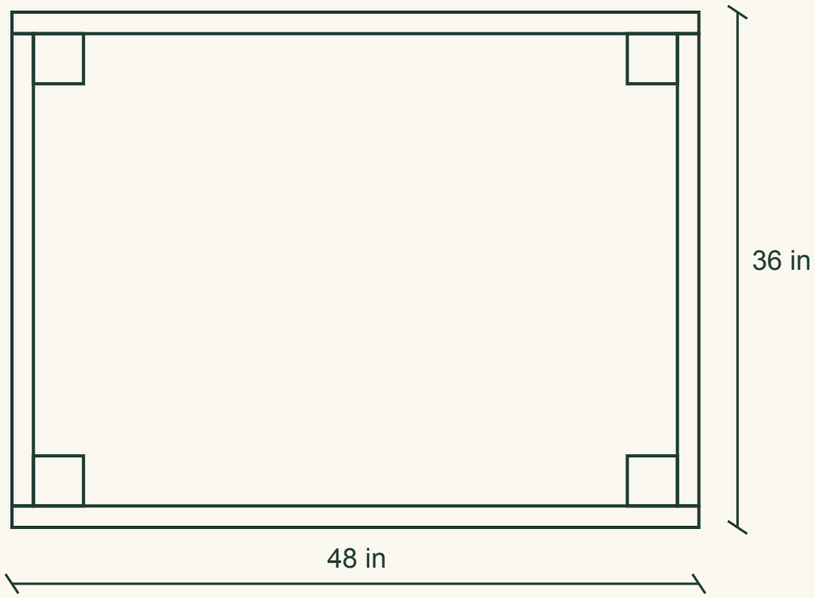
31 Build a Level Timber Raised Bed on a Mild Slope

