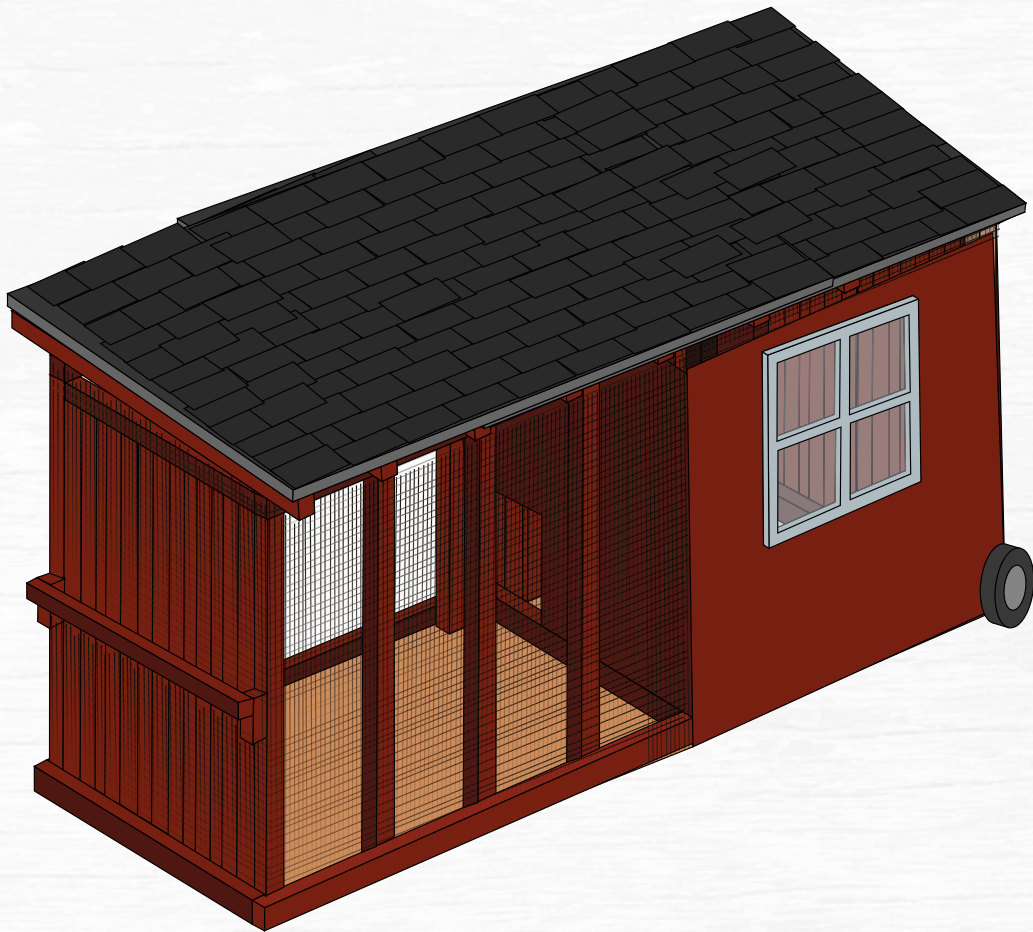


AN EASY STEP-BY-STEP

6x12 Movable Chicken Coop Plan



GET YOUR RUN UP-AND-RUNNING IN NO TIME AT ALL!



DISCOVER MORE AT: TRACTORSUPPLY.COM

Looking for a durable and mobile chicken coop to keep your flock safe and secure?

This 6x12 Movable chicken coop plan is just the ticket! Whether you're a small farm owner, a homesteader, or a backyard chicken enthusiast, this coop offers ample space for up to 12 chickens. It's ideal for those who want to rotate their chickens around their property for better pasture health or need a sturdy, movable option.

MATERIALS LIST

LUMBER / WOOD:

- **2x4s (pressure-treated):** 21 pieces, 12' long
- **Standard 2x4s:** 21 pieces, 12' long & 1 pieces, 4' long
- **1x4s (pressure-treated):** 2 pieces, 8' long
- **1/2" exterior-grade plywood:** 10 sheets, 4' x 8'
- **3/4" exterior-grade plywood:** 3 sheets, 4' x 8'

HARDWARE:

- **1" screws with 1/2" washers:** 300
- **1 1/4" screws:** 5 lbs
- **1 1/2" screws:** 2 lbs
- **3" screws:** 10 lbs
- **3" carriage bolts (with nuts and washers):** 4
- **8" fixed heavy-duty wheels:** 2
- **24" x 24" pre-hung windows:** 1
- **Heavy-duty door hinges:** 3 (walk-in door)
- **Medium-duty hinges:** 2 (chicken pop door)
- **Heavy-duty locking latches, padlock-compatible:** 2 (main door)
- **6" door pull (Main door)**
- **1/2" galvanized hardware cloth:** 300 square feet (for predator-proofing)
- **Roofing materials (metal sheets or asphalt shingles):** check packaging for 150 sq. ft. coverage
- **Exterior-grade silicone caulk:** 2 tubes
- **Exterior paint or stain (weatherproof):** 2 gallons (optional)
- **Wood sealer:** (optional for extra protection)

TOOLS NEEDED

CUTTING & MEASURING:

- **Tape measure** (at least 25')
 - **Speed square/carpenter's square**
 - **Carpenter's pencil or chalk**
 - **Circular saw** (for cutting plywood and 2x4s)
 - **Wire snips/side cutters**
 - **Miter saw or hand saw** (for precise angle cuts)
-

