



Aquaculture

THE CONCRETE SOLUTION





The Safe and Effective Solution

The Aqua-Tank at a Glance

Aqua-Tank provides a safe, cost effective method of containment with numerous applications within the aquaculture sector. Guaranteed factory controlled quality combined with a robust structure along with tried and tested design principles, offer life expectancy previously only achieved with cast in-situ installations.

Primary Features

Cost effective construction

- *Off-site manufacture, fast track installation;*

Rugged construction

- *resulting in 40-60 years design life;*

Guaranteed Quality

- *manufactured under factory conditions;*
- *internal tank finish steel float;*

Construction programmes reduced

- *fast track installation carried out in virtually any weather conditions*

Above or below ground installation;

Minimum maintenance;

Optimum storage capabilities

- *ranging from 50m³ to 12,500m³;*

Over 20 years product development;

Kit form construction

- *allows dismantling and re-siting in future;*

Health and Safety

- *standardised construction methods.*

The Aqua-Tank is one of the products offered by A-Consult who are the market leaders in the Design, Manufacture and Installation of Precast Concrete Tanks.

With our in-house Civil Design Department, headed up by a Chartered Civil Engineer, A-Consult offer professional advice regarding construction methodology. This invariably results in commercial savings through design development, whilst ensuring product performance is maximised.

The Aqua-Tank precast concrete tank systems are designed in accordance with BS8007 (1987) 'Design of Concrete Structure for Retaining Aqueous Liquids' and in accordance with other British Standards referred to therein, notably BS8110 'Structural use of Concrete'.

Designed to other recognised standards can also be facilitated. Through working closely with our Clients and their Consultants, the full potential of the A-Consult precast concrete tank can then be realised. Preformed apertures in the concrete panel to facilitate pipe work entry, complex decant arrangements, mixer entry points and man way access, casting in of sockets and channel to allow the fixing of M&E and other process equipment.



Ancillary Equipment

Ancillary equipment such as access ladders, platforms, man ways and staircases as well as multi material covers and roofs can be attached and supported by the wall structure. In short Aqua-Tank provides you with the complete solution for your total tanking needs.

Technical Features

The Aqua-Tank is constructed using high specification concrete panels held together by a series of circumferential 7 wire PE-sheeted grease impregnated tendons. The tendon is coated in highly corrosion resistant grease conforming to the recommendations of both the American Post Tensioning Institute and the FIB.

The PE-Sheeting is formed by the continuous hot extrusion of high density polyethylene or polypropylene to a minimum radial thickness of between 1.00mm and

2.00mm, again conforming to recommendations of both the American Post Tensioning Institute and the FIB.

Seals between each precast panel are made using our patented EPDM compound that when erected form a gasket between the panels and eliminate the risk of leakage.

Any tank will be subject to movements, these can be caused by high or low internal pressure from a full or empty tank, our EPDM seal has elastic qualities, which absorb any movement and provide further protection from different earth pressures or all year round weather conditions.

Our EPDM is extremely tough and retains its elasticity even when constantly subjected to ammonia and ultraviolet light.





A-CONSULT provide safe cost effective and durable precast concrete tank structures for numerous applications within the aquaculture, agriculture, water, waste and biogas sectors.

Thanks to more than 30 years of experience and a qualified staff, we are able to offer all items in relation to a complete tank construction.

Post-tensioned precast tanks have been a commercially viable alternative to in-situ concrete structures for over 30 years. During this time A-Consult have been at the forefront of product development, being amongst the first to locate the post tensioning tendons within the precast panel and responsible for developing the no maintenance EPDM rubber jointing gasket.



A-CONSULT LTD

The Barn, Manor Business Park
East Drayton, Retford DN22 OLG
Angleterre
Tél : +44 (0)1777 249444
info@aconsult.co.uk
www.aconsult.co.uk



A-CONSULT AGRO A/S

Fabriksvej 8, V. Lyby
7800 Skive
Danemark
Tél : +45 96 87 58 00
info@aconsult.dk
www.aconsult.dk



A-CONSULT GMBH

Werner-von-Siemens-Str.8
24837 Schleswig
Allemagne
Tél : +49 (0)46218550940
info@aconsult.de
www.aconsult.de



A-CONSULT SARL

22 Chemin des Coeurés
44210 Pornic
France
Tél : +33 (0)612 52 63 85
info@a-consult.fr
www.a-consult.fr