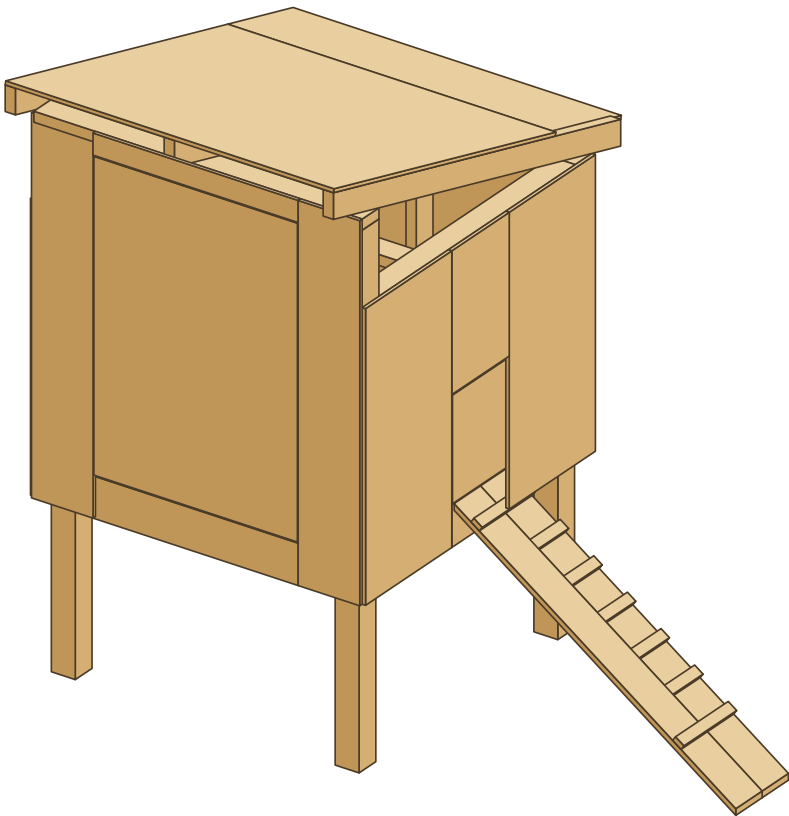


FREE PLAN

4' x 4' Chicken Coop for 4 Hens

Step-by-step build plan with dimensioned drawings



Flock size	4 hens (4 sq ft each, plus an outside run)
Floor size	4'-0" x 4'-0" (16 sq ft)
Overall	4'-1" wide x 5'-0" deep x 6'-10-15/16" high
Floor height	24" off the ground
Walls	48" front, 36" back (framed, on the floor)
Roof	single slope, 3.2 in 12, 6" overhang front and back
Inside	1 nest box, 1 roost bar, coop door, pop door and ramp
Plan ID	CC-48x48

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 coop. 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	16 steps	20 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 8/10/12 ft stock	—	✓
Plywood and siding sheet layouts (4x8)	—	✓
Shopping list: boards, sheets, roofing, waste %	—	✓
Fastener and hardware counts by size	—	✓
Tools list, finish guide, bedding and predator check	—	✓

Get the Premium plan — \$19.99

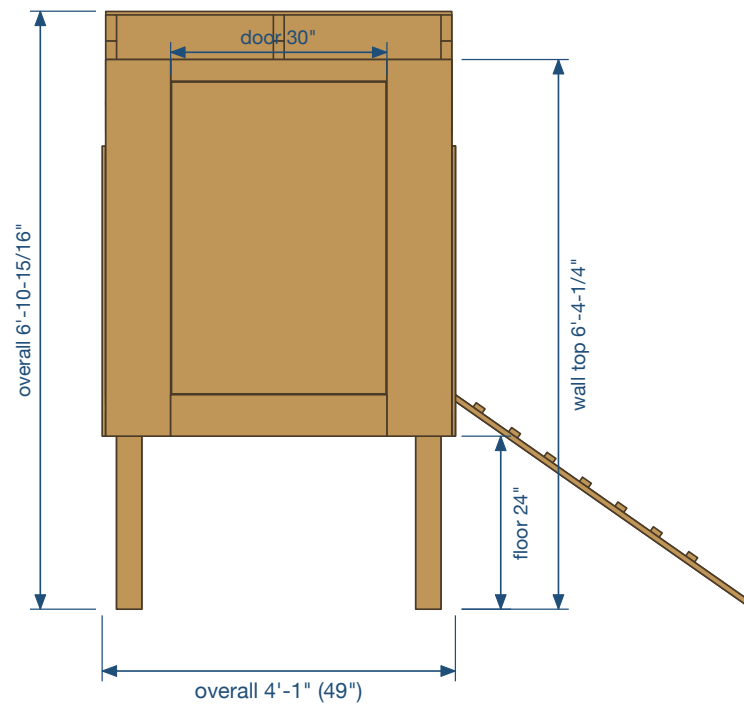
One-time purchase. Instant PDF download.

