EASY COOPS

STEP BY STEP

8'x16' Chicken Coop Plan

Up to 20 chickens

Compare Free vs. Premium plan

	Free plan	Premium edition
Pages	21	54
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	✗	✓

TRY PREMIUM

8'x16' 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

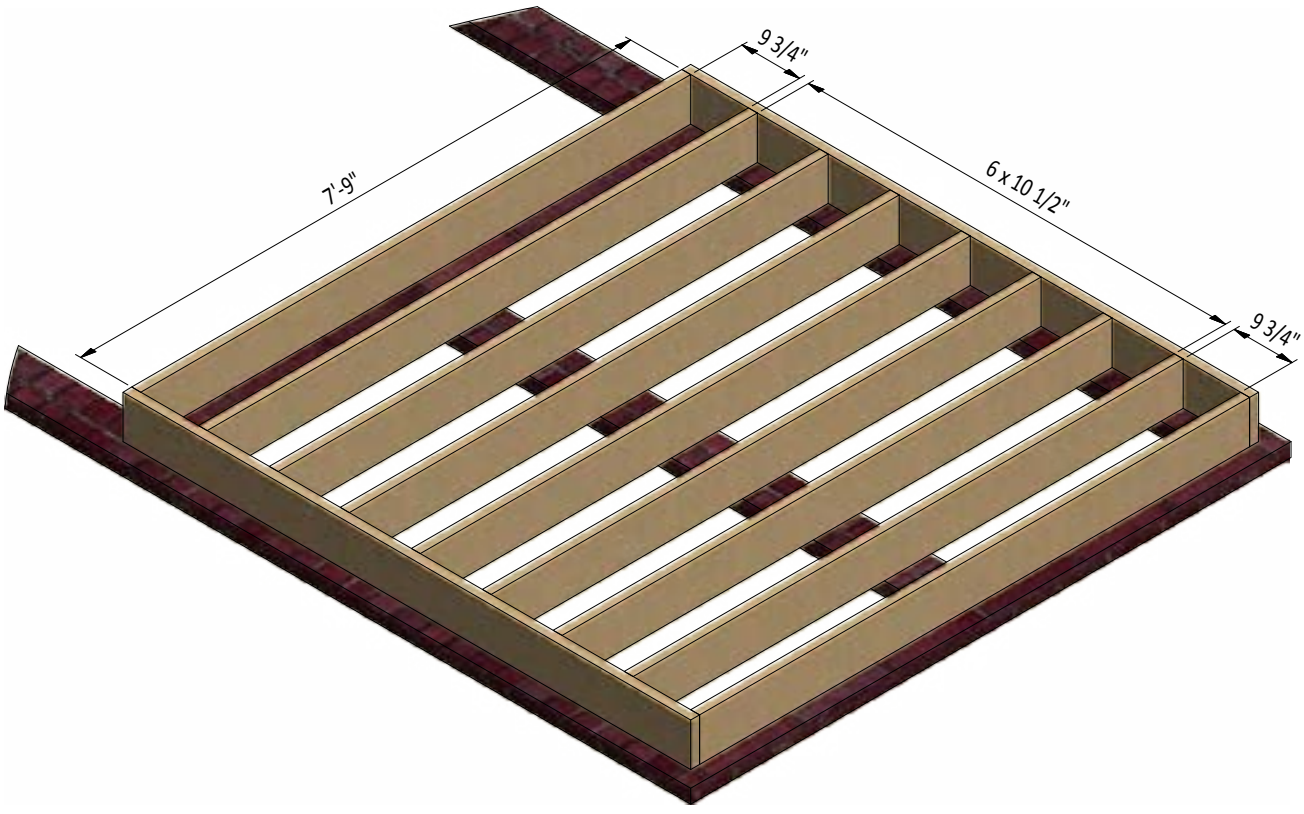
STEP 1

Framing the Coop's Floor

1.1 Assemble the frame using 1 1/2" x 7 1/4" pressure-treated lumber.
You will need seven boards cut to 7'-9" that will be the joist.

1.2 Secure the beams with 8x5" wood screws.

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



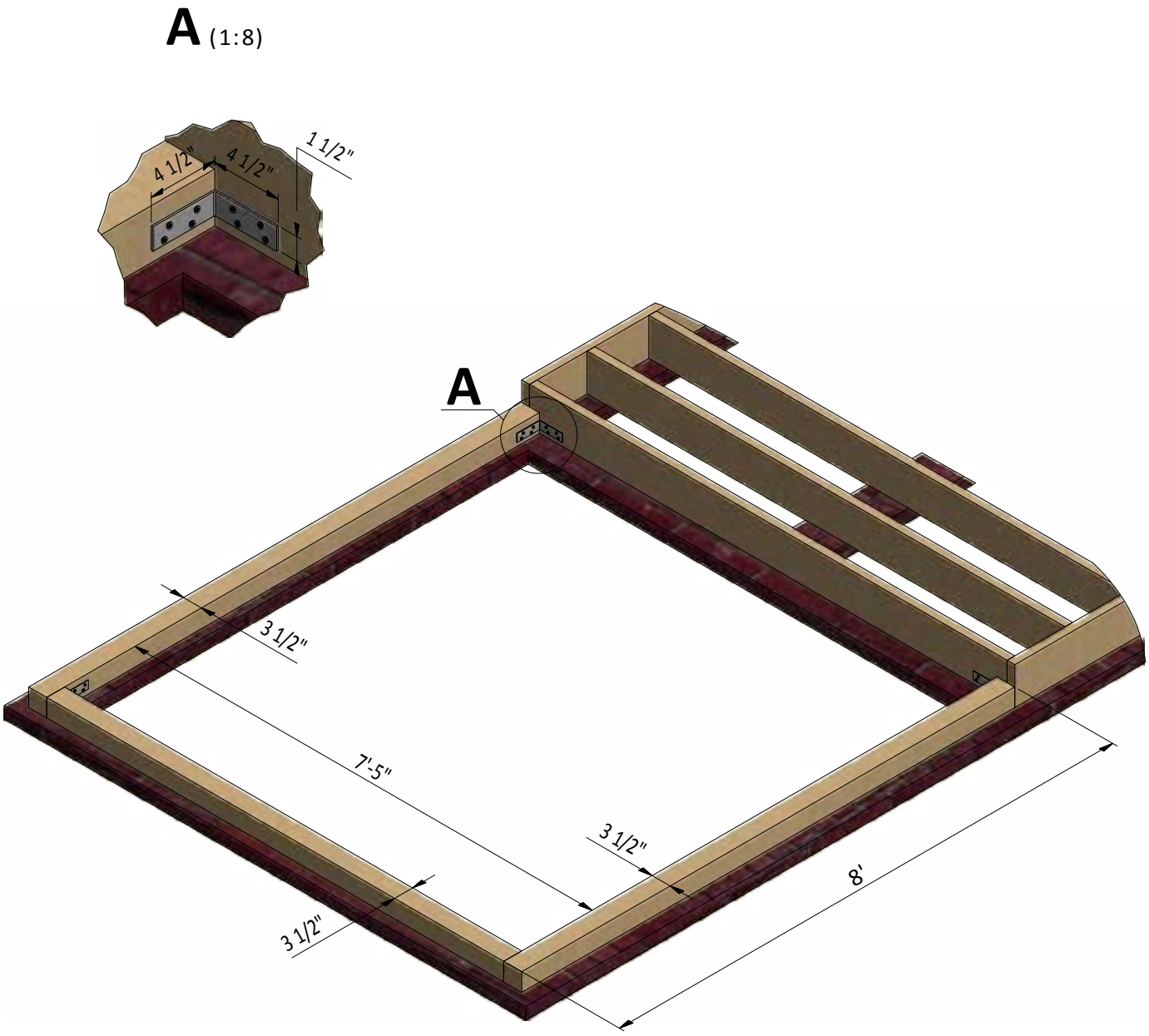
STEP 2

Assemble the Aviary's Bottom Frame

2.1 Using 3 1/2" x 3 1/2" pressure-treated lumber, construct bottom frame using the drawing below as a reference. You will need two boards cut to 8' that will be the rim joist and one board cut to 7'-5" that will be the joist.

