



## 4'x8' Chicken Coop Plan

up to 10 chickens



## Compare Free vs. Premium plan

	Free plan	Premium edition
Pages	22	68
Illustrations for Each Step	✓	✓
Print Ready	✓	✓
Step By Step Instructions	✓	✓
Full Materials and Cuttings List	✗	✓
Additional Illustrations	✗	✓
Additional Blueprints	✗	✓
Tools List	✗	✓
Fastening Elements List	✗	✓
Technical Support	✗	✓

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# 4'x8' chicken coop material list

## Site Preparation

- Concrete
- Bricks

## Bottom Frame

- Pressure-Treated Lumber
- Plywood

## Walls Frames

- Pressure-Treated Lumber

## Shed's Roof

- Pressure-Treated Lumber
- Pressure-Treated Board
- Plywood
- Building paper
- Asphalt shingles
- Metal drip edge

## Front/Side Shed's Window

- Pressure-Treated Lumber
- Window beading
- Glass

## Walls Exterior Siding

- Pressure-Treated Lumber
- Wood siding boards

## Top Frame

- Pressure-Treated Lumber

## Fasteners & Hardware

- Corner braces
- Galvanized nails
- Wood screws

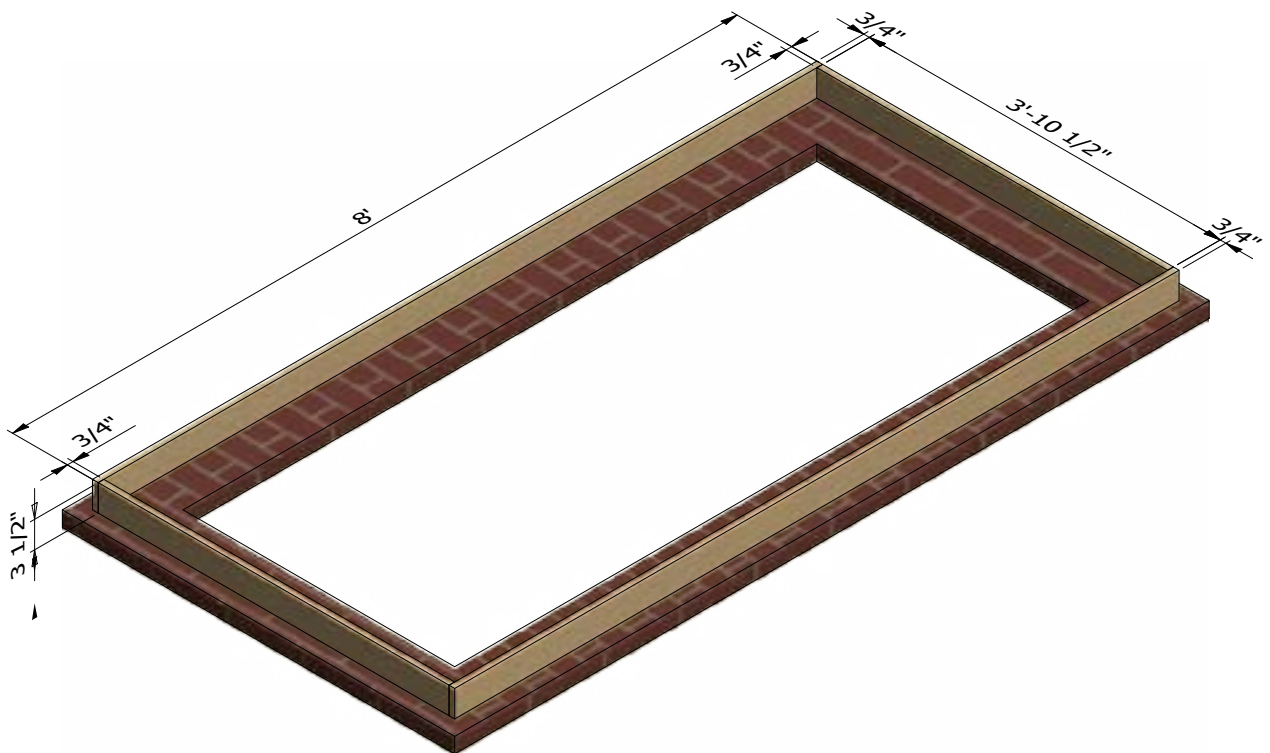
## STEP 1

### Framing the Bottom Rails

**1.1** Assemble the frame using  $\frac{3}{4}$ " x  $3\frac{1}{2}$ " pressure-treated lumber. You will need two boards cut to 3'-10  $\frac{1}{2}$ " that will be the rim joist and two boards cut to 8' that will be the joist.

