

## Global Testing and Certification

PIA – Testing Institute for Wastewater Technology is the leading testing institution for small wastewater treatment plants and for ship wastewater treatment systems in the world. We provide you with all necessary information, verifications and tests. You can count on us to answer important questions about market requirements and market entry.



- PIA is accredited, certified and notified (NB 1739) with the European Union for testing wastewater products (EN 12566, EN 12050).
- PIA is a designated testing facility by the German Ship Safety Division.
- PIA is designated by the German Center for Competence in Construction for testing wastewater treatment systems.
- PIA is a qualified and recognized facility and an accepted laboratory by the U.S.Coast Guard.
- PIA is an accepted laboratory for testing wastewater treatment products according to NSF standards.
- PIA supports manufacturers to take part in the new EU program for the Verification of Environmental Technologies (ETV).

PIA collaborates with the RWTH Aachen University to link the industrial and academic world together.

## PIA - Prüfinstitut für Abwassertechnik

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# PIA



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## Wastewater Treatment



### CE tests according to EN 12566

CE marking is the basis for a **successful market entry in Europe**. For wastewater treatment plants the series of standards – EN 12566 – is used. With PIA support, you get all the tests needed for the declaration of performance and CE marking.

### NSF International tests

Tests according to NSF/ANSI standards are recommended if you would like to enter the American, Arabian or Asian markets. Currently, the **only place in Europe where tests according to NSF/ANSI standards 40, 245 and 350 can be carried out** is on PIA's test field in Aachen. For over ten years, PIA has maintained successful cooperation with NSF International.

### Australian tests

With AS 1546.3 Australia sets out requirements for secondary treatment systems (STS). The design hydraulic treatment capacities that may be tested in accordance with this standard range from a minimum of 1,200 l/d to a maximum of 5,000 l/d. **Performance tests and guidance on installation, operation and maintenance is provided by PIA only**. Since 2017 PIA is accepted laboratory by SAI Global/Australia. Currently PIA GmbH is the only testing institute which provides the performance test according to AS 1546.3:2017.

### Environmental Technology Verification (ETV)

Manufacturers interested in obtaining a recognized proof for their product may take part in the ETV program. Water treatment products and systems **ready to market and with performance claims not covered by regulations** and standards qualify for ETV. PIA supports companies participating in the ETV program. In accordance to ISO 14034:2016 these products and systems can be tested and verified.

## Material Tests



PIA provides material tests according to international standards. All materials, or containers and tanks manufactured, have to be examined for their suitability in terms of their intended use.

PIA offers testing for:

- Structural behavior
- Water tightness
- Reaction to fire
- Durability
- Leaching of dangerous substances

PIA has partners and cooperative bodies throughout Europe and can provide the appropriate material tests and the required expertise, wherever needed.

## Water (Re)Use



Due to water scarcity and droughts water (re)use is an issue of international concern.

Product testing and certification is a key element for international market acceptance and allows the manufacturer to have credible and independent proof of quality, performance and durability of their products.

PIA provides testing for:

- Residential graywater treatment systems according to European, NSF and Australian standards
- Residential wastewater treatment systems for water reuse according to NSF standards
- Rainwater catchment systems according to NSF standards
- Rainwater treatment systems according to NSF standards
- Commercial graywater treatment systems according to NSF standard

## Marine Services



PIA offers extensive service in the field of marine environmental protection equipment for the marine industry regarding:

- Wastewater
- Scrubber wash water
- Bilge water
- Ballast water

### Performance tests

PIA provides tests for approval of wastewater treatment systems in cooperation with flag state administrations and classification societies according to national and international standards:

- IMO guideline MEPC.227(64) – on board and land based
- United States Coast Guard (USCG) regulations in 33 CFR Part 159 as Recognized and Qualified Facility
- Rhine Vessel Inspection Regulations and Directive 2012/49/EU as Technical Service for inland passenger vessels

### Compliance testing

PIA offers testing for compliance during ship operation as required for example by Alaskan regulations for cruise ships and EU regulations for inland passenger vessels.

### Inspection and performance evaluation

PIA offers on board inspection and performance evaluation for marine sanitation devices (MSD) and other marine environmental protection systems.

### Training

PIA provides customized training for crew, shipowners, shipyards and authorities.