



Scribe & Square
BEGINNER WOODWORKING PLANS

THE GARAGE STARTER COLLECTION

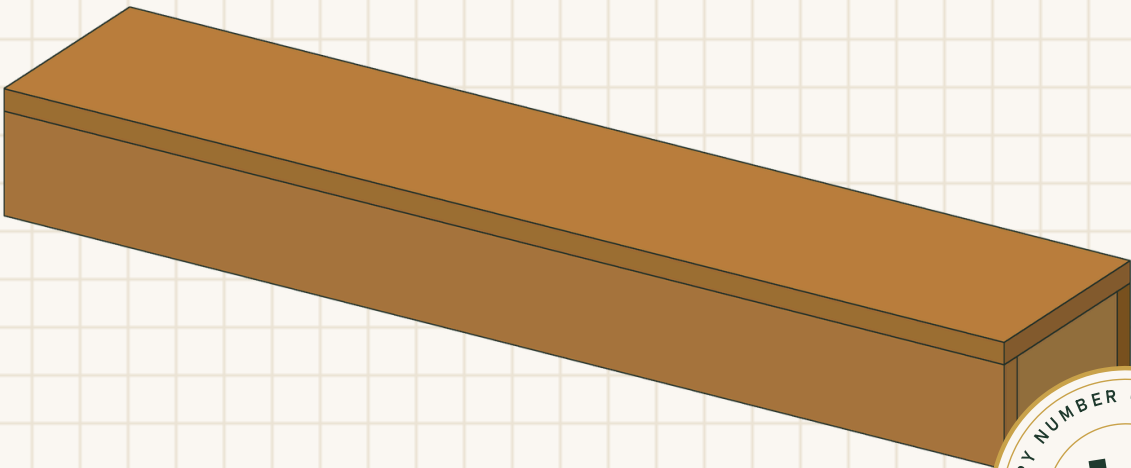
PS-02

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.)

Inside this plan

Materials & tools	S-02	Cut list & cutting diagram	S-03
Drawings	S-04	Exploded view & parts	S-05
Assembly	S-06	Safety & verification	S-07
Cut tags & maker's label	S-08		

Every cut is a straight 90° cut. Images are 3D renders of the model, not photographs.



Scribe & Square
BEGINNER WOODWORKING PLANS

PLAN
Box Ledge Shelf

SHEET
1 of 8

UNITS
in (mm)

REVISION
1.0 · Oct 2026

STATUS
Checked in 3D model

Shopping list

LUMBER	ACTUAL SIZE	BUY
1x4	3/4" x 3 1/2"	1 x 8 ft
1x8	3/4" x 7 1/4"	1 x 4 ft
HARDWARE AND SUPPLIES		QTY
Wood screws #8 x 1-5/8 in		18
Wood screws for studs, 3 in		4
Wood glue		1

