THE DIYCRAFT PLAN COLLECTION

Three-Tier
Garden Planter



FREE PLAN

5 construction steps | Shared dimensioned construction drawings

THREE-TIER PLANTER

Free & Premium Plans

The same five illustrated construction steps in both editions. Premium adds the consolidated shopping list, recommended tools and support.



Compare what is included

Features	Free plan	Premium
Steps included	**5**	**5**
Illustrated construction steps	✅	✅
Dimensioned parts and assembly views	✅	✅
Cut lengths and fitted rake profiles	✅	✅
Box joint and tier-position details	✅	✅
Consolidated stock shopping list		✅
Recommended tools		✅
Technical support		✅

Premium: $9.99 USD | Both editions include Steps 1-5

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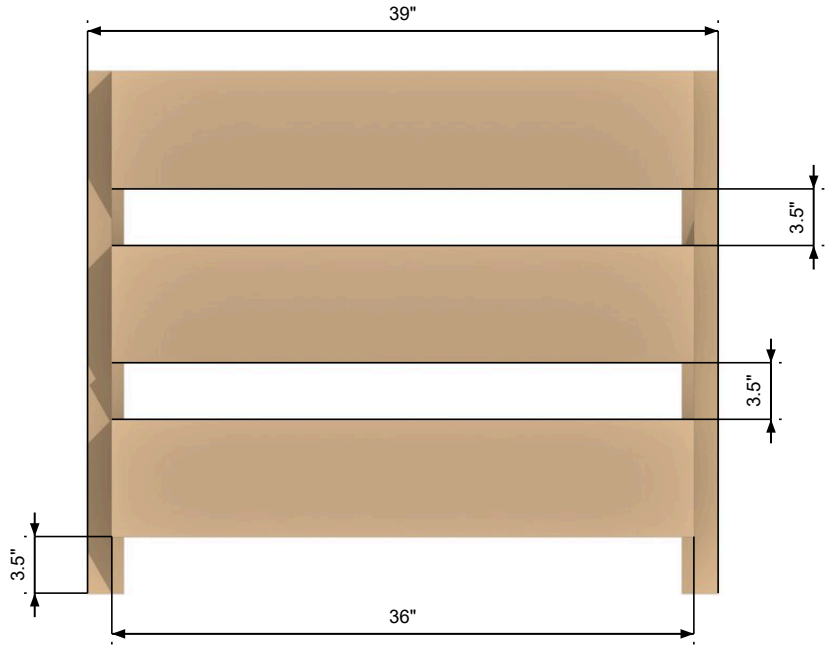
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THREE-TIER PLANTER

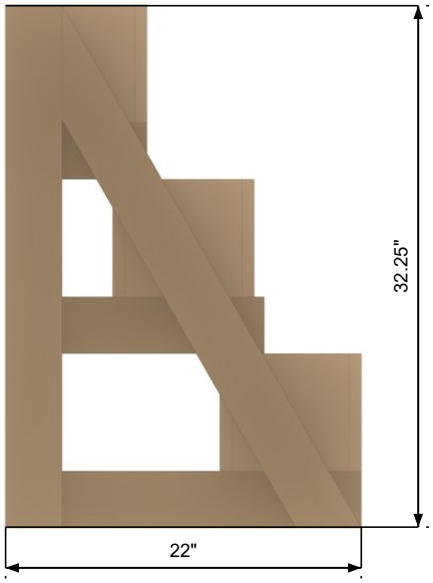
Size & Dimensions

Finished dimensions are measured from the original ground-contact plane. Front and side views share one scale.

FRONT / REAR



SIDE



Overall envelope: 39 x 22 x 32.25 in. Each of the three boxes is 36 x 8.75 x 7.25 in outside. Preserve the original frame and foot arrangement; confirm stability for the intended planting load.

