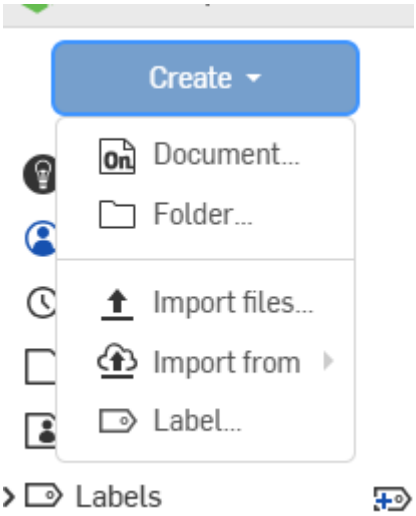
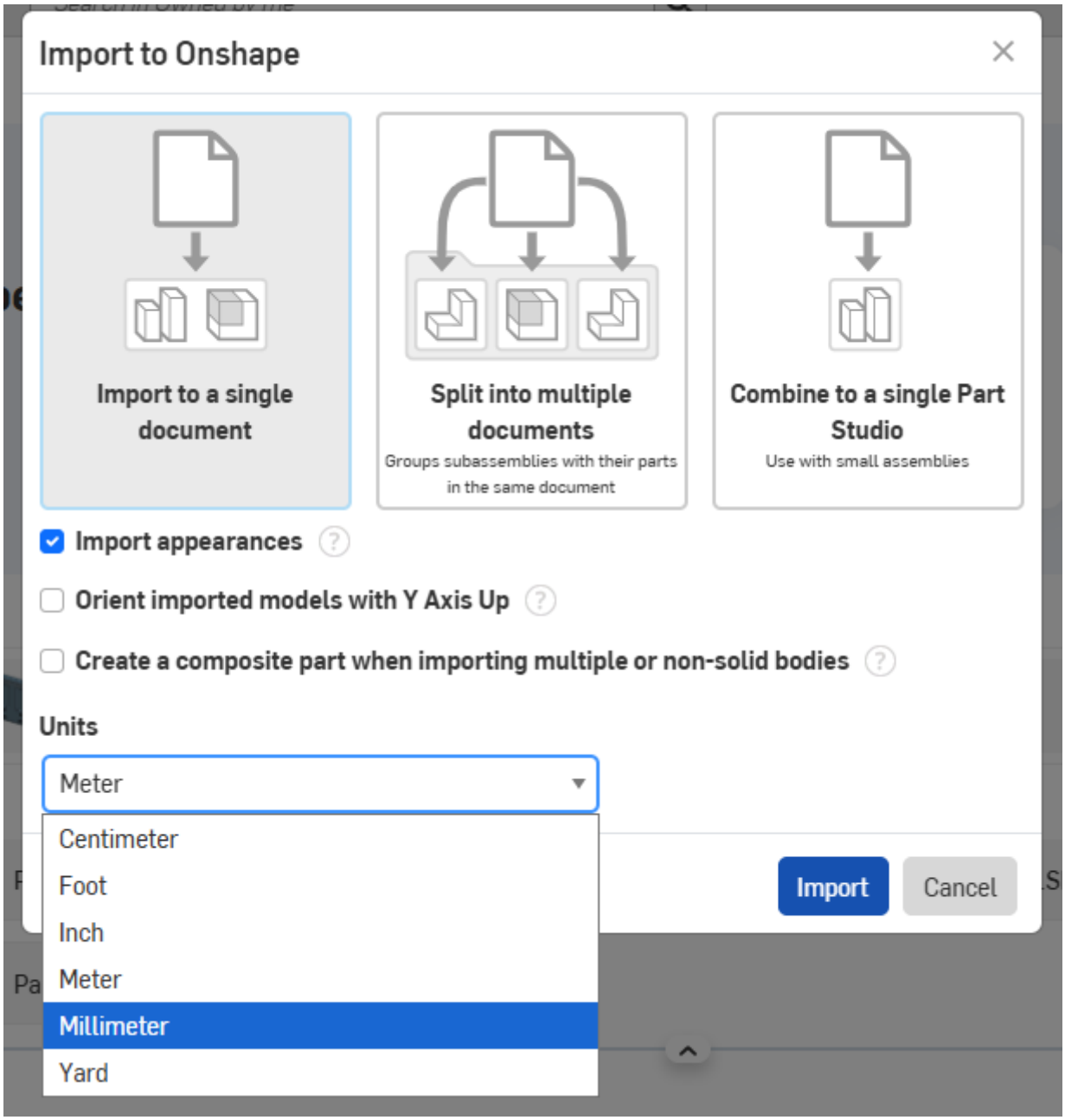
Truss OBJ files to 3D Print - CVEN1317