DRILLING & FASTENING:

- **Drill/driver** (corded or cordless)
 - **Drill bits** (for pilot holes)
 - **Screwdriver bits for 1 ¼", 1 ½", 2", and 3" screws**
 - **Hammer** (for nails and hardware cloth)
-

ASSEMBLY & SUPPORT:

- **Clamps** (optional, for holding pieces while screwing)
 - **Level** (to ensure walls and frame are plumb)
 - **Sawhorses or workbench** (to support plywood while cutting)
-

ROOFING & EXTERIOR:

- **Utility knife** (for shingles or underlayment)
 - **Roofing nails or screws** (if using metal roofing)
 - **Caulk gun** (for exterior-grade silicone caulk)
 - **Paintbrushes/rollers** (for exterior paint or stain)
-

SAFETY:

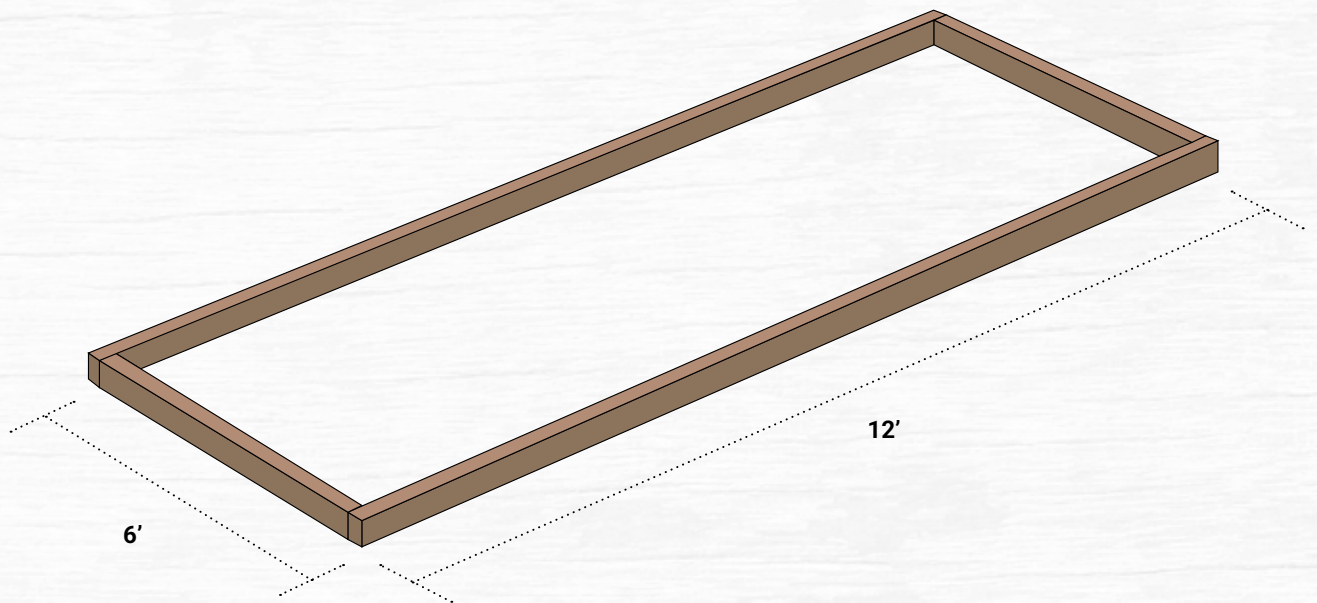
- | | |
|-----------------------------|--|
| • Safety glasses | • Work gloves |
| • Hearing protection | • Dust mask (especially when cutting plywood) |

STEP 1

Preparing the Base

Frame the Base:

- Use four **pressure-treated 2x4s** to form the frame: **two 12' lengths** for the sides, and **two 6' lengths** for the front and back.
- Assemble the frame using **3" screws**, ensuring the angles are square.

