Aspire 9.508 {Harvard University Science Center - MA}

File Gadgets Help

Aspire

Startup Tasks

Create a new file

Open an existing file

Recently opened files ...

ShopbotCut_03_threechairs.dxf

ShopbotCut_01.dxf

0924CUT_05.dxf

0924CUT_04.dxf

Video Tutorials

Tutorial Video Browser...

Online Resources

Vectric Web Site

Support Web Site

Vectric Forum

Vectric on Facebook

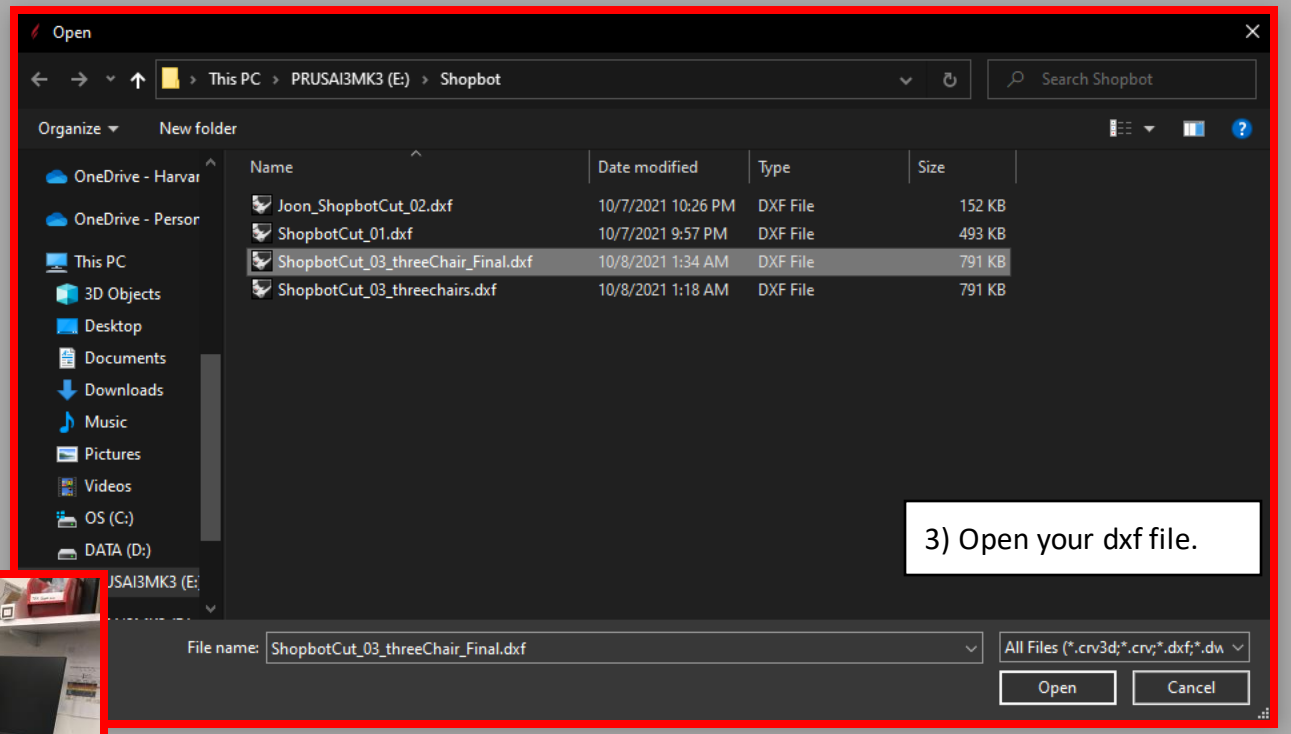
Vectric on Twitter

Clipart & Projects

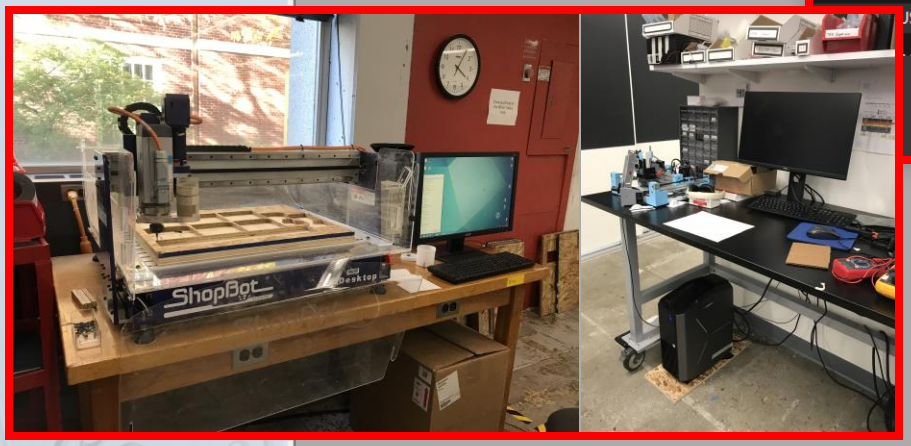
Design & Make

*Note : Before using Aspire, please prepare your cut design file and export in dxf file format. The sample file in this document includes three layers- 1) profile for 2mm depth engraving 2) profile for holes, and 3) profile for outmost edge of each parts.

2) Open an existing file



3) Open your dxf file.



1) Launch Aspire software, the program is installed in a computer besides ShopBot and an Alienware besides electronics.

