

Cuatro Comunidades As-Built Details

What is the collision potential at Marcala and at Cuatro Comunidades?

In order to calculate the collision potential we need to know the number, height (H), width(W) and spacing (S) of baffles in the flocculator.

- Each of the three sections is 3.93 meters long inside.
- There are 29 baffles in the first section of the tank, 15 in the second, and 15 in the third. The first and last baffle in every section is "down", or flush with the floor and allows water to go over the top of it.
- First section: The space between the wall and the first baffle in the first section of the flocculator is 30 cm. The space between baffles 1 through 16 is approx. 10 cm. The spacing between baffles 16 and 29 is approximately 15 cm. The space between the last baffle in the first section (number 29) is 18 cm.
- Second section: The space between the wall and the first baffle is 30 cm. the space between baffle 1 and 2 is 17 cm. The spacing between baffles 2 and 14 is approx. 25 cm. The space between baffle 14 and 15 is 22 cm. The space between the last baffle in the second section (number 15) is 32 cm.
- Third section: The space between the wall and the first baffle is 21 cm. The spacing between baffles 1 and 15 is approx. 25 cm. The space between the last baffle (number 15) and the last wall where the distribution canal begins is 33 cm. (Note that this baffle is "down" but should probably be "up".)
- The width of the two walls dividing the tank into three sections is approx 16 cm.
- All of the "down" baffles are approx 1.32-1.45 meters long, extending from the floor to about 20-30 cm from the top of the tank.
- All of the "up" baffles are 1.50-1.55 meters long, leaving a 10-15 cm space between the bottom of the baffle and the floor of the tank.
- The flow rates have been between 57-69 gpm.