THREE-TIER PLANTER

Model View

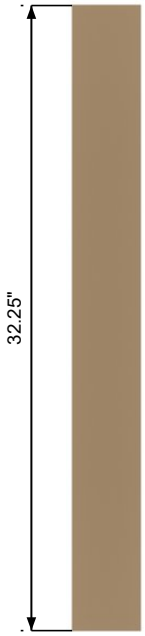


STEP 01 / 05 | CONSTRUCTION

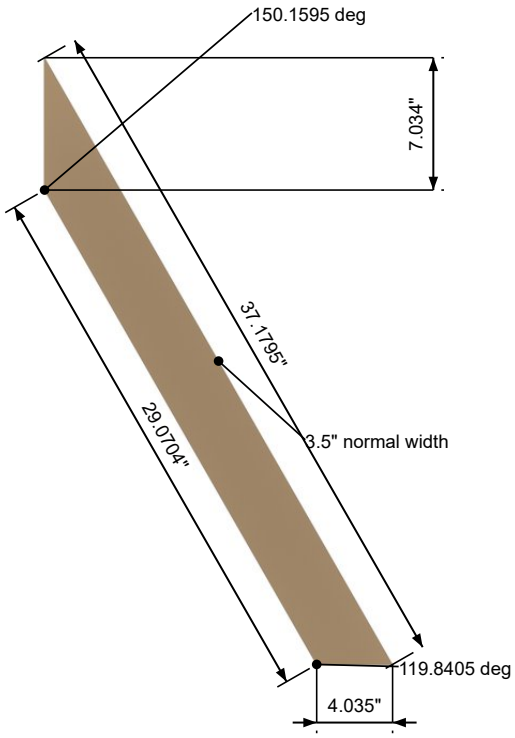
Cut and assemble the side frames

Cut two uprights and two fitted rakes. Make mirrored side frames; dry-fit each plumb rake end against its upright before fastening.

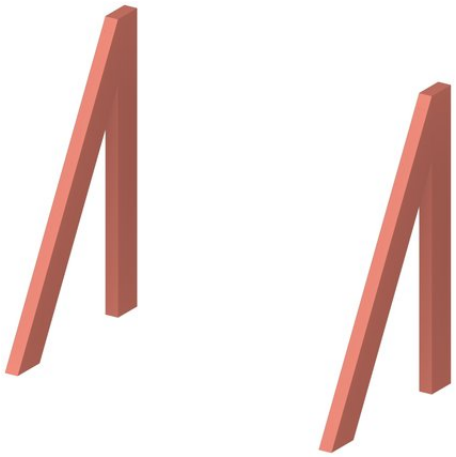
UPRIGHT / MAKE TWO



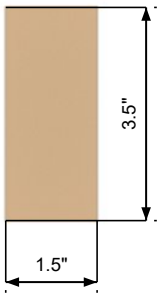
RAKE / MAKE TWO



ASSEMBLY / NEW PARTS IN RED



UPRIGHT SECTION



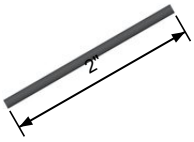
RAKE / FOOT DETAIL



PLUMB BUTT / CLOSE-UP



SCREW / SCHEMATIC



PART / ACTUAL CUT	QTY / ASSEMBLY
Actual 1.5 x 3.5 in timber	2 uprights: 32.25 in; 2 rake blanks: 38 in

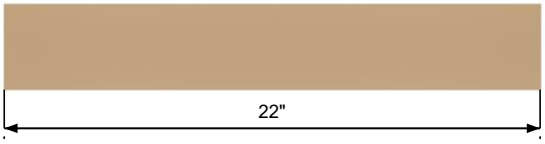
Use 38 in rough rake blanks. Fitted edges replace the rounded source 37.25/29.25 in values. The joint is a plumb butt, with four 2 in schematic screw paths total; no housing or bearing shoulder is added. Trial-fit actual stock.