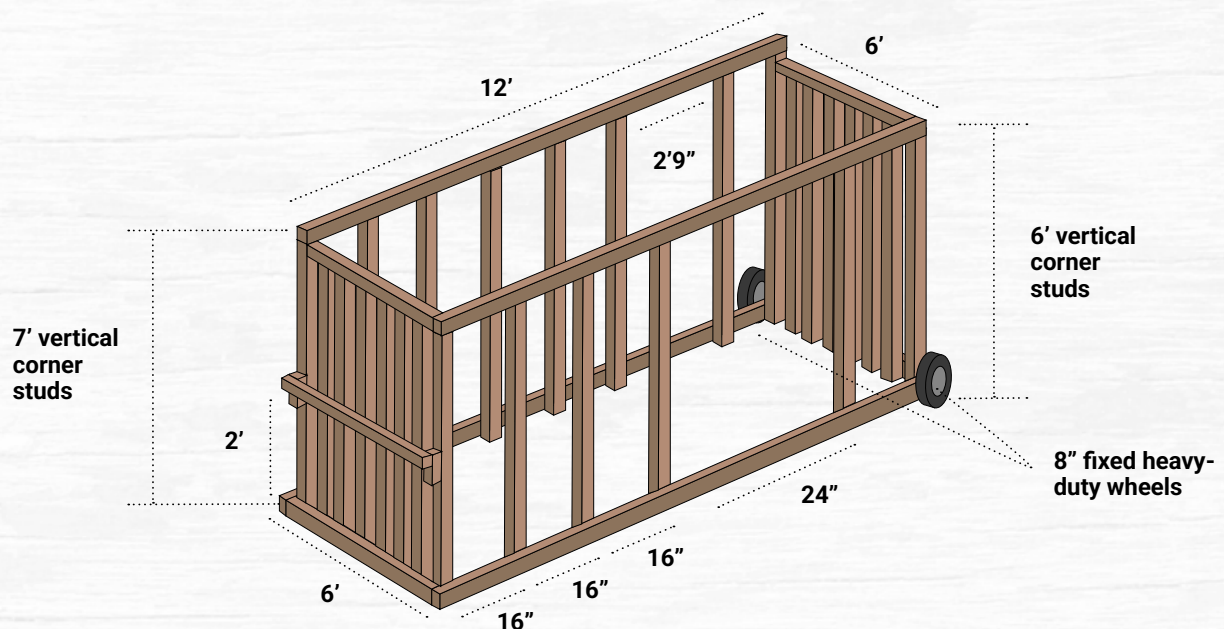


Framing the Walls

- Use **pressure-treated 2x4s** to cut eight **7' vertical studs** and space them between **16"** and **24"** apart, leaving an opening of approximately **2' 9"** for the door width.
- Use a **standard 2x4** at **12'** for the top horizontal framing.
- Assemble with **3" screws**.

- Use **pressure-treated 2x4s** to cut six **6' vertical studs** and space them approximately **16"** apart, leaving an opening of approximately **24"** for the window.
- Use a **standard 2x4** at **12'** for the top horizontal framing.
- Assemble with **3" screws**.

- Use **pressure-treated 2x4s** to cut seven **6' vertical studs** and space them approximately **16"** apart.
- Use a **standard 2x4** at **6'** for the top horizontal framing.
- Assemble with **3" screws**, and repeat for both side walls.
- Install two **8" fixed heavy-duty wheels** at the bottom of the vertical corner studs of the left side wall with **3" carriage bolts**.
- Use **two standard 2x4** at **2'** to attach handles at the required height of the corner vertical studs on the right side wall.



STEP 3

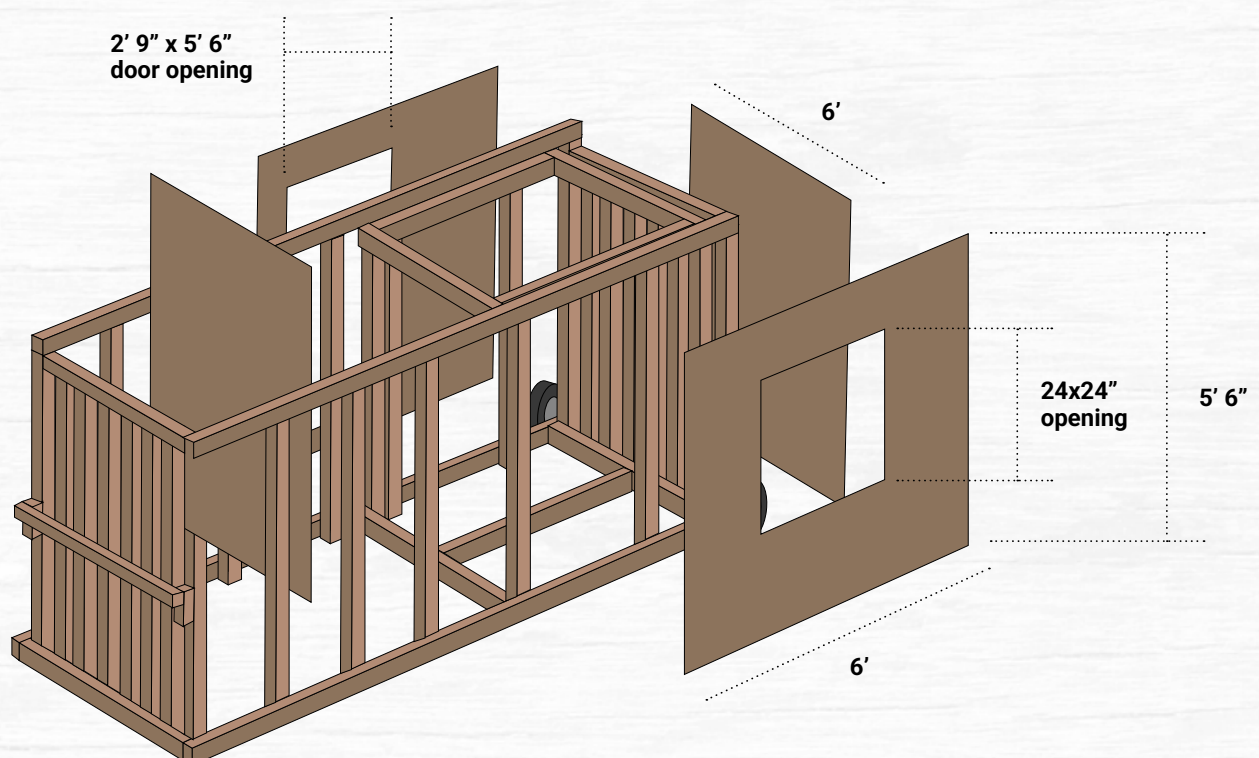
Enclosed Coop

Framing Enclosed Coop:

- Use a **standard 2x4** cut to **6'** as a vertical stud and install on the back wall, 6' from the side wall.
- Use a **standard 2x4** cut to **6'** as a vertical stud and install on the front wall, 6' from the side wall.
- Install **two 5' 8"** horizontal **standard 2x4s** to frame the bottom.
- Add **one 5' 8"** horizontal **standard 2x4** at the center for the cross brace.
- Install **two 6'** horizontal **standard 2x4s** and **two 5' 8"** horizontal **standards** for the top framing.
- Use **3"** screws for the frame.

