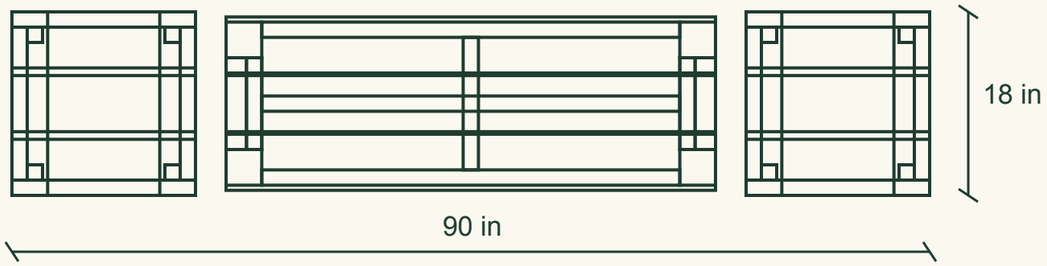
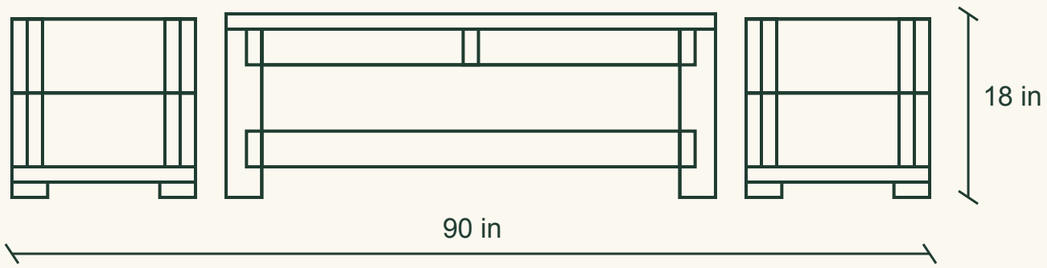
49 Build a Garden Bench Between Two Freestanding Planter Boxes

01 / MEASURED VIEWS

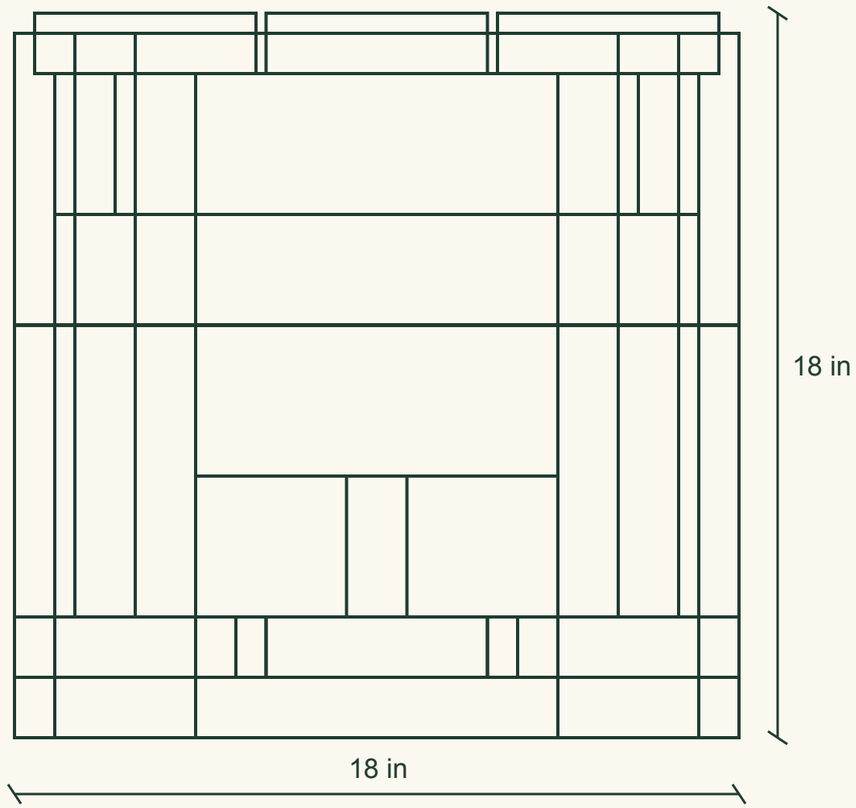
TOP



FRONT



SIDE



The origin is the front-left-bottom corner of the left planter cleat LE0. X runs along the line of units (width), Y is depth from front to back, and Z is height above the bearing surface. All dimensions are in inches.

