

Shoe Rack

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

Specifications

Overall Dimensions	30" W × 12" D × 18" H
Total Parts Count	14 pieces (3 unique sizes)
Dimensional Stock Lumber	4 boards (3 unique cutting patterns)
Wood Screws	28 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	18"	Square (90°)	4× Legs
4×	2x4	12"	Square (90°)	4× Rails
6×	2x4	27"	Square (90°)	6× Slats

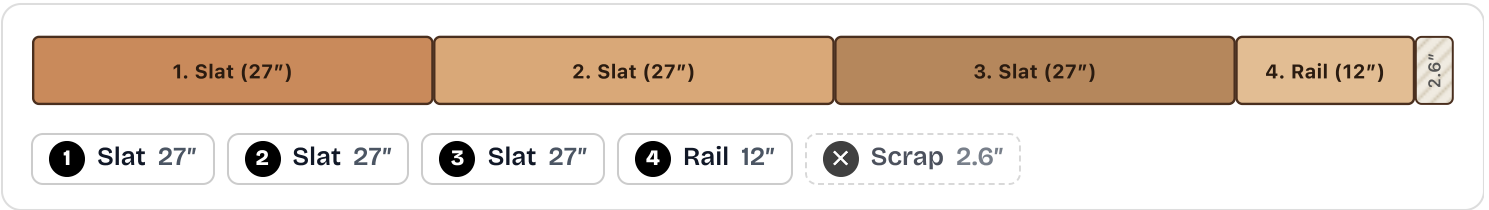
Board Cutting Diagrams

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)**

4 cuts/board • 93.4" used • 2.6" scrap

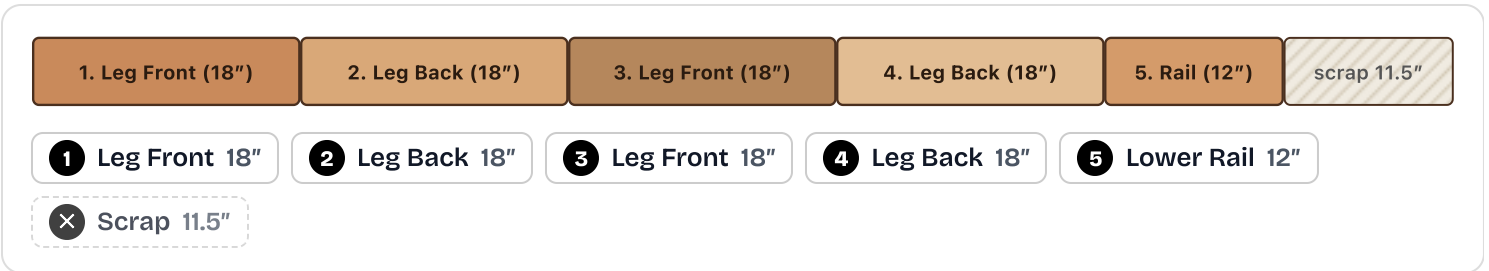
Cut this pattern **2 times** (2 boards total). Makes: Lower Slat 1 + Lower Slat 2 + Lower Slat 3 + Lower Rail, Upper Slat 1 + Upper Slat 2 + Upper Slat 3 + Upper Rail



1× Board **2x4 (8' / 96" stock)**

5 cuts/board • 84.5" used • 11.5" scrap

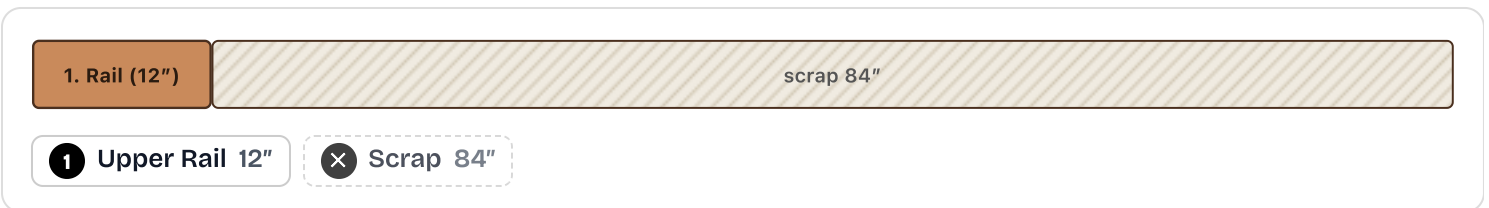
Produces: Leg Front + Leg Back + Leg Front + Leg Back + Lower Rail



1× Board **2x4 (8' / 96" stock)**

1 cut/board • 12" used • 84" scrap

Produces: Upper Rail



Step-by-Step Assembly Guide

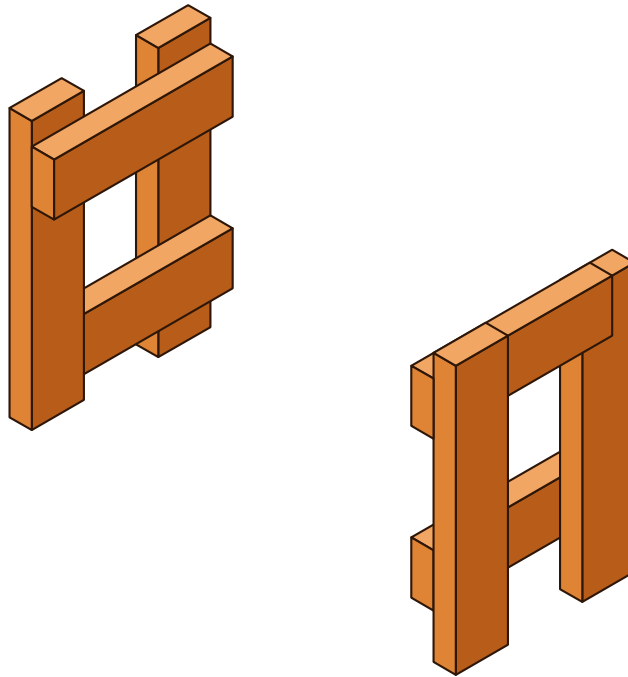
Pieces highlighted in warm amber are added in the current step. Muted beige pieces are already assembled from previous steps.

1

Side Frames (×2)

Make 2 identical units (4 pcs each): 2× Leg (2x4, 18") 2× Rail (2x4, 12")

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



2

Main Assembly

6× Slat (2x4, 27")

- Drive 12× 2.5" screws through **Slat** into **Rail**

