

Plant Stand Project:

This document details the design specifications, materials, and cutting instructions for a heavy-duty plant stand.

I. Component Cut List

All cuts are based on standard untreated 2x4 lumber (actual size 1.5" x 3.5") and 1x6 cedar pickets (actual size approx. 0.6" x 5.5"). Untreated lumber should be sealed if used outdoors. Treated lumber can be used.

Component	Material	Qty	Cut Length	Notes
Part A (Legs)	2x4 Untreated	4	48"	Main vertical uprights.
Part B (Width Rails)	2x4 Untreated	6	22"	Butted to 3.5" leg face (Total Width: 25").
Part C (Depth Rails)	2x4 Untreated	6	8"	Butted to 1.5" leg face (Total Depth: 15").
Shelf Slats	1x6 Cedar Picket	12	16"	4 boards per shelf; run front-to-back.

II. Materials & Estimated Pricing (Abingdon, VA)

Estimates based on local retail prices for untreated whitewood and cedar.

Item	Quantity	Unit Price	Total
2x4 x 8' Untreated Whitewood Stud	5	\$3.58	\$17.90
1x6 x 6' Cedar Fence Picket	3	\$4.25	\$12.75

Item	Quantity	Unit Price	Total
3" Exterior Deck Screws (1lb)	1	\$11.47	\$11.47
1-1/4" Trim Screws (for Cedar)	1	\$7.50	\$7.50
Subtotal			\$49.62
VA Sales Tax (5.3%)			\$2.63
Project Total			\$52.25

III. Assembly & Technical Notes

- **Frame Geometry:** Part C (12" rail) is butted against the 1.5" face of the Part A legs. Combined with the two 1.5" legs, the total exterior depth is exactly 15". For additional strength add titebond 3 wood glue to joint faces prior to screwing butt joint together
- **Shelving Overhang:** Cedar slats are cut to 16". When centered over the 15" deep frame, they provide a 1/2" overhang on both the front and back.
- **Shelf Layout:** Run 4 slats per shelf from front to back. With 1x6 pickets (5.5" wide), 4 slats will cover 22" of width, perfectly matching the Part B rail length. Pre-drill cedar to prevent cracking
- **Ground Clearance:** Bottom shelf should be mounted with 11.5" clearance from the floor.
- **Fasteners:** Pre-drill all holes. Use 3" screws for the 2x4 frame and 1-1/4" trim screws for the cedar slats.