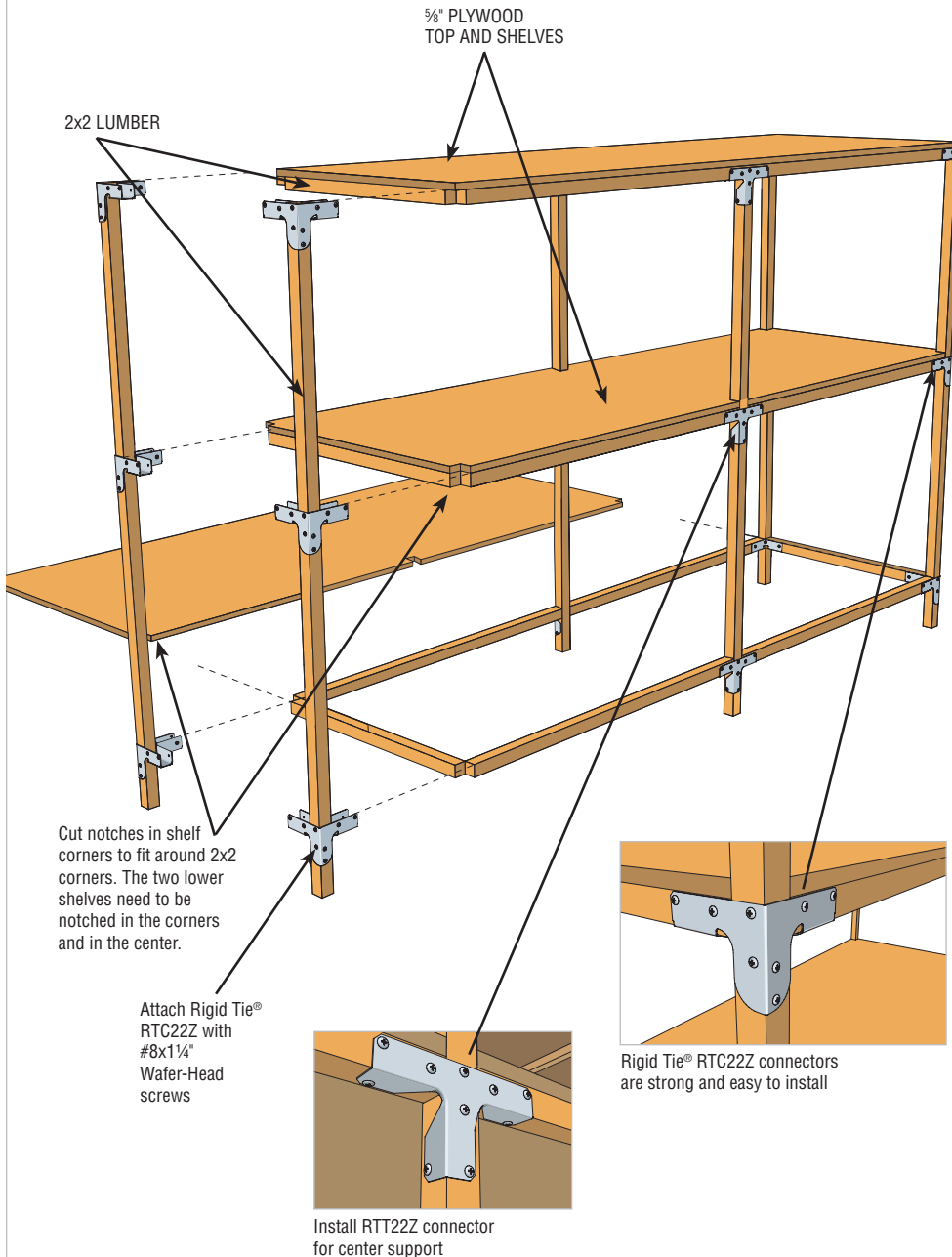


Shelving Unit

Creating this sleek shelving unit is easy with Simpson Strong-Tie® Rigid Tie® RTC22Z connectors specifically designed for 2x2 lumber. Ideal for garage, basement or play room, you can finish it with paint to add a touch of style. Try maximizing storage space by customizing to fit your closets, corners and niches.

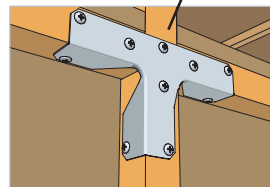


Check out our installation and building tip videos at diydoneright.com.

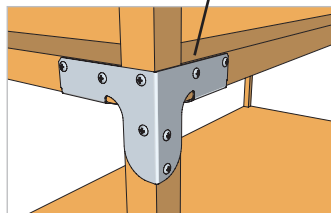


Cut notches in shelf corners to fit around 2x2 corners. The two lower shelves need to be notched in the corners and in the center.

Attach Rigid Tie® RTC22Z with #8x1 1/4" Wafer-Head screws



Install RTC22Z connector for center support



Rigid Tie® RTC22Z connectors are strong and easy to install

TOOLS YOU NEED

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

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.

