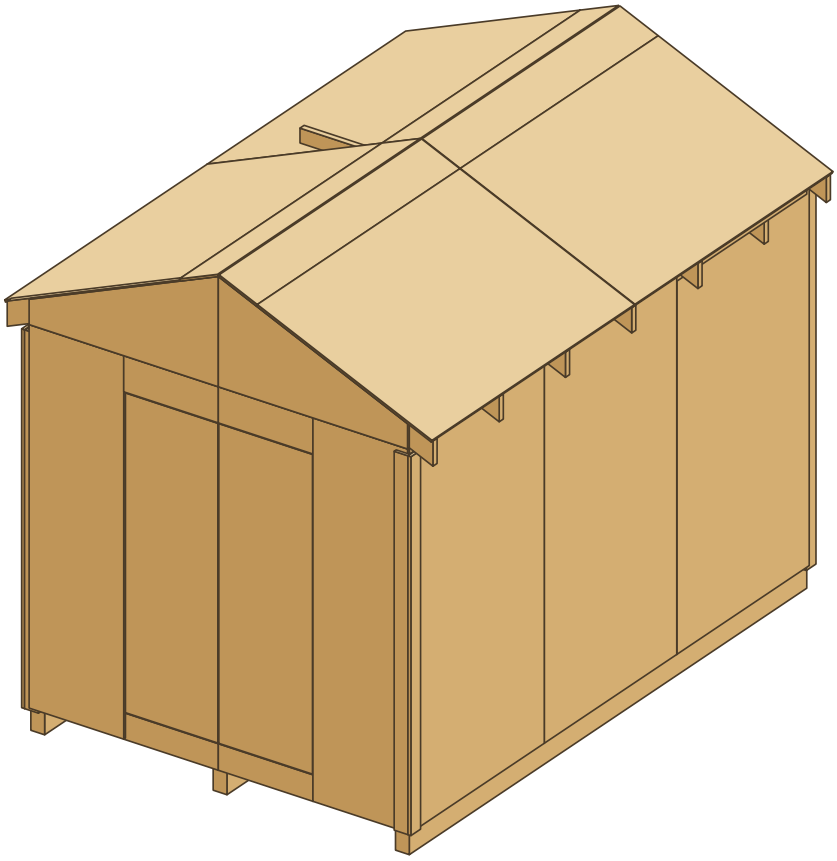
FREE PLAN

# 8' x 12' Storage Shed

Step-by-step build plan with dimensioned drawings



| | |
|---|---|
| Floor size | 8'-0" x 12'-0" (96 sq ft) |
| Overall | 9'-0" wide x 12'-2-3/4" deep x 10'-2-1/4" high |
| Walls | 84" framed, 2x4 studs at 16" centres |
| Roof | gable, 5 in 12, 2x6 rafters at 24" centres, 6" overhang |
| Door | double doors, 48" wide x 75-1/2" high opening |
| Foundation | 3 4x6 skids on concrete blocks over a gravel pad |
| Plan ID | SH-96x144 |

**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**

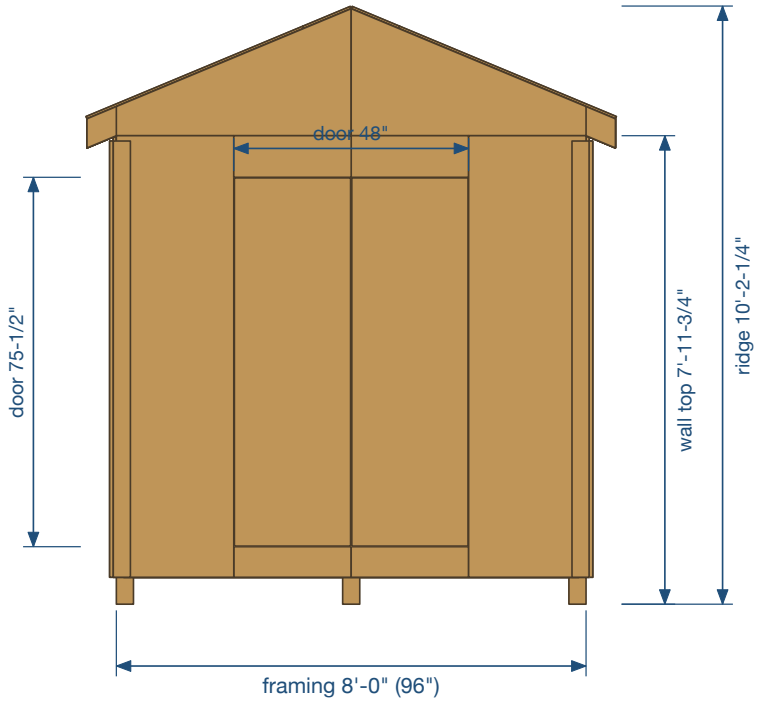
One-time purchase. Instant PDF download.

