GRAINBENCH ORIGINAL | CONFIDENT BEGINNER

The Maker's Clamp Rack

A wall shelf with six open slots that holds bar clamps by their heads. The slotted shelf is plywood, so the fingers between slots are strong in every direction.



SIZE	SKILL	TIME	JOINERY
32 in wide, 7-1/4 in deep, 8 in tall	Confident beginner	About 3 hours	Screws and glue

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01 / MATERIALS AND TOOLS

What to buy.

LUMBER AND SHEET GOODS

BUY	USED FOR
1 x 1x8 board, 4 ft	B wall board
1 x 3/4 plywood, 2 ft x 4 ft panel	G brackets (triangles), S slotted shelf

The shelf and brackets come from a 2 x 4 ft panel of 3/4 in plywood. Plywood is used for the shelf because the slots would leave solid wood fingers that can split along the grain.

HARDWARE AND SUPPLIES

ITEM	AMOUNT
#8 x 1-1/2 in flathead wood screws	24, plus a few spares
#10 x 3 in cabinet screws	4 washer-head screws for wood studs behind 1/2 in drywall
Wood glue	Small bottle of interior wood glue
Sandpaper	120 and 180 grit

TOOLS

- Circular saw with a straight-edge guide, or have the store cut the plywood
- Jigsaw for the angled and shaped cuts
- Drill/driver with a 1/2 in bit
- Tape measure, pencil and a combination or speed square
- 2 clamps that open to at least 12 in
- Stud finder and a level
- Safety glasses and hearing protection

02 / CUT LIST

Cut the parts.

Cut the wall board B and the shelf S to 32 x 7-1/4 in. For the brackets G, cut two 6-1/2 in plywood squares and saw each corner to corner; that gives four triangles, so you have one spare.

ID	PART	QTY	LENGTH	WIDTH	THICK	FROM
B	Wall board	1	32 in	7-1/4 in	3/4 in	1x8
S	Slotted shelf	1	32 in	7-1/4 in	3/4 in	3/4 plywood
G	Brackets (triangles)	3	6-1/2 in	6-1/2 in	3/4 in	3/4 plywood

CUTTING DIAGRAMS

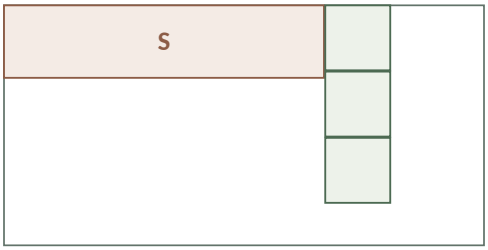
1x8 x 4 ft

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

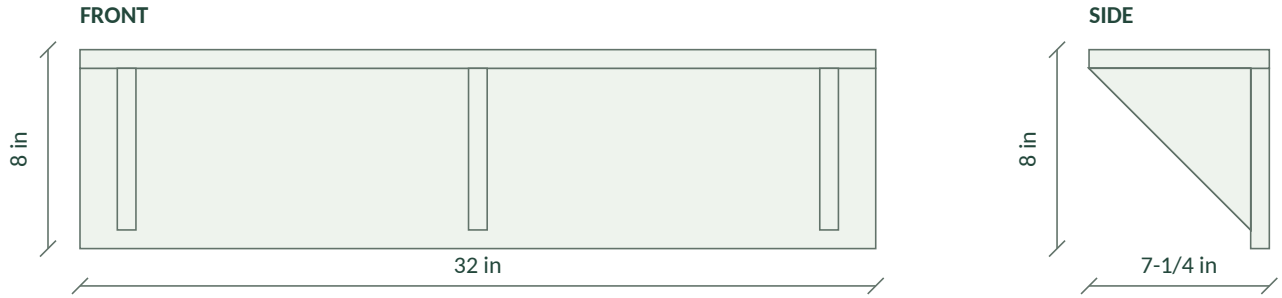


3/4 plywood, 2 ft x 4 ft

Long edge runs left to right. Allow 1/8 in between parts for the saw.



FINISHED SIZE



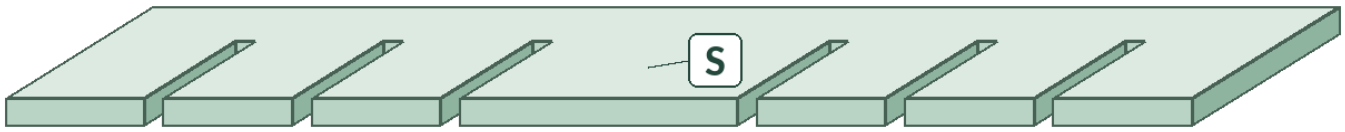
The shelf sits on top of the wall board, back edges flush. Three brackets support it at 1-1/2, 15-5/8 and 29-3/4 in from the left. The slots are 1/2 in wide and 4-1/2 in deep, centred 4, 8, 12, 20, 24 and 28 in from the left.