2.2 Use four 4 1/2" x 4 1/2" x 1/2" corner braces and 8x1" wood screws to secure the corners (node A). Connect the beams with and 2x5" wood screws.

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



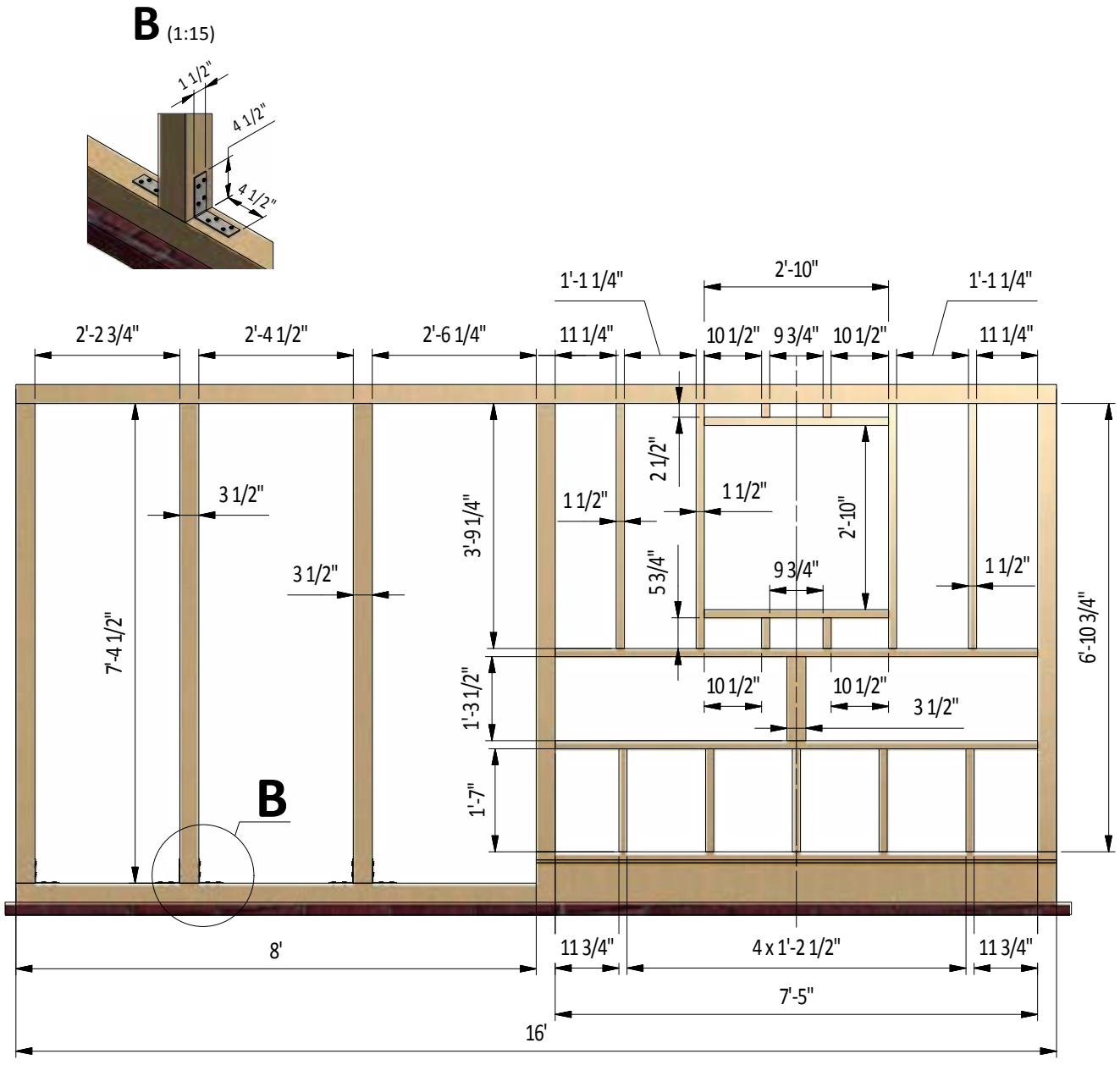
STEP 3

Assemble Front Wall Frame

3.1 Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct wall frame using the drawing below as a reference. You will need three boards cut to 7'-4 1/2" and two boards cut to 6'-10 3/4" that will be the studs, two boards cut to 2 1/2" that will be cripple studs, two boards cut to 2'-10" that will be the window header and rough sill, four boards cut to 3'-9 1/4", two boards cut to 5 3/4", one board cut to 1'-3 1/2", five boards cut to 1'-7" that will be the studs, two boards cut to 7'-5" that will be the horizontal girts and one board cut to 16' that will be top beam.

3.2 Connect the beams with 3" and 5" wood screws.
Use five 4 1/2" x 4 1/2" x 1/2" corner braces and 8x1" wood screws to secure the studs (node B).

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



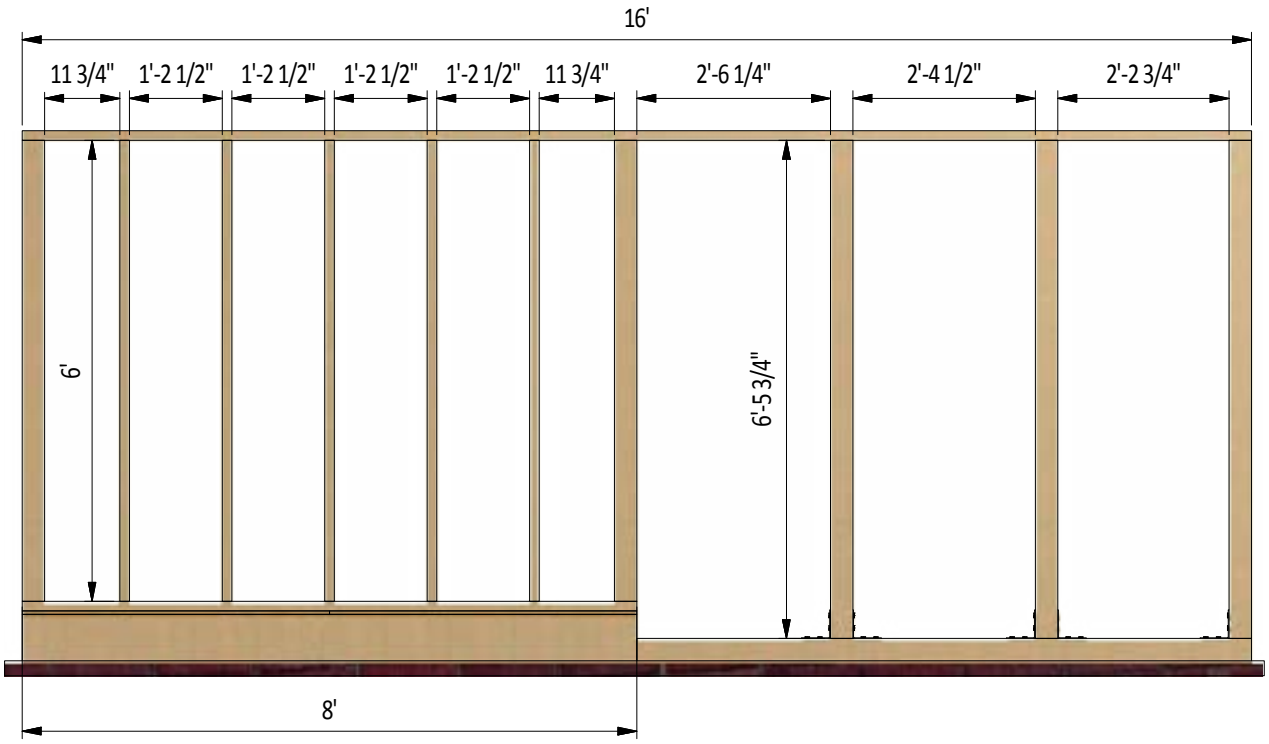
STEP 4

Assemble Back Wall Frame

4.1 Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct wall frame using the drawing below as a reference. You will need three boards cut to 6'-5 3/4" and seven boards cut to 6' that will be the studs, one board cut to 8' that will be the bottom plate and one board cut to 16' that will be top plate.

