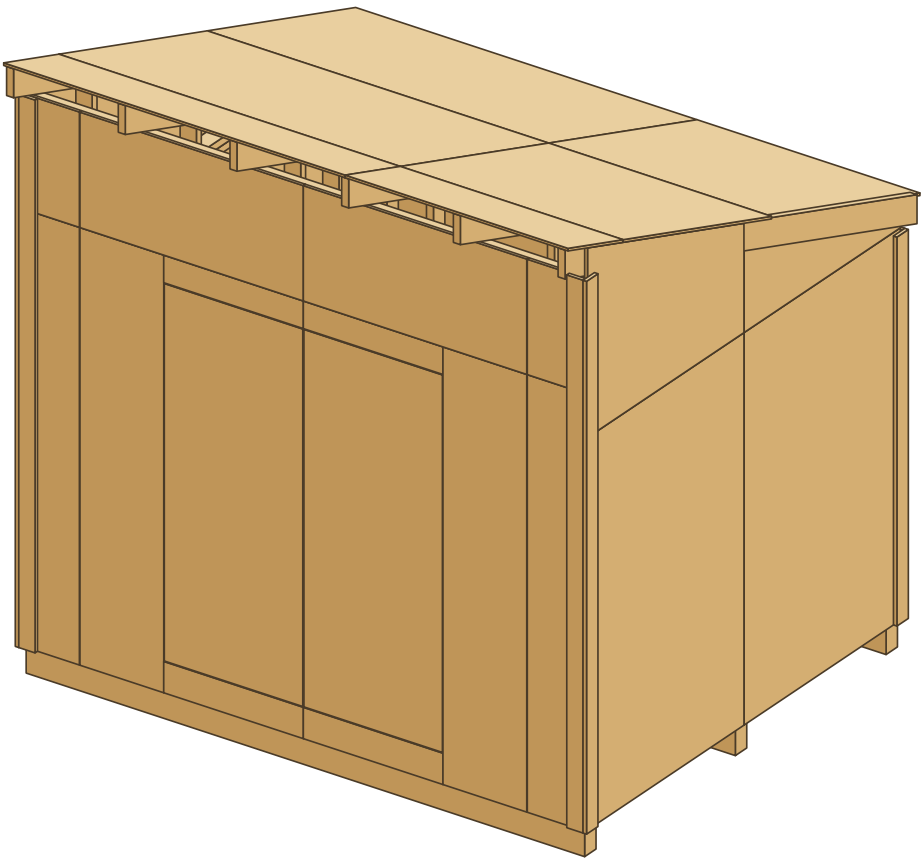


FREE PLAN

8' x 10' Lean-To Shed

Step-by-step build plan with dimensioned drawings



Floor size	8'-0" deep x 10'-0" wide (80 sq ft)
Overall	10'-2-3/4" wide x 9'-0" deep x 10'-4-1/16" high
Walls	front 102-13/16", back 72" framed, 2x4 studs at 16" centres
Roof	single slope, 4 in 12, 2x6 rafters at 24" centres, 6" overhang
Door	double doors, 60" wide x 75-1/2" high opening
Foundation	3 4x6 skids on concrete blocks over a gravel pad
Plan ID	LT-96x120

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 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	17 steps	21 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	—	✓
Plywood and T1-11 sheet layouts (4x8)	—	✓
Shopping list: boards, sheets, shingles, waste %	—	✓
Nail, hardware and gravel quantities	—	✓
Tools list, finish guide, anchoring and setup	—	✓

Get the Premium plan — \$19.99

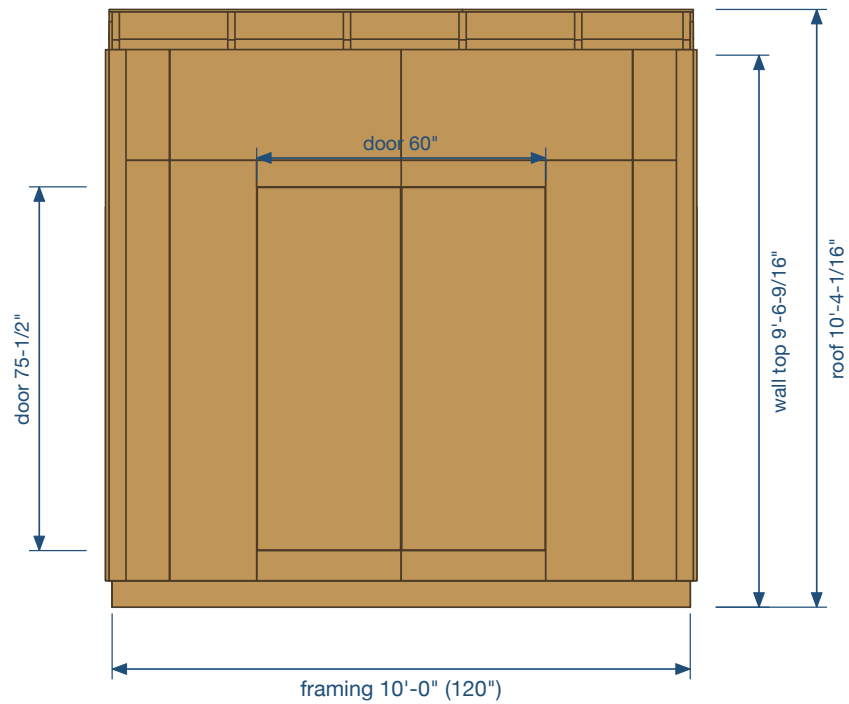
One-time purchase. Instant PDF download.

