GRAINBENCH ORIGINAL | CONFIDENT BEGINNER

The Garden Peg Rack

A wall board with four round pegs for hand tools, hats and twine in a shed or garage. The pegs are glued into shallow sockets and locked in with a screw from behind.



SIZE	SKILL	TIME	JOINERY
32 in wide, 5-1/2 in tall, 5-1/2 in deep	Confident beginner	About 2 hours, plus finish drying	Glued dowel sockets and screws

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01 / MATERIALS AND TOOLS

What to buy.

LUMBER AND SHEET GOODS

BUY	USED FOR
1 x 1x6 board, 4 ft	B mounting board
1 x 3/4 dowel, 3 ft (or an offcut at least 22-3/8 in long)	P pegs

Pick a flat 1x6 without knots where the pegs go. Hardwood dowel is stronger than the softwood kind.

HARDWARE AND SUPPLIES

ITEM	AMOUNT
#8 x 1-1/2 in flathead wood screws	4, plus a few spares
#10 x 3 in cabinet screws	4 washer-head screws for wood studs behind 1/2 in drywall
Exterior wood glue	Small bottle, rated for outdoor use
Sandpaper	120 and 180 grit
Finish	About 250 mL (half a pint) of exterior paint or exterior clear finish

TOOLS

- Saw for straight crosscuts: mitre saw, or circular saw with a speed square
- Drill/driver
- 3/4 in Forstner or spade bit with a depth stop (or tape on the bit)
- Tape measure, pencil and a combination or speed square
- Stud finder and a level
- Sander or sanding block
- Safety glasses and hearing protection

02 / CUT LIST

Cut the parts.

Cut the board B square to 32 in and the four pegs P to 5-1/4 in. Sand a small bevel on the outer end of each peg.

ID	PART	QTY	LENGTH	WIDTH	THICK	FROM
B	Mounting board	1	32 in	5-1/2 in	3/4 in	1x6
P	Pegs	4	5-1/4 in	3/4 in	3/4 in	3/4 dowel

CUTTING DIAGRAMS

1x6 x 4 ft

33 in used, including 1 in to square the end and 1/8 in per cut

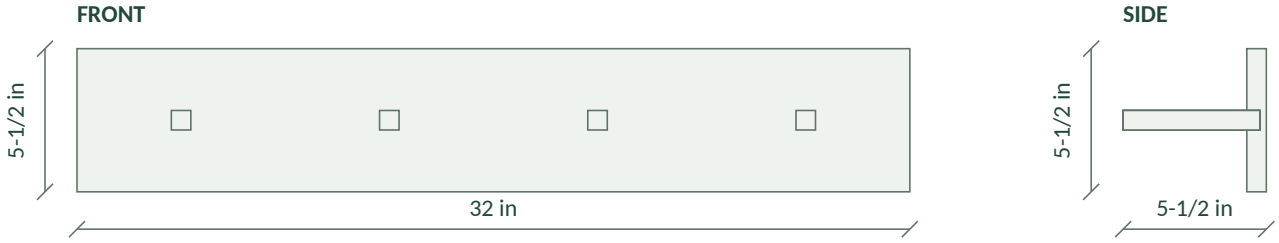


3/4 dowel x 3 ft

22-3/8 in used, including 1 in to square the end and 1/8 in per cut



FINISHED SIZE



The pegs sit 4, 12, 20 and 28 in from the left end, centred top to bottom. Each goes 1/2 in into the board and sticks out 4-3/4 in.

03 / BUILD

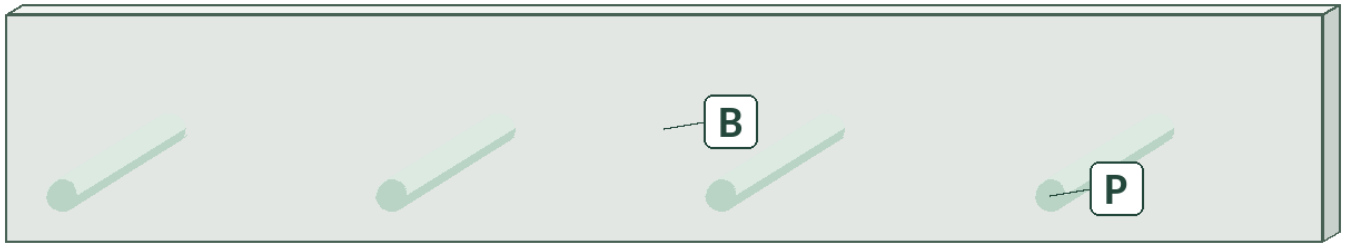
Put it together.

STEP 1 Drill the sockets

Mark the peg centres along the middle of **B** at 4, 12, 20 and 28 in from the left end. Clamp the board to scrap and drill each socket 1/2 in deep with the 3/4 in bit, keeping the drill square to the face. Then drill a small pilot from the back of the board at the centre of each socket.

STEP 2 Glue in the pegs

Try each **P** in its socket first. Spread glue in the socket and on the peg end, push it fully home and keep it square while the glue sets.



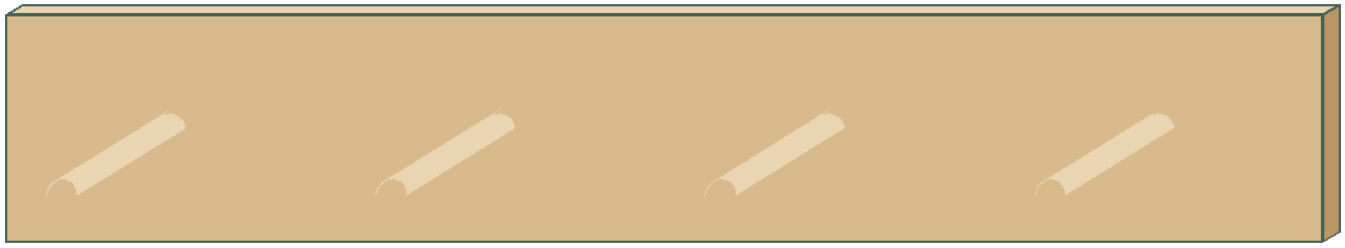
GREEN: added in this step | GREY: already in place

STEP 3 Lock the pegs

Once the glue has set, drive a #8 x 1-1/2 in screw from the back of the board into the end of each peg. Snug, not tight.

STEP 4 Finish

Sand, round the board edges, and apply an exterior finish, including the back and ends.



03 / BUILD, CONTINUED

STEP 5

Hang the rack

Find two studs behind where the rack will go. Hold it level, drill 2 holes through the board at each stud, clear of the pegs, and drive the 4 cabinet screws.

CARE

For hand tools and light gear. Hang heavy tools elsewhere, and check the pegs for looseness now and then.

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Dimensions, part counts and cutting layouts were checked digitally. The plan has not been load-tested.