

## Instructions on How to Build a Pool Tail Fines Grid

### You need:

- 1 - 8 ft piece Schedule 40 ½ inch PVC
- 4 - ½ PVC 90 degree Elbows
- 2 pieces of 12 inch 3/8 inch rebar (to weigh the frame down so it doesn't float away)
- Mason's line or similar waterproof, non stretchy string
- hacksaw or Dremel tool
- Superglue
- 2-part epoxy

The goal is to have a frame about 35.5 cm by 35.5 cm (about 14" x14"). The precise dimensions are not critical, because the point of the grid is to systematize the collection of fines. Therefore, if the grid is 35 by 35 cm, or 36 by 36 cm, it is not a huge deal. Note that the PTF Grid Image below should be used as a reference.

### Instructions:

1. To make a grid from PVC and rebar, cut 4 equal size pieces of ½ inch schedule 40 PVC about 33.5 cm long.
2. Before attaching 90 degree elbows, slip a piece of 3/8 inch rebar into two of the pieces.
3. Attach elbows; you can use PVC cement if you wish, but if you glue it, and a piece breaks in the field, you will need to replace the whole thing. The fit should be tight enough to hold without glue.
4. Once you have the ~35.5 x 35.5 cm square, stand it on one side, and use a hacksaw or Dremel to cut 7 equally spaced grooves along the outside edge of the top piece. Then rotate the square a quarter turn and repeat. Continue until all sides are grooved.
5. Once the grooves are in place, cut 14 pieces of Mason's line approximately 28.5 inches long. Tie 7 to the top and bottom of the frame, pulling the line as taut as possible. Superglue into place in the grooves. Cut any excess.
6. As soon as superglue has dried, tie the remaining 7 pieces of line to one of the sides, then weave each piece over and under the existing line, pulling taut and tying off on the opposite side. Superglue these pieces to the grooves in the outside of the frame.
7. For added durability, coat the outer edges of the frame with 2-part epoxy to ensure the strings don't slip.

