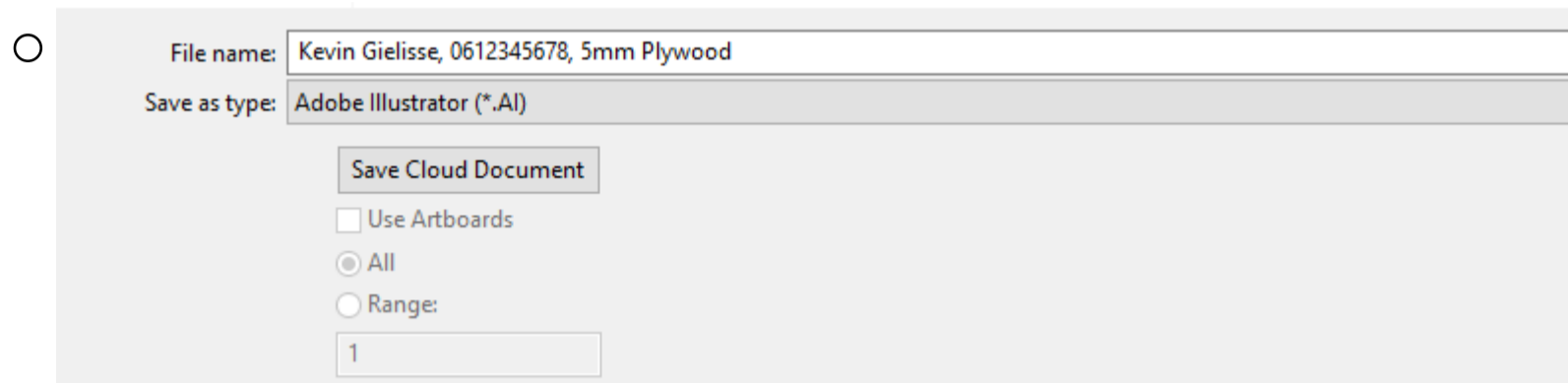


## Lasercutting: (how to make it happen)

- Make sure that your coach is on board with you using the lasercutting facilities.
- USB-drive with the correct adobe illustrator file on it and put the following info in the filename: (your name, phone number, material and thickness, course info)

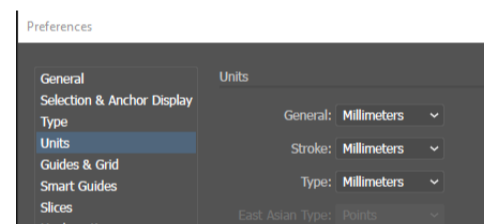


(I didn't have any course info)

- Bring the material (USB drive taped to it)
- Submitting your file can be done Mon-Friday from 08:30 – 09:30

## Designing a file for laser cutting: PMB (Trotec CO2 laser)

- Start Adobe Illustrator
- Make sure that in "Settings" the Units are in Millimeters:



- Make a new file with the following settings:

Artboard size: 1200 Width

700 Height

Orientation: Landscape

Artboards: 1

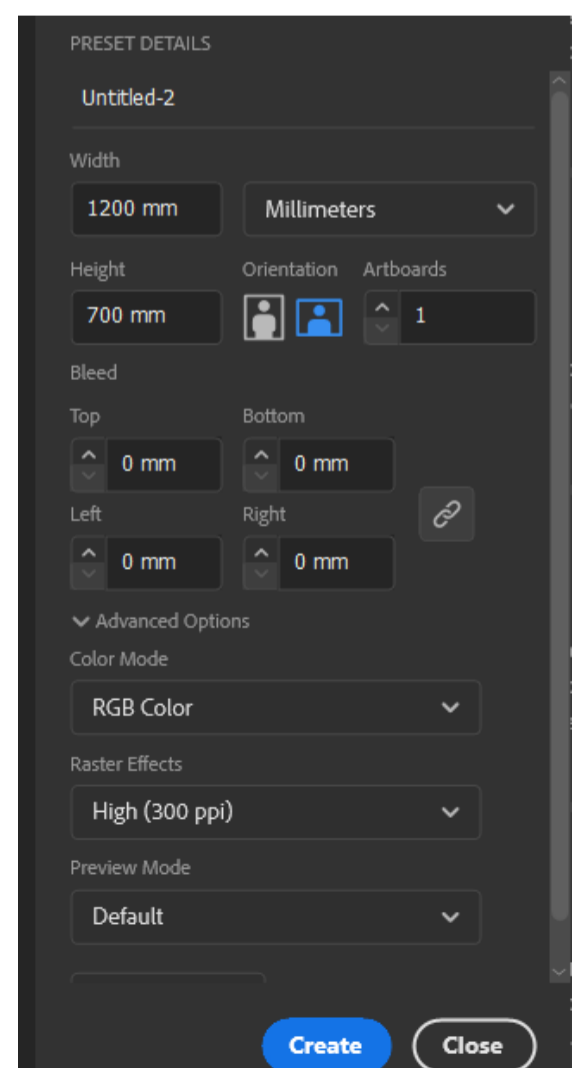
Bleed: 0 mm (top, bottom, left and right all 0)

Color Mode: RGB Color

Raster Effects: High (300 ppi)

Or... use the template

For future use it might be a good idea to save the preset/template



- Design with:
  - o Cutting: 0,01 mm lines in **RGB Red** (or #FF0000)
  - o Engraving: Shapes, infill with RGB black (or #000000)
  - o Outline engraving: 0,01 mm lines in **RGB Blue** (or #0000FF) and inform the staff about this!
- Save your file with enough information in the name:

<b>File name:</b>	Kevin Gielisse, 0612345678, 5mm Plywood
<b>Save as type:</b>	Adobe Illustrator (*.AI)

#### Common issues:

- Check for double lines (the software will "see" the line underneath and WILL go over it again, resulting in extra burned material)
- Importing from CAD software is faulty, it is not directly translated for laser cutting (i.e. chamfered edges will be included in the design but the laser can't cut that. And we will not laser cut the design)
- Engraving takes a lot of laser cutting time so if the design allows it, consider using outline engraving for faster results.
- Delete any clipping masks because the laser cut software does not work well with any of them in the file.
- Fonts? Select text, click right mouse button, "Create Outlines". Now it is a shape and we can work with it. We do not have all of the fancy fonts that are out there so making it a shape will provide the correct shapes instead of a font our Illustrator cannot recognize.
- Our laser cutter software does not work with opacity changes so keep everything at 100% visibility.