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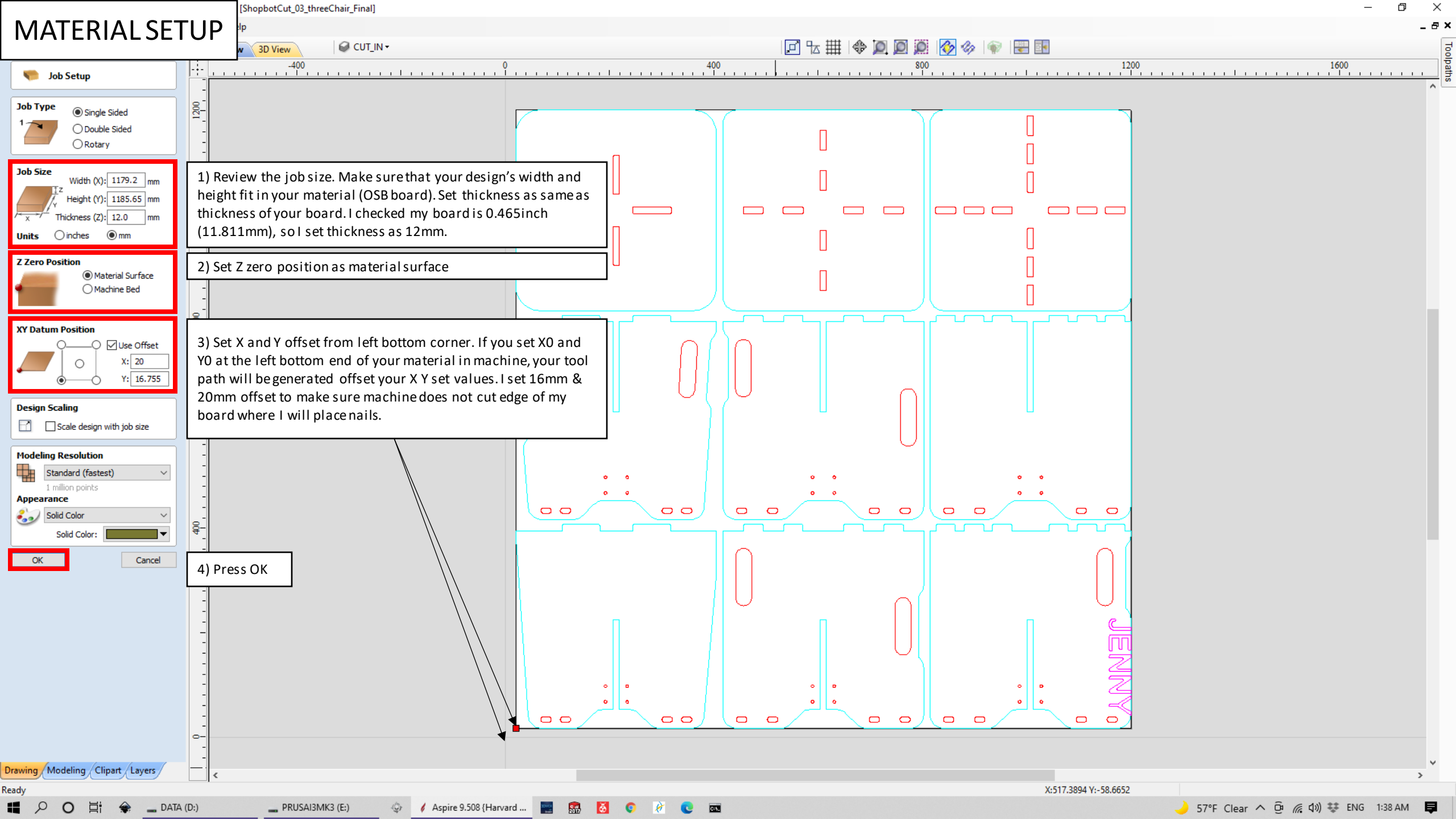
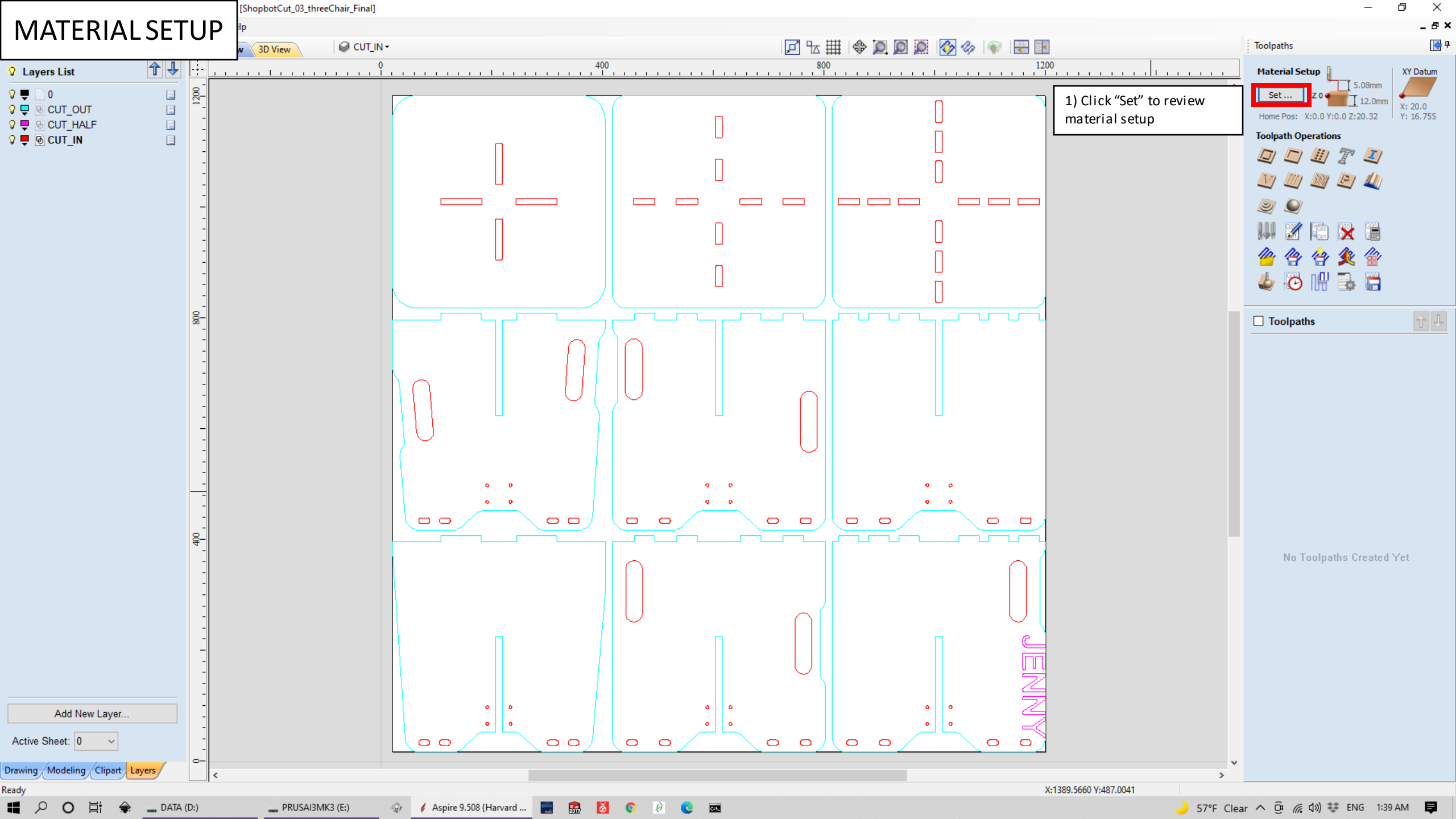
DATA (D:) PRUSAI3MK3 (E:) Aspire 9.508 {Harvard ... 57°F Clear ENG 1:36 AM

