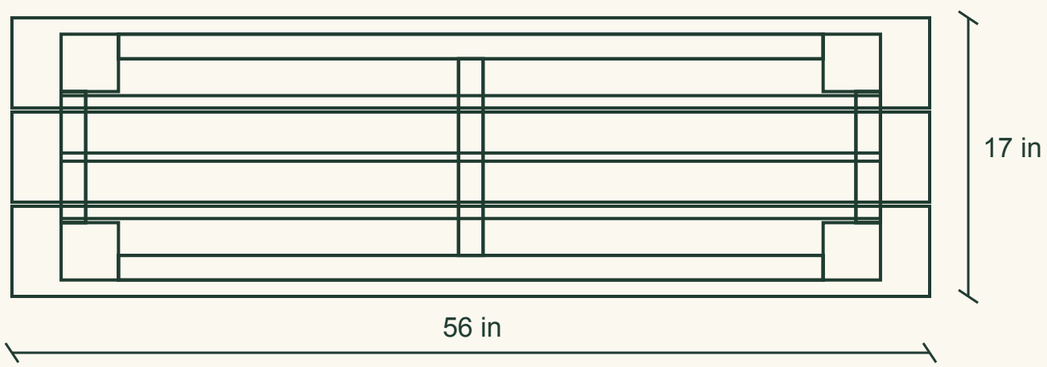
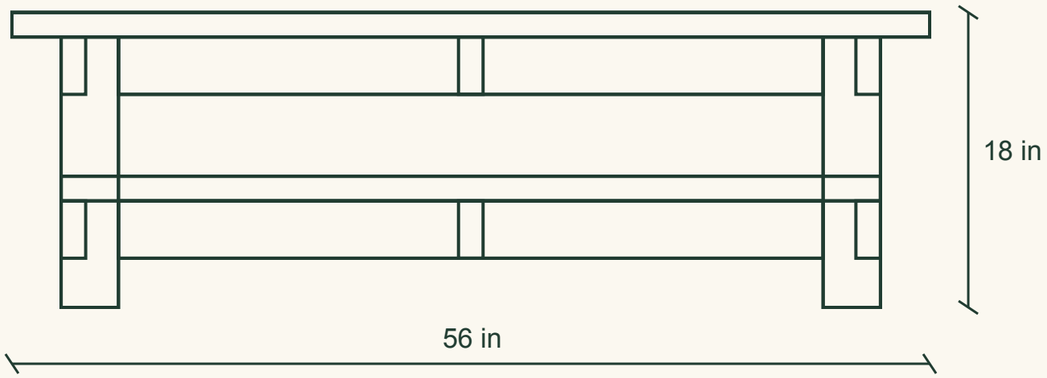
47 Build a Cedar Garden Bench With an Open Under-Seat Shelf

