



Heavy Duty Closet Pole Sockets



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Summary

Heavy-duty closet pole sockets designed for secure wall mounting, strong support, and a clean, professional finish.

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Heavy Duty Closet Pole Sockets

A **3D-printable Heavy Duty Closet Pole Socket** designed to support standard closet and wardrobe poles. This model provides a practical DIY solution for replacing or creating wall-mounted closet rod supports.

The design features a compact circular mounting plate with **three screw holes** and a central pole holder designed around the common **1-1/4" to 1-5/16" (31.75-33.34 mm)** closet pole diameter range.

Whether you're repairing an existing closet, building custom storage, or creating a DIY wardrobe system, these sockets provide a simple and functional 3D-printable solution.

⚠ **IMPORTANT:** This is an independently created 3D model based on publicly available product dimensions and visual references. It is **not an official Everbilt product or OEM replacement part**. 3D-printed plastic has different mechanical properties from cast metal, so always test the printed socket carefully before relying on it for heavy loads.

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Technical Specifications

Specification	Details
Outer Diameter	68.07 mm / 6.807 cm
Overall Depth	22.35 mm / 2.235 cm
Compatible Pole Diameter	31.75–33.34 mm
Compatible Pole Size	1-1/4" to 1-5/16"
Mounting Holes	3

Mounting Style	Wall Mounted
Design Type	Closet Pole Socket
Recommended Material	PETG
Supports	Not Required

Pole Compatibility

The socket is designed around the common **1-1/4" to 1-5/16" closet pole range**.

Compatible Pole Diameter

Ø31.75 mm - Ø33.34 mm

Equivalent Imperial Size:

1-1/4" - 1-5/16"

Before printing multiple sockets, I recommend measuring your actual closet pole to confirm compatibility.

Design Features

Three-Point Wall Mounting

The circular mounting plate features **three screw holes** distributed around the socket to provide stable attachment to the mounting surface.

Closet Pole Support

The central socket is designed to accommodate a standard closet pole while keeping the rod securely positioned.

Reinforced Construction

The geometry uses a relatively thick mounting body to provide better rigidity than a lightweight decorative bracket.

Compact Design

The socket maintains a compact footprint while providing sufficient surface area for wall mounting.

Two-Socket System

The design can be used as part of a traditional closet pole installation, with **one socket supporting each end of the pole.**

Recommended Print Settings

The model was designed to be **easy to print without supports.**

⚙ Recommended Settings

- **Supports:** Disabled
- **Support Type:** None
- **Layer Height:** 0.20 mm
- **Wall Loops:** 2
- **Infill:** 15-20%
- **Seam Position:** Random
- **Recommended Material:** PETG

Supports

No supports are required.

The geometry was designed to print successfully with support generation disabled, helping reduce filament usage, print time, and post-processing.

Layer Height

A **0.20 mm layer height** provides a good balance between:

- Print time
- Surface quality
- Dimensional accuracy
- Overall print quality

Wall Loops

Recommended:

2 wall loops

For installations expected to experience higher loads, increasing the wall count can improve the mechanical strength of the printed socket.

Infill

Recommended:

15-20% infill

For applications where the socket will experience higher loads, consider increasing both the **infill percentage and wall count**.

Material Recommendations

PETG — Recommended

PETG is the recommended material for this model because it provides a useful combination of:

- Strength
- Impact resistance
- Good layer adhesion
- Better temperature resistance than PLA
- Long-term durability

ABS / ASA

ABS or ASA can also be used, particularly for installations that may experience **higher temperatures**.

These materials can be useful for demanding environments but generally require more controlled printing conditions.

PLA

PLA can be used for:

- Testing
- Prototyping
- Light-duty applications

However, **PETG or another more durable material is recommended for a functional closet installation**.

What's Included

The 3MF package contains:

- Heavy Duty Closet Pole Socket
- Ready-to-slice 3D model
- Support-free geometry

The model can be printed as a replacement component or used as the foundation for a customized closet installation.

Assembly & Installation

Installation Steps

1. Print the socket using the recommended settings.
2. Check the printed pole opening before installation.
3. Position the socket against the mounting surface.
4. ➡ Mark the three screw-hole positions.
5. Drill appropriate pilot holes for your mounting surface.
6. Secure the socket using suitable screws and wall anchors.
7. Insert the closet pole.
8. Check that the pole is seated correctly and that the socket does not flex excessively.
9. Install the second socket and verify that the pole is level.
10. Add your clothing/load gradually and inspect the installation.

Wall Type Matters

The appropriate screws and anchors depend on the mounting surface.

Examples:

- **Wood:** Use suitable wood screws
- **Drywall:** Use appropriate drywall anchors
- **Concrete:** Use suitable masonry anchors
- **Brick:** Use appropriate masonry fixings

Always select mounting hardware appropriate for the **wall material and expected load**.

The strength of the printed socket alone does not determine the strength of the complete installation — the wall, screws, anchors, and installation method are equally important.

Strength & Load Considerations

This is a **3D-printed plastic component** and should **not be treated as equivalent to the original cast-metal hardware**.

The actual load capacity can vary significantly depending on:

- Filament type
- Print orientation
- Wall-loop count
- Infill percentage
- Layer adhesion
- Screw type
- Wall material
- ⚓ Wall anchors
- Installation quality

- Closet pole length
- Weight of the clothing/load

For Higher Loads

Consider using:

- Higher wall count
- Higher infill
- PETG, ABS, or ASA
- Appropriate screws
- ⚠ High-quality wall anchors

Always test the installation gradually before placing a heavy load on the closet pole.

⚠ Important Notes

This model was **independently designed using available dimensional information and visual references**.

The dimensions of an original commercial product were used as a reference, but this model should **not be considered an exact OEM reproduction**.

Some internal, structural, and mounting features may differ from the original product.

This model is intended as a **DIY 3D-printable alternative** and is provided for personal use at your own discretion.

Load Testing

Before placing a significant amount of clothing or other weight on the pole, I recommend testing the installation with a **light load first**.

Gradually increase the load while checking for:

- Cracks
- Layer separation
- Deformation
- Screw-hole deformation
- Wall-anchor movement
- Excessive flexing

If you notice any of these issues, **remove the load immediately and reassess the installation**.

⚠ **Use this model at your own discretion and risk.**

Possible Uses

This model can be useful for:

- Closet rods
- Wardrobes
- Clothing storage
- Home organization
- Replacement parts
- DIY furniture projects
- Custom storage systems
- 3D-printed hardware projects
- Custom closet installations

Model Information

Model: Heavy Duty Closet Pole Socket

Design Type: Functional Replacement / DIY Hardware

Mounting: Wall Mounted

Compatible Pole: Ø31.75–33.34 mm

Supports: Not Required

Recommended Material: PETG

Layer Height: 0.20 mm

Wall Loops: 2

Infill: 15–20%

Seam Position: Random

♥ If You Print This Model

If you find this model useful, consider uploading a **Printables Make** and sharing your results!

I'd especially love to see:

- Different filament colors
- Different materials
- Real-world closet installations
- Custom modifications
- Your finished prints

Your Makes and feedback can help others decide how the model performs in real-world applications.

Happy printing!

Model files



heavy-duty-closet-pole-sockets-female-socket.3mf



heavy-duty-closet-pole-sockets-male-socket.3mf



sockets-screws-holes-caps.3mf

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