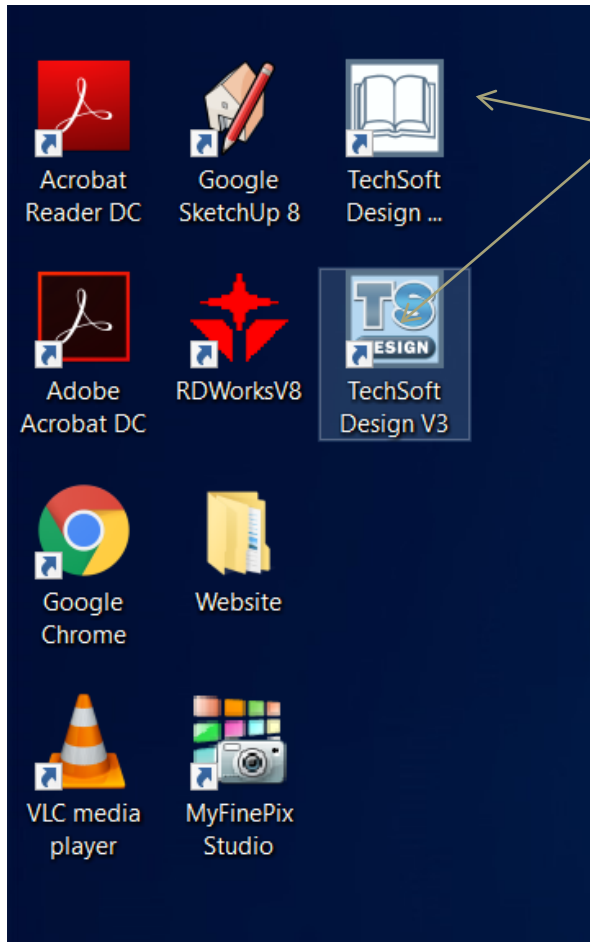


Making a simple clock model using TS/2D Design

Go through this tutorial - You will need to create your own shapes and have your 2D design files for your 'contoured stained glass windows' available (you can get this off your google drive).

Step 1

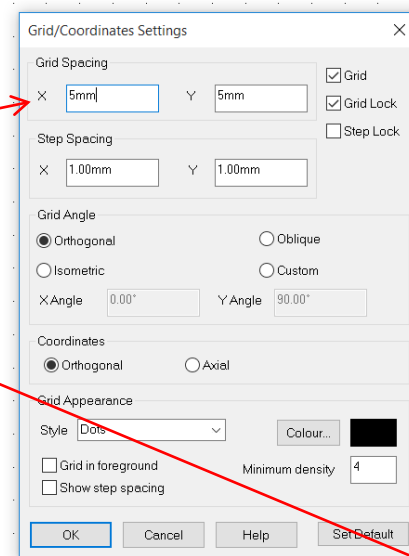
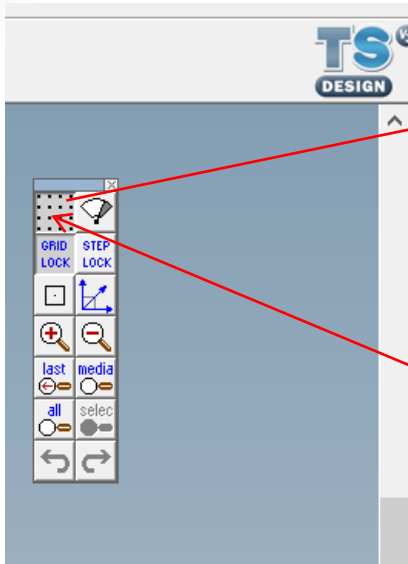


If you have successfully managed to download TS Design it should appear on your desktop of your computer/laptop. You will need to double click to open. You will notice there is a TechSoft Design Tutorial as well, you may want to click on this first to go through.

TS Design is basically 2D, it is just the updated version. The new program allows you to undo mistakes unlimited times (if you remember this was a problem with 2D you could only undo once).

Try this by drawing a few shapes then delete them all and the either Edit - Undo or Keyboard shortcut - Ctrl - Z.