### Need a different size?

We generate this shed in other sizes too (8x8 up to 12x20), with every drawing, the cut list and the shopping list recalculated for the new size.

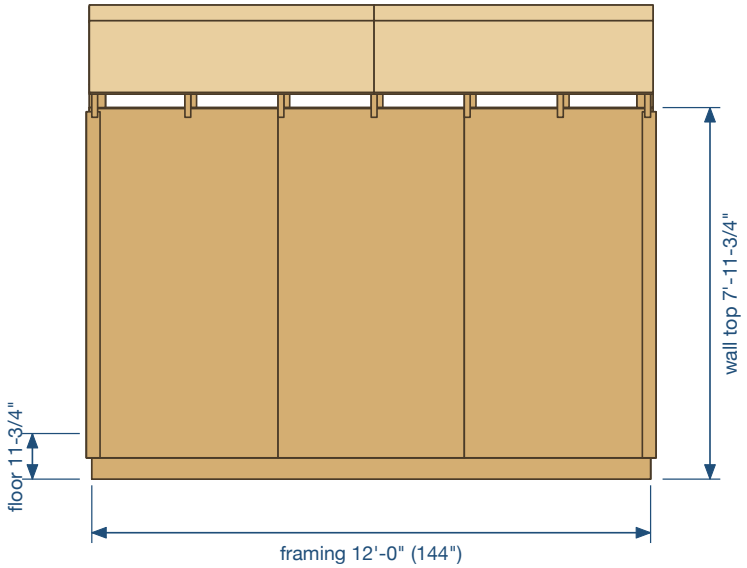
# Drawings · elevations

### FRONT ELEVATION (door end)




### RIGHT SIDE ELEVATION

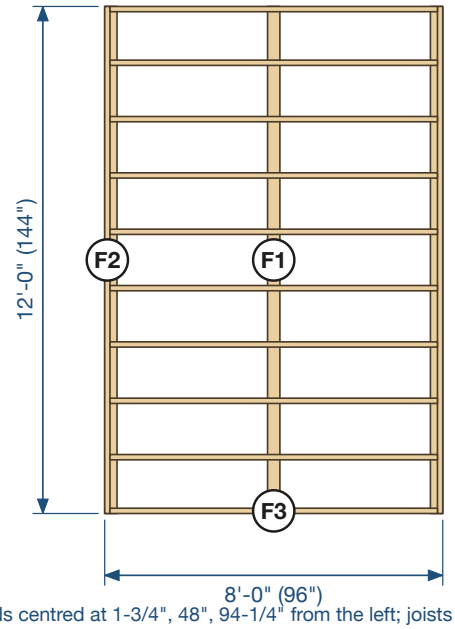
*gable roof 5 in 12*




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

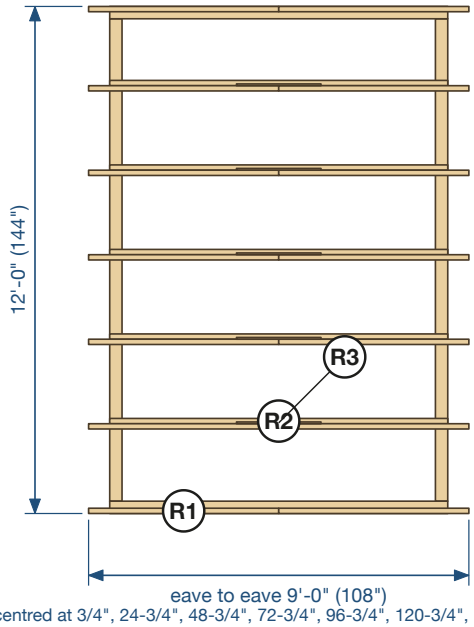
# Drawings · floor and roof framing

### FLOOR FRAMING PLAN (from above, floor removed)




skids centred at 1-3/4", 48", 94-1/4" from the left; joists at 16" centres

