

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-17712-01-00 according to DIN EN ISO/IEC 17025:2005

**Valid from: 12.08.2019**

Date of issue: 12.08.2019

Holder of certificate:

**PIA Prüfinstitut für Abwassertechnik GmbH  
Hergenrather Weg 30, 52074 Aachen**

Tests in the fields:

**mechanical-technological, physical analyses, physicochemical and chemical analysis of water and sludge;**  
**selected microbiological analyses of water samples;**  
**sampling, examination, analysis of sludge for the performance examination of construction products for the disposal and treatment of wastewater (indoor, outdoor, ship/on-board);**  
**sampling from technological systems treating industrial wastewater (indoor, outdoor);**  
**sampling of water from technological systems treating potable water (indoor, outdoor);**  
**testing of construction products in accordance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (Construction Products Directive) laying down harmonised conditions for the marketing of construction products;**  
**tests of reaction to fire of construction products, for which the reference to a relevant harmonised technical specification is not required (chapter 3. Annex V, (EU) No 305/2011)**

**The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.**

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.  
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

**1 Mechanical-technological, physical performance examination of construction products for the disposal and treatment of wastewater (indoor, outdoor, ship/on-board), industrial wastewater, and for the treatment of water to process drinking water**

IMO Resolution MEPC.159(55) 2006-10	Annex 26 - Resolution MEPC.159(55) Revised Guidelines on Implementation of Effluent Standards and Performance Tests for Sewage Treatment Plants
IMO Resolution MEPC.227(64) 2012-10	2012 Guidelines on Implementation of Effluent Standards and Performance Tests for Sewage Treatment Plants
BinSchUO 2014-05	Binnenschiffsuntersuchungsordnung vom 06.12.2008, zuletzt geändert durch die Zweite Änderungsverordnung vom 30. Mai 2014, in der jeweils geltenden Fassung; Anhang II, §14a.12 BinSchUO, Anlage V
Directive 2006/87/EC Annex II	as amended by Directive 2012/49/EU - Technical requirements for inland waterway vessels - on-board sewage treatment plants for passenger vessels, Annex VII
AS/NZS 1546.1 2008	On-site domestic wastewater treatment units - Septic tanks
AS 1546.3 2017	On-site domestic wastewater treatment units - Secondary treatment systems
AS 1546.4 2016	On-site domestic wastewater treatment units - Domestic greywater treatment systems
In-house method 7.5.60.01 2012-12	Pressure testing of on-board sewage treatment plants
In-house method 7.5.60.03 2012-08	Inclination testing of on-board sewage treatment plants

***The testing laboratory complies with the requirements for Technical Services according to Annex II, §14a.12 BinSchUO.***

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**2 Sampling and Analysis of water and sludge for the performance evaluation of construction products for the treatment of wastewater (indoor, outdoor, ship/on-board), industrial wastewater, and water to process drinking water**

**2.1 Sampling**

DIN 38402- A 11 2009-02	Sampling of waste water (A 11)
DIN 38402- A 30 1998-07	Pretreatment, homogenization and aliquotation of non-homogeneous water samples (A 30)
DIN EN ISO 5667-3 (A 21) 2019-07	Water quality - Sampling - Part 3: Preservation and handling of water samples
DIN EN ISO 5667-13 (S 1) 2011-08	Water quality - Sampling - Part 13: Guidance on sampling of sludges
DIN ISO 5667-5 (A 14) 2011-02	Water quality - Sampling - Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems
DIN EN ISO 19458 2006-12	Water quality - Sampling for microbiological analysis

**2.2 Physical, physicochemical and chemical examinations**

DIN EN ISO 7027-1 2016-11	Water quality - Determination of turbidity - Part 1: Quantitative methods
DIN EN ISO 10523 (C 5) 2012-04	Water quality - Determination of pH
DIN EN 12880 (S 2a) 2001-02	Characterization of sludges - Determination of dry residue and water content
DIN EN 14702-1 (S 10) 2006-06	Characterization of sludges - Settling properties - Part 1: Determination of settleability (Determination of the proportion of sludge volume and sludge volume index)

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DIN EN ISO 5814 (G22) 2013-02	Water quality - Determination of dissolved oxygen - Electrochemical probe method
DIN ISO 17289 2014-12	Water quality - Determination of dissolved oxygen - Optical sensor method
DIN EN 27888 (C 8) 1993-11	Water quality - Determination of electrical conductivity
DIN 38404- C 4 1976-12	Determination of temperature (C 4)
DIN 38409-2 (H 2) 1987-03	German standard methods for the examination of water, waste water and sludge; parameters characterizing effects and substances (group H); determination of filterable matter and the residue on ignition (H 2)
DIN 38409- H 9 1980-07	Determination of the settleable matter by volume in water and waste water (H 9)
DIN EN 872 (H 33) 2005-04	Water quality - Determination of suspended solids - Method by filtration through glass fibre filters
EPA Method 180.1 1993-08	Determination of Turbidity by Nephelometry
NANOCOLOR® Chlor/Ozon 2 2011-04	Photometric determination of free chlorine, total chlorine and ozone with N,N-diethyl-1,4-phenylene diamine (DPD) / potassium iodide
SM 2540 D 2007-05	Standard Methods for the Examination of Water and Wastewater; Total Suspended Solids

**2.3 Microbiological analyses**

Colilert®-18/Quanti-Tray®	Detection and enumeration of <i>E.coli</i> , coliform bacteria and faecal coliforms
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**3 Testing and examination of construction products in accordance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products (Construction Products Directive)**

Decision / resolution of the commission	System <sup>1)</sup>	Technical specification
<p><b>1997/464/EC</b> <b>2004/663/EG</b> Waste water engineering products outside buildings</p>	<p>3</p>	<p><b>EN 12050-1:2001</b> Wastewater lifting plants for buildings and sites - Principles of construction and testing - Part 1: Lifting plants for wastewater containing faecal matter</p>
		<p><b>EN 12050-2:2000</b> Wastewater lifting plants for buildings and sites - Principles of construction and testing - Part 2: Lifting plants for faecal free wastewater</p>
		<p><b>EN 12050-3:2000</b> Wastewater lifting plants for buildings and sites - Principles of construction and testing - Part 3: Lifting plants for wastewater containing faecal matter for limited applications</p>
		<p><b>EN 12050-4:2000</b> Wastewater lifting plants for buildings and sites - Principles of construction and testing - Part 4: Non-return valves for faecal-free wastewater and wastewater containing faecal matter</p>
		<p><b>EN 12566-1:2000/A1:2003</b> Small wastewater treatment systems for up to 50 PT - Part 1: Prefabricated septic tanks</p>
		<p><b>EN 12566-3:2005+A2:2013</b> Small wastewater treatment systems for up to 50 PT - Part 3: Packaged and/or site assembled domestic wastewater treatment plants</p>
		<p><b>EN 12566-4:2007</b> Small wastewater treatment systems for up to 50 PT - Part 4: Septic tanks assembled in situ from prefabricated kits</p>
		<p><b>EN 12566-6:2013</b> Small wastewater treatment systems for up to 50 PT - Part 6: Prefabricated treatment units for septic tank effluent</p>
		<p><b>EN 12566-7:2013</b> Small wastewater treatment systems for up to 50 PT - Part 7: Prefabricated tertiary treatment units</p>

<sup>1)</sup> System of assessment and verification of constancy of performance

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