Need a different size?

We generate this shed in other sizes too, with every drawing, the cut list and the shopping list recalculated for the new size.

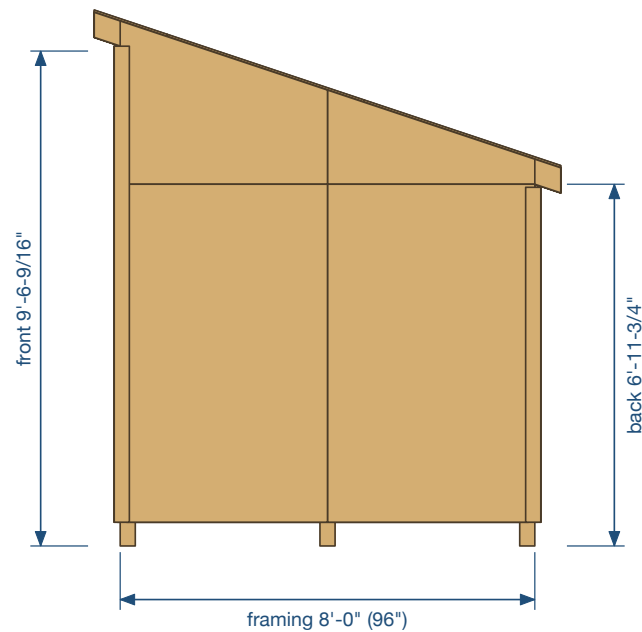
Drawings · elevations

FRONT ELEVATION (tall wall, door)



RIGHT END ELEVATION (front at the left)

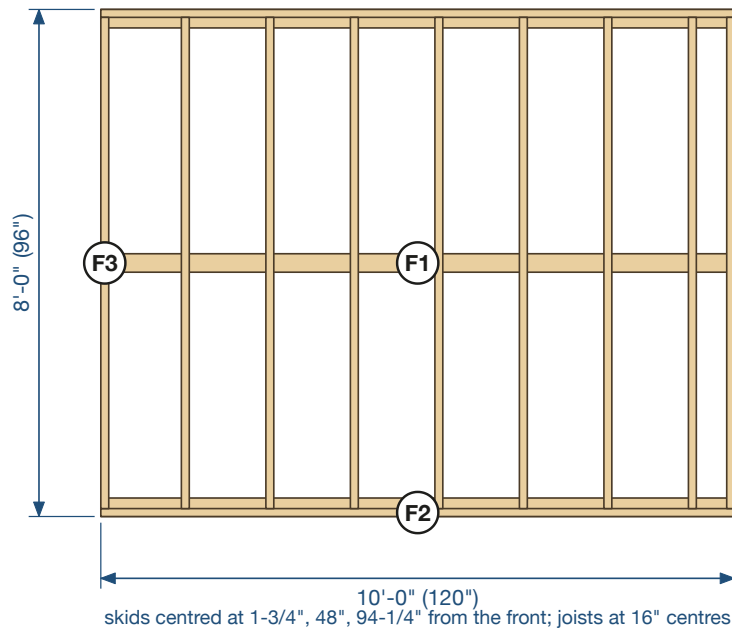
single-slope roof 4 in 12, draining to the back