Need a different size?

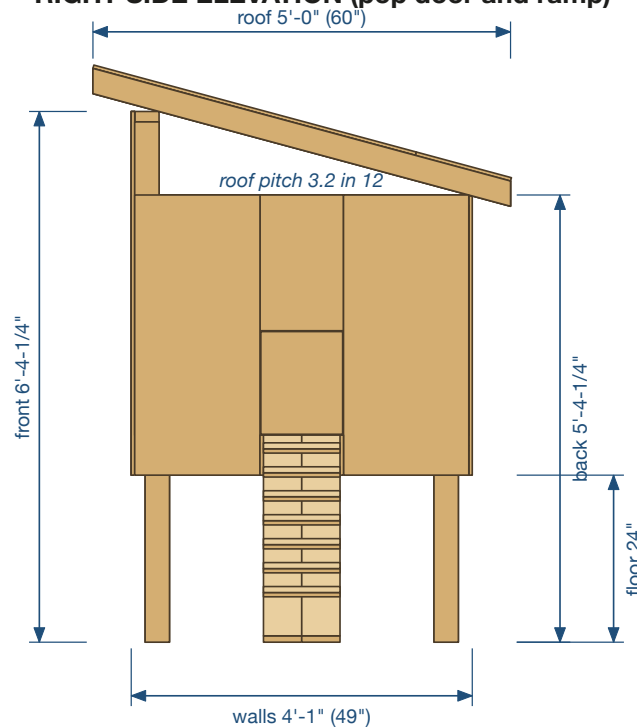
We generate this plan for other flock sizes too, with the cut list and shopping list recalculated for the new size.

Drawings · elevations

FRONT ELEVATION



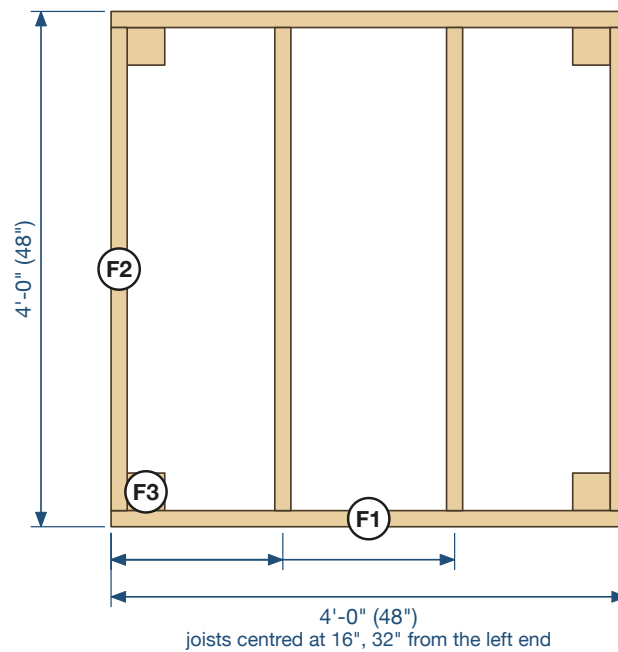
RIGHT SIDE ELEVATION (pop door and ramp)



