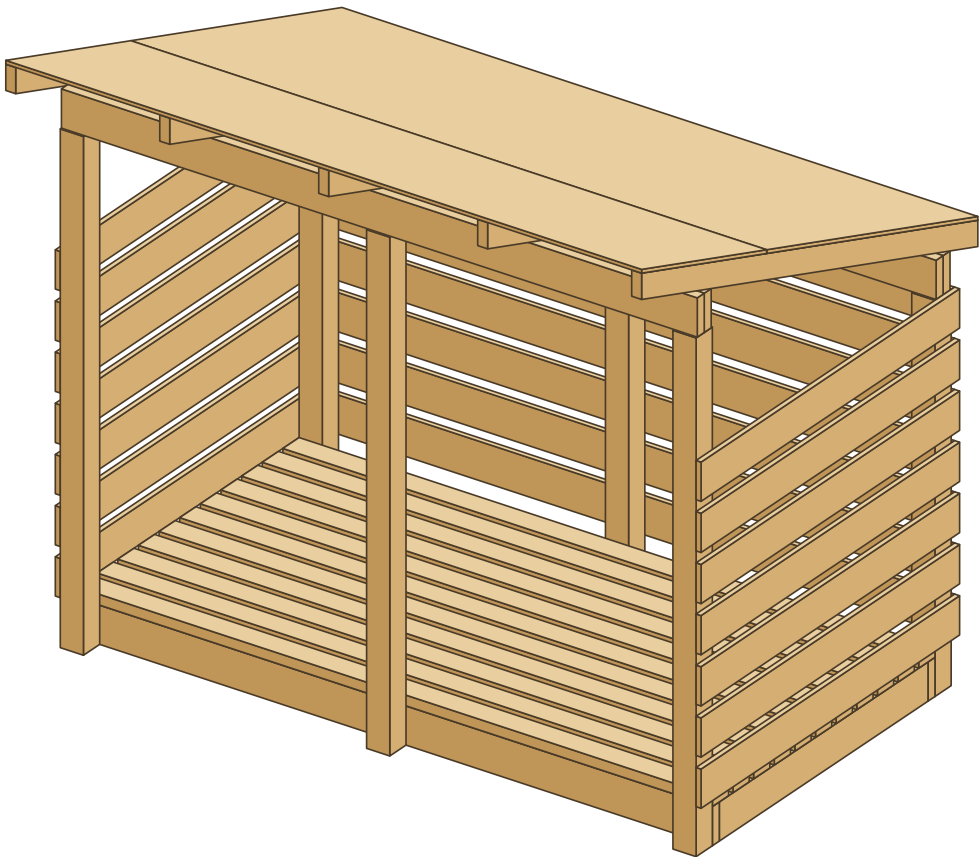


FREE PLAN

4x8 Firewood Shed (1 Cord)

Step-by-step build plan with dimensioned drawings



Floor	4'-0" deep x 8'-0" long, raised on concrete blocks
Holds	128 cu ft stacked 48" high: about 1 cord (3.0 face cords of 16" logs)
Overall	8'-1-1/2" long x 6'-1/2" deep x 7'-3-3/8" high above the blocks
Front opening	65-11/16" high from the floor boards to the front beam
Roof	single slope, 4 in 12, draining to the back; 2x4 rafters at 24" centres; shingles
Plan ID	FW-48x96

Not engineered. Check local codes. Build at your own risk. These plans show one way to build this project. They are not reviewed by a licensed professional. You are responsible for checking local rules, your materials and your own safety.

Free vs Premium

This free plan has everything you need to build the firewood shed. The Premium plan adds the shopping list and the cut planning for every board and sheet, so you buy the right materials the first time.