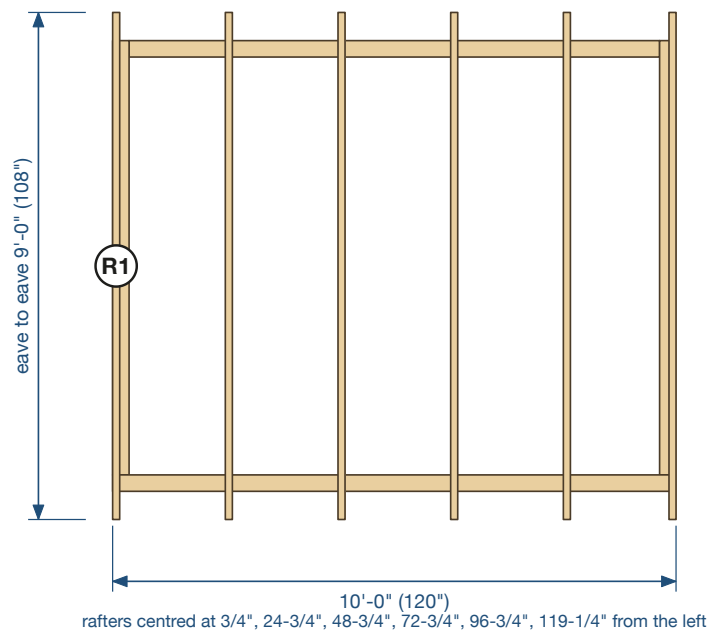
Drawings are not to scale. Build from the written dimensions.

Drawings · floor and roof framing

FLOOR FRAMING PLAN (from above, floor removed)

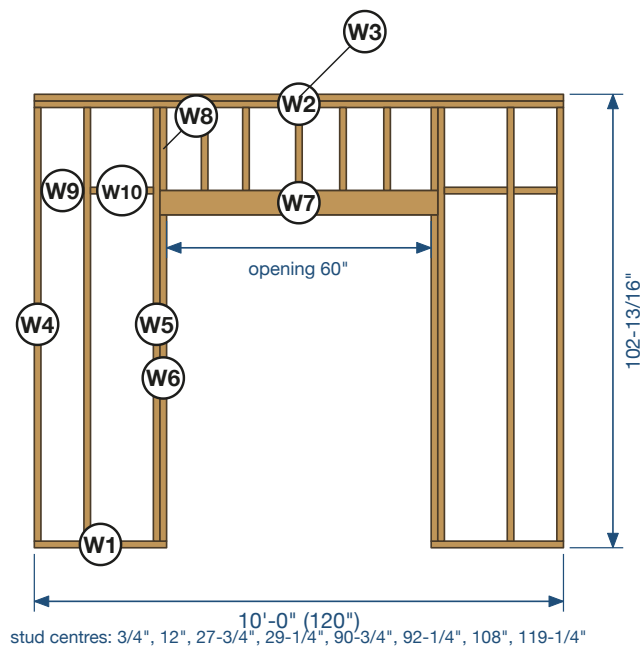


ROOF FRAMING PLAN (from above, roof deck removed)

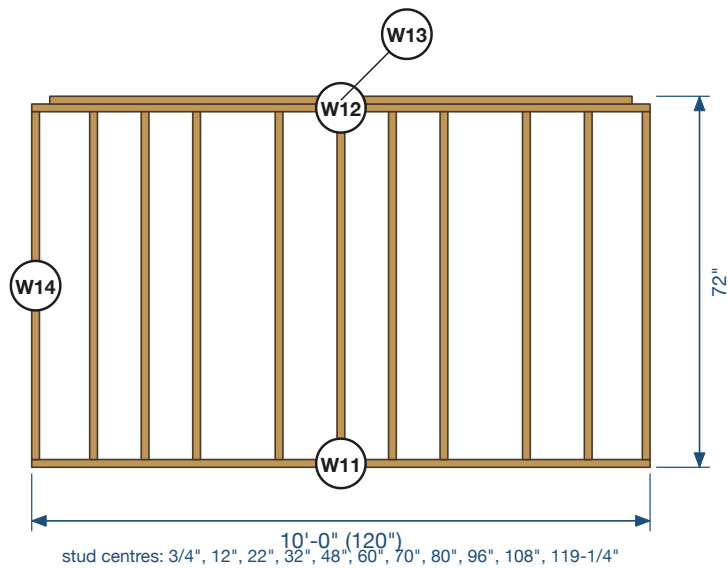


Drawings · wall framing

FRONT (TALL) WALL FRAMING (seen from outside)



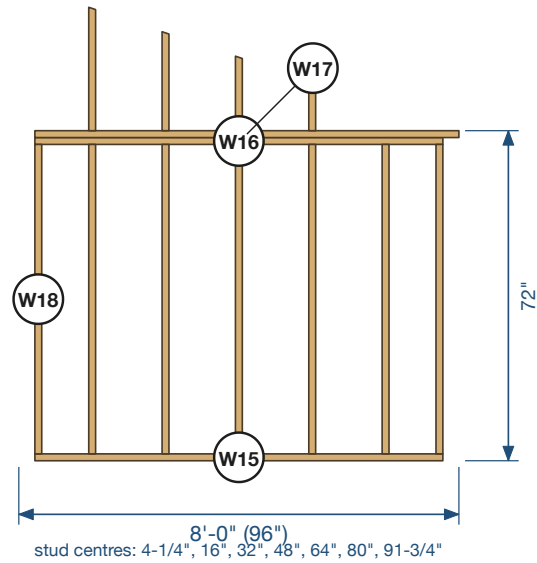
BACK (LOW) WALL FRAMING (seen from outside)



Drawings · end wall framing

END WALL AND RAKE FRAMING (seen from outside)

rake studs W19-W22: top cut to the roof slope, lengths in the cut list



Part key

Every part has a code. The first letter is the assembly: F floor and skids, W walls and rakes, R roof, S siding, D doors, T trim.