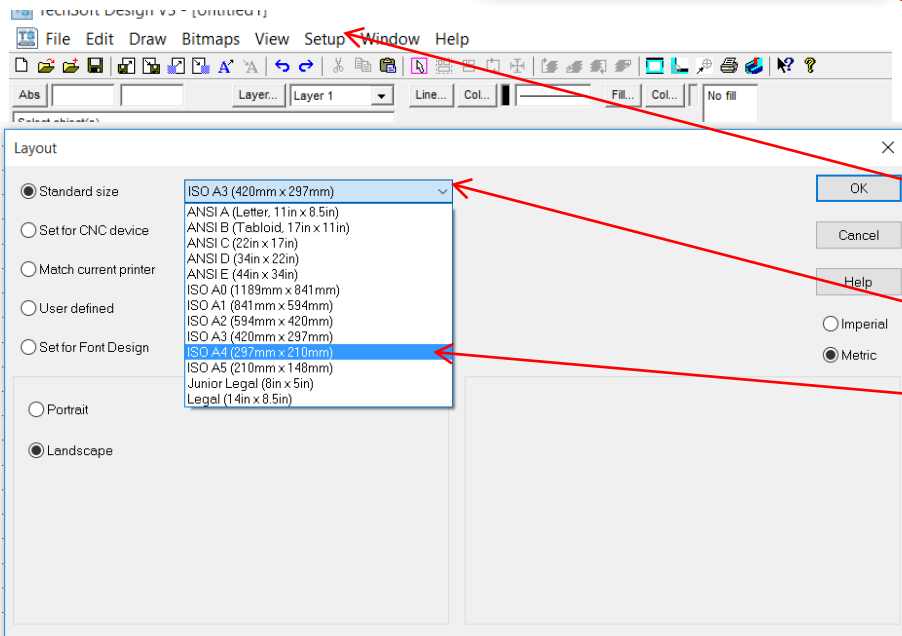
Step 2 - Set up your Artboard.



If you do not have your folders, don't worry you can still do this! You will make up your own shapes then draw these onto an A6 piece of paper (if you do not have any paper we can do this as catch up work during intervention sessions when we return to school).

Follow these steps:

1. Switch 'Grid Lock on' (top right tool box)
2. Double click on 'grid' (icon with dots), change grid spacing 'x' and 'y' to 5mm.
3. Go to Top Tab Bar (top of program) and click on 'Setup' - 'Drawing' - 'Layout'. Change 'Standard Size' to ISO A4. Click OK.
4. Now go to File - Save - Save your model as 'Art Deco Model.V1'. Remember to save down regularly

