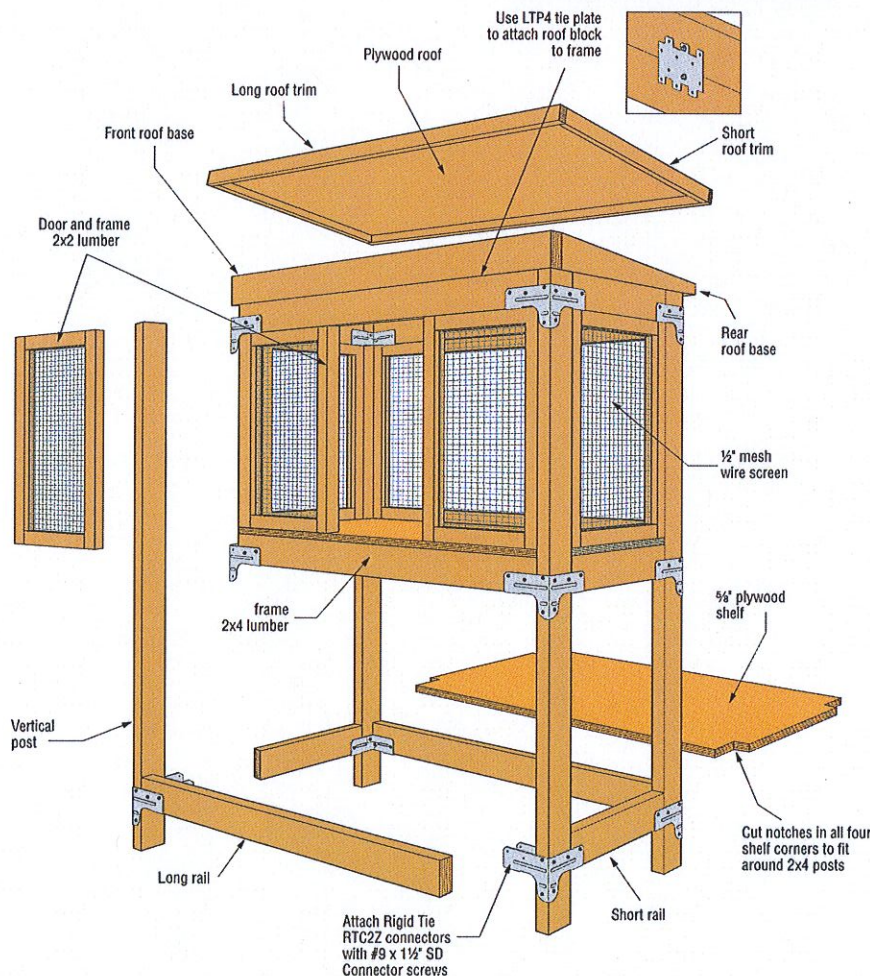
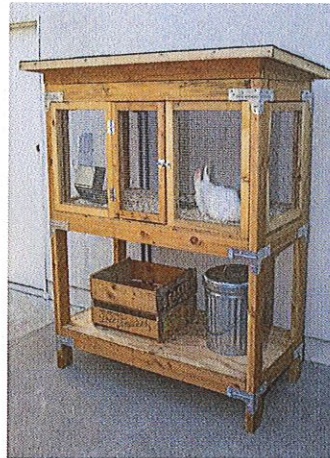


Pet Home

STRONG-TIE

DIY
TM

Whether they have fur, feathers or scales, the smallest members of your family can rest comfortably in this rock-solid pet enclosure. Construction is fast and easy with 2x4 lumber and Simpson Strong-Tie® Rigid Tie® RTC2Z connectors. The shelter can be customized to fit your needs and space by adjusting leg height, depth or width.



TOOLS NEEDED

- Saw
- Screw gun
- #2 Phillips-head bit
- 1/4" hex head socket
- Tape measure
- Clamps
- Framing square
- Straight edge
- Wire cutter
- Staple gun
- 10' x 36" wire mesh
- Roofing material
- (2) 2 1/2" pin hinges and door latch

INSTALLATION INSTRUCTIONS

1. Cut lumber to size.

Since all of your cuts are straight cuts, Simpson Strong-Tie connectors simplify building with wood. Build outside frame before cutting inside frames and door. Measure again to confirm size.

2. Assemble frame with connectors.

Mark heights and fasten connectors to vertical posts using Simpson Strong-Tie #9 x 1 1/2" Strong-Drive® SD Connector screws. Attach horizontal rails to each side of connector, using a clamp to hold the wood. Cut and notch corners of plywood shelves, using a piece of 2x4 to trace dimensions of each corner posts.

