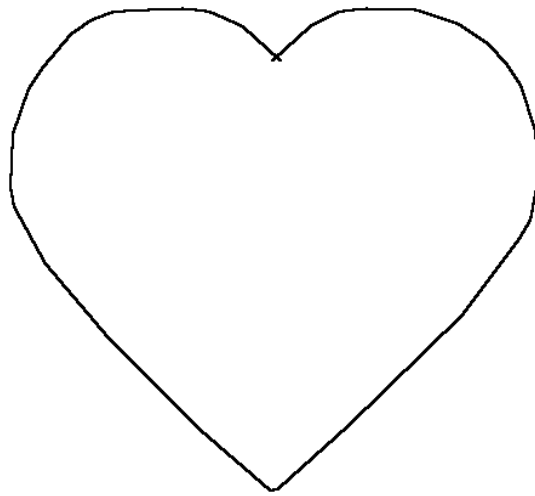
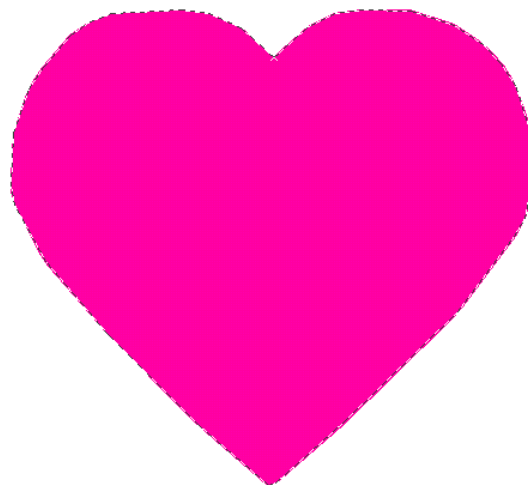


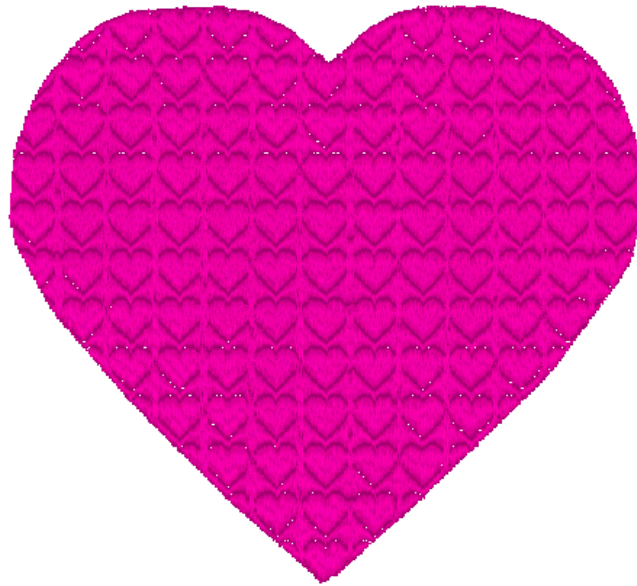
Using the Line Tool in Layout and Editing to Create Underlay.

- Create your design as you normally would in Design Center. For the purpose of this lesson I have used a simple heart.
- Save the design as you go. While the design is in the fourth stage of Design Center and is just showing the outline only, save the design as heartoutline.pem. Design Center automatically attributes the outline as soon as you open the design in the fourth stage and you need to de-select it if you do not need it.



- Finish your design and add the fill to it. Keep the outline, or de-select it if you do not want it.
- Save your design as a different file name e.g. heartfill.



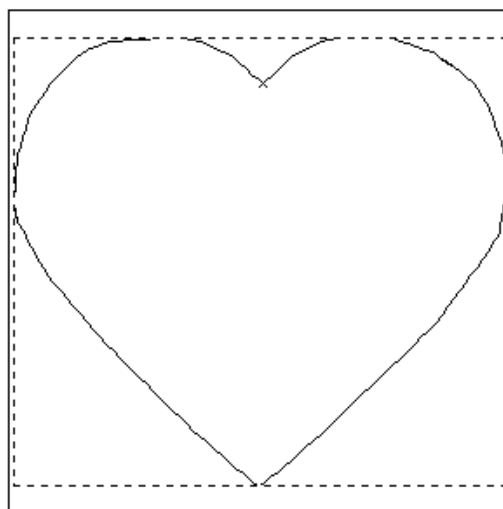


This is a view of how your design would sew out.

