

National Annex NA (normative)

Requirements for small wastewater treatment systems (packaged and/or site assembled domestic wastewater treatment plants) for up to 50 inhabitants

NA.1 General

Requirements for the intended use of small wastewater treatment systems (packaged and/or site assembled domestic wastewater treatment plants) for up to 50 inhabitants are defined in Table NA.1. Specific requirements for the effectiveness of treatment are described in Table NA.2.

Table NA.1 — Requirements for small wastewater treatment systems for up to 50 inhabitants

Essential characteristics		Requirement clauses in this standard	Requirement Yes/No	Requirement value
Effectiveness of treatment - treatment efficiency ratios		6.3	Yes	See Table NA.2
Treatment capacity (nominal designation)	Nominal hydraulic daily flow	5	Yes	To be declared (expressed in cubic meters per day)
	Nominal organic daily load	5	Yes	To be declared (expressed in kg of BOD _x per day)
Water tightness		6.4	Yes	Pass
Crushing resistance and maximum load deformation - load bearing capacity		6.2.1	Yes	To be declared (see NA.3)
		6.2.2	Yes	Pass or failure load (expressed in kN)
Durability		6.5	Yes	Pass
Electric consumption		8(h) and B.2.4(d)	Yes	To be declared (see NA.4) (expressed as kWh per day)

Table NA.2 — Effectiveness of treatment

Parameter	Final effluent quality
BOD ₅ mg/l	< 20
Suspended solids mg/l	< 30
Ammonium nitrogen mg/l NH ₄ -N	< 20 (See NOTE)
NOTE	In nutrient sensitive areas the Local Authority may require a lower limit.

NA.2 Treatment capacity

The wastewater treatment system should be designed for a minimum hydraulic daily load of 150 l/person/day based on the number and size of bedrooms and a minimum organic daily load of 60 g BOD/person/day to ensure adequate treatment is provided.

NA.3 Crushing resistance

The plant shall resist loads and stresses resulting from handling, installation and use, including desludging and maintenance, for their design life.

NA.4 Electric consumption

The energy efficiency of the plant should be considered when deciding the suitability of the wastewater treatment system.

NA.5 Selection of a wastewater treatment system

A wastewater treatment system shall be selected on the basis that:

- it has been tested by a notified test house in accordance with the requirements of EN 12566-3
- the manufacturer/supplier has submitted the results from the notified test house to an accredited certification body for evaluation and certification
- the certificate issued by the accredited certification body states that the system complies with the requirements in Tables NA.1 and NA.2.