STEP 02 / 05 | CONSTRUCTION

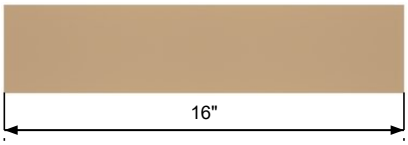
Install the side joists

Cut six side joists. Fix one lower, middle and upper joist to each side frame, square across the width, and keep each pair level.

LOWER / MAKE TWO



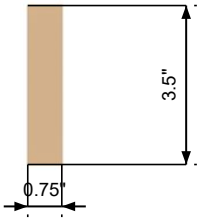
MIDDLE / MAKE TWO



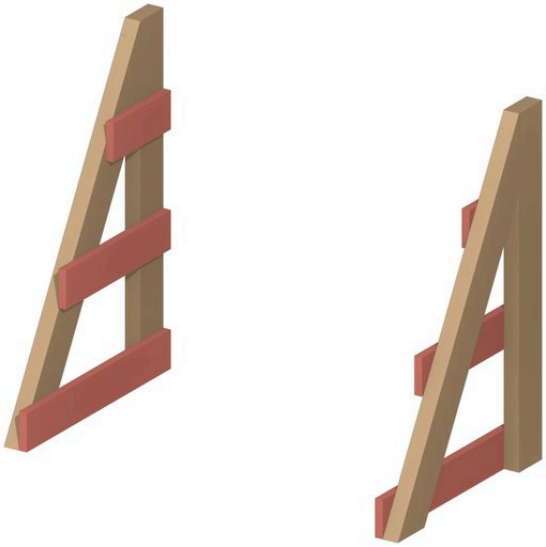
UPPER / MAKE TWO



ACTUAL SECTION



ASSEMBLY / NEW PARTS IN RED



JOIST EDGE GAPS



PART / ACTUAL CUT	QTY / ASSEMBLY
Actual 0.75 x 3.5 in timber	2 x 22 in; 2 x 16 in; 2 x 8.75 in

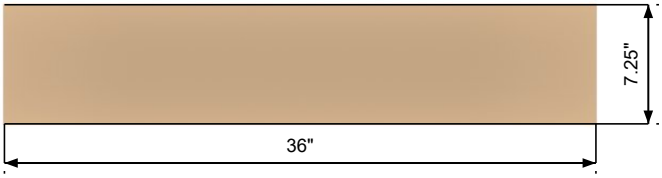
Joist tops are 3.5, 14.25 and 25 in above the foot plane. Use 48 two-inch schematic screws: 8 per joist, with 4 into each leg. Dry-fit, check square and select matching screw gauge, pilots and countersinks.

STEP 03 / 05 | CONSTRUCTION

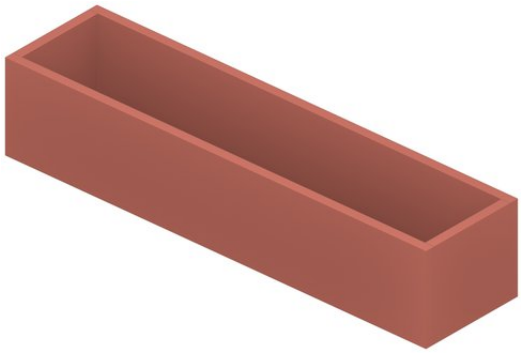
Cut and assemble the boxes

Cut three identical five-board sets. Assemble each box with its end boards between the long walls and the floor between all four walls.

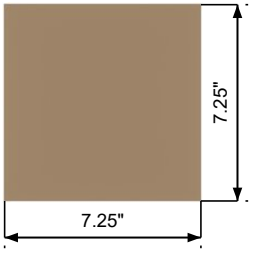
LONG WALL / MAKE SIX



BOX ASSEMBLY / REPEAT THREE TIMES



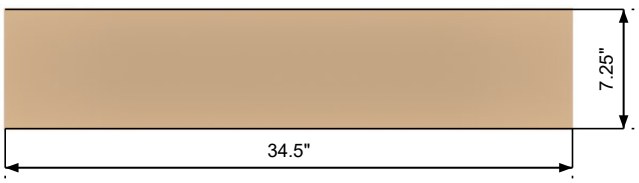
END WALL / MAKE SIX



WALL SECTION



FLOOR / MAKE THREE



FLOOR EDGE



PART / ACTUAL CUT	QTY / ASSEMBLY
Actual 0.75 x 7.25 in boards	6 x 36 in; 6 x 7.25 in; 3 x 34.5 in

