

# STORAGE SHELF UNIT

With ProWood® pressure-treated wood, you can build this sturdy 8 ft. x 2 ft. x 69 in. storage shelf unit for your barn, shed, basement, or garage. It features four shelves with a large bottom shelf for storing oversized items. In this project plan, you'll find a materials list, component list & key, instructions with details graphics, and a blueprint-style guide.

## PURCHASED MATERIALS:

- (15) 2" x 4" x 8' ProWood® pressure-treated boards
- (2) 1/2" x 4' x 8' ProWood® plywood board
- (1) Box of 2-1/2" #8 exterior wood screws
- (1) Box of 1-1/4" #6 exterior wood screws

### Optional:

- Exterior wood glue

## BASIC TOOLS:

- Tape measure
- Carpenter's square & level
- Countersink bit
- Circular or table saw
- Power drill & drill bits

### Optional:

- Putty knife
- Sander or sandpaper
- Exterior primer and paint/stain



### GENERAL ASSEMBLY TIPS

- Always wear gloves, a dust mask, and eye protection when sawing, sanding, or machining wood.
- Always use a circular, miter, or table saw on a clean, flat, and level surface.
- Establish a screw pattern to enhance the overall look and feel of the final assembled product.
- Pre-drill all screw holes with a drill bit to ease screw insertion and prevent wood splitting.
- Countersink all screws so the head of a countersunk screw, when placed in the hole, will sit flush with the surface of the surrounding material.
- It's recommended to cut longer pieces first.
- *Note: multiple components are going to be cut from the same board.*

### CUT LUMBER TO SIZE

ITEM NO.	NAME	QTY.	DESCRIPTION	MATERIAL
A	End Rail	8	2" x 4" x 27"	Pressure-Treated Wood
B	Post	6	2" x 4" x 68-1/2"	Pressure-Treated Wood
C	Shelf	4	1/2" x 2' x 8'	Plywood Board (Pressure-treated if used outdoors)
D	Side Rail	8	2" x 4" x 93"	Pressure-Treated Wood
E (not shown)	2-1/2 in. #8 screws	1	Box	Exterior-grade
F (not shown)	1-1/4 in. #6 screws	1	Box	Exterior-grade

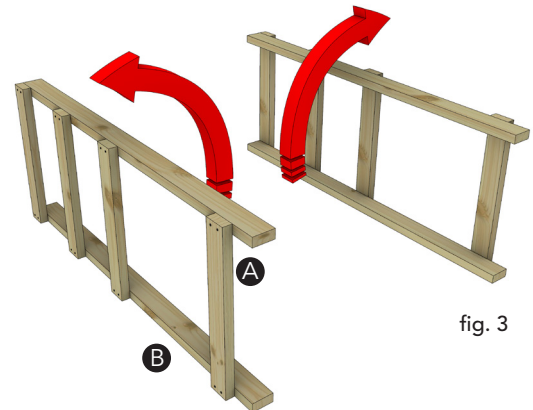
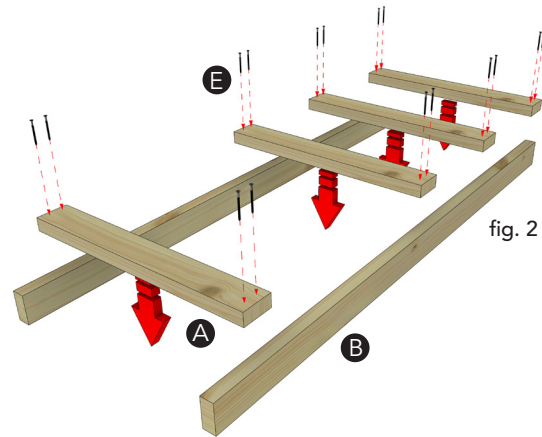


fig. 1

## STEP 1

Assemble Ladders  
See fig. 2 & 3

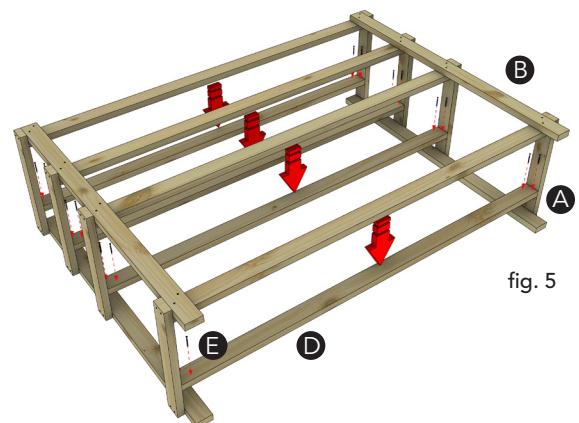
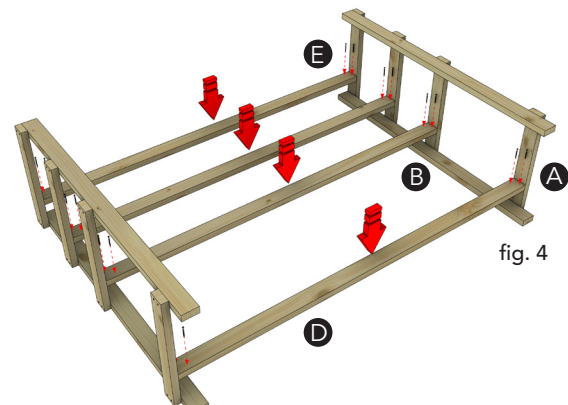
- Measure and mark at the following increments on each **B**: 7-1/2", 36-1/2", 52-1/2", and 68-1/2".
- Align **A** on **B** at those increments. Make sure outside **A** edges are flush with **B** edges.
- Attach **A** using screws (**E**).
- Repeat steps to create an additional ladder.
- Place both ladders on their sides with **A** facing outwards.



## STEP 2

Attach Front and Back Side Rails  
See fig. 4 & 5

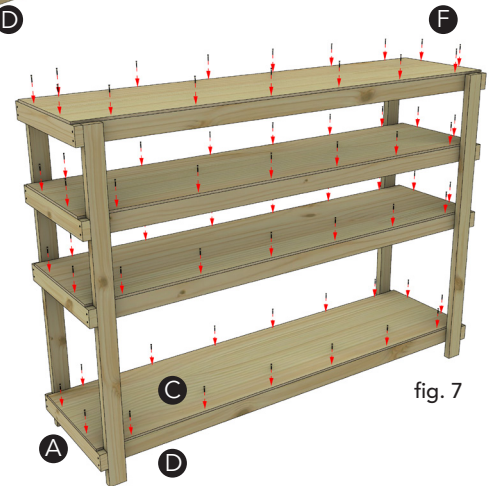
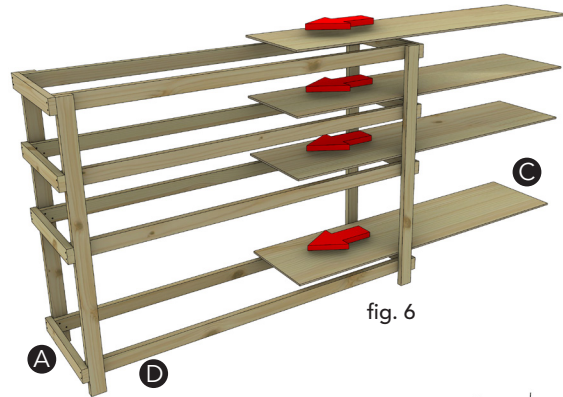
- Align **D** between each ladder and attach using screws (**E**) as shown. Repeat for remaining rails.
- Carefully flip unit over and repeat steps for the other side. Make sure **D** are installed on the inside of **B**.



### STEP 3

Attach the Shelves  
See fig. 6 & 7

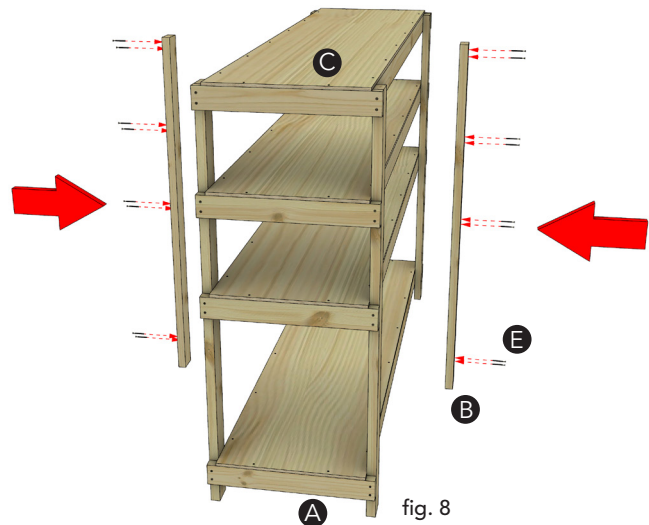
- Stand the unit up carefully.
- Starting from the bottom, slide **C** on top of the frame as shown. Make sure it sits flush with **A** and **D**.
- Attach **C** to the rails using screws (**F**) approximately 12 inches apart (as shown).



### STEP 4

Attach Front and Back Supports  
See fig. 8

- Center and attach **B** on the front and back of the unit using screws (**E**).



## STEP 6

### Optional Steps

- Use a putty knife and apply exterior wood putty to all countersunk holes.
- When the putty has dried, use a variety of sandpaper to smooth and debur all surfaces.
- Wipe all surfaces clean and apply an exterior stain and sealer, or primer and paint.

### Pro-Tips for Assembly

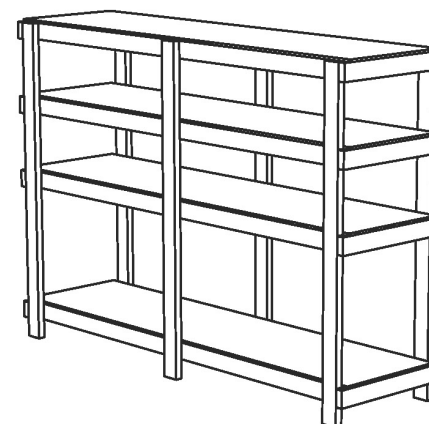
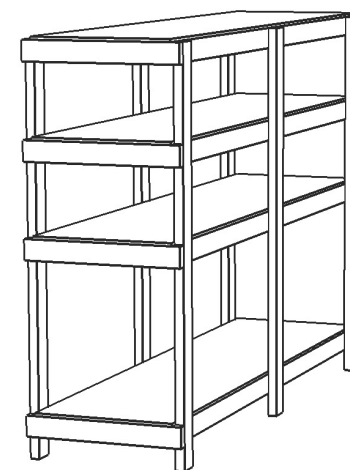
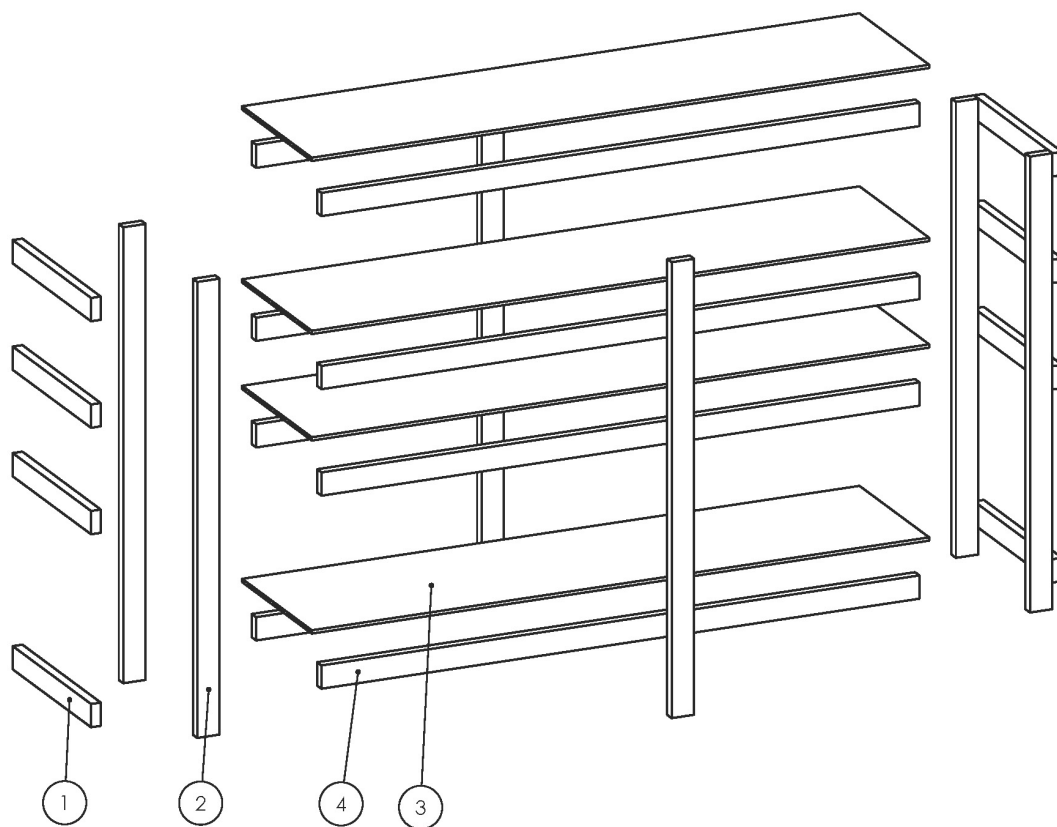
- Apply exterior wood glue before attaching pieces with screws for extra support.
- Pre-drill all screw holes to avoid splitting.
- Countersink all screws so the heads will sit flush with the surface.



fig. 9; Completed Project

# THE BLUEPRINTS

CUT LIST				
ITEM NO.	NAME	QTY.	DESCRIPTION	MATERIAL
1	END RAIL	8	1 1/2" X 3 1/2" X 27"	PT WOOD
2	POST	6	1 1/2" X 3 1/2" X 68 1/2"	PT WOOD
3	SHELF	4	1/2" X 24" X 96"	PT PLYWOOD
4	SIDE RAIL	8	1 1/2" X 3 1/2" X 93"	PT WOOD



# THE BLUEPRINTS

