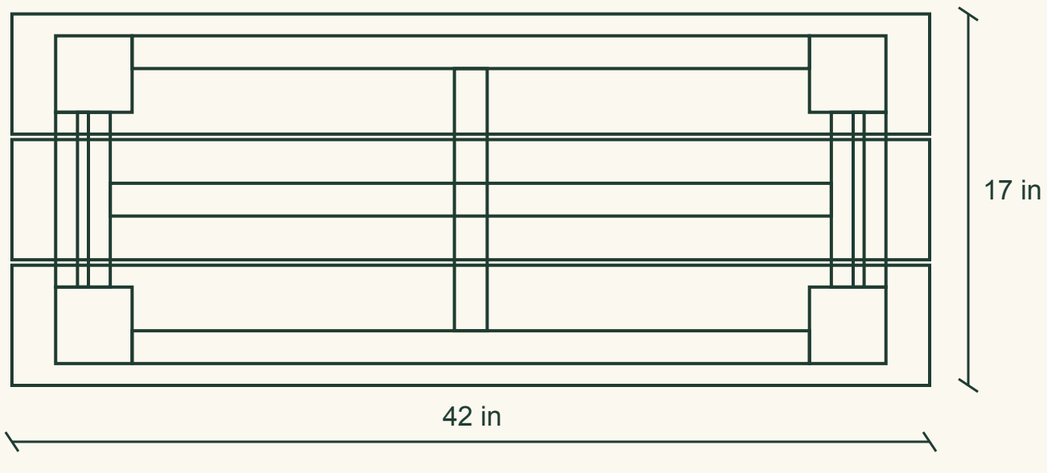
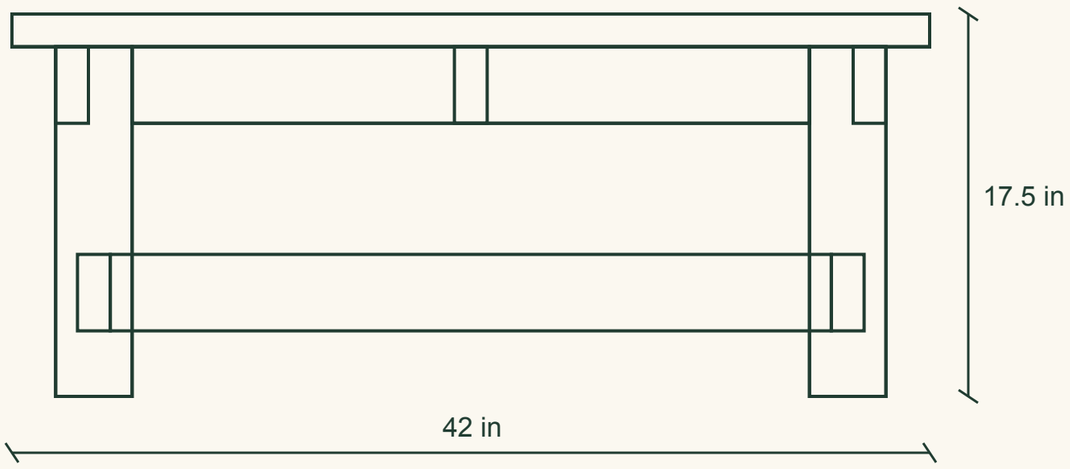
43 Build a Compact 42-Inch Cedar Garden Bench