4.2 Connect the beams with 3" and 5" wood screws. Use five 4 1/2" x 4 1/2" x 1/2" corner braces and 8x1" wood screws to secure the studs (node B on page 19).

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



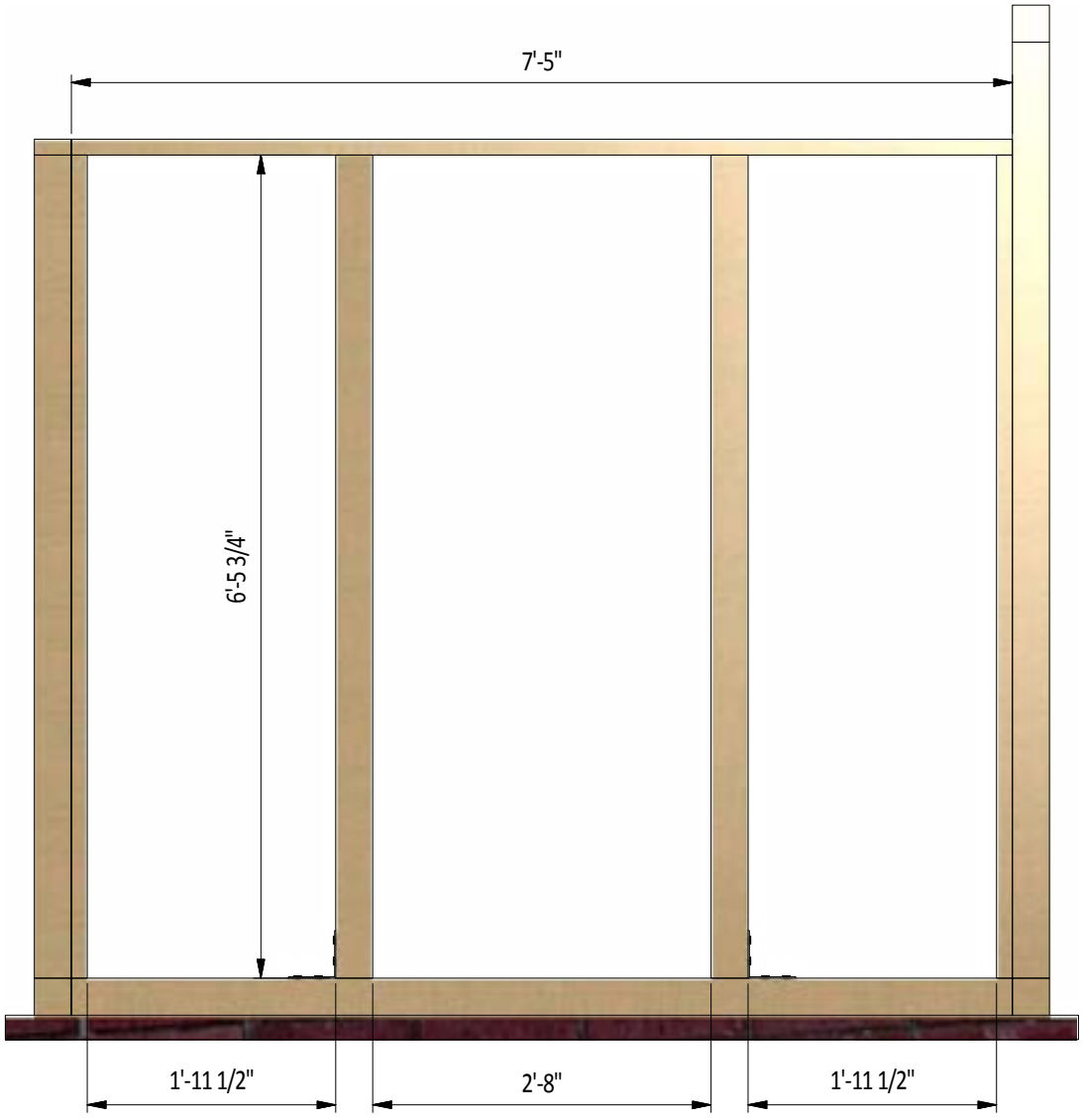
STEP 5

Assemble Left Wall Frame

5.1 Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct wall frame using the drawing below as a reference. You will need four boards cut to 6'-5 3/4" that will be the studs, one board cut to 7'-5" that will be top plate.

5.2 Connect the beams with 3" wood screws. Use two 4 1/2" x 4 1/2" x 1/2" corner braces and 8x1" wood screws to secure the studs (node B on page 19).

