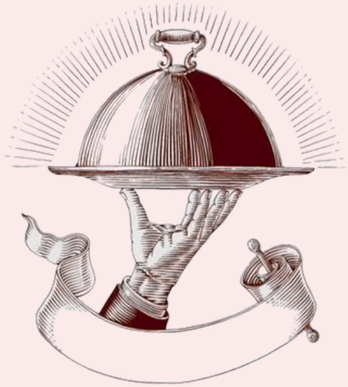
CANNELÉ *Storage Box*

– Valentine's Edition



Design Thoughts

"Inspired by the iconic French canelé, this compact desk organiser turns small daily clutter into a delightful ritual. Designed as a thoughtful Valentine's gift, it combines "love at first sight" aesthetics with truly practical storage—so it's not just cute, it's used every day."



Your perfect Valentine's gift.

A sweet little keepsake that tidies your desk.

Key Features

- Giftable Aesthetics
  Dessert silhouette with a "topping" decoration —cute, refined, and display-worthy.
- Practical Storage
  Available in multiple scales. The compact size targets small items (jewellery, clips), while the larger print (<30 m filament) offers enough volume for dessert cutlery, stationery, and similar desk accessories.
- Satisfying Press-Fit Closure
  A clean, glue-free press-fit design—easy to open, secure when closed, and satisfying to use.
- Two-Part Design
  Separate container + cream-top lid for easier printing, assembly, and visual customisation.

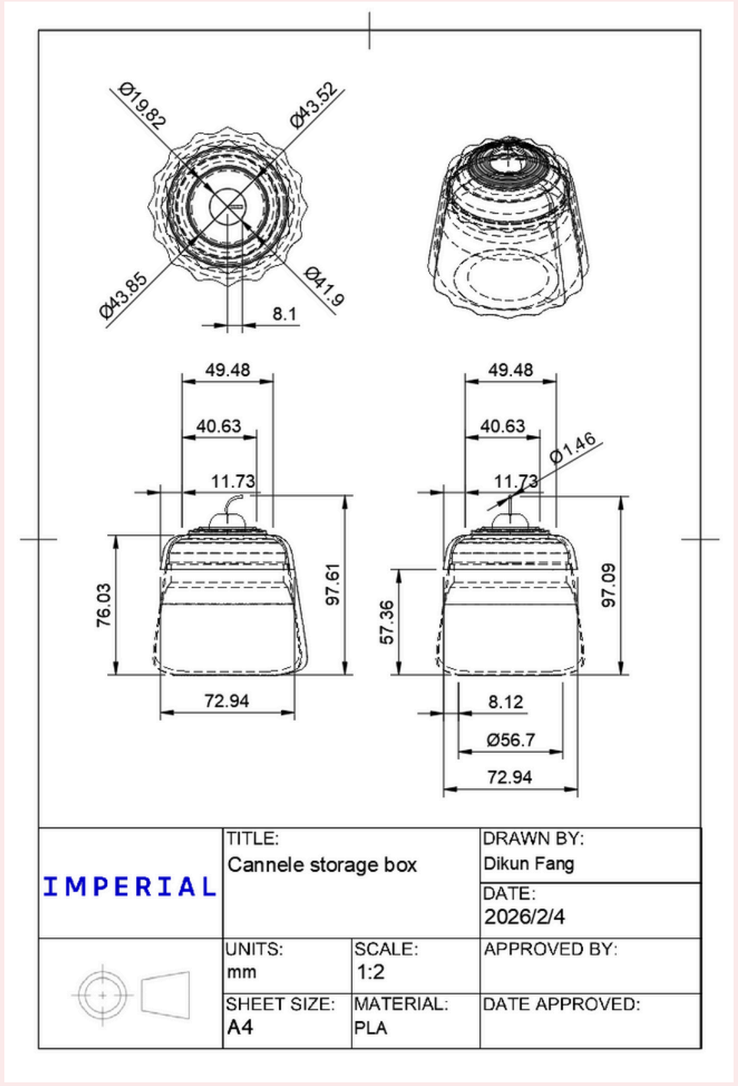
"Decorate your own Valentine's gift!"

- Cherry / Heart / Letter topper
- Colourways: Chocolate / Vanilla / Strawberry/ Jelly...
- Ingrave message on underside: "to ___, from ___"

Technical Drawing



CANNELÉ Storage Box



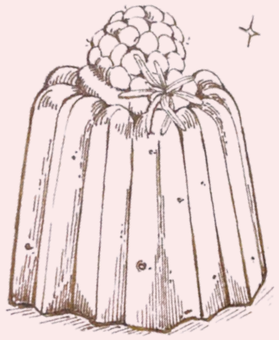
Overall size

Compact desktop footprint with gift-ready proportions.
Max diameter: 72.94 mm | Overall height: ≈97.1 mm

Storage volume

Internal base diameter Ø56.7 mm provides practical storage for small jewellery, clips, and (in larger size) dessert cutlery / stationery.