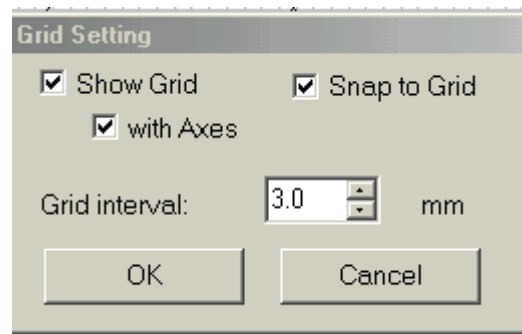
Now you have two pem files, one that is an outline only and one that is just fill.

- Go to File and open your heartoutline file again.
- Go to Option on the menu Bar and choose Layout and Editing.
- Layout and Editing will open.
- Go to File and choose Import from Design Center.
- Import the design heartoutline.

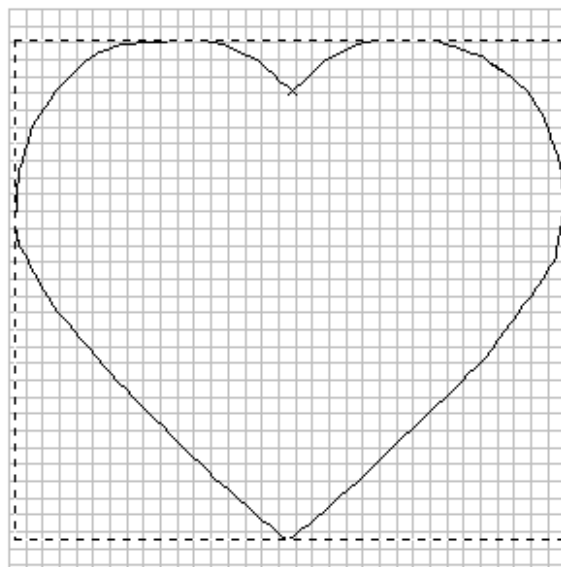
If you alter the size write down what size you changed it to.
The outline design should be on your screen.



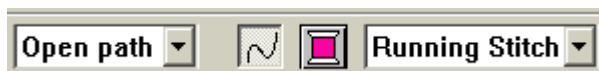
- Move to the Menu Bar and go to Display/Grid set-up.



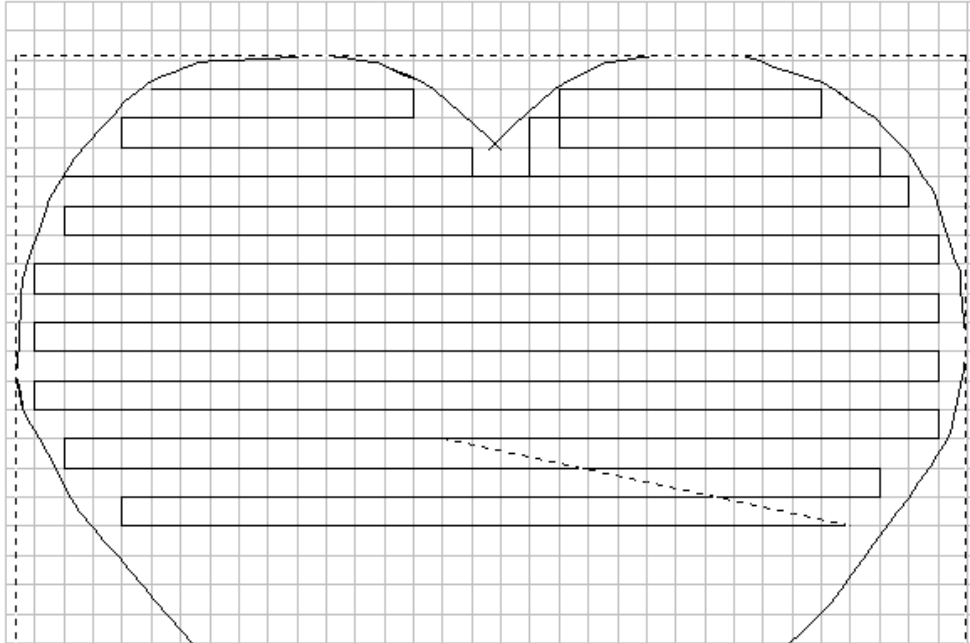
- Change you Grid setting to Show Grid and then choose a size.
- Tick Snap to Grid as this will make your placement easier. I have selected 3 mm size grid but you can make it smaller if you prefer. Your page will now look like this.