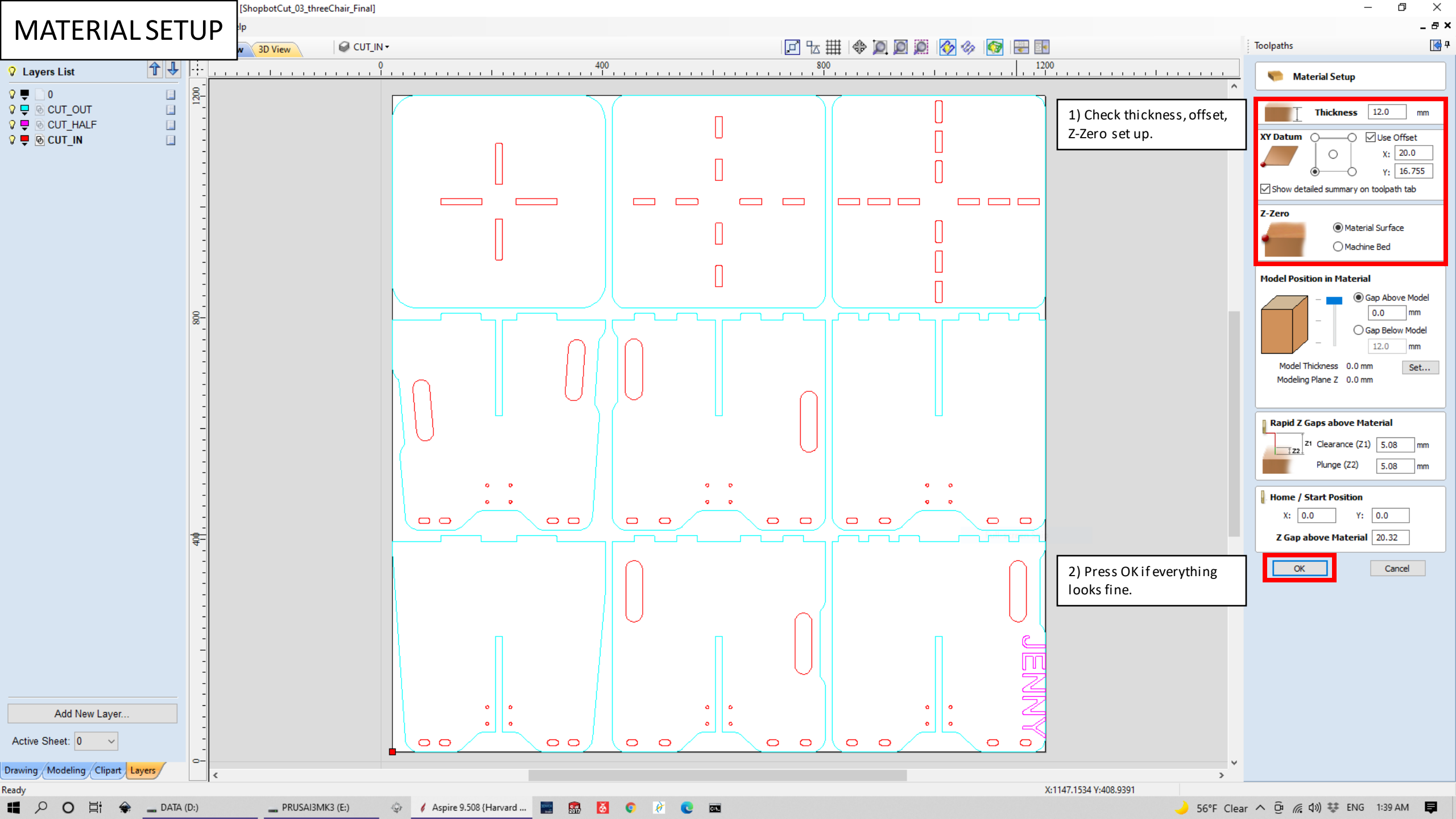
MATERIAL SETUP



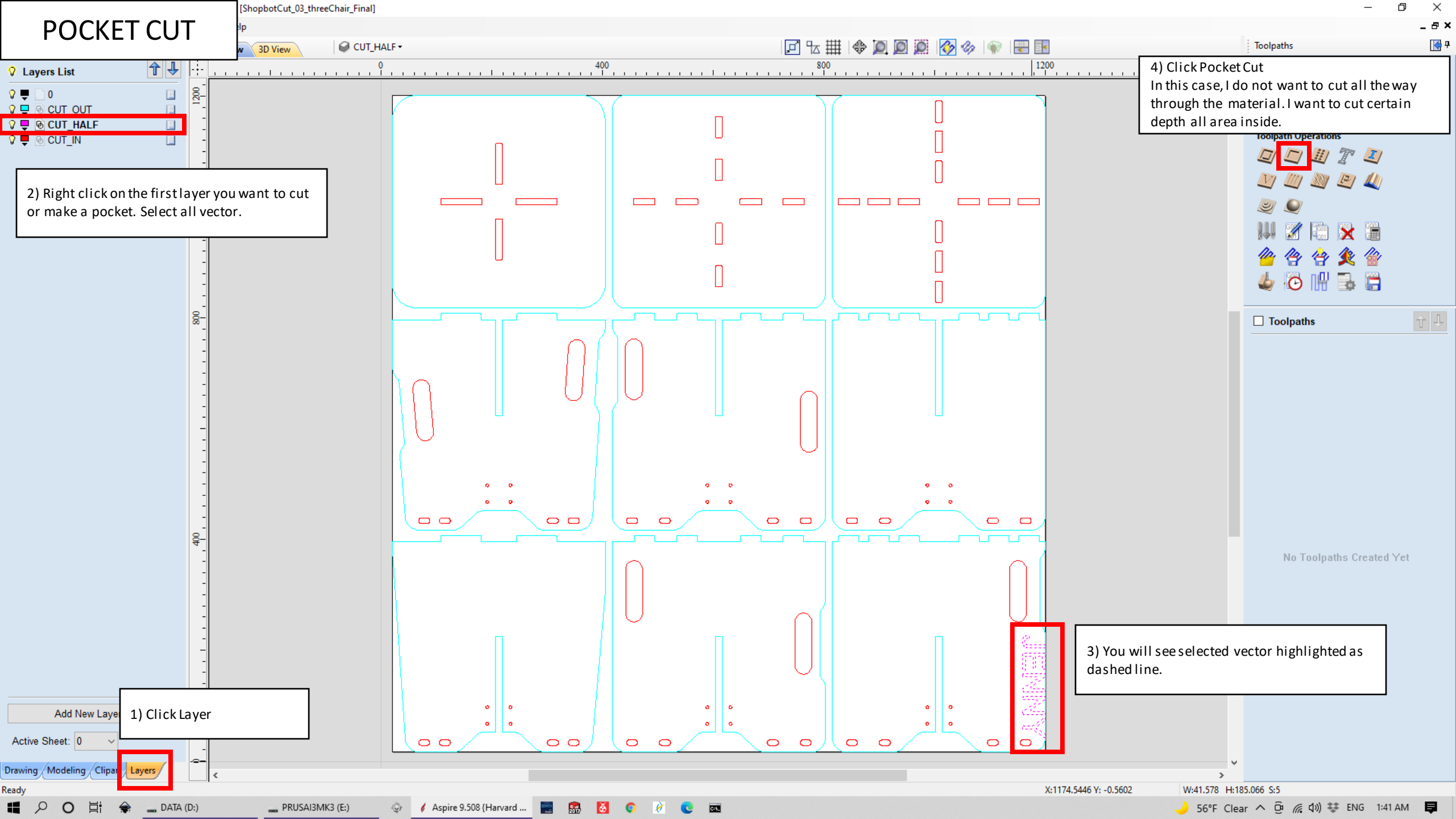
MATERIAL SETUP



MATERIAL SETUP



POCKET CUT


[ShopbotCut_03_threeChair_Final]
3D View
CUT_HALF
Layers List
0
CUT_OUT
CUT_HALF
CUT_IN
Toolpaths
Toolpath Operations
No Toolpaths Created Yet
2) Right click on the first layer you want to cut or make a pocket. Select all vector.
4) Click Pocket Cut
In this case, I do not want to cut all the way through the material. I want to cut certain depth all area inside.
3) You will see selected vector highlighted as dashed line.
1) Click Layer
Add New Laye
Active Sheet: 0
Drawing
Modeling
Clipar
Layers
Ready
X:1174.5446 Y: -0.5602
W:41.578 H:185.066 S:5
DATA (D:)
PRUSAI3MK3 (E:)
Aspire 9.508 {Harvard ...
56°F Clear
ENG
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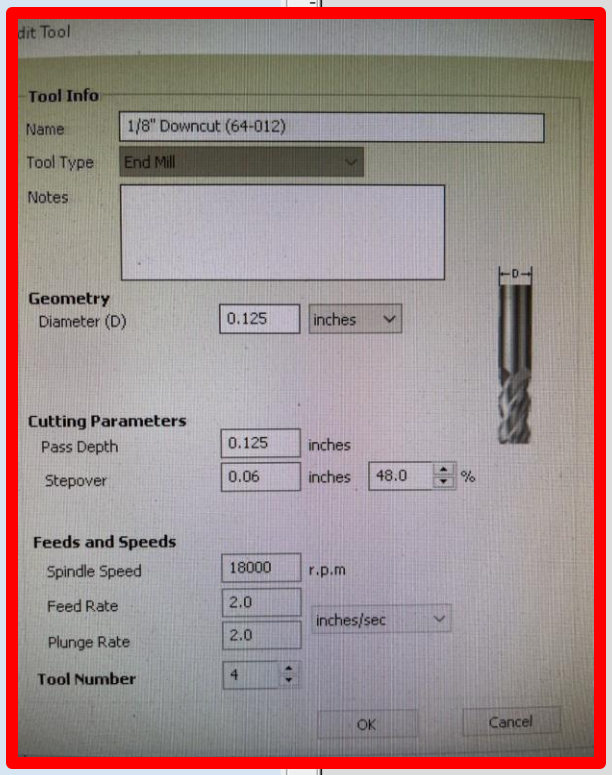
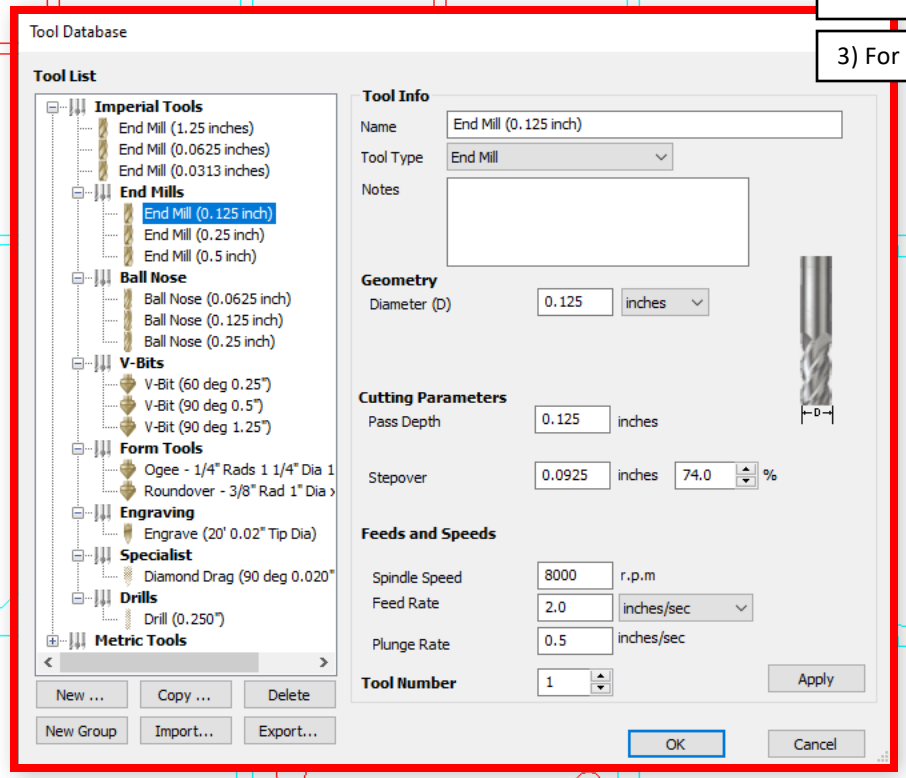
POCKET CUT