Units: mm | Material: PLA | Sheet size: A4 | Scale: 1:2







Rendering & Scenario

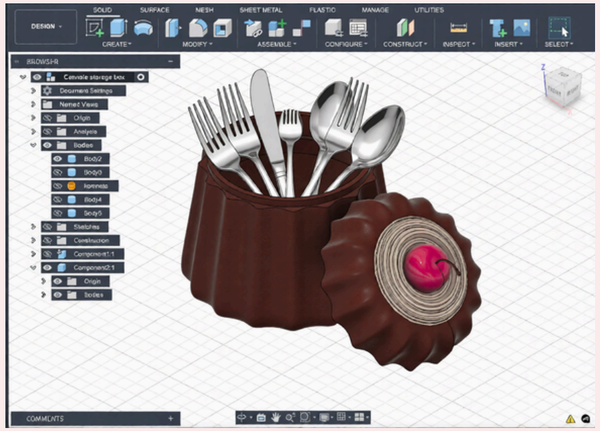
A cannelé that doesn't rot – it keeps your desk tidy and your mood sweet.

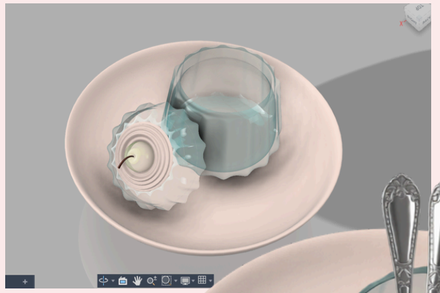


CANNELÉ Storage Box

A Valentine's gift that lasts longer than chocolate — sweet on the desk, useful every day.

These are the everyday desk mood: compact, tidy, and decorative — a small Valentine's touch that stays on the table.





I placed it in an afternoon-tea setting. It looks like part of a dessert display, but it's actually used as a dessert cutlery storage.







Printed in PLA — lightweight, crisp details, and a warm, matte dessert-like finish. Custom colour stories available: cocoa, vanilla, cherry.



Multiple sizes available:

the small size stores clips & jewellery, while the larger size fits stationery and dessert cutlery.

Annotated Design – *Key Components & Design Justification*

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These choices keep the dessert-like, gift-ready look while delivering reliable snap performance, material efficiency, and print-friendly manufacturability.

① Lid / “Whipped cream” top (decorative cap)
Gift-like dessert aesthetic; easy grip to open.



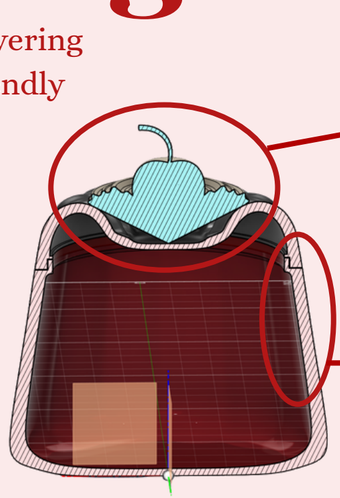
② Canelé fluted outer wall (ribbed profile)
Iconic form + improved stiffness; ribs strengthen thin walls without adding much material.

③ Snap-fit
Tool-free assembly; repeatable open/close; A 0.2 mm gap is designed at the mating surfaces to ensure smooth assembly and prevent “seizing” after printing.

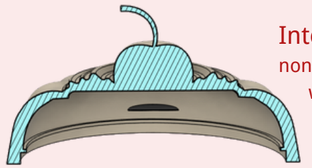
Why 0.2 mm is widely used : FDM parts are affected by extrusion width, material shrinkage, surface texture, and small dimensional deviations. With Bambu’s relatively high dimensional accuracy, 0.2 mm often balances “secure fit” and “easy assembly”:
<0.2 mm may bind due to surface roughness / slight over-extrusion
0.2 mm may feel loose and introduce wobble



④ Internal storage cavity
Optimised inner space for small items;
scaled up version fits stationery & dessert cutlery.



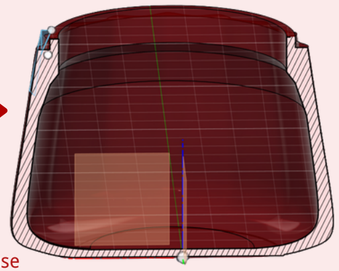
Internal hollowing:
non-critical solid regions are hollowed out while preserving the external form and usable volume, re ducing filament usage and print time to stay within the filament limit.



Extra benefit:
lighter weight improves everyday usability while keeping the cannelé silhouette visually “premium”.

Issue:
after hollowing, the snap feature introduced a local overhang that would normally require additional supports, increasing material use, leaving marks, and potentially reducing snap accuracy.

Solution :
triangular rib support: a small triangular rib is added beneath the snap:
minimises local supports, improving surface finish and dimensional consistency
reinforces the snap root, reducing stress concentration and fatigue from repeated use



less material, cleaner prints, stronger snap performance.

The body is printed upright to preserve the circularity and interior volume

The lid is laid flat to reduce overhangs and keep the “cream top” clean with minimal support.



The support is easy to disassemble.

smooth open/close, no post-processing



⑤ Base stability + anti-tip geometry
Wider base footprint for stability when loaded (clips/cutlery).