



Wall Mount Shelf Bracket



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Summary

Strong and practical wall mount shelf bracket designed for secure, stable, and easy installation of shelves.



N/A



1 pcs



0.20 mm



0.40 mm



PLA



N/A



Creality
Ender 3 V3
SE

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Wall Mount Shelf Bracket — Heavy-Duty Reinforced Design

A heavy-duty, reinforced **Wall Mount Shelf Bracket** designed for strength, stability, and reliable shelf support. The bracket features a **dual diagonal strut design** that provides additional structural reinforcement while maintaining a clean and practical appearance.

Designed for 3D printing, this bracket is suitable for a variety of shelving applications around the home, workshop, office, garage, or storage area.

Technical Specifications

Specification	Dimension
Vertical Height	150 mm
Horizontal Depth	140 mm
Wall & Base Thickness	10 mm
Mounting Holes	3 × Ø8 mm
Primary Strut Span	100 mm
Strut Gap	15 mm

Mounting Holes

The bracket features **three vertically aligned Ø8 mm mounting holes**.

Hole positions measured from the bottom base:

- **Bottom hole:** 30 mm
- **Middle hole:** 100 mm
- **Top hole:** 130 mm

This arrangement provides multiple mounting points to help distribute the load across the wall.

Reinforced Structural Design

The bracket uses **two diagonal support struts** to reinforce the main shelf support.

The dual-strut configuration is designed to:

- Increase structural rigidity
- Reduce bending of the shelf support
- Improve load distribution

- Provide additional reinforcement between the wall and shelf surfaces
- Maintain a clean and functional appearance

The primary diagonal support has a **100 mm span**, with a **15 mm structural gap** between the support elements.

Recommended Print Settings

These settings are recommended as a starting point for printing the bracket:

Supports

- **Support:** Enabled
- **Support Type:** Normal
- **Support Placement:** Auto
- **Threshold Angle:** 30°
- **On Build Plate Only:** Disabled

Strength

- **Wall Loops:** 2
- **Infill:** 15–20%
- **Seam Position:** Random

Important: The actual load capacity depends on the printing material, layer height, extrusion settings, print orientation, wall mounting hardware, and the quality of the wall itself. Test the bracket gradually before applying heavy loads.

Recommended Materials

For applications requiring additional strength and durability, materials such as **PETG, ABS, or other suitable engineering-grade filaments** may be preferable to standard PLA.

Choose the material based on the expected load, temperature, and environment where the bracket will be installed.

Intended Applications

This bracket can be used for:

- Home shelving
- Workshop storage
- Garage organization
- Office shelves
- Display shelves
- Storage areas

- DIY furniture projects
- General wall-mounted shelving

⚠ Load & Installation

The bracket is designed with structural reinforcement, but **no specific maximum load rating has been established**.

Always use appropriate screws and wall anchors for your wall type. The strength of the complete shelf system depends not only on the printed bracket but also on the mounting hardware, wall material, shelf material, print settings, and installation quality.

Never exceed a load that has been safely tested for your specific installation.

Model Information

Model: Wall Mount Shelf Bracket

Design: Heavy-Duty Reinforced

Mounting Holes: 3 × Ø8 mm

Recommended Infill: 15–20%

Recommended Wall Loops: 2

Supports: Required — Normal / Auto / 30° threshold

Model files



wall-mount-shelf-bracket.3mf

📏 150 mm x 140 mm

Print files



wall-mount-shelf-bracket-gcode.gcode

🌀 PLA 📏 0.40 mm 📏 0.20 mm ⌚ 4.00 hrs ⚖️ 30 g

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