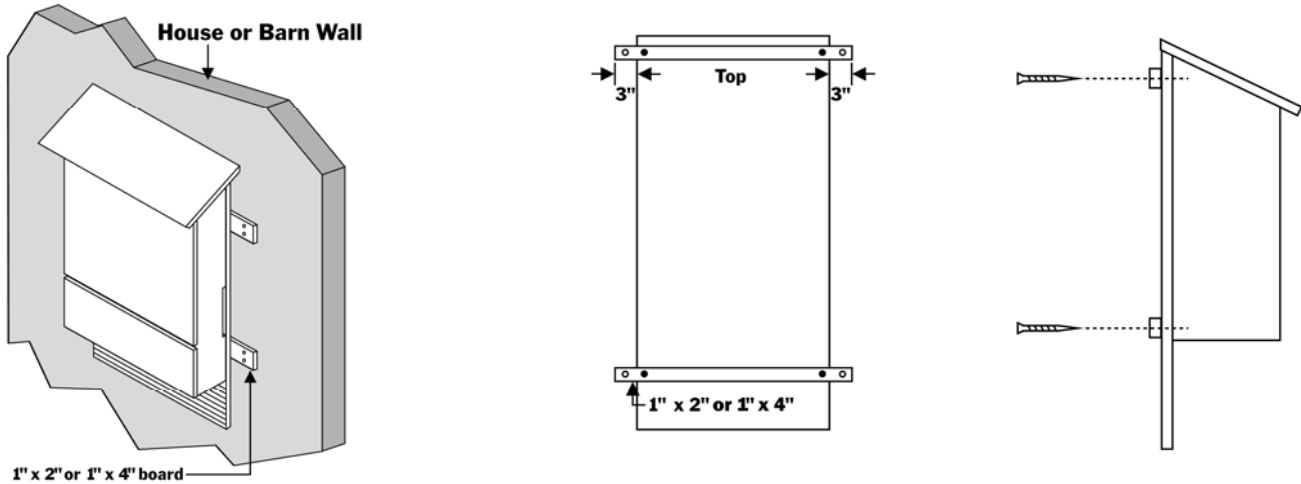


## SINGLE BAT HOUSE ON A BUILDING (Horizontal Rails)



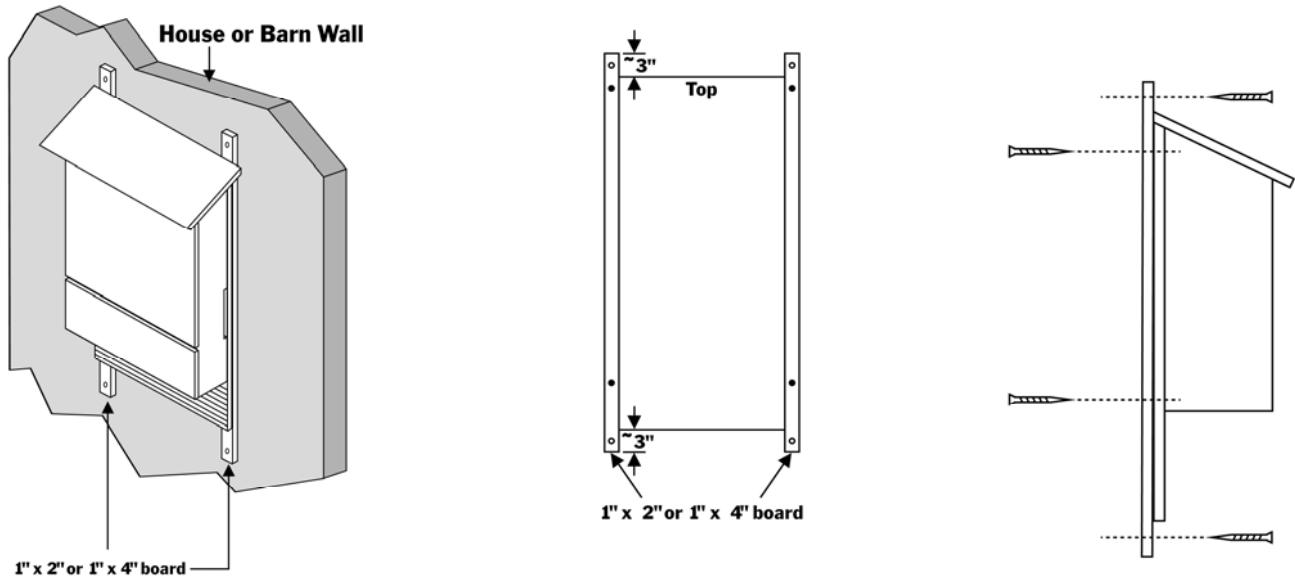
### You Will Need:

- [2] 1x2" or 1x4" wooden boards  
(at least 6" longer than the width of your bat house)
- [4-8] 1 1/2" exterior grade screws
- [8] 2" exterior grade screws
- [1] 3/32" bit (to pre-drill screw holes)
- [1] Exterior grade adhesive caulk (optional)
- [2-4] Wood clamps or spring clamps
- [1] Tape measure, Pencil, Electric Drill