Part	Name	Stock
F1	Skid	4x6
F2	Rim joist	2x6
F3	Floor joist	2x6
F4	Floor panel	3/4" plywood
F5	Floor panel	3/4" plywood
W1	Front wall bottom plate	2x4
W2	Front wall top plate	2x4
W3	Front wall upper top plate	2x4
W4	Front wall stud	2x4
W5	King stud	2x4
W6	Jack stud	2x4
W7	Door header	2x6
W8	Cripple stud	2x4
W9	Siding joint block	2x4
W10	Siding joint block	2x4
W11	Back wall bottom plate	2x4
W12	Back wall top plate	2x4
W13	Back wall upper top plate	2x4
W14	Back wall stud	2x4
W15	End wall bottom plate	2x4
W16	End wall top plate	2x4
W17	End wall upper top plate	2x4
W18	End wall stud	2x4
W19	Rake stud	2x4

Part	Name	Stock
W20	Rake stud	2x4
W21	Rake stud	2x4
W22	Rake stud	2x4
R1	Rafter	2x6
R2	Roof deck panel	1/2" plywood
R3	Roof deck panel	1/2" plywood
R4	Roof deck panel	1/2" plywood
R5	Roof deck panel	1/2" plywood
S1	Front siding panel	5/8" T1-11 siding panel
S2	Front upper siding	5/8" T1-11 siding panel
S3	Back siding panel	5/8" T1-11 siding panel
S4	Front siding beside door	5/8" T1-11 siding panel
S5	Front siding below door	5/8" T1-11 siding panel
S6	Front siding above door	5/8" T1-11 siding panel
D1	Door leaf	5/8" T1-11 siding panel
S7	Front upper siding	5/8" T1-11 siding panel
S8	Back siding panel	5/8" T1-11 siding panel
S9	End siding panel	5/8" T1-11 siding panel
S10	End upper siding	5/8" T1-11 siding panel
S11	End upper siding	5/8" T1-11 siding panel
D2	Door stile	1x4
D3	Door rail	1x4
T1	Corner board, front	1x4
T2	Corner board, back	1x4

Build steps

1 Prepare the site

- Pick a level, well-drained spot. The roof drains to the back, so keep the low side away from paths and doors, and leave at least a foot between the back wall and any fence or house. Check local rules on setbacks and on sheds of this size (80 sq ft) before you start.
- Dig out a pad 1 ft bigger than the shed on every side (12'-0" x 10'-0"), lay landscape fabric and spread about 1.6 cu yd of crushed gravel 4" deep. Rake it level and tamp it hard.
- Set 12 solid concrete blocks in 3 rows under the skid lines, every 4 ft, level with each other (use a string line and a level).