### ROOF FRAMING PLAN (from above, roof deck removed)

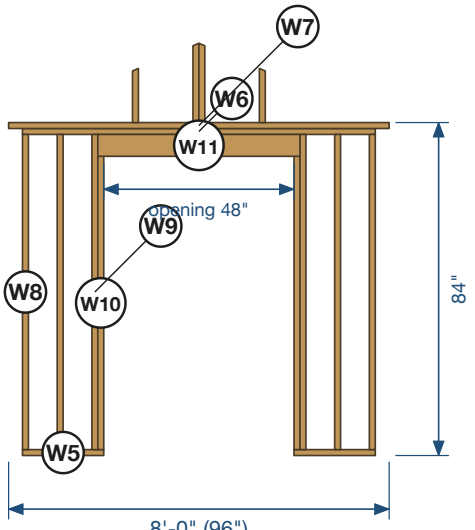



rafter pairs centred at 3/4", 24-3/4", 48-3/4", 72-3/4", 96-3/4", 120-3/4", 143-1/4" from the front

# Drawings · wall framing

### FRONT WALL AND GABLE FRAMING (seen from outside)

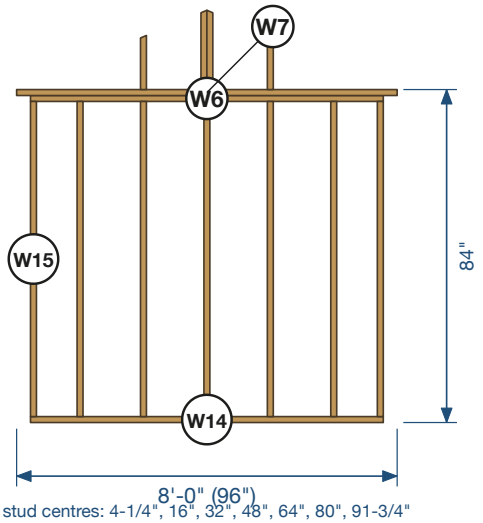
gable studs W12-W13: top cut to the roof slope, lengths in the cut list




stud centres: 4-1/4", 13", 21-3/4", 23-1/4", 72-3/4", 74-1/4", 83", 91-3/4"

### BACK WALL AND GABLE FRAMING (seen from outside)

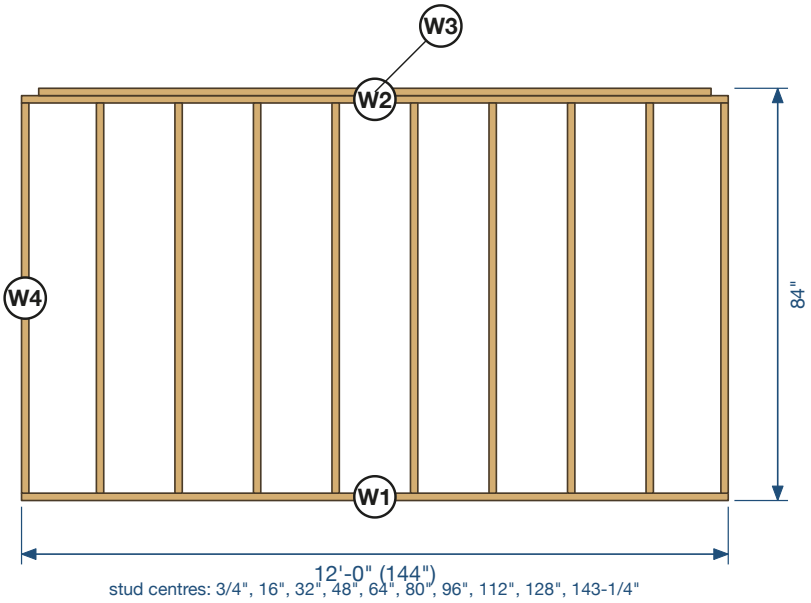
gable studs W12-W13: top cut to the roof slope, lengths in the cut list




