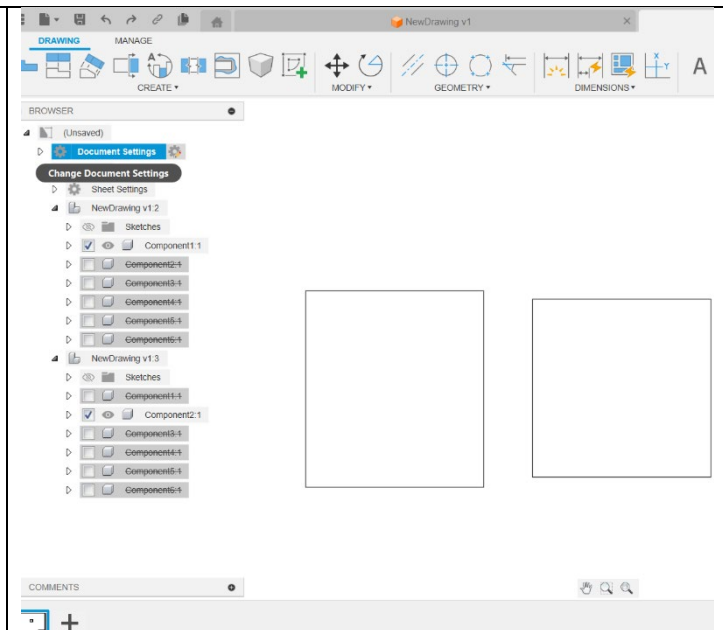
6. Select 1:1 as we want to work at true scale however if you wanted to make a smaller scale version of the prototype you could select 1:2 for half scale for example.
7. Select the orientation of your angle as this will reflect the side of your 3d model that you want to capture as a 2D job.



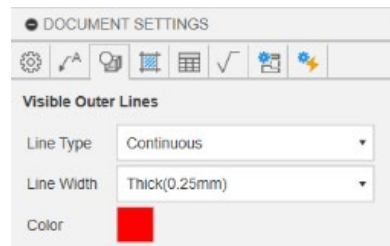
8. Place the section you have created and uncheck the components to the left of your screen that are not in use so you are only generating cut line information that is the outline of you shape. Press return/enter to accept these settings.



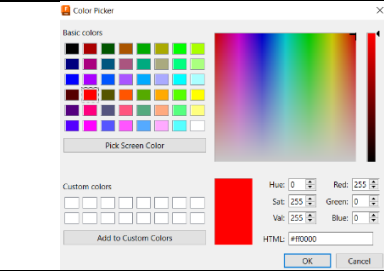
9. Place all the pieces for laser cutting and adjust the line colour. Remember when laying out each section of the design, we will be using up a material and to make sure nothing is being wasted try and place each section no less than 2mm apart, optimising the job.



10. Change the line colour in the document settings tab by clicking the small cog to the right of the menu item. Select the third tab in document settings and change the colour of the visible outer lines to RGB (Red,Green,Blue) Red. If you would like to engrave a set of outlines pick green and if there is a section of engraving the colour is set to black with a black fill in order to perform a vector engrave.



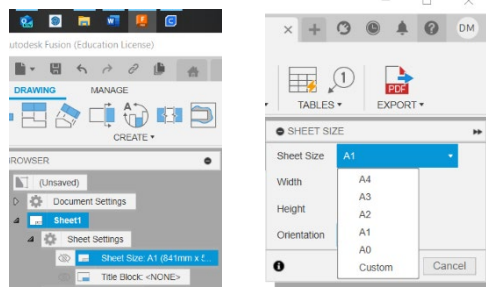
Change the colour to RGB red 255,0,0



The outline will become red when you confirm the changes.

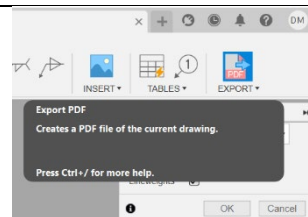


The sheet size is a bit larger than is needed and can be changed in the sheet settings.



The only file format that the Makerspace will process for laser cutting is a .PDF document.

In the top right there is an export button that you can be used to export the new layout.



Choose the file location and hit save.
This should be all you need to cut and engrave sections of your design or even the whole design.

Laser Cut

Type: PDF Files (*.pdf)

Save to a project in the cloud

Daniels Learning Fusion 360

| PROJECT | Daniels Learning Fusion 360 | |
|---------------------------|-----------------------------|-------------------------|
| | NAME | LAST UPDATED |
| Daniels Learning Fusio... | | |
| 90 minute Fusion | Camera Drawing | 5/09/2023, 9:42:28 AM |
| Admin Project | card | 9/02/2024, 12:10:44 PM |
| Default Project | chordConnectors | 26/10/2023, 11:46:48 AM |
| Fasteners | clip | 5/09/2023, 10:10:33 AM |
| | cone | 19/09/2023, 3:29:36 PM |
| | Cylinder | 26/07/2023, 2:59:44 PM |
| | Daniels Podium Mill | 12/07/2023, 10:34:20 AM |

Save to my computer C:/Users/289655/Desktop

New Project New Folder Cancel Save