What you get	Free	Premium
Step-by-step instructions	10 steps	14 steps
Cut length for every board (in the steps)	✓	✓
Elevations and framing drawings with dimensions	✓	✓
3-D assembly figure for each build step	✓	✓
Exploded assembly view with part legend	—	✓
Full cut list table (part, qty, length, stock)	—	✓
Board-by-board cutting diagram for 8-16 ft stock	—	✓
Roof plywood sheet layout (4x8)	—	✓
Shopping list: boards, sheets, bolts, roofing	—	✓
Screw, bolt and connector counts	—	✓
Capacity and stacking guide, finish and care	—	✓

Get the Premium plan — \$19.99

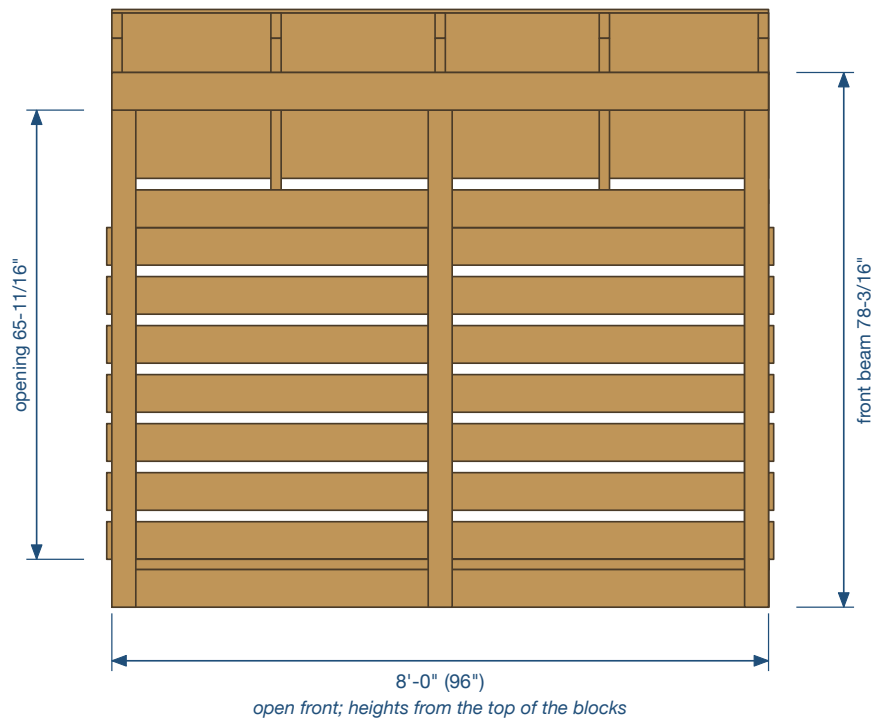
One-time purchase. Instant PDF download.

Need a different size?

We generate this plan for other lengths and depths too, with the cut list and shopping list recalculated for the new size.

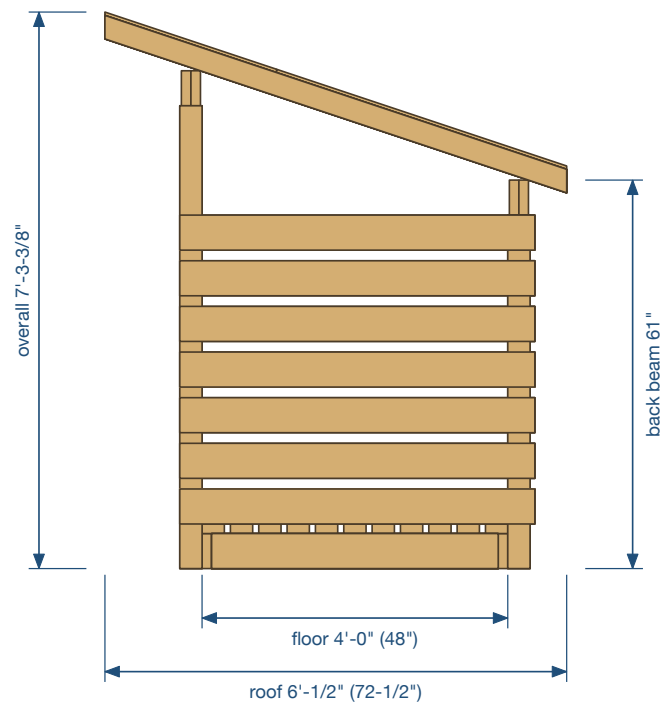
Drawings · elevations

FRONT ELEVATION



RIGHT END ELEVATION (open front at the left)