01 / MEASURED VIEWS

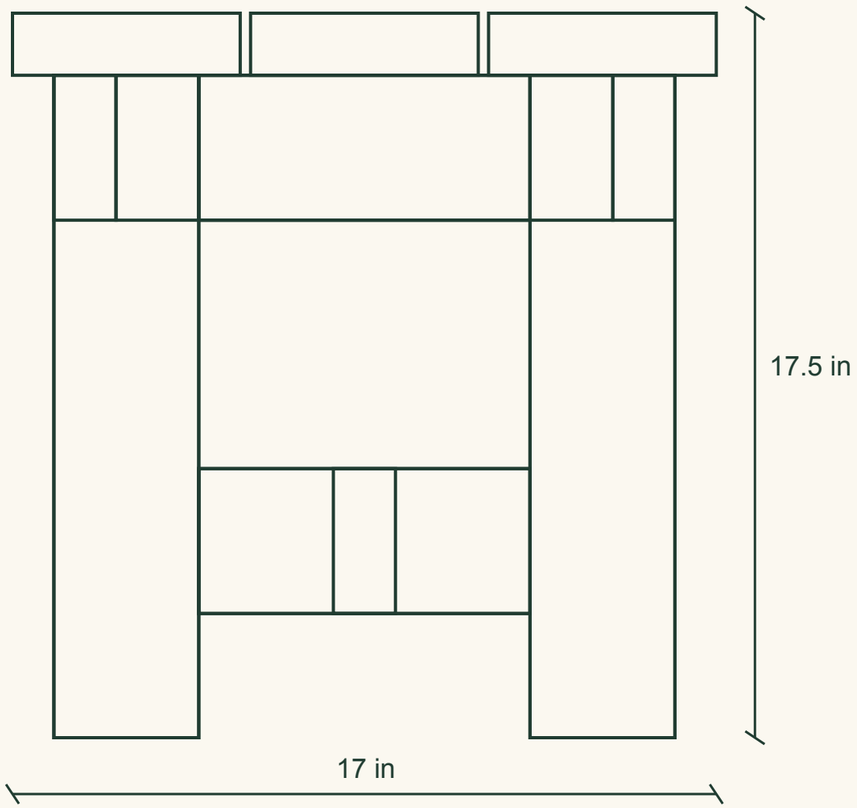
TOP



FRONT



SIDE



Origin is the front-left-bottom corner of the seat outline at ground level. X is width along the seat length, left to right. Y is depth, front to back. Z is height. All dimensions are inches.

Pocket holes, screws, chamfers, round-overs and finish are not modeled. Screw locations appear only in the step panels and the feature detail. The model is a dimensional layout, not a load, tipping or stability check.

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02 / CUT LIST AND CONNECTION DETAILS

PART	QTY	FINISHED CUT / PURCHASED COMPONENT
L	4	Leg — 16 × 3.5 × 3.5 in
R	2	Side rail — 31 × 3.5 × 1.5 in
E	2	End top rail — 8 × 3.5 × 1.5 in
C	1	Center cleat — 12 × 3.5 × 1.5 in
B	2	End lower rail — 8 × 3.5 × 1.5 in
T	1	Lower stretcher — 33 × 3.5 × 1.5 in
S	3	Seat slat — 42 × 5.5 × 1.5 in

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03 / CONNECTIONS AND CRITICAL FEATURES

CONNECTION SCHEDULE

Pocket screws, 32 total, 2.5 in, pockets on inside faces, each joint clamped flush before driving. R ends: 2 each into leg faces, 0.75 and 2.75 below top (8). E ends: 2 each, 1.25 and 2.25 below top (8). C ends: 2 each into R, 1.75 and 2.75 below top (4). B ends: 2 each into legs, 1.25 and 2.25 (8). T ends: 2 each into B (4). Seat screws, 14 #9 × 2.5 in, slats clamped: S0 and S2 into R at x 9 and 33 and into C at x 21; S1 into each E at x 2.75 and 39.25 and into C at x 21.

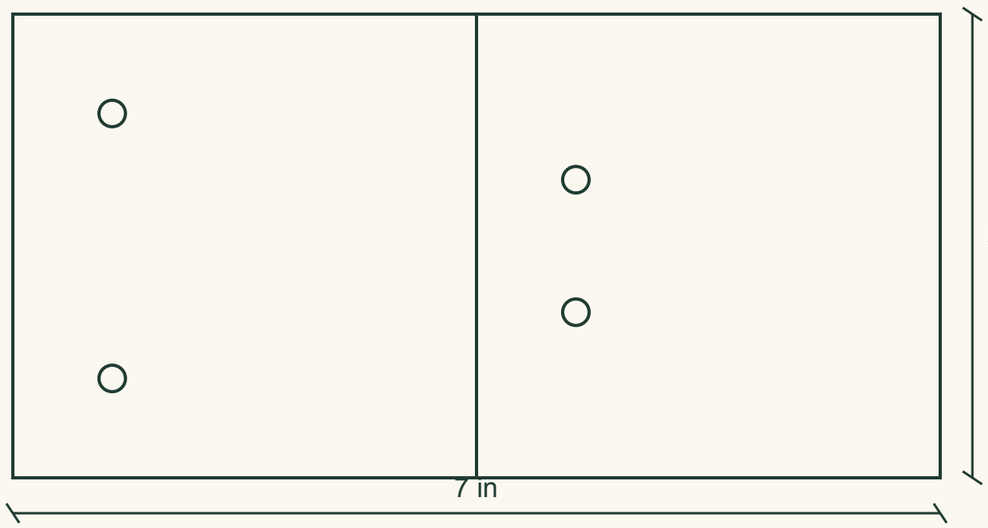
FIT AND LAYOUT CHECK

Legs stand 2 in in from each slat end and 1 in in from each long edge: frame 38 × 15 outside. R 31 and E 8 fit between legs, tops and outer faces flush. C 12 fits between R. B 8 fits between legs, 1 in in from the leg outer face, bottom 3 in up. T 33 fits between B. Three 5.5 slats with 0.25 gaps make a 42 × 17 seat at 17.5 in.

LIMITS

No load rating is assigned. Two-adult seating, end sitting, racking, overturning and uneven support have not been reviewed. Do not use it as seating until a qualified reviewer confirms them. Do not stand or climb on it or use it as a step, a heavy-load table or play equipment.

