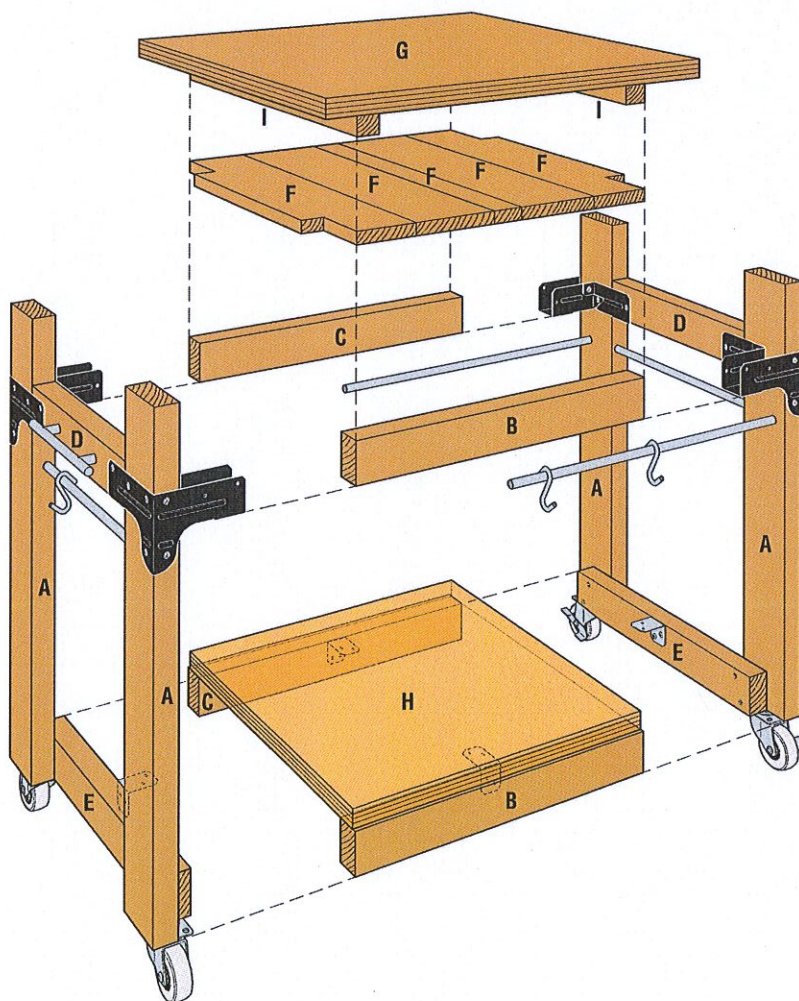


Mobile Kitchen Island

STRONG-TIE
DIY
TM

Make the most of your kitchen space with a portable kitchen counter and a place for additional storage. Construction is easy, and Simpson Strong-Tie® connectors ensure that your kitchen island is sturdy and solid.



TOOLS NEEDED

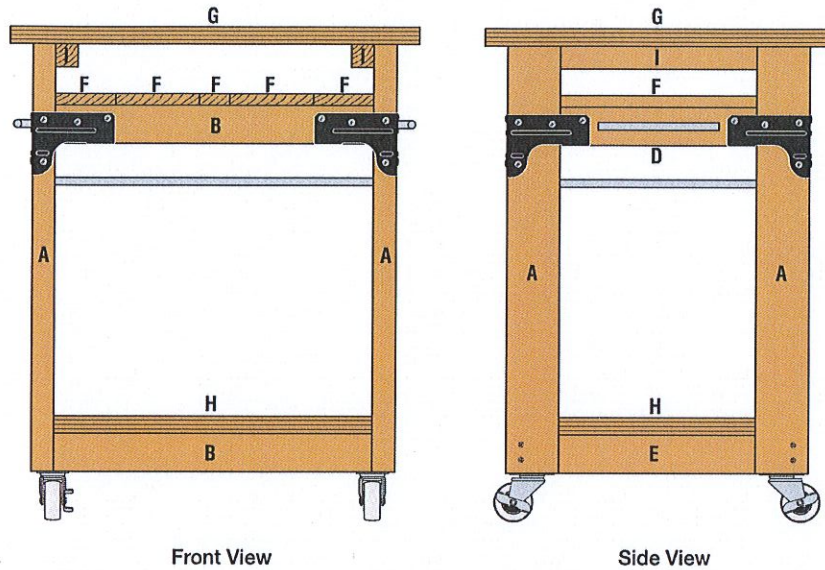
- Power saw (hand or table)
- Power drill with Phillips bit
- Pencil
- Tape measure
- Speed square
- Clamps
- Sander or sandpaper
- ½" drill bit
- Painter's tape
- Rags for applying cutting block oil
- Nail gun or hammer

