

# DIN EN 12566-3:2013-09 (E)

Small wastewater treatment systems for up to 50 PT - Part 3: Packaged and/or site assembled domestic wastewater treatment plants; English version EN 12566-3:2005+A2:2013 (includes Amendment A2:2013)

---

<b>Contents</b>		<b>Page</b>
Foreword .....		4
1	Scope .....	7
2	Normative references .....	7
3	Terms and definitions .....	9
4	Symbols and abbreviations .....	10
5	#Declaration of the nominal designation\$ .....	10
6	Requirements .....	10
6.1	Design .....	10
6.1.1	General .....	10
6.1.2	Inlets, outlets, internal pipework and connections .....	10
6.1.3	Access .....	11
6.1.4	Sizing basis .....	11
6.1.5	Overall dimensions .....	11
6.2	Load bearing capacity .....	11
6.2.1	General .....	11
6.2.2	Load bearing capacity determined by calculation .....	12
6.2.3	Load bearing capacity determined by testing .....	13
6.3	Treatment efficiency !deleted text" .....	15
6.4	Watertightness .....	16
6.4.1	General .....	16
6.4.2	Water test .....	16
6.4.3	Vacuum test .....	16
6.4.4	Pneumatic pressure test .....	16
6.5	Durability .....	16
6.5.1	General .....	16
6.5.2	Concrete .....	16
6.5.3	Steel .....	16
6.5.4	Unplasticized polyvinyl chloride (PVC-U) .....	16
6.5.5	Polyethylene (PE) .....	17
6.5.6	Glass reinforced plastic (GRP) .....	18
6.5.7	Polypropylene (PP) .....	18
6.5.8	PDCPD .....	19
6.5.9	Flexible sheets .....	19
6.6	Reaction to fire .....	20
6.6.1	General .....	20
6.6.2	Plants classified as Class A1 without the need for testing .....	20
6.6.3	Plants classified according to the test results .....	21
6.7	Power consumption .....	21
6.8	Dangerous substances .....	21
7	Technical information .....	22
8	Evaluation of conformity .....	22

8.1	General .....	22
8.2	Initial type tests .....	22
8.3	Factory production control .....	23
8.3.1	General .....	23
8.3.2	Raw materials and components .....	23
8.3.3	Production process .....	23
8.3.4	Finished product testing .....	23
8.3.5	Stock control .....	23
9	Installation instructions .....	24
10	Operation and maintenance instructions .....	24
Annex A (normative) Watertightness test .....		25
A.1	Selection of test .....	25
A.2	Water test .....	25
A.2.1	Sample .....	25
A.2.2	Procedure .....	25
A.2.3	Expression of results .....	26
A.3	Air permeability vacuum test .....	26
A.3.1	Sample .....	26
A.3.2	Procedure .....	26
A.3.3	Expression of results .....	27
A.4	Pneumatic pressure test .....	27
A.4.1	Sample .....	27
A.4.2	Procedure .....	27
A.4.3	Expression of results .....	27
Annex B (normative) Treatment efficiency test procedure .....		28
B.1	Responsibility and testing location .....	28
B.2	Plant selection and preliminary evaluation .....	28
B.2.1	General .....	28
B.2.2	Installation and commissioning .....	28
B.2.3	Operation and maintenance procedures during testing .....	28
B.2.4	Data to be monitored .....	29
B.3	Test procedure .....	29
B.3.1	Time for establishment .....	29
B.3.2	Influent characteristics .....	29
B.3.3	Daily flow pattern for testing .....	30
B.3.4	Test procedure .....	30
B.3.5	Influent and effluent samplings .....	32
B.4	Sample analysis .....	33
B.5	Test report .....	33
Annex C (normative) Calculation and test methods for structural behaviour .....		35
C.1	General .....	35
C.2	Concrete plant .....	35
C.2.1	Crushing test methods .....	35
C.2.2	Test procedures .....	36
C.3	Polyethylene and polypropylene plant .....	38
C.3.1	Vertical load test .....	38
C.4	Determination of mechanical characteristics of test samples used for calculation .....	39
C.4.1	Concrete .....	39
C.4.2	Glass reinforced plastic (GRP) .....	39
C.4.3	PVC-U .....	40
C.4.4	PE, PP .....	40
C.4.5	Steel .....	40
C.5	Vacuum test for Glass Reinforced Plastic .....	40
C.6	Pit test .....	41

<b>C.6.1</b>	<b>Sample .....</b>	<b>41</b>
<b>C.6.2</b>	<b>Procedure .....</b>	<b>41</b>
<b>C.6.3</b>	<b>Expression of results .....</b>	<b>42</b>
<b>Annex ZA (informative)</b>	<b>Clauses of this European Standard addressing the provisions of the EU Construction Products Directive .....</b>	<b>43</b>
<b>ZA.1</b>	<b>Scope and relevant characteristics .....</b>	<b>43</b>
<b>ZA.2</b>	<b>Procedure of attestation of conformity of "packaged and/or site assembled domestic wastewater treatment plants" .....</b>	<b>45</b>
<b>ZA.2.1</b>	<b>System of attestation of conformity .....</b>	<b>45</b>
<b>ZA.2.2</b>	<b>Declaration of conformity .....</b>	<b>46</b>
<b>ZA.3</b>	<b>CE Marking .....</b>	<b>46</b>
<b>Bibliography</b>	<b>.....</b>	<b>50</b>