Heavy Duty Wall Hook

3DtoD

VIEW IN BROWSER

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Summary

a strong, durable wall-mounted hook designed to securely hold tools, gear, cables, and everyday items.

Art & Design > Wall-mounted

Tags: organizer hanger diy wallmount storage workshop toolholder 3dprinted wallhook functionalprint heavyduty utilityhook homeorganization garagestorage

Bracket / Hook Profile (2D CAD Drawing & Dimensions)

This model features a custom functional bracket/hook profile designed for strength, stability, and easy 3D printing. It incorporates a reinforced diagonal brace and precise mounting/channel dimensions.

Technical Specifications & Dimensions

- **Total Height:** 57 mm
- **Base Wall Thickness:** 6 mm (back wall)
- **Bottom Base Offset:** 6 mm
- **Top Lip Width:** 6 mm offset (20 mm channel distance to outer lip)
- **Channel Depth / Drop:** 10 mm top inner step
- **Hook Feature Height:** 6 mm front vertical stop

- **Internal Opening Width:** 25 mm inner section / 35 mm total channel reach
- **Diagonal Brace Wall Thickness:** 6 mm uniform angled support

Recommended Print Settings

- **Orientation:** Print on its side to maximize layer line strength along the horizontal load path and angled support.
- **Infill:** 20%–30% (Gyroid or Grid recommended for functional support).
- **Wall Loops / Perimeter:** 3 to 4 walls for maximum structural rigidity.
- **Supports:** Not required if printed flat on its side.

Model files

wall-hook-body.3mf

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