**1.2** Secure the beams with 3" wood screws.

**1.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.



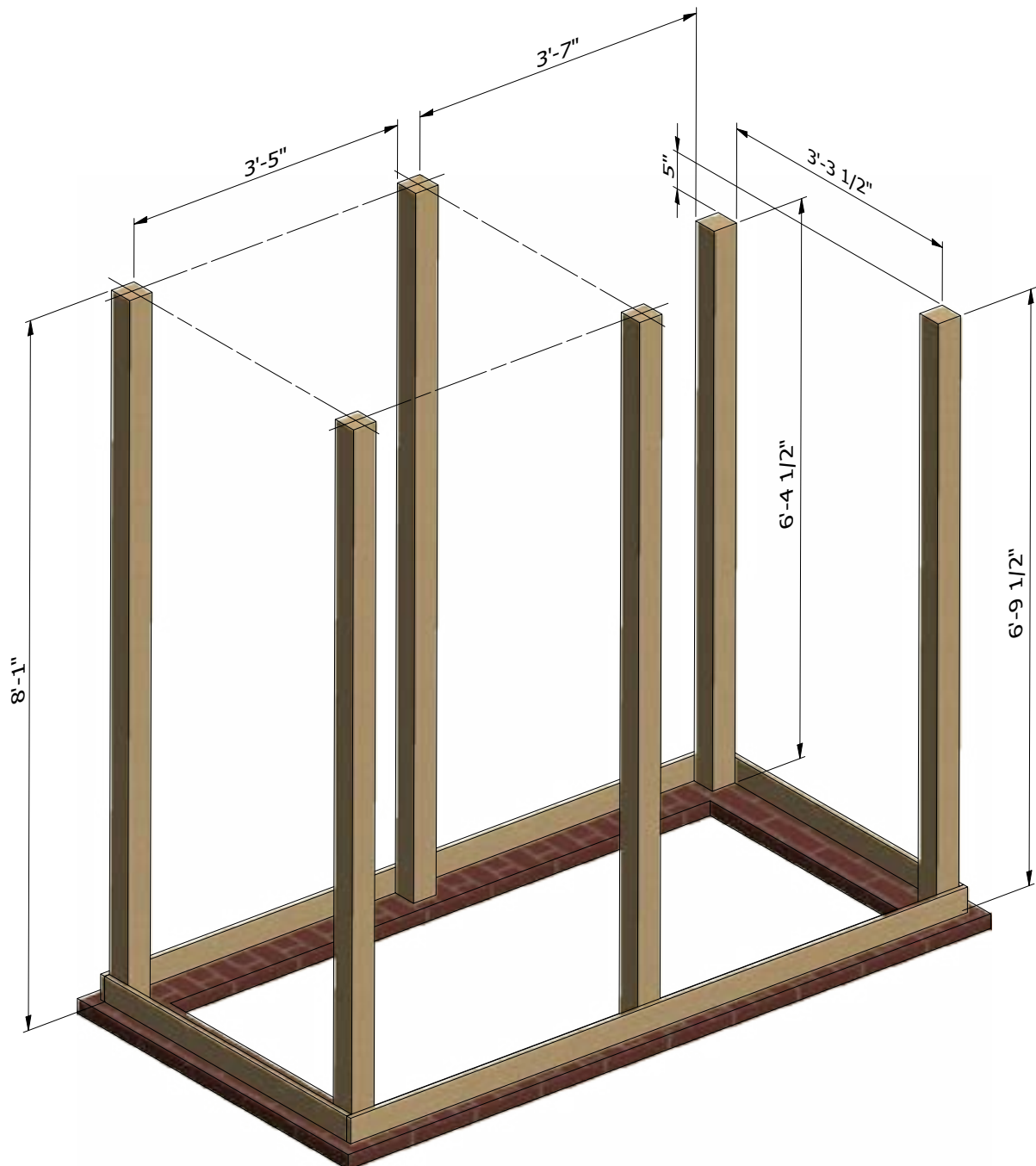
## STEP 2

### Assemble the Wall Studs

**2.1** Using 3 1/2" x 3 1/2" pressure-treated lumber, install the wall studs using the drawing below as a reference. You will need four boards cut to 8'-1", one board cut to 6'-4 1/2" and one board cut to 6'-9 1/2".

**2.2** Secure the beams to the bottom rails with 3" wood screws.

**2.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.



## STEP 3

### Assemble The Top Plates

**3.1** Assemble the top plates using 3 1/2" x 3 1/2" pressure-treated material. You will need two boards cut to 3'-5" and two boards cut to 3'-3 1/2".

**3.2** Connect the beams with 5" wood screws.

**3.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.





## STEP 4

### Assemble The Floor Frame

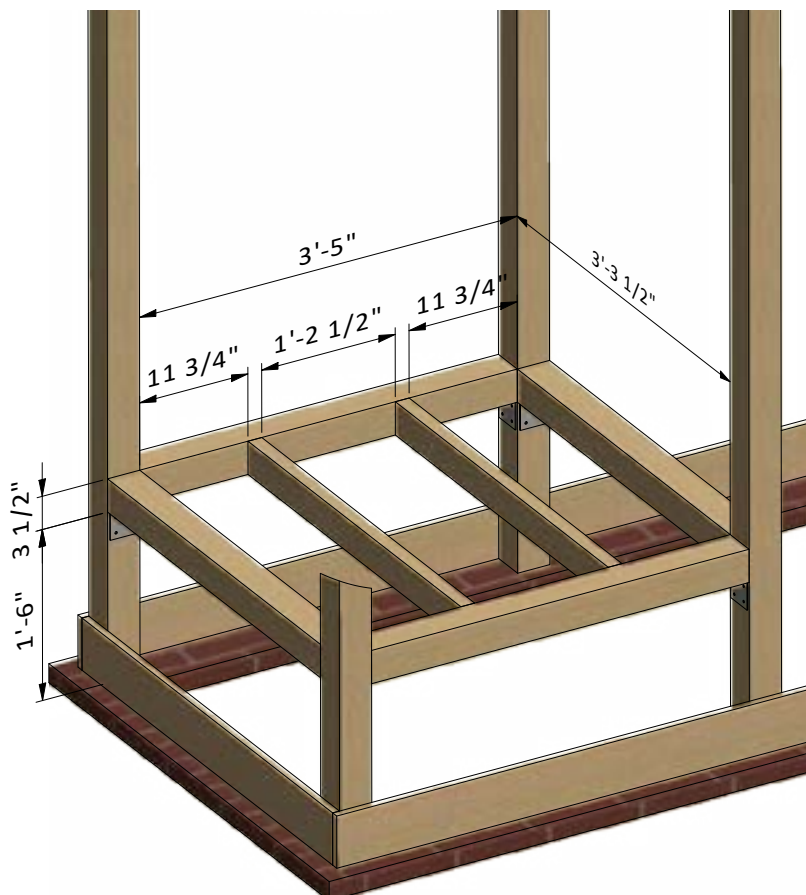
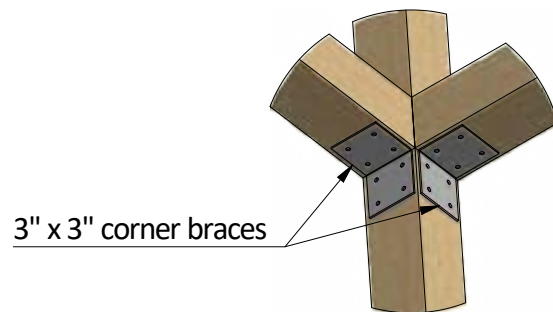
**4.1** Using 3 1/2" x 3 1/2" pressure-treated material, cut four joist and assemble using the illustrations below as a reference. You will need two boards cut to 3'-5" and two boards cut to 3'-3 1/2".

**4.2** Using 1 1/2" x 3 1/2" pressure-treated material, cut two rim joists using the illustration below as a reference. You will need two boards cut to 3'-3 1/2".