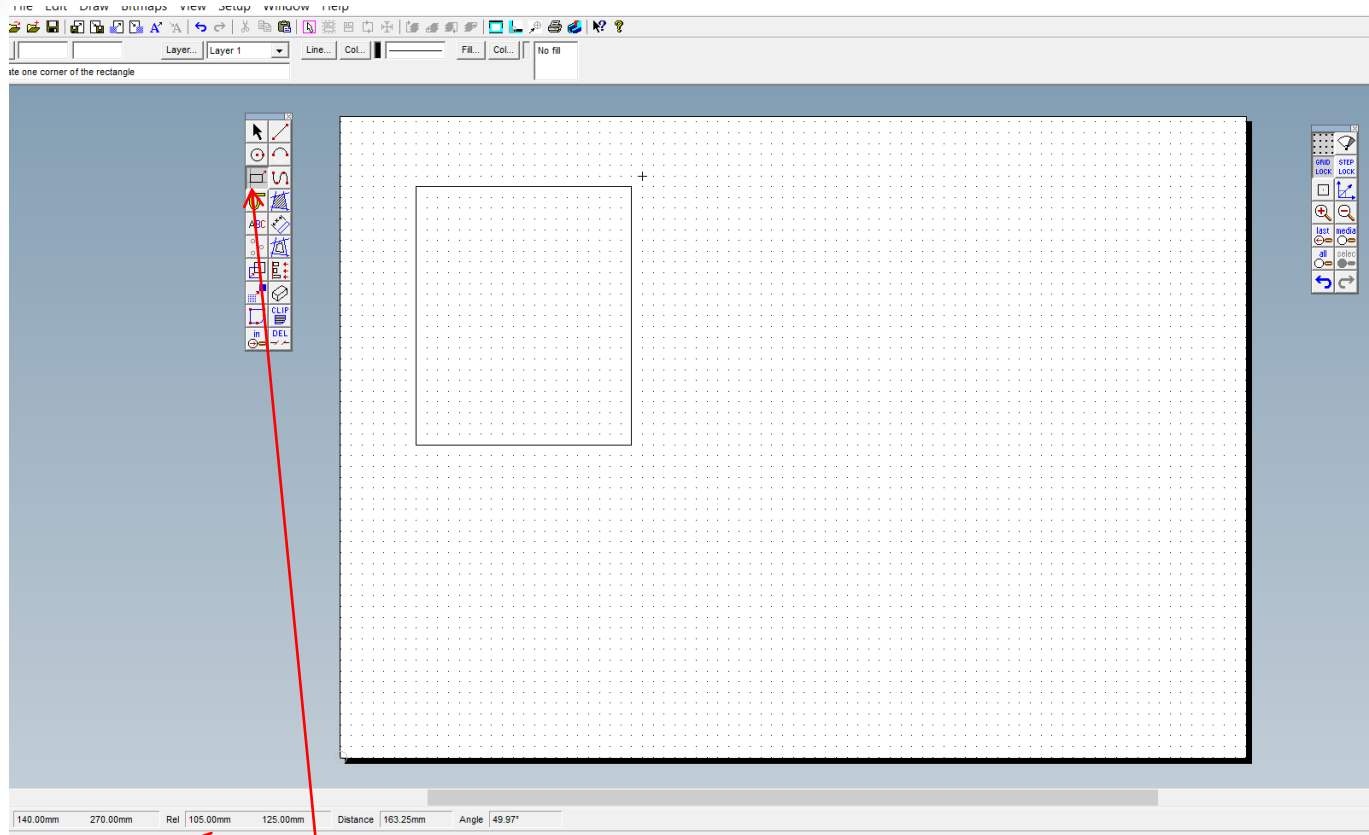


Step 3 - Draw out your shapes

You can draw a simple clock by drawing a box shape then adding your contour window designs.