Walls, Floor & Roof:

- Screw **3/4"** exterior-grade **plywood** onto the horizontal frames to create the coop floor and roof.
- Use **1/2"** exterior-grade **plywood** to skin the sides, back and front of the structure, leaving a **4"** opening at the top of each side, for ventilation.
- On the front wall, cut a **2' 9" x 5' 6"** hole for the main door opening.
- On the back wall, cut a **24" x 24"** hole for the window opening.
- On the interior wall, cut a **10" x 12"** hole for the chicken pop door and re-attach it with hinges.
- Use **1 1/4"** screws to attach the plywood to the frame.
- Cover the ventilation openings on the inside with **1/2"** hardware cloth, fastened with **1"** screws with **1/2"** washers to prevent predators or rodents from entering the sleeping area.



STEP 4

Roof Framing & Sheathing

Cut Roof Rafters:

- Use **nine standard 2x4s** cut to **9'** for the roof rafters. This allows for an overhang on both the front and back to keep the coop dry.
- Notch the ends of each rafter for a solid connection to the top frame.

Assemble the Roof:

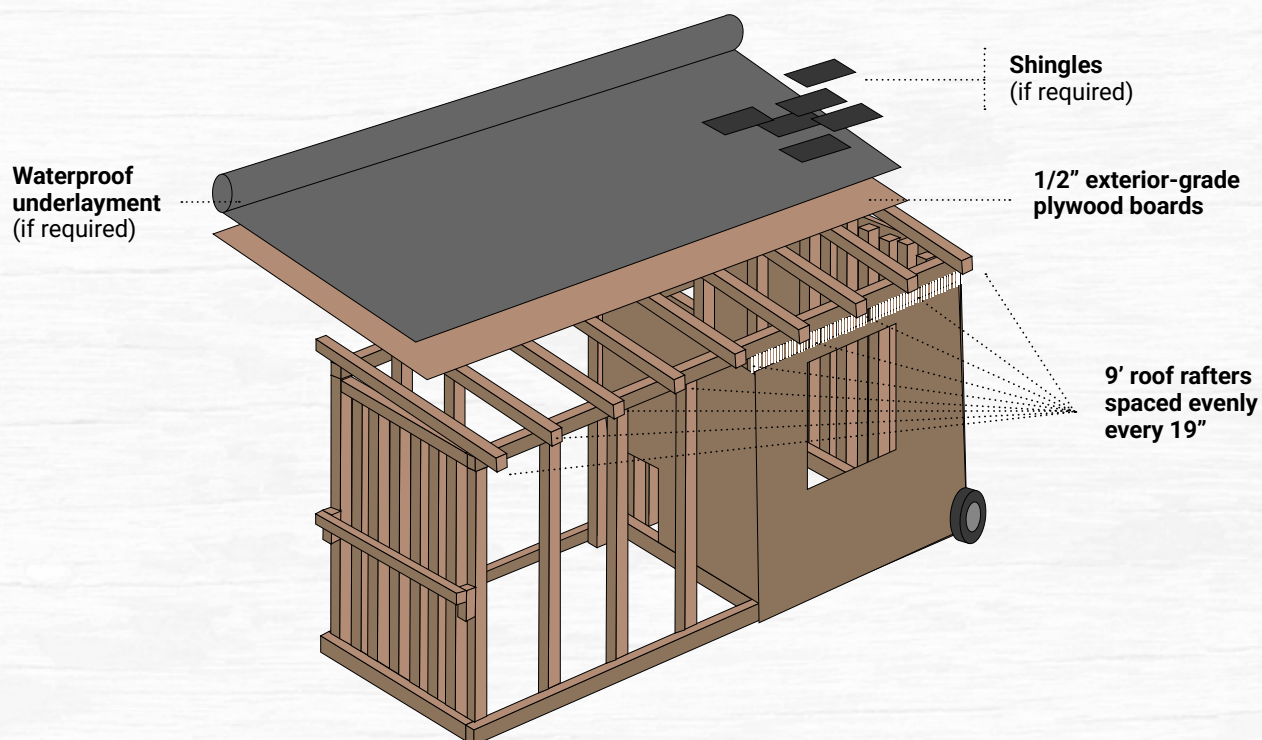
- Attach the rafters to the top frame using **3" screws**, ensuring the rafters are evenly spaced at around every **19"** for stability.

Install Roof Sheathing:

- Secure **1/2" exterior-grade plywood boards** to the rafters. Ensure plywood extends past the walls for side overhangs.
- Use **1 1/4" screws** to attach the plywood to the rafters.

Install Roofing:

- If using shingles: Install a waterproof underlayment first, then apply the shingles according to the manufacturer's instructions.
- If using metal roofing, secure the metal sheets with appropriate fasteners.
- Ensure all edges are sealed and weatherproofed to prevent leaks.