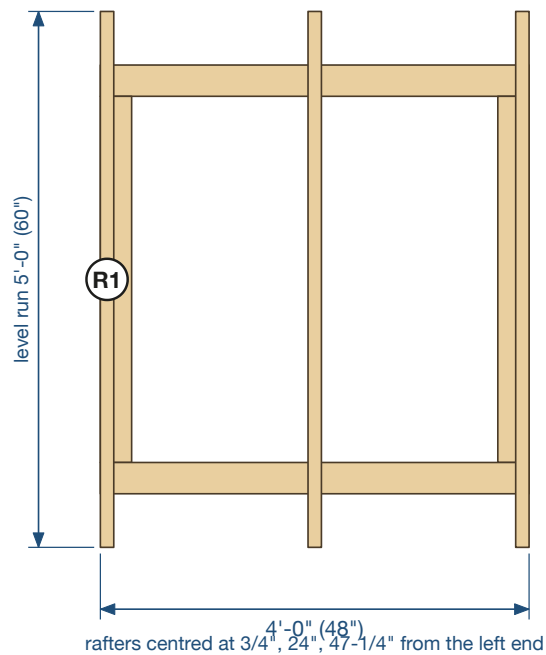
Drawings are not to scale. Build from the written dimensions.

Drawings · floor and roof framing

FLOOR FRAMING PLAN (from above, deck removed)

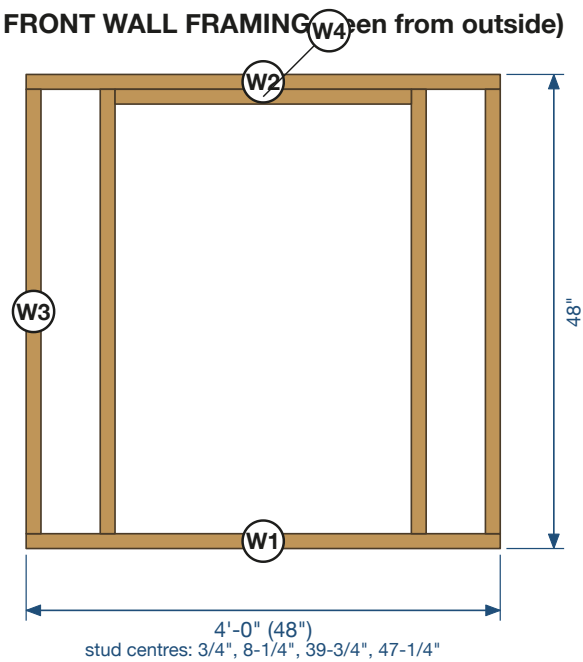


ROOF FRAMING PLAN (from above, roof deck removed)

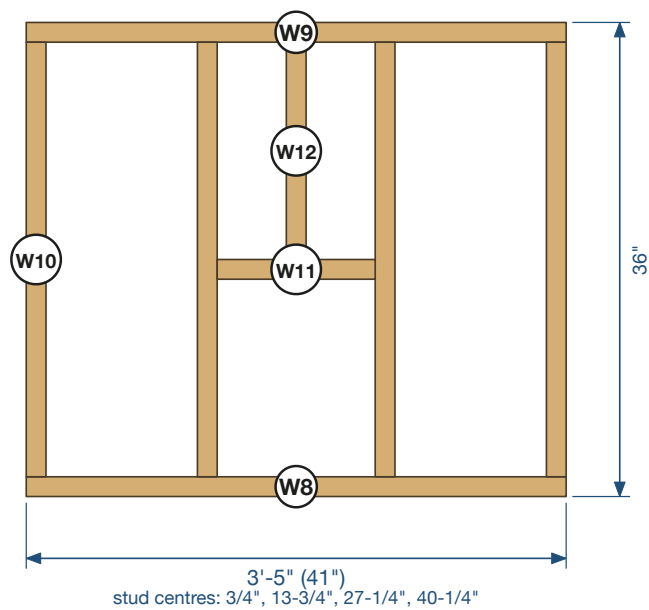


Drawings · wall framing

FRONT WALL FRAMING (seen from outside)