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

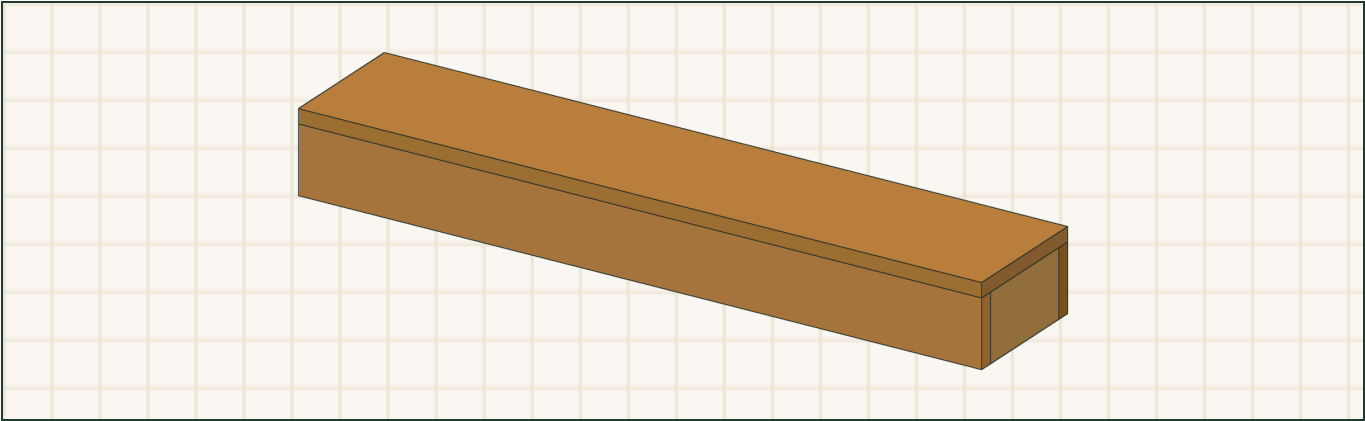
Wood and finish

Wood: Pine, fir or poplar (indoor)

Finish: Interior paint or varnish.

At the store

- Take the cutting diagram with you: it shows exactly which pieces come out of each board.
- Sight down each board and pick the straightest, with no big knots or cracks near the ends.
- Board lengths stop at 8 ft, so everything fits in most cars. Many stores will also make rough cuts for you.



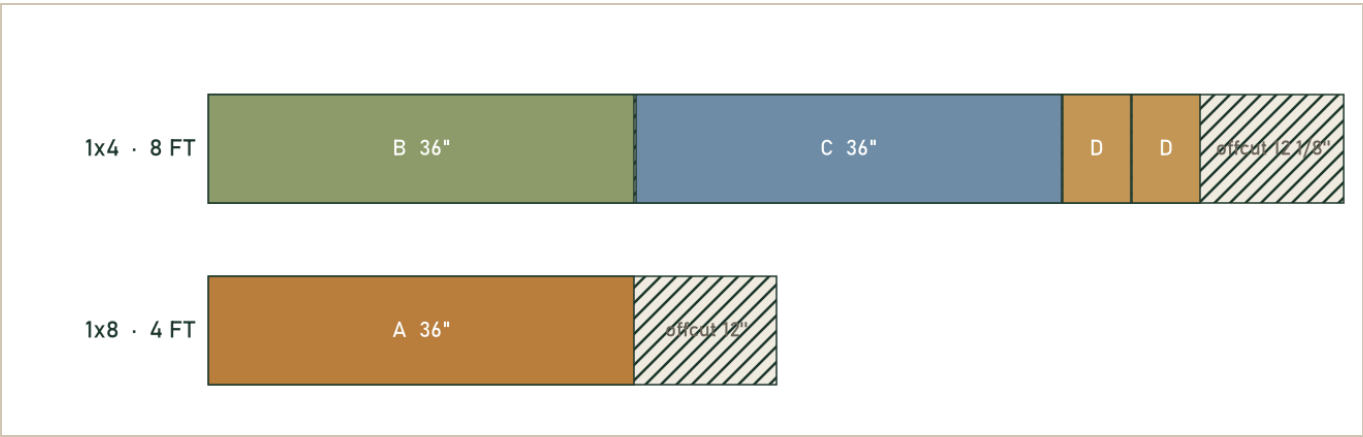
YOUR FINISHED BOX LEDGE SHELF · W 36" · D 7 1/4" · H 4 1/4"



Cut list

PART	NAME	STOCK	QTY	LENGTH	MM
(A)	Shelf top	1x8	1	36"	914 mm
(B)	Back rail (to the wall)	1x4	1	36"	914 mm
(C)	Front face	1x4	1	36"	914 mm
(D)	End block	1x4	2	5 3/4"	146 mm