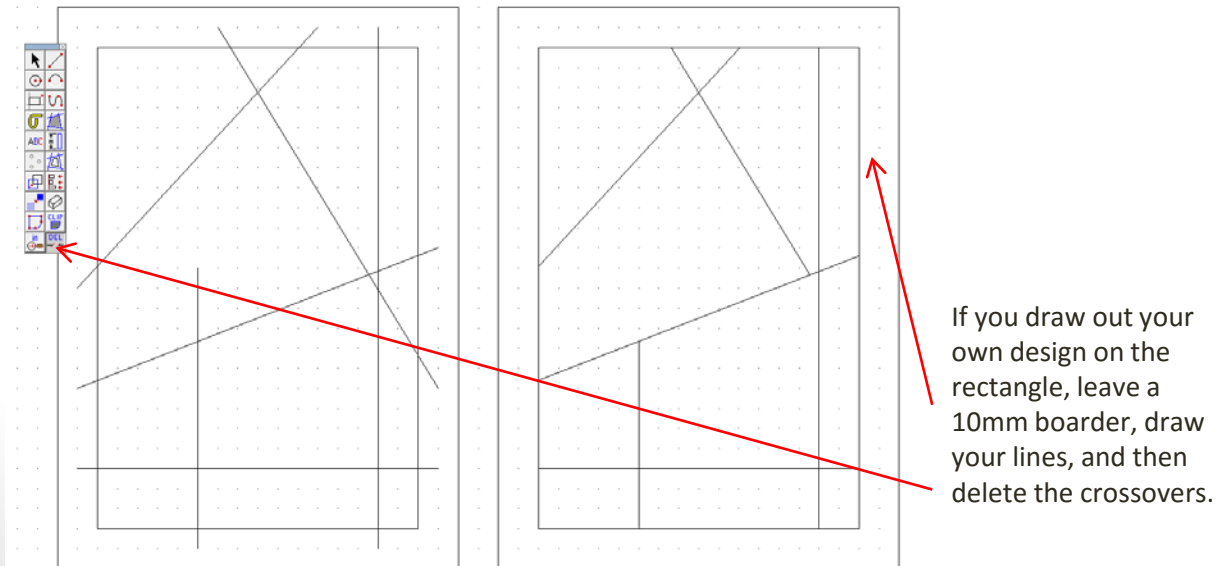
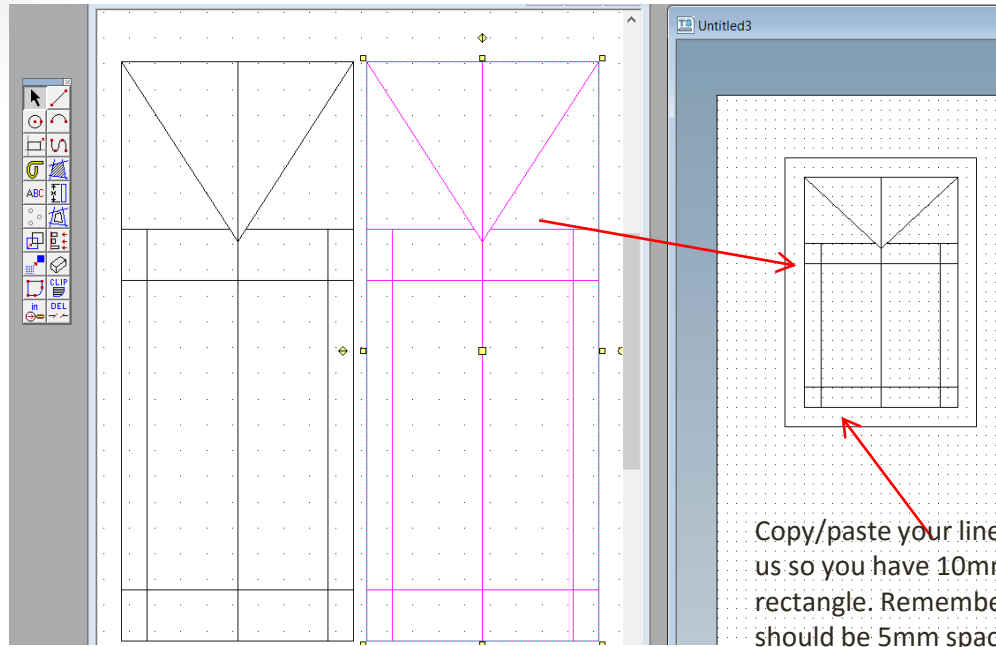
Follow these steps:

1. Draw out a square to the size 100mm x 140mm.
2. To do this accurately double check that you have your 'grid lock' switched on and then use the 'rel' to measure (this is found at the bottom of the screen).