1) Make sure that you are in right function, in this case Pocket Toolpath.

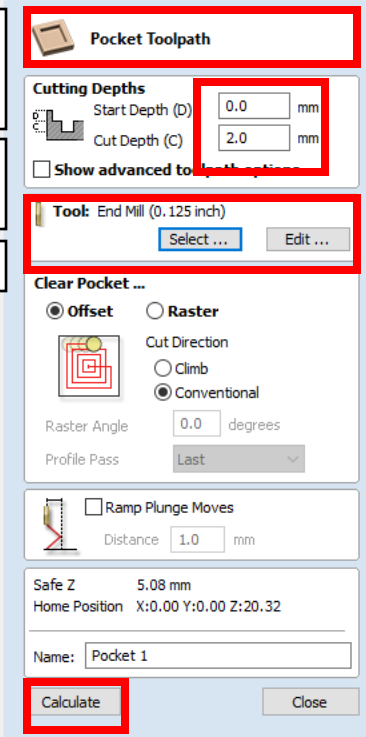
2) Set up Cut depth as you wish. The number must be smaller than your material thickness.

3) For tool, click select



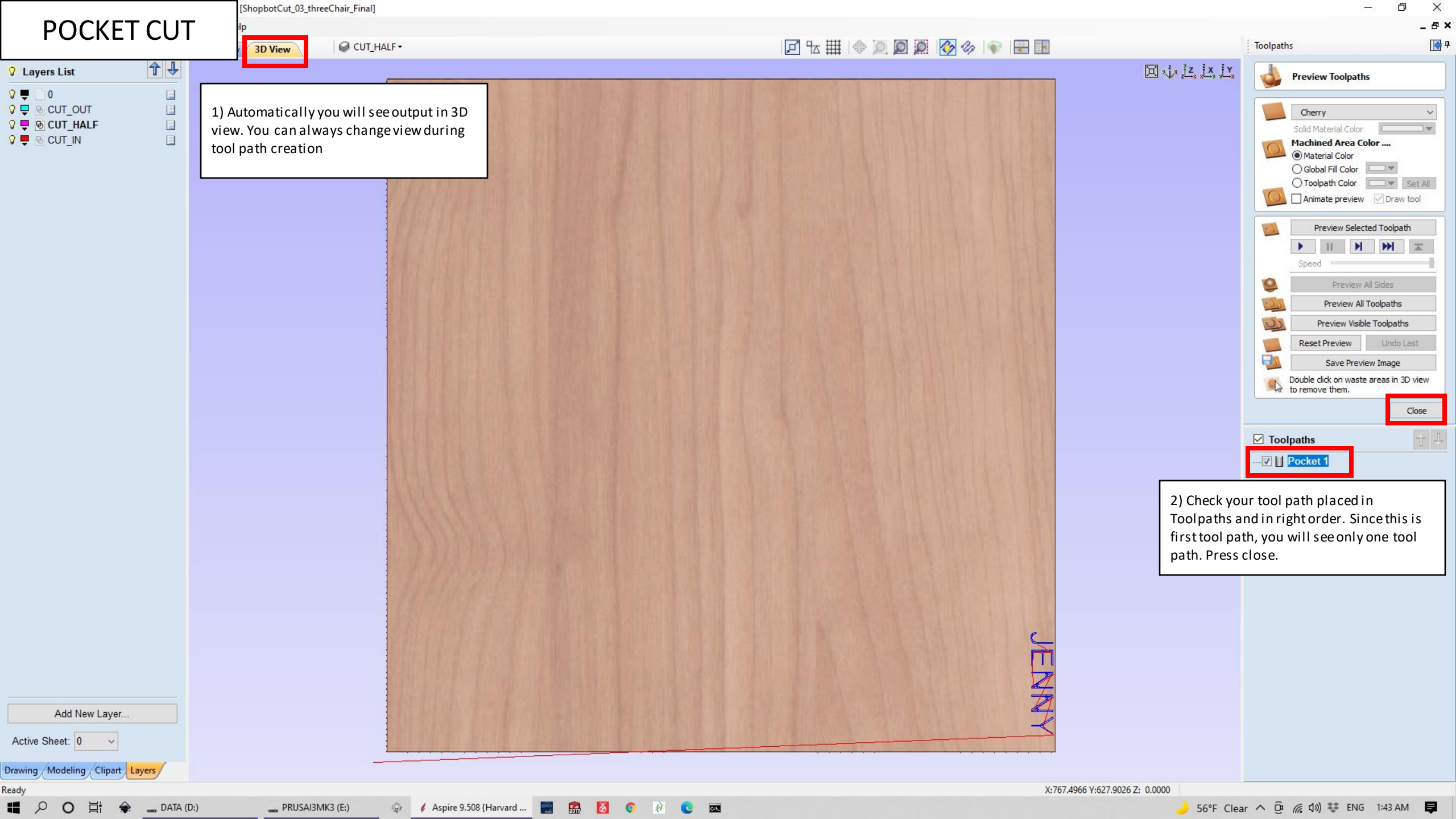


4) Set up size, type, feeds and speeds of your drill bit. See sample set up from Daniel on the left. Press okay.