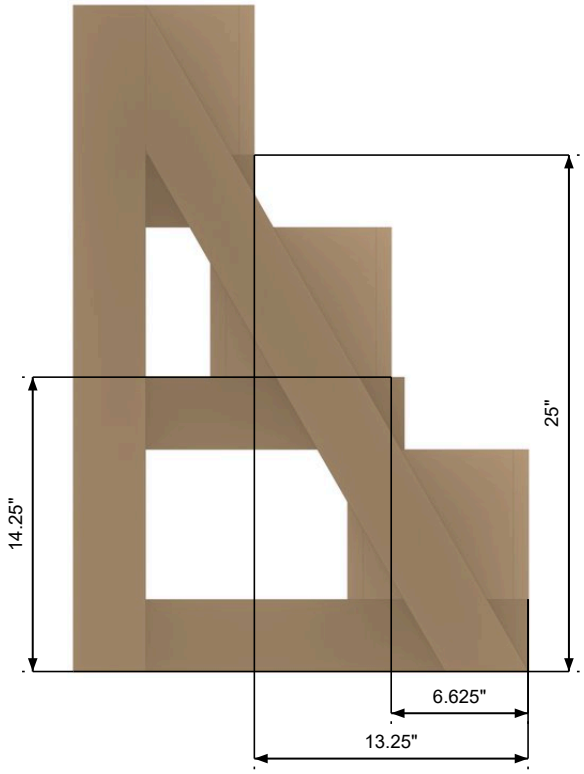
Per box, use 28 two-inch schematic screws: 12 long-wall/end fixings and 16 floor-edge fixings (6 front, 6 rear, 2 at each end). Floors have edge contact only, with no underside ledger. Select pilots/edge distances and confirm wet-soil capacity.

STEP 04 / 05 | CONSTRUCTION

Mount the three boxes

With the frame square, fit the three assembled boxes laterally into place. Seat both end walls on their paired joists, then fasten to the rakes.

TIER POSITIONS / SIDE



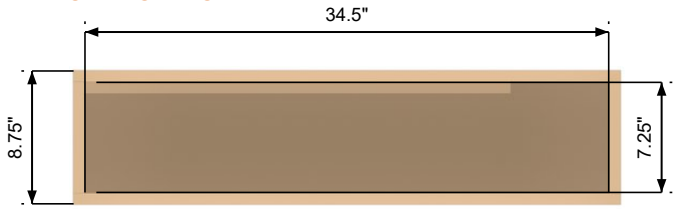
ASSEMBLY / BOXES IN RED



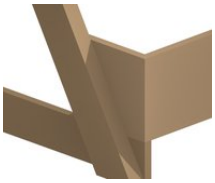
LATERAL FIT / INTERMEDIATE



ONE BOX / TOP



END WALL ON JOIST



Middle front setback 6.625 in is the fitted equal-step placement; upper front setback is 13.25 in. Keep both 3.5 in clear vertical gaps. Use 12 two-inch box/rake screws: 2 per box at each side. End-wall seats do not provide direct floor bearing.

STEP 05 / 05 | CONSTRUCTION

Finish the planter

Sand sharp edges and inspect every joint. Apply a planting-suitable exterior finish if selected, following its preparation and curing directions.

FINISHED THREE-TIER PLANTER



Check all foot contacts and box retention before loading. Resolve drainage, moisture protection, ground restraint and the intended soil load before use; no load capacity is certified. Inspect periodically for loose fasteners, movement or decay.

THREE-TIER PLANTER

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