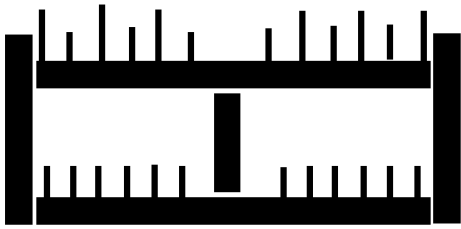


Materials Needed:

- 1 Top Board: 96x11 inches, 1.5 inches thick (Lowe's item number 432532)
- 1 Bottom Board: 96x11 inches, 1.5 inches thick (Lowe's item number 432532)
- 1 Middle Board: 37.5x11 inches, 1.5 inches thick (Lowe's item number 131193)
- 2 Side Boards each: 48x11.5 inches, 0.75 inches thick (Lowe's item number 131193)
- 23 Dowels: (Lowe's item number 19383 for 5/8 in. dowels OR 19382 for 1/2 in. dowels)
 - 18 Tall Dowels (Only Top Section- Back row): 12.1 in. tall (CUT dowels to this size)
 - 90 Small Dowels (Bottom and Top Section): 8.35 in. tall (CUT dowels to this size)
- 12 Screws: Box of 86 2.5 inch screws (Lowe's item number 17365)
- Wood Glue: Titebond, 48 ounces (Lowe's item number 41217)
- Paint (Optional)



Step by Step Instructions:

- Step 1:** Drill dowel holes in top and bottom boards.
 - Each board is 96x11 inches, 1.5 inches thick.
 - Drill down 1.1 inches.
 - Drill size: We used 5/8-inch drill, but depends on diameter of dowel.
- Step 1 a:** Mark on the top and bottom boards where middle board goes (it belongs at the center of top and bottom boards). Board size: 37.5x11 inches, 1.5 inches thick.
- Step 2:** Drill 54 holes, 3 rows by 18 columns.
 - Do this for top and bottom boards.
- Step 3:** Take 5 dowels (48 inches long) and cut into 18 tall dowels (12.1 inches).
 - Cut the remaining 18 dowels (48 inches long) into 90 small dowels (8.35 inches).
- Step 4:** For only the top board glue and place 18 tall dowels in the back row (closest to wall).
- Step 5:** Now place the remaining 90 small dowels with glue in both the top and bottom boards.
- Step 6:** Wait for glue to dry.
- Step 7:** Lay top and bottom board on side and line up middle board in middle of top and bottom boards.
- Step 8:** Drill a total of 4 screws, 2 in top and 2 in bottom.
- Step 9:** Now, line up one side board to outer edge.
 - Drill 2 screws into bottom and 2 screws into top boards.
 - Repeat step 9 for other side.
- Step 10:** Stand structure up and you are all done!