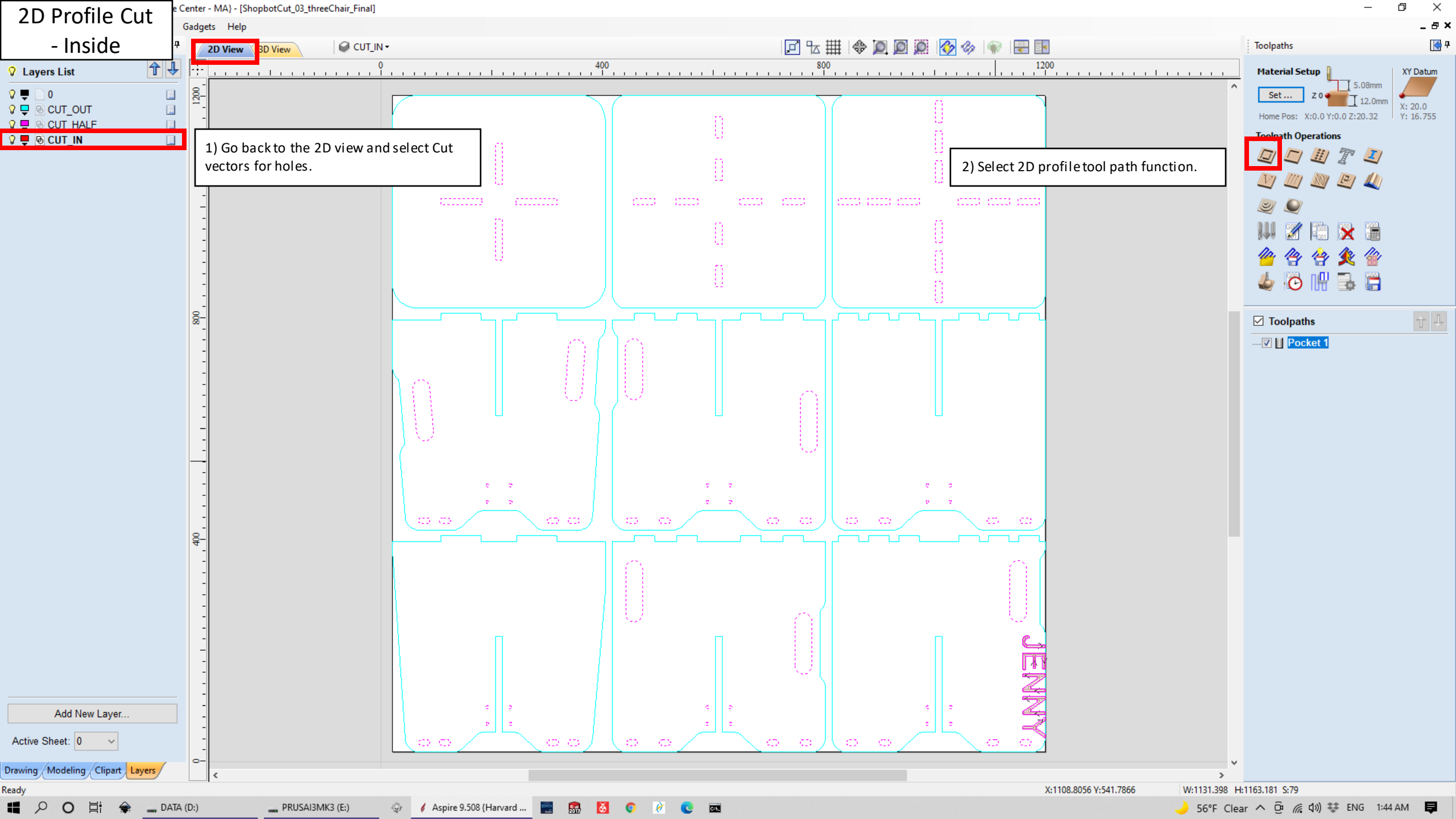


5) Press calculate

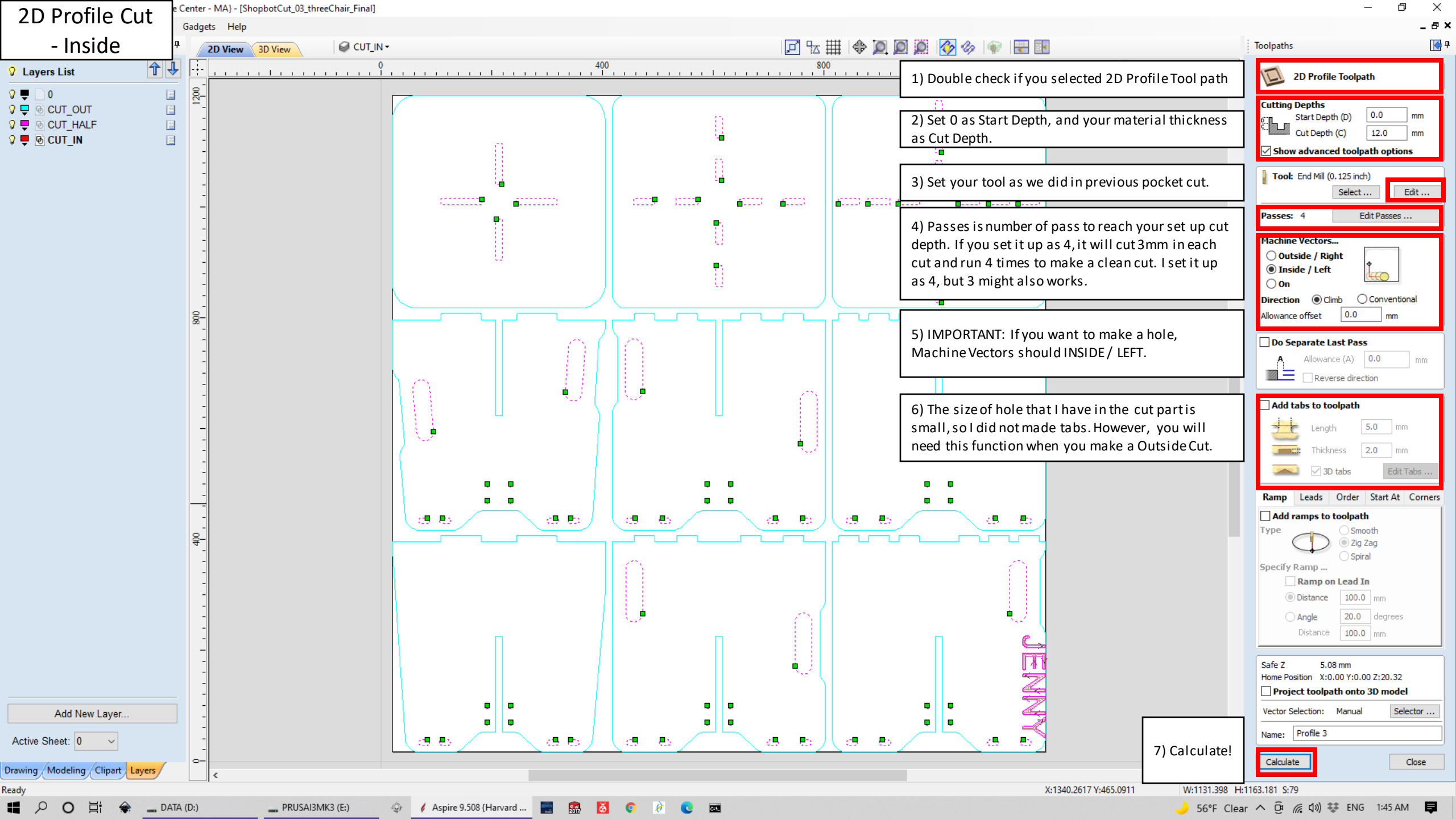
POCKET CUT


[ShopbotCut_03_threeChair_Final]
3D View
CUT_HALF
Layers List
0
CUT_OUT
CUT_HALF
CUT_IN
1) Automatically you will see output in 3D view. You can always change view during tool path creation
Toolpaths
Preview Toolpaths
Cherry
Solid Material Color
Machined Area Color ....
Material Color
Global Fill Color
Toolpath Color
Set All
Animate preview
Draw tool
Preview Selected Toolpath
Speed
Preview All Sides
Preview All Toolpaths
Preview Visible Toolpaths
Reset Preview
Undo Last
Save Preview Image
Double click on waste areas in 3D view to remove them.
Close
Toolpaths
Pocket 1
2) Check your tool path placed in Toolpaths and in right order. Since this is first tool path, you will see only one tool path. Press close.
JENNY
Add New Layer...
Active Sheet: 0
Drawing
Modeling
Clipart
Layers
Ready
X:767.4966 Y:627.9026 Z: 0.0000
DATA (D:)
PRUSAI3MK3 (E:)
Aspire 9.508 {Harvard ...
56°F Clear
ENG
1:43 AM

