Open Storage Crate

18 in × 12 in × 10 1/2 in. One sample step from the plan; the full plan has the drawings, cut list, shopping list and every step.

Step 15. Side walls: screw the side slats to the corner cleats

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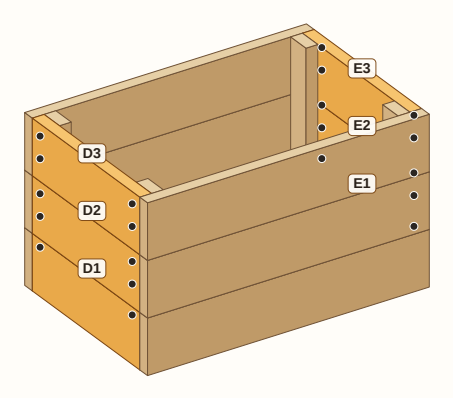

1. Set D1, D2 and D3 between the front and rear walls at the left end, outside face out, against P1 and P2, bottom edges level with the bottom of the walls. Set E1, E2 and E3 the same way at the right end, against P3 and P4.
2. Clamp each side slat in place while you drill and drive its screws.
3. Measure both diagonals across the top, from the outside corner at the front left to the outside corner at the rear right, then the other two corners: the two measurements match within 1/8 in. If not, push the two corners of the longer diagonal toward each other and measure again.
4. 1 screw each, through D1, E1 (the point goes into P1, P3, P2, P4). Mark it 3/4 in from the nearer end of D1, E1 and 3 in from its bottom.
5. At each mark drill a 1/8 in hole through D1, E1, then a 5/64 in pilot 1/2 in deeper into P1, P3, P2, P4: wrap tape on the bit 1 1/4 in from its tip.
6. Countersink each hole with a 3/8 in 82° countersink until the screw head sits flush. Drive a #8 × 1 1/4 in zinc-plated steel flat-head wood screw. Turn it in with the drill; never hammer it.
7. 2 screws each, through D2, E2, D3, E3 (the point goes into P1, P3, P2, P4). Mark them 3/4 in from the nearer end of D2, E2, D3, E3, at 1 3/8 in, 2 3/4 in from its bottom.
8. At each mark drill a 1/8 in hole through D2, E2, D3, E3, then a 5/64 in pilot 1/2 in deeper into P1, P3, P2, P4: wrap tape on the bit 1 1/4 in from its tip.
9. Countersink each hole with a 3/8 in 82° countersink until the screw head sits flush. Drive a #8 × 1 1/4 in zinc-plated steel flat-head wood screw. Turn it in with the drill; never hammer it.

Check: Both diagonals across the top match within 1/8 in. Every head sits flush and no point shows on the other side.

> **Dimensions and assembly sequence checked in the model. This version has not been physically built.**