OBJ into OnShape and Export STL

Sign into OnShape then press Create -> Import files



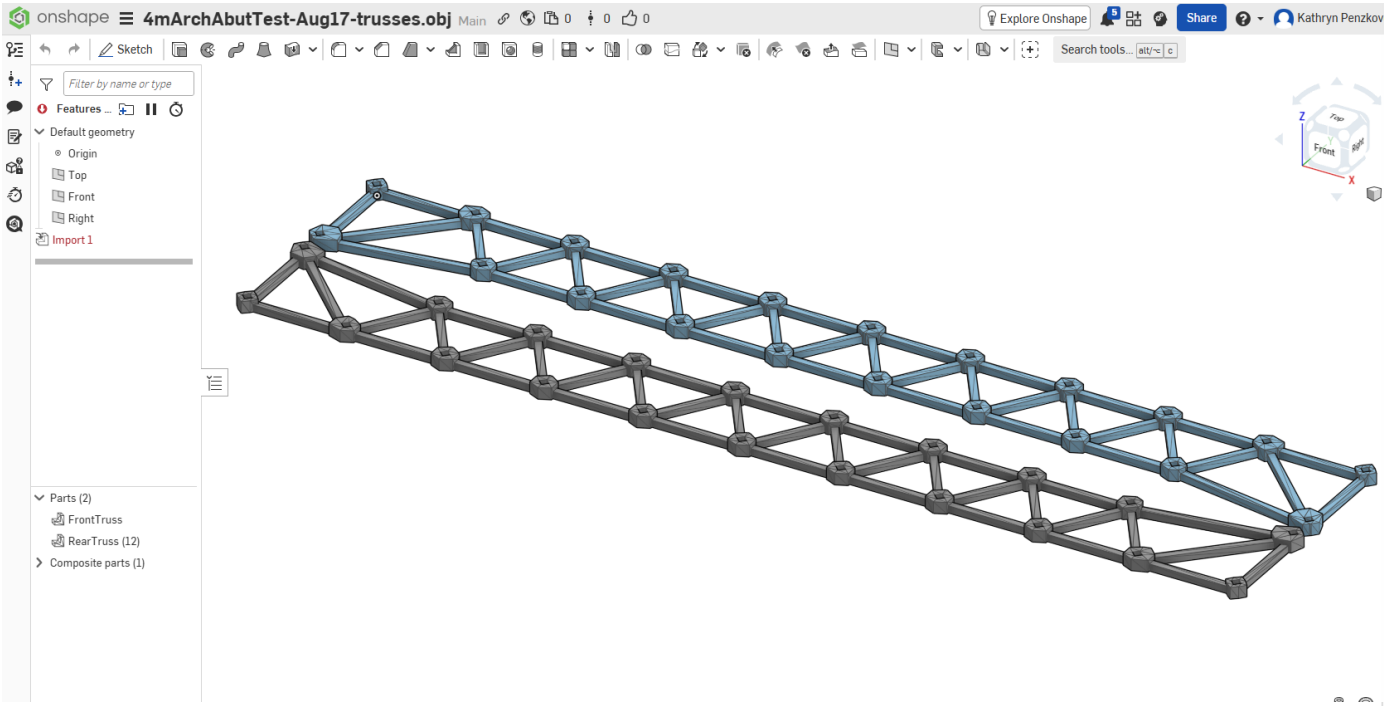
You can import the files all at once (make sure to switch the units to Millimeter)