STEP 5

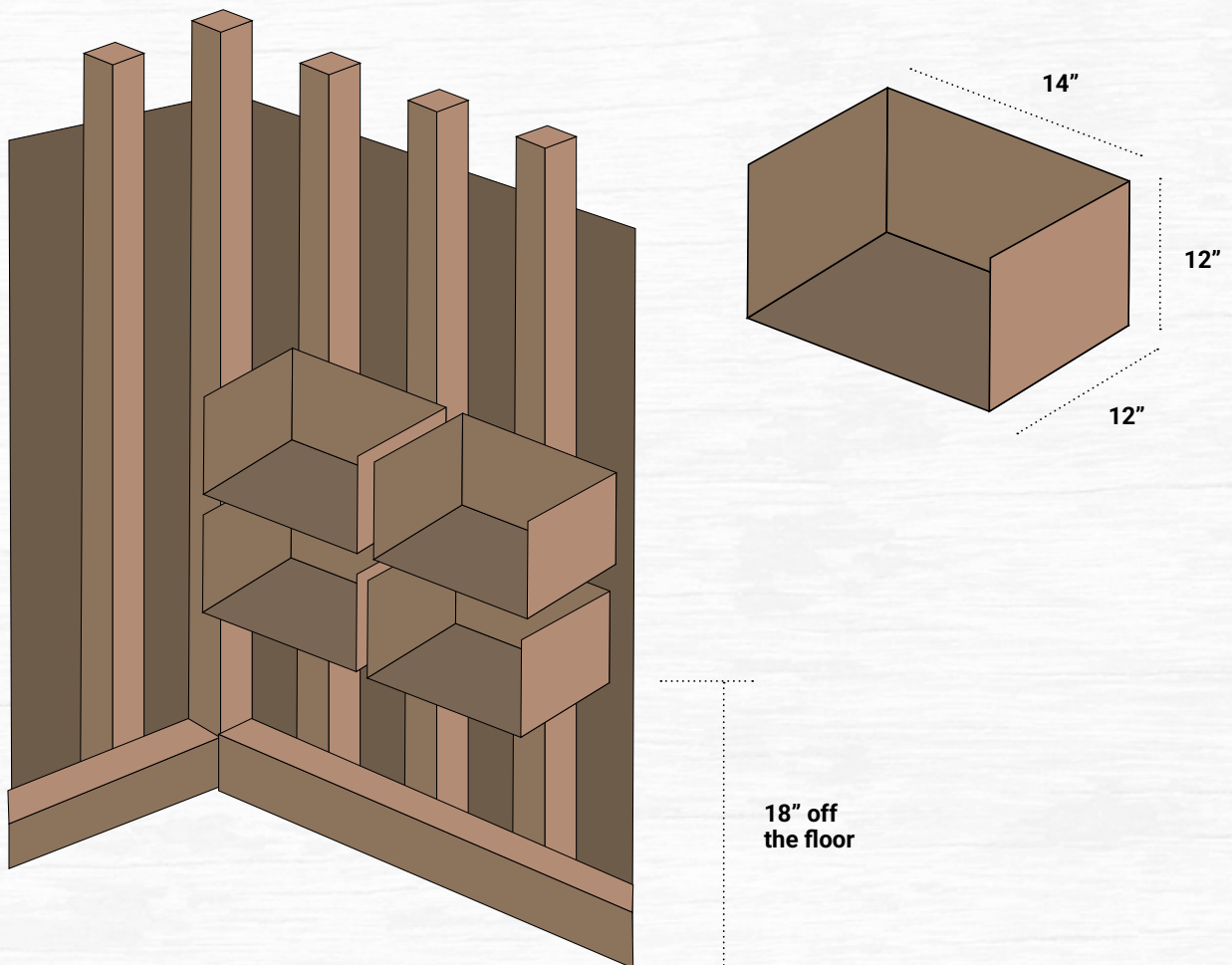
Nesting Boxes & Roosting Bar

Nesting Boxes:

- Cut nesting boxes from **1/2" exterior-grade plywood**. Two sides at **12" x 12"**, floor at **14" x 12"**, and the front wall at **14" x 12"**.
- One box per three chickens is ideal, so adjust the number based on your flock size.
- Install the boxes inside the coop on side walls, at least **18"** off the coop floor.

Roosting Bar:

- Install **two standard 2x4** at **6'** horizontally inside the coop, **8" higher** than the nesting boxes and at least **12"** away from the nearest wall.
- Position the **standard 2x4** with the wide side facing up so the chickens can rest on a flat surface.