INSTALLATION INSTRUCTIONS

- 1. First cut lumber to size.**
Use straight cuts.
- 2. Attach legs to connectors.**
Attach RTC2Z connector 5" down from the top of each leg (A) with SD8 screws. Position legs so their wider sides face each other.
- 3. Install hanger rod.** Using a ½" drill bit, create holes 9" from the top and 1" from the inside front edge of front leg (A). Insert metal rod and place S hooks in preferred orientation (facing in or out).
- 4. Attach rails and casters.** Attach upper front rail (B), upper back rail (C) and upper side rails (D) to RTC2Z connectors with SD8 wafer-head screws. Attach lower front rail (B), lower back rail (C) and lower side rails (E) to legs with (16) 2" Deck-Drive™ DSV Wood screws. After lower front and back rails are attached to lower side rails (E), install rolling casters to side rails, front and back rails and legs with 2" DSV screws. Use two screws per leg and one screw for the back rail and side rail.
- 5. Attach upper shelf.** Assemble widths of 1x6 lumber pieces sufficient to form the 24" (wide) x 20" (long) upper shelf (F). Begin at ends, notching end pieces to fit around legs. Measure gap in middle of shelf, and cut center piece to fill it (see blow-up illustration at left). Hammer 2" finish nails through shelf pieces into supporting rails.

(Installation Instructions continued on p. 2)

Materials and Cut Diagram



(Installation Instructions continued)

6. Attach top shelf.

Attach the top shelf (G) by centering the shelf over the island to ensure overhang is equal on opposites sides. Slide 2x2 x 20" (I) top attachment to insides of leg and clamp to top. Repeat for the other side. Flip island over and screw wood to the top with 2" DSV screws.

7. Attach bottom shelf.

Clamp bottom shelf (H) to bottom rails. Turn island over and place A21 connectors midway along each bottom rail. For each connector, screw two 1" pan-head wood screws into rail and two more into bottom of shelf.

Note: installation is easier if wood staining and painting of RTC2Z is done before assembly.

Simpson Strong-Tie® Connectors and Fasteners

- (4) Rigid Tie® RTC2Z connectors
- (1) Box Simpson Strong-Tie® SD #8 x 1 1/4" wafer-head screws (for RTC2Z connectors)
- (4) Simpson Strong-Tie A21 connectors
- (1) 1 lb. box 2" Deck-Drive™ DSV Wood screws (DSVT2R1LB)

Other Materials

- (2) 36" rolled steel tube 1/2" in diameter
- (4) 3" locking caster wheels
- (6) Packs of 1/4" x 2" S hooks (two per pack)
- (1) Bottle of cutting block oil
- (1) Small box of 2" finish nails (to attach shelf pieces to rails)
- (1) Small pack 1" pan-head wood screws (for A21 connectors)

Lumber Needed

- (2) Pieces 1x6 x 8'
- (2) Pieces 2x3 x 8'
- (1) Piece 2x4 x 10'
- (1) Piece 2x2 x 4'
- (1) Piece 2'x 6' x 1 1/8" plywood

