



Scribe & Square
BEGINNER WOODWORKING PLANS

PHONE
EDITION

PS-02

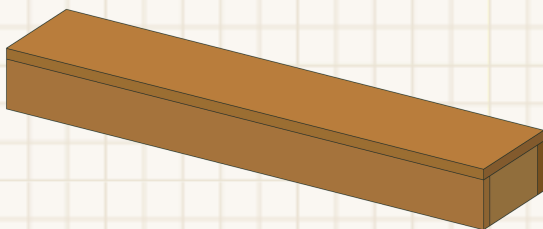
LEVEL 1 · BEGINNER

Box Ledge Shelf

A clean, hollow ledge shelf that mounts to wall studs

W 36" · D 7 1/4" · H 4 1/4"

914 MM · 184 MM · 108 MM



5

PARTS

2

BOARDS TO BUY

22

SCREWS

1.5-2 hours

FIRST BUILD (EST.)



Every number checks out. Modeled and checked in 3D; not yet physically built and tested.

Jump to

Shopping list 3

Cut list 4

Boards 5

Parts 6

Assembly, step by step



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Made for reading on a phone: one idea per screen, and every line is a link. The Letter edition adds the cutting diagram, cut tags and the maker's label for printing.

Shopping list

Lumber

1x4	1 × 8 ft
3/4" × 3 1/2" actual	

1x8	1 × 4 ft
3/4" × 7 1/4" actual	

Hardware and supplies

Wood screws #8 x 1-5/8 in	18
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Wood screws for studs, 3 in	4
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Wood glue	1
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Tools you need

Miter saw or hand saw

Drill/driver with a pilot-hole bit

Tape measure, speed square, level and pencil

Stud finder

Wood glue

120 grit sandpaper

Wood and finish

Wood: Pine, fir or poplar (indoor)

Finish: Interior paint or varnish.

At the store

- Take the boards list with you. The Boards screens show exactly which pieces come out of each one.
- Sight down each board and pick the straightest, with no big knots or cracks near the ends.
- Boards stop at 8 ft so everything fits in most cars. Many stores will make rough cuts for you.

Cut list

Cut the longest pieces first, and pencil each part's letter on it as soon as it is cut.



Shelf top

1x8 · 36" · 914 mm

× 1

	B Back rail (to the wall) 1x4 · 36" · 914 mm	× 1
	C Front face 1x4 · 36" · 914 mm	× 1
	D End block 1x4 · 5 3/4" · 146 mm	× 2

Boards

Each bar is one board you buy, drawn to scale. Cut the pieces from left to right, longest first; the hatched part is the offcut. Sizes are actual lumber sizes.

Board 1 of 2

1X4 · 8 FT



B 36" · C 36" · D 5 3/4" · D 5 3/4" | offcut 12 1/8"

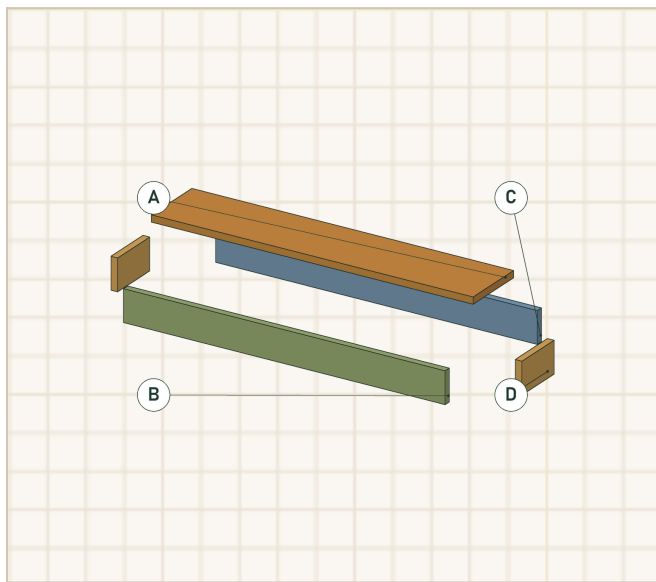
Board 2 of 2

1X8 · 4 FT



A 36" | offcut 12"

Parts



Circled letters match the cut list. Colors match its color bars.