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



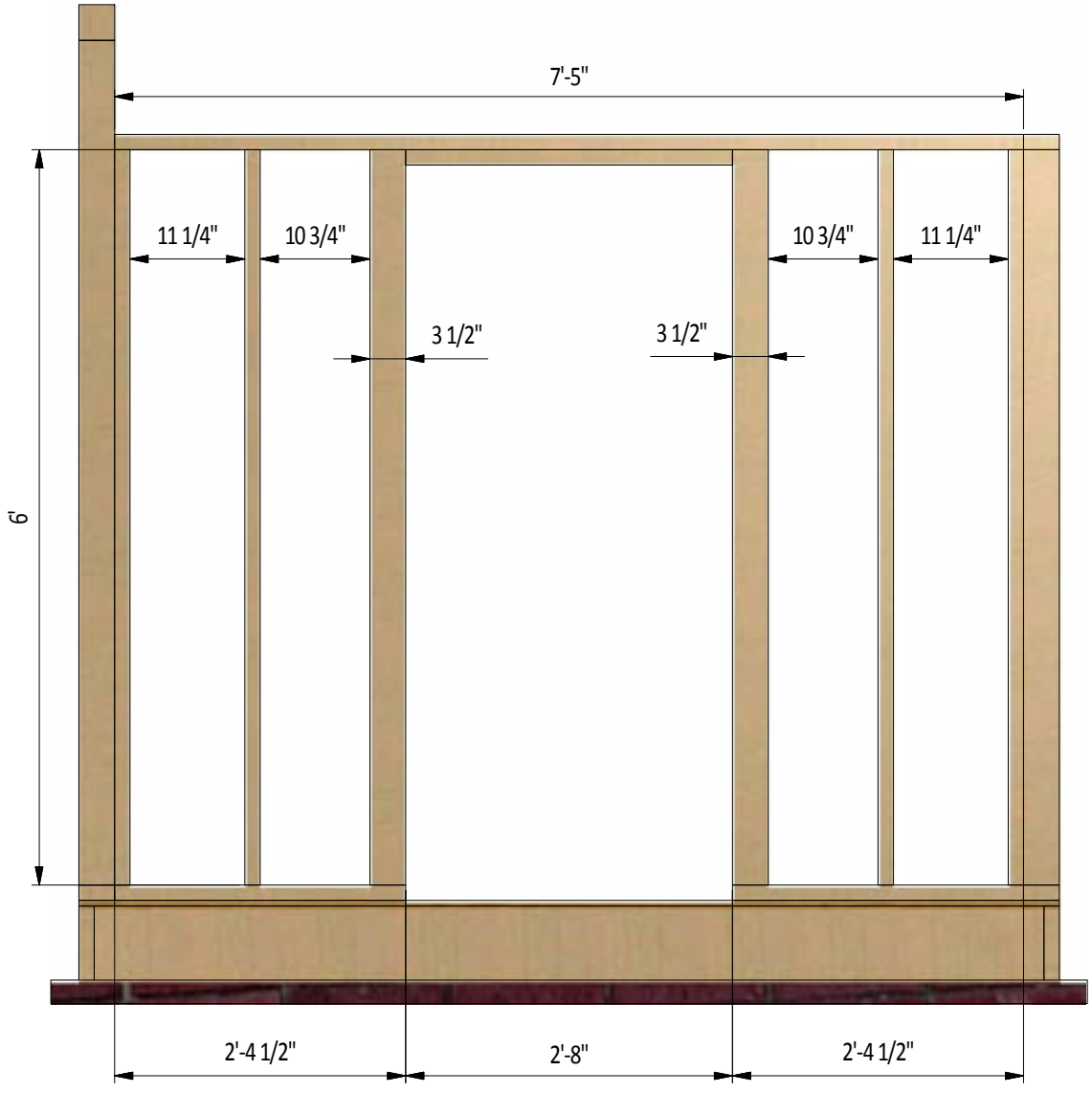
STEP 6

Assemble Right Wall Frame

6.1 Using 1 1/2" x 3 1/2" and 3 1/2" x 3 1/2" pressure-treated lumber, construct wall frame using the drawing below as a reference. You will need six boards cut to 6' that will be the studs, one board cut to 2'-8" that will be door header, one board cut to 7'-5" that will be top plate and two boards cut to 2'-4 1/2" that will be the bottom plates.

6.2 Connect the beams with 3" wood screws.

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



STEP 7

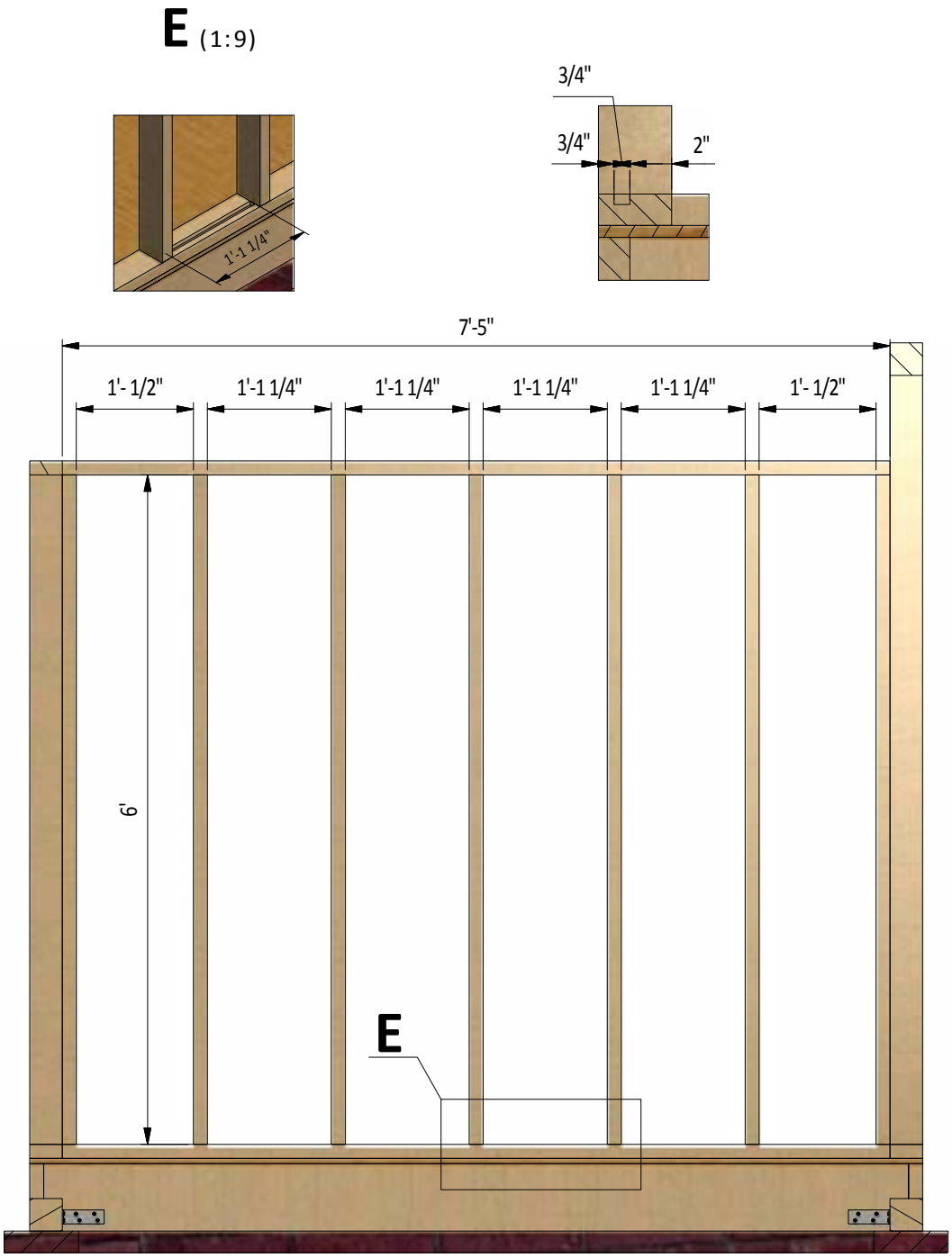
Assemble Inner Wall Frame

7.1 Using 1 1/2" x 3 1/2" pressure-treated lumber, construct wall frame using the drawing below as a reference. You will need seven boards cut to 6' that will be the studs and two boards cut to 7'-5" that will be the top and bottom plates.