Cutting diagram



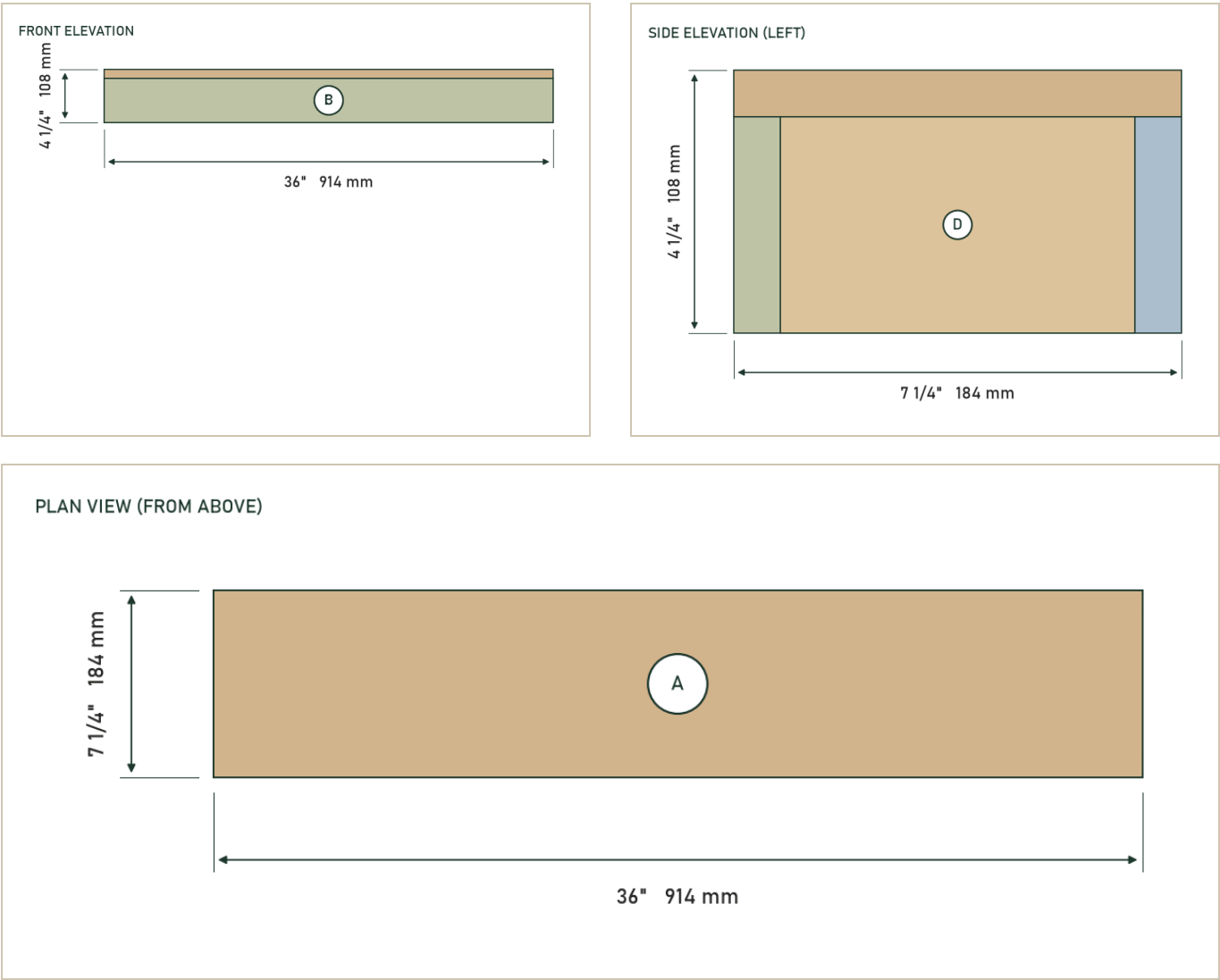
Each bar is one board you buy. Cut the pieces in the order shown, longest first, allowing about 1/8" for each saw cut; the hatched part is your offcut. Sizes are **actual** lumber sizes (a nominal 1x4 measures 3/4" x 3 1/2").

Before you cut

- ☐ Lay the boards out and check each one for bow, twist and cracks.
- ☐ Mark the offcut side of every line with an X and cut on that side.
- ☐ Cut the longest pieces first, and keep the offcuts.
- ☐ Tape a cut tag to each piece as soon as it is cut.

