



Testing of septic tank from Watercare, type Watercare septictank, NC 4

Test report

File number: 450410/2011

Carried out for:

Watercare
Stejlebjergvej 14
5610 Assens
DK- Denmark

Key words: Sewer, septic tank, hydraulic efficiency test

Carried out by:

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Number of supplements: 3

Taastrup, 30th of September 2011



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Test Report

Material: The septic tank is a nominal size NC 4, type Watercare Septictank from Watercare. The septic tank is tested with 0,7 l/s.

The septic tank is a 3 chamber tank. The incoming pipe is \varnothing 110 mm. There are two \varnothing 580 mm access openings. The tank is made of PE. A computer drawing of the septic tank is shown in supplement 3. Testing was carried out on a factory-made septic tank.

The purpose of the test is to determine the normal capacity/size, the watertightness and the hydraulic efficiency of the septic tank.

Sampling: The test tank was sent to the Danish Technological Institute by the manufacturer and received at May the 5th, 2011.

Method: The test was carried out according to:
1. DS/EN 12566-1: 2003 with Amendment A
a. Capacity test, Annex A
b. Watertightness, Annex A
c. Testing of the hydraulic efficiency, Annex B

Period: The testing was carried out 2011-09-27.

Watertightness: The septic tank was tight after 30 min. of testing.

Capacity: Capacity: The septic tank has a normal capacity of 4,089 m³.

Result: With a flow of 0,7 l/s, 5 out of 5 results are below 5 gram. The results are shown in supplement 2.

Terms: The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

2011-09-30, Danish Technological Institute, Pipecenter, Taastrup

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Supplement 1: Test

Reference to section **Test**
in CEN standard
DS/EN 12566-1

The conformity of the test separator with the manufacturer's construction drawings has been controlled.

Annex A

Normal Capacity

A normal capacity of 4,089 m³ was measured to the outlet of the septic tank without the volume from the integrated pump well.

Watertightness

The septic tank was tight after 30 min. of testing.

Annex B

Hydraulic efficiency test

The septic tank was filled with water.

2,0 m³ of settled sludge (beads 2-5 mm) were pumped into the septic tank together with a flow of 0,7 l/s.

5 times a solution of 1 kg of settled solids (beads 0,3-0,5 mm) were added to the tank with a flow of 0,7 l/s in 10 minutes. The outlet was screened and the beads collected. The results are shown in supplement 2.

Supplement 2: Test results

Test no.	1	2	3	4	5
Test results in gram	3,11 g	3,67 g	3,96 g	4,17 g	4,33 g

Average of 5 results: 3,85 grams
Average of 4 lowest results: 3,73 grams



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Supplement 3: Drawings and photos from the test

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		Mål	1:20	Enhed	mm	Dato	25.09.2006	
		Titel					Tegn.nr.	
		waterCare septiktank 4 kubikmeter 10 pe					223193157	

Pictures:





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