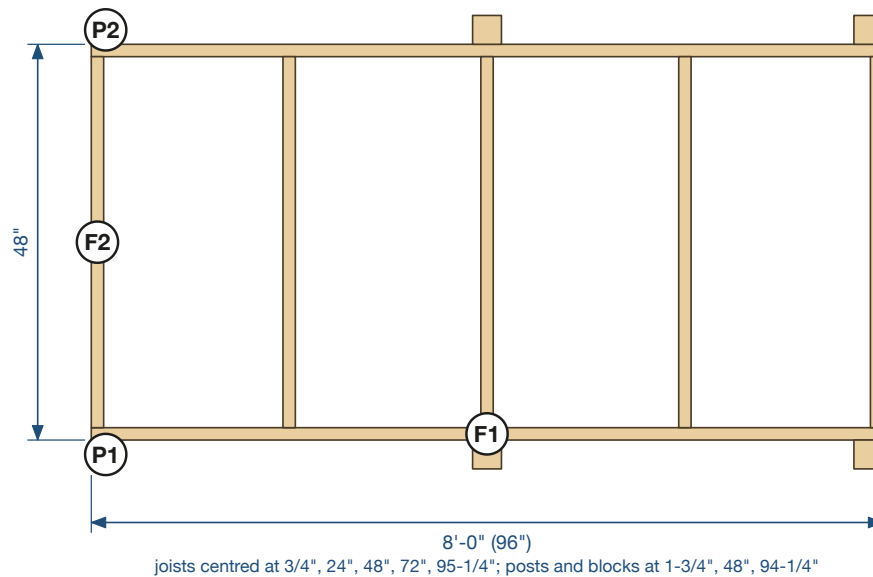
single-slope roof 4 in 12, draining to the back



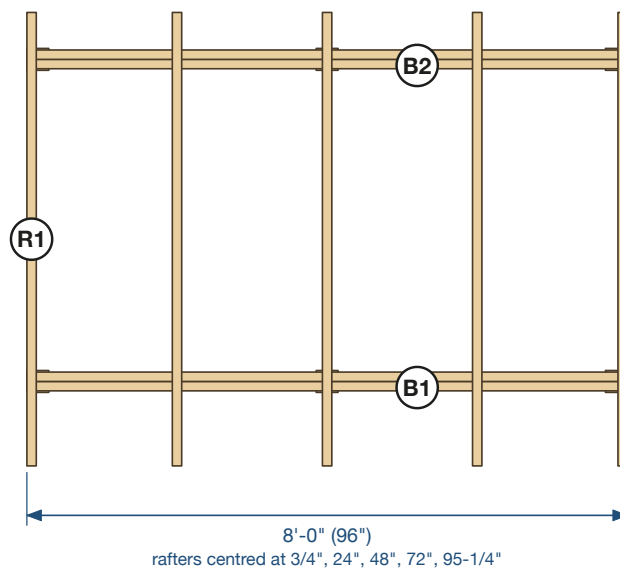
Drawings are not to scale. Build from the written dimensions.

Drawings · floor and roof framing

FLOOR FRAME AND POSTS (from above, floor boards removed)

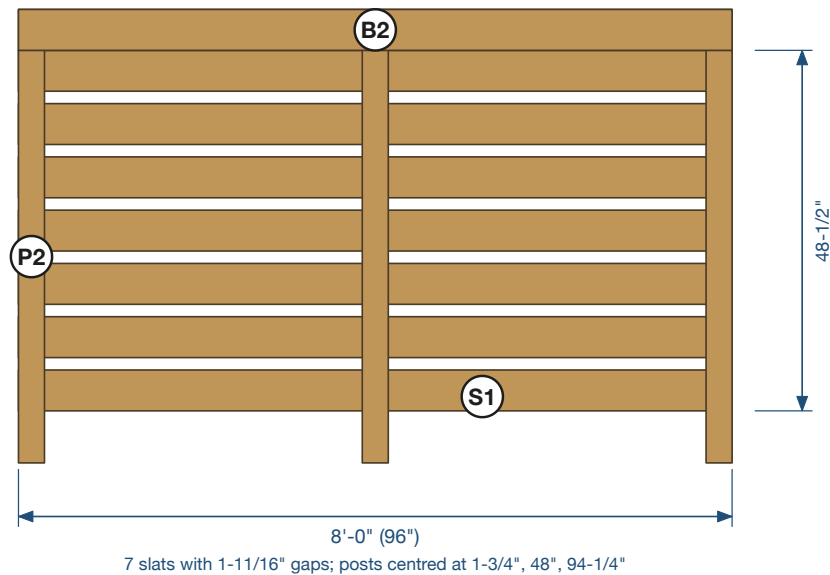


BEAMS AND RAFTERS (from above, roof deck removed)



