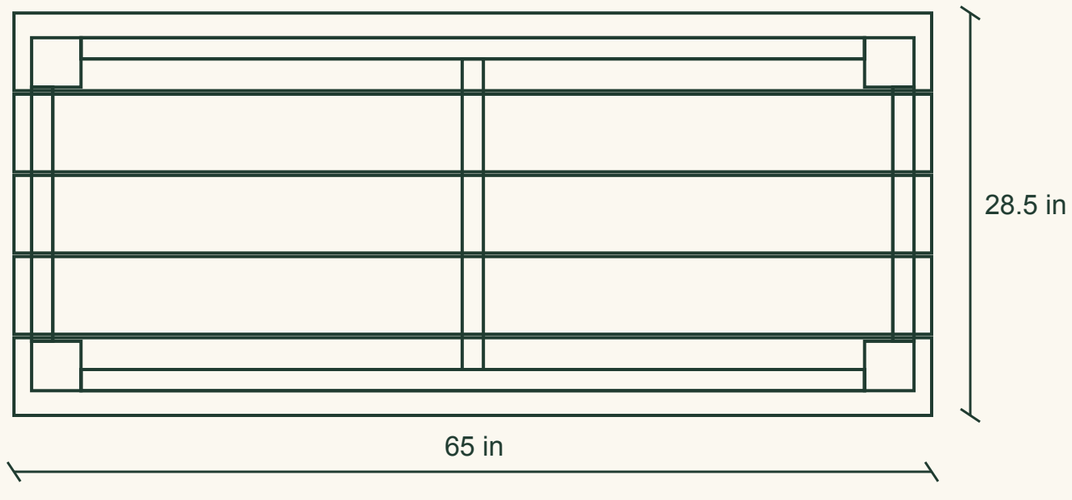
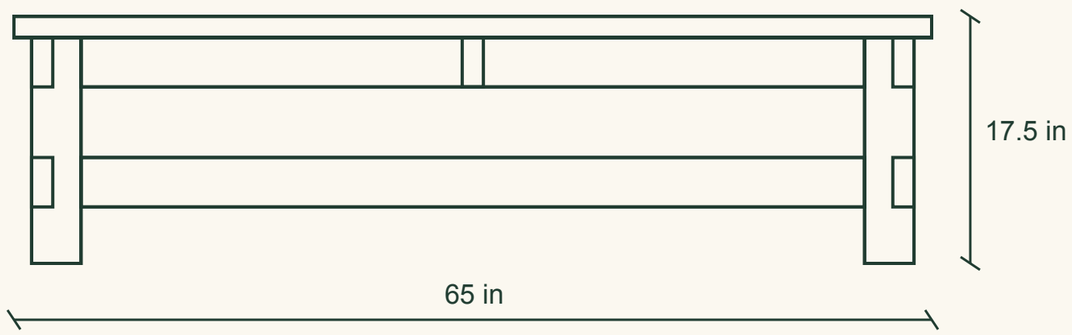
50 Build a Garden Bench with Removable Seat Boards

