

NOTICE

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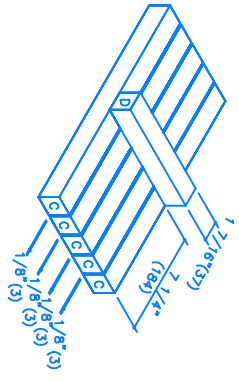
NOTE: Read all directions before beginning

Carpenters Glue should be used to reinforce all joints
 Set all nails and countersink all screws

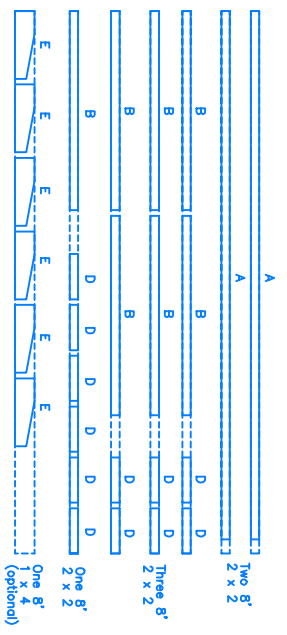
Directions

- 1) Lay out your material as outlined in the material layout (Fig 1) and then cutting diagram (Fig 2). Measure out all pieces exactly as illustrated including the letter designations in pencil. Ensure to leave a small space between cut lines to allow for the width of the saw. Before cutting, double check all measurements to ensure that they are correct. Always cut on the waste side of the line. Bevel all ends of the 2x2 slightly with sandpaper to give them a "finished look". If you are building the floor to ceiling model, measure the height of your ceiling. Pieces A should be cut to be, at the least, 2 1/2" less than this measurement.
- 2) Follow this step for the floor to ceiling model. If you are building the free standing model, proceed directly to step 3. Drill a 1/2" hole in both ends of pieces A as shown (Fig 3). Insert a 1/2" x 4" bolt in the hole to test for fit, it should fit snugly. Remove bolt, screw two nuts onto each bolt, about halfway, and glue on the casters. Reinsert the bolt and nuts into the hole and tighten the nuts. Move the end of the bolt you can adjust the length of pieces A and thereby fit piece B tightly against your ceiling.
- 3) Place both pieces A on the floor, the centers 17 3/4" apart. Blunt the ends of the finishing nails to prevent your wood from splitting. Start nails in pieces B, four 2 1/2" nails each, two for each side 1/2" from each edge and 1/2" apart, 8 3/4" from each end as shown (Fig 4). Nail the top piece B to A, with the four 2 1/2" finishing nails as shown (Fig 3). Mark three marks on each A, going 24" down each time, and starting at the top edge of B, for the first measurement. Ensure the bottom ends of A are 17 3/4" apart at the centers, and nail on the three pieces B with the six 2 1/2" nails you previously started. Turn the unit over, and repeat for the other pieces B.
- 4) Line pieces C up with the ends flush and 1/8" separating time. Place piece D on top of the pieces C as shown (Fig 5). 7 1/4" from either end, and nail into pieces C with 2 1/2" finishing nails. You may want to pre-drill holes for the nails to prevent the material from splitting. Repeat to build the other eleven shelves.

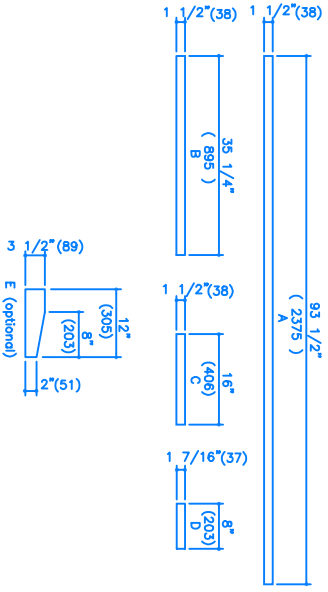
OTHER



**SHELF DETAIL
FIGURE 5**



**MATERIAL LAYOUT
FIGURE 1**



**CUTTING DIAGRAM
FIGURE 2**

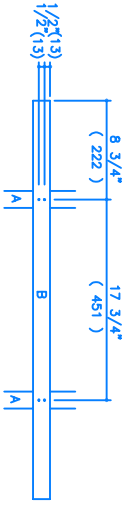
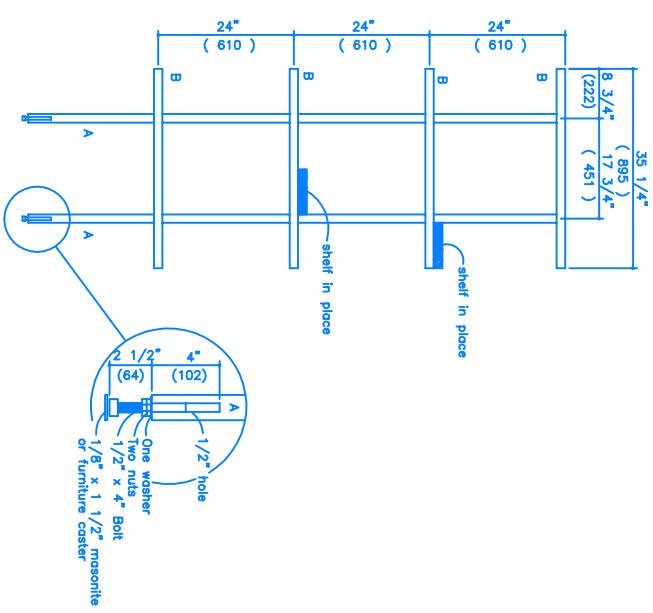


FIGURE 4



**ELEVATION
FIGURE 3**

**MATERIALS LIST
(FLOOR TO CEILING MODEL)**

- Two 1/2" x 4" NC bolts
- Two 1/2" washers
- Four 1/2" nuts
- Two 1 1/2" round pieces masonry or furniture casters

**MATERIALS LIST
(FLOOR STANDING MODEL)**

- Approx. twenty five 2 1/2" #8 finished screws
- One 7" 1x4 (3/4" x 3 1/2")
- Six nail glides

**MATERIALS LIST
(GENERAL)**

- Eighteen 8" 2x2's (1 1/2" x 1 1/2")
- Approx. 1 lb. 2 1/2" finishing nails
- Stain and varnish, or oil
- Carpenters glue
- Sandpaper