STEP 6

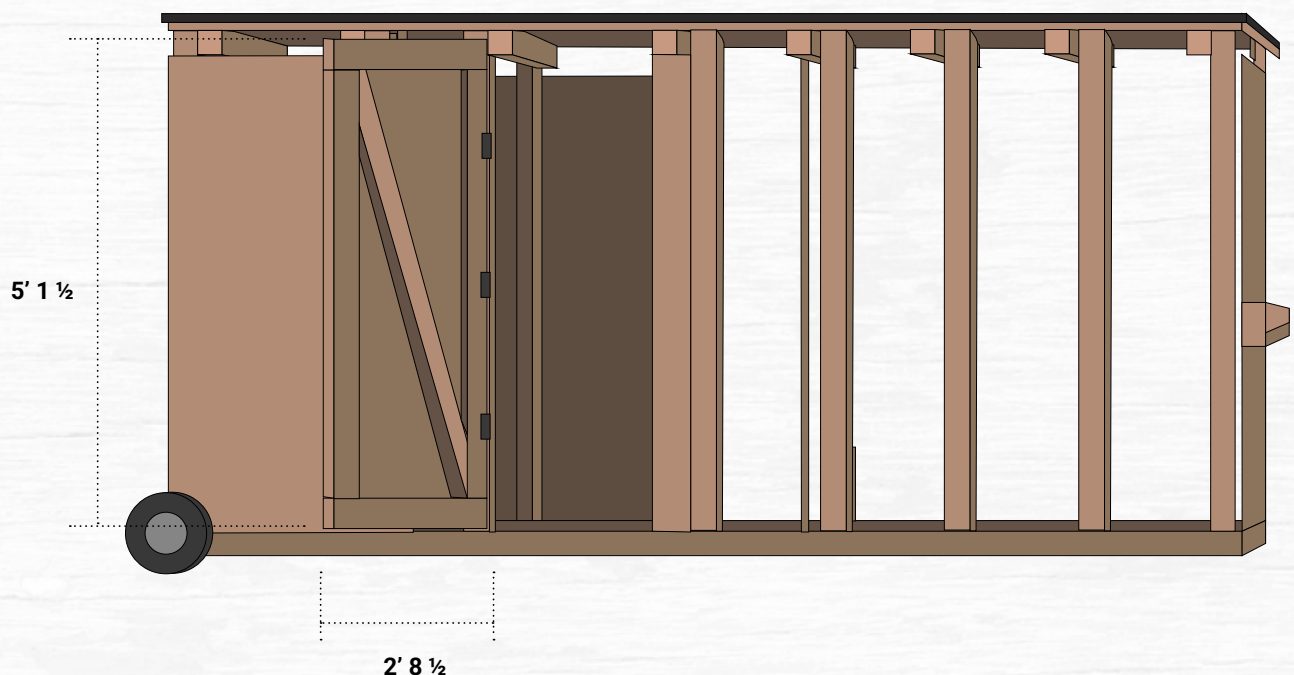
Installing the Door

Main Door:

- Cut a piece of **1/2" exterior-grade plywood** to be **2' 8 1/2" x 5' 5 1/2"** (this **1/4"** gap on all sides prevents the door from sticking when the wood swells in the rain).
- Lay your plywood door flat. Use **standard 2x4s** for two vertical framing at **5' 1 1/2"**.
- Use **standard 2x4s** as two horizontal framing at **2' 8 1/2"**.
- Measure and cut a **standard 2x4** to fit diagonally inside that rectangle. It must run from the top corner (hinge side) down to the bottom corner (latch side).
- Attach the frame pieces with **3" screws**, ensuring that all angles are square using a speed square.
- Secure the frame to the **1/2" exterior-grade plywood** using **1 1/2" screws**.

Attach Hinges & Latch:

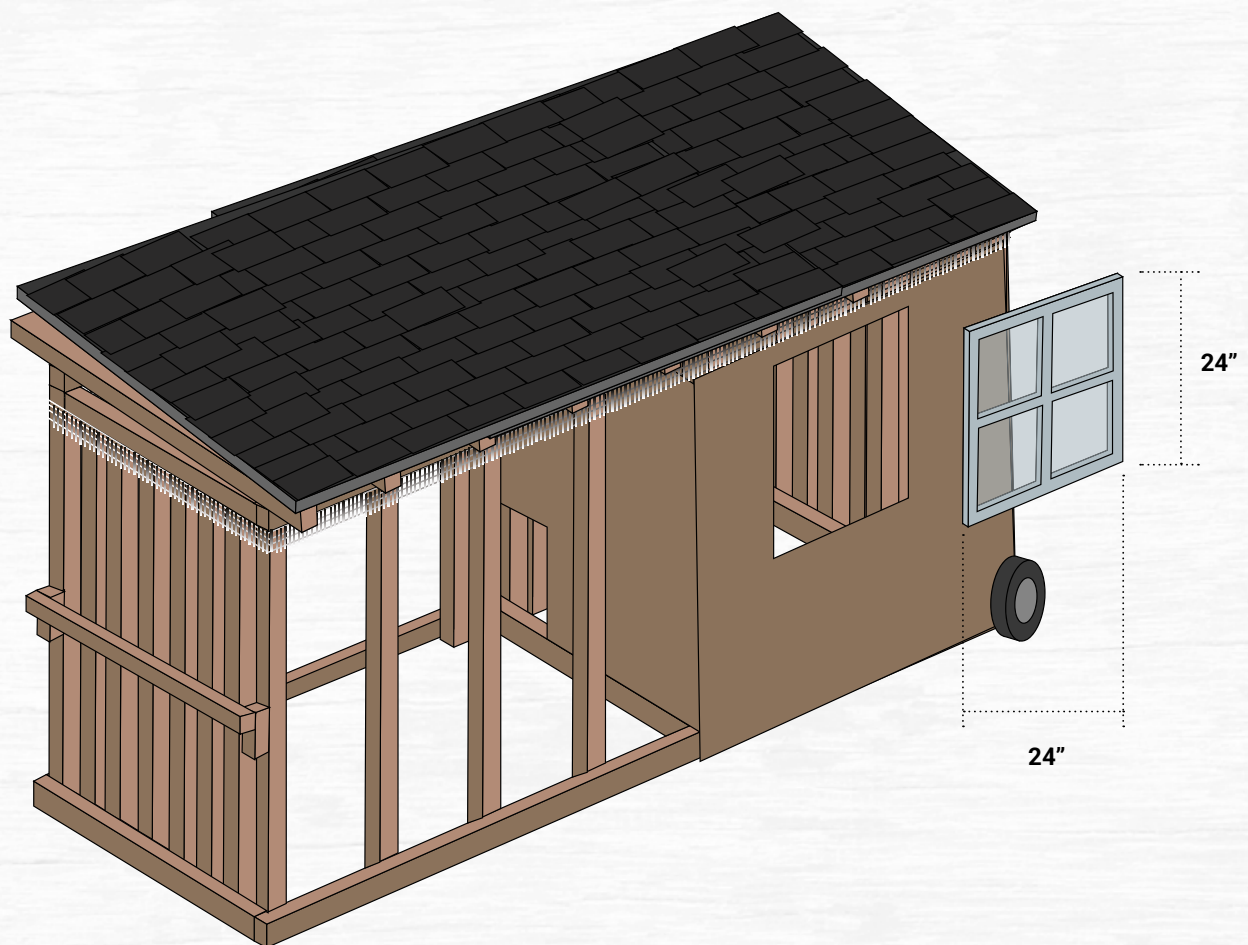
- Attach **3 heavy-duty hinges** to the door and the coop frame.
- Install a secure locking latch to prevent predators from opening the door.
- Finish the door installation by attaching a **6" door pull**.
- Ensure the door swings outward for safety.