Drawings · back wall

BACK WALL (seen from the front, the rest removed)



Part key

Every part has a code. The first letter is the assembly: F floor, P posts, B beams, R roof, S slats.

Part	Name	Stock
F1	Rim joist	2x6
F2	Floor joist	2x6
F3	Floor board	2x4
P1	Front post	4x4
P2	Back post	4x4
B1	Front beam ply	2x6
B2	Back beam ply	2x6
R1	Rafter	2x4
R2	Roof deck panel	1/2" plywood
R3	Roof deck panel	1/2" plywood
S1	Back slat	1x6
S2	End slat	1x6

Build steps

1 Cut the parts

Cut every board to length and label each piece with its part code. Cut the rafters last, after you have tested one on the beams (step 7).

- 2 x rim joist (F1) — 2x6, cut to 96" — a full 8'-0" board
- 5 x floor joist (F2) — 2x6, cut to 45"
- 11 x floor board (F3) — 2x4, cut to 96" — a full 8'-0" board, laid flat
- 3 x front post (P1) — 4x4, cut to 72-11/16"
- 3 x back post (P2) — 4x4, cut to 55-1/2"
- 2 x front beam ply (B1) — 2x6, cut to 96" — a full 8'-0" board
- 2 x back beam ply (B2) — 2x6, cut to 96" — a full 8'-0" board
- 5 x rafter (R1) — 2x4, cut to 77-9/16", plumb cut both ends, 4 in 12
- 7 x back slat (S1) — 1x6, cut to 96" — a full 8'-0" board
- 14 x end slat (S2) — 1x6, cut to 55-3/4"

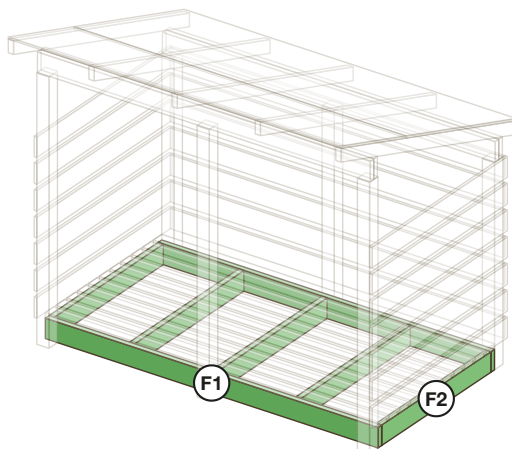
Use ground-contact pressure-treated lumber for the rims, joists and posts.

2 Prepare the site

- Pick a level, well-drained spot you can reach with a wheelbarrow, at least 3 ft from the house wall if you can (insects and fire). The roof drains to the back, so keep the back off paths and walls.
- Clear the grass and dig out about 4" over an area 1 ft bigger than the 8'-0" x 4'-0" floor all round. Fill with crushed gravel and tamp it firm and level.
- Set 6 solid concrete blocks on the gravel, one under each post position: 3 along the front and 3 along the back, at 1-3/4", 48", 94-1/4" from the left end (post centres). Level the tops to each other with a straightedge and level.

3 Build the floor frame

- Lay the two rim joists (F1) on edge, 48" apart outside to outside, on the blocks.
- Fit the floor joists (F2) between them, centred at 3/4", 24", 48", 72", 95-1/4" from the left end, and drive 3 #9 x 3" screws through the rim into each joist end.
- Square the frame: both diagonals must read 8'-11-5/16". Shim the blocks, never the frame, until it is level both ways.

