

Foul Water Disposal

The proposed treatment plant is a Haba EasyFlow sewage treatment tank, suitable for 2 No. 4 bedroom properties. In accordance with the Environment Agency binding rules, the development has a daily flow rate of 1.8m³. The calculation is below.

Daily discharge calculator for domestic properties		V1.0 June 2015
Use this calculator to work out how much effluent your septic tank or small sewage treatment plant will discharge a day when it's being used to treat the sewage from one or more houses or flats.		
Number of properties	2	← Enter the number of properties which are connected to the plant
Number of bedrooms	8	← Enter the total number of bedrooms for all of the properties and press return
Cubic metres a day	1.8	← This is how much treated sewage your plant will discharge a day
Eg if you have 2 houses sharing a septic tank, one with 3 bedrooms and the other with 4, enter 2 for the number of properties, 7 for the number of bedrooms, and this will give you a result of 1.65 cubic metres a day.		

The Haba EasyFlow PTP is suitable for 12 people. – In Accordance with “British Water Code of Practice, Flows and Loads 4” the size of the treatment system serving 2 No 4-bedroom houses gives a “P” value of 12.

A percolation test has been carried out on the site, in accordance with BRE365. The results gave a Vp of 17.2. – see “results and Drainage Field Calculation form” (below).

From this the drainage field calculation has been applied.

$12 \text{ (people)} \times 17.2 \text{ (Vp)} \times 0.25 = A \text{ (drainage field)}$

$12 \times 17.2 \times 0.25 = 51.6$ – Assuming a drainage trench 600mm wide then this gives a 86 linear metre drainage trench.

Percolation Tests - Results and Drainage Field Calculation Form

I, (name) GARY LEWIS on behalf of (applicant)
 have carried out percolation tests in accordance with the guidance provided
 with this form on (date) 27/07/2023 in respect of premises at:
LAND SOUTH WEST OF ASHDOWN FARM, NEW ROAD,
CORRIP, MILTS

The overall depth of the trial holes dug were: (state in metres/millimetres)

Trial Hole 1	Trial Hole 2
800 mm	800 mm

I confirm that the water table did not rise to within 1 metre of the invert of the proposed land irrigation scheme.

The weather conditions on the day were OVERCAST, WITH SUNNY SPELLS

The results of the percolation tests were:

Trial Hole 1				Trial Hole 2			
	Time in seconds		Vp		Time in seconds		Vp
Test 1	2340	+150	15.6	Test 1	2640	+150	17.4
Test 2	2460	+150	16.4	Test 2	2520	+150	16.8
Test 3	2700	+150	18.0	Test 3	2820	+150	18.8
Trial Hole 1 - Average Vp				Trial Hole 2 - Average Vp			
Average Vp of Trial Holes 1 & 2				17.2			

Use this averaged Vp figure in the following formula $P \times Vp \times 0.25 = A_d$

where

P = no of people served by the tank

A_d = floor area of the drainage field in square metres)

$$P \times Vp \times 0.25 = A_d$$

$$12 \times 17.2 \times 0.25 = 51.6 \text{ m}^2 \text{ of drainage field.}$$

Assuming a 600mm wide drainage trench then $51.6 \text{ m}^2 \div 0.6 = 86$ linear metres.

I am aware that I require a Consent to Discharge from the Environment Agency and this is attached / or has been requested (delete as appropriate).

Signed:

Address:

Date: 03/08/2023

Telephone No. 07905 802173