

How to build a plastic mushroom hut with MORE EcoBricks

Step 1: Choose the place and size for the mushroom hut.

The size of your Mushroom Hut depends on the number of mushrooms you wish to grow in a year. EcoBricks can be used to build a wide range of hut sizes. Huts can be made square or rectangle. (The building needs to be properly sized with an AC unit that will keep your hut at 70 degrees Fahrenheit year-round.) Once the size of your hut is determined, measure and mark your guidelines along the ground where you will dig your footer foundation for the walls. In this example we use a plan which is 8 feet by 13 feet outside dimensions and 7 feet at the highest point.



Level the ground completely flat.

Mark the foundation and dig area out.



Fill the foundation with motor as shown.



Lay ecobricks in the cement mortar.



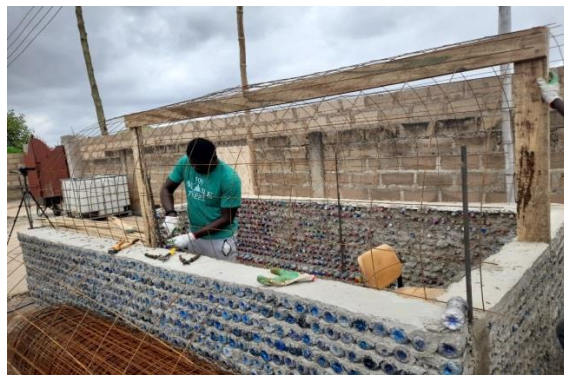
Carefully layer the EcoBricks on top each other to create walls as shown.



One EcoBrick is a 500ml bottle packed with 50 sachet water bags

Step 2: Creating the foundation for the EcoBrick walls:

You will need 12 inches wide and 2 inches deep footer filled with cement to support the EcoBrick walls. In this example you will need a ground area of 10 feet by 18 feet and place your hut in the center of this space. In this 8 ft x 13 ft size hut you will be able to grow 2000 Kilos of Mushrooms a year (4400 pounds).



Lay the walls of the plastic Hut with EcoBricks to the level of 3 feet tall as shown.



Form the arch with 3 x3 inch wire over the top of the ecobricks walls as shown. Create a roof ridge beam to support the motor while it dries.



Roll the 3 x 3 wire over the top of the wood ridge beam as shown and cover the 3 x 3 wire with ½ inch square wire to hold the motor and EcoBricks in place on the roof.

Step 3: Building your Plastic Hut:

The plastic hut is a completely enclosed building. The foundation should be two inches deep and one foot wide to support the 4 outside walls. Eco-bricks are carefully stacked to create a 3-foot-high wall. You will need 2 sheets of 3x3 inch square wire (15 gauge) 8ft x 14ft. One roll of wire 4 ft x 100ft with 1/2 inch squares. The entire building is one single monolithic unit with the walls and roof merging as one surface as shown. Stagger the eco-bricks as you lay them using a thin layer of cement to hold in place. Create wood frame for the 2.5 feet wide and 4 feet high entrance and a small wood frame for the AC opening next to the door sized for the 1/4 ton AC (6,000 BTU's) unit.



Both wire nicely installed over the entire walls to form arch as shown.



Fill in end walls with EcoBricks



Frame a door as shown.



Carefully lay EcoBricks on top of the $\frac{1}{2}$ " wire to form the roof as shown.



Create the AC unit and door as shown

Step 4. Coating and finishing the building:

The entire building is parged with a skin coat of cement mortar. The inside is coated with white plaster. The final coat outside will be painted with reflective paint when the cement has dried. Covering the entire building with a shade sun block tarp will reduce AC running costs as well. Or build it under a large shady tree.



The plastic Hut is ready for plastering as shown



Plaster the entire building with mortar and fix door as shown.



Paint the entire building with reflective paint and cover with tarp or build your Mushroom Hut under a big tree.

Step 5. Fix AC and hatch door.

An air conditioner is needed to keep the inside temperature of the plastic Hut at 70 degrees Fahrenheit for maximum yield and all year harvest. The door does not need hinges just a friction fit as shown in photo. Notice the angle of the cut of the door foam.



Fix the AC and door as shown



500 mushroom neatly parked parked inside the plastic Hut as shown



Freshly harvested



Neatly packaged



Mushroom weighed and packaged in sealed bag as shown.

6) MATERIALS NEEDED AND PRICES IN 2023

You will need 4000 MORE Eco-bricks, 15 bags of cement, 4 x 100 square feet of chicken wire and pieces of 3 x 3inch square wire mesh. Door foam and silver paint. AC unit and wood, and door handle.



One roll of 4 feet 100 feet Half square wire



15 bags of 50kg cement



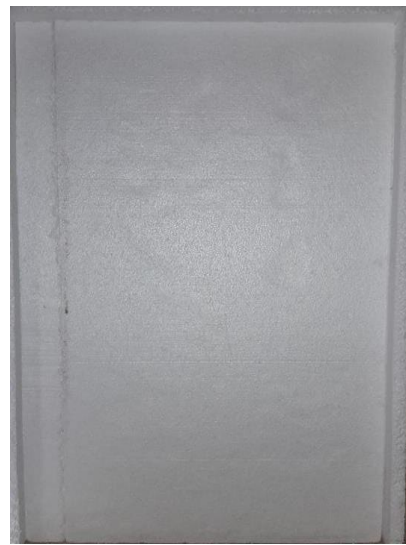
4 pieces) 4 x 4 woods



one wooden handle for door



One roll of 3 x 3 square 14 gauge wire



5 feet x 2 and half x 4 inches
thick EPS foam



Two gallon of 10 liters reflective paint



3 pounds nail 4 inches