

PLAN FOR DVD SHELF

**Plan Drawn by
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at**

<http://gbphotodidactical.ca>

Size is 4' feet wide

by 6' feet and 3/4" in. high.

**It can take 80 DVD per Shelf,
and there is 8 Shelves
for a Total Capacity of
640 DVD**

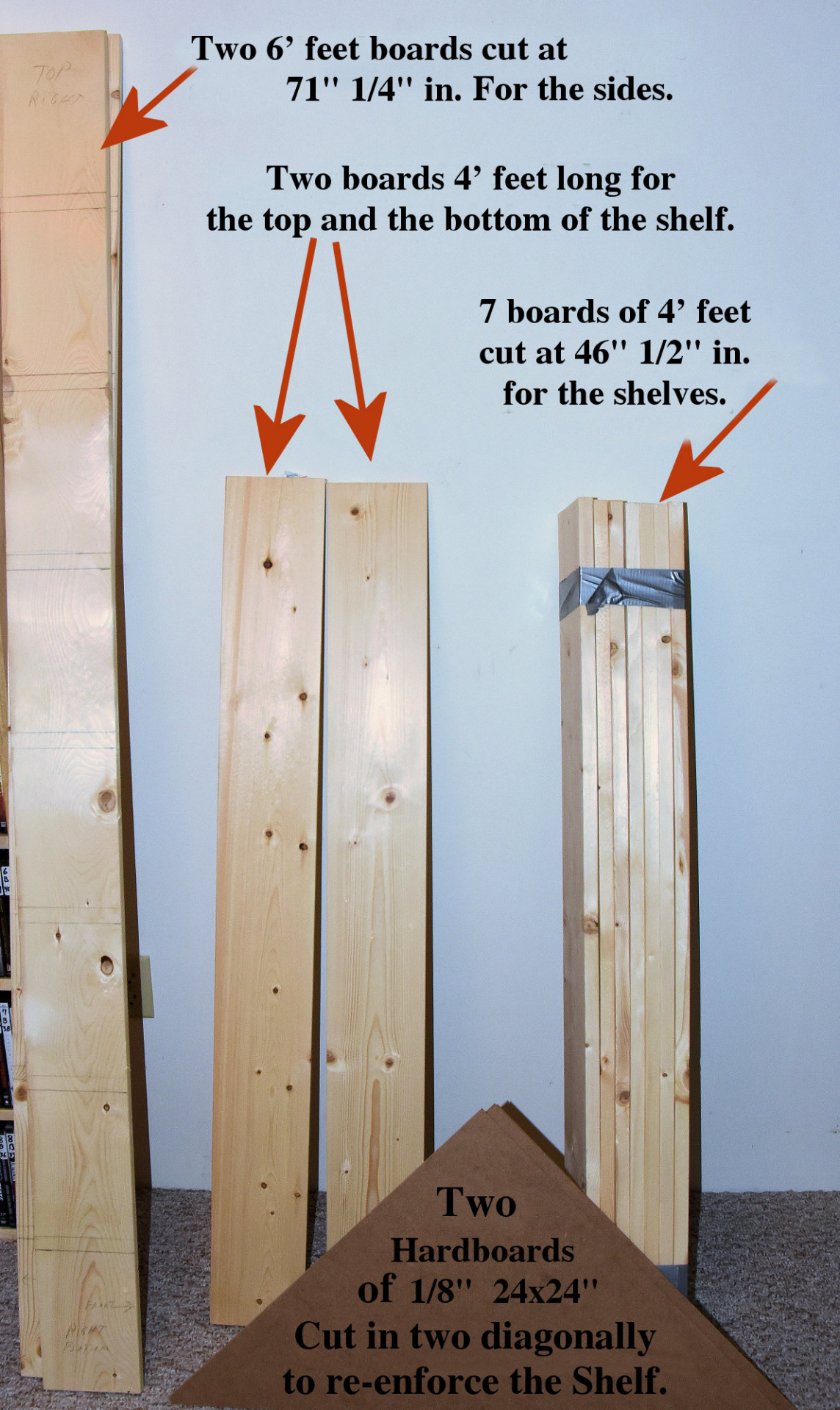
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**Two 6' feet boards cut at
71" 1/4" in. For the sides.**