Cut List

Cut from 1x6 x 8'

- (5) 1x6 x 20" upper shelf →

F (20")	F (20")	F (20")	F (20")
---------	---------	---------	---------

 (x1)
- | | |
|---------|--|
| F (20") | |
|---------|--|

 (x1)

Cut from 2x2 x 4'

- (2) 2x2 x 20" top attachments →

I (20")	I (20")
---------	---------

 (x1)

Cut from 2x3 x 8'

- (2) 2x3 x 21" front rails →

B (21")	B (21")	C (21")	C (21")
---------	---------	---------	---------

 (x1)
- (2) 2x3 x 17" lower side rails →

E (17")	E (17")	D (13")	D (13")
---------	---------	---------	---------

 (x1)
- (2) 2x3 x 13" upper side rails →

--	--	--	--

 (x1)

Cut from 2x4 x 10'

- (4) 2x4 28" legs →

A (28")	A (28")	A (28")	A (28")
---------	---------	---------	---------

 (x1)

Cut from plywood

- (1) 23 1/4" x 27" top shelf
- (1) 23 1/4" x 19 1/2" bottom shelf
- | | |
|-----|---------|
| 27" | 19 1/2" |
| G | H |
| 23" | 21" |
- (x1)

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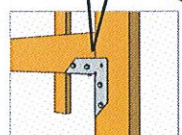
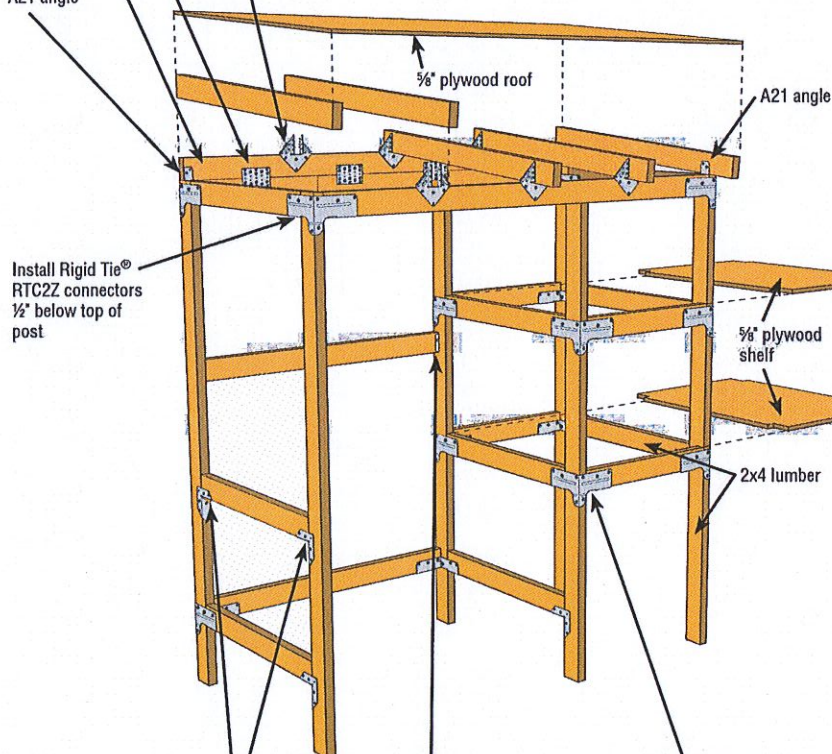
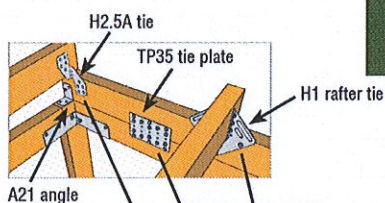
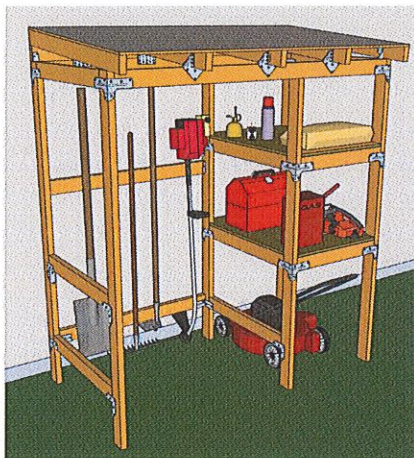
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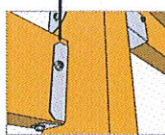
Outdoor Storage Center

