

Firewood Rack

Automated woodworking cut list, grouped board cutting diagrams, and step-by-step 3D assembly guide.

Specifications

Overall Dimensions	48" W × 16" D × 48" H
Total Parts Count	12 pieces (3 unique sizes)
Dimensional Stock Lumber	5 boards (3 unique cutting patterns)
Wood Screws	32 screws

3D Project Overview

benchbuild.app

Cut List Summary

Identical pieces are grouped together. Check off each row as you cut your lumber and sheet goods.

Qty	Material	Cut Dimensions	Miter / Angle Cuts	Piece Names
4×	2x4	48"	Square (90°)	4× Uprights
4×	2x4	16"	Square (90°)	4× Cross Rails
4×	2x4	45"	Square (90°)	2× Runners · 2× Rails

Board Cutting Diagrams

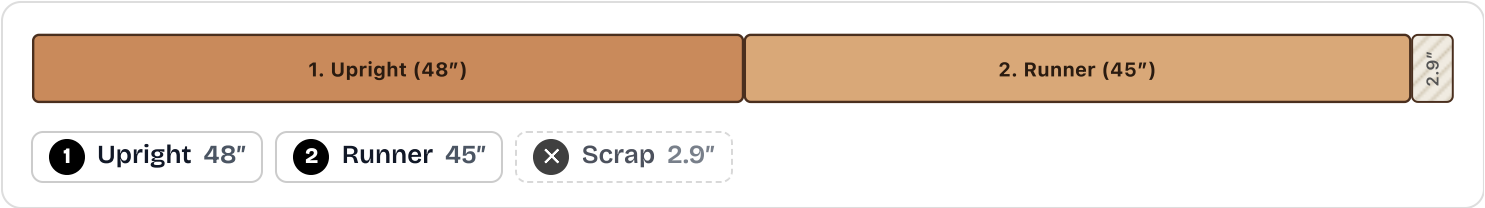
Boards with identical cuts are grouped with a multiplier badge (e.g., 5× **Boards**) so you only read each cutting layout once. Includes 1/8" blade kerf.

2× Boards

2x4 (8' / 96" stock)

2 cuts/board • 93.1" used • 2.9" scrap

Cut this pattern **2 times** (2 boards total). Makes: Upright Front + Runner Front, Upright Back + Runner Back

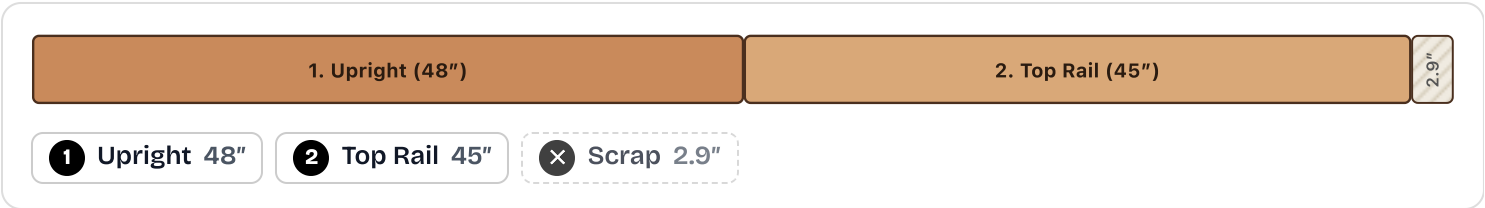


2× Boards

2x4 (8' / 96" stock)

2 cuts/board • 93.1" used • 2.9" scrap

Cut this pattern **2 times** (2 boards total). Makes: Upright Front + Top Rail Front, Upright Back + Top Rail Back