**Two boards 4' feet long for
the top and the bottom of the shelf.**

**7 boards of 4' feet
cut at 46" 1/2" in.
for the shelves.**

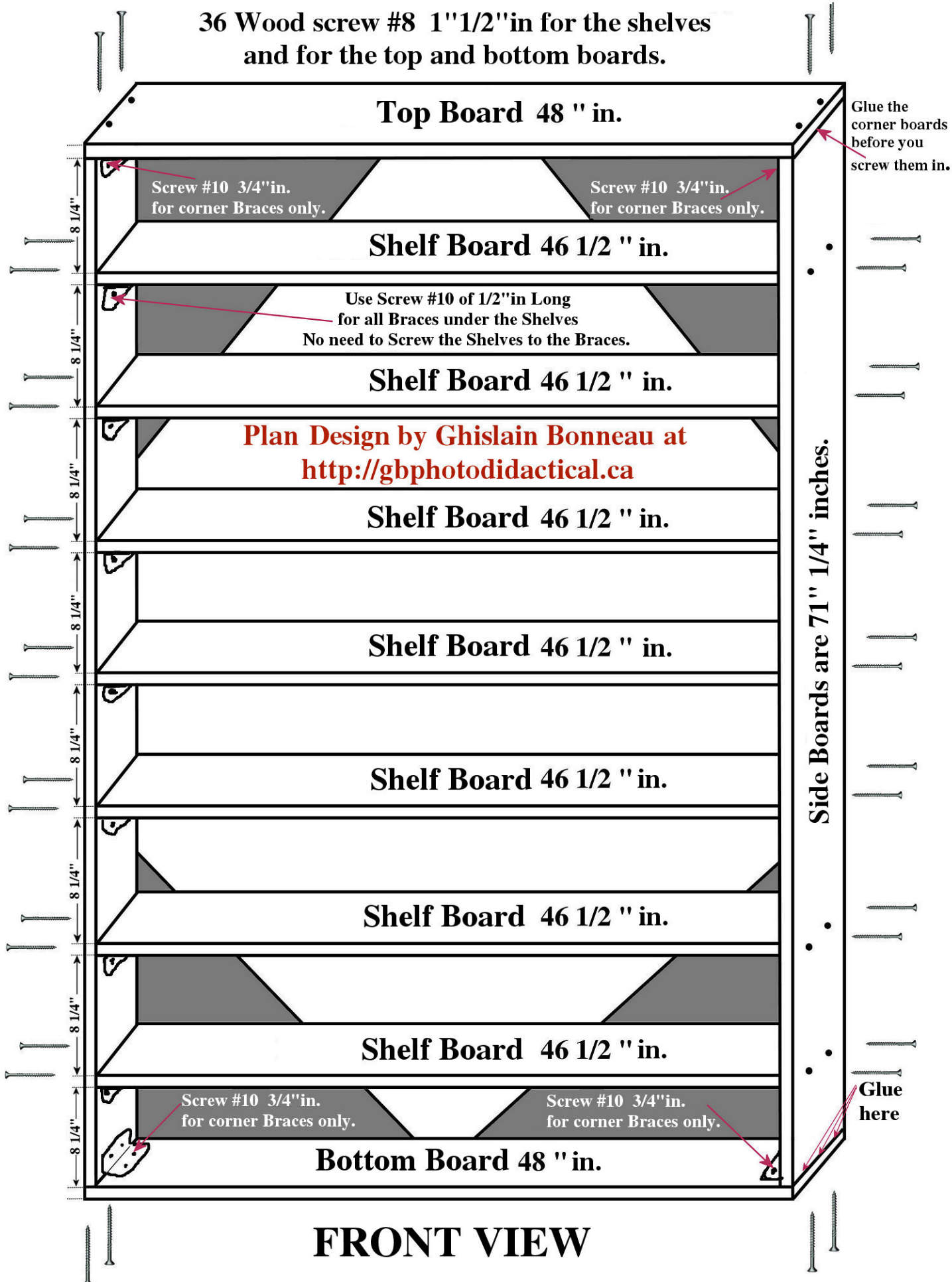
**Two
Hardboards
of 1/8" 24x24"
Cut in two diagonally
to re-enforce the Shelf.**



