

Vault Box Construction

Materials List

- (#1) 6x - 36" 2x6 cut diagonally corner to corner.
- (#2) 4x - 24" 2x4
- (#3) 6x - 28" 2x4
- (#4) 4x - 56" 2x4 for a 60" long box; or 68" 2x4 for a 72" long box.
- (#5) 2x - 20" 2x4
- (#6) 2x - 26" 2x4 for a 60" long box; or 32" 2x4 for a 72" long box.
- (#7) 2x - 28" 2x4 for a 60" long box; or 34" 2x4 for a 72" long box.

- (Sides) 2x - 36"x60" or 72" $\frac{3}{4}$ " plywood sheet, depending on length of box.
- (Top) 1x - 24"x x60" or 72" 1" plywood sheet, depending on length of box.
- (Ends) 2x - 36"x36" $\frac{3}{4}$ " plywood sheet.

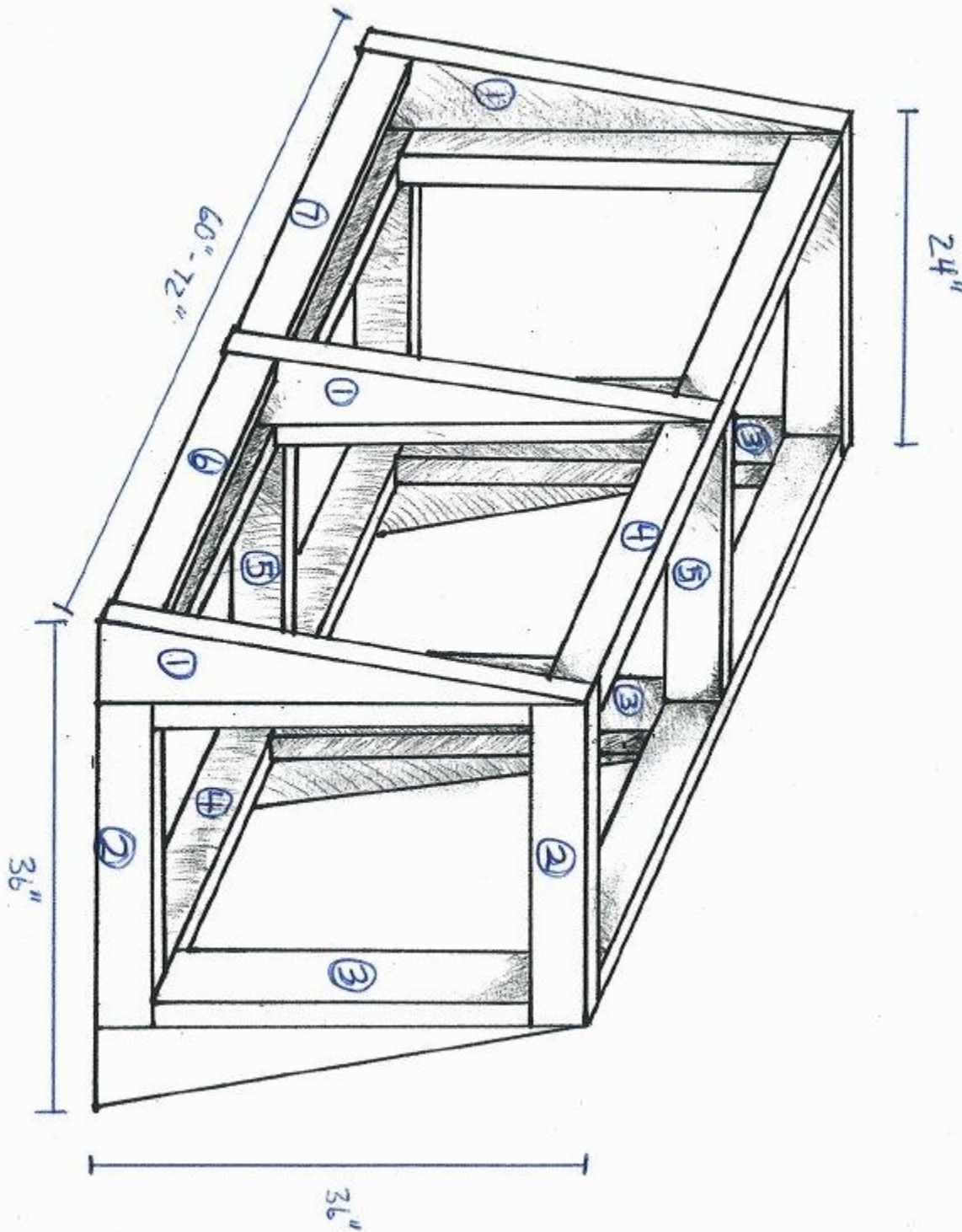
Tools

Hammer and nails, or screwdriver and screws
Saw

Assembling the Vault Box

1. Create the end trapezoids:
 - a. For each trapezoid, two #2 pieces serve as the top and bottom horizontal supports and sandwich two #3 vertical support pieces oriented at 90 degrees (see diagram).
 - b. Given the orientation of the #2 and #3 pieces, the #3 pieces should hang over into the interior of the box. These notches created are for the #4 pieces to rest in.
 - c. Add the #1 pieces on each side.
2. Connect the end trapezoids:
 - a. Add the four #4 lengthwise support pieces to connect the two end trapezoids. These should fit in the notches created in Step 1.b.
 - b. Insert the remaining two #3 pieces in the middle of the lengthwise support pieces, oriented in the same direction as the #3s on the end trapezoids.
 - c. Insert the two #5 pieces, aligned with the middle #3s, oriented in the same direction as the #2s on the end trapezoids.
3. Create the box facing supports:
 - a. Determine the position for the two remaining #1 pieces which will be added to the outside of the box. They should be 26" from the ends (inside face of the end trapezoid) for a 60" long box, or 32" from the end for a 72" box. Add the #1 pieces on each side.
 - b. Add the #6 and #7 footboard pieces, which will support the exterior facing plywood. Slide them between the triangular feet tilted slightly inward in order to follow the angle of the diagonal, with the bottom inside edge flush with the ground.
4. Create the box facing:
 - a. The sides and ends can be finished in $\frac{3}{4}$ " plywood. The ends are optional but recommended.
 - b. Add the ends and sides first, trimming as necessary to be flush with the ground and to create a flush surface for the top.
 - c. The top should be finished using 1" plywood. The top may also be painted or covered with different materials to prevent wear, splinters or to provide a more comfortable vaulting surface.

Vault Box Diagram



Design by Brian "NoSole" Orosco of SF Parkour and Team Tempest.
Please send any comments, suggestions or feedback to corndogg@sfparkour.com