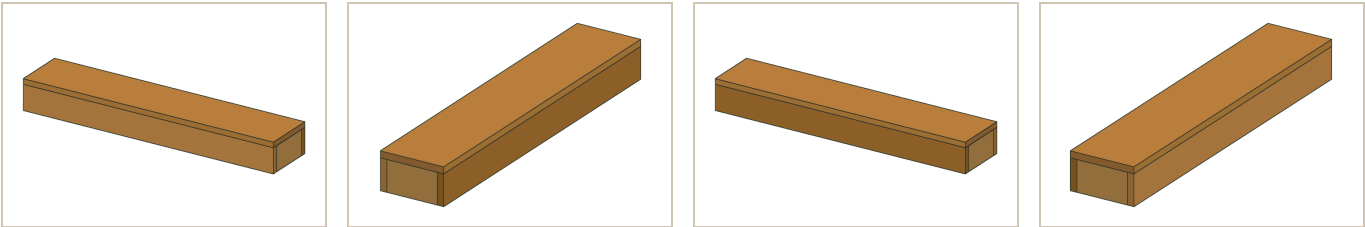


Elevations

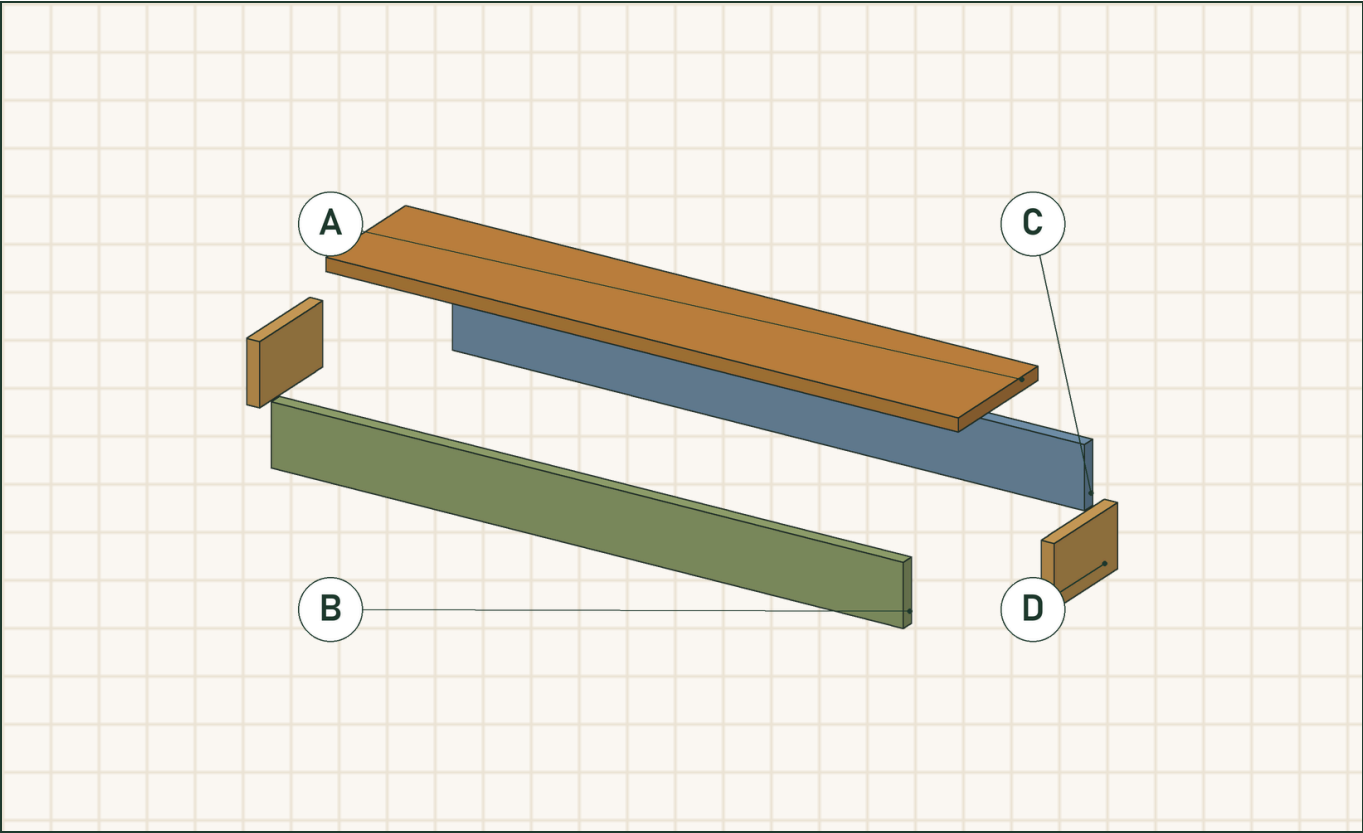


Circled letters refer to the cut list. Overall dimensions in inches, with millimeters alongside. Every dimension on this sheet comes from the same 3D model as the cut list.