**4.3** Connect the beams with 5" wood screws.

**4.4** Use 3" x 3" corner braces and 1" wood screws to secure the corners.

**4.5** Using a speed square or carpenter's square, check the corners to make sure they are 90°.



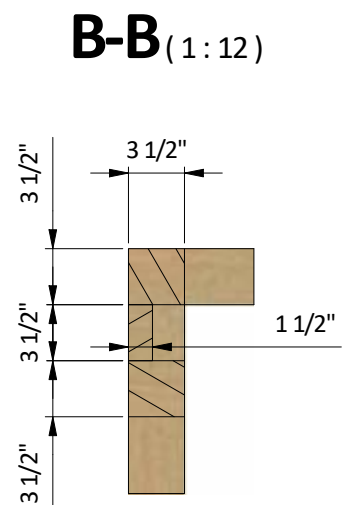
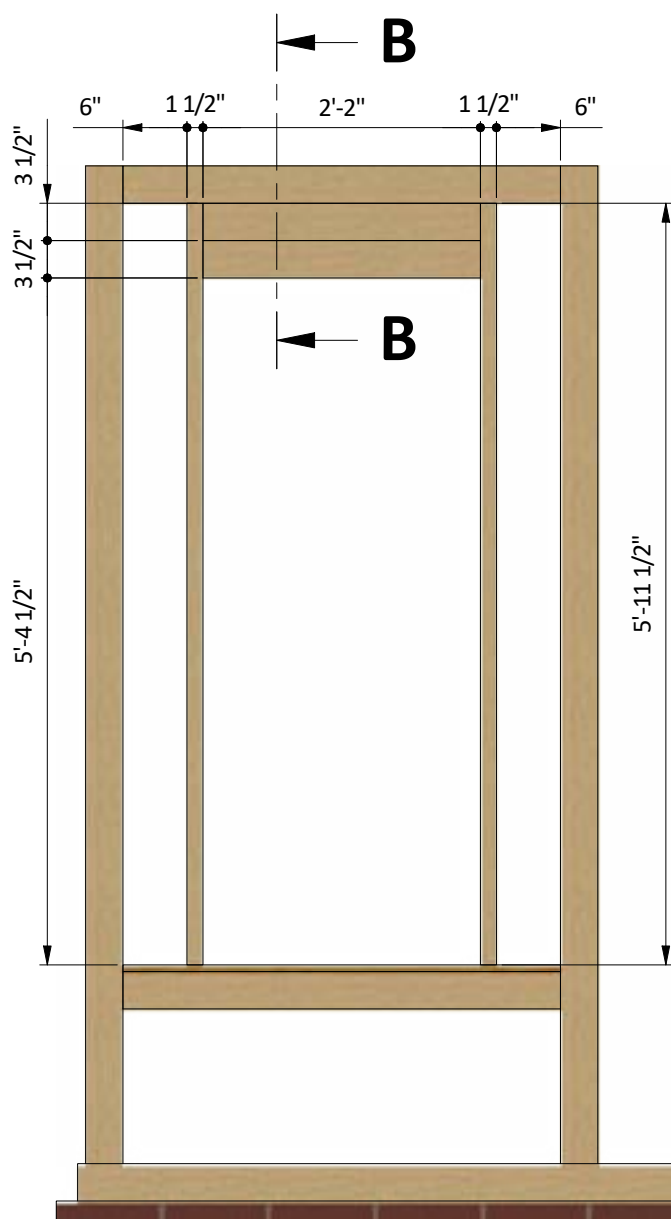
## STEP 5

## Assemble Front Wall Frame

**5.1** Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct front wall frame using the drawing below as a reference. You will need two boards cut to 5'-11 1/2" that will be studs and two boards cut to 2'-2" that will be door headers.

## 5.2 Connect the beams with 3" and 5" wood screws.

**5.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.





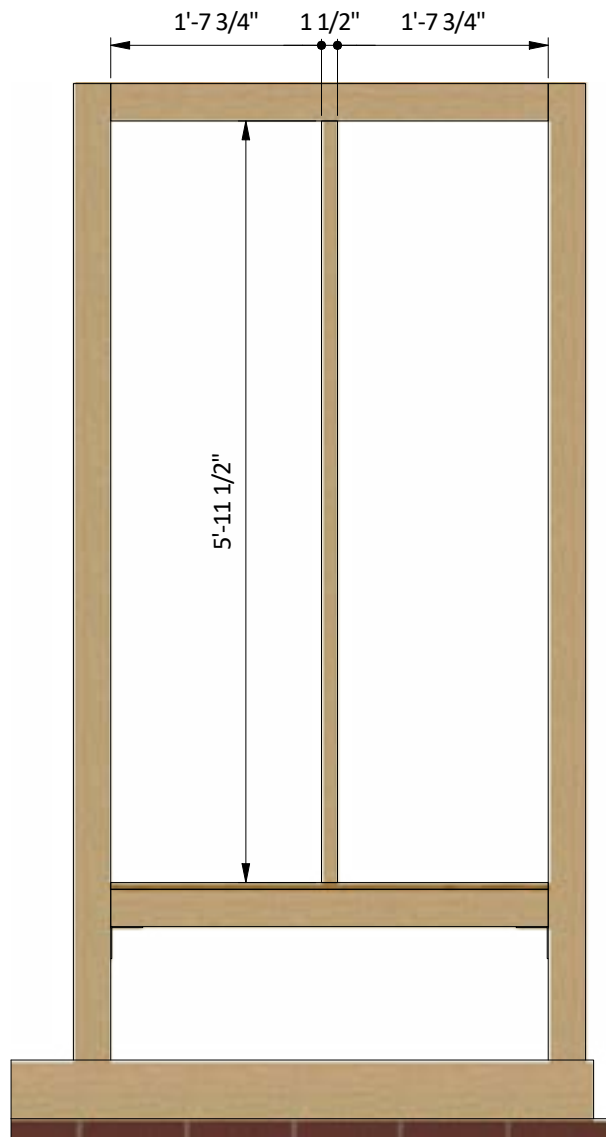
## STEP 6

### Assemble Back Side Wall Frame

**6.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, construct back side wall frame using the drawing below as a reference. You will need one board cut to 5'-11 1/2" that will be stud.