01 / MEASURED VIEWS

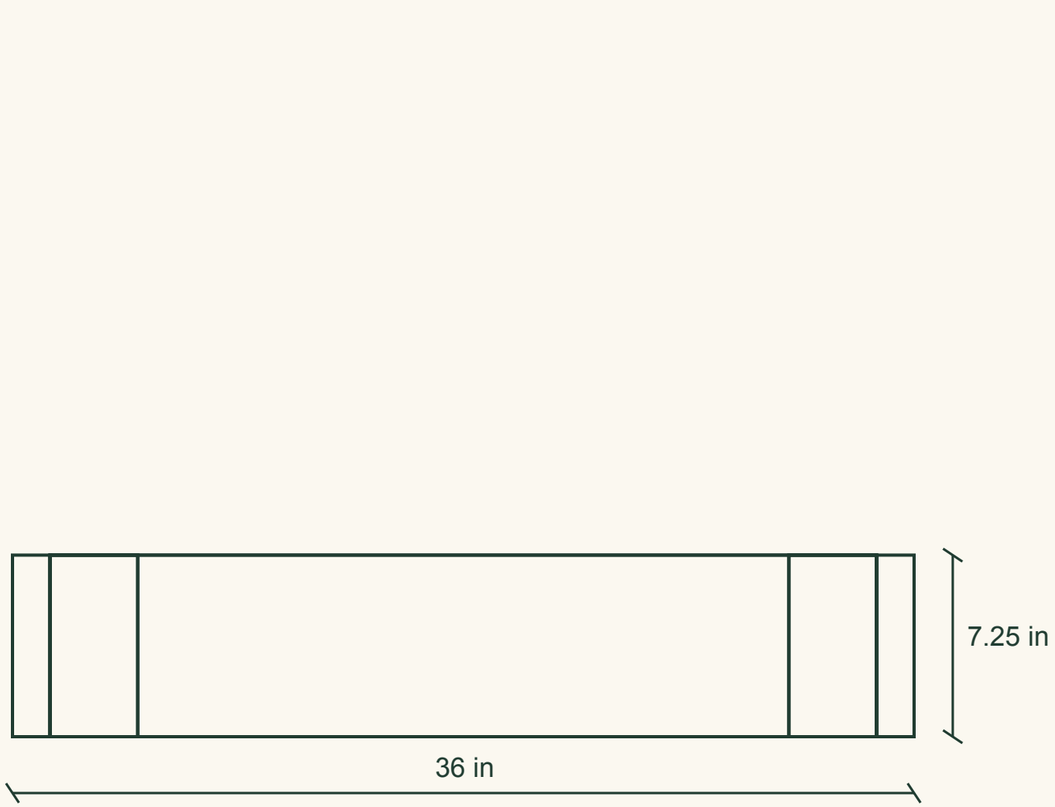
TOP



FRONT



SIDE



The origin is the front-left-bottom outside corner of the frame, on the bench surface. X is width along the contour, left to right as viewed from downhill. Y is depth, running uphill. Z is height. The front wall L0 is the downhill wall. All dimensions are in inches.

The model shows the timber frame only. The cut bench, the cut face of 2 in at most, the 4-in drained strip, the mulch and the fill are described in the steps and the feature detail but are not modeled. Screw marks are location symbols, not drill sizes. The drawing does not set a slope or load rating.

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02 / CUT LIST AND CONNECTION DETAILS

PART	QTY	FINISHED CUT / PURCHASED COMPONENT
L	2	Long wall (front downhill and back uphill), runs through — 48 × 7.25 × 1.5 in
E	2	End wall, fits between the long walls — 33 × 7.25 × 1.5 in
C	4	Corner post — 7.25 × 3.5 × 3.5 in

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CONNECTION SCHEDULE

Each corner post C sits in an inside corner, flush top and bottom, tight to both walls. Long wall L: two #10 × 3 in screws through the outside face into the post, 3.25 in from the L end, at 1.75 and 5.5 in above the bottom edge. End wall E: two screws 1.75 in from the E end, at 2.75 and 4.5 in above the bottom edge. The staggered heights keep the perpendicular screws apart. The total is 4 corners × 2 faces × 2 = 16 screws. Use a clearance hole through the wall only and a pilot into the post. Clamp each wall to its post while driving.

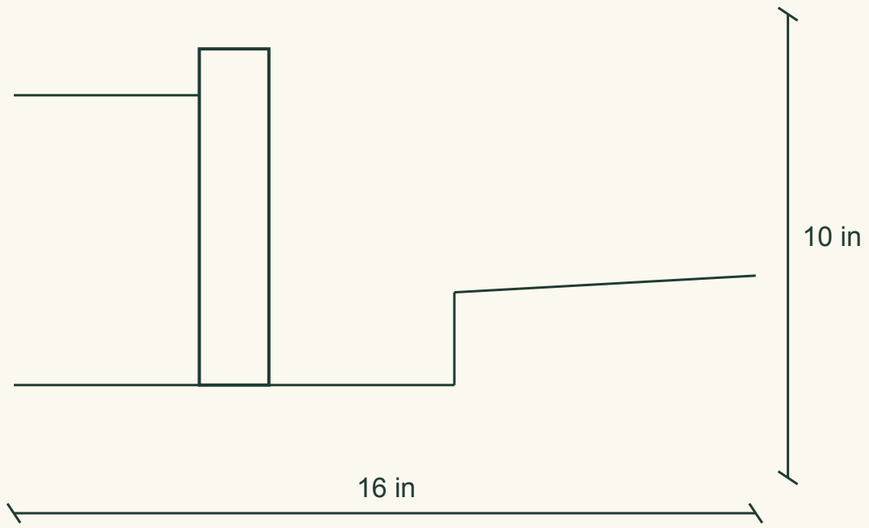
FIT AND LAYOUT CHECK

L runs through at 48 in. E fits between at 33 in. Outside size is 48 × 36 in and inside size is 45 × 33 in. Clear space between posts is 38 in along L and 26 in along E. The rim is 7.25 in high, the fill line 6.25 in and the freeboard 1 in. The back wall stands 4 in clear of the uphill cut face, which is 2 in high at most.

LIMITS

No load rating is assigned. Use only where the fall is 2 in or less across the 36-in depth, on a cut bench. Never build up fill under the downhill wall. Do not add courses or raise the downhill side. Do not let soil bear against the back wall, place the bed against a building, or sit or stand on the rim. Larger falls or a taller bed need a separate reviewed design.