stud centres: 4-1/4", 16", 32", 48", 64", 80", 91-3/4"

# Drawings · wall framing (continued)

**SIDE WALL FRAMING (seen from outside)**



## Part key

Every part has a code. The first letter is the assembly: F floor and skids, W walls and gables, 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** | Side wall bottom plate | 2x4 |
| **W2** | Side wall top plate | 2x4 |
| **W3** | Side wall upper top plate | 2x4 |
| **W4** | Side wall stud | 2x4 |
| **W5** | Front wall bottom plate | 2x4 |
| **W6** | Gable wall top plate | 2x4 |
| **W7** | Gable wall upper top plate | 2x4 |
| **W8** | Front wall stud | 2x4 |
| **W9** | King stud | 2x4 |
| **W10** | Jack stud | 2x4 |
| **W11** | Door header | 2x6 |
| **W12** | Gable stud | 2x4 |
| **W13** | Gable stud | 2x4 |
| **W14** | Back wall bottom plate | 2x4 |

| Part | Name | Stock |
|---|---|---|
| **W15** | Back wall stud | 2x4 |
| **R1** | Rafter | 2x6 |
| **R2** | Rafter tie | 2x4 |
| **R3** | Ridge gusset | 1/2" plywood |
| **R4** | Roof deck panel | 1/2" plywood |
| **R5** | Roof deck panel | 1/2" plywood |
| **R6** | Roof deck panel | 1/2" plywood |
| **R7** | Roof deck panel | 1/2" plywood |
| **S1** | Side siding panel | 5/8" T1-11 siding panel |
| **S2** | Front siding beside door | 5/8" T1-11 siding panel |
| **S3** | Front siding below door | 5/8" T1-11 siding panel |
| **S4** | Front siding above door | 5/8" T1-11 siding panel |
| **D1** | Door leaf | 5/8" T1-11 siding panel |
| **S5** | Gable siding | 5/8" T1-11 siding panel |
| **S6** | Back siding panel | 5/8" T1-11 siding panel |
| **D2** | Door stile | 1x4 |
| **D3** | Door rail | 1x4 |
| **T1** | Corner board, gable face | 1x4 |
| **T2** | Corner board, side face | 1x4 |

# Build steps

## 1 Prepare the site

- Pick a level, well-drained spot with room to swing the doors. Check local rules on setbacks and on sheds of this size (96 sq ft) before you start.
- Dig out a pad 1 ft bigger than the shed on every side (10'-0" x 14'-0"), lay landscape fabric and spread about 1.9 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.

