

VERIFAB**Quality-Control Datasheet & Certificate of Conformity**

Per-certification record for distributed 3D-printed hardware. One datasheet per certified part or batch.

Legend: grey cells = pre-filled labels · white cells = to be completed · ☐ = tick as applicable.

0. Document control

Datasheet No.		Certificate No.	
Certification type	☐ Standard (accredited) ☐ Ad hoc (non-accredited)	Ad hoc tier	☐ T1 (1–10) ☐ T2 (11–50) ☐ T3 (51+)
Status	☐ Draft ☐ Submitted ☐ Under review ☐ Certified ☐ Rejected	Template version	v1.0 / 2026-06

1. Key dates

Date of manufacture (print)		Print start / end time	
Date submitted for certification		Date reviewed / validated	
Date certified (issue)		Certificate valid until	

2. Customer information

Customer / organisation			
Account / Customer ID		Subscription / plan	
Contact name		Role / title	
Email		Phone	
Use-site facility (where the part will be used)			
Use-site address			
Intended use setting (clinical area / other)			

3. Validator information

Validator name		Validator ID	
Role / qualifications		Organisation	Verifab
Review method	☐ Remote ☐ On-site	Physical sample audited?	☐ Yes ☐ No
AI-assisted inspection used	☐ Yes ☐ No Model/version:	Human sign-off	☐ Yes ☐ No

4. Product information

Product / part name		Catalogue / part No.	
Design version / revision		Quantity in this certification	
Source design / upstream project		Licence	
Intended use / function			
Risk classification (if applicable)		Specified material	

5. Manufacturing site & equipment

Manufacturing site / manufacturer			
Site address			
Accreditation status	☐ Accredited (ID): _____ ☐ Non-accredited (ad hoc)	Last site/printer qualification	
Operator name		Operator ID	
Printer make / model		Printer technology	☐ FDM/FFF ☐ SLA ☐ SLS ☐ Other
Printer firmware version		Printer condition / maintenance	

6. Material / filament information

Material type		Brand / manufacturer	
Material status	☐ Verifab-certified ☐ Approved ☐ Other	Colour	
Batch / lot No.		Spool serial No.	
Material certificate / compliance reference (e.g. biocompatibility, food-contact)			
Drying / storage condition		Within shelf life?	☐ Yes ☐ No

7. Serial numbers & traceability

Every certified instance is traceable to the exact printer, material batch, and a witness coupon printed in the same job.

Product serial number(s) / range			
Filament batch / lot No.		Filament spool serial No.	
3D-printer serial No.		Witness coupon serial No.	
Chain-of-custody / record ID		QR / verification code	

8. 3D-printing / manufacturing process parameters

Slicer software / version		Validated print-profile ID (locked)	
Layer height (mm)		Nozzle diameter (mm)	
Nozzle temperature (°C)		Bed temperature (°C)	
Print speed (mm/s)		Infill density / pattern	
Wall / perimeter count		Top / bottom layers	
Print orientation		Support settings	
Chamber / enclosure temp (°C)		Ambient temp / RH	
Post-processing (support removal, cleaning, annealing, sterilisation ...)			

9. Calibration & witness coupon

For ad hoc certification (non-accredited printer) a calibration coupon in the same job is mandatory — it qualifies the unknown printer/material for this instance.

Coupon printed in same job?	☐ Yes ☐ No	Coupon ID	
Calibration test type		Overall coupon result	☐ Pass ☐ Fail

Coupon feature	Nominal	Tolerance	Measured	Result
				☐ P ☐ F
				☐ P ☐ F
				☐ P ☐ F

10. Photographic evidence — required angles

Requirements: even lighting, plain background, a ruler/scale in frame, the serial marking legible, and the part shown together with its witness coupon. Record the file reference for each view.

Required view	Captured	File reference
Top	☐	
Bottom	☐	
Front	☐	
Back	☐	
Left side	☐	
Right side	☐	
Isometric	☐	
Critical-feature close-up	☐	
Layer-adhesion close-up	☐	
Part + witness coupon together	☐	

Required view	Captured	File reference
Serial / marking close-up	☐	

Optional: attach or paste the photographs in the grid below for printed records.