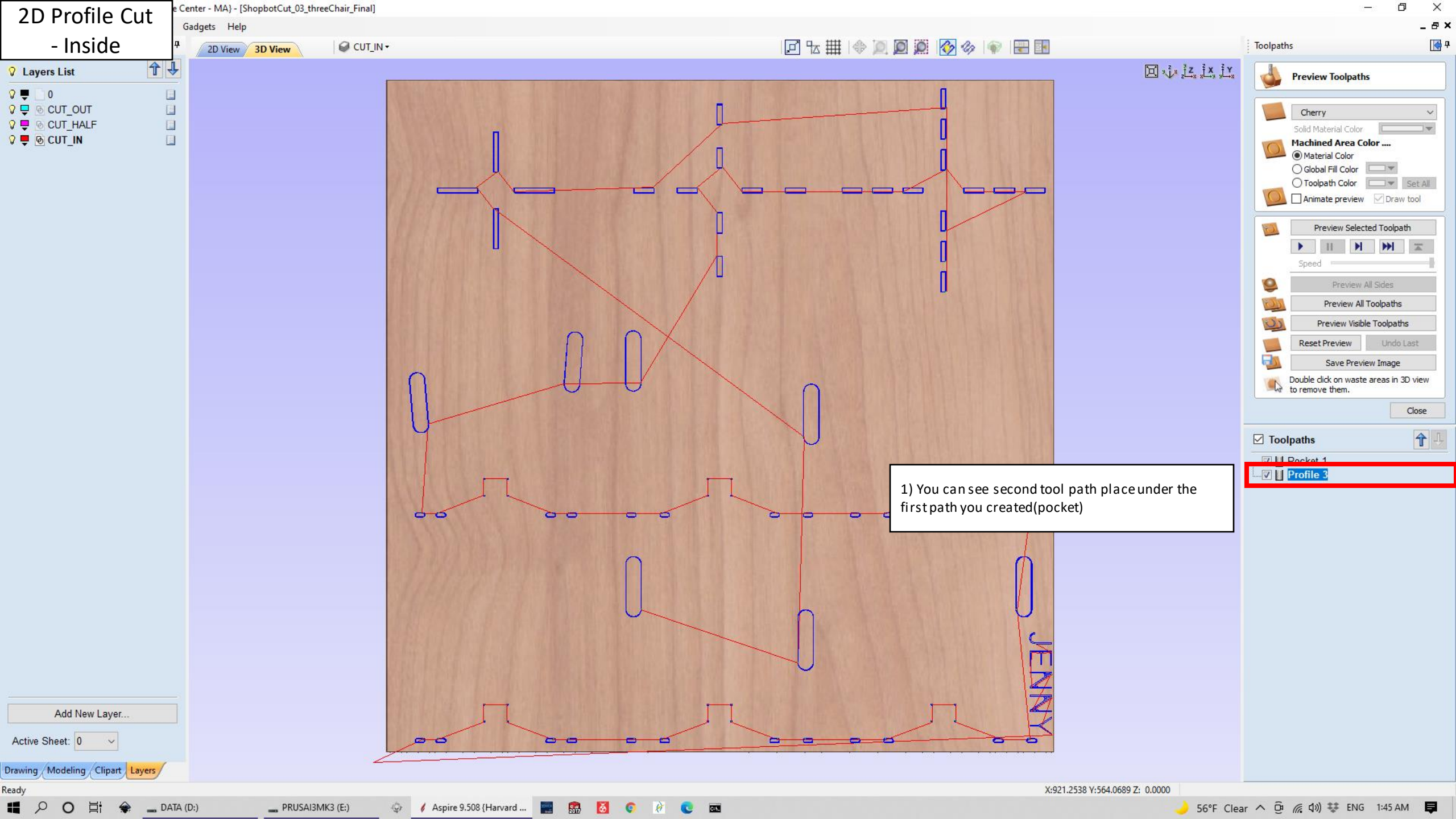
2D Profile Cut - Inside



2D Profile Cut - Inside



2D Profile Cut - Inside



2D Profile Cut - Outside

1) Go to 2D view and select vectors in the last layer. In this layer, I place outer edges of my parts

2) Select 2D Profile Tool path function, as we did in previous step.

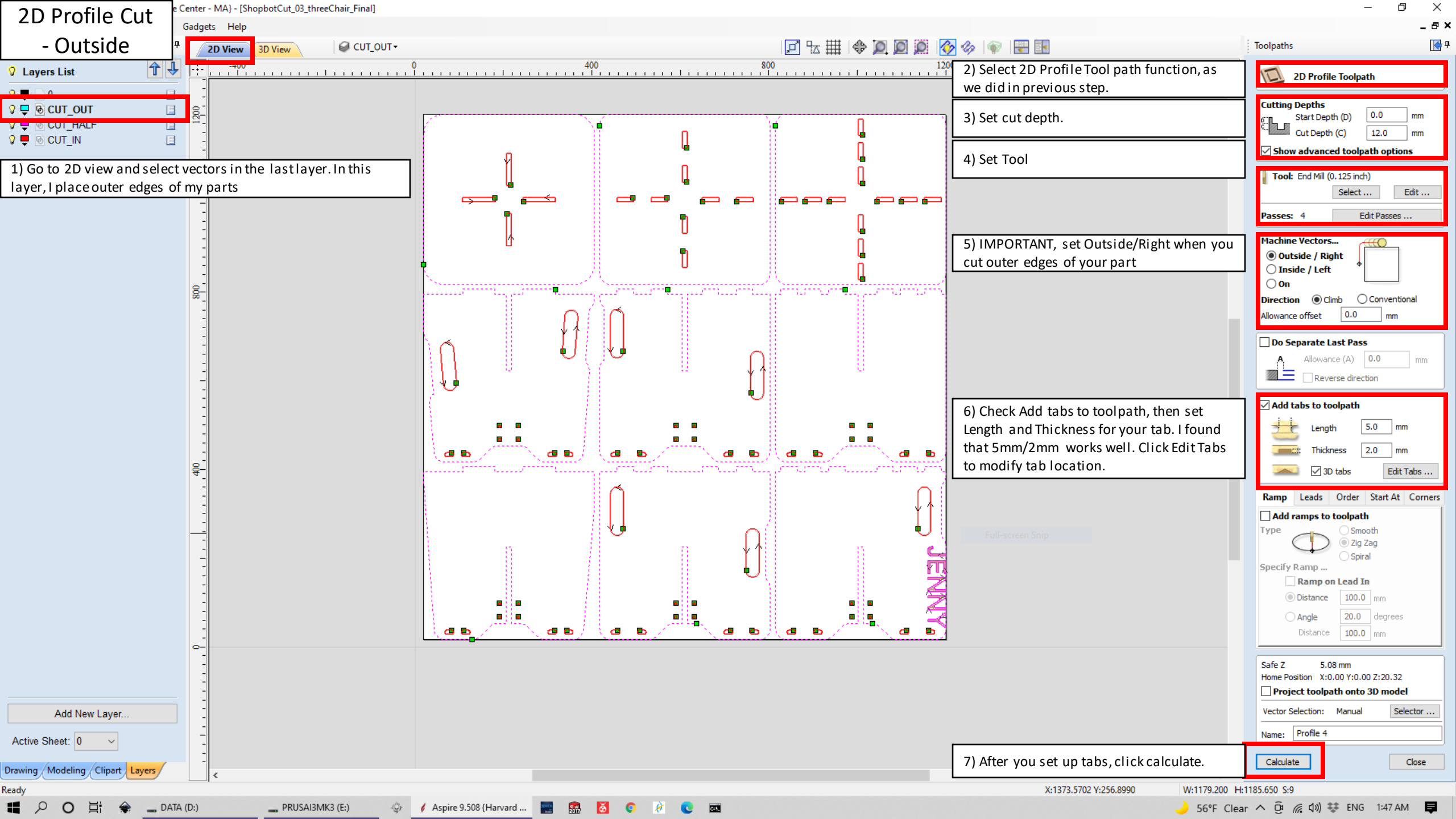
3) Set cut depth.