FEATURE CHECK BEFORE ASSEMBLY

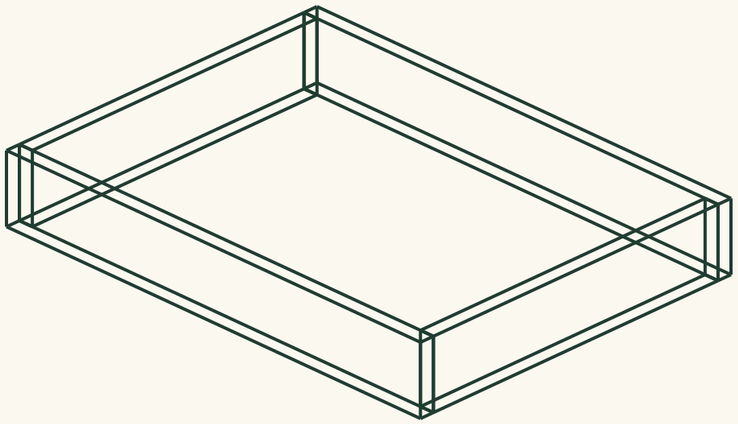


Section through the back wall L1 at midspan. The wall is 1.5 × 7.25 in and bears on the level bench. The fill line is 6.25 in above the bench. A 4-in strip lies behind the wall, then a cut face of 2 in at most rises to the original slope. Confirm on site that the strip drains and that no soil bears against L1. A reviewer must confirm the 2-in limit for the actual soil.

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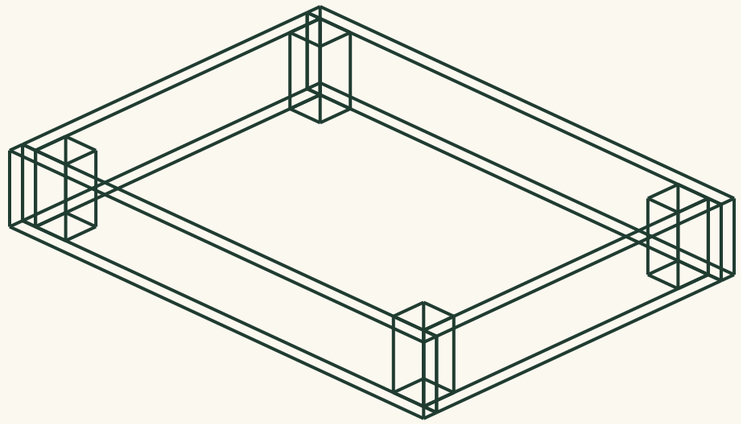
04 / ASSEMBLY STUDIES

STEP 7 / WALLS DRY-FITTED



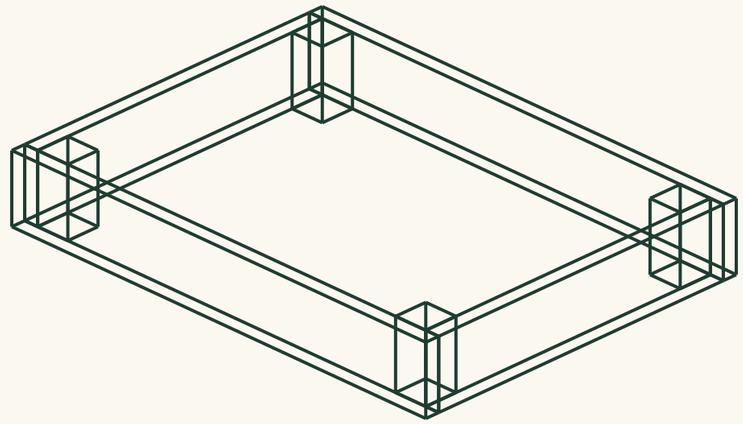
The end walls fit between the through-running long walls and are checked to 60-inch diagonals.

STEP 8 / CORNERS FASTENED



Four flush corner posts take the 16 staggered screws.

STEP 11 / LEVEL ON THE BENCH



The empty frame bears level on the cut bench with the downhill wall at original grade.

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