**6.2** Connect the beams with 2x3" wood screws.

**6.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.



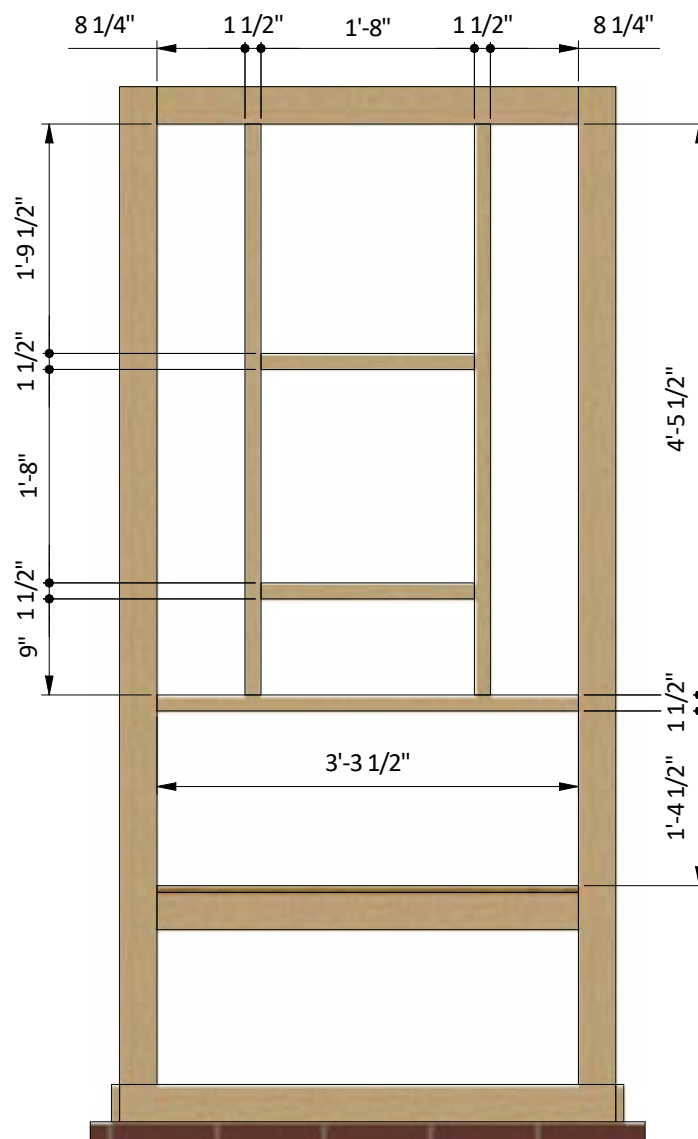
## STEP 7

### Assemble Left Side Wall Frame

**7.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, construct left side wall frame using the drawing below as a reference. You will need two boards cut to 4'-5 1/2" that will be studs, two boards cut to 1'-8" that will be the window header and rough sill and one board cut to 3'-3 1/2" that will be bottom plate.

**7.2** Connect the beams with 3" and 5" wood screws.

**7.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.



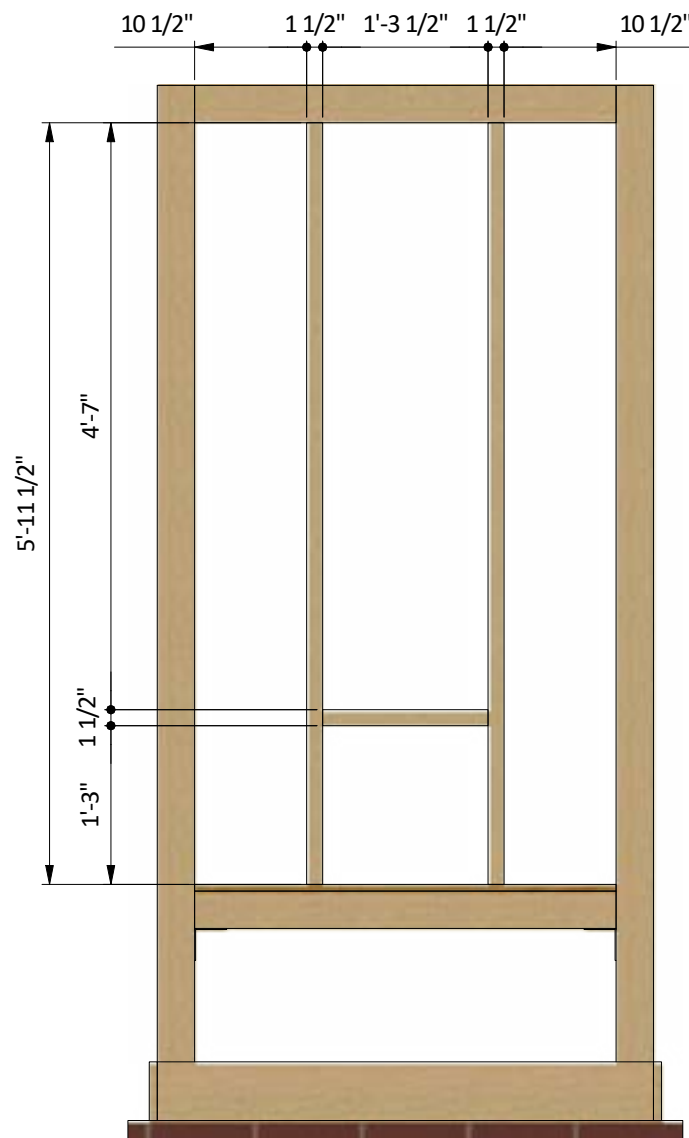
## STEP 8

### Assemble Right Side Wall Frame

**8.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, construct right side wall frame using the drawing below as a reference. You will need two boards cut to 5'-11 1/2" that will be studs and one board cut to 1'-3 1/2" that will be the door header.

**8.2** Connect the beams with 3" and 5" wood screws.

**8.3** Using a speed square or carpenter's square, check the corners to make sure they are 90°.



## STEP 9

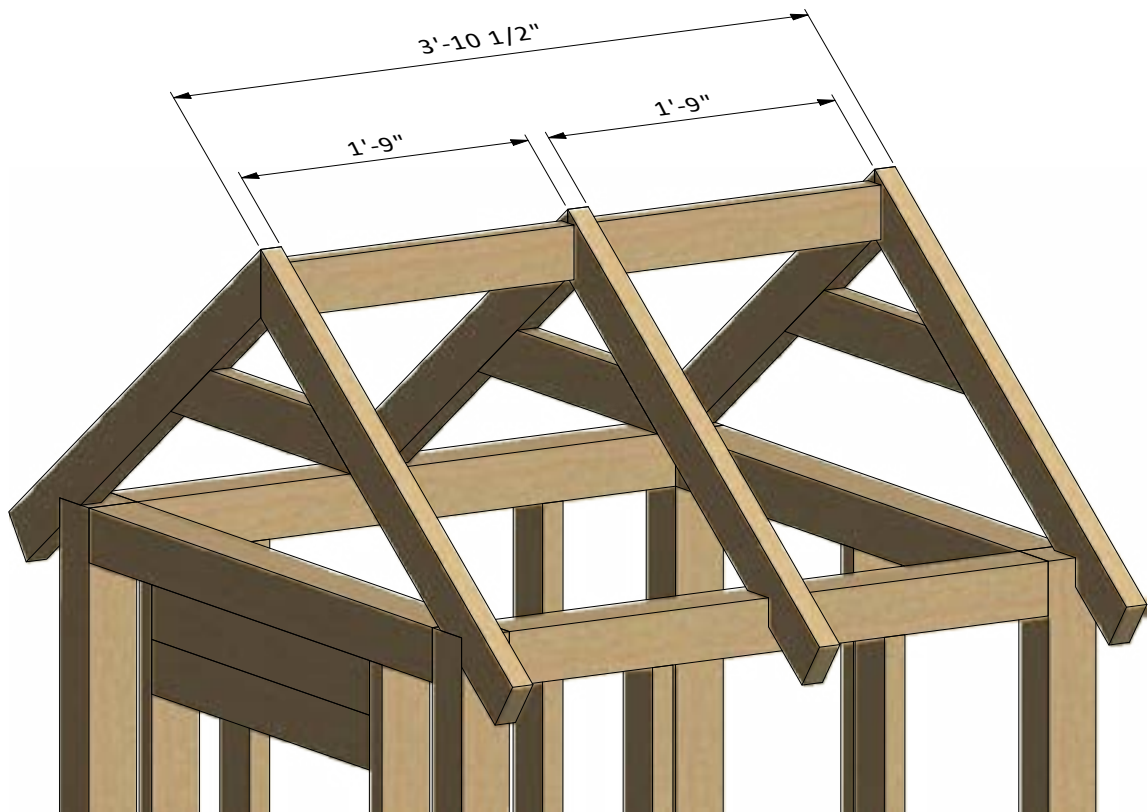
### Assemble the Roof Frame

**9.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, cut six rafters 3'-1 1/2" long according to the dimensions in drawings below.

