

# 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:**

Danish Technological Institute, Pipe Centre  
Gregersensvej  
DK-2630 Taastrup

Stig Clausen, Consultant  
Ulrik Hindsberger, M.Sc.

**Number of pages:** 4

**Number of supplements:** 3

Taastrup, 30<sup>th</sup> of September 2011



Watercare  
Stejlebjergvej 14  
5610 Assens

Report no. 450410  
Page 1 of 4  
Supplements 3  
Initials UHI & SCL

Gregersensvej  
P.O. Box 141  
DK-2630 Taastrup  
Tel. +45 72 20 20 00  
Fax +45 72 20 20 19

info@teknologisk.dk  
www.teknologisk.dk

## 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 5<sup>th</sup>, 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<sup>3</sup>.

**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

Stig Clausen  
Consultant

Ulrik Hindsberger  
Head of section



Journal/report no. 450410  
Page 2 of 4  
Supplement 3  
Initials UHI & SCL

**DANISH  
TECHNOLOGICAL  
INSTITUTE**

Gregersensvej  
P.O. Box 141  
DK-2630 Taastrup  
Tel. +45 72 20 20 00  
Fax +45 72 20 20 19

info@teknologisk.dk  
www.teknologisk.dk

## 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 m<sup>3</sup> 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<sup>3</sup> 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

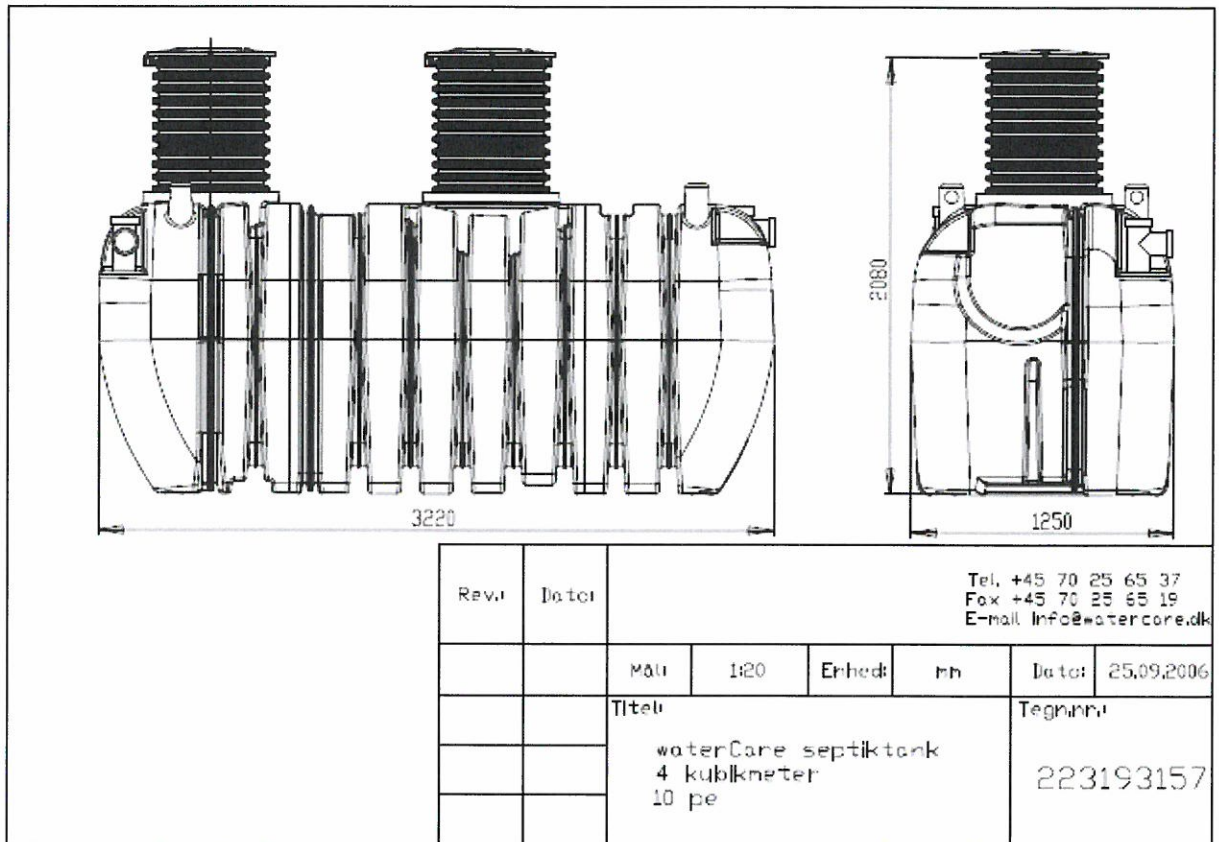


Journal/report no. 450410  
Page 3 of 4  
Supplement 3  
Initials UHI & SCL

**DANISH  
TECHNOLOGICAL  
INSTITUTE**

Gregersensvej  
P.O. Box 141  
DK-2630 Taastrup  
Tel. +45 72 20 20 00  
Fax +45 72 20 20 19

### Supplement 3: Drawings and photos from the test



Pictures:





Journal./report no. 450410  
Page 4 of 4  
Supplement 3  
Initials UHI & SCL

**DANISH  
TECHNOLOGICAL  
INSTITUTE**

Gregersensvej  
P.O. Box 141  
DK-2630 Taastrup  
Tel. +45 72 20 20 00  
Fax +45 72 20 20 19

info@teknologisk.dk  
www.teknologisk.dk

Pictures:

