

AIR SAMPLING BOX

Planter Box

Shopping List:

24-inch window box PLANTER: \$8-\$10

24-inch window box TRAY: \$1

24-inch zip ties: \$5/bag

Binder clips, medium: \$2/box of 12

Household Items:

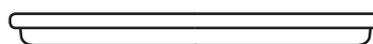
Box knife/Exacto knife

Ruler

Marker



Planter



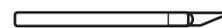
Tray



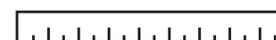
Zip Ties



Binder Clips



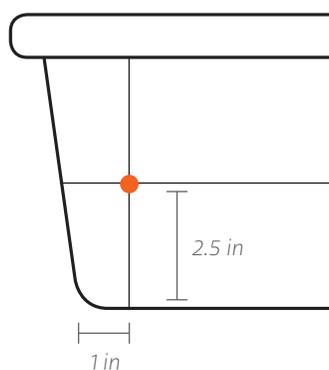
Exacto Knife



Ruler



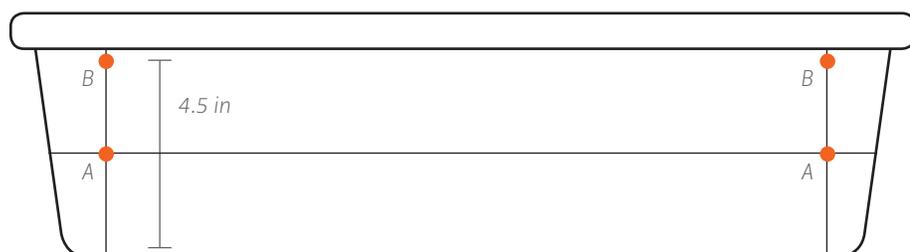
Marker



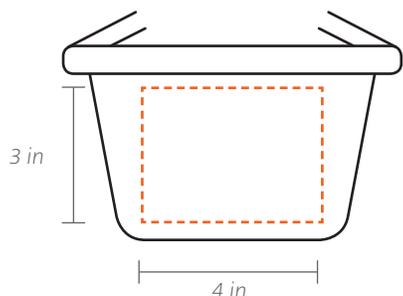
STEP 1:

Using the ruler, make the following marks on the long sides of the planter box:

- Draw a vertical line 1" from the side of the PLANTER.
- Measure 2.5" from the bottom of the PLANTER and draw a horizontal line.
- Measure 4.5" from the bottom of the PLANTER and draw a horizontal line.
- Draw circles where the line intersect.
- From the bottom of the box, find the 1 inch mark. Measure 4 1/2 inches high, and mark that spot with a circle.
- You should have 8 circles.

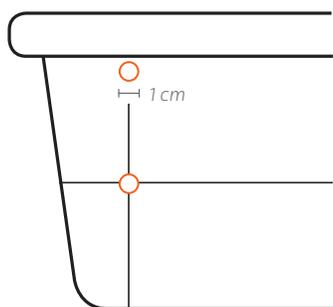


AIR SAMPLING BOX: Planter Box



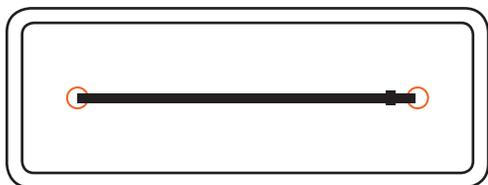
STEP 2:

On a short end of the PLANTER, draw a rectangle that is 4x3 inches. (Use a piece of paper to trace the box onto the PLANTER.) Use the box cutter to cut out the square, leaving the rim of the planter intact. Do this on only one end of the box.



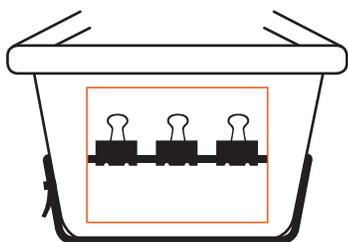
STEP 3:

Using the tip of the box cutter, begin rotating the blade to slowly carve a hole at each of the 8 circles. Make the hole about 1cm in diameter.



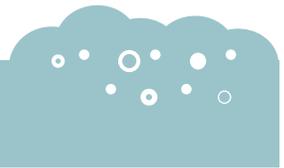
STEP 4:

Pop out the two drainage holes on the bottom of the PLANTER. Connect two zip ties together and run through the drainage holes. Pull tight and cut off the excess zip tie.