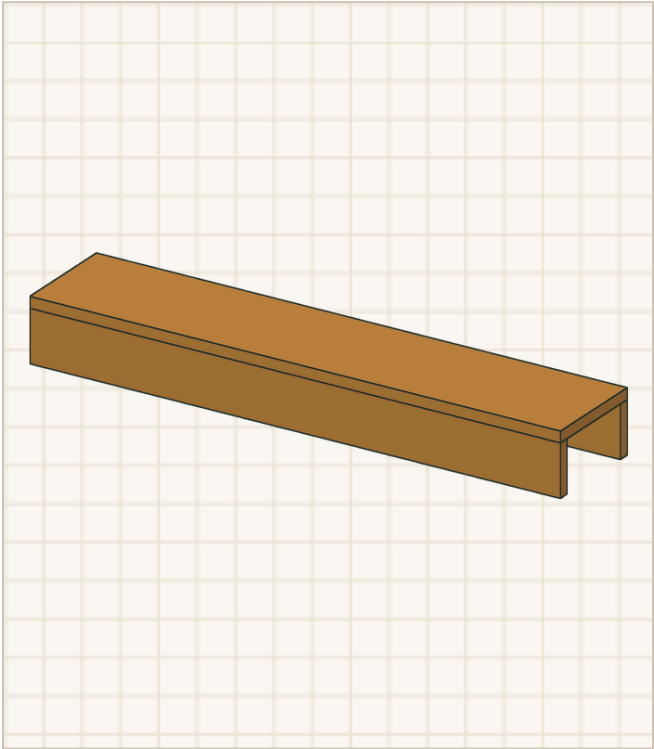
1 Cut all the parts

Cut every part on the cut list, longest pieces first (see the cutting diagram). Check each piece against the list, then sand the edges lightly. Tape a cut tag to each piece as soon as you cut it.



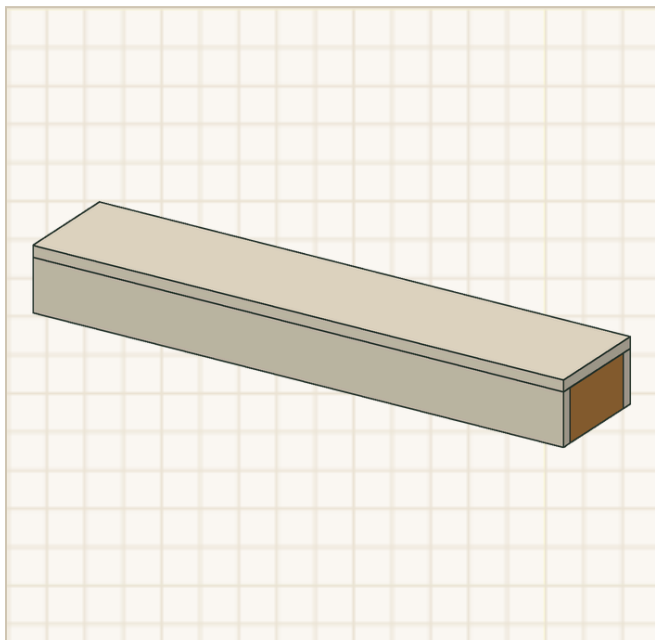
2 Build the box

Drawings: ■ parts you add now ■ already in place



Lay the top (A) upside down. Glue and screw the back rail (B) and the front face (C) to its long edges, five pre-drilled 1-5/8 in screws into each.

3 Close the ends



Glue the two end blocks (D) between the back and the front at each end and fasten them with two 1-5/8 in screws through the back and two through the front (four per block).



SQUARE CHECK · AFTER STEP 3

Measure the diagonals across the top of the box: both should read **36 3/4" (933 mm)**.



4 Find the studs

Use a stud finder and mark at least two wall studs, usually 16 in on center. Check for wires and pipes before drilling.

5 Hang the shelf

Hold the box with the back rail against the wall, level it and mark. Drive 3 in screws through the back rail into the studs, at least four in total, two per stud.



SQUARE CHECK · AFTER STEP 5

Place a level on the shelf top before the last screws: the bubble should sit centered along its length.

6 Finish

Fill the screw holes if you like, then sand and paint or varnish. You can also finish it before hanging.



Checks & safety

Square Checks at a glance



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SQUARE CHECK · AFTER STEP 5

Place a level on the shelf top before the last screws: the bubble should sit centered along its length.

Safety and notes

A decorative shelf for light loads. It is not rated or tested for heavy books or tools.

Always screw into wall studs. Drywall anchors are not reliable for carrying load.

Wear safety glasses and hearing protection when cutting, and a dust mask when sanding.

Always pre-drill before driving screws near the end of a board, to avoid splitting the wood.



Clamp or firmly hold the workpiece before cutting and keep your hands out of the cut line.

This plan has been modeled and cross-checked in 3D, but it has not yet been physically built and tested. Dry-fit the parts before you drive screws and use the Square Checks as you go.

How this plan was checked

- Every part uses the real dimensions of standard lumber (not the nominal size)
- No two parts overlap or collide (0 collisions found)
- All 5 of 5 parts connect into one assembly (nothing floats)
- The shopping list covers every cut, including the saw kerf
- The assembly rests on its reference plane (floor or wall)

Status: modeled and cross-checked in 3d, not yet physically built and tested.