**9.2** Using 1 1/2" x 3 1/2" pressure-treated lumber, cut three collar ties 1'-9 1/2" long according to the dimensions in drawings below.

**9.3** Using 1 1/2" x 3 1/2" pressure-treated board, cut two boards 1'-9" long that will be ridge boards according the illustration below.

**9.4** Connect the beams with 3" wood screws.



## STEP 10

### Assemble and Install Front Door

**10.1** Build the door frame using 3/4" x 3 1/2" pressure-treated lumber and secure with 5" wood screws. You will need two boards cut to 4'-9" that will be the vertical girts, two boards cut to 2'-1 1/2" that will be the horizontal girts, and one board cut to 4'-11 3/4" that will be cross brace.

**10.2** Prepare the 5/8" plywood sheet with dimensions 2'-1 1/2" x 5'-4" for the door according to the drawing.

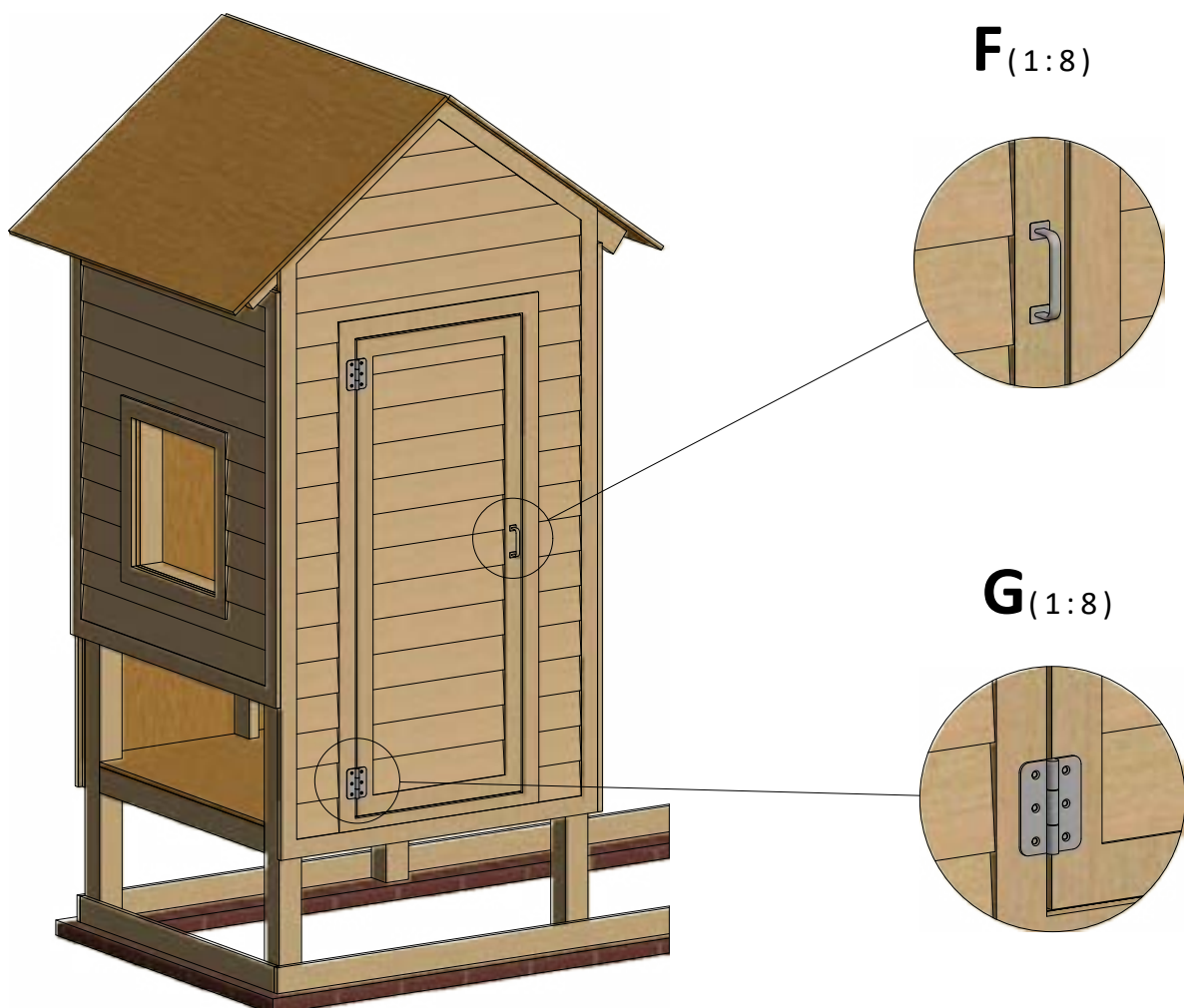
**10.3** Use 3/4" x 2 1/2" pressure-treated lumber for the door trim and fasten with 2" wood screws. You will need two boards cut to 2'-1 1/2" and two boards cut to 4'-11".

**10.4** Using 1/4" x 3/4" pressure-treated lumber, cut and install a starter course 1'-8 1/2" long.

**10.5** For the exterior siding on the door, use 1/2" x 6" wood siding boards and the illustration below as a reference.

**10.6** Assemble siding shields with 2" galvanized nails.

**10.7** Install two 3" door hinges using 6x1" wood screws. Finish the doors installation by attaching 6" door pull (see nodes **F**, **G**).