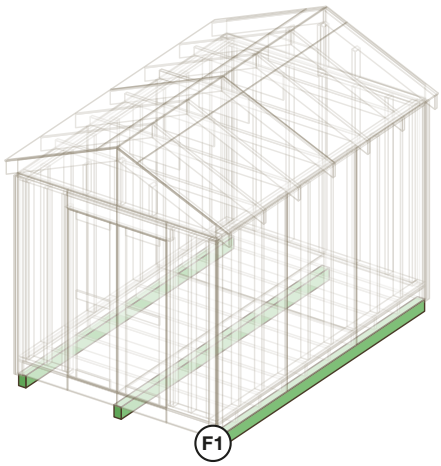
- 3 x skid (F1): 4x6, cut to 144" (ground-contact rated, on edge) (a full 12'-0" board)
- 2 x rim joist (F2): 2x6, cut to 144" (a full 12'-0" board)
- 10 x floor joist (F3): 2x6, cut to 93"
- 2 x side wall bottom plate (W1): 2x4, cut to 144" (a full 12'-0" board)
- 2 x side wall top plate (W2): 2x4, cut to 144" (a full 12'-0" board)
- 2 x side wall upper top plate (W3): 2x4, cut to 137"
- 20 x side wall stud (W4): 2x4, cut to 79-1/2"
- 2 x front wall bottom plate (W5): 2x4, cut to 20-1/2" (stops at the door opening)
- 2 x gable wall top plate (W6): 2x4, cut to 89"
- 2 x gable wall upper top plate (W7): 2x4, cut to 96" (laps over the side walls) (a full 8'-0" board)
- 4 x front wall stud (W8): 2x4, cut to 79-1/2"
- 2 x king stud (W9): 2x4, cut to 79-1/2"
- 2 x jack stud (W10): 2x4, cut to 74"
- 2 x door header (W11): 2x6, cut to 51" (2 plies, on edge)
- 4 x gable stud (W12): 2x4, cut to 13-5/8" (top cut at 5 in 12)
- 4 x gable stud (W13): 2x4, cut to 20" (top cut at 5 in 12)
- 1 x back wall bottom plate (W14): 2x4, cut to 89"
- 7 x back wall stud (W15): 2x4, cut to 79-1/2"
- 14 x rafter (R1): 2x6, cut to 60-13/16" (plumb cut both ends, 5 in 12)
- 5 x rafter tie (R2): 2x4, cut to 96" (on edge, beside the rafters) (a full 8'-0" board)
- 4 x door stile (D2): 1x4, cut to 74-3/4"
- 6 x door rail (D3): 1x4, cut to 16-1/4"
- 4 x corner board, gable face (T1): 1x4, cut to 89-3/16"
- 4 x corner board, side face (T2): 1x4, cut to 89-3/16"

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

# Build steps (continued)

## 3 Lay the skids

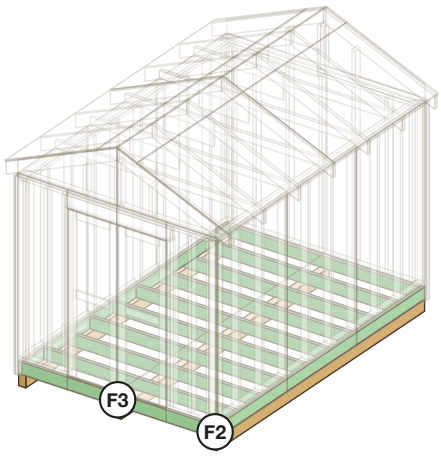
- Lay the 3 skids (F1) on edge on the blocks, running front to back, with their centres at 1-3/4", 48", 94-1/4" from the left edge. The outside faces of the outer skids line up with the outside of the floor frame.
- Check that the skids are level along their length and with each other, and that the diagonals 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 two rim joists (F2) on edge, 96" apart outside to outside.
- Fit the floor joists (F3) between them: one flush with each end and the rest centred at 16", 32", 48", 64", 80", 96", 112", 128" from the front.
- Nail through the rims into each joist end with 3 16d nails. Check that both diagonals read 14'-5-1/16".
- Set the frame on the skids, square it, and toe-nail each joist to every skid it crosses.