STRONG-TIE
DIY

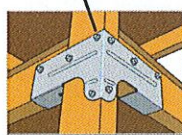
Need extra storage for your lawn mower or gardening tools and supplies? With Simpson Strong-Tie® connectors, it's easy for you to get all of your outdoor goods organized. This sturdy storage center can be completed, from start to finish, in just one day.



Rigid Tie RTA2 connector



FB24 bracket



Rigid Tie RTC2Z connector

TOOLS NEEDED

- Saw
- Screw gun
- #2 Phillips-head bit
- 1/4" hex drive socket
- Tape measure
- Clamps
- Framing square
- Hammer
- Straight edge

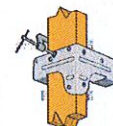
Connectors are easy to install and strong enough to support even the heaviest boxes, tools or machinery, and can be finished with paint to blend with the style of your home.

INSTALLATION INSTRUCTIONS

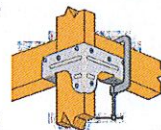
1. Cut lumber and plywood to size.

Since all of your cuts are straight cuts, Simpson Strong-Tie connectors simplify building with wood.

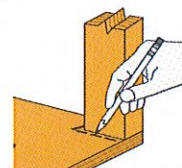
2. Install connector on vertical post. Mark height, clamp connector to post and attach with Simpson Strong-Tie #9 x 1 1/2" Strong-Drive® SD Connector screws.



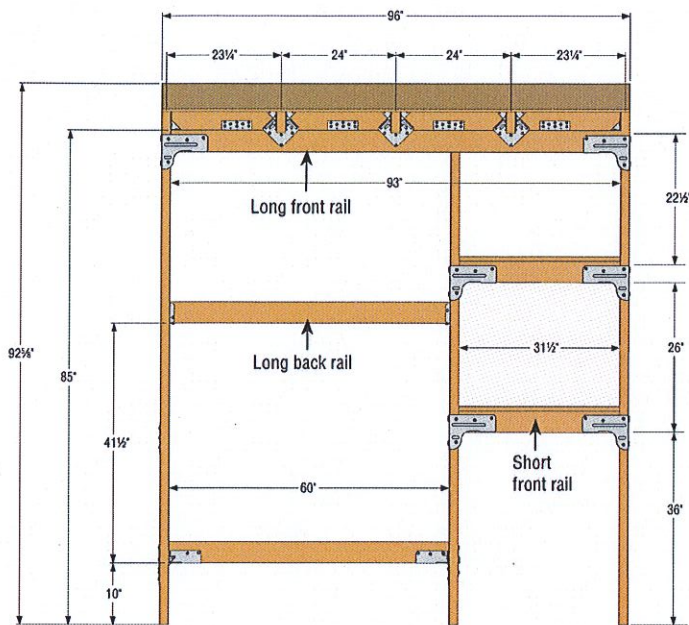
3. Connect horizontal rail on each side. Use a clamp to help hold the wood in the seat of the connector during installation.