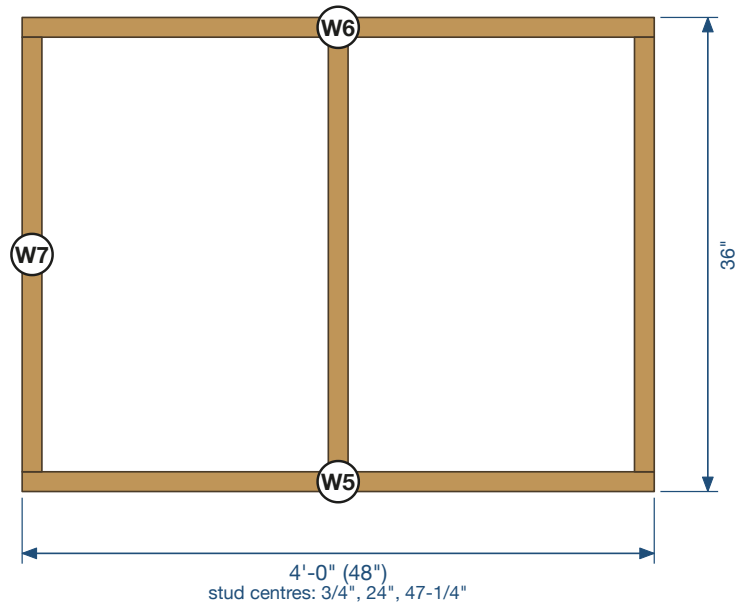


RIGHT SIDE WALL FRAMING (seen from outside)

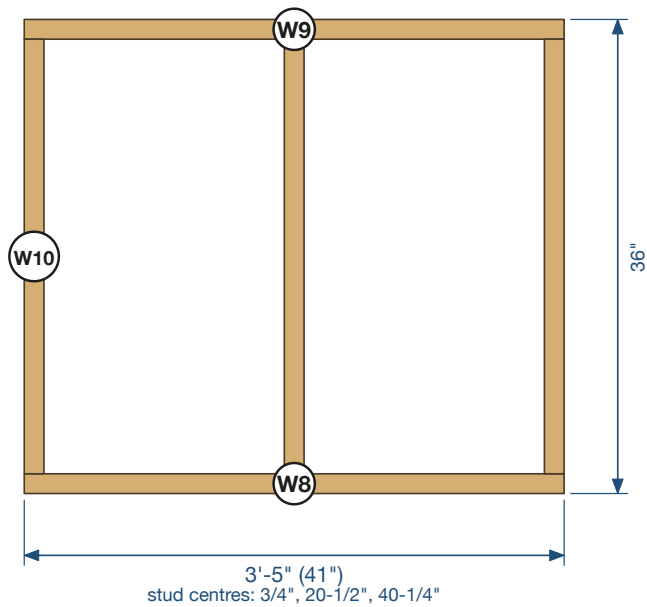


Drawings · wall framing (continued)

BACK WALL FRAMING (seen from outside)



LEFT SIDE WALL FRAMING (seen from outside)



Part key

Every part has a code. The first letter is the assembly: F floor, W walls, R roof, S siding, D doors, N nest boxes and roosts, P ramp.

Part	Name	Stock
F1	Rim joist	2x4
F2	Floor joist	2x4
F3	Leg	4x4
F4	Floor deck panel	3/4" plywood
W1	Front wall bottom plate	2x4
W2	Front wall top plate	2x4
W3	Front wall stud	2x4
W4	Door header	2x4
W5	Back wall bottom plate	2x4
W6	Back wall top plate	2x4
W7	Back wall stud	2x4
W8	Side wall bottom plate	2x4
W9	Side wall top plate	2x4
W10	Side wall stud	2x4
W11	Pop-door header	2x4
W12	Pop-door cripple	2x4
R1	Rafter	2x4
R2	Roof deck panel	1/2" plywood
R3	Roof deck panel	1/2" plywood
S1	Front siding panel, left of opening	1/2" exterior siding panel
S2	Front siding panel, right of opening	1/2" exterior siding panel