7.2 Connect the beams with 3" wood screws.

7.3 Cut the recess for the chicken door in the inner bottom beam (node E).

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



STEP 8

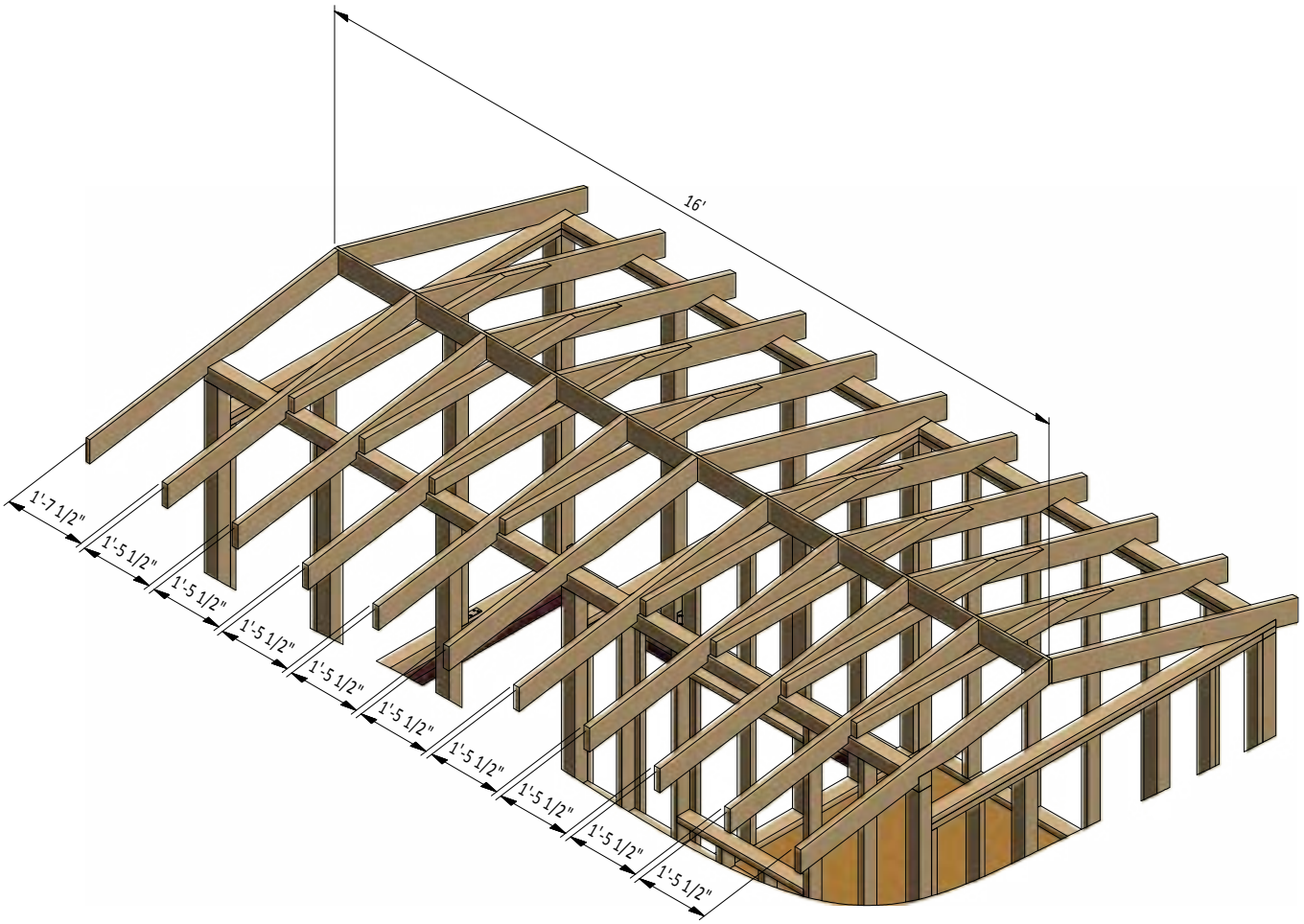
Assemble the Roof Frame

8.1 Using 1 1/2" x 5 1/2" pressure-treated lumber, cut eleven rafters 5'-8 1/2" long for the front side and eleven rafters 5'-10 1/2" long to the back side according to the dimensions in Nodes F, G, H on page 26.

8.2 Using 1 1/2" x 3 1/2" pressure-treated lumber, cut eight collar ties 5'-9" long according to the dimensions in Node F on page 26.

8.3 Using 3/4" x 5 1/2" pressure-treated board, cut the ridge board 16' long according the illustration below.

8.4 Connect the beams with 2x3" wood screws.



STEP 9

Window Installation for the Front Wall

9.1 Using 1 1/2" x 2 1/2" pressure-treated lumber, assemble the outer frame for the window as shown in the drawing below. You will need two boards cut to 2'-7" that will be the vertical girts and two boards cut to 2'-10" that will be the horizontal girts (see page 43).

9.2 Use 3/4" x 2 1/4" pressure-treated material to make the inner frame supports and secure with 3" wood screws. You will need two boards cut to 2'-7" and mill a recess for interconnection (see page 43).

9.3 Prepare and install glass into inner frame groove and fasten it by window beading from four sides. Use 1/2" galvanized nails.

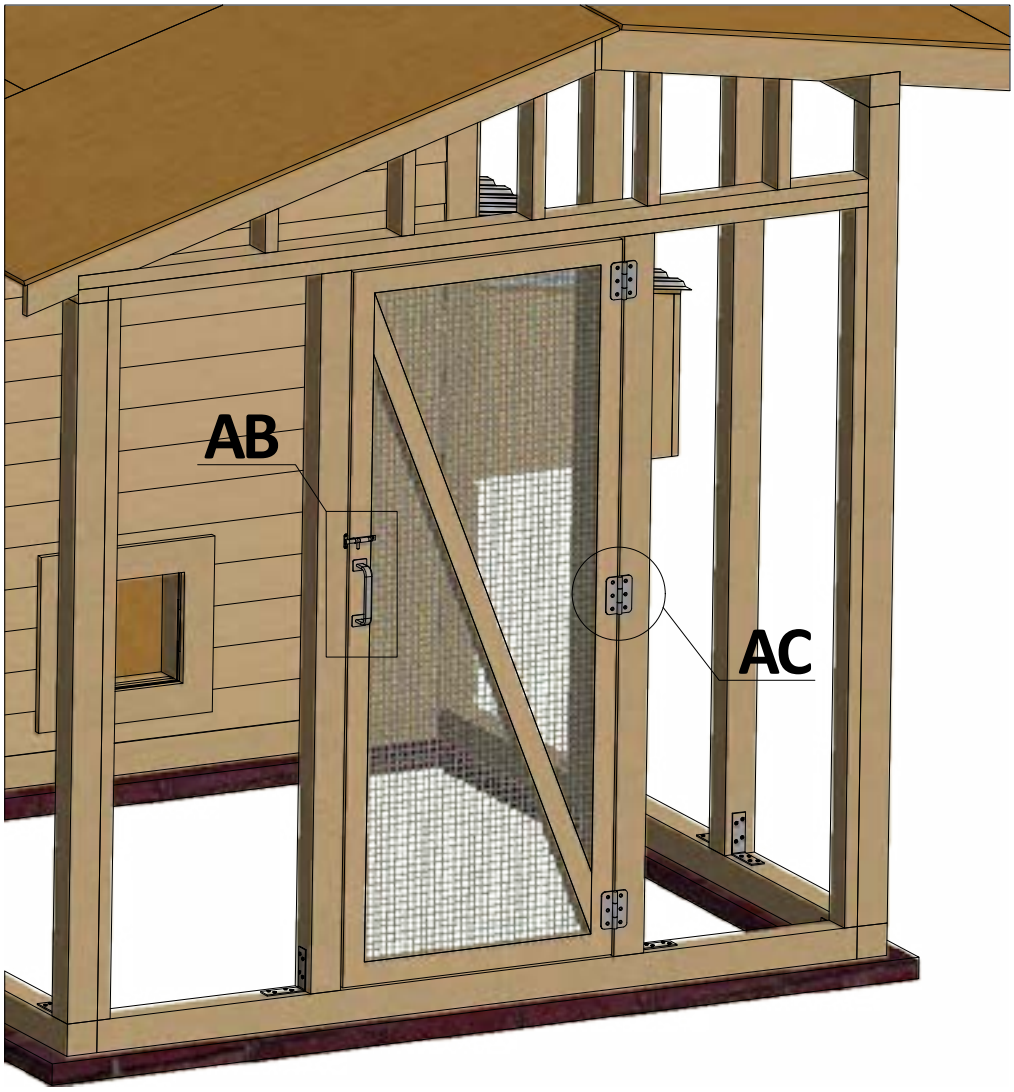
STEP 10

Assemble and Install Aviary's Door

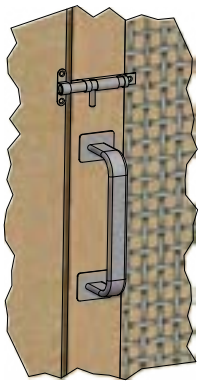
10.1 Build the door frame for the aviary using 1 1/2" x 2 1/2" pressure-treated lumber and secure with 5" wood screws. You will need two boards cut to 6'-5 1/4" that will be the vertical girts, two boards cut to 2'-2 1/2" that will be the horizontal girts and one board cut to 6'-5" that will be a cross brace.

10.2 Prepare 1/4" wire mesh in the required quantity and install it on the inner side of the frame with the help of industrial stapler.

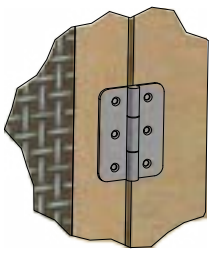
10.3 Install three 3" door hinges using 6x1" wood screws. Finish the doors installation by attaching 4" surface bolt and 6" door pull (see nodes AB, AC).