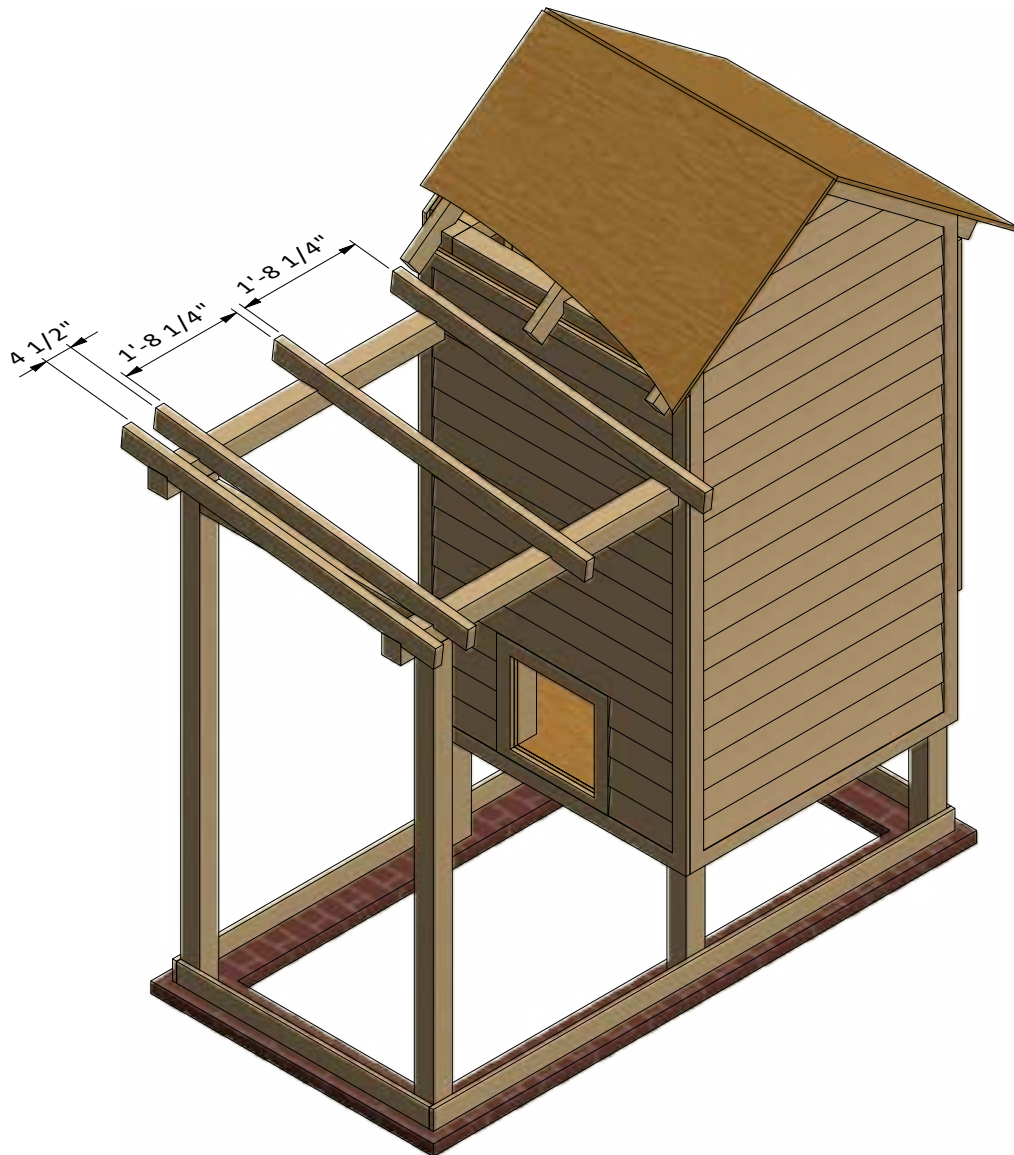


## STEP 11

### Assemble the Aviary Roof Frame

**11.1** Using 1 1/2" x 3 1/2" pressure-treated lumber, cut four rafters 4'-10" long according to the dimensions in drawings below. Cut the recesses for connection with top plates.

**11.2** Connect the beams with 5" wood screws.



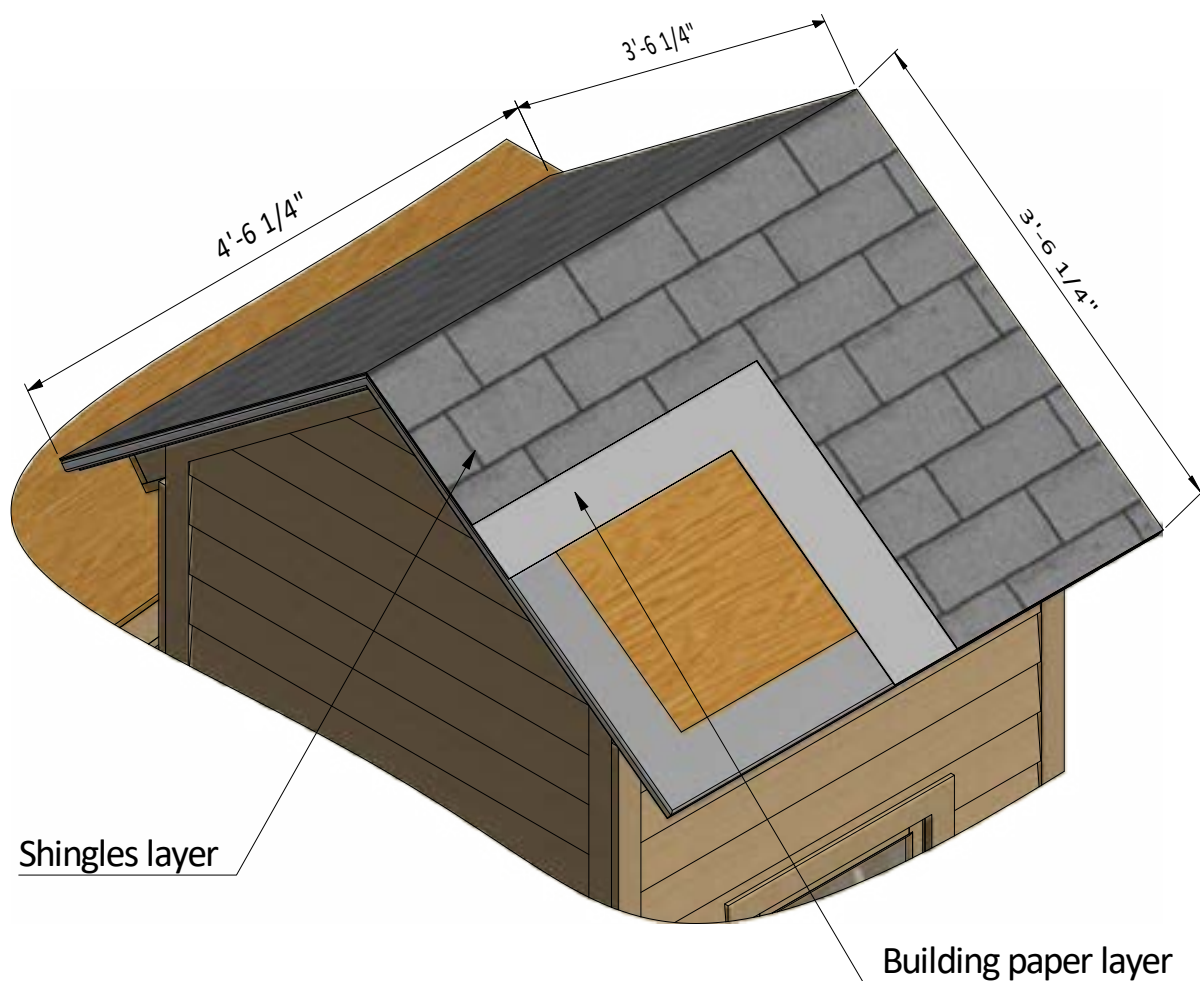
## STEP 12

### Coop's Roof Sheathing Installation

**12.1** You will need 26 Sq Ft of building paper and asphalt shingle roofing.

**12.2** Cover the plywood and drip edge with building paper. Try to install sheets with 1" overlapping. Use 2" nails to secure the sheets.