Part	Name	Stock
S3	Front siding panel, below opening	1/2" exterior siding panel
S4	Front siding panel, above opening	1/2" exterior siding panel
D1	Coop door	1/2" exterior siding panel
S5	Back siding panel	1/2" exterior siding panel
S6	Left side siding panel	1/2" exterior siding panel
S7	Right side siding panel, left of opening	1/2" exterior siding panel
S8	Right side siding panel, right of opening	1/2" exterior siding panel
S9	Right side siding panel, below opening	1/2" exterior siding panel
S10	Right side siding panel, above opening	1/2" exterior siding panel
D2	Pop door	1/2" exterior siding panel
D3	Coop door stile	1x4
D4	Coop door rail	1x4
D5	Pop door batten	1x4
N1	Nest box divider	1/2" plywood
N2	Nest box top	1/2" plywood
N3	Nest box lip	1x4
N4	Roost ledger	2x4
N5	Roost bar	2x4
P1	Ramp board	1x6
P2	Ramp cleat	1x2

Build steps

1 Prepare the site

- Pick a level, well-drained spot. Mark a 4'-0" x 4'-0" rectangle for the floor frame.
- Set a paver or concrete block level at each corner so the legs do not sit in wet soil. The legs stand 1-1/2" in from the outside of the frame on both sides.

2 Cut the framing

Cut every board to length before assembly and label each piece with its part code.

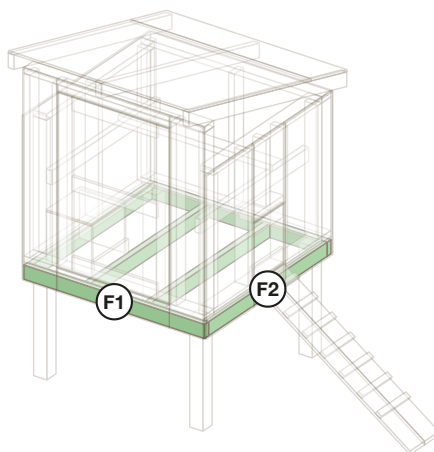
- 2 x rim joist (F1) — 2x4, cut to 48"
- 4 x floor joist (F2) — 2x4, cut to 45"
- 4 x leg (F3) — 4x4, cut to 27-1/2" (ground-contact rated)
- 1 x front wall bottom plate (W1) — 2x4, cut to 48"
- 1 x front wall top plate (W2) — 2x4, cut to 48"
- 4 x front wall stud (W3) — 2x4, cut to 45"
- 1 x door header (W4) — 2x4, cut to 30"
- 1 x back wall bottom plate (W5) — 2x4, cut to 48"
- 1 x back wall top plate (W6) — 2x4, cut to 48"
- 3 x back wall stud (W7) — 2x4, cut to 33"
- 2 x side wall bottom plate (W8) — 2x4, cut to 41"
- 2 x side wall top plate (W9) — 2x4, cut to 41"
- 7 x side wall stud (W10) — 2x4, cut to 33"
- 1 x pop-door header (W11) — 2x4, cut to 12"
- 1 x pop-door cripple (W12) — 2x4, cut to 16-1/2"
- 3 x rafter (R1) — 2x4, cut to 63-1/16" (plumb cut both ends)
- 2 x coop door stile (D3) — 1x4, cut to 43"
- 3 x coop door rail (D4) — 1x4, cut to 22-1/2"
- 2 x pop door batten (D5) — 1x4, cut to 11-1/2"
- 1 x nest box lip (N3) — 1x4, cut to 13"
- 2 x roost ledger (N4) — 2x4, cut to 41"
- 1 x roost bar (N5) — 2x4, cut to 41" (wide face up)
- 2 x ramp board (P1) — 1x6, cut to 50-13/16" (cut both ends at 35 deg)
- 7 x ramp cleat (P2) — 1x2, cut to 11"

Square both ends of every board with a speed square before measuring.

Build steps (continued)

3 Build the floor frame

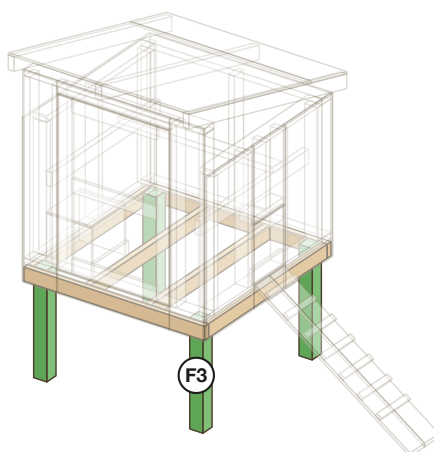
- Lay the two rim joists (F1) on edge, 48" apart outside to outside.
- Fit the floor joists (F2) between them: one flush with each end, and the rest centred 16", 32" from the left end.
- Drive 2 #9 x 3" screws through the rim into each joist end. Check that both diagonals read 5'-7-7/8".