18 Braces of 3/4" x 1"1/2" in or 36 if you use two. See photo on page 5.

36 Wood screw #8 1"1/2" in for the shelves
and for the top and bottom boards.

Use Knotty Pine, they are the cheapest boards available.



All boards are 5" 1/2" wide and 3/4" in. thick. (actually called 1x6 at the store)
Space between all Shelves are all 8"1/4" inches.

PROCEDURE;

1- Choose boards that are straight with less Knots as possible and if there is knots on the side of the board, put that side in the back of the Shelf and not in the front. Cut all boards to the right lengths. Use Knotty Pine, it is the cheapest wood around.

2-First measure from the bottom of the side boards and make lines to where you will place the Metal Braces. The first measure will be 8" 1/4" in. to the top of the first Brace and from this first Brace you must always add 3/4" in. for the board space will use and then add the 8"1/4" above that for the top of the next Brace and so on for all the other Braces. Always account for the thickness of the boards.

3- Then screw all the Braces in place on both side boards with Wood/Metal screws #10 3/4" inches long. Also screw Braces at the bottom and at the top of the side boards to join the top and bottom boards to the side boards later on.

4- After all the Braces are in place it is time to assemble the top and bottom boards with the side boards. To do so first drill two holes on the top board about 3/8" in. from the end and do the other end also. Do the same for the bottom board. Place some wood glue and screw the top and bottom boards to the side boards with the #8 1"1/2" in. wood screws. It is easier to do this operation if the boards are all on the floor or a flat surface. Be sure that all the boards are flush with the other board. Screw immediately the top and bottom braces that attach to the side boards with Wood/Metal screws #10 3/4" in. Now all the boards are secure and you can stand the shelf up to do the next step.

5- To screw the shelves, place one on the braces and line up the back of the board to be flush with the back of the side boards then drill the holes from the side of the side boards to drill 3/8" in from the brace and screw the board of the shelf in place. No need to screw the board on the braces, but only from the sides. The holes to screw all the shelves can be drilled in step #2 after marking all the measurements.

6- Press down firmly on each board as you drill and screw them with the side boards.

7- When all the shelf boards are screwed in place from the sides put the shelf back down on the floor so that the back of the shelf will face upward. Now place one of the triangles on the top corner and put it flush with the top and the side of the Shelf, this is what will make your shelf square because if the top and side boards fit flush with the triangle that means that the square is good and you can start to put the screws in to keep in place. Do the other board on the top the same way and then the two bottom triangle. Now your Shelf should be square and solid.

Your shelf is now completed and it is time to screw some small braces on the top board to secure the Shelf on the wall. But you can't do this until you place the shelf in place where you want it to be and find where the 2x4 are in the wall. See photo on page 9.

FURNITURE BRACES
ÉQUERRES POUR MOBILIER

EVERBILT



FURNITURE BRACE
ÉQUERRE POUR MOBILIER

3/4 in x 2 1/2 in
19 mm x 63 mm



Those are the only one I could find
at my store and I thought they were
too small, so I used two instead of just one.



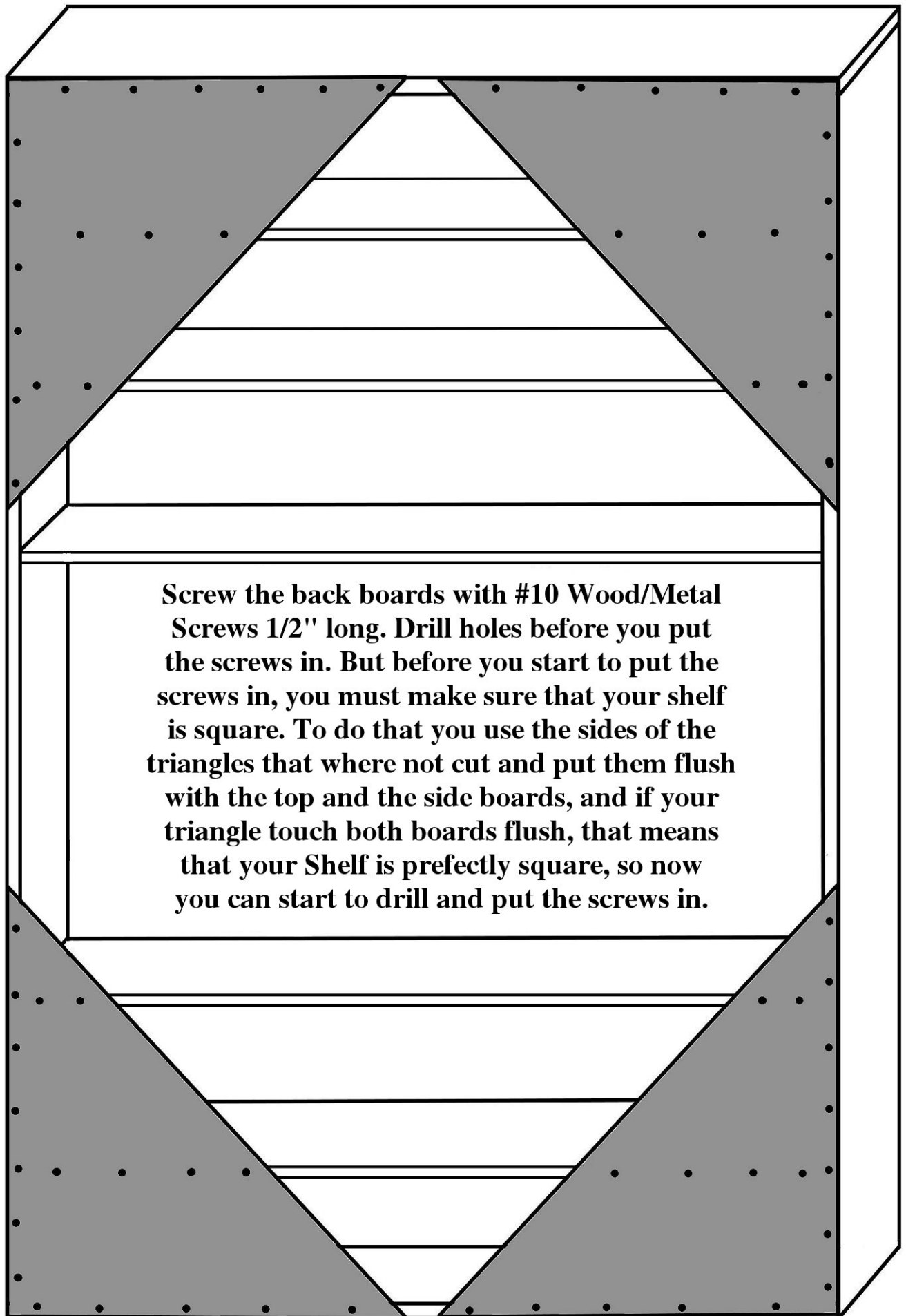


Left
Right
Bottom



REAR VIEW

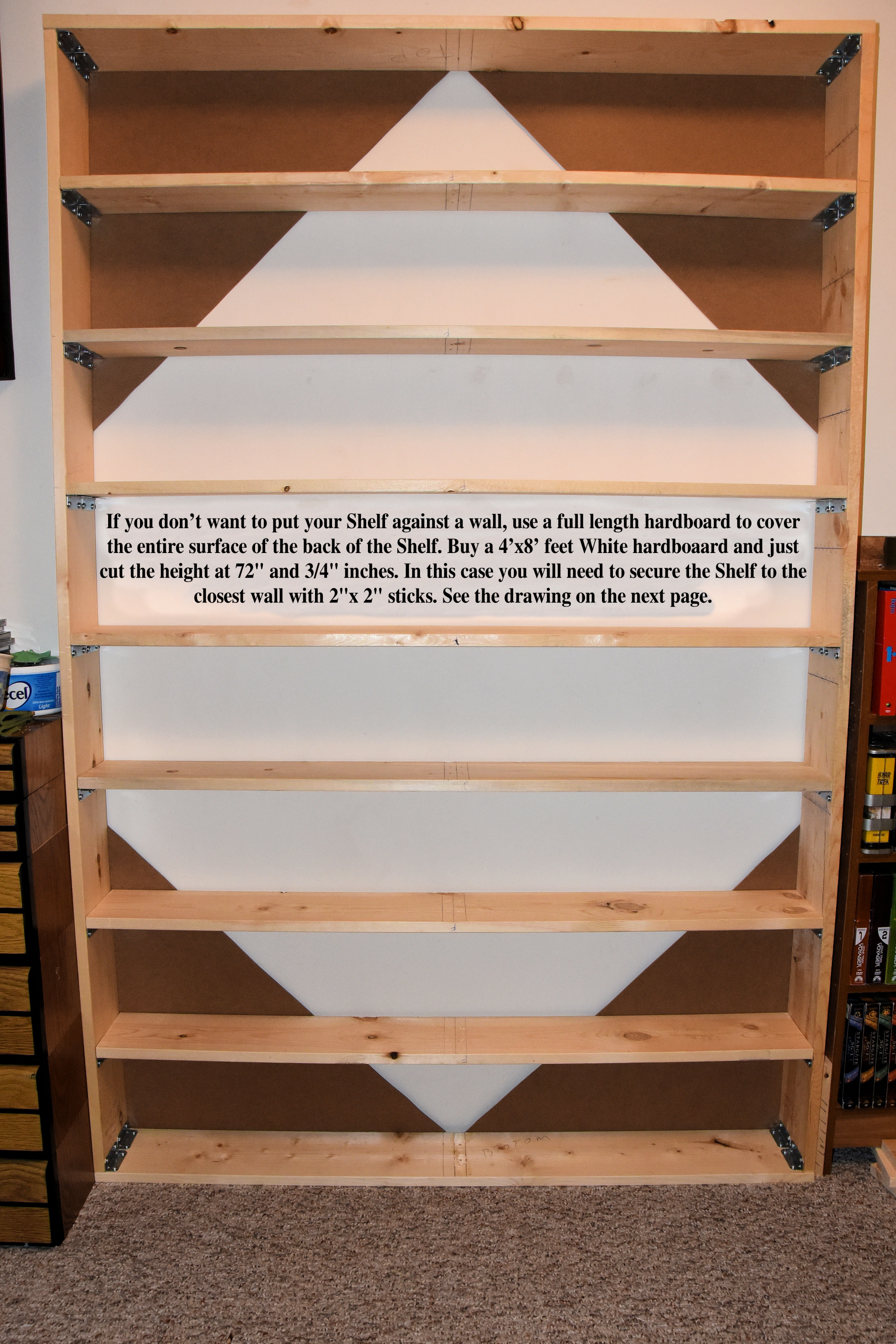
If you want to cover the entire back of the Shelf, you can use a White Hardboard 1/8" thick 4' by 8' feet and just cut the height to 72" and 3/4" inches and it will cover the entire back of the Shelf.



The back boards are made using two hardboards 1/8" thick that are 24" by 24" inches in size and cut diagonally from corner to corner to make two triangles.

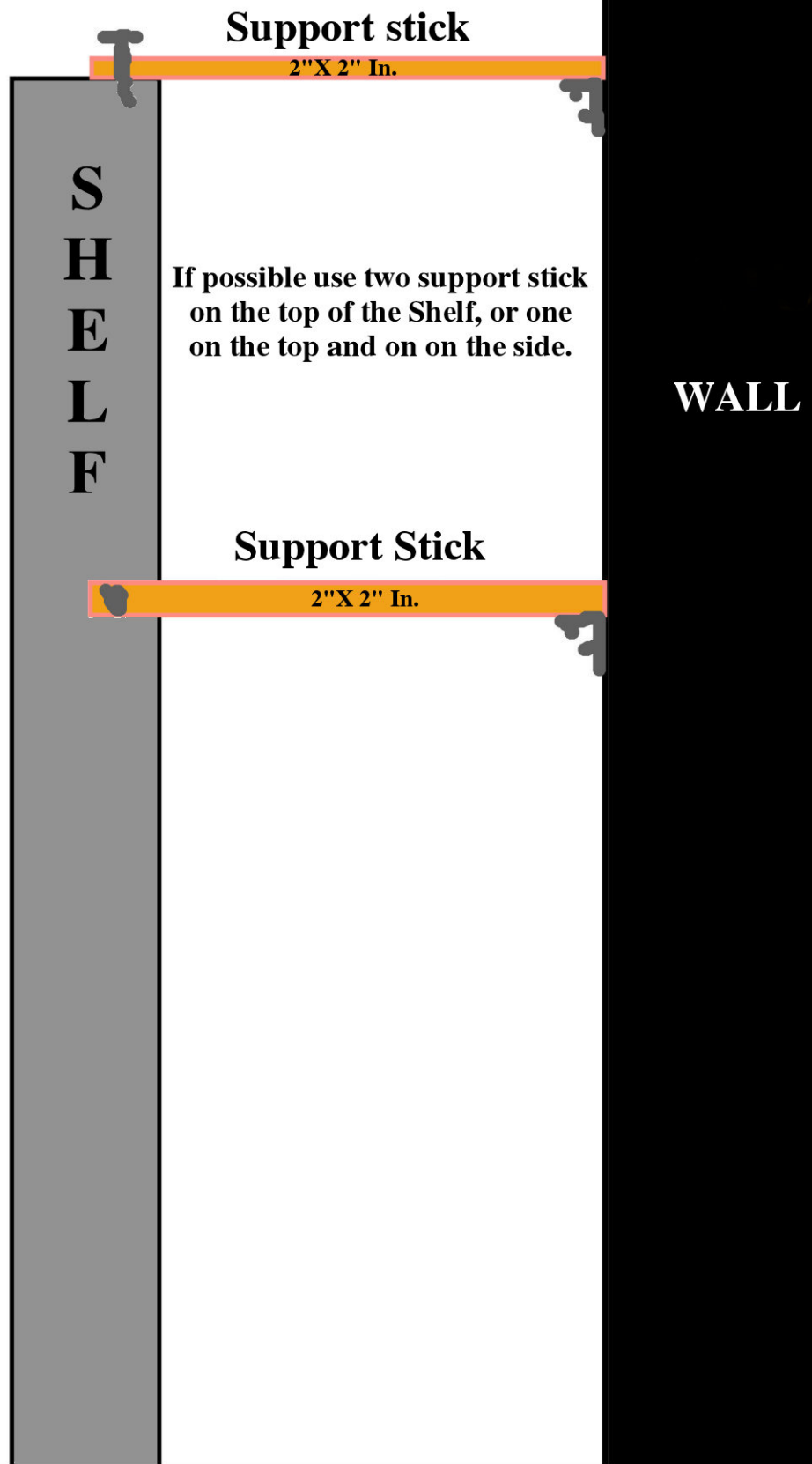
**Secure your Shelf against a wall using two small braces.
Find where the 2x4 are and screw on them, the 2x4
are placed at every 16" inches.**





If you don't want to put your Shelf against a wall, use a full length hardboard to cover the entire surface of the back of the Shelf. Buy a 4'x8' feet White hardboard and just cut the height at 72" and 3/4" inches. In this case you will need to secure the Shelf to the closest wall with 2"x 2" sticks. See the drawing on the next page.

If installed far from the Wall



Support stick

2"X 2" In.

**S
H
E
L
F**

If possible use two support stick
on the top of the Shelf, or one
on the top and on on the side.

Support Stick

2"X 2" In.

WALL

FLOOR