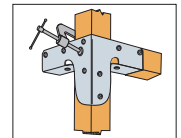
RIGID TIE® RTC22Z CONNECTOR INSTALLATION INSTRUCTIONS

1. CUT LUMBER AND PLYWOOD TO SIZE.

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

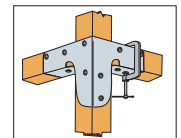
2. INSTALL CONNECTOR ON VERTICAL POST.

Mark height, clamp connector to post and attach with Simpson Strong-Tie® #8x1 1/4" Wafer-Head screws. No pre-drilling is needed.



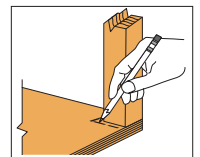
3. CONNECT HORIZONTAL RAIL ON EACH SIDE.

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 2x2 on each corner of the shelf, trace and cut to accommodate corner posts.

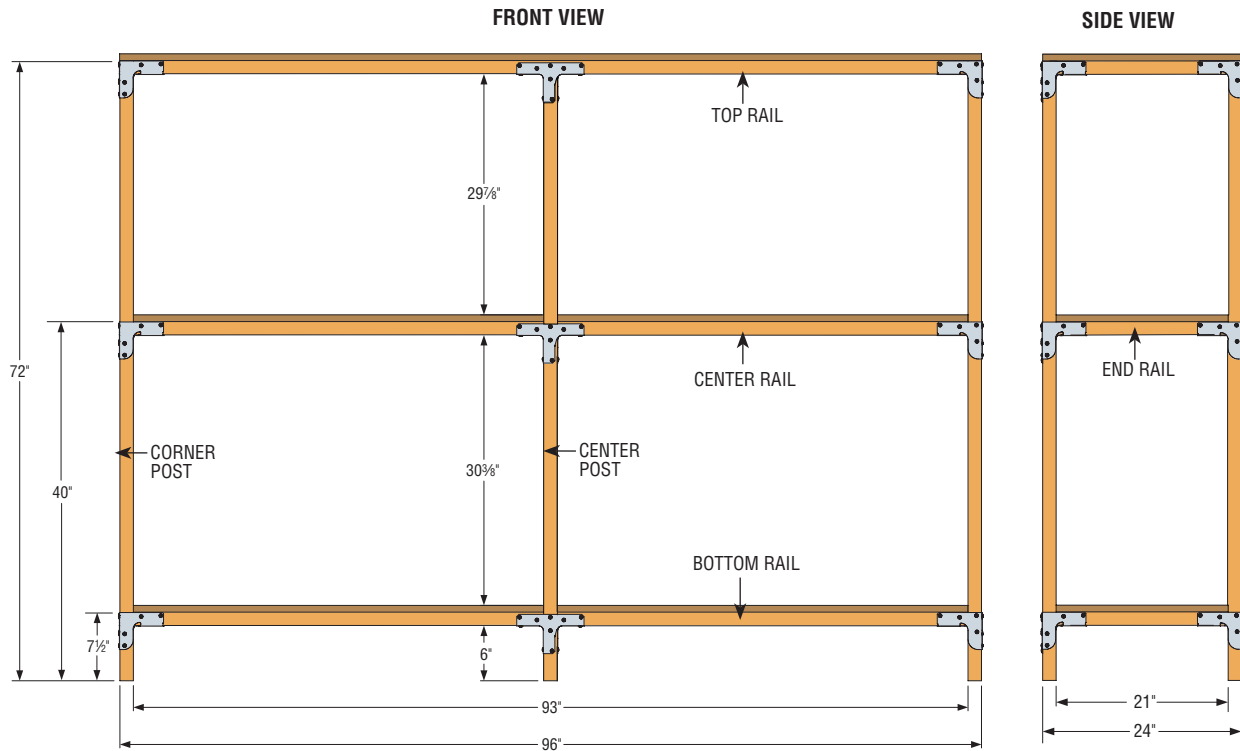




MATERIALS AND CUTTING DIAGRAM



4 ft. x 8 ft. Shelving Unit



FOR THIS PROJECT YOU WILL NEED:

LUMBER

- (12) – pieces of 2x2 8 ft. lumber
- (2) – 4 ft. x 8 ft. sheets of 3/8" plywood






SIMPSON STRONG-TIE® CONNECTORS

- (12) – Rigid Tie® RTC22Z connectors
- (6) – Rigid Tie® RTT22Z connectors

FASTENERS

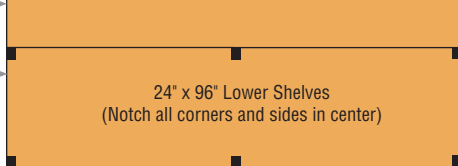
- (5) – **BOXES** Simpson Strong-Tie® #8x1 1/4" wafer-head screws
- (90) – #8x1 1/4" flat-head screws or 6d finish nails for a more finished appearance

CUT FROM 2x2 x 8' LUMBER

- (2) – 93" TOP RAILS →  (2x)
- (6) – 72" CORNER/CENTER POSTS & 21" END RAILS →   (6x)
- (8) – 45 3/4" CENTER/BOTTOM RAILS →   (4x)

CUT FROM PLYWOOD

- (1) – 24" x 96" TOP SHELF → 

- (2) – 24" x 96" LOWER SHELVES → 
- Attach with #8x1 1/4" flat-head screws or 6d finish nails at 8" spacing

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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