- Click on the Line Tool
- Change your settings to reflect mine.

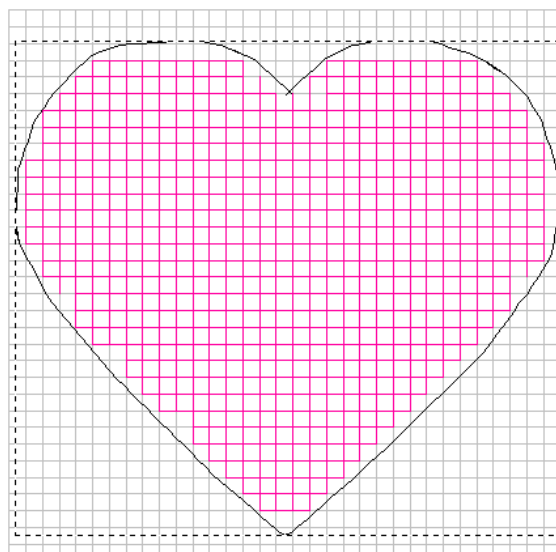


- Take your Line tool to the top left of the heart and click your way across the heart following the grid patterns. Check my examples below. You might prefer to zoom in on your design to make it easier on your eyes.



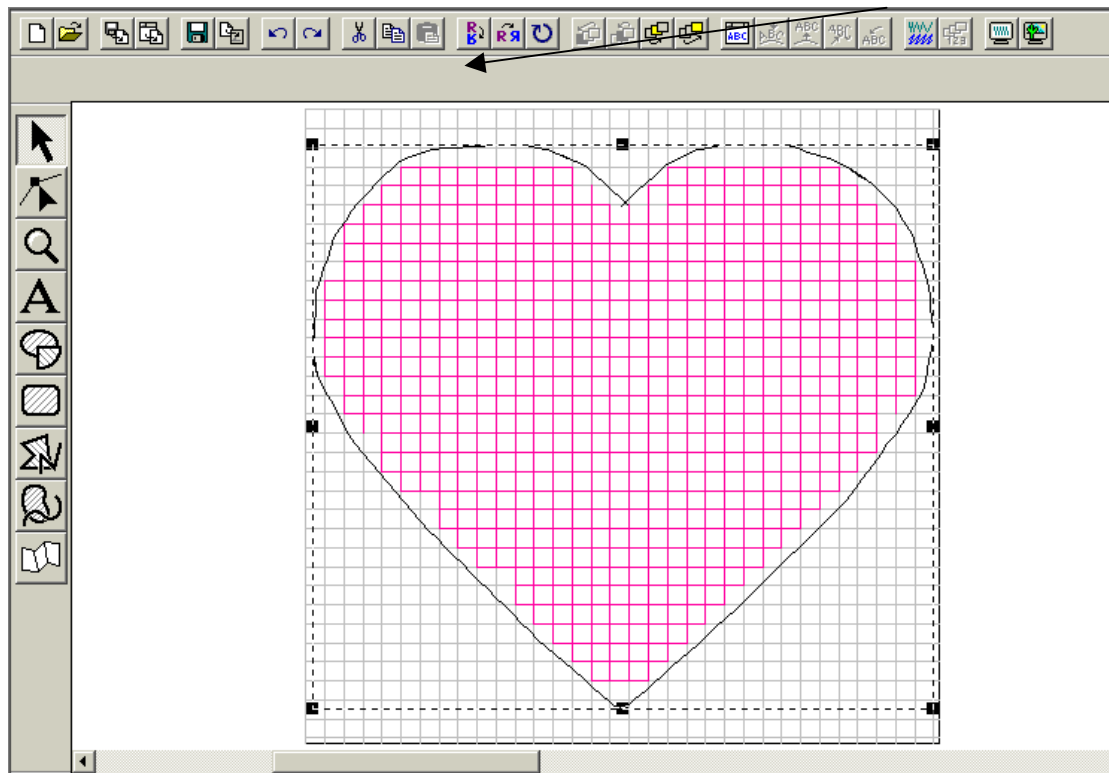
If you make a mistake as you are clicking right mouse click and this will undo your last move (or as many moves as you like if you keep right-mouse clicking).