Choose Rectangle tool and use Rel at bottom to measure accurately

Step 4 - Draw out your shapes

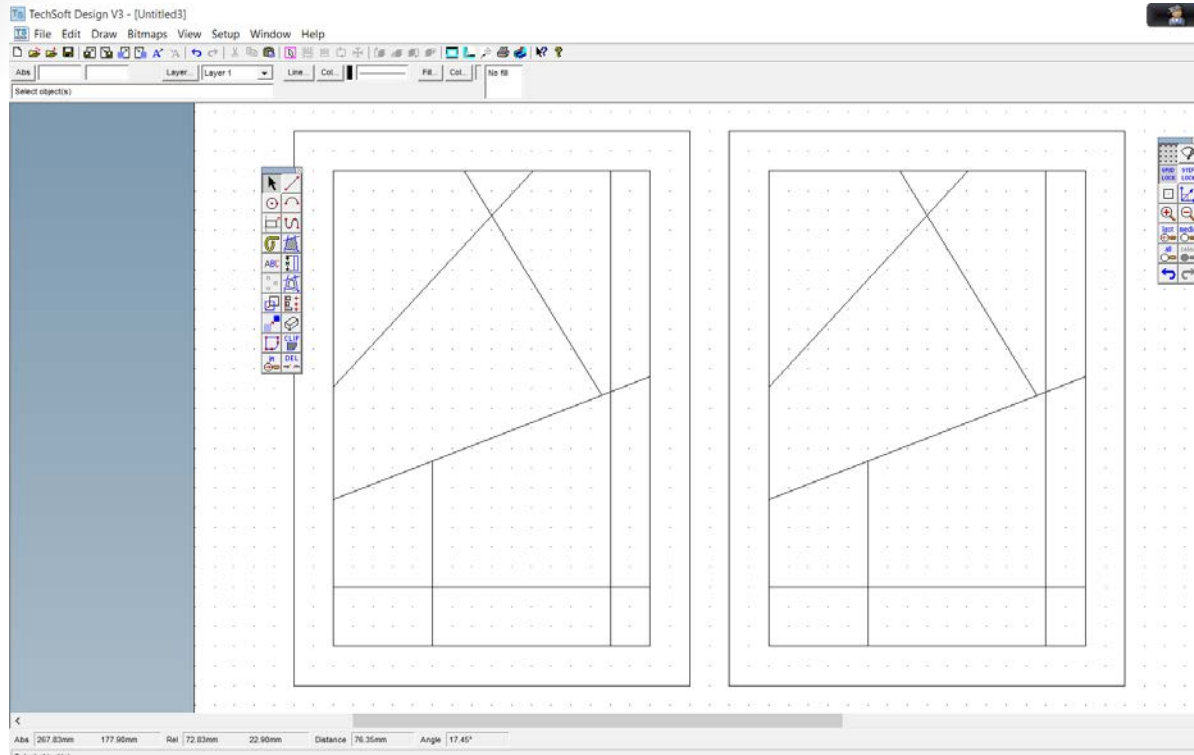


You can draw a simple clock by drawing a box shape then adding your contour window designs.

Follow these steps:

1. Open up your Frank Lloyd Wright Lined Window designs.
2. Line them up so you have 10mm board around the edge of the rectangle shown.
3. You can draw out your own designs on the rectangle but draw out a rectangle 10mm inside you outside rectangle before drawing.

Step 5 - Copy/paste shape



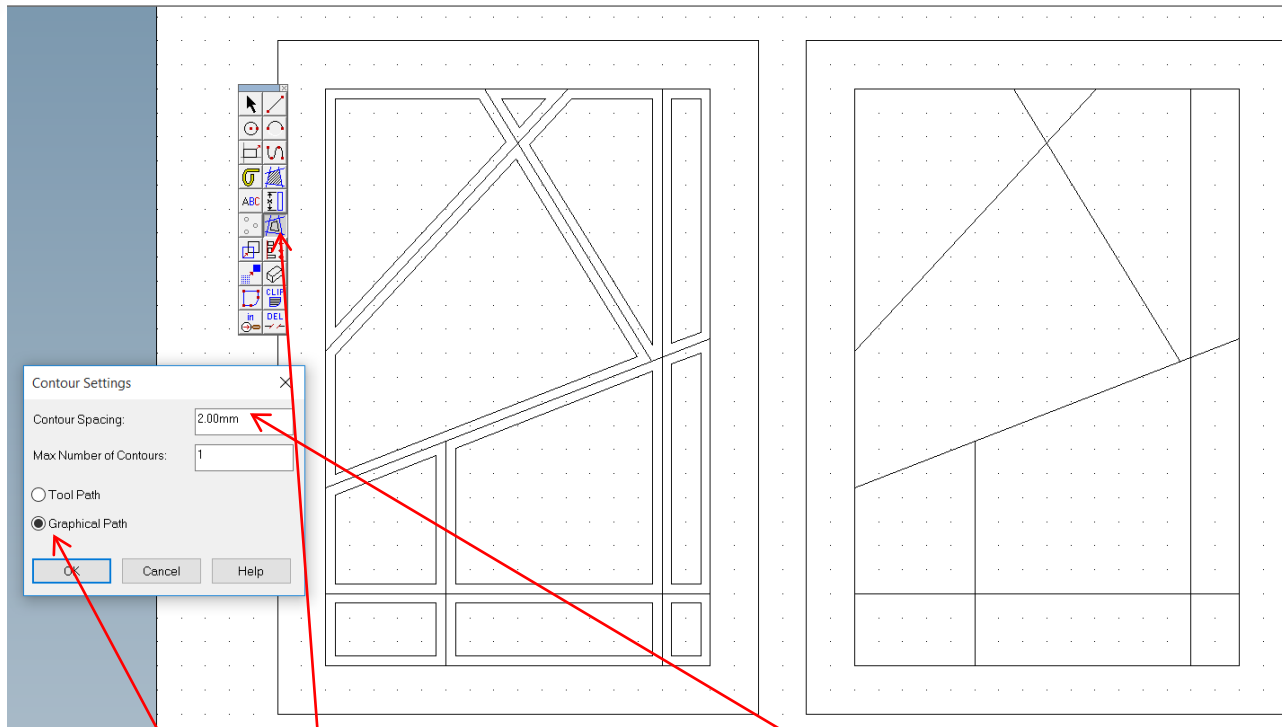
You can draw a simple clock by drawing a box shape then adding your contour window designs.