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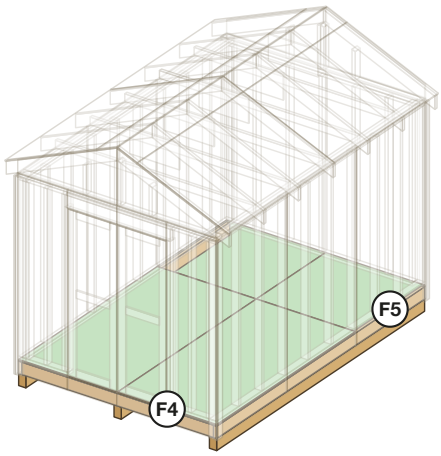
# Build steps (continued)

## 5 Lay the floor

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

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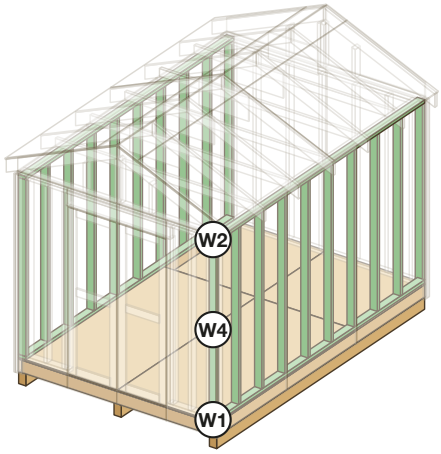
## 6 Frame the side walls

- The side walls run the full 12'-0" depth. Each has a bottom plate, a top plate and an upper top plate (W1, W2, W3).
- Studs (W4, 79-1/2" long) are centred at 3/4", 16", 32", 48", 64", 80", 96", 112", 128", 143-1/4" from the front end.
- Leave the upper top plate off for now: it goes on after the walls are standing. It stops 3-1/2" short of each end so the gable walls' upper plates lap over it.
- Nail through the plates into each stud end with 2 16d nails.

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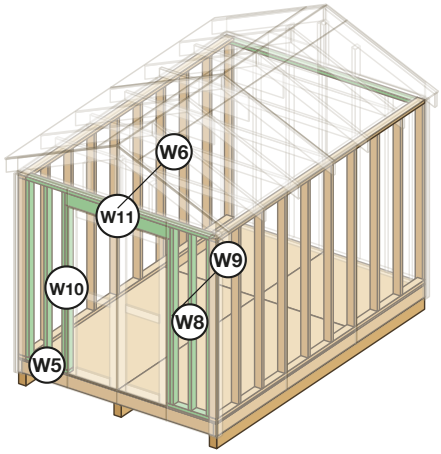
# Build steps (continued)

## 7 Frame the front wall

- The front wall fits between the side walls (89" long). Lay out the bottom plate and top plate (W5, W6).
- Door rough opening: 48" wide, from 24" to 72" measured from the left outside edge of the shed, and 75-1/2" high from the floor.
- Each side of the opening gets a king stud (W9) and a jack stud (W10). The doubled 2x6 header (W11) sits on the jacks, tight under the top plate.
- Other studs (W8) are centred at 4-1/4", 13", 83", 91-3/4" from the left outside edge.
- 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.

## 8 Frame the back wall

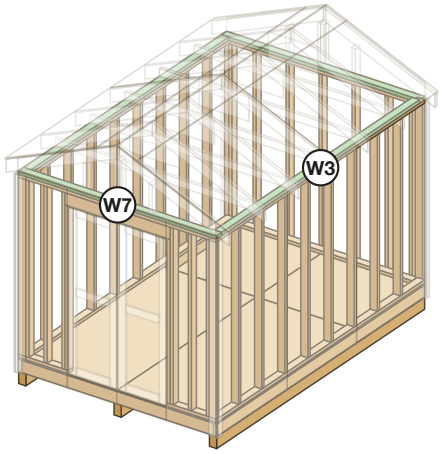
- The back wall is the same length with no opening. Studs (W15) are centred at 4-1/4", 16", 32", 48", 64", 80", 91-3/4" from the left outside edge.
- Nail through the plates into each stud end with 2 16d nails.

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

# Build steps (continued)

## 9 Raise the walls

- Stand the side walls first, flush with the outside of the floor, then the front and back 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 the corner studs together every 16".
- Plumb each wall with a level and brace it with a temporary diagonal board.
- Nail on the upper top plates (W3, W7): the front and back ones run the full 8'-0" and lap over the side walls; the side ones fill in between. Nail them down every 16".

