

# 3d Printing Build Documentation Sheet

A 'Build' is any time you generate G-Codes and load them on a machine a it runs long enough to complete the first layer

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Lab/Project	Housing_PLA	Build #	3

## Build Log Entry

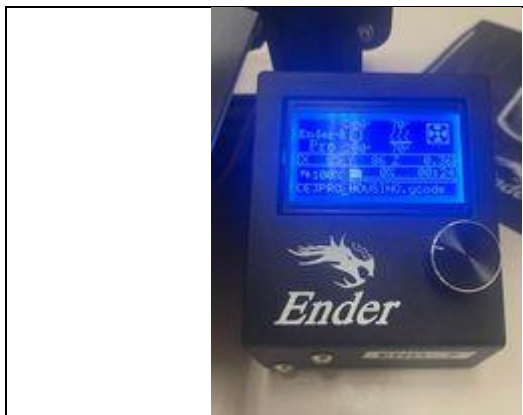
The screenshot shows a web-based interface for a 3D printer. The main area displays a 3D model of a yellow cylindrical part. To the right of the model, there is a list of print details:

- Print Status: Success
- Printer: Creality3D Ender 3 Pro
- Print G-Code: 142.25.3716.8s
- Estimated Print Time: 5d 1m 59s
- Actual Print Time: 5d 1m 59s
- Filament Usage:
  - Filament: Estimated: 108.887 grams
  - Profile: Super Quality
  - Filament: Generic PLA
- Settings:
  - Quality
  - Layer Height: 0.12 mm
  - Line Width: 0.4 mm
  - Wall
  - Wall Line Count: 3
  - Top Bottom
  - Top Thickness: 0.84 mm
  - Bottom Thickness: 0.84 mm
  - Wall
  - Wall Density: 20%
  - Wall Pattern: cubic
  - Material
  - Printing Temperature: 200°C

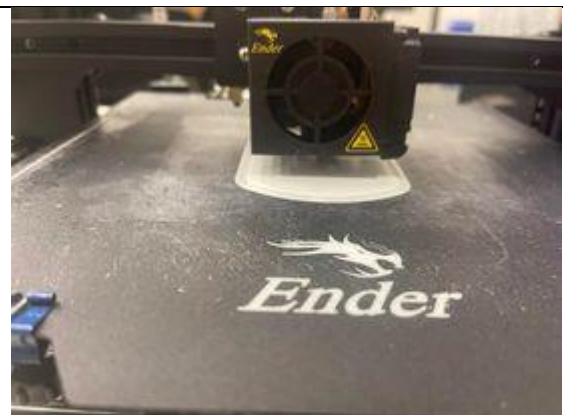
The screenshot shows the Ultimaker Cura software interface. The main area displays a 3D model of the yellow cylindrical part on a build plate. To the right, the 'Print settings' panel is open, showing various parameters for the 'Super Quality' profile:

- Profile: Super Quality
- Layer Height: 0.12 mm
- Line Width: 0.4 mm
- Wall: 3
- Top Bottom: 3
- Top Thickness: 0.84 mm
- Bottom Thickness: 0.84 mm
- Wall: 3
- Wall Density: 20%
- Wall Pattern: cubic
- Material: Generic PLA
- Printing Temperature: 200°C

## Preview in Slicer



Machine Control Panel after 1<sup>st</sup> Layer Complete



Build plate after 1<sup>st</sup> layer has printed



Machine Control at end of Build

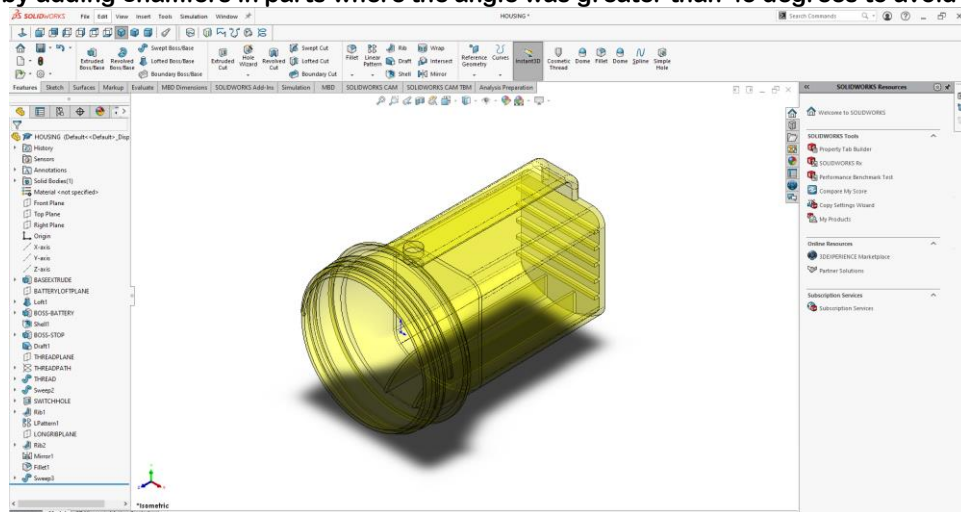


Build(parts) on Build plate after job completed or aborted



Photo of Build after removal from machine

1. Modify the file by adding chamfers in parts where the angle was greater than 45 degrees to avoid affecting the part.



2. To finish the piece, sand the piece with the machine shown in the photo.



3.For the final finish I used paint.



4.Final product with the part assembled with the Flashlight



Description/Comments