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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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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 ø 110 mm. There are two ø580 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 m^3.

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.

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

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Supplement 1: Test

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

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 m^3 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 m^3 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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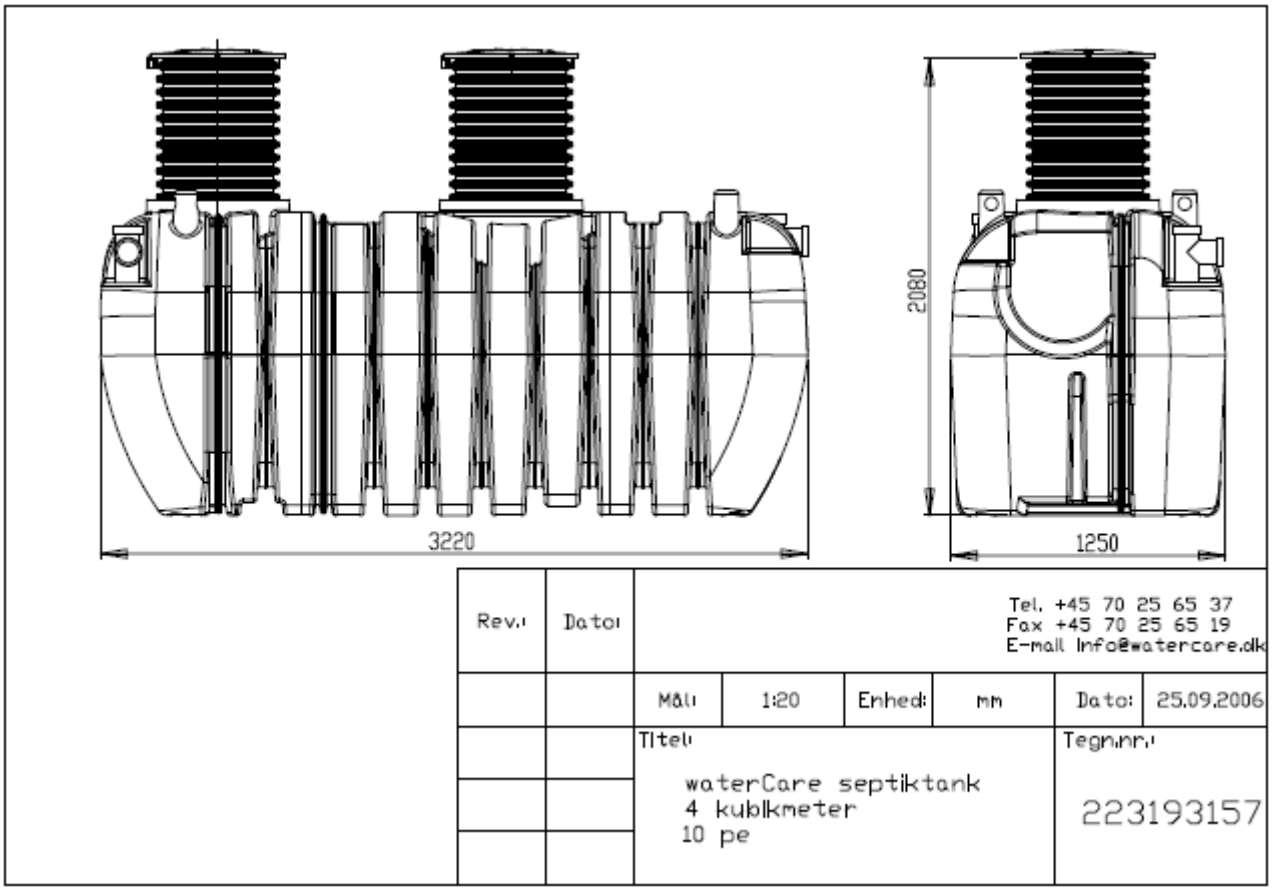
Supplement 3: Drawings and photos from the test



Pictures:

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Pictures: