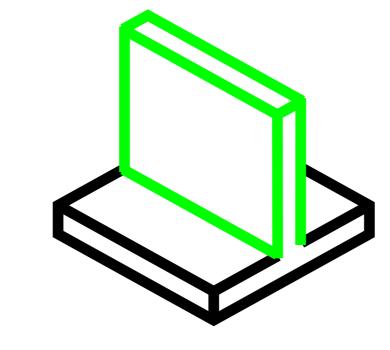
FFF 3D modeling rules

Walls



Chamfer / Fillet

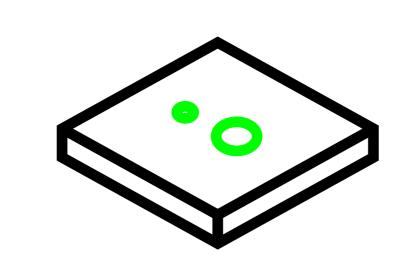
Best practice: 1.6 mm thickness or higher Minimal: 0.8 mm thickness

Best practice:

Pins

Use a chamfer or fillet in the corners to reinforce the model. This ensures that walls or pins break off less quickly.

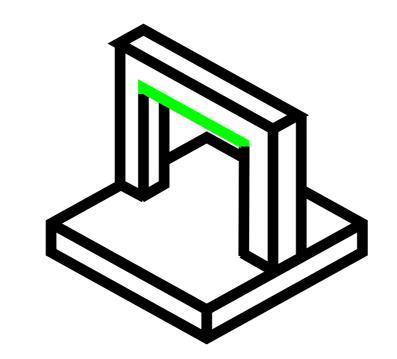
Holes



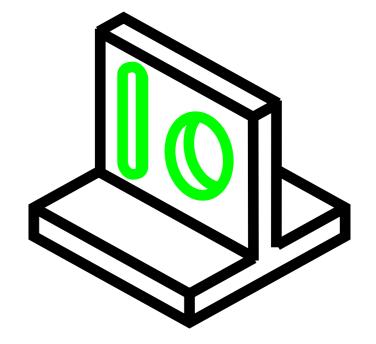
Best practice: 3 mm diameter holes Minimal: 2 mm diameter Best practice: 3 mm diameter or wider

Minimal: 2 mm diameter

Bridging



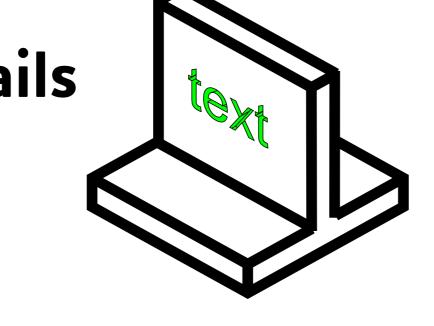
Windows



Print bridges up to 50 mm in length without printing supports underneath

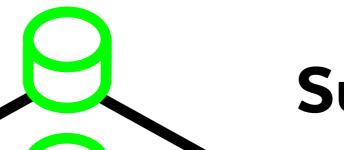
Print holes in vertical walls up to the size of 25 mm in length without printing supports underneath

Engraved details



Protrude embossed details 1 mm on vertical walls. It can print without support material.

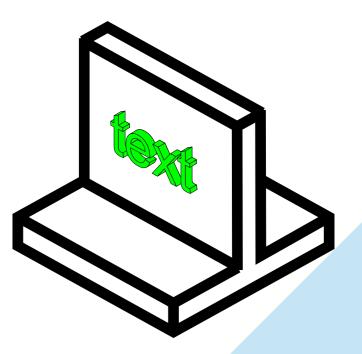
Tolerance



Extrude 'embossed' details 0.5 mm on vertical walls. It can print without supporting material.

Embossed details

Supports



90°





If two parts need to fit together loosely use a tolerance of 0.4 on every side of the model. Minimal: 0.2 mm tolerance Angles bigger than 45 degrees need support to print it properly. Try to make your angles 45 degrees and smaller to prevent printing support.



Optimisation

If possible try to optimise your print by removing extra material and making your prints more organic