Follow these steps:

1. Select your who shape and copy and paste it once.

To Copy and Paste you need to select all of your shape by using keyboard shortcut - hold Ctrl key down and press the letter 'A', Then still hold Ctrl Press letter 'C' then letter 'V'. Use centre yellow square to move off your first window.

Step 6 - Contour one side



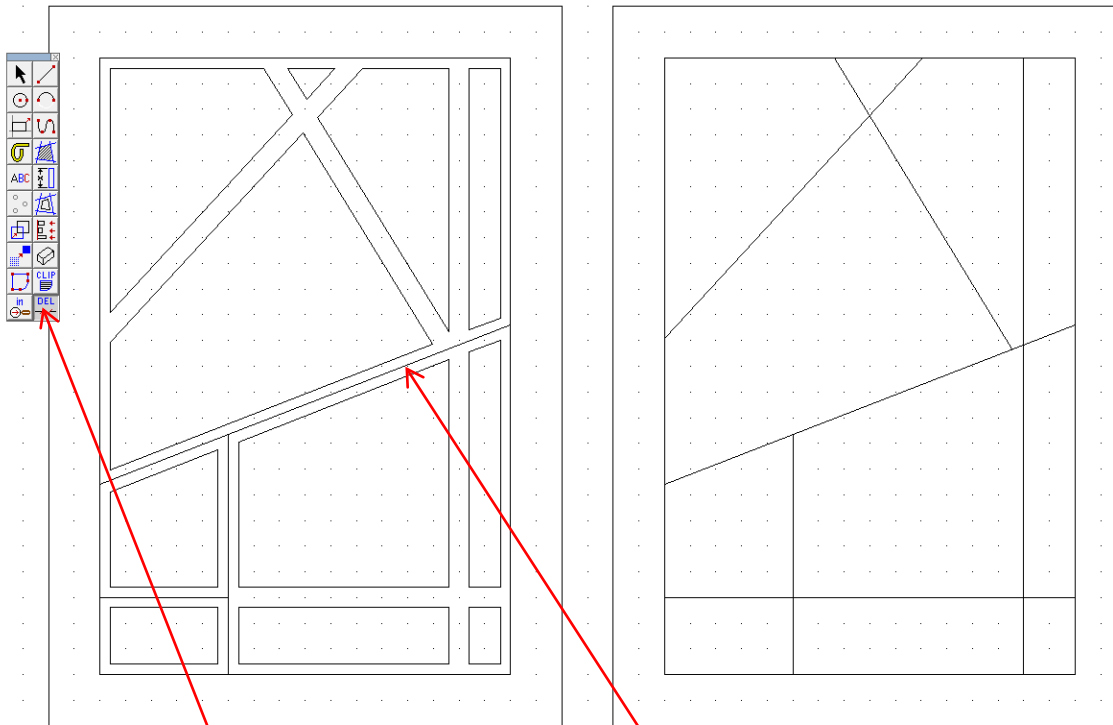
You can draw a simple clock by drawing a box shape then adding your contour window designs.

Follow these steps:

1. Use Contour Tool to contour just one window, leave the other with lines.

Choose 'Contour' Icon (wonky house), grid spacing 2mm and choose Graphic Path.

