

# SoakCalc (Foul)

## Help and Operating Instructions

### Overview

The programme is designed to allow the user to calculate the size of a soakaway used in conjunction with a septic tank. The soakaway can be sized for a number of different soil types and soil permeability rates. The programme allows the user to select the flow from a variety of different building types. Once the user has selected the proposed building type the programme automatically provides the daily effluent flow rate per person for the selected building type.

The programme allows the user to select multiple soakaways for larger installations. Where multiple soakaways are proposed the user can select the soakaway spacing from a drop down menu. The programme will then automatically apply a soakage reduction factor based upon the spacing of the soakaways.

The user selects the diameter of the proposed soakaway from a drop down list and the programme will automatically indicate the effective depth of soakaway below the incoming pipe invert.

# Help and Operating Instructions

## Worksheet tabs

The programme contains a number of worksheet tabs, these are named 'Help', 'Cover sheet' and 'Soakaway'.

**'Help' tab -** 'Help' tab contains the Help and Operating instructions for the programme

**'Cover Sheet' tab -** The 'Cover Sheet' tab contains the cover sheet template for the programme print out.

**'Soakaway' tab -** The 'Soakaway' sheet tab contains the main part of the programme that allows the user to size the soakaway required.

## **Help and Operating Instructions**

### **Inputting data**

**Only place data in boxes marked in green.**

#### **Project -**

'Project' indicator.

The user should input the name of the project in the box adjacent to the

#### **Location -**

'Location' indicator.

The user should input the location of the stack in the box adjacent to the

#### **No. of soakaways -**

adjacent to the 'No. of soakaways' indicator.

The user should input the number of soakaways proposed in the box

#### **Spacing of soakaways -**

list. When only one soakaway is proposed the spacing of the soakaways must be set to zero.

The spacing of the soakaways should be selected from the drop down

#### **Water Inflow -**

second.

The programme automatically displays the effluent inflow in litres per

#### **Soil Type -**

11 soil types.

The type of soil is selected from a drop down menu. There is a choice of

#### **Soil Permeability -**

presented. The list of soil permeabilities presented to the user is dependant on the soil type selected. Where necessary the soil permeability should be agreed with the Local Authority or the authority having jurisdiction.

The user should input the soil permeability from the drop down list

#### **Proposed diameter -**

drop down list. The soakaway can be from 1.0 metre to 6.0 metres in diameter.

The user should select the proposed diameter of the soakaway from the

#### **Minimum depth -**

the soakaway in metres.

The programme automatically calculates the minimum effective depth of

#### **Capacity red. factor -**

the soakaways based upon the spacing of the soakaways.

The programme automatically calculates the capacity reduction factor of

#### **No. of people -**

soakaway system via the septic tank or sewage treatment plant.

The user should select the proposed number of people connected to the

#### **Connection from -**

soakaway system via the septic tank or sewage treatment plant.

The user should select the proposed building type that is connected to the

#### **Daily flow per person -**

per day based upon the building type selected by the user.

The programme automatically indicates the daily flow per person in litres

### **Creating an additional row**

To create an additional row press the "Add Row" button this activates a macro which will add a new line below the existing line. To add a further line press the "Add Row" button again.

### **Removing a row**

To remove a row press the "Delete Row" button this activates a macro which will remove the last row. To remove a further row press the "Delete Row" button again. The macro will not allow the user to remove the first row.

## **Help and Operating Instructions**

### **Setting the print areas**

To set the print area of the "Soakaway" sheet press the "Set print area" button this activates a macro, which will set the print area ready for printing.