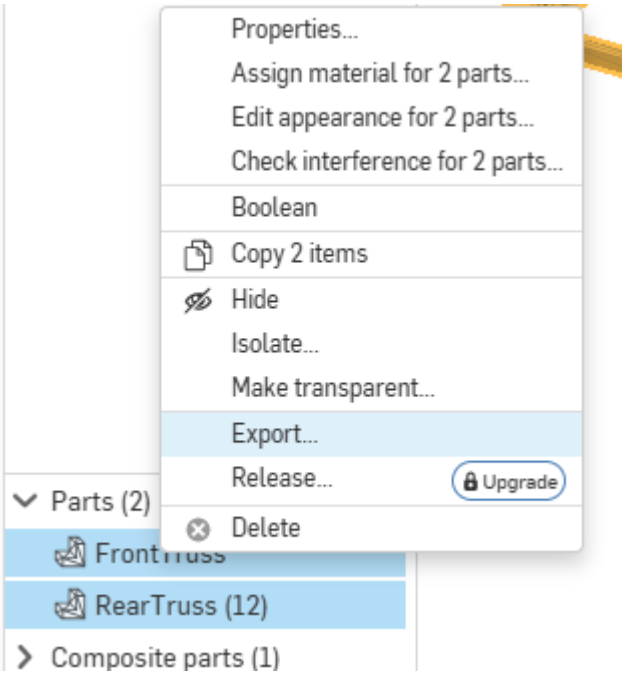
They will show up in your list:

Name	Modified	Modified by	Owned by
4mArchAbutTest-Aug... Main	9:35 AM Today	me	me
4mArchAbutTest-Aug... Main	9:35 AM Today	me	me
4mArchAbutTest-Aug... Main	9:35 AM Today	me	me

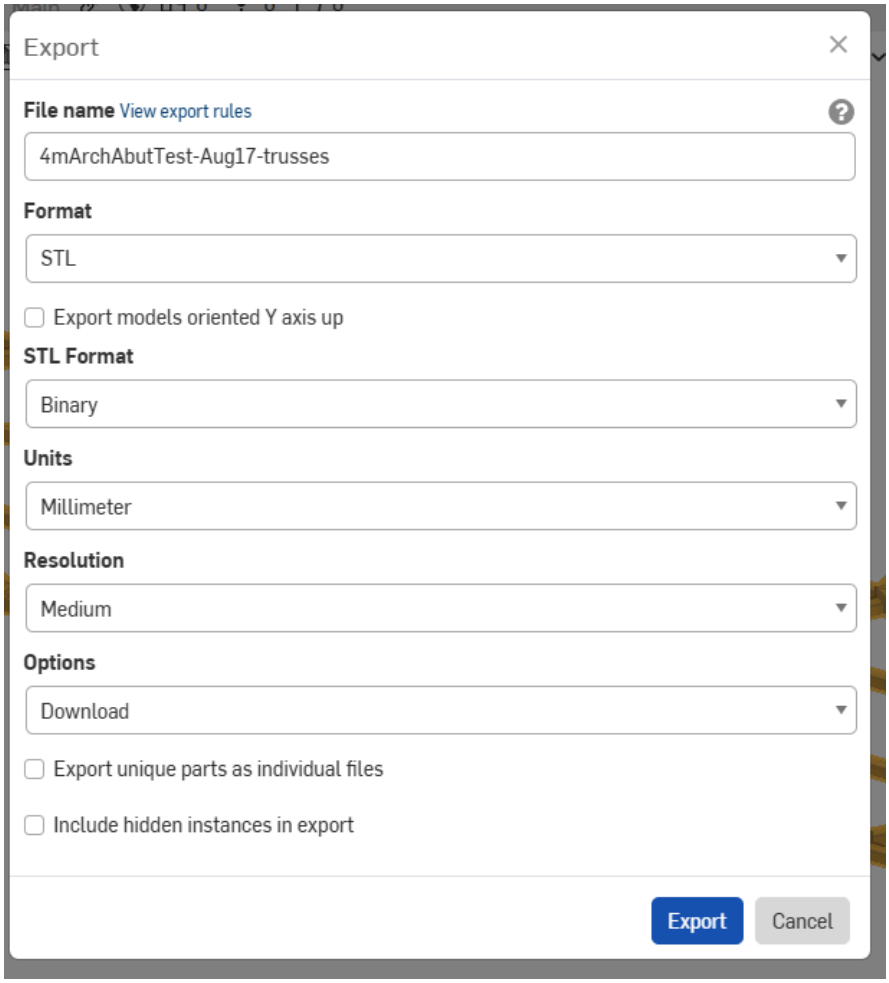
When you click on one you will see a larger version in the workspace:



In the Parts list, highlight all the parts you want to export and single right click to get to the options, click Export:



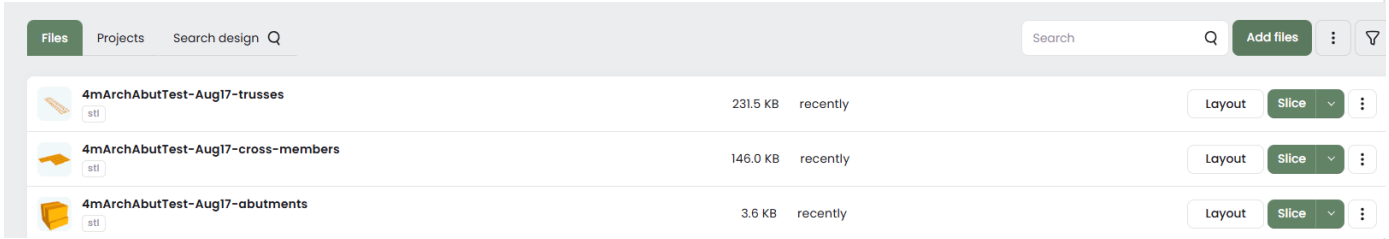
Make sure Units are Millimeters and Format is STL:



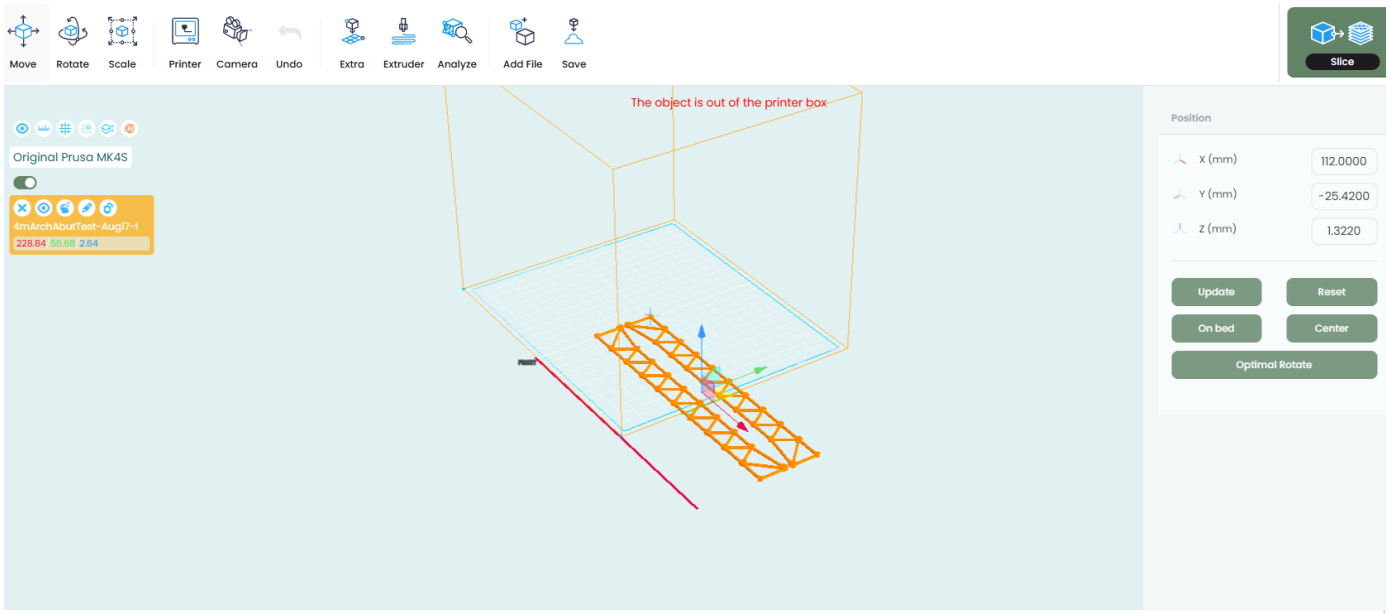
3D Printing your STL file

Take the 3D Printer training

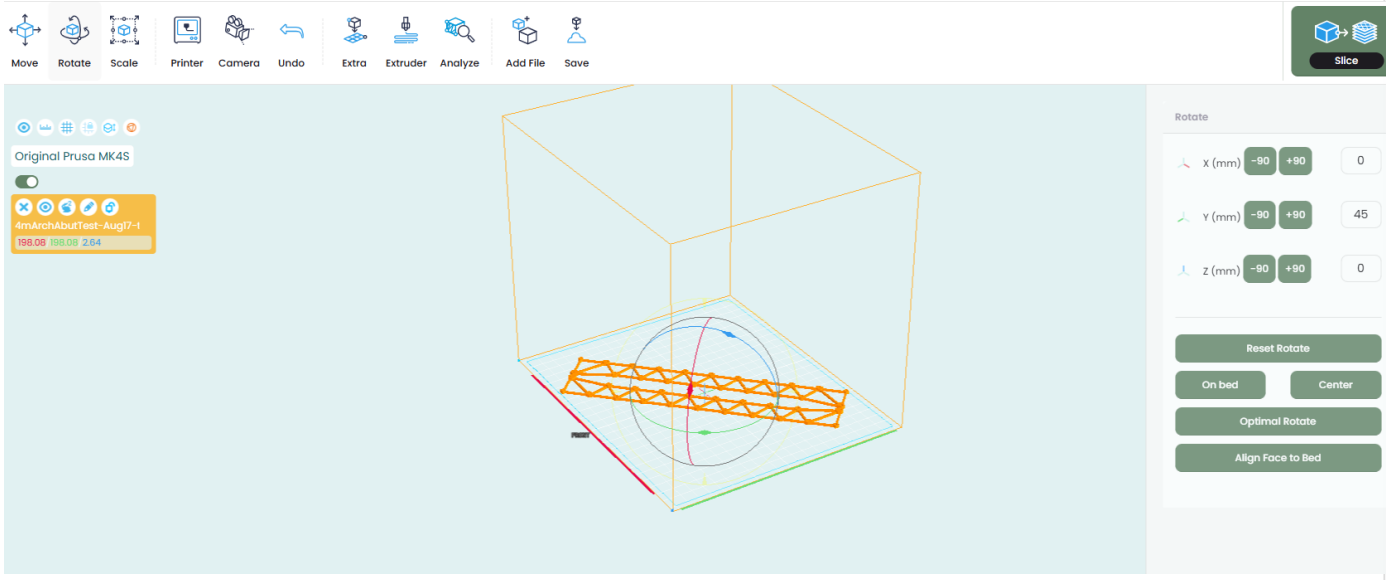
Upload the STLs you just created using OnShape into 3DPrinterOS