STEP 7

Installing Window

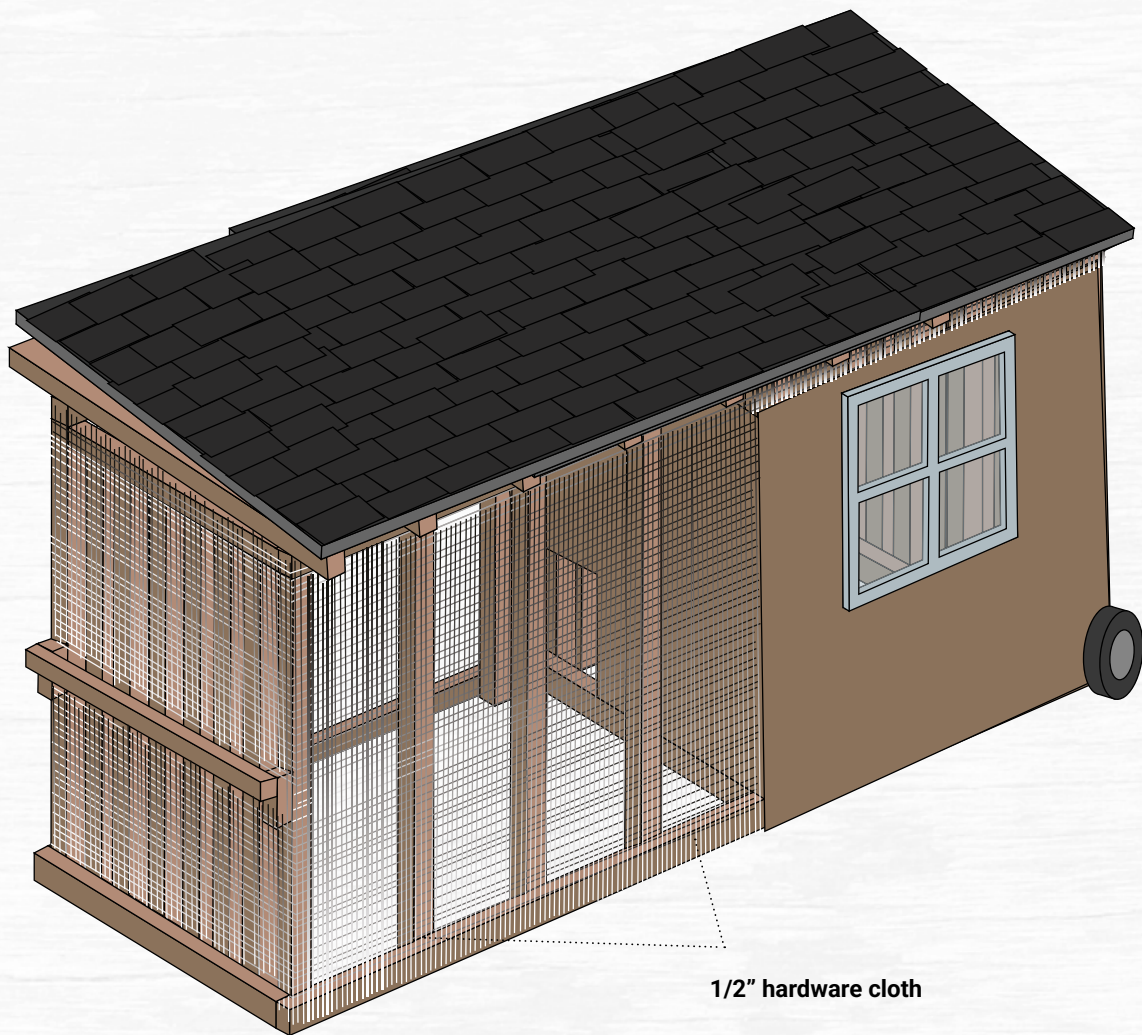
- Lift your **24" x 24" pre-hung window** into the framed opening on the back wall to ensure a proper fit.
- Apply a thick bead of **exterior-grade silicone caulk** around the back of the window flange before inserting it into the opening.
- Place the window in the opening. Use a level to ensure it is perfectly straight. Fasten the window to the framing using **1 ½" screws** through the pre-drilled holes in the flange.
- Use **pressure-treated 1x4s** to frame the outside of the windows.
- On the inside of the coop, fasten **1/2" hardware cloth** over the window openings using **1" screws** with **1/2" washers**.



