



# Plant Stand

Canadian Living February 1997

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Photography by Per Kristiansen*

Finished stand is approx 48 in high x 48 in wide x 15-3/4 in deep.

#### YOU NEED:

- One 4- x 4-ft sheet of 3/4-in birch plywood
- Five 8-ft No. 1 pine 2x2s
- Two 5-in carriage bolts, 1/4 in in diameter
- Two hex nuts, 1/4 in in diameter
- Twenty-four 2-1/2-in No. 8 wood screws
- Twelve 1-1/2-in No. 8 wood screws
- Three 4-ft-long double-bulb fluorescent light fixtures with hanging chains
- 6 cool white 40-watt fluorescent bulbs
- Six 1-1/2-in cup hooks
- Drill and 1/4-in bit (for both sizes of screws) and 1/2-in bit (for bolts)
- Robertson screwdriver to fit wood screws
- Measuring tape
- Mitre box and saw, or table saw\*

\*If you do not have access to a mitre saw or table saw, ask your lumber retailer to cut the pieces listed below (some suppliers may do so for a nominal fee).

#### CUTTING LIST:

- Birch plywood
- Shelves: three 15-3/4- x 48-in sheets
- Pine 2x2s
- Side supports: four 48-in lengths
- Side braces: eight 15-3/4-in lengths
- Back cross brace: one 72-in length with a 45-degree angle cut at each end (see cutting diagram)
- Corner braces: four 10-in lengths, each with a 45-degree angle cut at each end (see cutting diagram)

#### TO ASSEMBLE:

- Refer to diagrams throughout.
1. Lay 2 side supports on work surface so outside edges are parallel to one another and 15-3/4 in apart. Across side supports and at right angles to them, place 1 side brace at each end, then evenly space\*\* 2 side braces between first pair. Drill, then fasten, each end of each side brace in place with one 2-1/2-in screw to complete plant-stand side. Repeat entire process to complete second side.
  2. With side braces facing in, set plant-stand sides upright and 48 in apart. On bottom side braces, fit 1 shelf between sides. Drill, then fasten, each end of shelf to corresponding side brace with two 1-1/2-in screws. Working up, fasten remaining 2 shelves in place in same manner.
  3. Set stand on its front face, then square it up as follows: With tape measure taut, measure from 1 bottom corner diagonally to top corner, then

repeat with remaining 2 corners; adjust stand until both measurements are equal. When frame of stand is square, lay back cross brace in place diagonally across back of frame as shown. At each end, drill right through brace and side support, then fasten in place with bolt and nut.

4. Set stand upright. At each front corner, fit 1 corner brace so 1 angled end fits against back-facing surface of side support and other end is flush with top (or bottom) of plant-stand side. Drill, then fasten, each end of each corner brace in place with one 2-1/2-in screw.
5. Centre and screw in 1 cup hook along underside of each of the top 3 side braces on each side. Attach chains to hooks to hang fluorescent fixtures.

#### \*\*Designer's Tip:

- With evenly spaced side braces/shelves you can accommodate both seedlings and growing plants by adjusting chain lengths to move fluorescent fixtures lower and closer to, or higher and farther from, plant trays.
- Alternatively, you can adjust spacing of the side braces at this point in the assembly to create a variety of shelf heights. From bottom to top, work up from deep to shallow spaces between side braces/shelves. Ensure that narrowest (top space) will accommodate depth of fixture and height of seedlings in their trays.