01 / MEASURED VIEWS

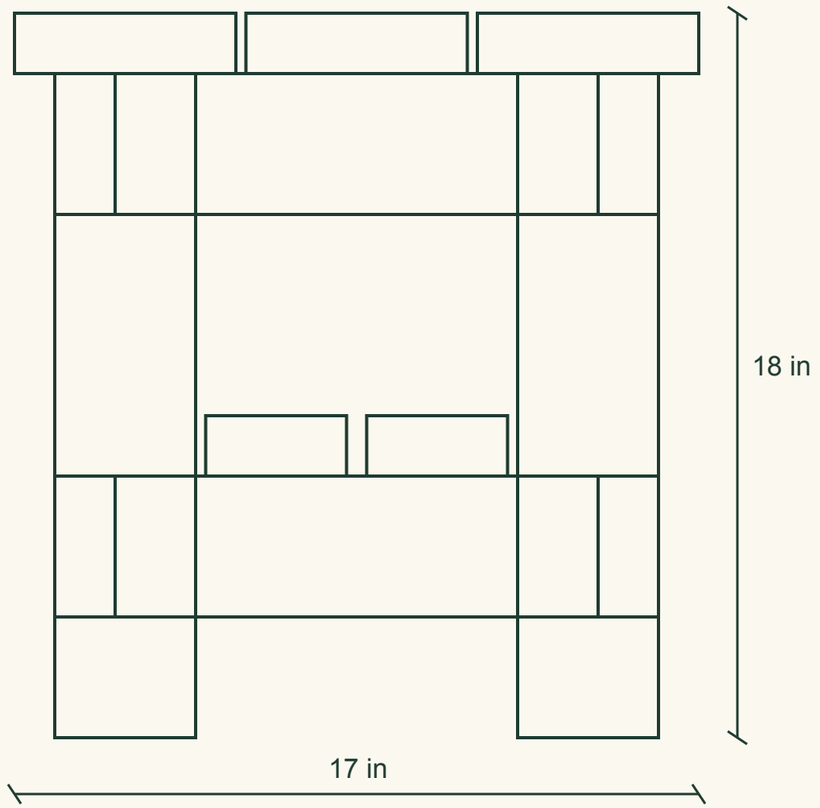
TOP



FRONT



SIDE



Origin is the front-left corner of the seat outline at ground level. X is length (left to right), Y is depth (front to back), Z is height. The legs start at x 3 and y 1; all dimensions are inches.

Screws, pocket holes, chamfers and round-overs are not modeled. Pocket-hole rows appear only as symbols in the drilling panels, and the jig controls entry distance and angle. Drawings show finished sizes, not stock defects or finish.

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02 / CUT LIST AND CONNECTION DETAILS

PART	QTY	FINISHED CUT / PURCHASED COMPONENT
L	4	Leg — 16.5 × 3.5 × 3.5 in
R	2	Top side rail — 43 × 3.5 × 1.5 in
E	2	Top end rail — 8 × 3.5 × 1.5 in
C	1	Seat cleat — 12 × 3.5 × 1.5 in
B	2	Lower side stretcher — 43 × 3.5 × 1.5 in
D	2	Lower end rail and shelf bearer — 8 × 3.5 × 1.5 in
M	1	Shelf center bearer — 12 × 3.5 × 1.5 in
H	2	Shelf slat — 50 × 3.5 × 1.5 in
S	3	Seat slat — 56 × 5.5 × 1.5 in

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03 / CONNECTIONS AND CRITICAL FEATURES

CONNECTION SCHEDULE

Frame: 40 pocket screws, 2 per rail end. R, B, E and D go into legs L, C into R, and M into B. Pockets are on hidden faces at 1.75 and 2.75 in below each rail top edge. Clamp each rail flush before driving. Seat: 14 #9 × 2.5 in screws. S0 and S2 go into R at 11, 20, 36 and 45 in from the slat left end, centered on R. S1 goes into E at 3.75 and 52.25 and into C at 28, each at 2 and 3.5 in from the S1 front edge. Shelf: 6 #9 × 2.5 in screws, one per bearing, at 0.75, 25 and 49.25 in from the H left end, 1.75 in from its edge, into D and M.

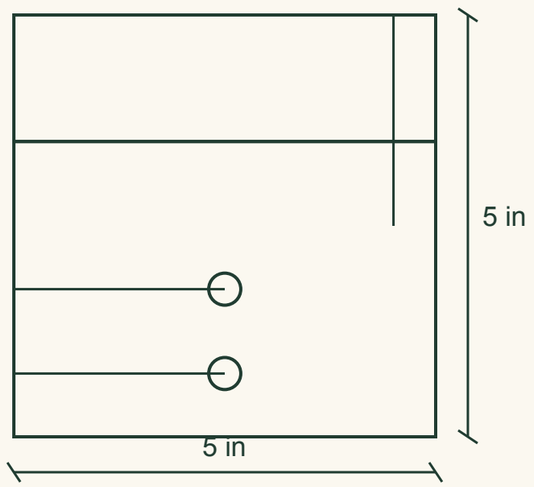
FIT AND LAYOUT CHECK

Leg frame 50 × 15 in outside. Seat 56 × 17 in, 3 in overhang at each end, 1 in front and back, gaps 0.25 in. H sits on D and M, 1.5 in above B, 0.25 in from the legs and 0.5 in apart. 2.25 in open gap between each B and the shelf. Shelf top 8 in above ground. Front opening under R 43 × 5 in, 8.5 in under seat center.

