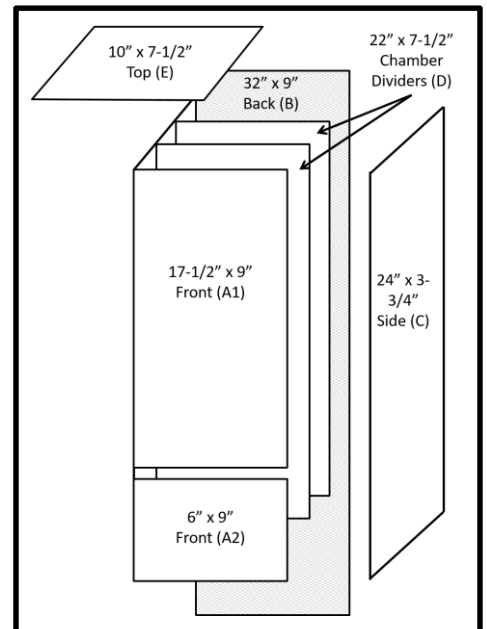


# Bat Box Building Instructions

## Important:

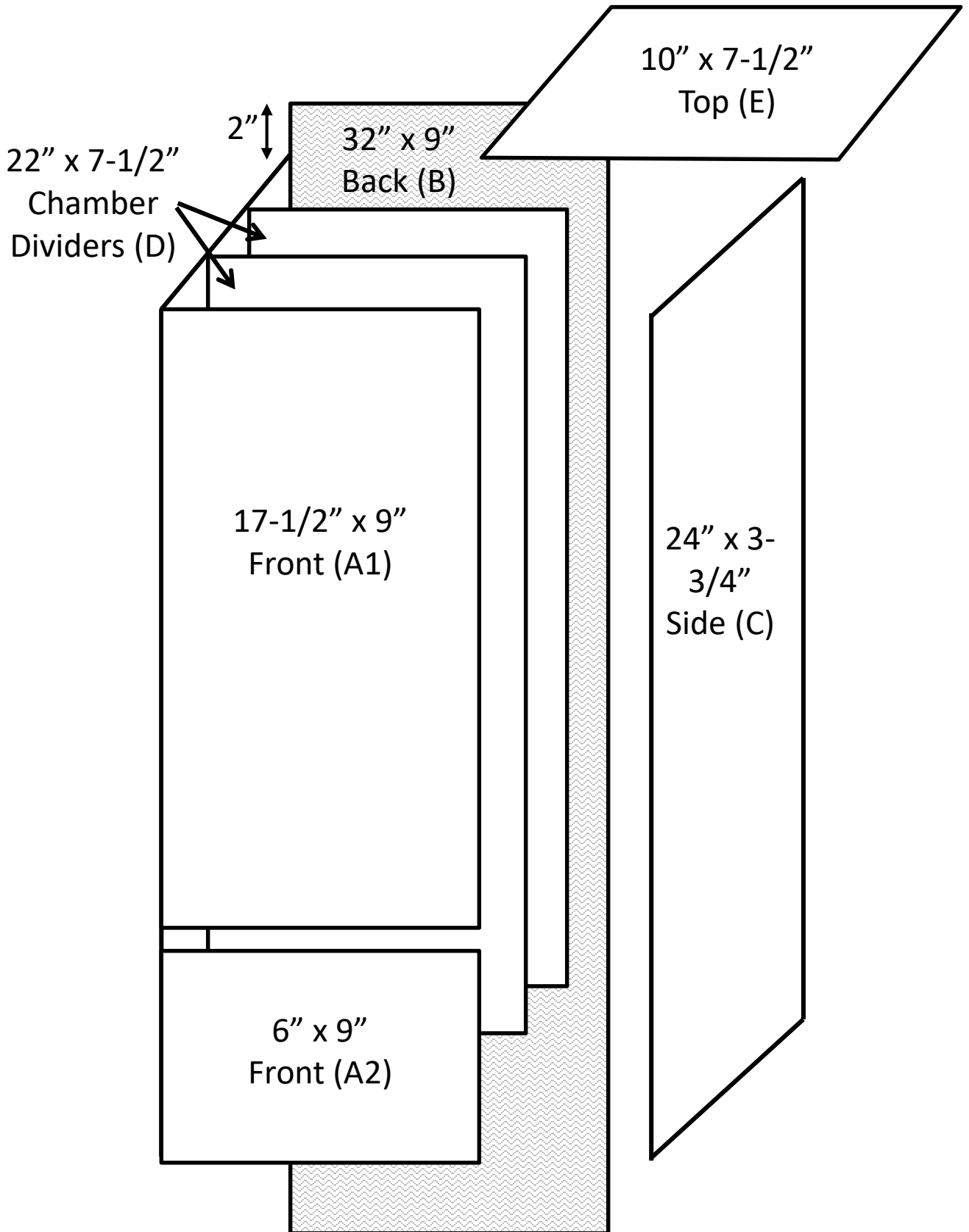
- This box will hold ~100 bats
- Mount it 12–15' above ground in a sunny location
- Recommend using 2" spacing between nails
- Use **silicone** to caulk ALL exterior joints!