**12.3** Install asphalt shingle roofing using an industrial stapler.





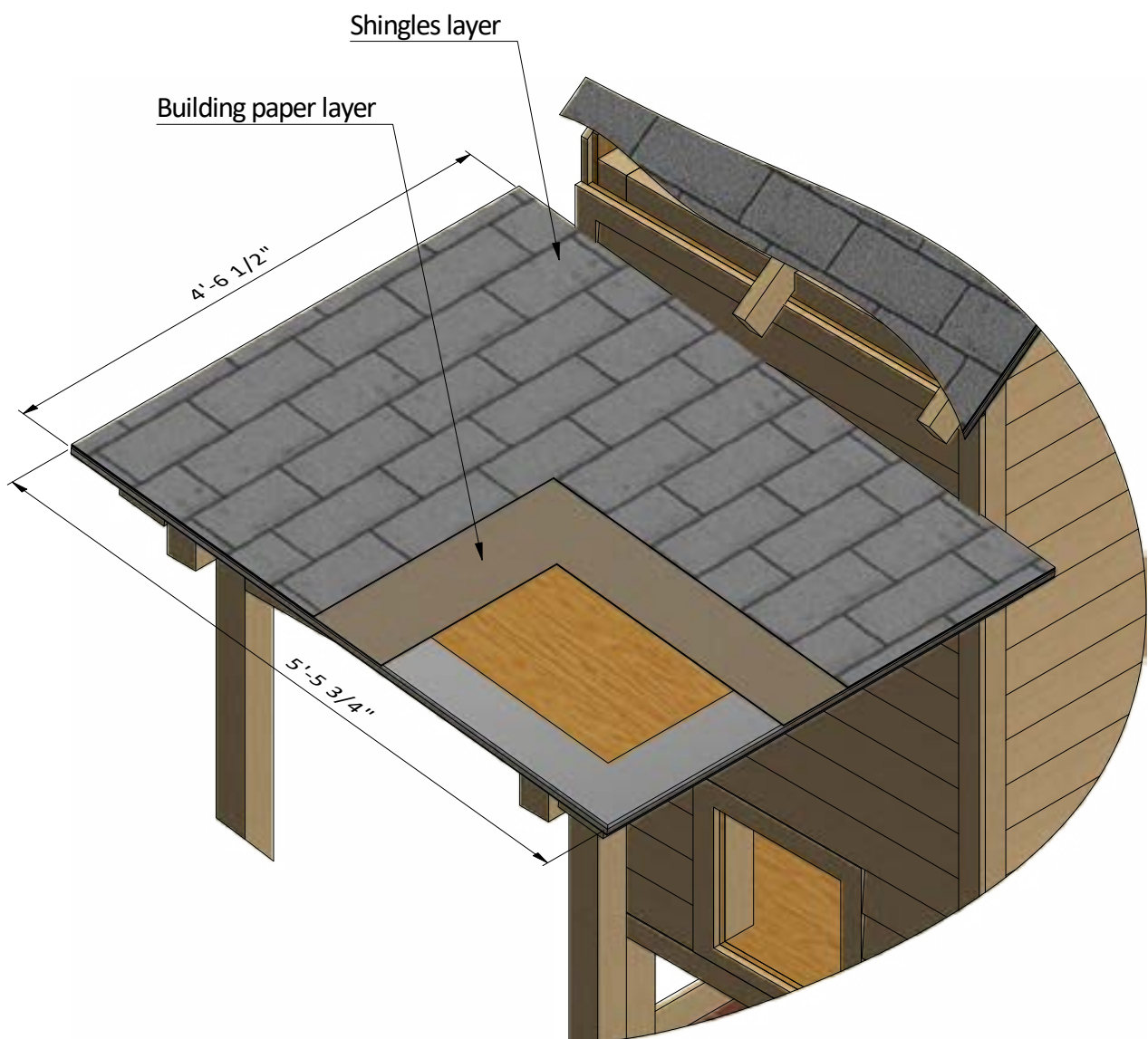
## STEP 13

# Aviary's Roof Sheathing Installation

**13.1** You will need 25 Sq Ft of building paper and asphalt shingle roofing.

**13.2** Cover the plywood and drip edge with building paper. Try to install sheets with 1" overlapping. Use 2" nails to secure the sheets.

**13.3** Install asphalt shingle roofing using an industrial stapler.



## STEP 14

### Nesting Box Assembly

**14.1** Using 1 1/2" x 2 1/2" and 2 1/2" x 2 1/2" material, assemble the frame for the nesting box using the illustration below as a guide. You will need four boards cut to 3'-7 1/2", four boards cut to 1'-7", two boards cut to 1'-7 3/4", two boards cut to 1'-8 3/4" that will be horizontal girts, two boards cut to 1'-10" that will be cross braces, two boards cut to 1'-8" and two boards cut to 1'-4 1/2" that will be studs. Make sure to provide 9 degree slope for the roof of the nesting box.

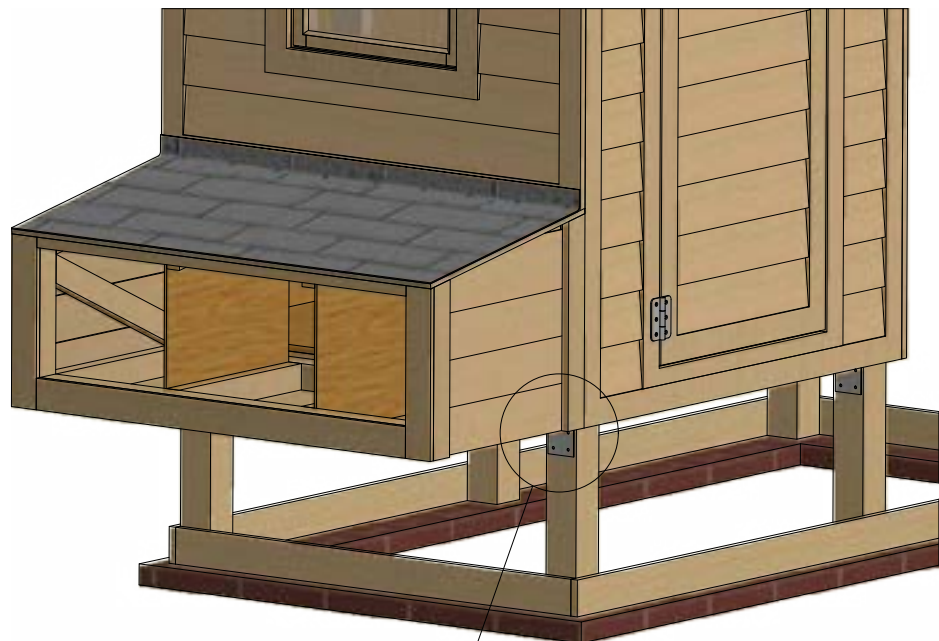
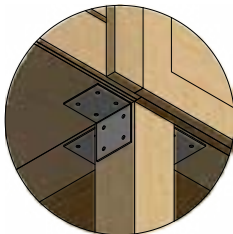
**14.2** Cover the top and bottom of the nesting box with 5/8" plywood and secure with 2" wood screws. You will need one 2'-1/4" x 4'-1 1/4" sheet and one 2' x 3'-10 1/2" sheet.