The plan sheets show the empty units in their final positions. Liner M, soil, finish, pocket holes and screws are not modeled. Screw positions appear only as schedule points. The sheets are not a load diagram and do not show surface capacity or drainage grading.

49 Build a Garden Bench Between Two Freestanding Planter Boxes

02 / CUT LIST AND CONNECTION DETAILS

PART	QTY	FINISHED CUT / PURCHASED COMPONENT
A	8	Planter front and back wall board — 18 × 7.25 × 1.5 in
B	8	Planter end wall board — 15 × 7.25 × 1.5 in
C	8	Planter corner post — 14.5 × 1.5 × 1.5 in
D	6	Planter bottom board — 18 × 5.5 × 1.5 in
E	4	Planter bearing cleat — 18 × 3.5 × 1.5 in
F	4	Bench leg — 16.5 × 3.5 × 3.5 in
G	2	Bench top side rail — 41 × 3.5 × 1.5 in
H	4	Bench end rail and lower end stretcher — 9 × 3.5 × 1.5 in
J	3	Seat slat — 48 × 5.5 × 1.5 in
K	1	Bench center cleat — 13 × 3.5 × 1.5 in
P	1	Bench lower long stretcher — 41 × 3.5 × 1.5 in
M	2	Planter liner — Two blanks 44 × 44 in before fitting

49 Build a Garden Bench Between Two Freestanding Planter Boxes

03 / CONNECTIONS AND CRITICAL FEATURES

CONNECTION SCHEDULE

Bench: 32 pocket screws, 2 per rail end. They join the top H and lower H to legs F, G to F, P to the lower H, and K to G. Clamp each joint flush before driving. Seat: 14 #10 × 3 in screws go down through J into the top edges of G, H and K (4 in J0, 6 in J1, 4 in J2). Each planter: 32 #10 × 2.5 in screws through A and B into the posts C, 2 per board end. 10 #10 × 3 in screws go up through D into the wall edges. 6 #10 × 2.5 in screws go up through E into D. Both boxes: 64, 20 and 12. No fastener joins a planter to the bench.

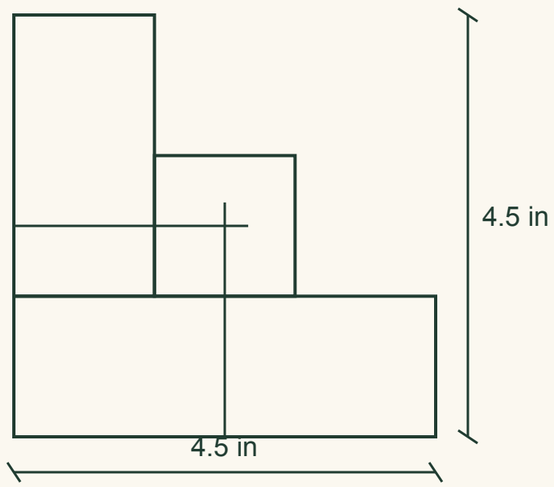
FIT AND LAYOUT CHECK

Bench legs measure 48 × 16 in outside. The seat is 48 × 17 in with its top at 18 in. The slats are flush with the leg ends and 0.5 in past the leg faces, with 0.25-in gaps. Each planter is 18 × 18 in outside and 15 × 15 in clear inside. Its 14.5-in walls sit on 1.5-in bottoms and 1.5-in cleats, with the rim at 17.5 in. Drain gaps between the D boards are 0.75 in. A 3-in clear gap separates each planter from the bench at every height.

LIMITS

No load rating is assigned. No structural review, prototype or test exists. Seated use waits for a qualified reviewer to confirm spans, racking and tipping. Never stand on the bench. Never sit or stand on a planter, lean the bench on one, or join the units. Wet-soil weight and surface capacity are not calculated here; confirm both before filling.

