

Constructing the Ozone Monitoring Station

Materials List

The materials needed to construct the Ozone Measurement Station can be purchased at a local hardware store.

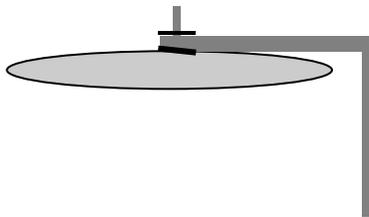
- 1 30 cm plastic disk for a roof guard
- 1 20 cm (8") Corner bracket
- 2 1 cm x 6 1/2cm (3/8" x 2 1/2")eye bolt
- 1 1 cm (3/8") rubber washers
- 1 4 Links of 1 cm (1/2") stainless steel chain
- 1 6 cm Breeching snap (2 5/16") that opens wide enough to clip on eye bolt



- 1 2 cm (1 1/4") Binder Clip
- 1 Can almond colored Rust-oleum protective enamel paint

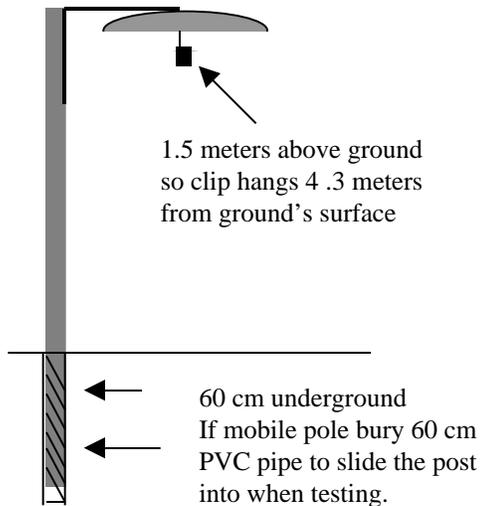
Directions for Construction

1. Re-drill the hole in one end of the corner bracket to fit the screw eye through. (original hole is tapered)
2. Spray paint all metal pieces with Almond Colored Rust-oleum.
3. Place one washer on the eye bolt.
4. Place the 30 cm plastic disk on top of the eye bolt with the curve side facing up.



5. Place the eye bolt through the drilled hole of the bracket and washers, and secure it with a nut.

Attach the roof to a 2 1/2 meter wooden post and place 60 cm securely into the ground or attach it to a mobile post that fits into a 60 cm section PVC pipe buried in the ground.



Making the Chain Clip

1. Use needle nose pliers and open one link on the end of the chain to slide over the narrower end of the breeching snap.
2. Use the pliers to wrap the open link around the clip firmly.
3. Open the link on the opposite end of the chain and attach it to one handle of the 1 1/4" binder clip. Close the link securely.
4. When you are ready to use the clip, attach your chemical strip and clip it to the eyebolt.
5. Bring the chain with the clip back to the classroom after each test.

The ozone measurement station is designed to provide some protection from rain and snow. The chain with the chemical strip should not extend outside the edge of the plastic disk serving as a roof.