AB (1:8)



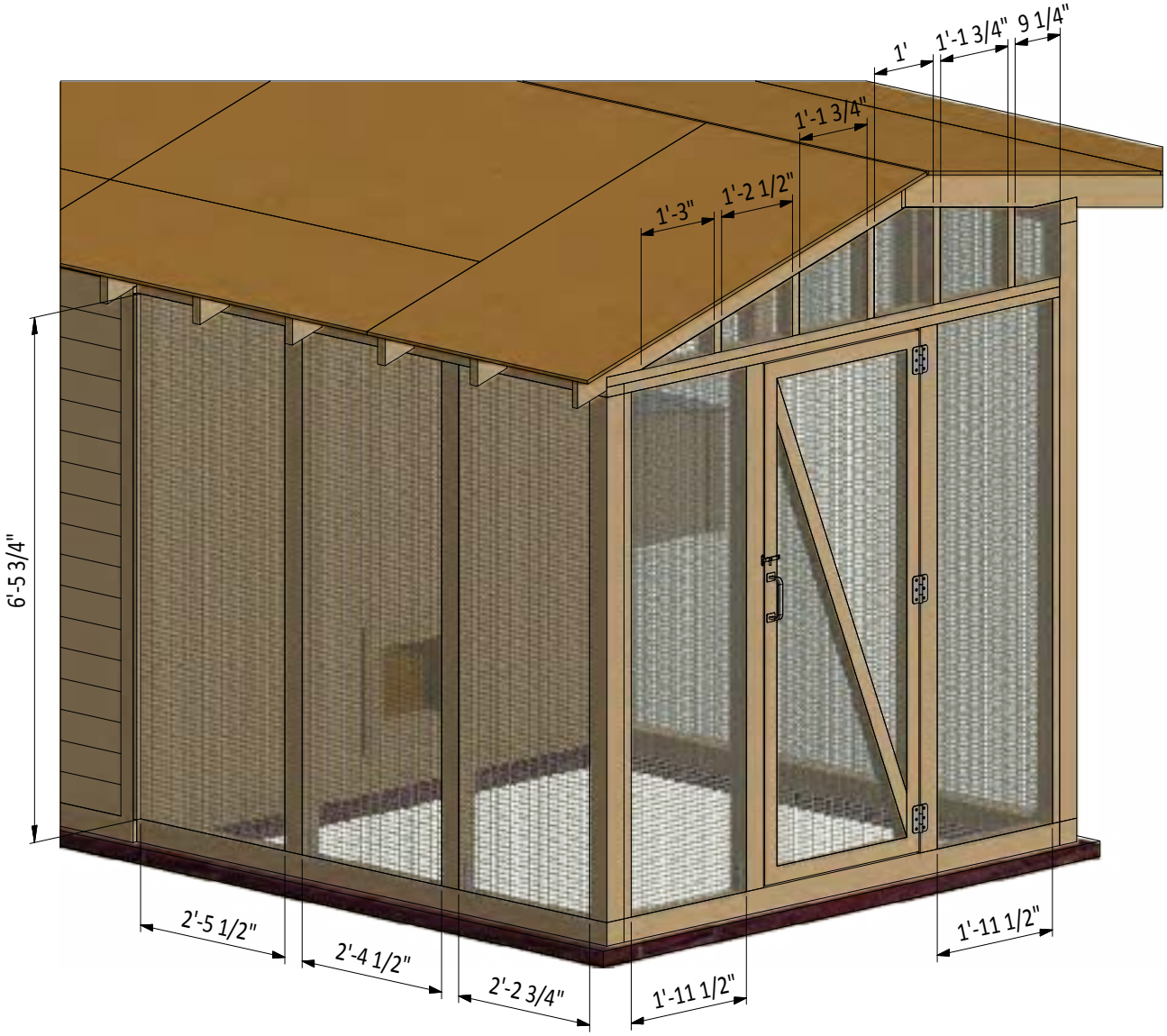
AC (1:8)



STEP 11

Aviary's Mesh Wall Installation

11.1 Prepare 1/4" wire mesh in the amount of 150 ft2 and install it on the inner side of the frames with the help of industrial stapler.