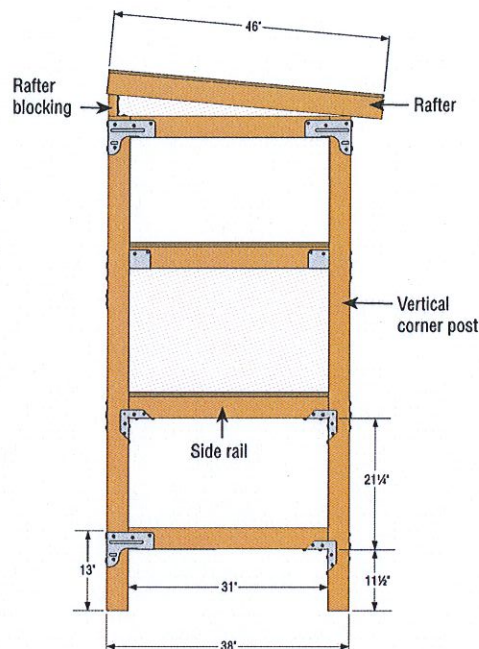
4. Notch corners of plywood shelves. Use a piece of 2x4 on each corner of the shelf, trace and cut to accommodate corner posts.



Materials and Cut Diagram



Front View



Side View

Hardware Needed

- (14) Rigid Tie® RTC2Z connectors*
- (4) TP35 tie plates*
- (6) A21 angles*
- (2) FB24Z brackets*
- (2) H2.5A ties*
- (6) H1 rafter ties*
- (4) RTA2Z connectors*
- (5) Boxes Simpson Strong-Tie® #9 x 1 1/2" Strong-Drive® SD Connector screws
- (48) #8 x 1 1/4" flat-head screws

Lumber Needed

- (18) Pieces 2x4 x 8'
- (1) 4' x 4' sheet of 5/8" plywood
- (1) 4' x 8' sheet of 5/8" plywood

Cut List

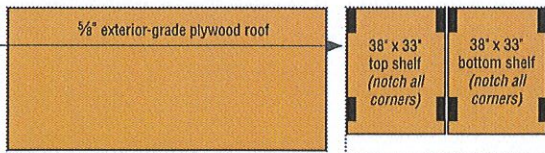
Cut from 2x4 x 8'

- | | | |
|---|---------------------|--------------|
| (6) 85" vertical corner posts | 85" | (6x) |
| (1) 96" long back rafter blocking | 96" | (1x, no cut) |
| (2) 93" long front/back top rail | 93" | (2x) |
| (2) 60" long back rail and 31" side rails | 60" 31" | (2x) |
| (4) 31 1/2" short front/back rails and (2) 31" side rails | 31 1/2" 31 1/2" 31" | (2x) |
| (5) 31" side rails (results in extra scrap rail) | 31" 31" 31" | (2x) |
| (5) 46" rafters (results in extra scrap rail) | 46" 46" | (3x) |

Cut from 4' x 8' plywood

- (1) 96" x 46" plywood roof
(2) 38" x 33" shelves

Cut roof and both shelves from (2) 4'x8' sheets of 5/8" plywood. Attach with flat-head #8 x 1 1/4" screws at 8" spacing.



Use 2x4 x 8' preservative-treated lumber, or non-treated lumber with exterior-grade stain or paint. Dimensions can be modified to fit your specific needs. Use roofing material of your choice. Underlayment and asphalt shingles are recommended. Follow manufacturer's instructions for installation.

***Corrosion Information:** We recommend using our ZMAX® galvanized product for best results on exterior projects and those using preservative-treated wood. These products have a "Z" at the end of the model number (eg. RTC2Z). ZMAX coated products provide additional corrosion resistance, which is advisable but not required, for non-structural projects like the one shown above. Visit strongtie.com/info for critical information.