Step 7 - Delete construction lines



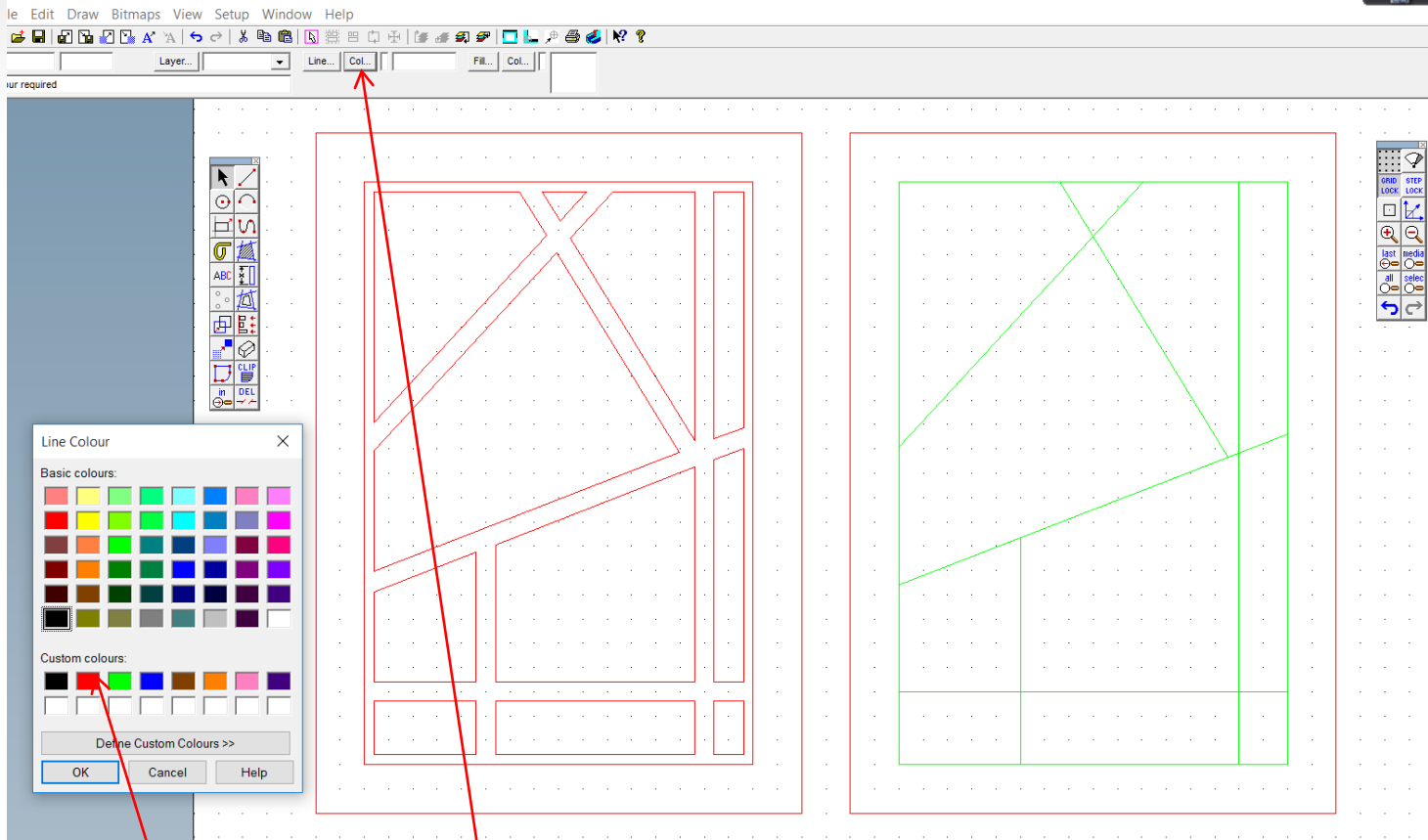
You can draw a simple clock by drawing a box shape then adding your contour window designs.

Follow these steps:

1. Choose 'Del' crossover (2 forward red slashes). Delete the construction lines.

Choose 'DEL', hover mouse over DEL ANY icon and hold right click on mouse down to show more options. Choose Del icon with 2 forward red slashes. Delete construction lines.