4) Set Tool

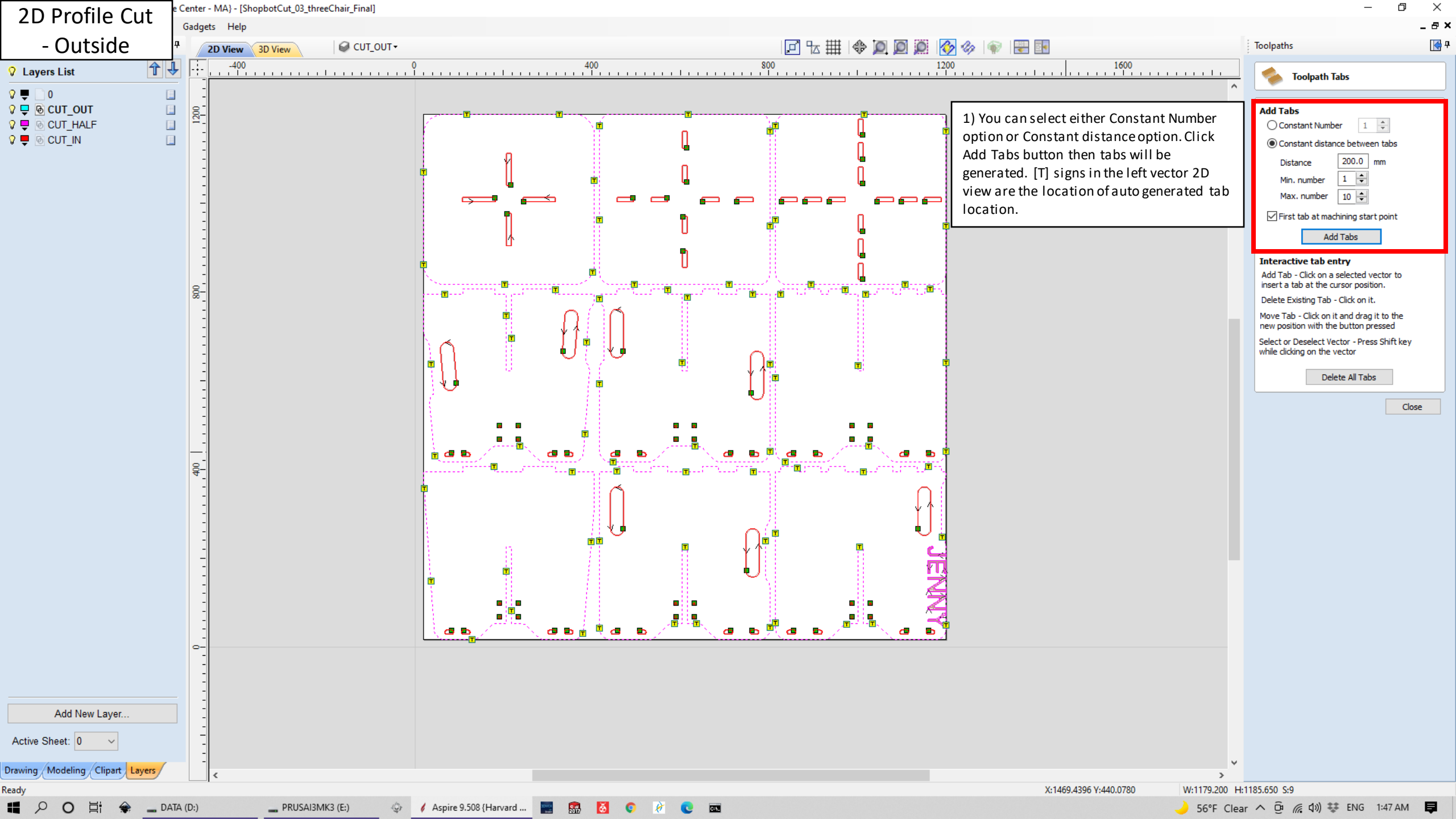
5) IMPORTANT, set Outside/Right when you cut outer edges of your part

6) Check Add tabs to toolpath, then set Length and Thickness for your tab. I found that 5mm/2mm works well. Click Edit Tabs to modify tab location.

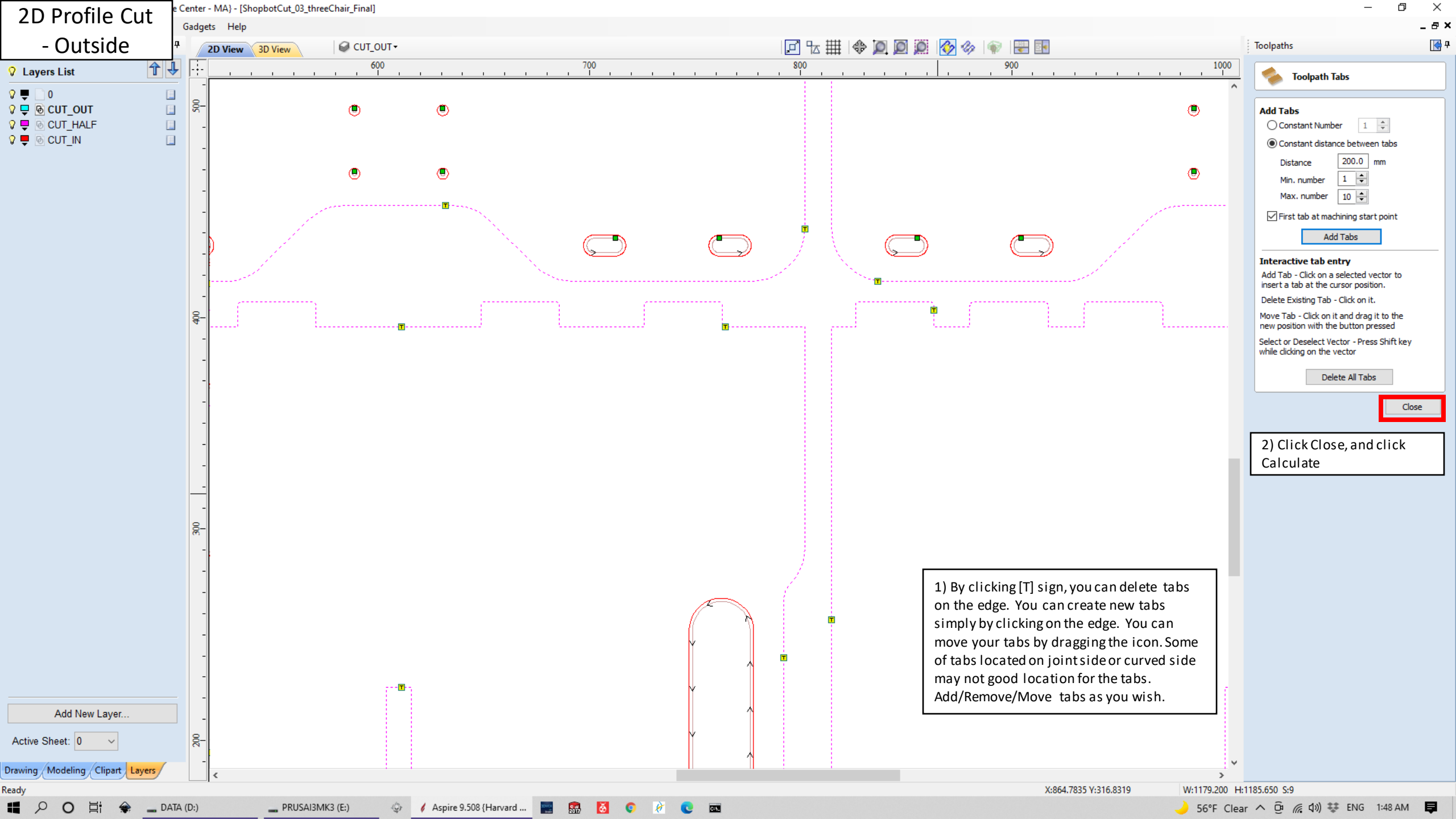
7) After you set up tabs, click calculate.