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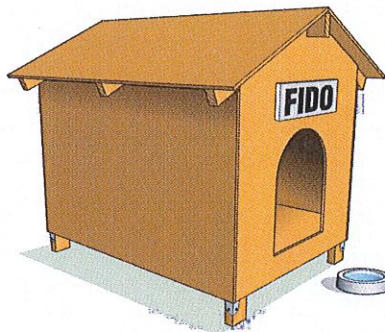
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SIMPSON
Strong-Tie

Dog House

STRONG-TIE
DIY
TM

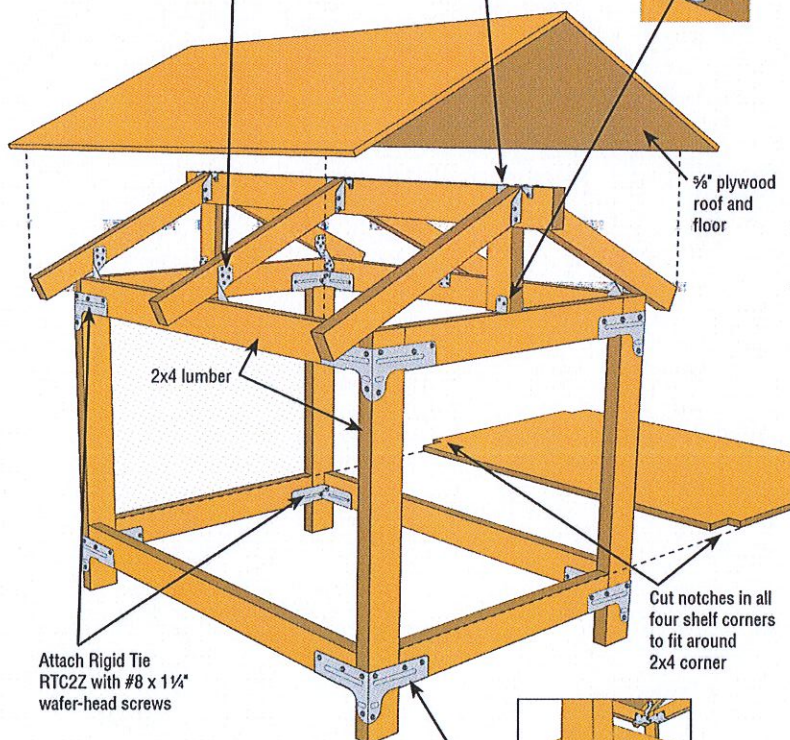
Give man's best friend a comfortable new home. Build this raised-floor pet shelter quickly with Simpson Strong-Tie® connectors, a few 2x4s, plywood, and the roofing/siding material of your choice. A DIY dog house is an economical alternative to a store-bought one, and you can custom size it for your pet.



H2.5A tie connects rafter to frame

RR Ridge Rafter connector

A21 angle



Finish with exterior-grade plywood, or vinyl siding and asphalt roofing shingles

TOOLS NEEDED

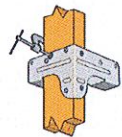
- Saw
- Screw gun
- #2 Phillips-head bit
- Tape measure
- Clamps
- Framing square
- Straight edge
- Hammer

INSTALLATION INSTRUCTIONS

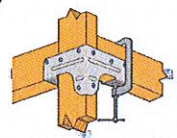
1. Cut lumber and plywood to size.

Since all of your cuts are straight cuts, Simpson Strong-Tie connectors simplify building with wood.

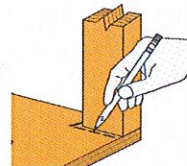
2. Install connector on vertical post. Mark height, clamp connector to post and attach with Simpson Strong-Tie #8 x 1 1/4" wafer-head screws. No predrilling is needed.



3. Connect horizontal rail on each side. Use a clamp to help hold the wood in the seat of the connector during installation.

