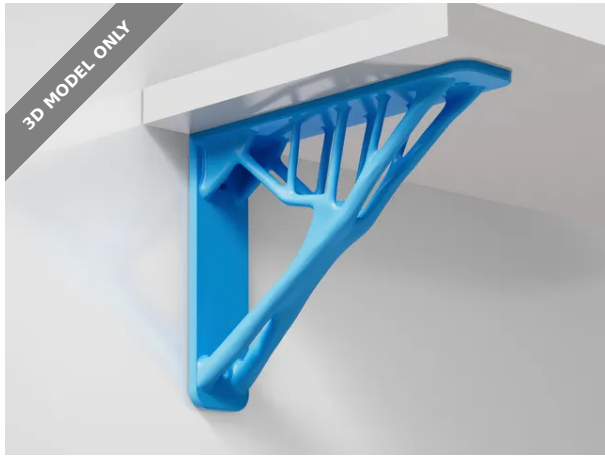




Shelf Bracket Topology Optimized



LV3D

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Summary

Shelf bracket, topology optimized, 4 mm screws, minimal supports

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Shelf Bracket Topology Optimized

This is a lightweight, topology-optimized shelf bracket designed for strength and minimal material usage. Its organic structure ensures high load capacity while maintaining an elegant appearance.

Dimensions: 150 mm wall side × 200 mm shelf side

Mounting holes: 4 mm diameter, suitable for standard 4 mm screws

Support-efficient design: Optimized for 3D printing with minimal supports

Installation: Designed for mounting to both wall and shelf

Recommended print settings:

Material: PETG or PLA

Layer height: 0.2 mm

Perimeters: 3 or more (depending on load)

Infill: 30–50% (gyroid or cubic recommended)

Orientation: Print with the longer (200 mm) shelf side flat on the print bed

Supports: Enable **tree supports** for optimal results

Perfect for modern or industrial interiors where strength and design go hand in hand.

Model files

topology-optimized-shelf-bracket.stl



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