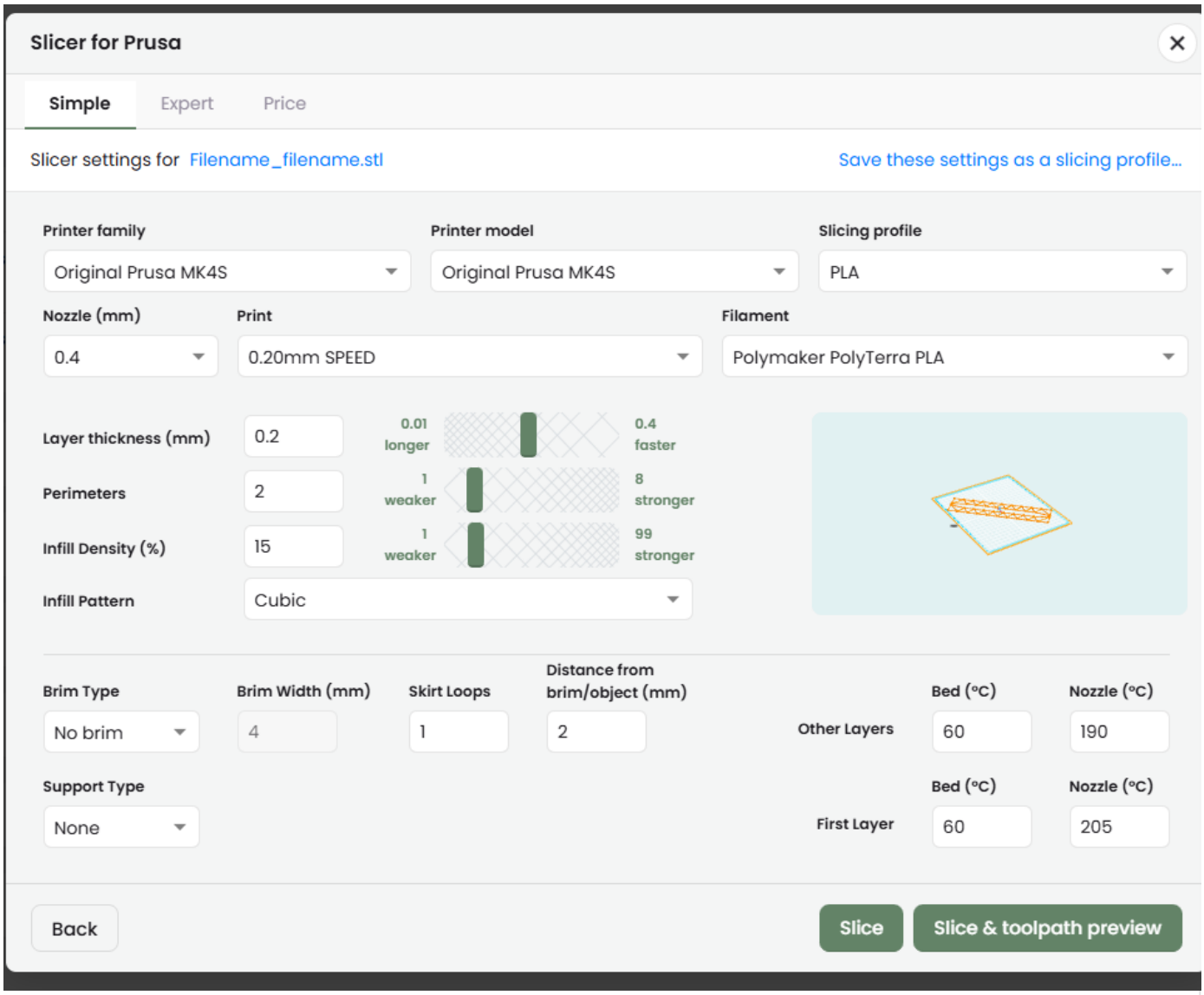
Press the Layout Button on the Truss file



You will want to press "On Bed" and "Center" and I recommend Rotating in the Y-direction 45 deg (in some cases this may not be possible and in some cases, you may need to export the STLs as separate files so you can re-arrange them on the bed).