LIMITS

No load rating is assigned. Sit near the center or over the legs. Never stand or climb on the bench or sit alone on an end overhang. Store only light, dry items on the shelf; no planters, soil bags or full water cans until a reviewer sets a shelf limit. Seat span, shelf span, racking and tipping still need technical review.

FEATURE CHECK BEFORE ASSEMBLY

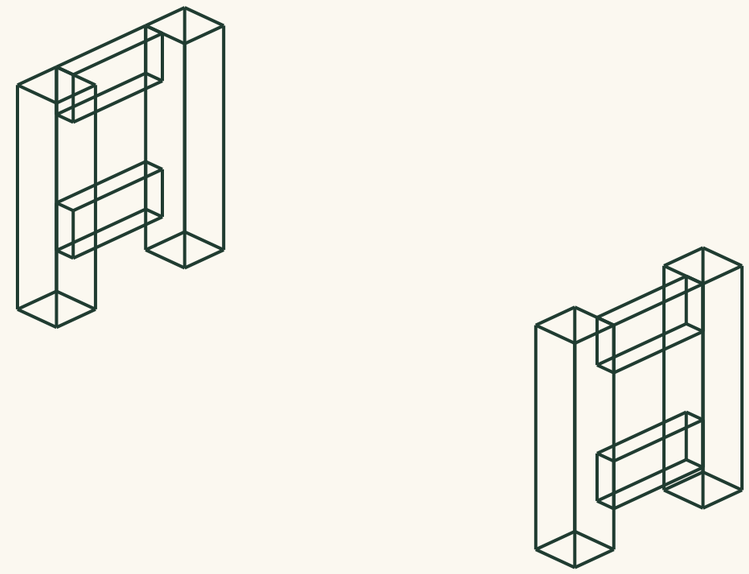


Elevation of a rail end under a slat: a 3.5 in rail with a 1.5 in slat above. The vertical line is a 2.5 in slat screw ending 1 in into the rail, 2.5 in above its bottom. The horizontal lines are pocket-screw paths at 1.75 and 2.75 in below the rail top, leaving 0.75 in clearance. Circles mark the rows only, not bore size or entry distance. Confirm the actual jig entry point, screw length and tip position on an offcut before drilling.

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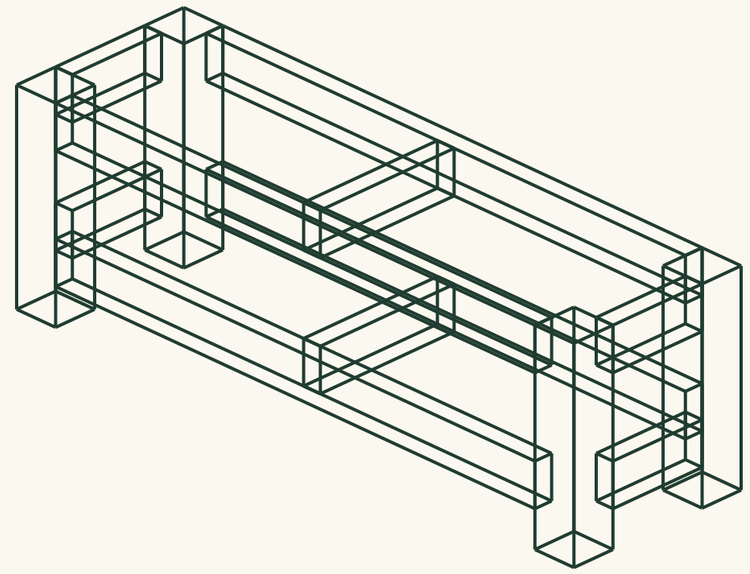
04 / ASSEMBLY STUDIES

STEP 7 / END FRAMES



Each end frame joins two legs with a top rail E and a lower shelf-bearing rail D.

STEP 9 / BRACED FRAME



Side rails, stretchers, the seat cleat and the shelf bearer complete the squared frame.

STEP 12 / SHELF AND SEAT

Shelf slats rest on D and M inside the stretchers, and the seat slats close the top.

Original schematic studies show part relationships, not an operator or a photographed build. Use the numbered instructions for workholding, fastening and inspection.