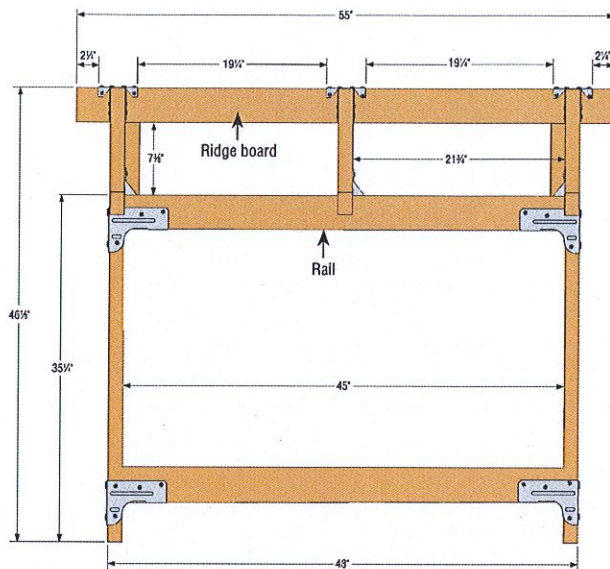


4. Notch corners of plywood shelves. Use a piece of 2x4 on each corner of the shelf, trace and cut to accommodate corner posts.

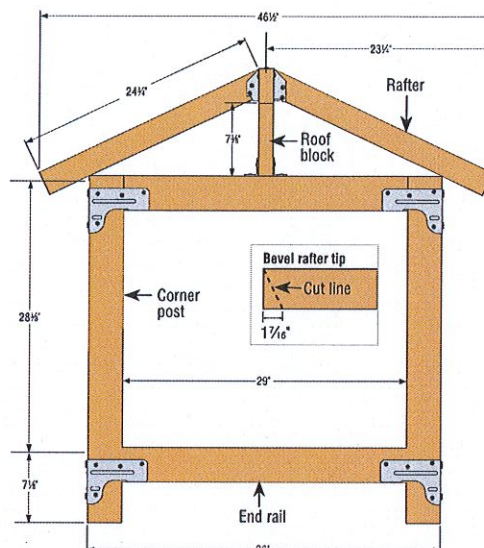


Dog House

Materials and Cut Diagram



Side View



Front View

Hardware Needed

- (8) Rigid Tie® RTC2Z connectors
- (6) RR Ridge connectors
- (6) H2.5A connectors
- (4) A21 angles
- (2) Boxes Simpson Strong-Tie® #8 x 1 1/4" wafer-head screws
- (120) #6 x 1 1/4" flat-head screws or (4d) nails

Lumber Needed

- (7) Pieces 2x4 x 8'
- (4) Pieces 4' x 8' sheet of 5/8" plywood

Cut List

Cut from 2x4 x 8'

(4) 45" rails	45"	45"	(2x)
(4) 35 1/4" corner post	35 1/4"	35 1/4"	(2x)
(3) 29" end rails	29"	29"	(1x)
(1) 55" ridge board and 29" end rail	55"	29"	(1x)
(4) 24 1/4" rafters and (2) 7 1/4" roof blocks	24 1/4"	24 1/4"	(2x)

Cut from plywood

(2) 26" x 55" roof panels	26" x 55" roof panels (2)
(1) 36" x 48" floor	36" x 48" floor (notch all corners)
(2) 46 1/8" x 36" end panels	46 1/8" x 36" end panels (2)
(2) 36" x 48" side panels	36" x 48" side panels (2)

Attach with #6 x 1 1/4" flat-head screws or (4d) nails at 8" spacing

Roof-building sequence:

1. Measure and attach the roof blocks
2. Attach rafters to the ridge board
3. Lift assembly and rest ridge board on roof blocks
4. Attach rafter to top of walls

Sheathing Tip: When sheathing over the RTC connectors a slight bulge may appear in the plywood. If this is unacceptable, it is recommended that 1/4"-1/2" furring strips be attached with finish nails along the outside of surfaces to be sheathed prior to installing the plywood.

Wood/Finish/Roofing: Before making a wood-type or finish choice, make sure it is safe for your pet. Dimensions can be modified to fit your specific needs. Use roofing material of your choice. Underlayment and asphalt shingles are recommended. Follow manufacturer's instructions for installation.

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