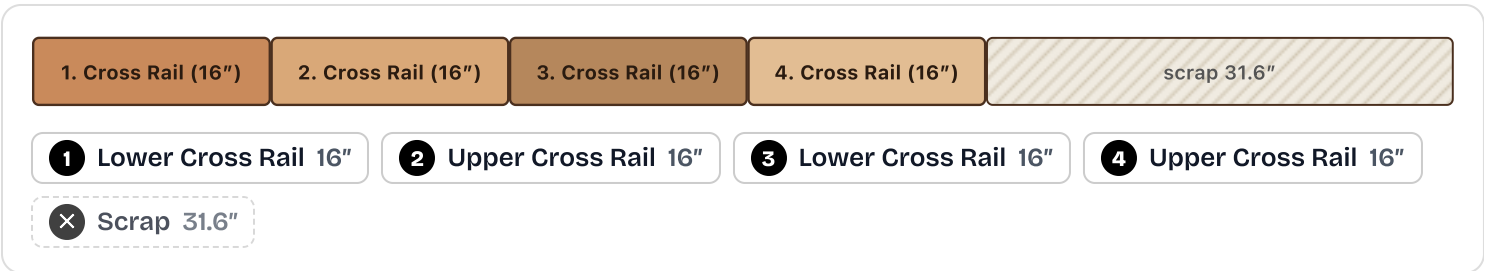


1× Board

2x4 (8' / 96" stock)

4 cuts/board • 64.4" used • 31.6" scrap

Produces: Lower Cross Rail + Upper Cross Rail + Lower Cross Rail + Upper Cross Rail



Step-by-Step Assembly Guide

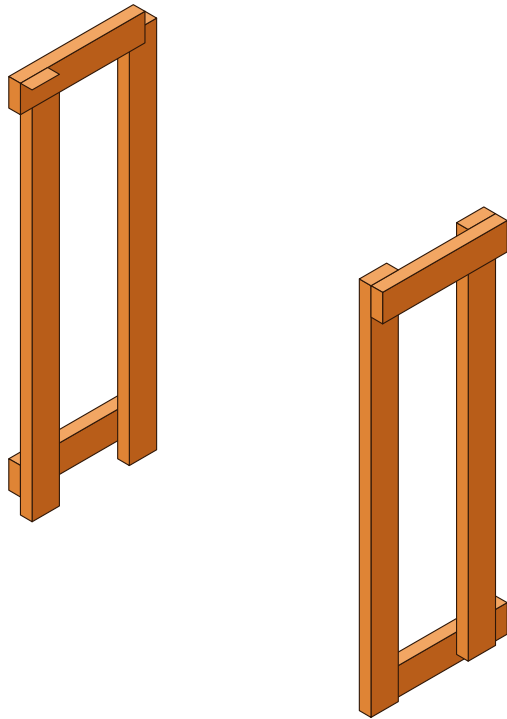
Pieces highlighted in warm amber are added in the current step. Muted beige pieces are already assembled from previous steps.

1

End Frames (×2)

Make 2 identical units (4 pcs each): 2× Upright (2x4, 48") 2× Cross Rail (2x4, 16")

- Drive 8× 2.5" screws (per unit) through **Cross Rail** into **Upright**

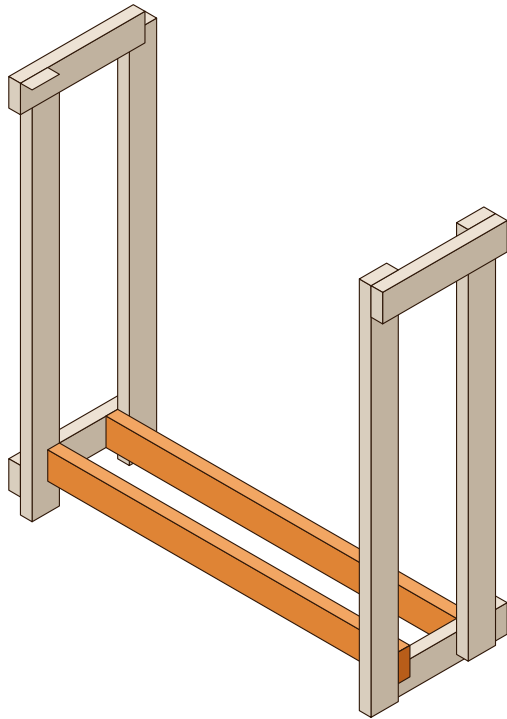


2

Frame Assembly

2× Runner (2x4, 45")

- Drive 8× 2.5" screws through **Runner** into **Upright**



3

Top & Finishing Assembly

2× Top Rail (2x4, 45")

- Drive 8× 2.5" screws through **Top Rail** into **Upright**