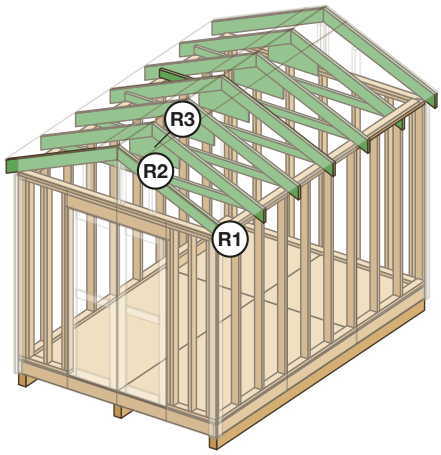



Green: parts added in this step. Faint outline: parts added later.

# Build steps (continued)

## 10 Set the rafters

- Cut a pattern rafter (R1): 60-13/16" long point to long point, plumb cuts at 22.6 degrees at both ends (5 in 12). Test it on the walls, then cut the rest from it.
- Set the rafters in pairs that butt at the ridge, 7 pairs centred at 3/4", 24-3/4", 48-3/4", 72-3/4", 96-3/4", 120-3/4", 143-1/4" from the front. Each rafter sits on the outer top edge of the side wall and overhangs 6" (measured level).
- Nail a 1/2" plywood gusset (R3) across the ridge joint of every inside pair, and a rafter tie (R2) across the shed beside each inside pair, on top of the wall plates. Nail each tie to both rafters with 3 16d nails.
- Fix every rafter to the top plate with a hurricane tie. The end pairs stand flush with the outside of the front and back walls.

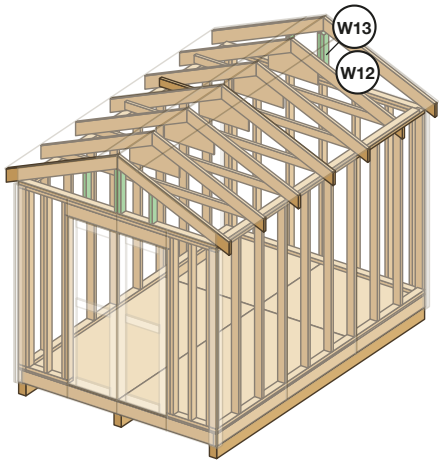



Green: parts added in this step. Faint outline: parts added later.

# Build steps (continued)

## 11 Frame the gables

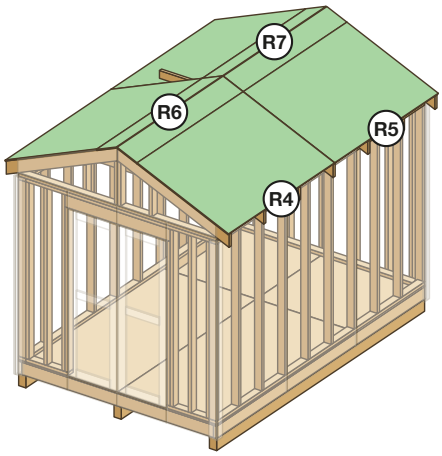
- Fill the triangles above the front and back walls with gable studs (W12, W13), standing on the upper top plate under the end rafters, centred at 32", 47-1/4", 48-3/4", 64" from the left outside edge.
- Cut the top of each to the roof slope (5 in 12, 22.6 degrees) so it fits tight under the rafter. The two centre studs meet under the ridge and back the gable siding joint.




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

## 12 Sheath the roof

- Nail the 1/2" plywood roof deck (R4, R5, R6, R7) to the rafters, starting with a full row at the eave. The end joints land on rafters at 73-3/8" from the front; put H-clips on the joints between rafters.
- The deck runs flush with the outside of the gable siding (5/8" past the end rafters) and covers the rafter tails. Nail every 6" at the edges and 12" in the field.




