



Here are the tools, materials, cut list, and build steps you'll need to construct your own butterfly house.

TOOLS

Jigsaw
Drill
Miter saw
Tape measure
Pencil
Eye and ear protection
Sandpaper
 $\frac{7}{8}$ in. spade bit
 $\frac{3}{8}$ in.-diameter drill bit
Pliers
Clamps

CUT LIST

Take the 1 in. x 6 in. x 10 ft. board and make the following cuts:

- A. (2) $\frac{3}{4}$ in. x 5 in. x 2 ft. front and back boards
- B. (2) $\frac{3}{4}$ in. x 5 in. x 6 $\frac{1}{4}$ in. roof boards
- C. (2) $\frac{3}{4}$ in. x 3 $\frac{3}{4}$ in. x 22 $\frac{1}{4}$ in. side and door boards
- D. (1) $\frac{3}{4}$ in. x 3 $\frac{3}{4}$ in. x 3 $\frac{1}{2}$ in. bottom board
- E. (2) $\frac{3}{4}$ in. x 1 $\frac{1}{4}$ in. x 3 $\frac{1}{2}$ in. support pipe stop
- F. (2) $\frac{1}{2}$ in. x $\frac{3}{4}$ in. x 3 $\frac{1}{2}$ in. false front roof

MATERIALS

(1) 1 in. x 6 in. x 10 ft. board
(25) 4d galvanized casing nails
(1) $\frac{3}{4}$ in.-diameter type L copper pipe
(1) $\frac{3}{4}$ in. copper pipe strap
(2) No. 8, $\frac{1}{2}$ in. pan head screws
Moisture-proof wood glue

Then, make the following cuts:

- Take the (2) $\frac{3}{4}$ in. x 5 in. x 2 ft. front and back boards and cut the top of each board to form a 90° peak.
- Take the (2) $\frac{3}{4}$ in. x 5 in. x 6 $\frac{1}{4}$ in. roof boards and cut a 45° bevel off one side of each board.
- Take the (2) $\frac{3}{4}$ in. x 3 $\frac{3}{4}$ in. x 22 $\frac{1}{4}$ in. side and door boards and cut a 45° bevel off one end of each board.
- Take the (2) $\frac{1}{2}$ in. x $\frac{3}{4}$ in. x 3 $\frac{1}{2}$ in. false front roof boards and cut a 45° angle off one side of each board.

BUILDING STEPS

1. Cut the parts to length, according to the cut list above.



2. Sketch out the entry slots for the front board. Drill out the ends with the $\frac{3}{8}$ in.-diameter drill bit.



3. Cut out the rest of the entry slots with the jigsaw. Smooth the sides of the slots with sandpaper.



BUILDING STEPS

4. Take one of the support pipe stops and the $\frac{7}{8}$ in. spade bit. Drill a hole for the support pipe, lined up in the middle and slightly overlapping with the side.



5. Repeat step 4 with the bottom board.



6. Take the back board and glue and nail it to one of the side boards, forming a 90° angle, with the bevel facing outward.



BUILDING STEPS

7. Glue and clamp the two support pipe stops together, then glue and clamp them to the back board, 6 in. from the bottom. Ensure the board with the hole is oriented toward the bottom and the hole is flush with the back board.



8. Glue and nail the bottom board to the assembled back and side, $\frac{5}{8}$ in. from the bottom.



9. Glue and nail the front board to the assembly.



BUILDING STEPS

10. Align the door between the front and back boards, ensuring the bevel is facing outward, and hammer in the two hinge pivot nails. (If necessary, trim the door so that it loosely fits between the front and back.)



11. Attach the roof boards using galvanized casing nails.



12. Use pliers to bend a nail in half to form the latch. Drill a pilot hole and hammer in the latch.



BUILDING STEPS

13. Slide the support pipe through the bottom and into the pipe stop.



14. Drill pilot holes in the bottom of the back board. Attach the pipe strap around the support pipe, and to the back board, using the pipe strap screws.

