



## The magic bag



### The basics

First you need the basics of how anti shoplifting devices work. At this website: [HowStuffWorks](http://HowStuffWorks) you can see in great detail how it works.

Now you know how anti shoplifting devices work were going to make a bag wich defeats those devices!

### Principal of the magic bag

The magic bag works by blocking the signals that come from those pillars near the entrance. Because the magic bag is made from alluminium foil the "ray's" of the anti-shoplifting device can't detect if you have stolen anything (because they don't see the anti theft tag).

### Building the magic bag

Ok lets begin: First the things you need (picture 1)

Picture 1



**1: A bag, just an ordinary bag big enough for your "magic bag"**

**2: Alluminium foil, just basic foil which you can buy in the supermarket.**

**3: Glue, you need that for glueing the alluminium foil together, you can use ordinary glue.**

**4: Tape, this will be used to tape the alluminium foil together and is also used to protect it, I used clear tape but duct tape will also work I guess.**

**5: Scissors, to cut the foil and tape.**

**6: Brush, to distribute the glue on the foil.**

## **Making the bottom**

**First we will make the bottom of the magic bag, so get the bag where you want to put your "magic bag" in, and measure the bottom of it. Lets say the bottom measures 30 cm by 10 cm, if we want to fit our bottom into that bag we will have to make it a little smaller, so we will make our bottom 28 cm by 8 cm.**

**We also want the bottom to look like this: (picture 2)**

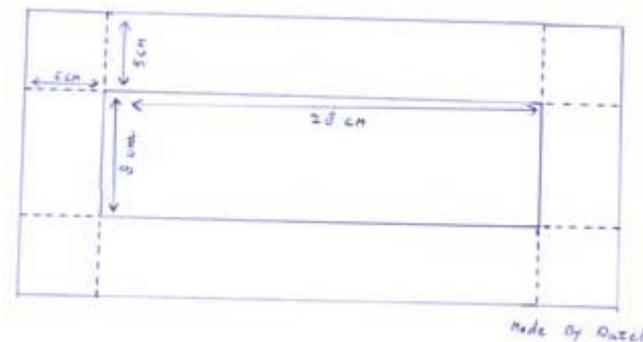
**Picture 2**



As you see the bottom has sides on it, so the bottom is not a flat piece of alluminium foil.

In order to make a bottom like that one (picture 2) you got to have "flaps" on it, that is the side sticking up. We want the sides to stick up 5 centimeters, so we got to add 5 centimeters to all sides (left, right, top and bottom. Picture 3 is is a sketch of the measurements.

Picture 3



So for our magic bag we need a 38 cm by 18 cm piece of alluminium foil ( $28+5+5=38$  and  $8+5+5=18$ ) 😊

Lay the piece of alluminium foil on the ground an grab a bottle of glue, now spread a good amount of glue on the piece of foil (picture 4)

Picture 4



**And with your brush smear the glue equally over the foil, especially the edges. Now get your second layer of foil (exact the same size as the first on) and lay it over the first one, which is covered in glue, do this carefully so there are no "ripples" in the foil (picture 5).**

**Picture 5**



**Now repeat this process till you have glued 10 pieces of foil together (picture 6). It will take some time till you glued all 10 pieces together, around 30 minutes.**

**Picture 6**



Now you have a **THICK** piece of alluminium foil 😊, as you have noticed by now the thick piece handles alot better then a single layer of alluminium foil.

But we want to protect the thick layer from sharp materials, because if you put for example a cd case in the bag, the edges of the cd case could cut the alluminium foil, offcourse we don't want this to happen so we will cover the alluminium foil with tape.

First we will tape the edges (picture 7) and then we will tape the entire layer of foil.

**Picture 7**



You take a piece of tape that is long enough to stick a little out at he edges (picture 7), and put the lower half on one side of the alluminium, and then fold it over to the other half (picture 😊)

**Picture 8**



**Now continue this till you have taped all the edges. Now you notice that the layer of alluminium foil handles alot better now, but your not done yet because we want the entire layer of alluminium coverd in tape (picture 9)**

**Picture 9**



**Now it feels really stiff, but it can still be bent in any form you want. Now we are done with all the taping and glueing for the bottom, now we are going to shape it.**

**First resize it so you know how to fold it, i used the bottom from the bag (picture 10).**

**Picture 10**



**Now we are going to fold it into place, but you have make 4 cuts in the layer (picture 11)**

**Picture 11**



**Now fold it together so that is looks like picture 12, and glue & tape it together so it is a firm construction.**

**Picture 12**



## Making the sides

Now we are done with the bottom we will continue with the sides, first we determine how high the sides must be. Lets say the bag you are planning to use is 30 centimeters high then we will make the side around 25 centimeters high.

We will make the four sides out of one long 30 centimeters high piece of alluminium foil, to determine how long it must be you have to measure the four sides of your bottom (of the bag, not your ass) our example bottom has 2 sides of 28 centimeters and 2 sides of 8 centimeters so that adds up to  $28+28+8+8=72$  centimeters for extra security add an extra 5 centimeters, so you will have a layer wich measures 77 centimeters by 30 centimeters (picture 13)

Picture 13



Now just glue 10 layers of 77 by 30 centimeters of foil together (picture 14) and then cover them in tape, I know it takes a long time.

Picture 14



**Ok now you got to fold this long layer into size so you can put it around your bottom (again not your ass) as in picture 15.**

**Picture 15**



**You have to glue the sides to the bottom ONE BY ONE, you must allow it to dry, and for extra security tape the bottom and the sides together. Now if you have don that i shoul look like picture 16**

**Picture 16**



**Now that starts looking like a bag, eh? Next stop, the top.**

### **Making the top**

**Now we got a good looking bag, we also want a good looking top to seal it off.**

**The top is very similar to to bottom, you can use your measurement you use for the bottom, but is a little different (picture 17)**

**Picture 17**



**But you have to let the top be able to clap open, as in picture 18.**

**Picture 18**



**In picture 19 you can see how your bag should look like when closed.**

**Picture 19**



**Well that was the making of the magic bag all you got to do now is to put it in a real bag, now hope that you got the measurements right, and put the magic bag in the ordinary bag (picture 20)**

**Picture 20**



**In picture 21 you can see the same one as in 20 but now with the top open.**

**Picture 21**



**You can test your bag by putting a cellular phone inside it and dial the number, if your bag works the cellular won't ring.**

**Now your ready to go shopping 😊.**



## **Sidenotes:**

**You can make a magic bag in any size you want, you don't have to put it in a bag, you can sew a small one in your jacket or pants, be creative.**

