

# CERTIFICATION SERVICES



SAFETY THROUGH TECHNOLOGY



**aquastructures**

# Certification of Aquaculture Facilities



**Aquastructures** is Norway's leading provider of technical certification services to the aquaculture industry. All aquaculture facilities in Norway must meet requirements in the NYTEK regulation and the Norwegian standard NS 9415. The purpose is to prevent fish escape by ensuring sufficient technical standard at the facilities.



## Certification of Aquaculture Facilities

An aquaculture facility certificate ensure the owner and operating personnel that the facility meets requirements stated in NS 9415. Prior to issuance of the certificate, **Aquastructures** evaluates the facility and all its components on-site, as well as relevant technical documentation.

## Certificate of Main Component

Main Component Certificate is issued for old barges and floating collars without a product certificate. Analyses and inspections document that relevant requirements in NYTEK and NS 9415 are met for relevant environmental conditions. Main Component Certificate is also an alternative for components where the design lifetime has expired.

# Product Certification



**Aquastructures** provide certification services to several of the largest suppliers in the aquaculture industry. All main components, as floating collar, barges and construction parts for mooring, must be product certified according to the Norwegian standard NS 9415. We provide certification services for all types of main components, in addition to extra equipment. **Aquastructures** conduct the certification in close collaboration with the customer, where we aim to have a good dialogue throughout the process.



## Product Certification Approval

Suppliers of main components must be approved through a Product Certification Approval. This certificate confirm that the supplier has a satisfactory quality management system, and that the system is followed during production. The certificate ensure a safe and reliable product, from raw material to finished product.



## Product Certificate

A Product Certificate confirm that each unique product comply with NS 9415. Certified suppliers must, together with the product, deliver a Product Certificate and a user manual. The user manual ensure correct and safe use of the product throughout the design lifetime.

# Certification of Service Provider

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Become a certified service provider to the aquaculture industry with approval in accordance with NYTEK and the Norwegian standard NS 9415. [Aquastructures](#) evaluates and approve your quality management system. This to ensure services and operations are conducted in accordance with specifications from suppliers of main components. We provide certification services for:

- Operation, inspection and repair of nets at sea:
  - Deployment of nets
  - Control of temporary repairs at sea and reporting
- Operations and deployment of floating collars
  - Assembly, cleaning, towing and inspection
- Deployment and inspection of mooring components
  - Deployment and ROV control
  - Reporting
- Delousing operations
  - Mooring of vessels and equipment during operation
  - Safe execution



# Land based Aquaculture Product Certification

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## Technical report, fish escape

All land-based aquaculture facilities must have a report documenting the technical condition of the facility with respect to fish escape. This is regulated by Norwegian authorities. The report consists of:

- Condition survey
- Technical drawings of drainage- and delivery system
- Risk assessment for operation and delivery of fish
- Geotechnical survey
- Maintenance plan

[Aquastructures](#) has contributed to the development of a guide for condition survey of existing land-based aquaculture facilities. We provide condition surveys.

## Product Certification

Tanks and hoses delivered to land-based aquaculture facilities must fulfil the requirements in the Norwegian standard NS 9416 and be product certified. Certified suppliers must, together with the product, deliver a Product Certificate and a user manual. [Aquastructures](#) provide certification services for tanks and hoses.

**Aquastructures AS** is Norway's leading supplier of engineering- and certification services to the aquaculture industry.

We also own and develop the analysis tool AquaSim, which is used for calculations and visualization of mooring systems, marine operations, structures.

We provide mooring analyses, product certification, certification of aquaculture facilities, site surveys and engineering services.



**aquastructures**

**Trondheim – Oslo – Bergen – Rørvik – Tromsø – Alta**

**Aquastructures AS**

Kjøpmannsgata 21, N-7013 Trondheim

Phone: +47 73 83 17 47, [mail@aquastructures.no](mailto:mail@aquastructures.no)

[www.aquastructures.no](http://www.aquastructures.no) , [www.aquasim.no](http://www.aquasim.no)