FEATURE CHECK BEFORE ASSEMBLY

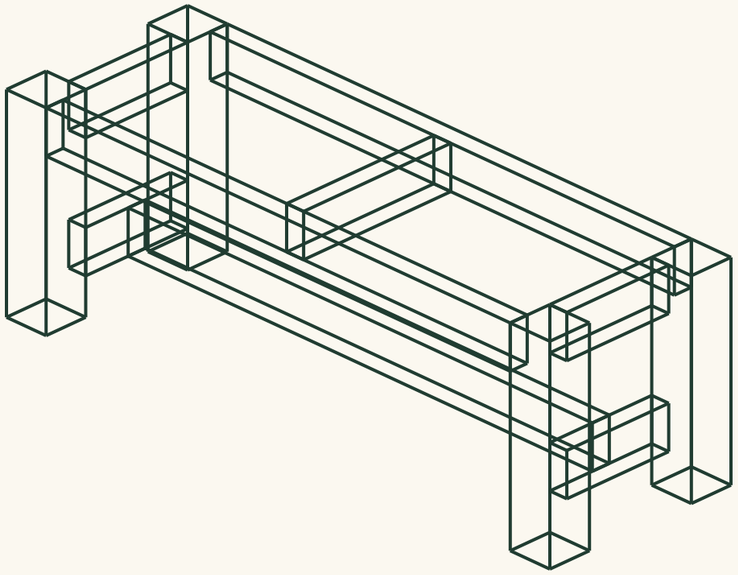


Plan view of a planter front-left corner. Front wall A runs through, end wall B fits between, and post C sits in the inside corner. The lines are the screw paths of #10 × 2.5 in screws, each engaging 1.0 in into the post. The A screws sit 1.75 and 5.5 in above each course bottom, and the B screws at 2.75 and 4.5 in, so the paths never cross. Confirm pilot sizes from the screw maker and check the 0.75-in end distance in B for splitting on a trial offcut.

49 Build a Garden Bench Between Two Freestanding Planter Boxes

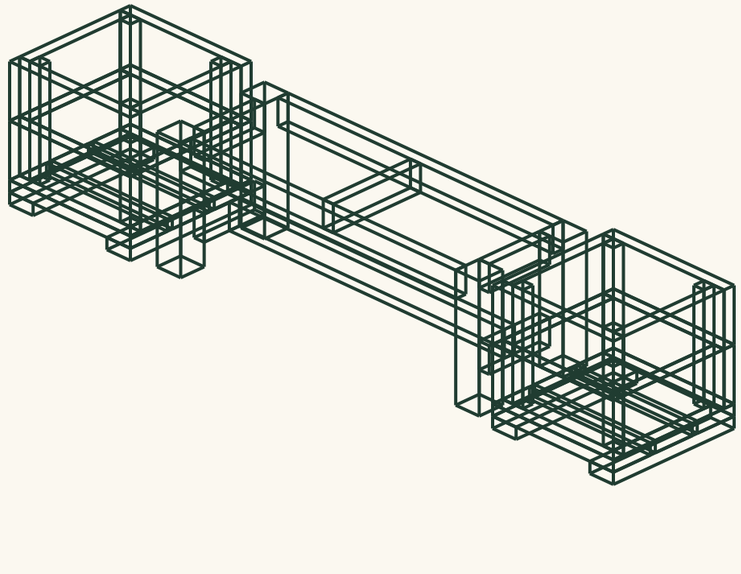
04 / ASSEMBLY STUDIES

STEP 7 / FREESTANDING BENCH FRAME



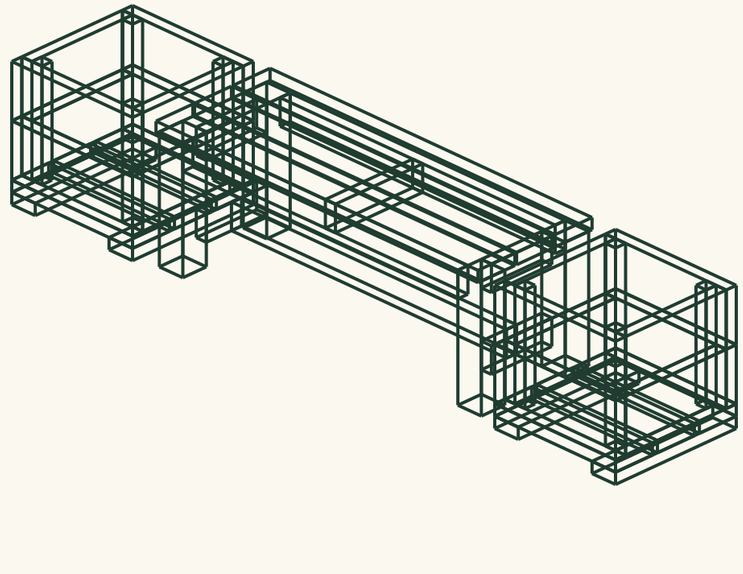
Two end frames joined by side rails, a lower stretcher and a center cleat form a bench that stands on its own legs.

STEP 10 / TWO SEPARATE PLANTER BOXES



Each planter carries its soil on its own bottom boards and cleats, 3 in clear of the bench.

STEP 12 / SEAT FITTED



Three slats complete the bench, and the slat ends stop at the leg faces so the gaps stay open.

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