01 / MEASURED VIEWS

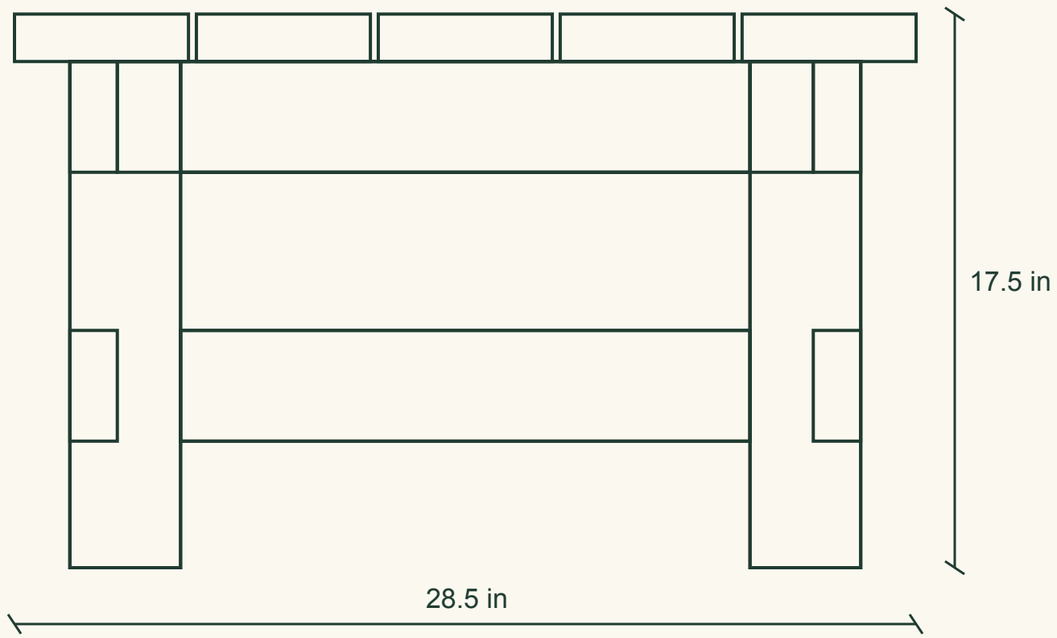
TOP



FRONT



SIDE



Origin is the front-left-bottom corner of the seat envelope, the left end of front slat S0 at ground level. X is bench length, Y is depth front to rear, Z is height. All dimensions are inches.

Screws, pocket holes and the leg chamfers are omitted from the 3D drawing for clarity; their positions are in the connection schedule and the face patterns. The drawing shows the bench on level ground with the seat slats parallel to the side rails. It is not a load or stability analysis.

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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	Upper side rail — 55.5 × 3.5 × 1.5 in
B	2	Lower side rail — 55.5 × 3.5 × 1.5 in
E	2	Upper end rail — 18 × 3.5 × 1.5 in
F	2	Lower end rail — 18 × 3.5 × 1.5 in
C	1	Center stretcher — 22 × 3.5 × 1.5 in
S	5	Removable seat slat — 65 × 5.5 × 1.5 in

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03 / CONNECTIONS AND CRITICAL FEATURES

CONNECTION SCHEDULE

Frame, 36 #8 × 2.5 in pocket screws, no glue: two per rail end, holes 0.75 and 2.75 in below the rail top edge on the inside face (E and F toward the seat middle, C toward the left end). Clamp each joint flush before driving. R, E and C tops are flush with the leg tops; B and F top edges sit 8.5 in below. R and B fit 55.5 in between legs, E and F 18 in between legs, C between the R rails. Seat, 24 #10 × 3 in screws through clearance holes into rail tops, heads flush with the face. S1, S2 and S3: two screws at each of x 2, 32.5 and 63 in from the left end, 1.5 and 4 in from the front edge. S0: three at x 12, 32.5 and 53, 2.5 in from its front edge into the front R. S4: the same x, 3 in from its front edge into the rear R.

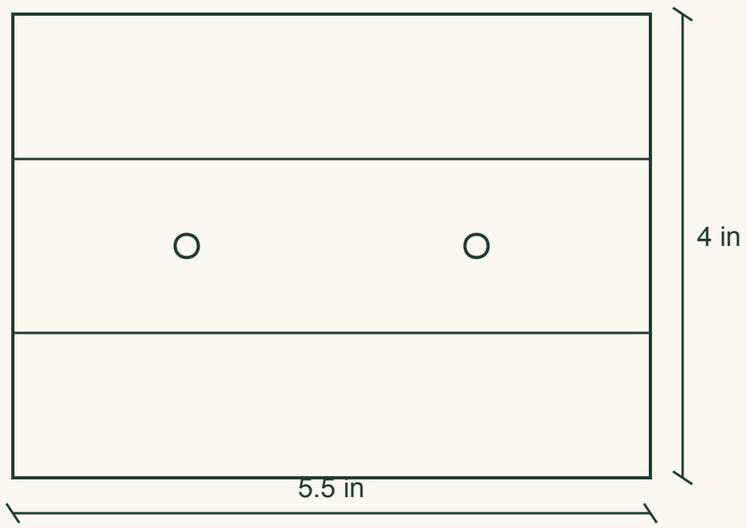
FIT AND LAYOUT CHECK

Frame outside 62.5 × 25 in, 16 in high. Seat 65 × 28.5 in: five slats plus four 0.25 in gaps. Slats overhang 1.25 in at each end and 1.75 in front and rear. Seat height 17.5 in. Clear span between supports under S1–S3 is 29 in on each side of C.

LIMITS

No load rating is assigned. Seated use only after the reviews in the stops are closed. Do not stand, climb or sit on the end overhang, and do not use as a step or table. Slat span, racking and tipping are not reviewed.