03 / BUILD

Put it together.

STEP 1 Cut the slots

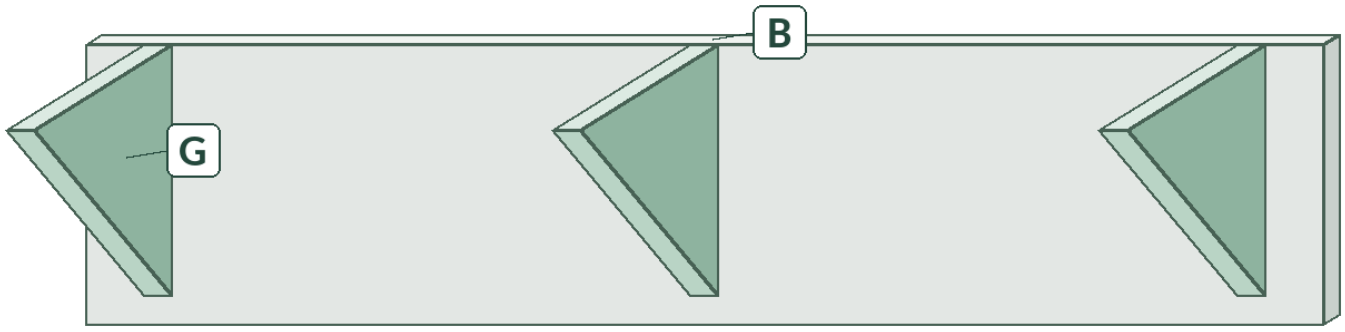
Test one of your clamps in a slot cut in scrap first. On **S**, mark six slots along the front edge, 1/2 in wide and 4-1/2 in deep, centred 4, 8, 12, 20, 24 and 28 in from the left. Drill a 1/2 in hole at the inner end of each, then saw the two sides from the front edge into the hole.



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

STEP 2 Attach the brackets

Glue each **G** to the front of **B** with its square corner up and its top flush with the top of the board, at 1-1/2, 15-5/8 and 29-3/4 in from the left. Drive 3 screws through the back of **B** into each bracket.

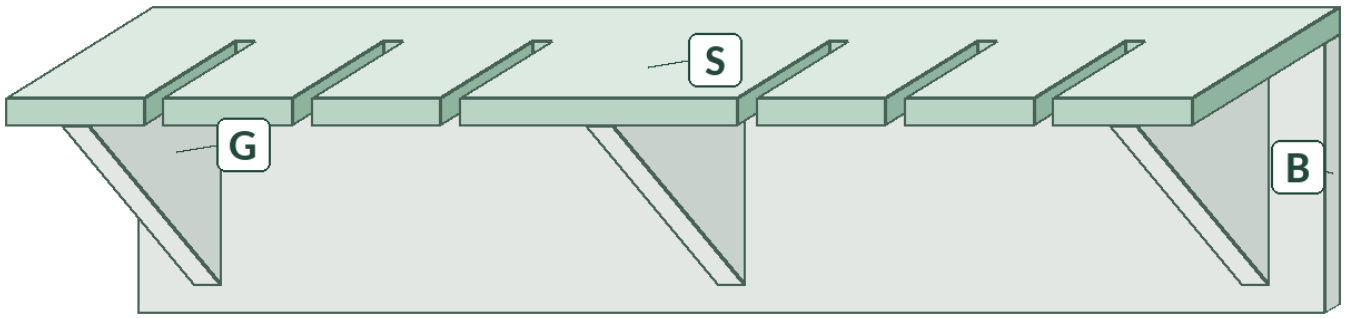


GREEN: added in this step | GREY: already in place

03 / BUILD, CONTINUED

STEP 3 Add the shelf

Set **S** on top, back edges flush. Drive 3 screws down into each bracket and 6 into the top edge of **B**, keeping clear of the slots.



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

STEP 4 Hang it

Find two studs within the board. Hold the rack level and drive 2 cabinet screws through **B** into each stud, one near the top and one near the bottom, clear of the brackets.

CARE

Hang empty clamps one at a time and keep the heaviest ones near the brackets.

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