





### NON MAINS DRAINAGE INFORMATION

Your proposed development includes proposals to use non mains drainage. In order that the Environment Agency can adequately assess the suitability of the proposals we require the following information. All the relevant information requested must be supplied. Failure to do so may result in the Agency objecting to your proposals until such time as the information is received.

**1** Please indicate distance to nearest mains drainage:  
 More than 1 mile

**2** Number of occupiers of proposed development:  
 Full time: \_\_\_\_\_  
 Part time: 14

**3** Number of previous occupiers: None

**4** What method of foul drainage is proposed (please tick):  
 Septic Tank       Package Treatment Plant       Cesspool   
 If discharge to soakaway is proposed please attach percolation test results (see notes)  
 If discharge is to a watercourse, please give details:

**5** Package Treatment Plant  
 If a package treatment plant is proposed please supply details of plant manufacturer and model:  
**Klargester BioDisc BD**  
 A discharge consent may be required for discharge from a treatment plant to watercourse or soakaway. The Environment Agency will send you an application form if you have indicated that a treatment plant is to be installed.

**6** Cess Pool  
 If a cess pool is proposed please indicate why this method has been chosen in preference to alternatives such as a package treatment plant or septic tank:  
 Please advise capacity of cess pool minimum capacity 18 cubic metres:

Notes: Guidance on how to conduct a percolation test is attached. The percolation test should be conducted in accordance with BS 6297 : 1983. It should be noted that whilst the Environment Agency can advise on the likely suitability of a soakaway on the basis of percolation test data presented to it, the responsibility for ensuring that a soakaway functions satisfactorily lies with the applicant and the Local Planning Authority.

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**PERCOLATION TEST RESULTS**

TEST 1                      DATE: 08/01/10                      EXCAVATION NO: 1

DEPTH (D) MM OF WATER IN EXCAVATION	START TIME	FINISH TIME	TOTAL TIME (T) SECS FOR WATER TO SEEP AWAY COMPLETELY	PERCOLATION VALUE (Vp) Vp SECS/MM – (t/d)
(i) 225mm	9.45	12.30	20700	92
(ii)				
(iii)				
AVERAGE RESULT OF Vp                      sec/mm				

TEST 2                      DATE: 08/01/10                      EXCAVATION NO: 2

DEPTH (D) MM OF WATER IN EXCAVATION	START TIME	FINISH TIME	TOTAL TIME (T) SECS FOR WATER TO SEEP AWAY COMPLETELY	PERCOLATION VALUE (Vp) Vp SECS/MM – (t/d)
(i) 225mm	10.15	13.22	22020	97.9
(ii)				
(iii)				
AVERAGE RESULT OF Vp                      sec/mm				

TEST 3                      DATE: 08/01/10                      EXCAVATION NO: 3

DEPTH (D) MM OF WATER IN EXCAVATION	START TIME	FINISH TIME	TOTAL TIME (T) SECS FOR WATER TO SEEP AWAY COMPLETELY	PERCOLATION VALUE (Vp) Vp SECS/MM – (t/d)
(i) 225m	10.45	13.44	21300	94.7
(ii)				
(iii)				
AVERAGE RESULT OF Vp    94.5 sec/mm				

TEST 4                      DATE:                      EXCAVATION NO:

DEPTH (D) MM OF WATER IN EXCAVATION	START TIME	FINISH TIME	TOTAL TIME (T) SECS FOR WATER TO SEEP AWAY COMPLETELY	PERCOLATION VALUE (Vp) Vp SECS/MM – (t/d)
(i)				
(ii)				
(iii)				
AVERAGE RESULT OF Vp                      sec/mm				

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**CALCULATION OF SUBSURFACE DRAINAGE AREA**

Vp	Calculated from percolation test	=	94.5	Secs/mm
P	N° of persons served by tank	=	14	
Subsurface drainage A = P x Vp x 0.25		=	331	m²
Dimensions of drainage trench(es) to achieve required area		@	300mm	= 1103
		@	600mm	= 552
		@	900mm	= 368

Notes:

- i. The minimum acceptable soakaway area to be confirmed by the Local Authority.
- ii. BS 6297:1983 Design and Installation of small sewage treatment works and cesspools should be consulted for further information.
- iii. Drainage trenches should be from 300mm to 900mm wide.
- iv. For effluents which have received secondary treatment followed by settlement, the following equation may be applied:

**A = P x Vp x 0.2**

**IMPORTANT**

**Certification**

The site has been tested in accordance with BS 6297:1983 for ground percolation; it has also been investigated by a suitably qualified person. I confirm that the site is suitable for a subsurface irrigation system and will not become a nuisance or danger to health and enclose the necessary calculations and details to support this statement.

Signed: \_\_\_\_\_ Date: 09/01/10

Print Name: R Jennison (Edwardson Associates)

Qualifications/Experience: BSc Arch Tech

\_\_\_\_\_  
 \_\_\_\_\_

Telephone Number: 01377 249720

The Agency reserves the right to independently validate the results of this percolation test. Failure to complete the relevant sections of this form or failure to submit the requested site plans may lead to a delay or even an objection in an Agency response to any relevant planning application.

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## PERCOLATION TEST & SUBSURFACE DRAINAGE

### INSTRUCTIONS

The following tests are in accordance with BS 6297:1983:-

#### Method

Note: Avoid abnormal weather conditions, e.g. heavy rain, severe frost, drought

- 1) Excavate a hole 300mm square to a depth 250mm below proposed septic tank outlet invert level. (Excavation may be enlarged above the 250mm level for safety.)
- 2) Fill the 300mm square section of the excavation to a depth of at least 250mm with water and allow it to seep away overnight.
- 3) Next day, refill the test excavation with water to a depth of at least 250mm and observe the time in seconds for the water to seep away COMPLETELY.

Divide this time by the depth in mm of water placed in the excavation. The answer gives the time taken for the water to drop 1mm.

The test should be carried out three times and an average taken of the results. This is the percolation value  $V_p$ . The results should be recorded in the 'Test 1' table on the attached form.

- 4) In the event of any of the measurements in a test being 50% or more above or below the average, make a further three measurements and calculate a further average.
- 5) Unless an average value of  $V_p$  of 24 secs/mm or less is obtained (in which case no further tests are needed) make further tests on a minimum of three different locations, or at least three tests on separate days on the site proposed for a soakaway. The results of which should be recorded in the 'Test 2, 3 and 4' tables.

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