STEP 12

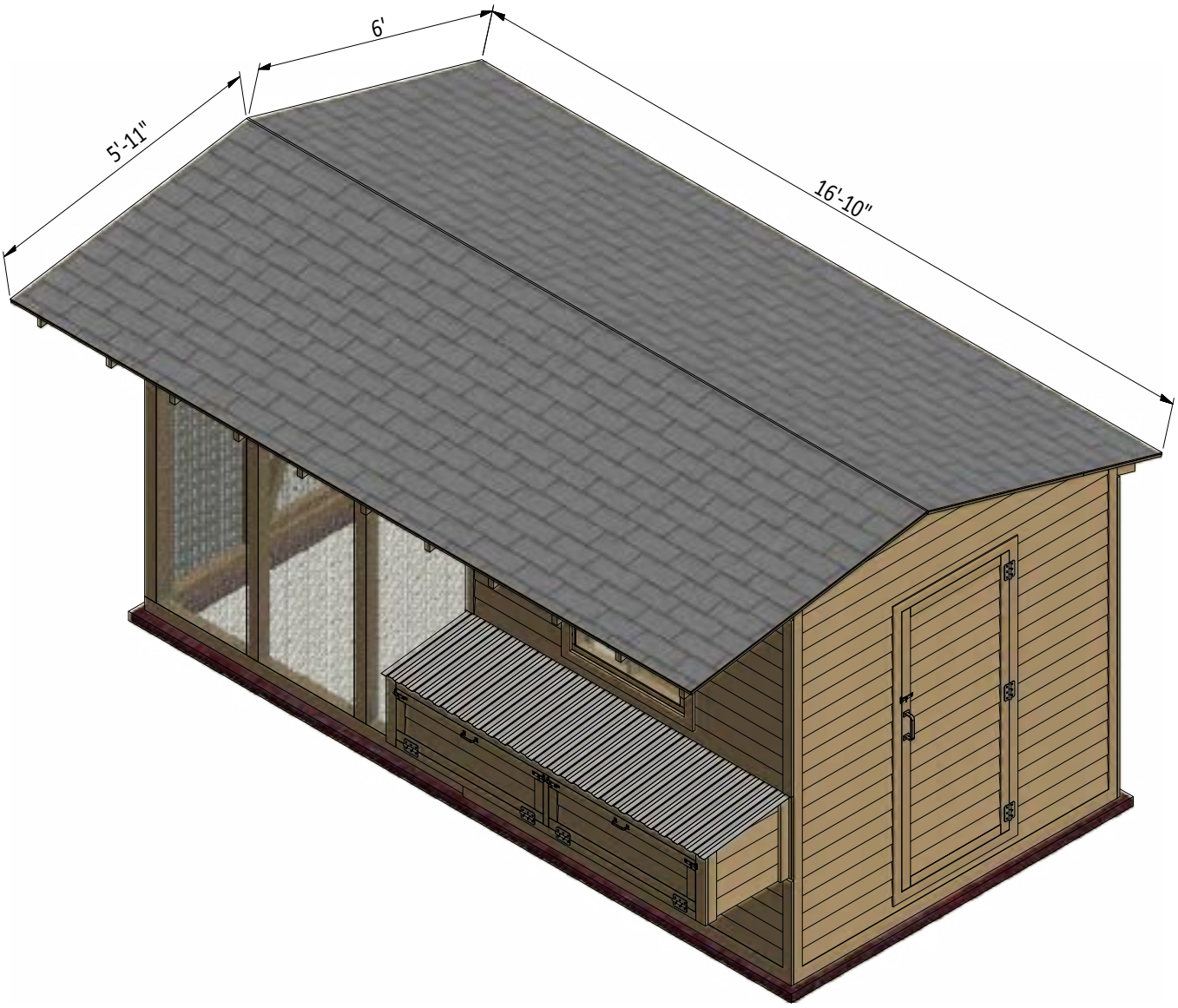
Roof Sheathing Installation

12.1 You will need 210 Sq Ft of asphalt shingle roofing.

12.2 Add the metal drip edge to the fascias.

12.3 Cover the plywood with building paper.

12.4 Install asphalt shingle roofing using an industrial stapler.



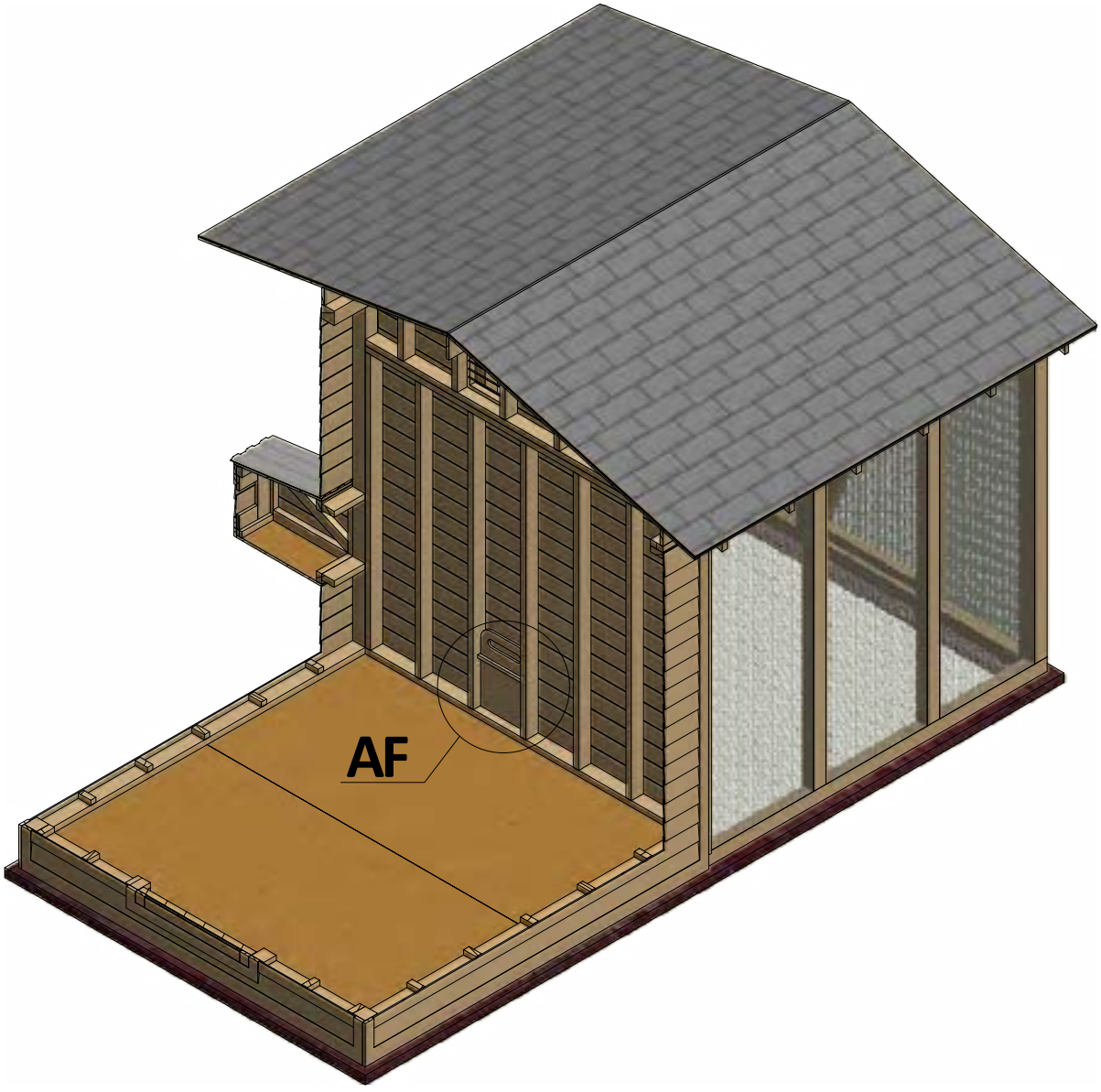
STEP 13

Install Chicken Door In The Inner Wall

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

13.2 Using 3/4" x 3/4" pressure-treated lumber, cut two girts 1'-1 1/4" long according to the dimensions in nodes AF, AH on page 50 to make the groove for the door.

13.3 In the Step 11 you milled 1/2" deep section in the bottom beam that will help to secure the door and prevent them from being opened from the outside.