2 Cut the framing

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

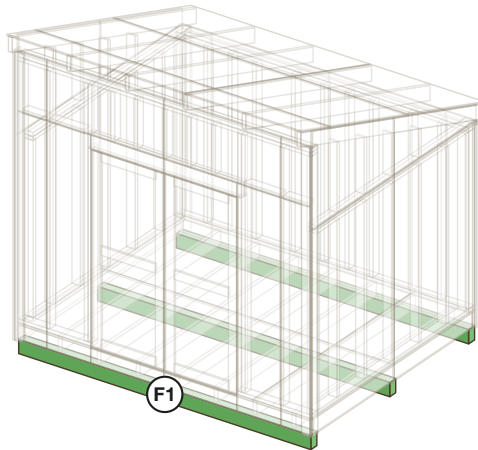
- 3 x skid (F1): 4x6, cut to 120" (ground-contact rated, on edge) (a full 10'-0" board)
- 2 x rim joist (F2): 2x6, cut to 120" (a full 10'-0" board)
- 9 x floor joist (F3): 2x6, cut to 93"
- 2 x front wall bottom plate (W1): 2x4, cut to 30" (stops at the door opening)
- 1 x front wall top plate (W2): 2x4, cut to 120" (a full 10'-0" board)
- 1 x front wall upper top plate (W3): 2x4, cut to 120" (a full 10'-0" board)
- 4 x front wall stud (W4): 2x4, cut to 98-5/16"
- 2 x king stud (W5): 2x4, cut to 98-5/16"
- 2 x jack stud (W6): 2x4, cut to 74"
- 2 x door header (W7): 2x6, cut to 63" (2 plies, on edge)
- 7 x cripple stud (W8): 2x4, cut to 18-13/16" (above the header)
- 2 x siding joint block (W9): 2x4, cut to 9-3/4" (on flat, between studs)
- 2 x siding joint block (W10): 2x4, cut to 14-1/4" (on flat, between studs)
- 1 x back wall bottom plate (W11): 2x4, cut to 120" (a full 10'-0" board)
- 1 x back wall top plate (W12): 2x4, cut to 120" (a full 10'-0" board)
- 1 x back wall upper top plate (W13): 2x4, cut to 113" (stops short of the ends; the end walls' upper plates lap over)
- 11 x back wall stud (W14): 2x4, cut to 67-1/2"
- 2 x end wall bottom plate (W15): 2x4, cut to 89"
- 2 x end wall top plate (W16): 2x4, cut to 89"
- 2 x end wall upper top plate (W17): 2x4, cut to 92-1/2" (laps over the back wall)
- 14 x end wall stud (W18): 2x4, cut to 67-1/2"
- 2 x rake stud (W19): 2x4, cut to 26-15/16" (top cut at 4 in 12)
- 2 x rake stud (W20): 2x4, cut to 21-9/16" (top cut at 4 in 12)
- 2 x rake stud (W21): 2x4, cut to 16-1/4" (top cut at 4 in 12)
- 2 x rake stud (W22): 2x4, cut to 10-15/16" (top cut at 4 in 12)
- 6 x rafter (R1): 2x6, cut to 115-11/16" (plumb cut both ends, 4 in 12)
- 4 x door stile (D2): 1x4, cut to 74-3/4"
- 6 x door rail (D3): 1x4, cut to 22-1/4"
- 4 x corner board, front (T1): 1x4, cut to 110-3/16"
- 4 x corner board, back (T2): 1x4, cut to 77-9/16"

Square both ends of every board with a speed square before measuring. Rafters and rake studs get angled cuts; mark them from the drawings.

Build steps (continued)

3 Lay the skids

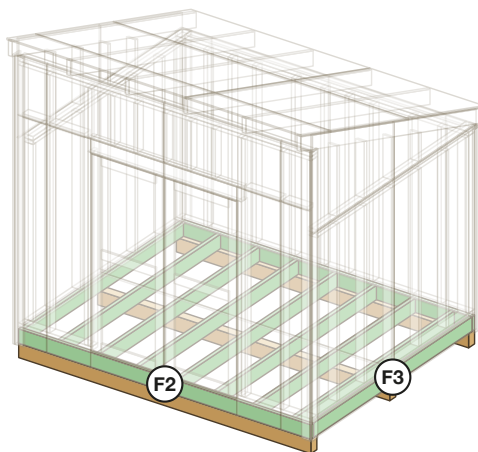
- Lay the 3 skids (F1) on edge on the blocks, running the full 10'-0" width, with their centres at 1-3/4", 48", 94-1/4" from the front edge. The outside faces of the front and back skids line up with the outside of the floor frame.
- Check that the skids are level along their length and with each other, and that the diagonals of the outer skid ends match. Shim with solid shims, never with wood scraps.



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

4 Build the floor frame

- Stand the front and back rim joists (F2) on edge, 96" apart outside to outside.
- Fit the floor joists (F3) between them, running front to back: one flush with each end and the rest centred at 16", 32", 48", 64", 80", 96", 112" from the left end.
- Nail through the rims into each joist end with 3 16d nails. Check that both diagonals read 12'-9-11/16".
- Set the frame on the skids, square it, and toe-nail each joist to every skid it crosses.