Once you have reached the bottom of the design you can work your way up and down the page as well if you would like a heavier and more stable underlay.

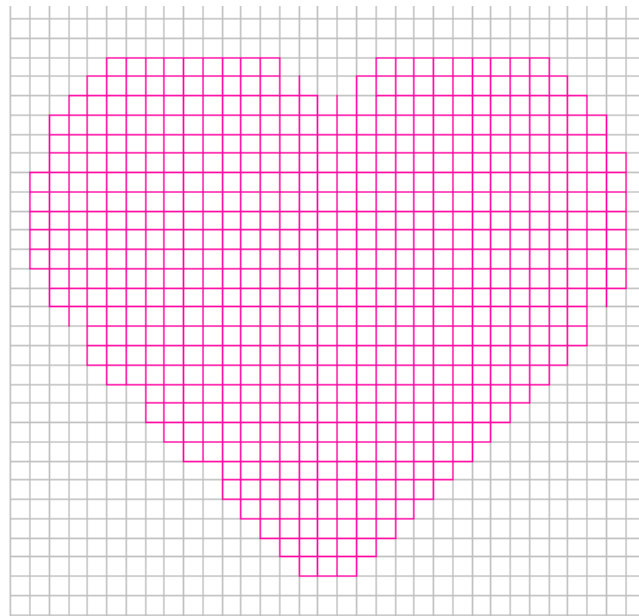


- Double click to disconnect the line. This is how it will look when you have finished.

Using your Select Tool select the outline that you imported from Design Center. Your page should look like my example. Make sure there are no Sewing attributes boxes showing under the Menu Bar.



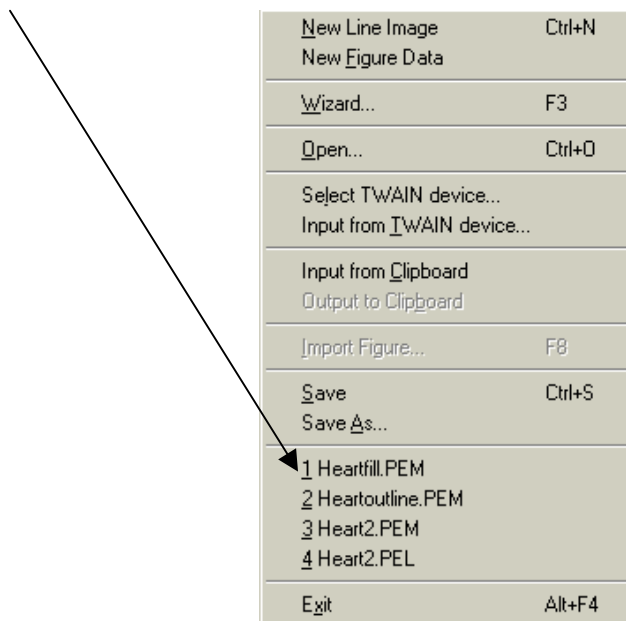
This will mean that your outline only is selected. Press **Delete** on your keyboard. This will delete the outline as you do not need or want it.



Your page should now look like the above. Save the design as heartunderlay.

- Return to Design Center. (it should be still minimized at the bottom of your screen.)

- Go to File and open Heartfill. (it should be at the bottom of the File box.)



- Go to Options and choose Layout and Editing. Layout and Editing will open again.
- Import the design from Design Center at the same size that you imported the first heart or a fraction larger if you wish.

The design will sit exactly on top of the first file that you have now turned into underlay.

- Go Edit/Select All.
- Then File/ Save as and give the design a new file name.

There you have it.
A file with your own underlay.

