

**REOVEE VÄIKEPUHASTID KUNI 50 PT. 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 12566-1:2000 sisaldab Euroopa standardi EN 12566-1:2000 ingliskeelset teksti.	This Estonian standard EVS-EN 12566-1:2000 consists of the English text of the European standard EN 12566-1:2000.
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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 Einwohnerwerte (EW) - Teil
1: Werkmäßig hergestellte Faulgruben

This European Standard was approved by CEN on 25 November 1999.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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FOREWORD

This European Standard 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of an identical text or by endorsement, at the latest by July 2000, and conflicting national standards shall be withdrawn at the latest by July 2000.

This European Standard 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).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This European Standard provides the general requirements for prefabricated septic tanks and ancillary equipment used for domestic wastewater treatment ≤ 50 PT (see clause 1).

This Standard is divided into 5 parts:

Part 1: Prefabricated septic tanks

Note: It specifies the requirements and test methods for prefabricated septic tank units. No treatment or structural requirements are specified.

Part 3: Packaged and/or site assembled domestic wastewater treatment plants

Note: It specifies the requirements and test methods used to evaluate packaged water treatment plants which are required to treat sewage to a predetermined standard.

The following parts are in preparation:

Part 2: Soil infiltration systems

Note: Code of Practice for in-situ constructed soil infiltration systems. No treatment requirements are specified.

Part 4: Septic tanks built in situ from prefabricated kits – Execution standard

Part 5: Filtration systems (including sand filters)

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 ≤ 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

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 476

General requirements for components used in discharge pipes, drains and sewers for gravity systems.

3. DEFINITIONS

For the purposes of this Standard, the following definitions 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 grey water: Domestic wastewater excluding toilet wastewater.

3.3 nominal capacity (NC): Numerical designation of the volume of a septic tank, expressed as an integer in cubic metres.

3.4 prefabricated septic tank: Single piece factory made unit, including inlet and outlet level openings which leaves the factory completed, controlled and ready for installation.

4. CLASSIFICATION

Septic tanks are classified by preferred sizes (NC) on the basis of a minimum nominal capacity of 2 m^3 with nominal capacity differences of 1 m^3 between two consecutive sizes.

5. SPECIFICATIONS

5.1 DIMENSIONS

5.1.1 Inlets, outlets and connections

Minimum size of nominal diameter of inlet and outlet according to the nominal capacity of equipment is

$$100 \text{ ND} \leq 6 \text{ m}^3$$

$$150 \text{ ND} > 6 \text{ m}^3$$

For design of outlet devices, see some examples in Annex C (informative).