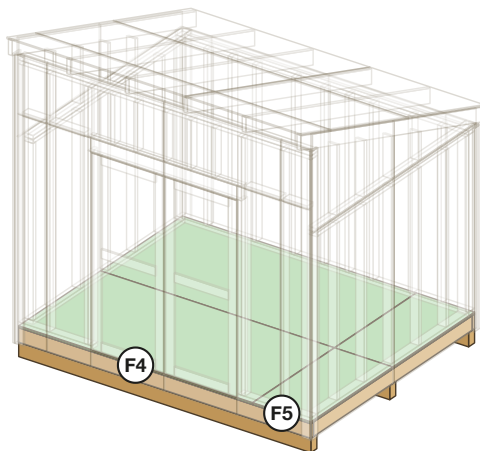


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

5 Lay the floor

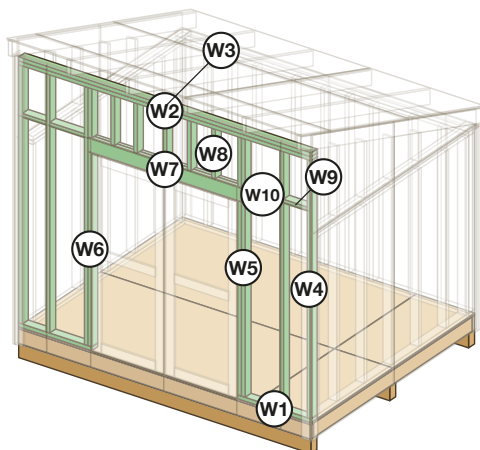
- Nail down the 3/4" plywood floor (F4, F5), long edges running side to side across the joists. The end joints land on the joist centred at 96" from the left.
- Use 8d ring-shank nails every 6" at the edges and every 12" along the joists. Construction adhesive on the joists stops squeaks.



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

6 Frame the front (tall) wall

- The front wall is the tall one: 102-13/16" framed, the full 10'-0" long. Lay out the bottom plate, top plate and upper top plate (W1, W2, W3).
- Door rough opening: 60" wide, from 30" to 90" measured from the left outside edge, and 75-1/2" high from the floor. King studs (W5) and jack studs (W6) frame each side; the doubled 2x6 header (W7) sits on the jacks, and cripple studs (W8) fill the space above it.
- Other studs (W4) are centred at 3/4", 12", 108", 119-1/4" from the left outside edge.
- Nail flat 2x4 blocks (W9, W10) between the studs, centred 81" above the floor: they carry the horizontal siding joint. The header top is at the same height.
- The bottom plate stops at the jack studs, so the doorway is open to the floor.

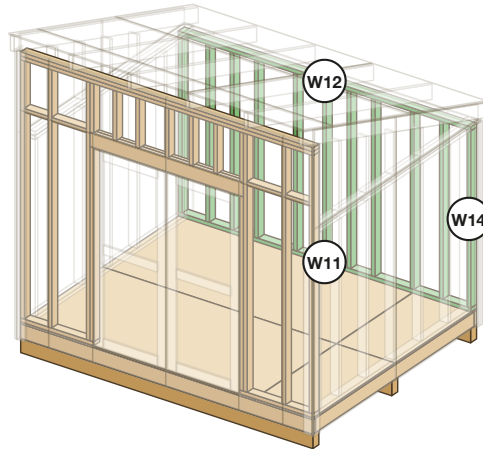


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

7 Frame the back (low) wall

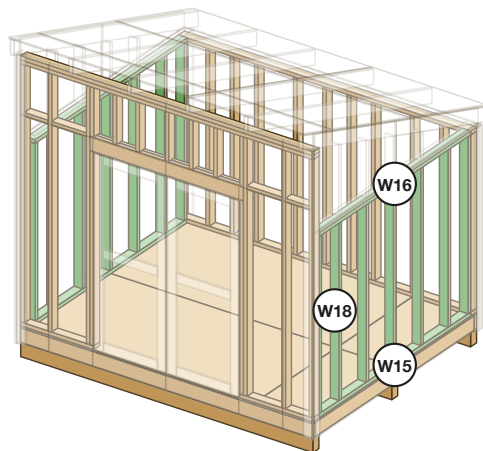
- The back wall is 72" framed and the full 10'-0" long, with no opening. Studs (W14) are centred at 3/4", 12", 22", 32", 48", 60", 70", 80", 96", 108", 119-1/4" from the left outside edge.
- Leave its upper top plate off for now. It stops 3-1/2" short of each end so the end walls' upper plates lap over the corners.



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

8 Frame the end walls

- The two end walls fit between the front and back walls (89" long) and stand 72" high, the same as the back wall. Studs (W18) are centred at 4-1/4", 16", 32", 48", 64", 80", 91-3/4" from the front outside edge.
- Nail through the plates into each stud end with 2 16d nails. Leave the upper top plates off.

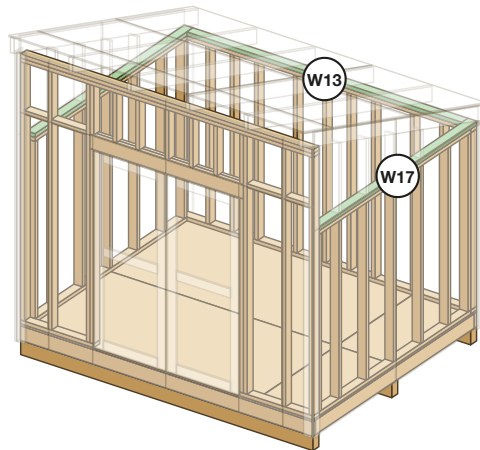


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

9 Raise the walls

- Stand the front and back walls first, flush with the outside of the floor, then the end walls between them.
- Nail the bottom plates down through the floor into the joists and rims, 2 16d nails every 16" (not in the doorway). Nail each end wall's end studs to the front and back walls every 16".
- Plumb each wall with a level and brace it with a temporary diagonal board. The tall front wall needs a brace at each end until the rafters are on.
- Nail on the upper top plates (W13, W17): the end walls' plates run from the front wall to the outside of the back wall and lap over it; the back wall's plate fills in between.

