

Door Clearance & Weight Guide

Maximize tight kitchen storage with a custom, heavy-duty pantry rack.

Measure your exact shelf clearance to confidently build a door rack that won't sag. Use this guide to plan your materials and safely organize your supplies.

● Essential Build Specs

3

Ball-bearing hinges for a plumb door

4-inch

Play putty ball for clearance test

2-inch

Clear acrylic rails to secure items

1/4-inch

Plywood for a solid backer board

5-pound

Heavy jars at bottom protect hardware

0.5 inches

Clearance gap subtracted from putty depth

1.5-inch

Pocket hole screws for hidden joinery

Prevent Door Sagging

Always store dense baking staples on the lowest shelf to protect your hardware. This simple arrangement dramatically reduces the outward pulling force on the top hinge over time.



● Building the Rack

- 1 Reinforce the hinges** Fill stripped door jamb holes with wooden toothpicks and carpenter's glue before driving long mounting screws.
- 2 Assemble the frame** Build the pine structure using hidden joinery and premium wood glue to withstand daily vibration.
- 3 Attach the backer** Secure the painted panel with 1-inch brad nails spaced every six inches to lock it square.
- 4 Anchor the unit** Secure top corners first, then drive fasteners through the backer board every twelve inches.
- 5 Smooth and finish** Sand rough edges with 120-grit sandpaper and apply high-gloss enamel paint to

● Sizing Your Shelf Depths

Find your row: **Your intended daily cargo**

Your intended daily cargo	Your pick	Why
Standard spices	2.5 inches	Fits without wasting clearance space
Canned goods	3.5 inches	Rests safely without overhanging edge
Bulk baking staples	5.0 inches	Supports large dense containers safely

● Pre-Build Checks

- Verify your pantry door is solid core, not cardboard honeycomb.
- Perform the putty test at all internal shelf heights.
- Check your hinge and door manufacturer for exact weight ratings.
- Measure your tallest bottles to plan adequate vertical shelf spacing.
- Measure the exact internal width of each tier before cutting acrylic.

● Project Notes & Measurements

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Enjoy your beautifully organized, custom pantry space right at your fingertips!