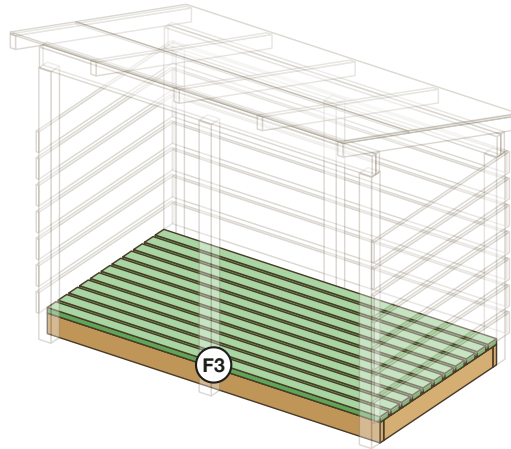


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

4 Lay the floor boards

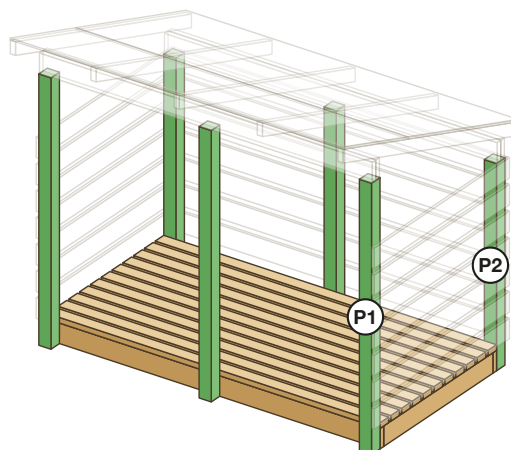
- Lay the 11 floor boards (F3) flat along the frame, flush with both ends: the first flush with the front edge, the last flush with the back edge, and 15/16" gaps between them (use a scrap spacer).
- Drive 2 #9 x 2-1/2" screws through each board into every joist.
- The gaps let rain, bark and debris fall through and air move under the stack. Do not close them.



Green: parts added in this step. Faint outline: parts added later.

5 Stand the posts

- Stand the front posts (P1, 72-11/16" long) against the outside face of the front rim and the back posts (P2, 55-1/2" long) against the back rim, each on its block, flush with the end of the frame at the ends.
- Plumb each post both ways, clamp it, drill two 1/2" holes through the post and the rim, and fit 1/2" carriage bolts with washers and nuts.
- Brace each post with a temporary diagonal board to the frame until the beams are on.

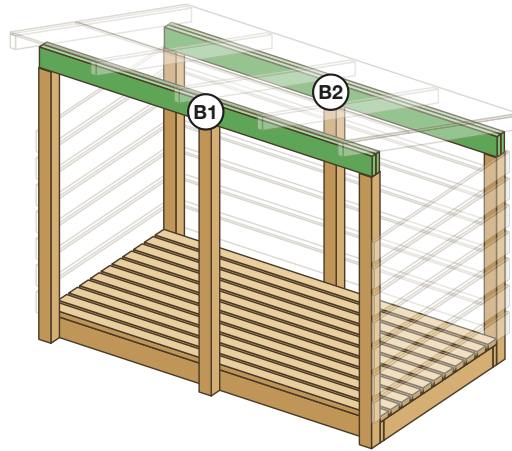


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

6 Fit the beams

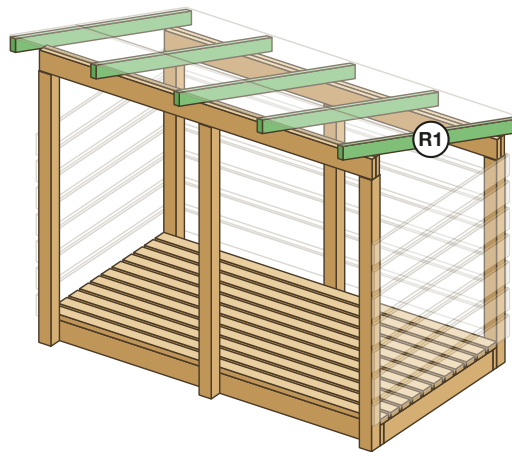
- Screw each pair of beam plies together on edge with 2 #9 x 3" screws every 16", staggered: B1 for the front beam, B2 for the back beam, both 8'-0" long.
- Fit a post cap on top of every post, set the beams in the caps flush with the ends, and fasten the caps as their maker specifies. Check the front beam top is 78-3/16" above the blocks and the back beam top is 61".