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

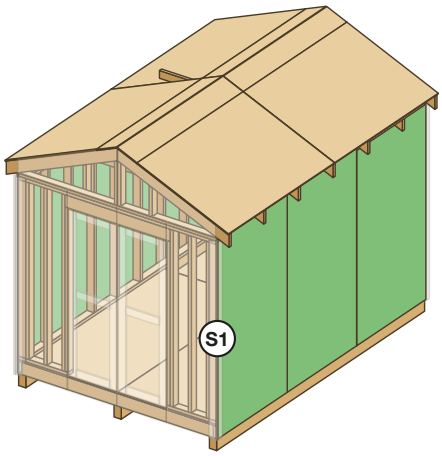
# Build steps (continued)

## 13 Roof it

- Nail drip edge along the eaves, lay the underlayment from the bottom up with 2" laps, then drip edge on the rakes over the underlayment.
- Shingle from the eave up, following the shingle maker's instructions for 5 in 12 (about 4 bundles). Finish the ridge with ridge cap shingles.

## 14 Side siding

- Nail the T1-11 panels (S1) on both side walls, grooves vertical, from the bottom of the rim joist up to the top plate. Panel joints land on the studs at 48", 96".
- Leave a 1/8" gap at every joint. Nail every 6" at the edges and every 12" into the studs.

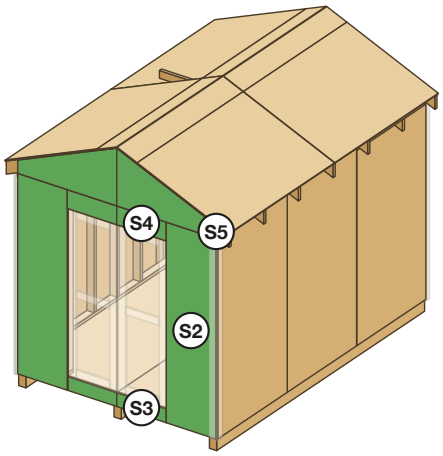



Green: parts added in this step. Faint outline: parts added later.

# Build steps (continued)

## 15 Front, back and gable siding

- On the front and back walls the panels run from the bottom of the rim up to the top plate, with joints on the studs at 48".
- Before you hang the front panels, mark the door opening on them (48" wide, 75-1/2" high, from the floor) 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 panels, then cut the gable pieces: the two halves of each gable nest on one sheet. Nail them from the flashing up to the underside of the roof deck.

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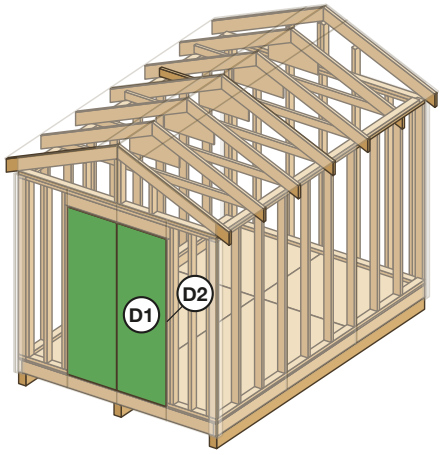
## 16 Build and hang the doors

- 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.

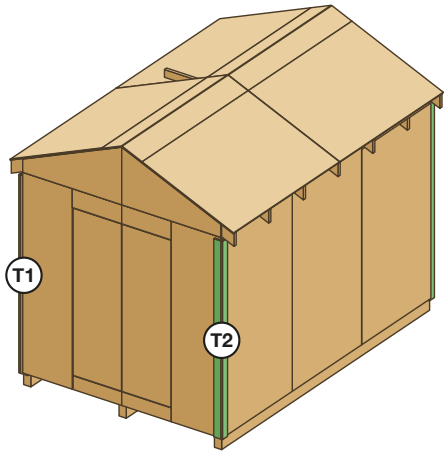



Green: parts added in this step. Faint outline: parts added later or drawn see-through.

# Build steps (continued)

## 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 eave. They cover the panel edges at the corners.
- Caulk the corner boards and around the door trim.

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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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