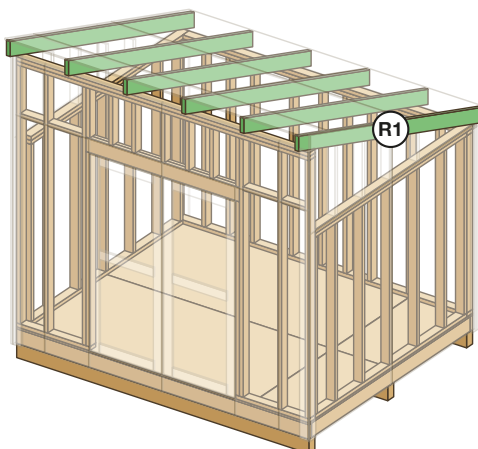


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

10 Set the rafters

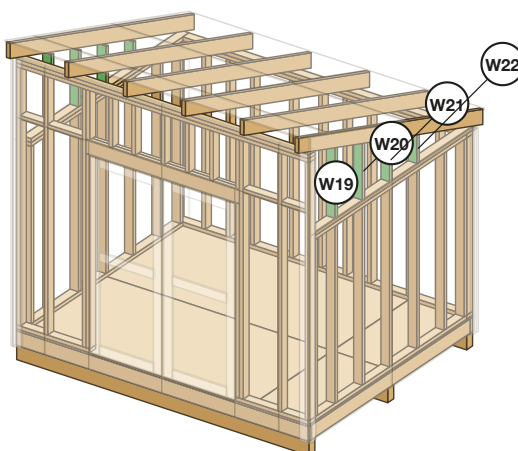
- Cut a pattern rafter (R1): 115-11/16" long point to long point, plumb cuts at 18.4 degrees at both ends (4 in 12). Test it on the walls, then cut the rest from it.
- Set 6 rafters centred at 3/4", 24-3/4", 48-3/4", 72-3/4", 96-3/4", 119-1/4" from the left end, 24" apart. Each rafter rests on the inside top edge of the front wall and the outside top edge of the back wall, and runs 6" past each wall (measured level).
- Fix every rafter to both top plates with a hurricane tie. The end rafters stand flush with the outside of the end walls.



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

11 Frame the rakes

- Fill the triangles above the end walls with rake studs (W19, W20, W21, W22), standing on the upper top plate under the end rafters, centred at 16", 32", 48", 64" from the front outside edge.
- Cut the top of each to the roof slope (4 in 12, 18.4 degrees) so it fits tight under the rafter.

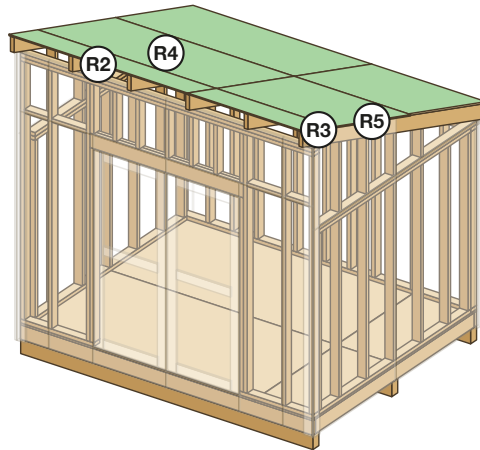


Green: parts added in this step. Faint outline: parts added later.

Build steps (continued)

12 Sheath the roof

- Nail the 1/2" plywood roof deck (R2, R3, R4, R5) to the rafters, starting with a full row at the low back edge and working up the slope. End joints land on the rafters at 73-3/8" from the left. Put H-clips on the joints between rafters.
- The deck runs flush with the outside of the end siding (5/8" past the end rafters). Nail every 6" at the edges and 12" in the field.