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

4 Bolt on the legs

- Tip the frame on its side. Set a leg (F3) into each inside corner, tight against the rim and the end joist, with its top flush with the top of the frame.
- Drill through and fix each leg with 2 carriage bolts through the rim and 2 through the end joist. Stagger the bolts so they miss each other.
- Stand the frame on its legs on the pavers. The underside of the frame should be 24" off the ground. Level it by trimming or shimming the legs.

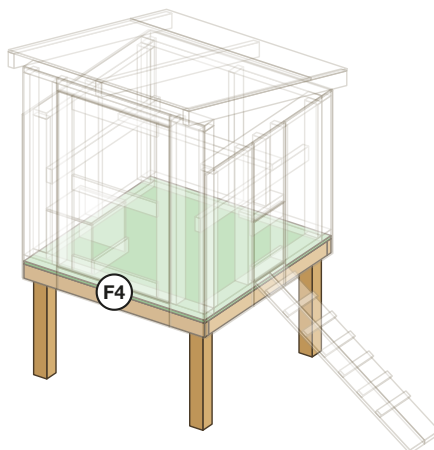


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

5 Lay the floor

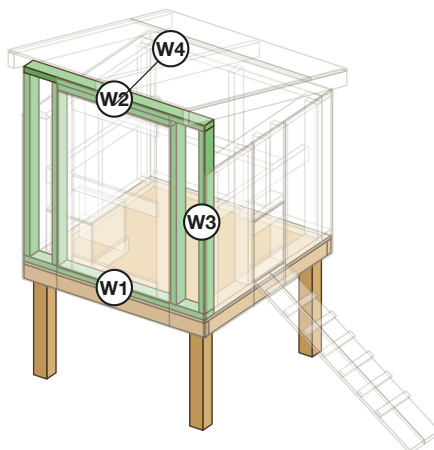
- Screw the 3/4" plywood floor (F4) to the frame, flush with the outside on all sides.
- Use #8 x 1-5/8" screws every 8" along every joist and rim.



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

6 Frame the front wall

- Lay the two plates (W1, W2) side by side and mark the stud positions on both.
- Studs (W3) are centred at 3/4", 8-1/4", 39-3/4", 47-1/4" from the left end of the plates.
- Leave a 30" wide rough opening for the coop door, from 9" to 39". Fit the door header (W4) flat between the studs either side, tight under the top plate.
- The bottom plate runs straight across the doorway. It keeps the bedding in.
- Screw through the plates into each stud end with 2 #9 x 3" screws.

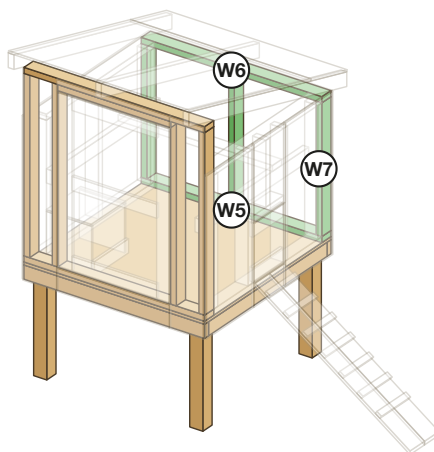


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

7 Frame the back wall

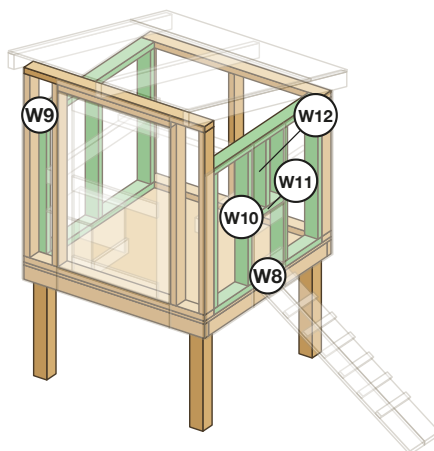
- Lay the two plates (W5, W6) side by side and mark the stud positions on both.
- Studs (W7) are centred at 3/4", 24", 47-1/4" from the left end of the plates.
- Screw through the plates into each stud end with 2 #9 x 3" screws.