Green: parts added in this step. Faint outline: parts added later.

7 Fit the rafters

- Cut one rafter to 77-9/16" long point to long point with a plumb cut at both ends (4 in 12, 18.4 degrees). Test it: it rests on the inside top edge of the front beam and the outside top edge of the back beam, with a 12" overhang at the front and 6" at the back. Then cut the rest from it.
- Set the rafters (R1) flush with both ends of the beams and centred at 3/4", 24", 48", 72", 95-1/4" from the left end.
- Toe-screw each rafter to both beams with 2 #9 x 3" screws each side and fit a hurricane tie at each beam.

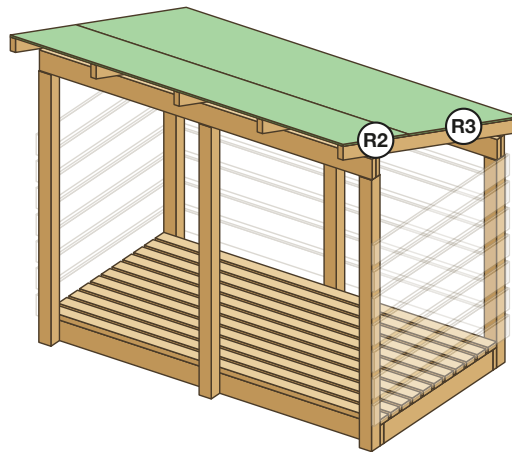


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

8 Sheath the roof

- Nail the 1/2" plywood roof deck (R2, R3) to the rafters, starting with a full-width row at the low back edge; the ripped row goes at the high front edge.
- Keep the deck flush with the outside of the end rafters and the rafter tips. Fit H-clips in the joint between rows, one between each pair of rafters.
- Nail every 6" along the panel edges and every 12" into the rafters in between.



Green: parts added in this step. Faint outline: parts added later.

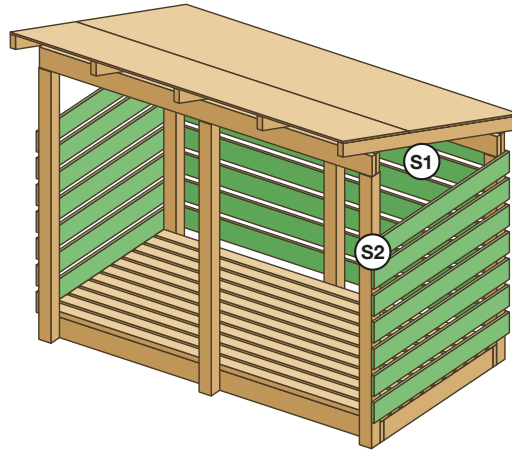
9 Roof it

- Nail drip edge along the low back eave, lay the underlayment from the bottom up with 2" laps, then drip edge along both rakes and the high front edge over the underlayment.
- Shingle from the back eave up, following the shingle maker's instructions for 4 in 12 (about 2 bundles). Finish the high front edge with a cut row folded over the drip edge.

Build steps (continued)

10 Slat the back and ends

- Screw the back slats (S1) across the outside of the back posts, the first flush with the top of the floor boards and the top one tight under the back beam: 7 rows with 1-11/16" gaps. Use 2 #8 x 1-5/8" screws into every post.
- Screw the end slats (S2) to the outside of the end posts at the same heights. They run from the front face of the front post to the back face of the back slats.
- Leave the front open.



Green: parts added in this step. Faint outline: parts added later.

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About this plan

Not engineered. Check local codes. Build at your own risk.

All dimensions, the cut list and the shopping list in this plan are calculated from the size you chose. They were not test-built at this exact size. Measure your actual lumber before cutting, because dressed sizes vary between mills and stores.

Lumber and plywood sheets can be heavy. Lift with help, wear eye protection when cutting, and follow your tool manufacturer's instructions.

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