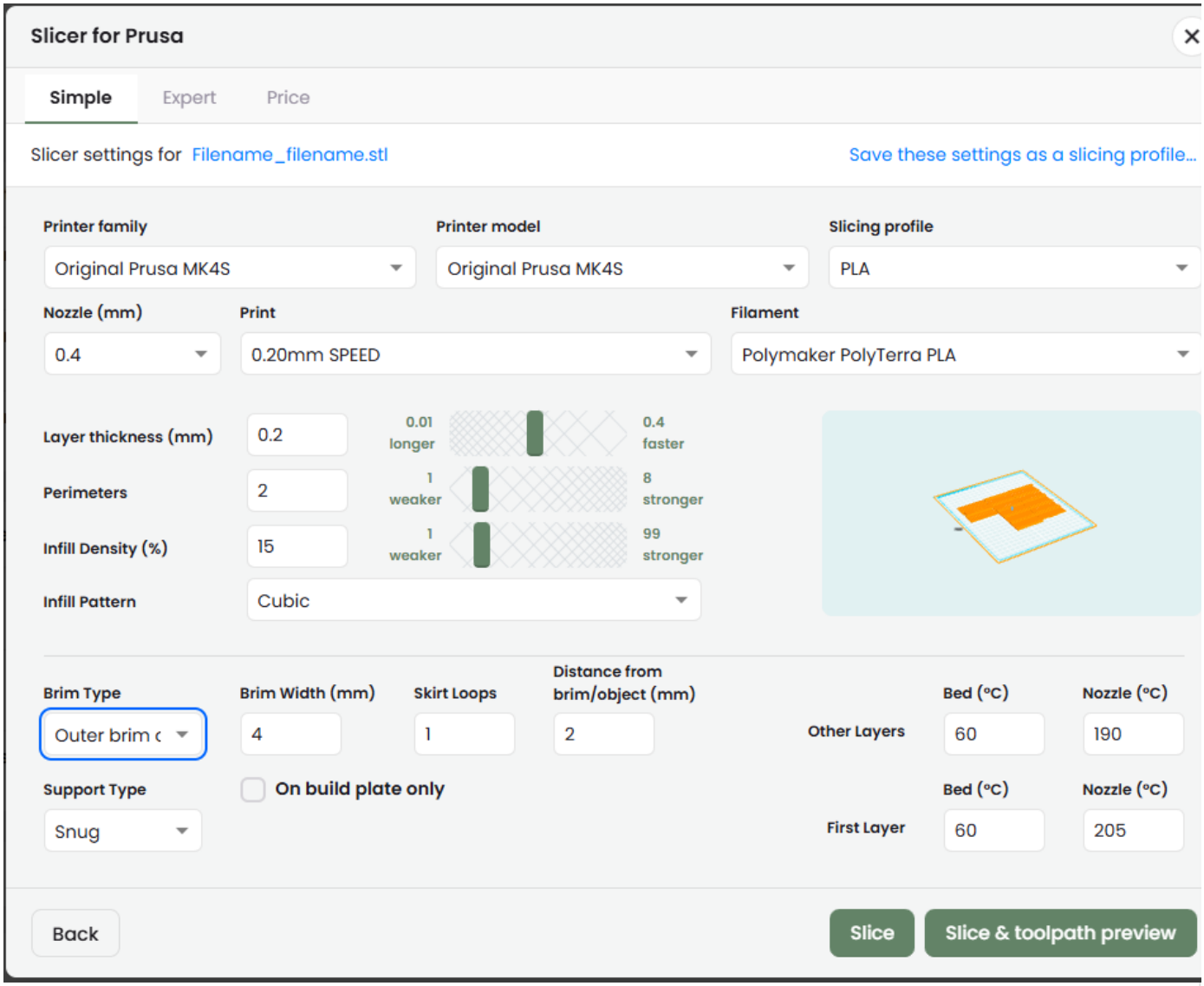


The standard PLA slicer settings are fine so you can just slice it for PLA (no brim, no support)



Do the same for the Abutments

For the Crossmembers pleas add a Brim (outer) and Snug Support.



Revision #6
Created 2026-08-18 09:21:45 MDT by Kathryn
Updated 2026-08-24 14:23:14 MDT by Kathryn