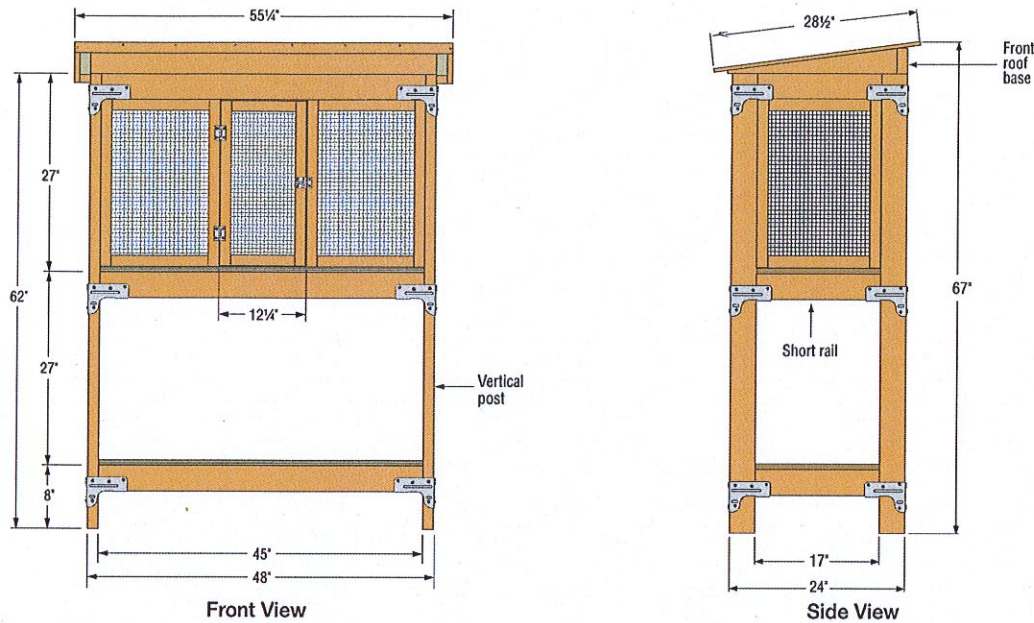
3. Build and install roof.

Attach roof trim to plywood with #8 x 2 1/2" trim-head screws. Attach roof block to top of frame with LTP4 tie plates and #9 x 1 1/2" SD screws. Use two tie plates for each long side and one for each short side. Attach plywood to roof block with #8 x 2 1/2" trim-head screws. Use roofing material of your choice (underlayment and asphalt shingles are recommended; follow manufacturer's instructions for installation).

4. Assemble and install wire screens.

Build wire screens by sandwiching chicken wire between frame pieces for back frame, side frames, front frames and door frame with #8 x 1 1/4" Deck-Drive™ DSV Wood screws. Insert wire screens into structure and attach to posts with #8 x 2 1/2" trim-head screws. Attach door screen with 2 1/2" pin hinges and add latch.

Materials and Cut Diagram



Hardware Needed

- (12) Rigid Tie® RTC2Z connectors
- (4) LTP4 lateral tie plate connectors
- (1) Box #8 x 2 1/2" trim-head wood decking screws

- (1) Box #8 x 1 1/4" Deck-Drive™ DSV wood screws
- (2) Boxes #9 x 1 1/2" Strong-Drive® SD Connector screws

Lumber Needed

- (9) Pieces 2x4 x 8'
- (3) Pieces 2x2 x 8'
- (12) Pieces 1x2 x 8'
- (2) Sheets 4' x 4' x 5/8" plywood
- (1) Sheet 4' x 8' x 5/8" plywood

Cut List

Cut from 2x4 x 8'

- (2) 22 1/2" side roof blocks → (x2)
- (6) 45" long rails → (x3)
- (4) 62" vertical posts → (x4)
- (4) 17" short rails → (x1)
- (1) 48" front roof base → (x1)
- (2) 17" short rails → (x1)

Cut from 2x2 x 8'

- (1) 45" rear roof base → (x1)

Cut from 1x2 x 8'

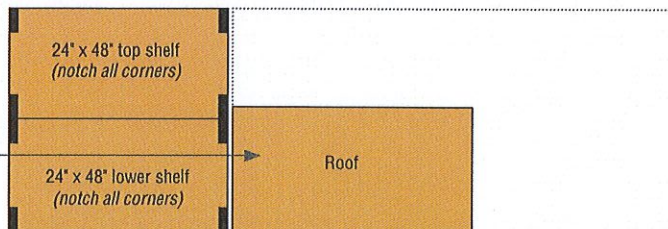
- (20) 22" front vertical frames → (x5)
- (2) 21 3/4" vertical door frames → (x1)
- (2) 14" horizontal side frames → (x1)
- (1) 13 1/4" horizontal front frames → (x1)
- (1) 9 1/4" horizontal door frame → (x1)
- (6) 14" horizontal side frames → (x1)
- (1) 9 1/4" horizontal door frame → (x1)
- (7) 13 1/4" horizontal front frames → (x1)
- (4) 42" horizontal back frames → (x2)
- (2) 9 1/2" horizontal door frames → (x2)
- (2) 55 1/2" long roof trim → (x2)
- (2) 28 1/2" short roof trim → (x2)

Cut from 4' x 4' x 5/8"

- (1) 24" x 48" top shelf (corners notched) → (x1)
- (1) 24" x 48" lower shelf (corners notched) → (x1)

Cut from 4' x 8' x 5/8"

- (1) 24" x 48" top shelf (corners notched) → (x1)



The construction plan for this project is designed to be completed by people with basic carpentry skills in standard situations. If your situation is unique, talk with someone with detailed carpentry or construction experience before starting your project. Particular attention was paid to the steps and details in this plan, but they cannot be guaranteed to be error free. Simpson Strong-Tie shall not be responsible for any possible loss, damage or injury resulting directly or indirectly from the information contained here.

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