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

8 Frame the side walls

- The side walls fit between the front and back walls. Lay out both pairs of plates (W8, W9).
- Left wall studs (W10) are centred at 3/4", 20-1/2", 40-1/4" from the front end of the plates.
- The right wall has the pop-door opening, 12" wide and 15" high, from 14-1/2" to 26-1/2". Its studs are centred at 3/4", 13-3/4", 27-1/4", 40-1/4".
- Fit the pop-door header (W11) flat between the opening studs, 15" above the bottom plate, and the cripple (W12) between the header and the top plate.
- Screw through the plates into each stud end with 2 #9 x 3" screws.



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

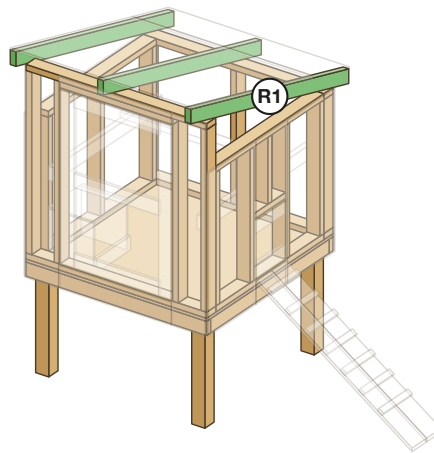
Build steps (continued)

9 Stand and join the walls

- Stand the front and back walls on the deck, flush with the outside edges. Fit the side walls between them.
- Screw each bottom plate down through the deck into the frame every 16". Screw the corner studs together every 16".
- Check the walls are plumb, and that the tops of the side walls line up with the top of the back wall.

10 Set the rafters

- Cut the rafters (R1) with a plumb cut at 15.1 degrees on both ends. Each rafter is 63-1/16" long at the long point.
- Set one flush with each end of the coop and the rest centred at 24". They overhang 6" at the front and 6" at the back (measured level from the frame).
- Each rafter rests on the inside top edge of the front wall and the outside top edge of the back wall. Fix it to both plates with a rafter tie and 2 toe-screws.

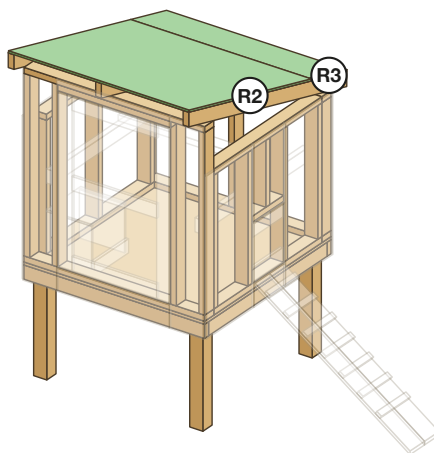


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

11 Deck and roof

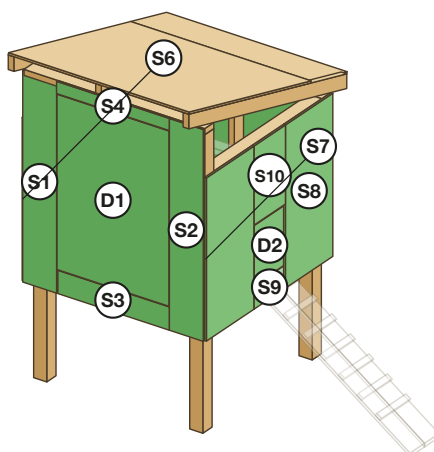
- Screw the 1/2" plywood roof deck (R2, R3) to the rafters, flush with the front ends of the rafters and with both ends of the coop.
- Nail drip edge along the front and back, lay underlayment, then the roofing, then drip edge on the sloped ends. The roof is 3.2 in 12; follow the roofing maker's instructions for that pitch.