Step 10 - Colour lines



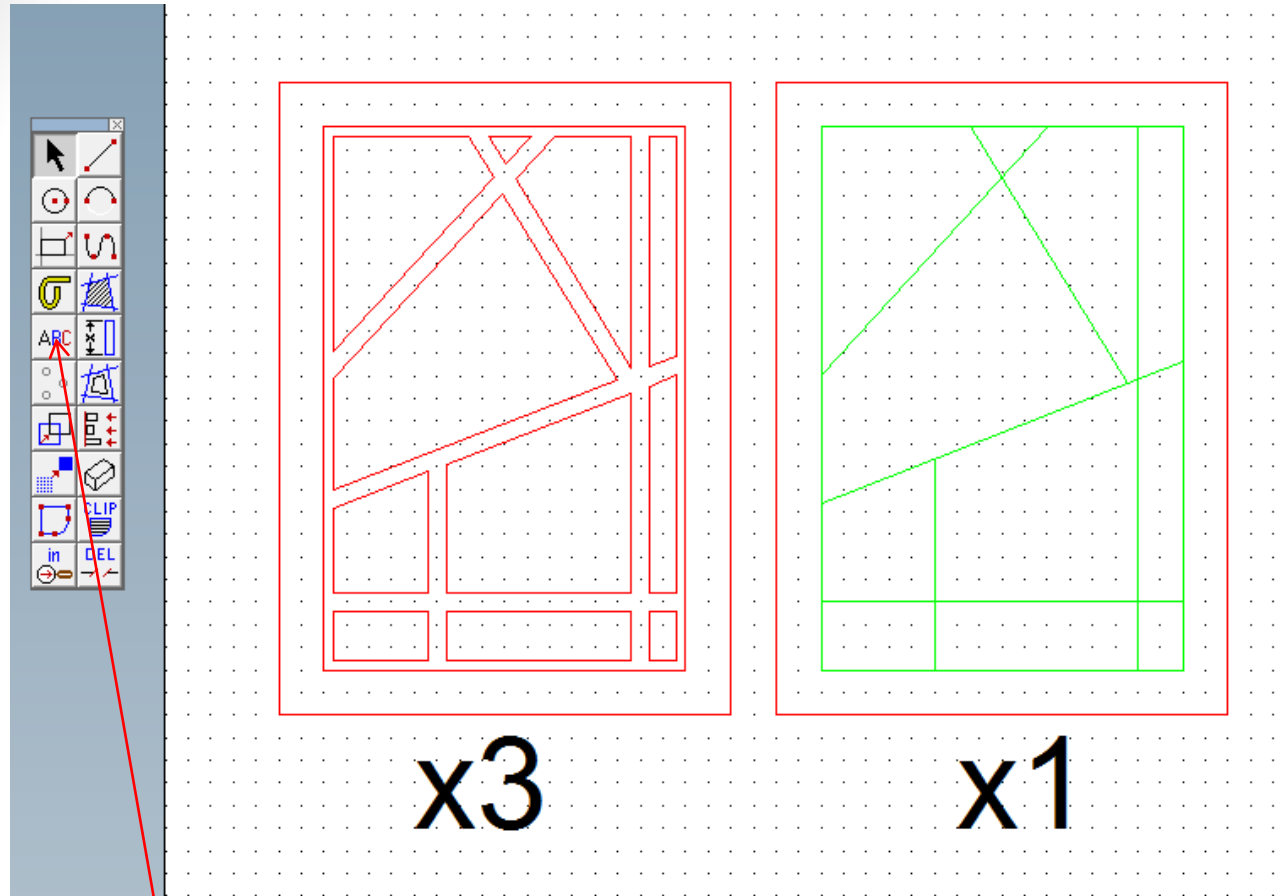
You can draw a simple clock by drawing a box shape then adding your contour window designs.

Follow these steps:

1. Colour your lines ready to laser cut - Red cut, green engrave.

Use Custom Colours in 'Col' tool

Step 9 - ABC tool.



You can draw a simple clock by drawing a box shape then adding your contour window designs.

Follow these steps:

1. Choose 'ABC' tool and write below contoured window x 3, and lined window x 1.
2. Save your model down, create a PowerPoint document and create three slides. Print Screen your 3 x models onto separate slides, upload to google drive.

ABC tool