

How to Build a Counterweight

January 2012



Materials List:

Available from Home Improvement stores (e.g. Home Depot, Lowes)

- 4" PVC cap
- 4" PVC clean out end (slides into cap)
- 4" PVC Plug
- 1/4" x 4 1/4" clothes line hook (e.g. item #202183409 at Home Depot)
- PVC cement
- Masking tape

Available from Outdoor Sporting stores (e.g. Bass Pro Shops, Gander Mountain)

- BB's or lead shot (typically sold in 25lb bags or 8lb jugs)

Tools Needed:

- Saw
- Drill with 1/4" bit
- Ruler
- File

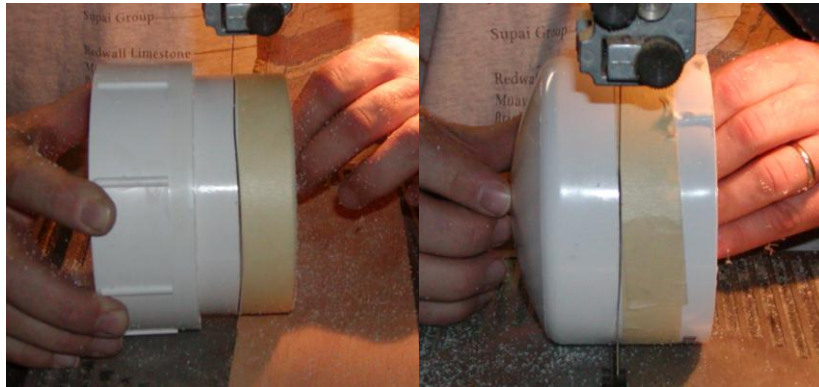


Instructions:

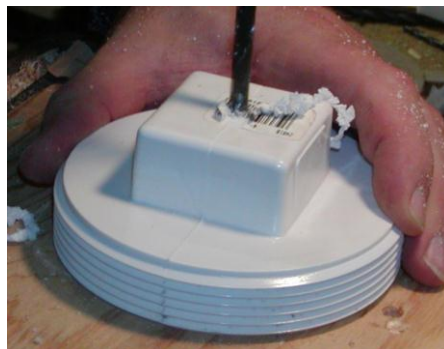
1. Test that the plug screws all the way into the clean out so you cannot see any threads (if not the counterweight will be too tall and you should try a different plug or cleanout).
2. Mark the cap and clean out using masking tape so you can cut them shorter (1-1/8" off the clean out, 1-5/8" off the cap). It is better to cut off too much than not enough.



3. Cut the two pieces using a hack saw or band saw.



4. Drill a 1/4" hole in either the cap or the plug.



5. Run a file over all the rough edges where you cut the PVC
6. Assemble the cap to the clean out with PVC cement by coating both the inside of the cap and the outside of the cleanout with cement then quickly pushing them together. The cement will set very quickly, so make sure to push them together well.
7. Secure the hook to the cap or the plug depending on where you decided to put the hole.
8. Fill the cap/clean out assembly with BB's or lead shot and screw on the plug.
9. If assembled correctly it should be just under 15 cm tall.