### Basic Instructions:

- 1) Determine on your building where you will hang the bat house. Make measurement to determine how far apart your screws must be to ensure the bat house is attached to solid material (solid wood or masonry) not siding (e.g. aluminum siding or hardi-plank). This might alter ALL the measurements below.
- 2) Cut each rail (1x2" or 1x4" board) to a length at least 6" longer than the width of your bat house.
- 3) Measure and drill pilot holes to ensure screws will attach securely to the bat house frame and do not protrude inside the bat house roosting crevices. The bat house frame typically extends down the sides and along the top 1 1/2".
- 4) Apply adhesive caulk (optional) between the rail and the bat house and attach the rails to the bat house using 1 1/2" screws. You may want to clamp the rails prior to drilling to ensure they stay in place. Pre-drill the rails where they extend beyond the bat house according to your measurements in step #1.
- 5) Hold your bat house in place on the building and attach using 2" screws.

## SINGLE BAT HOUSE ON A BUILDING (Vertical Rails)



### You Will Need:

- [2] 1x2" or 1x4" wooden boards  
(at least 6" longer than the width of your bat house)
- [4-8] 1 1/2" exterior grade screws
- [8] 2" exterior grade screws
- [1] 3/32" bit (to pre-drill screw holes)
- [1] Exterior grade adhesive caulk (optional)
- [2-4] Wood clamps or spring clamps
- [1] Tape measure, Pencil, Electric Drill

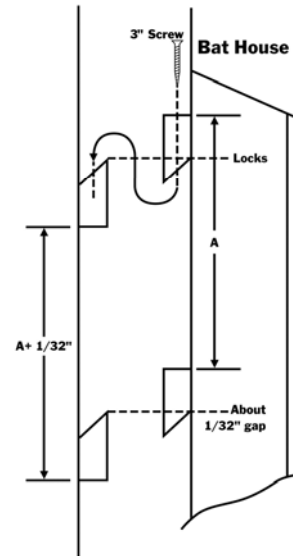
### Basic Instructions:

- 1) Determine on your building where you will hang the bat house. Make measurement to determine how far apart your screws must be to ensure the bat house is attached to solid material (solid wood or masonry) not siding (e.g. aluminum siding or hardi-plank). This might alter ALL the measurements below.
- 2) Cut each rail (1x2" or 1x4" board) to a length at least 6" longer than the length of your bat house.
- 3) Measure and drill pilot holes to ensure screws will attach securely to the bat house frame and do not protrude inside the bat house roosting crevices. The bat house frame typically extends down the sides and along the top 1 1/2".
- 4) Apply adhesive caulk (optional) between the rail and the bat house and attach the rails to the bat house using 1 1/2" screws. You may want to clamp the rails prior to drilling to ensure they stay in place. Pre-drill the rails where they extend beyond the bat house according to your measurements in step #1.
- 5) Hold your bat house in place on the building and attach using 2" screws.

## SINGLE BAT HOUSE ON A BUILDING (French Cleats)

### You Will Need:

- [2] 2x4 boards cut to the width of your bat house (used to make cleats)
- [8] 1 5/8" exterior grade screws
- [1] 3" exterior grade screw
- [6-8] 2" exterior grade screws
- [1] 3/32" drill bit & countersink to pre-drill holes
- [1] Exterior grade adhesive caulk
- [2-4] Wood clamps or spring clamps
- [1] Tape measure, pencil, electric drill
- [1] Table saw with tilting blade



### Basic Instructions:

- 1) Cut the 2x4 at a 45-degree angle on table saw to make the cleats.
- 2) Position top cleat centered on the bat house with top flush with the body of the bat house (as shown), not flush with the roof.
- 3) Clamp cleats to the bat house, then mark and drill pilot holes to attach the cleats to the bat house. Make sure screws will embed into the frame of the bat house and do not protrude into the roosting cavity. The bat house frame typically extends down the sides and along the top 1 1/2".
- 4) Apply adhesive caulk between the cleats and the bat house before installing screws. Install 1 5/8" screws to secure cleats to bat house.
- 5) Drill vertical center pilot hole all the way through the top cleat for the 3" screw. Drill and countersink pilot holes on the remaining cleats where they will attach to the building, it is important to countersink the pilot holes so the cleat will be flush against the bat house. Be sure you space pilot holes so they will drill into wall studs or other solid material on the building, NOT siding (e.g. hardi-plank or aluminum siding).
- 6) Install the top cleat on the building first using 2" screws. Measure the distance carefully from the top of the upper cleat to the top of the lower cleat (A). Bottom cleat placement is important, add 1/32 to 1/16 inch to your original measurement (A) and use this measurement (A + 1/32") to install the lower cleat. This ensures that the bat house weight is hanging on the top cleat while the bottom cleat catches and retains the lower portion of the bat house.
- 7) Hang the bat house to check fit and cleat placement before securing the 3" screw. Reposition the bottom cleat if it is holding the bat house weight.

\* mounting design and instructions adapted from *Habitat for Bats bat house manual* courtesy of Robert Ball ([www.habitatforbats.org](http://www.habitatforbats.org))