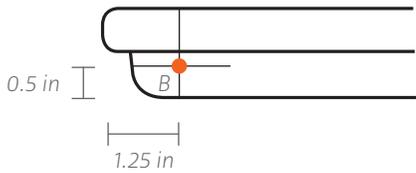


STEP 5:

Run a zip tie through the A set of holes on the PLANTER and secure. Cut off the excess zip tie. Place 3 binder clips on each zip tie. Set the PLANTER aside. (This is where you will hang the sampling material).



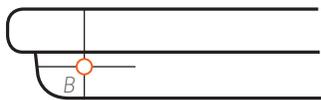
AIR SAMPLING BOX: Planter Box



STEP 6:

Using the ruler, make the following marks on the long sides of the TRAY:

- Draw a vertical line 1.25" from the sides of the TRAY.
- Measure 0.5" from the bottom of the TRAY and draw a horizontal line.
- Draw circles where the lines intersect.
- You should have four circles.



STEP 8:

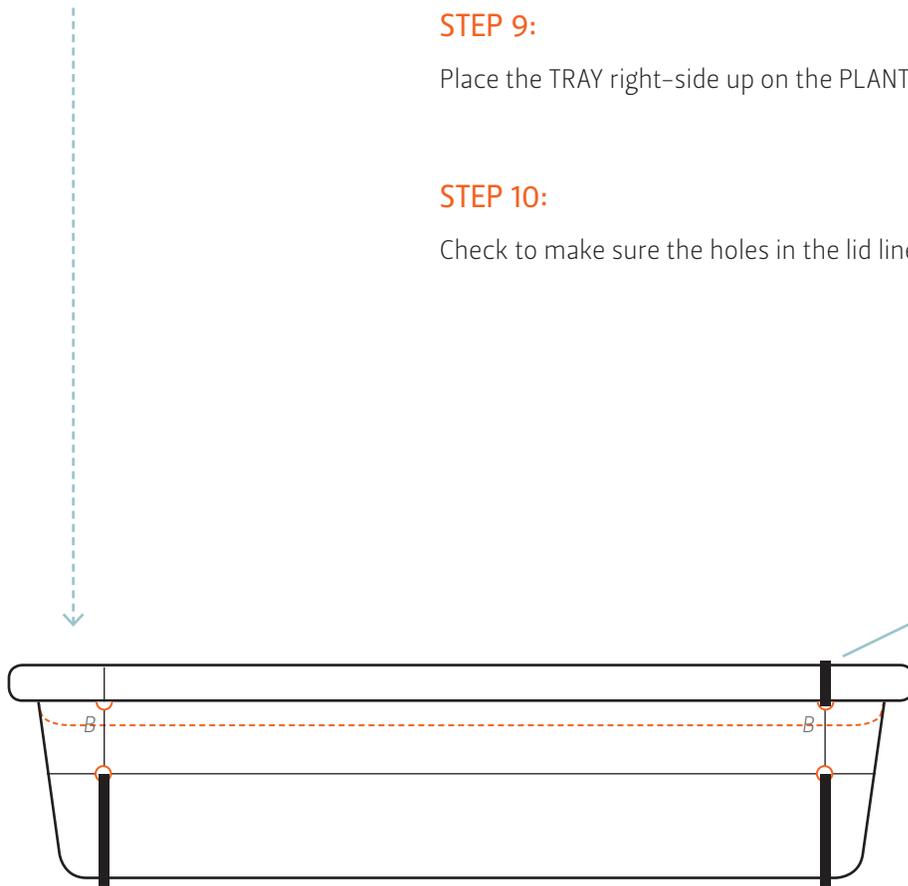
Using the tip of the box cutter, carve a hole at each of the four circles.

STEP 9:

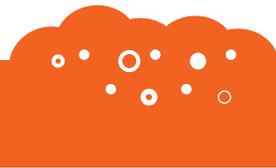
Place the TRAY right-side up on the PLANTER to create a closed box.

STEP 10:

Check to make sure the holes in the lid line up with the holes in the box.



You can check if the holes line up by running a small zip tie through both holes.



AIR SAMPLING BOX: Photo Reference

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