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

12 Hang the siding

- Cut each siding panel to size. Panel joints land on the stud centres at 48".
- On the front panel, mark the coop door opening (30" x 43-1/2") and cut it out with a jigsaw. Do the same for the pop door on the right side panel. Keep the cut-out pieces; they become the doors.
- Fix the panels from the bottom of the floor frame up to the top of each wall. Nail or screw every 6" along the edges and every 12" into the studs.

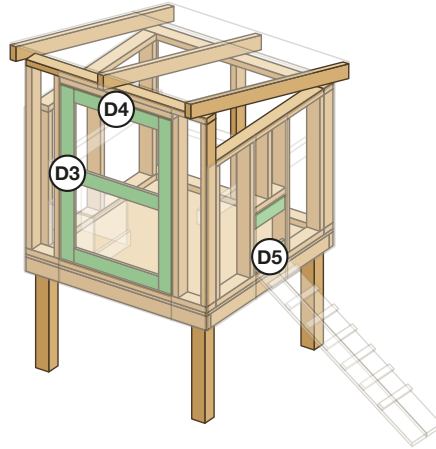


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

13 Build and hang the doors

- Trim 1/8" off every edge of each door piece so it swings clear.
- Screw the 1x4 battens (D3, D4, D5) to the inside face of each door, 1/4" in from the edges of the opening.
- Hang the coop door on 3 hinges and the pop door on 2. Fit a barrel bolt and a hasp with a snap hook to the coop door, and a barrel bolt to the pop door.



Green: parts added in this step. Faint outline: parts added later or drawn see-through.

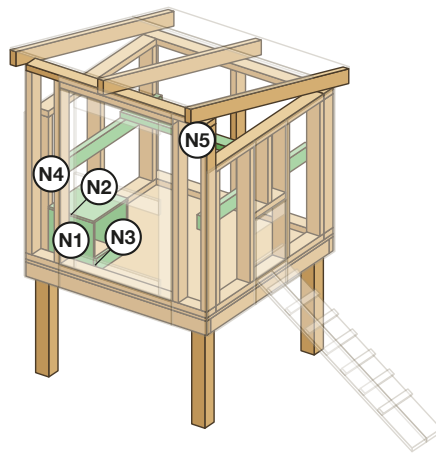
14 Cover the vents

- The gaps between the rafters above both walls, and the triangles above the side walls, are the vents (about 6.6 sq ft in total). Leave them open.
- Staple 1/2" hardware cloth over every vent, every 3". Chicken wire is not enough: raccoons tear it.

Build steps (continued)

15 Nest boxes and roosts

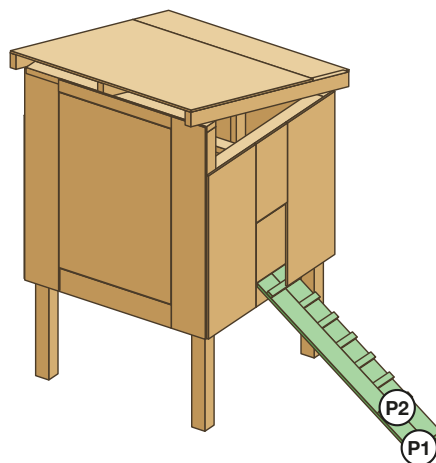
- Screw the nest box dividers (N1) to the floor and the left wall, 12-1/2" apart, then the top and the front lip. That makes 1 nest box, each 12" wide, 12" deep and 12" high.
- Screw a roost ledger (N4) along each side wall, into every stud, with its top 22-1/2" above the floor.
- Lay the roost bar (N5) wide face up across the ledgers, centred 32-1/2" from the front wall, and screw each end down.



Green: parts added in this step. Faint outline: parts added later or drawn see-through.

16 Build the ramp

- Cut both ramp boards (P1) at 35 degrees on each end, 50-1/4" long. Lay them side by side.
- Screw a cleat (P2) across both boards every 6", starting 3" from the top. The cleats hold the boards together and give the hens grip.
- Hook the top of the ramp under the pop door; its foot lands about 41-3/16" out from the coop.



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

Free vs Premium

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Tools list, finish guide, bedding and predator check	—	✓

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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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