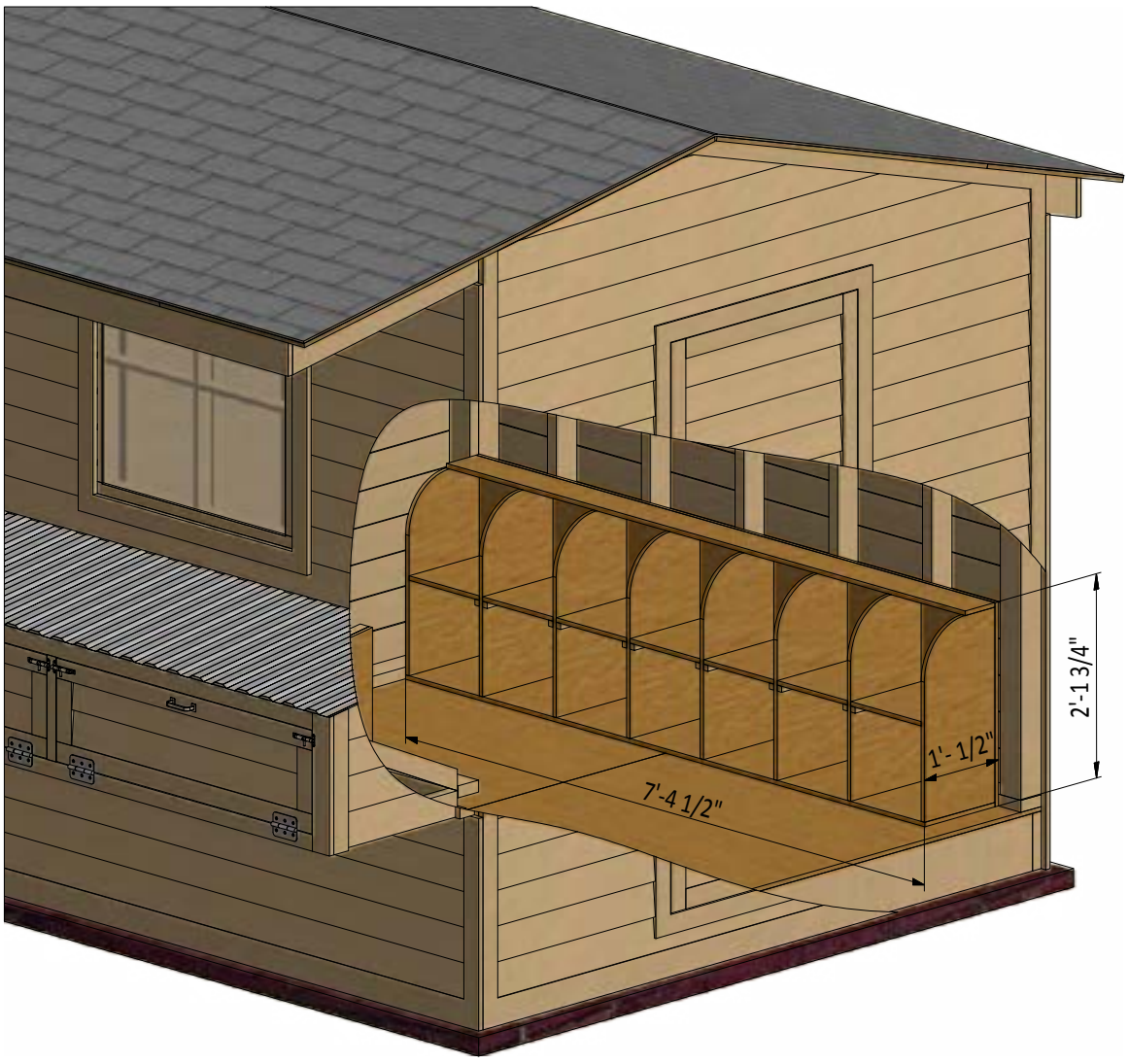


STEP 14

Nesting Box Assembly

14.1 Prepare the 5/8" plywood for horizontal and vertical walls and assembly them with 2" wood screws. You will need seven 1' x 1' sheets that will be the shelves, eight 2'-1/2" x 1' sheets that will be vertical artitions (see node AK on page 53), one 7'-4 1/2" x 1' sheet that will be bottom plate, one 7'-4 1p /2" x 5" sheet that will be top plate and one 2'-1 3/4" x 7'-4 1/2" that will be backside plate.

14.2 Use twelve girts 1' long made of 3/4" x 3/4" pressure-treated lumber for securing the shelves with partitions with the help of 1" wood screws.

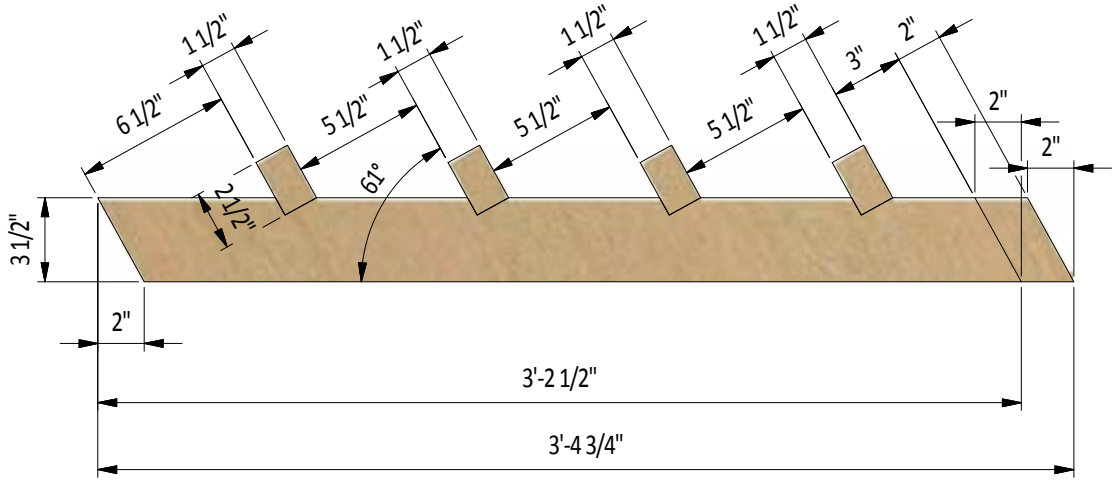


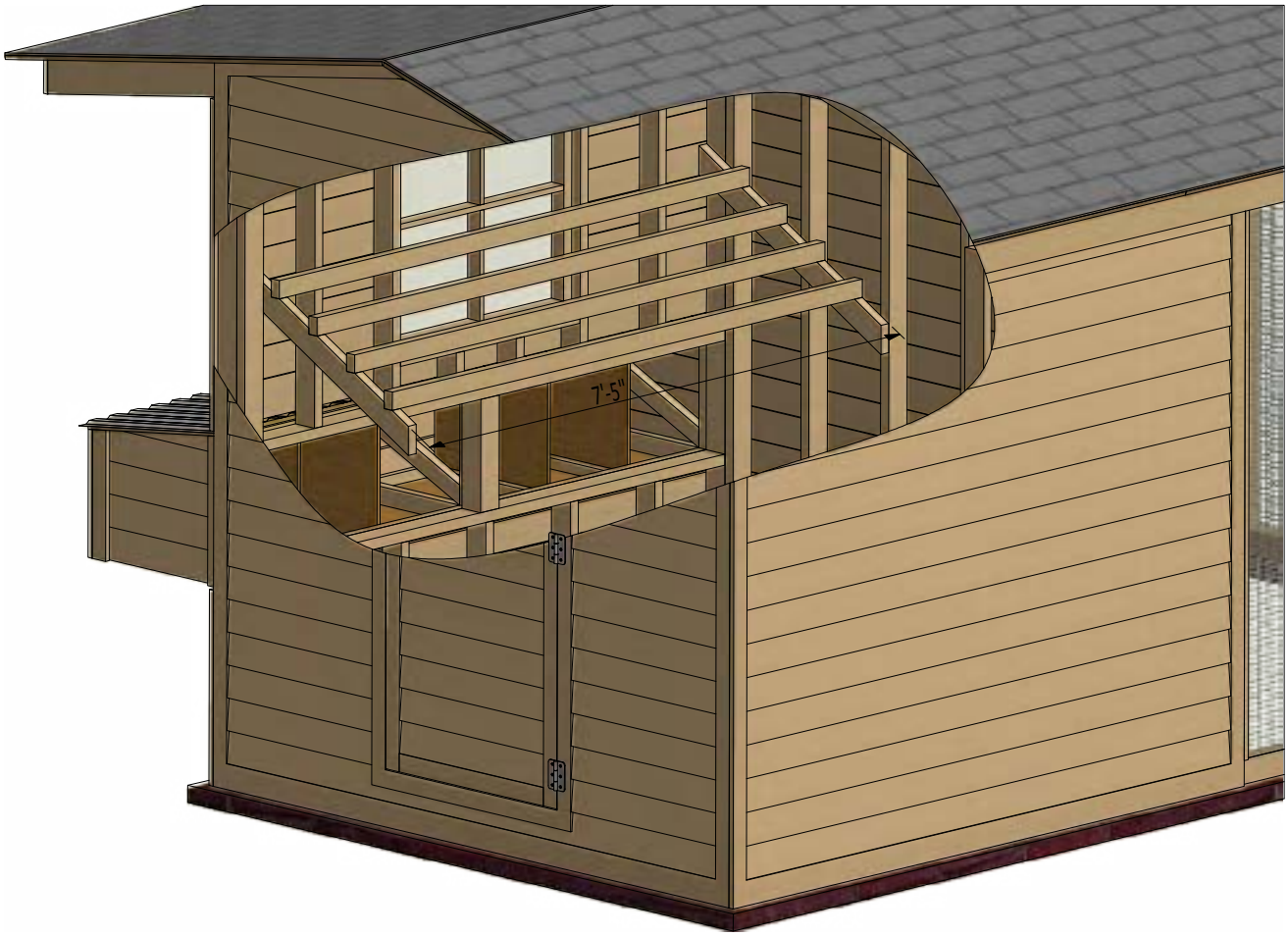
STEP 15

Coop's Roost Assembly

15.1 Using 1 1/2" x 3 1/2" pressure-treated material, make the roost frame using the illustration below as a guide and secure with 3" wood screws. You will need one board cut to 3'-2 1/2" for the right wall and one board cut to 3'- 4 3/4" for the inner wall. Cut the recesses in each beam for splicing conneo ction.

15.2 For the stairs, you will need 1 1/2" x 2 1/2" pressure-treated material. You will need four boards cut to 7'-5". Using the illustration as a reference, secure the stairs with 2" wood screws.





STEP 16

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.

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Pages	21	54
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TRY PREMIUM

For more great **HOW-TO** plans please visit: **https://easycoops.com/**