FEATURE CHECK BEFORE ASSEMBLY

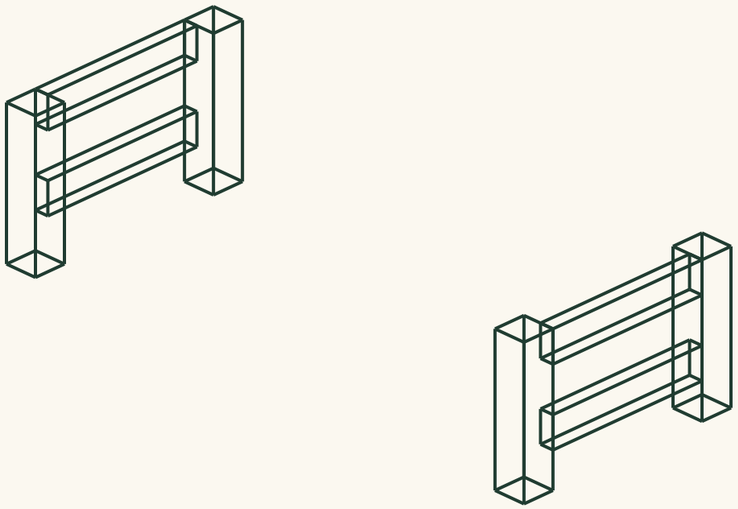


Top face of the left end of slats S1 to S3, 5.5 in wide, showing the first 4 in from the end. The two lines are the edges of end rail E (1.5 in wide) beneath the slat. Screw centers are 2 in from the end and 1.5 and 4 in from the front edge. Circles mark screw centers, not pilot or clearance diameters. Confirm the screw maker's pilot size and that the screw head finishes flush with the seat face on the real parts.

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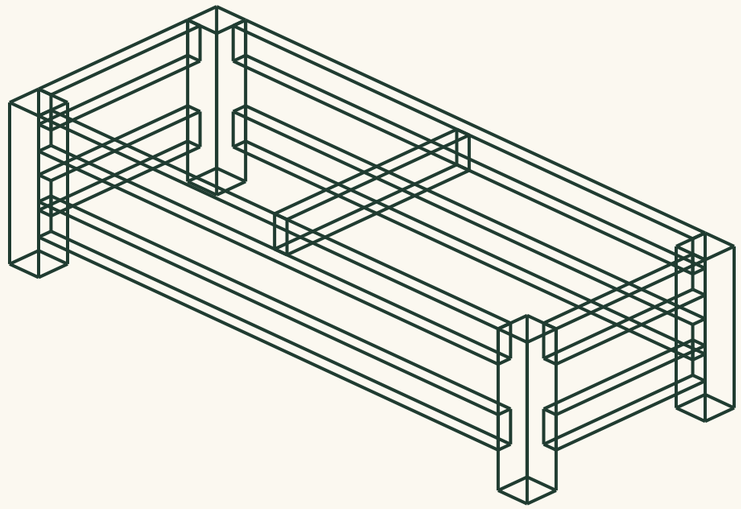
04 / ASSEMBLY STUDIES

STEP 6 / END FRAMES



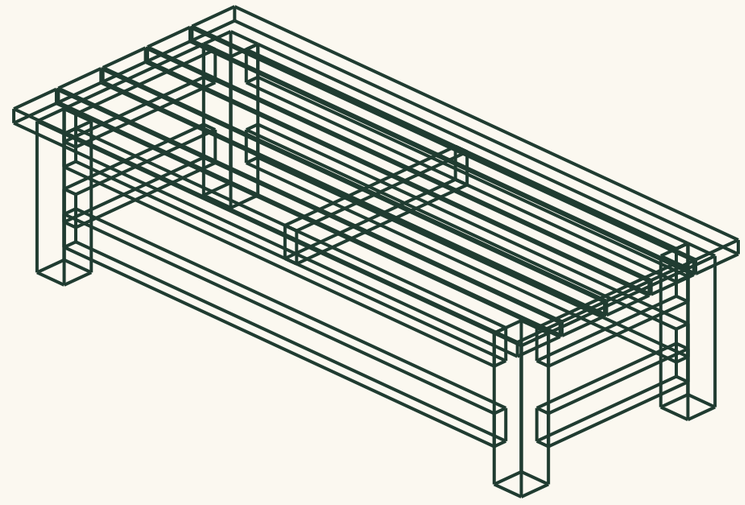
Fit the end rails between the legs and check each end frame for square.

STEP 7 / BRACED FRAME



Join the end frames with side rails and the center stretcher, then measure the diagonals.

STEP 10 / SEAT SLATS



Screw the five slats to the rail tops with 0.25 in gaps.

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