

REOVEE VÄIKEPUHASTID KUNI 50 IE. OSA 1: TEHASES  
VALMISTATUD SEPTIKUD

Small wastewater treatment systems for up to 50 PT -  
Part 1: Prefabricated septic tanks

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 12566-1:2016 sisaldab Euroopa standardi EN 12566-1:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 12566-1:2016 consists of the English text of the European standard EN 12566-1:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 31.08.2016.	Date of Availability of the European standard is 31.08.2016.
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EUROPEAN STANDARD

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English Version

## Small wastewater treatment systems for up to 50 PT - Part 1: Prefabricated septic tanks

Petites installations de traitement des eaux usées  
jusqu'à 50 PTE - Partie 1: Fosses septiques  
préfabriquées

Kleinkläranlagen für bis zu 50 EW - Teil 1: Werkmäßig  
hergestellte Faulgruben

This European Standard was approved by CEN on 25 June 2016.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 12566-1:2016) has been prepared by Technical Committee CEN/TC 165 “Waste water engineering”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2017, and conflicting national standards shall be withdrawn at the latest by May 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12566-1:2000.

The differences between this version and EN 12566-1:2000 are mainly editorial changes according to the Construction Product Regulation (CPR).

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

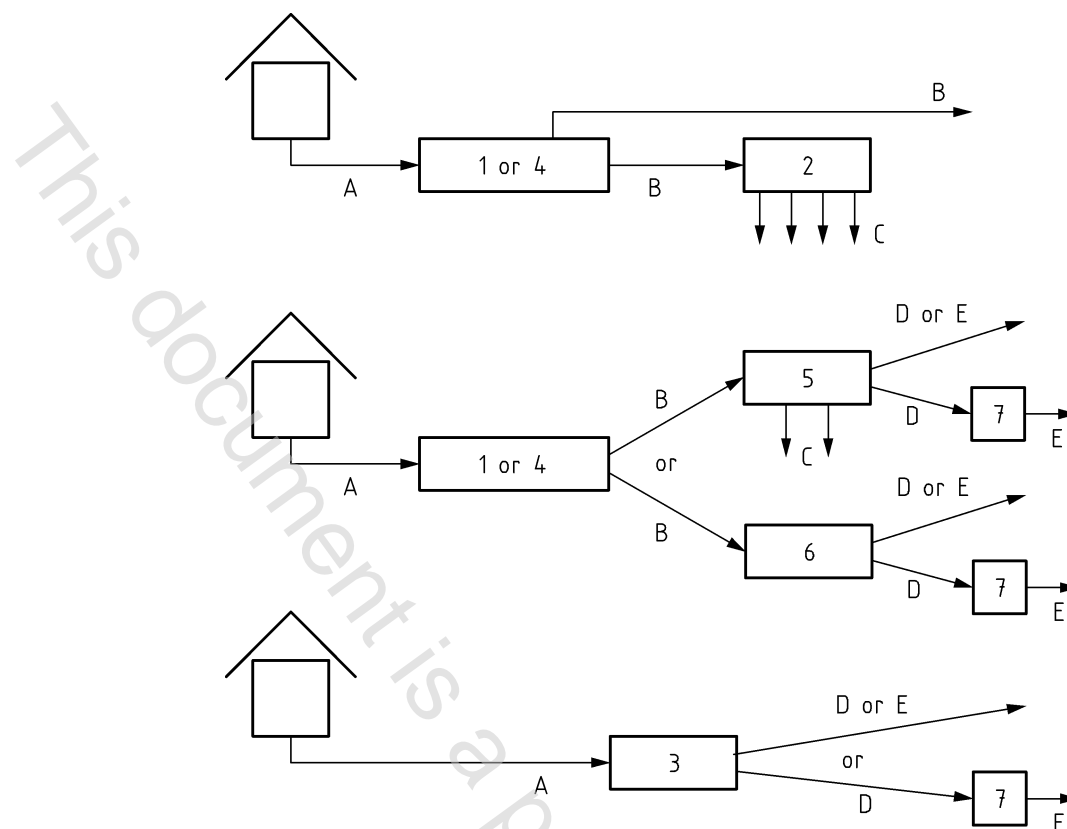
The standard series EN 12566 “Small wastewater treatment systems for up to 50 PT” contains the following parts (see Figure 1):

- *Part 1: Prefabricated septic tank (this document);*
- *Part 3: Packaged and/or site assembled domestic wastewater treatment plants;*
- *Part 4: Septic tanks assembled in situ from prefabricated kits;*
- *Part 6: Prefabricated treatment unit used for septic tank effluent;*
- *Part 7: Prefabricated tertiary treatment unit.*

For filtration systems, CEN/TC 165 decided to publish the following CEN Technical reports, which are considered as Code of practices and do not specify treatment requirements:

- *Part 2: Soil infiltration systems*
- *Part 5: Pre-treated Effluent Filtration systems*



**Key**

A	domestic wastewater	1	prefabricated septic tank
B	septic tank effluent	2	soil infiltration system
C	treated infiltrated effluent	3	packaged and/or site assembled domestic wastewater treatment plant
D	treated wastewater	4	septic tank assembled <i>in situ</i> from prefabricated kit
E	tertiary treated wastewater	5	pre-treated effluent filtration system
		6	prefabricated treatment unit used for septic tank effluent
		7	prefabricated tertiary treatment unit

National regulations may specify different arrangements between the products described in the standard series EN 12566.

**Figure 1 — Scheme related to the arrangement of the parts of EN 12566**

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This part of this standard specifies the requirements for prefabricated septic tanks and ancillary equipment used for the partial treatment of domestic wastewater for a population  $\leq 50$  PT. Pipes sizes, loads, watertightness, marking and quality control are specified.

The following cases are excluded:

- 1) Septic tanks receiving grey water only;
- 2) *In situ* constructed septic tanks.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12566-3:2016, *Small wastewater treatment systems up to 50 PT — Part 3: Packaged and/or site assembled domestic wastewater treatment plants*

EN 16323, *Glossary of wastewater engineering terms*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13369, *Common rules for precast concrete products*

EN ISO 14125, *Fibre-reinforced plastic composites — Determination of flexural properties (ISO 14125)*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16323:2014 and the following apply.

### 3.1

#### **extension shaft**

component which, placed on the top of the septic tank, allows it to be fitted flush with the ground surface or slightly above ground surface, permits installations to be fitted below the frost line, allows accessibility and enables maintenance work to be carried out. Depending on the requirements, it may be vertical extension pieces of the installation housing, or components, which are fitted over maintenance access holes and manholes

### 3.2

#### **nominal capacity (NC)**

numerical designation of the volume of a septic tank, expressed as an integer in cubic metres

### 3.3

#### **prefabricated septic tank**

single piece factory made unit, including inlet and outlet level openings which leaves the factory completed, controlled and ready for installation