Seen from every side

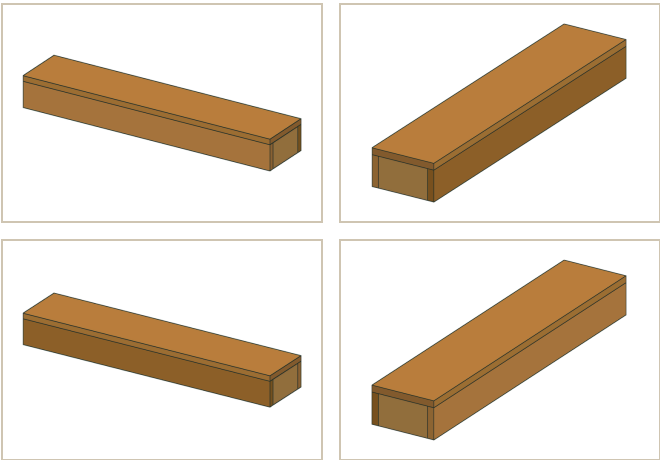


Exploded view



PART	NAME	QTY X LENGTH
A	Shelf top	1 x 36"
B	Back rail (to the wall)	1 x 36"
C	Front face	1 x 36"
D	End block	2 x 5 3/4"

Seen from every side



Assembly

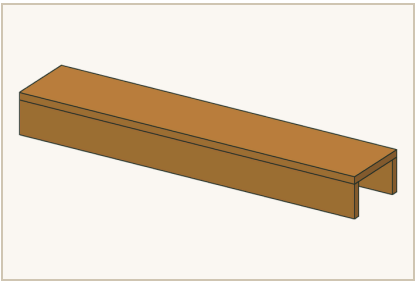
In the step drawings: ■ parts you add now ■ parts already in place

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.

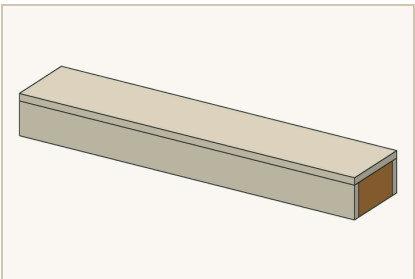
2 Build the box

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.



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.

Square Checks at a glance

STEP	CHECK
3	Measure the diagonals across the top of the box: both should read 36 3/4" (933 mm) .
5	Place a level on the shelf top before the last screws: the bubble should sit centered along its length.

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. When a plan has been built and tested, its title block will say so.

Build checklist

- ☐ Read the whole plan once before you buy anything.
- ☐ Buy the boards on the shopping list and pick the straightest ones.
- ☐ Cut the longest pieces first and tape a cut tag to each piece.
- ☐ Dry-fit before you drive screws, and pre-drill near the ends of boards.
- ☐ Do every Square Check before you move on to the next step.
- ☐ Sand, finish, and let the finish cure as its label says.
- ☐ Fill in the maker's label and put it where only the curious will find it.



**Scribe &
Square**
BEGINNER
WOODWORKING
PLANS

PLAN
Box Ledge Shelf

SHEET
7 of 8

UNITS
in (mm)

REVISION
1.0 · Oct 2026

STATUS
Checked in 3D
model

✂ Cut along the dashed lines and tape each tag to its piece as soon as you cut it.



SCRIBE & SQUARE · PS-02

MADE BY _____

DATE _____

WOOD FINISH

BUILT FROM A SCRIBE & SQUARE PLAN



SCRIBE & SQUARE · PS-02

MADE BY _____

DATE _____

WOOD FINISH

BUILT FROM A SCRIBE & SQUARE PLAN



Build notes