

Portfolio

Printing & Design guidelines

Printing Guidelines The minimum printable features in plane XY and Z

Minimum printable features	Dimension	Empirical Examples
Minimum hole diameter at 1mm thickness	0,5 mm	8-0 7-0 6-0 5-0 4-0 3-0 0.5 .65 .75 1.0 1.25 1.5 mm
Minimum shaft diameter at 10mm height	0,5 mm	
Minimum printable font	6pt	
Minimum printable feature or detail	0,1 mm width	STA
Minimum clearance at 1mm thickness Minimum slit between walls	0,5 mm	
Minimum Engraving	0,8 mm	AaBb

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Dimensional accuracy The dimensional accuracy +/- 0.2 mm up to 100 mm and 0.2% above that value.

Wall thickness

The minimum wall thickness depends on the aspect ratio:

Recommended Minimum Wall thickness 0,3 mm - 0,5 mm(*)

(*) recommended to increase thickness from this value or add ribs or fillets in order to reinforce the parts.

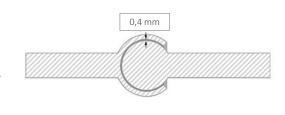
Minimum gap between assembly parts

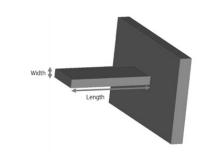
Recommended to have gaps of at least 0.4mm (+/-0.2mm of tolerance of each part) in the interface areas that should fit together, in order to assure the correct assembly.

Minimum spacing and clearance between parts

Assembly parts that minimum clearance between of 0.4mm

Parts with very thick walls above 50mm should have a higher gap in order to assure proper performance.





Aspect ratio = $\frac{length}{width}$

Aspect ratio = 1

Design Guidelines

Nuts and screws

Tolerance of +/-0.2mm of screws and nuts to design it.