FEATURE CHECK BEFORE ASSEMBLY

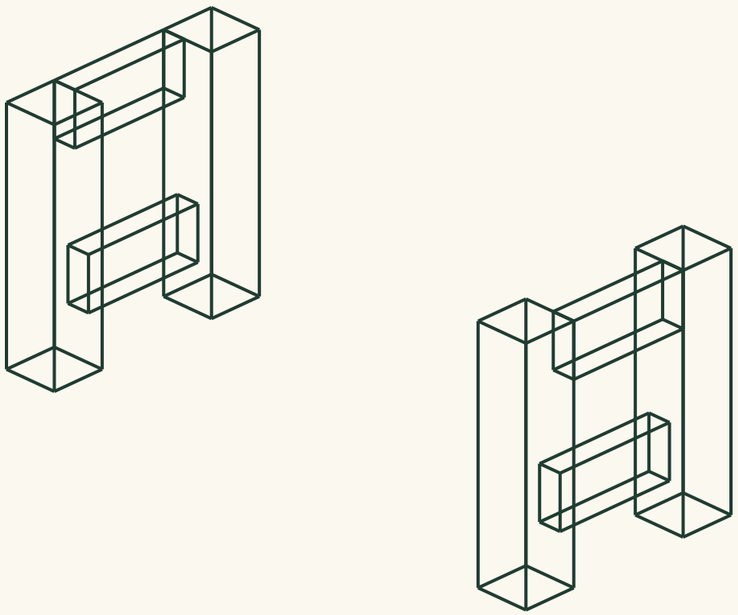


Unfolded top 3.5 in of leg L0's two inner faces, bottom edge at 12.5 in above the floor. Left face receives R0: screw rows 0.75 and 2.75 in below the top, 0.75 in from the leg outer face. Right face receives E0: rows 1.25 and 2.25 in below the top, 0.75 in from the end face. The staggered heights keep the two screw sets apart. Circles mark entry centers, not drill sizes. Confirm the jig's screw path and the penetration into the leg in a clamped trial on an offcut before drilling the parts.

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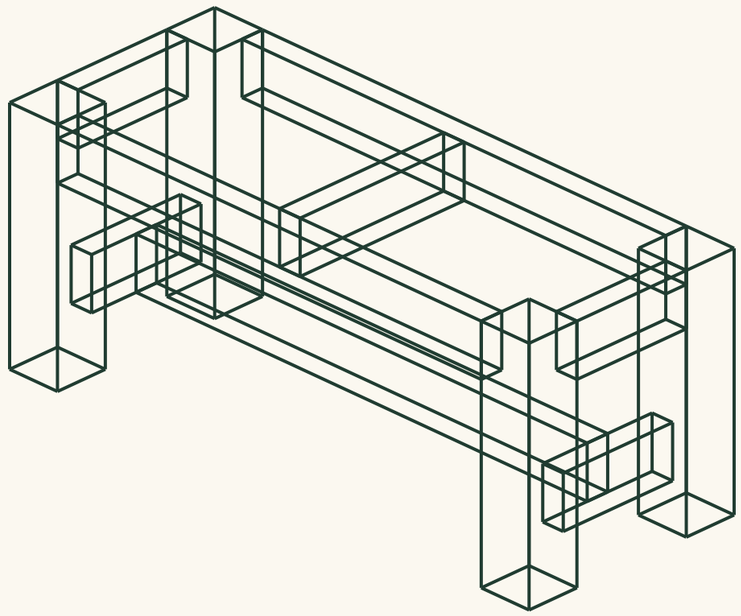
04 / ASSEMBLY STUDIES

STEP 7 / END FRAMES



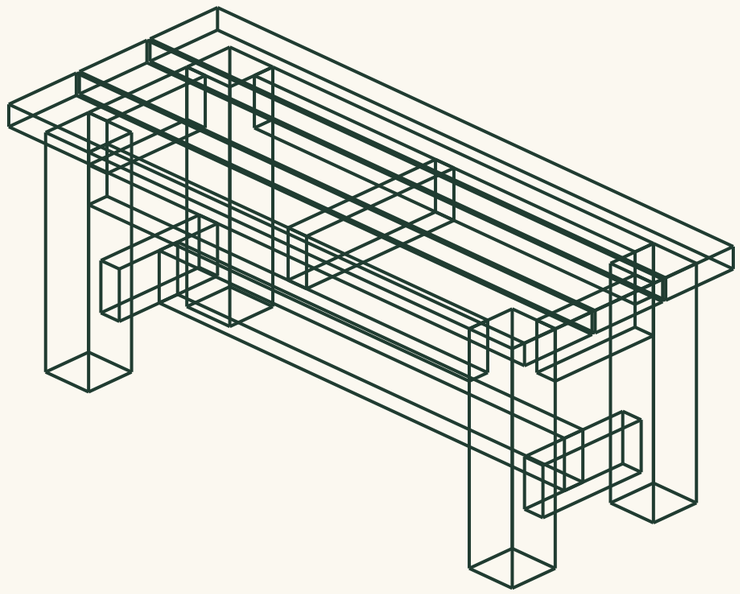
Each pair of legs is joined by a top rail and a lower rail before the frames stand up.

STEP 9 / BRACED FRAME



Side rails, center cleat and the lower stretcher complete the square, braced frame.

STEP 11 / SEAT FASTENED



Three slats with 0.25-inch gaps overhang the legs 2 inches at each end.

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