STEP 8

Installing the Hardware Cloth

- Wrap **1/2" hardware cloth** horizontally around all exposed areas of framed walls.
- Fasten the wire to the wood using **1" screws** with **1/2" washers** every **4"**.



STEP 9

Finishing Touches

Painting:

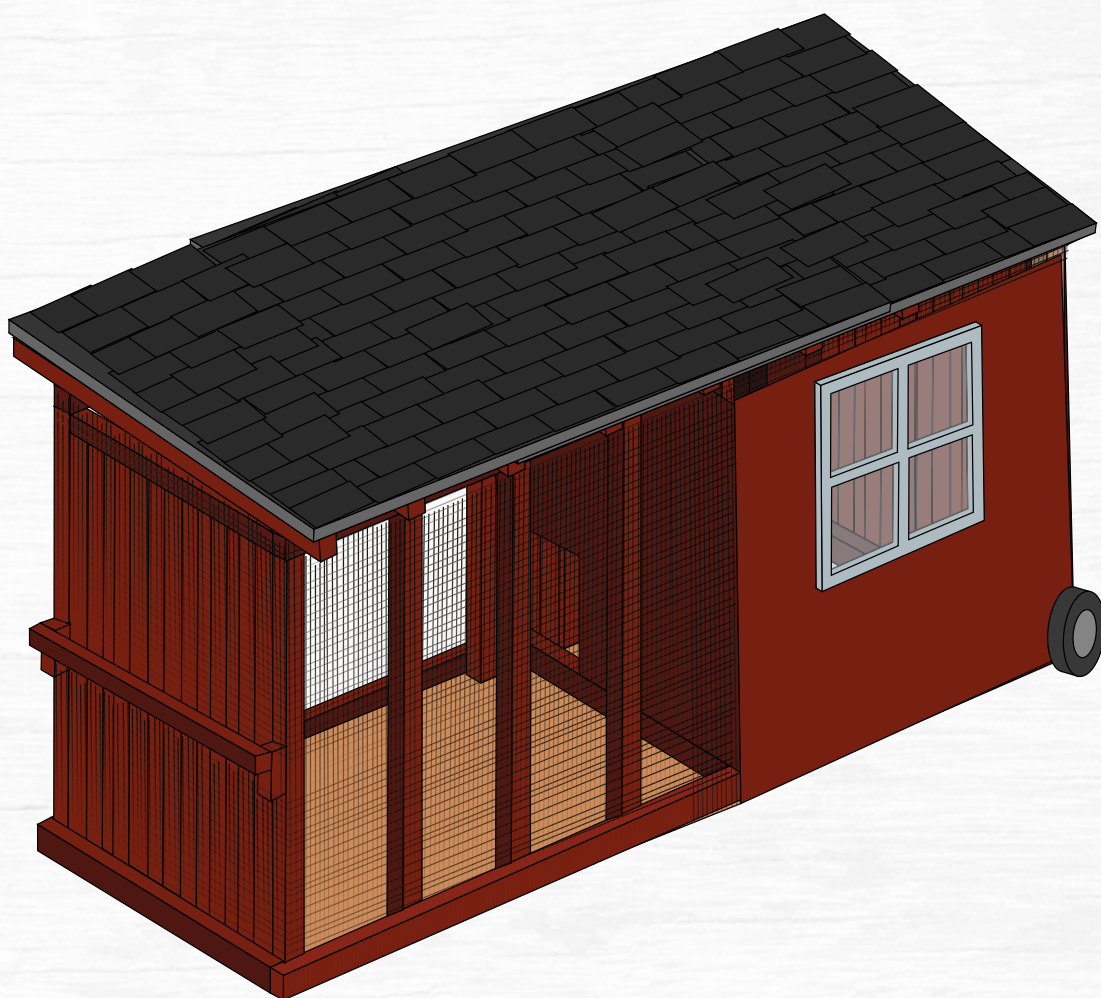
- Paint or stain the exterior of the coop frame with **weatherproof exterior paint**.
- Ensure all exposed wood and roof edges are sealed.

Predator-Proofing:

- Ensure all openings are securely covered with **1/2" hardware cloth**.

Cleaning:

- Consider adding a **deep litter system (4-6" of pine shavings)** to make cleaning easier.





DISCOVER MORE AT: [TRACTORSUPPLY.COM](https://tractorsupply.com)



MEET THE EXPERT, CODY DELUISIO:

Cody Deluisio is a poultry expert with over 28 years of experience raising chickens, from small backyard flocks to groups of up to 500 birds. He is a member of the American Bantam Association and has hands-on experience with DIY coops, pre-built kits, barns, sheds, and chicken tractors. He currently raises Silkies and ISA Browns, sharing insights from his farm and breeding work through his content channels.