**14.3** Using 1/4" x 3/4" pressure-treated lumber, cut and install two starter courses 2' long. Prepare the 1/2" x 6" wood siding boards in the required amount according to the drawing. Assemble siding shields with 2" galvanized nails to the frame beams from both sides.

**14.4** Use 3/4" x 1", 3/4" x 2 1/2" and 3/4" x 3" pressure-treated lumber to cut and install the wall trims. Use the illustration below as a reference. You will need two boards cut to 1'-8 1/2", two boards cut to 1'-5", two boards cut to 1'-4 1/2" and two boards cut to 3'-7 1/2".

**14.5** Cut sheets of 5/8" plywood for the inner partitions using the drawing below as a guide. You will need two 1'-7" x 1'-7 1/2" sheets.

**M**(1 : 12)

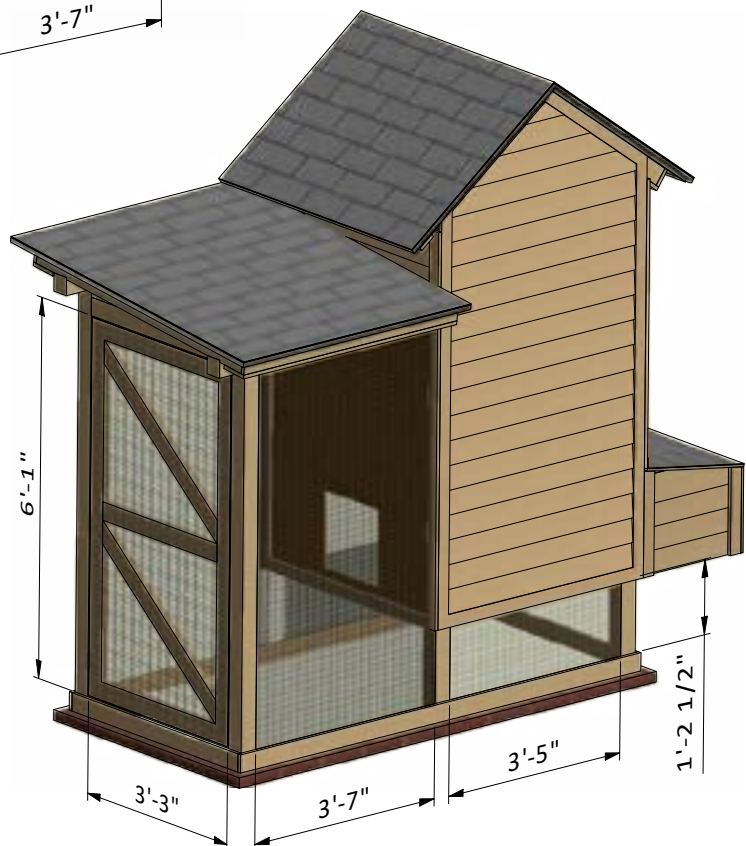
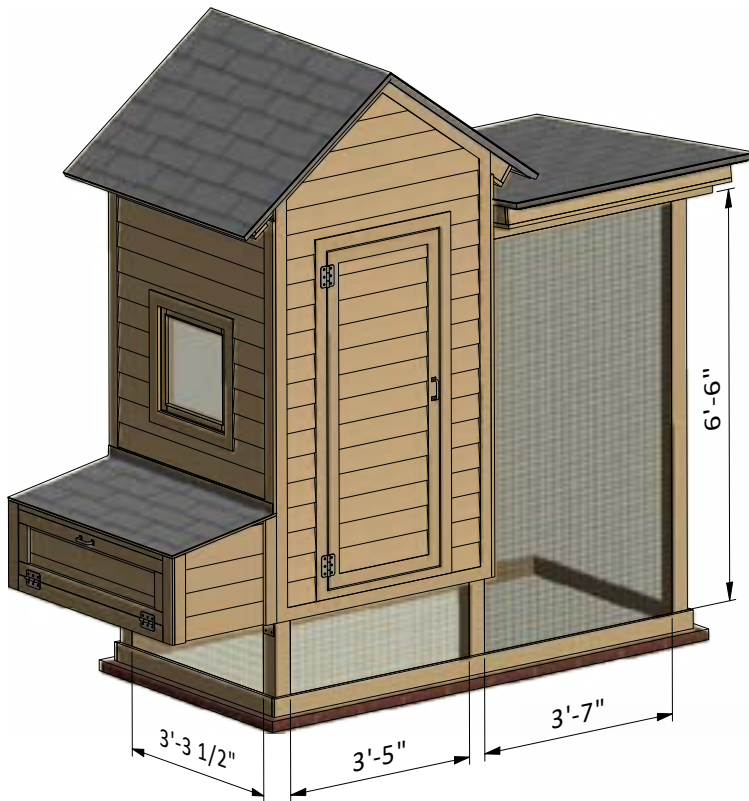


**M**

## STEP 15

### Mesh Wall Installation

15.1 Cover the walls with 1/4" wire mesh with the help of industrial stapler. You will need 80 sq ft.



## STEP 16

### Assemble The Roost

**16.1** Assemble the roost using 1 1/2" x 1 1/2" and 1 1/2" x 2 1/2" pressure-treated material. You will need two boards cut to 3'-8 1/2" and four boards cut to 3'-3 3/4".

**16.2** Connect the beams with 2" wood screws.

**16.3** Install the roost at the studs with the help of 3" screws.





## STEP 17

### Final touches

Now that your chicken coop is all done, you are ready to decorate it any way you want using your favorite paint, stain, or preservative.





## Compare Free vs. Premium plan

	Free plan	Premium edition
Pages	22	68
Illustrations for Each Step	✓	✓
Print Ready	✓	✓
Step By Step Instructions	✓	✓
Full Materials and Cuttings List	✗	✓
Additional Illustrations	✗	✓
Additional Blueprints	✗	✓
Tools List	✗	✓
Fastening Elements List	✗	✓
Technical Support	✗	✓

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