AguaClara: AutoCAD Flocculation Tank Program - Floctankscript3

This page last changed on Nov 20, 2008 by ar329.
General Program Information
Northeast Isometric View

**Technical Program**

`local` - Calls the Lamina Program to draw a lamina at the specified origin point.

```plaintext
local <- lamina((bafflesank2 origin + p1), baffle amp, baffle width, bafflesank2 location0,2, baffle thick, baffle periods, baffle slope, baffle num, baffle col, baffle x, baffle y)
```

`p1` =

- x: bafflesank2 (~) location0,0
- y: 0
- z: bafflesank2 (~) location0,1

**for loop** - To draw the correct number of baffles into the flocculation tank Floctanksript3 enters a loop for the range 1 to bafflesank2 num - 1. In total (bafflesank2 num - 1) baffles will be drawn. Baffle origins and lengths are drawn from the 3*8 matrix located in the inputs program.

`bafflesank2 origin[i]` - Determines the x, y and z coordinates of where the baffle "i" will be drawn from.

```plaintext
bafflesank2 origin[i] <- bafflesank2 origin + p1
bafflesank2 origin[i] =
  - x: tank origin0 - tank dim0
  - y: tank origin1 + num tanks * (tank dim1 + tank thick)
  - z: tank origin2
```

`p1` =

- x: bafflesank2 location[i],0
- y: 0
- z: bafflesank2 location[i],1

`bafflesank2 length[i]` - Determines the length of baffle "i" from the 3*8 matrix located in the Inputs Program.

```plaintext
bafflesank2 length[i] <- bafflesank2 location[i],2
```

`local` - Compiles the origin and baffle lengths calculated in the for loop to draw the correct number of baffles using the Lamina Program.

```plaintext
local <- stack(local, lamina(bafflesank2 origin[i], baffle amp, baffle width, bafflesank2 length[i], baffle thick, baffle periods, baffle slope, baffle num, baffle col, baffle x, baffle y))
```

`layerset` -

```plaintext
layerset <-
```

`layerfreeze2` -

```plaintext
layerfreeze2 <-
```