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

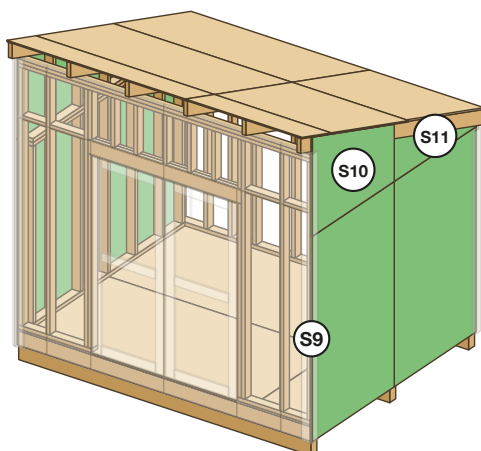
13 Roof it

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

Build steps (continued)

14 End siding

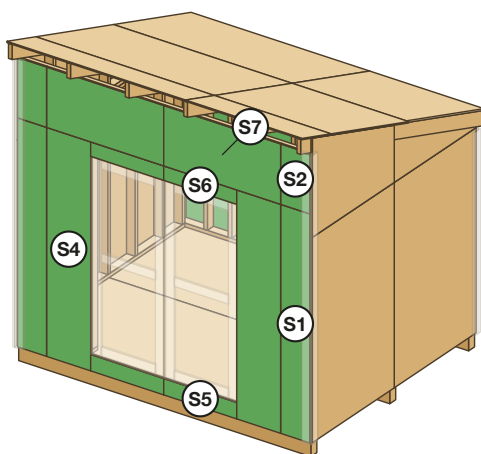
- Nail the lower T1-11 panels on both end walls from the bottom of the rim joist up to the top plates, grooves vertical, with joints on the studs at 48" from the front.
- Nail Z-flashing along the top of the lower panels, then cut the sloped upper pieces: the left and right pieces of each section nest on one sheet. Nail them from the flashing up to the underside of the roof deck, into the rake studs.



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

15 Front and back siding

- On the back wall the panels run from the bottom of the rim to the underside of the rafters, one sheet tall, with joints on the studs at 12", 60", 108" from the left.
- On the front wall, mark the door opening on the lower panels (60" wide, 75-1/2" high, from the floor) before you hang them, and cut it out with a circular saw and a jigsaw. Keep the cut-out pieces: they become the two door leaves (D1).
- Nail Z-flashing along the top of the lower front panels, then hang the upper strips from the flashing up to the rafters, with joints on the same studs and cripples.

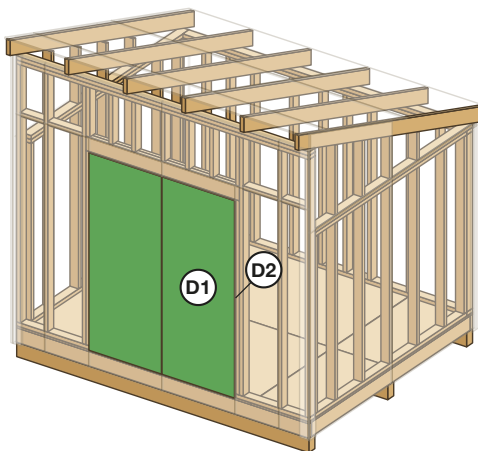


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Build steps (continued)

16 Build and hang the doors

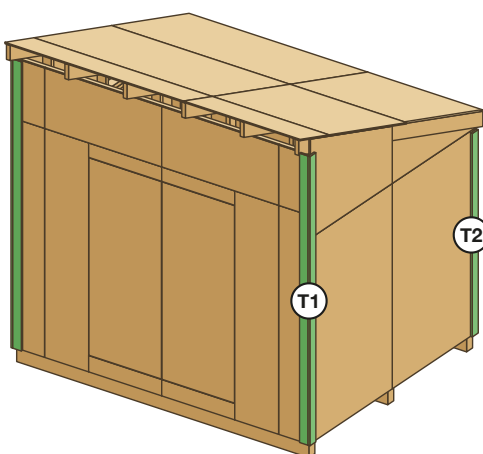
- Trim 1/8" off every edge of the door leaves (D1) so they swing clear. Screw the 1x4 battens (D2, D3) to the inside face of each leaf: a stile on each side and rails at the top, middle and bottom.
- Hang each leaf on 3 T-hinges screwed through the siding into the king and jack studs. Fit a handle and a hasp, and a cane bolt into the floor on the leaf that stays shut.



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

17 Corner boards

- Nail a 1x4 corner board (T1, T2) on each face of every corner, from the bottom of the siding up to the rafter tails. They cover the panel edges at the corners.
- Caulk the corner boards and around the doors.



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

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Full cut list table (part, qty, length, stock)	—	✓
Board-by-board cutting diagram for 8-16 ft stock	—	✓
Plywood and T1-11 sheet layouts (4x8)	—	✓
Shopping list: boards, sheets, shingles, waste %	—	✓
Nail, hardware and gravel quantities	—	✓
Tools list, finish guide, anchoring and setup	—	✓

Get the Premium plan — \$19.99

One-time purchase. Instant PDF download.

Need a different size?

We generate this shed in other sizes too, with every drawing, the cut list and the shopping list recalculated for the new size.

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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