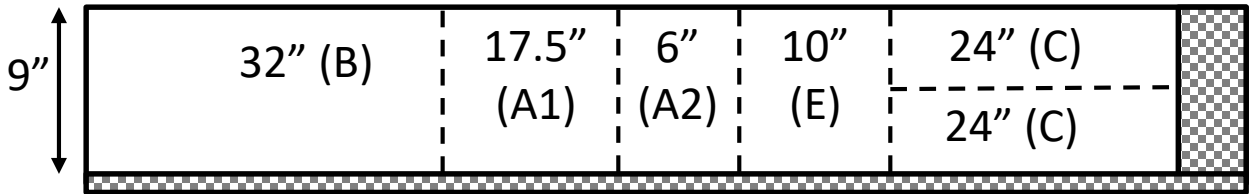
## Instructions:

- Rough up inside of front (A1, A2), back (B), and center (D) boards with **knife** or **screwdriver**
- Use **sandpaper** to smooth edges of boards
- Attach front (A1) and 1 side board (C) 2" from the top of the back (B) board (use **wood glue**, then **nails**)
- Attach 2<sup>nd</sup> side board (C)
- Slide 1 center board (D) in and use spacers (roof or extra wood) to fix crevice widths; nail board D to sides
- Repeat the above step for the 2<sup>nd</sup> center board (D)
- Attach roof with nails; **4 screws** could be used to secure/flatten
- Sand top of roof to promote water runoff
- Caulk edges around roof with **silicone**
- Use 2 coats of non-toxic, exterior **paint and primer**

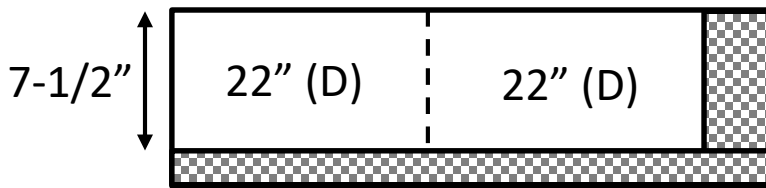
Figure 1. Basic Bat Box Design



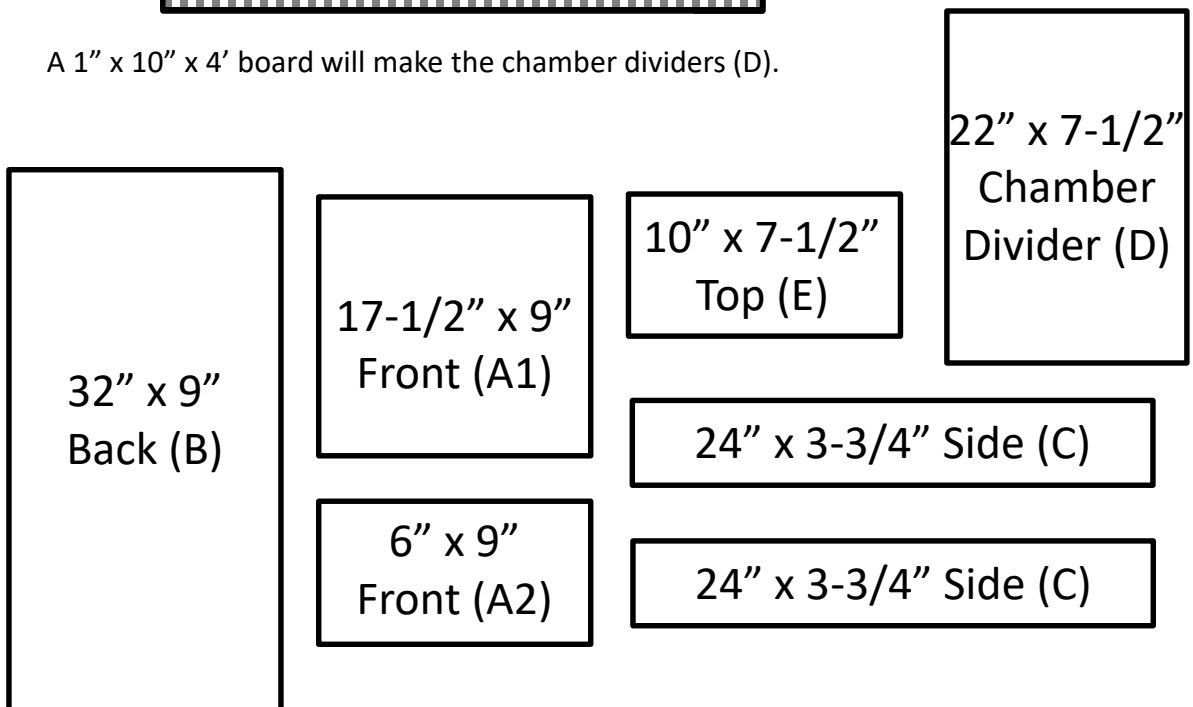
## Bat Box Boards and Cuts



A 1" x 10" x 8' board will make the back (B), fronts (A1, A2), sides (C) and top (E) of the bat box. Leftover wood is denoted by the checkered pattern. We recommend using pine or plywood. Do not use treated lumber.



A 1" x 10" x 4' board will make the chamber dividers (D).



Use a utility knife to score the interior facing side of the front, back, and chamber divider boards or cut transverse ridges into wood. Do not use cloth mesh or screening as it can obstruct the entrance to the bat box and trap bats. The chamber dividers should be 1" away from the top board and will not extend to the bottom of the bat box. Spacing between the dividers should be  $\frac{3}{4}$ ".

# A few notes

- Use pine boards rather than plywood. Note that boards are actually smaller than advertised (e.g., 12" board is really 11.5"), but these plans use the advertised sizes.
- Finishing nails are provided (easy to sink into wood, so no popping later). Eventually these will rust, but will be less likely to do so if the box is painted.
- Instead of nails, you could use 1 ½" deck screws all around, but this will require a drill and a pre-drill bit.
- Takes about 30 minutes to put a box together if all the pieces are ready beforehand.