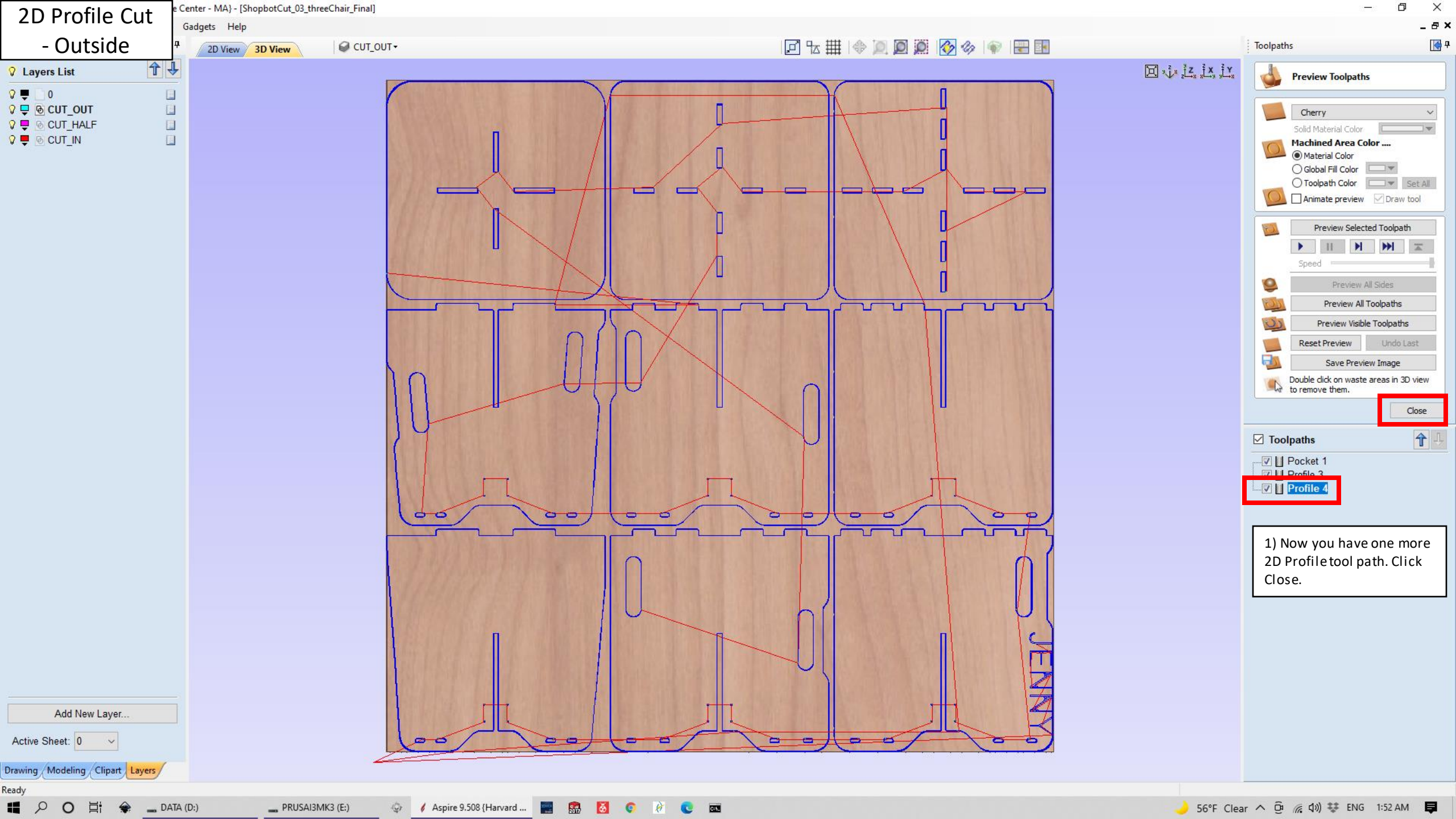
2D Profile Cut - Outside



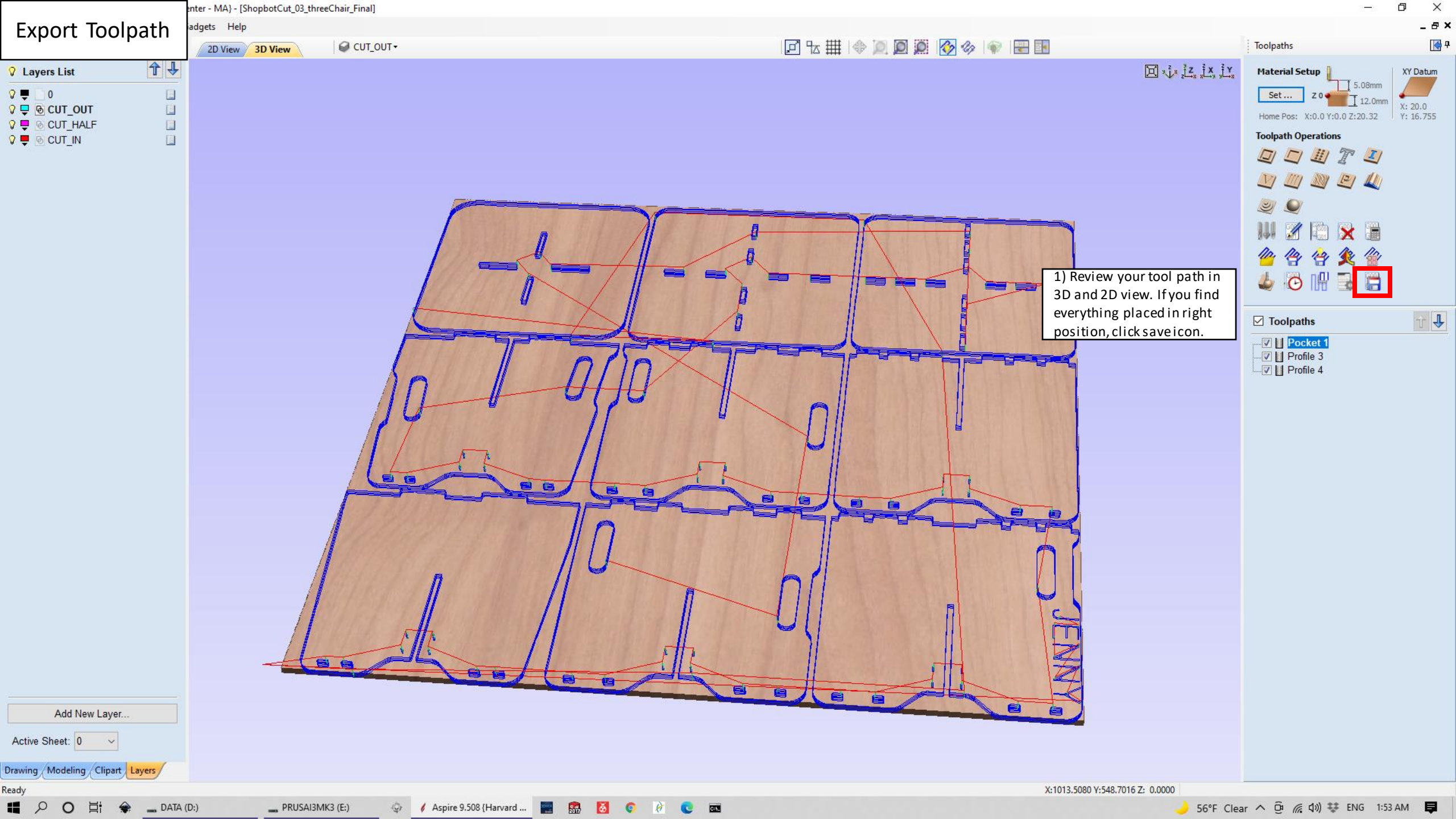
2D Profile Cut - Outside



2D Profile Cut - Outside



Export Toolpath



Export Toolpath