Top	Front	Isometric
Critical feature	Layer adhesion	Coupon

11. Dimensional verification & Go / No-Go gauge

Go / No-Go principle. Each critical dimension is checked with a pair of printable gauges instead of skilled metrology. A conforming part **fits the GO gauge** (feature within the lower limit) and is **rejected by the NO-GO gauge** (feature not over the upper limit). A part that fails either check is non-conforming. Gauges are themselves validated and carry their own ID/version.

Go / No-Go gauge set ID		Gauge design version	
Gauge integrity verified	☐ Yes ☐ No	Method	☐ Go/No-Go gauge ☐ Calliper ☐ Other

Critical dimension / feature	Nominal	Tol ±	GO (must fit)	NO-GO (must reject)	OK
			☐ Pass	☐ Pass	☐
			☐ Pass	☐ Pass	☐
			☐ Pass	☐ Pass	☐
			☐ Pass	☐ Pass	☐

12. Visual inspection & defect assessment

AI / computer-vision result	☐ Pass ☐ Fail ☐ Needs review	Model / confidence	
Human visual result	☐ Pass ☐ Fail	Inspector	

Defect check	Result
Layer adhesion / delamination	☐ Pass ☐ Fail ☐ N/A
Warping / curling	☐ Pass ☐ Fail ☐ N/A
Stringing / oozing	☐ Pass ☐ Fail ☐ N/A
Under- / over-extrusion	☐ Pass ☐ Fail ☐ N/A
Cracks / voids / gaps	☐ Pass ☐ Fail ☐ N/A

Defect check	Result
Surface finish	☐ Pass ☐ Fail ☐ N/A
Completeness (no missing features)	☐ Pass ☐ Fail ☐ N/A
Colour consistency / contamination	☐ Pass ☐ Fail ☐ N/A
Gross dimensional defects	☐ Pass ☐ Fail ☐ N/A
Marking / serial legibility	☐ Pass ☐ Fail ☐ N/A

Defects found / disposition	
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13. Functional / mechanical test (if applicable)

Complete for load-bearing or fit-critical parts (e.g. mounts). Mark N/A otherwise.

Test required?	☐ Yes ☐ No (N/A)	Test type	☐ Fit ☐ Load ☐ Leak ☐ Other
Method / standard		Applied condition (e.g. load N)	
Acceptance criterion		Result	☐ Pass ☐ Fail

14. Acceptance criteria — result summary

Check group	Result	Ref / notes
Material & traceability (serials, batch, certified material)	☐ P ☐ F	
Process parameters match validated profile	☐ P ☐ F	
Calibration / witness coupon within tolerance	☐ P ☐ F	
Photographic evidence complete	☐ P ☐ F	
Dimensional / Go-No-Go gauge pass	☐ P ☐ F	
Visual / defect inspection pass	☐ P ☐ F	
Functional / mechanical test (or N/A)	☐ P ☐ F	

Overall disposition	☐ Conforming ☐ Non-conforming	Determined by	
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15. Non-conformance & corrective action (complete only if rejected/conditional)

Non-conformance description			
Probable root cause			
Corrective action / guidance to manufacturer			
Re-submission datasheet No.		Re-test required?	☐ Yes ☐ No

16. Final certification

Certification decision	☐ Certified ☐ Conditional ☐ Rejected	Certificate No.	
Date of certification		Valid until	

Scope of certification. This certificate attests that the specific part(s)/batch identified above were manufactured to the documented design, material, and validated process, and passed the recorded inspections and tests.

Limitations. For ad hoc certification this attests the specific instance only, not the manufacturer for ongoing production. Certification is valid only for the documented material batch, printer, and parameters; any change voids it. This certificate is not a regulatory clearance/approval unless explicitly stated.

Additional scope / conditions / statements	
Open-Source Dividend	A share of revenue from this certification supports the upstream open-hardware project(s) named above.

17. Approvals & signatures

Role	Name	Signature	Date
Prepared by (operator)			
Certified by (validator)			
QA review (optional)			

18. References & notes

Design file reference / hash	
Validated print-profile reference	
Go/No-Go gauge file reference	
Standards / specifications referenced	
Notes	