



# Fish Deterrent Systems

PROVEN TECHNIQUE | CONFORMS TO EA GUIDELINES



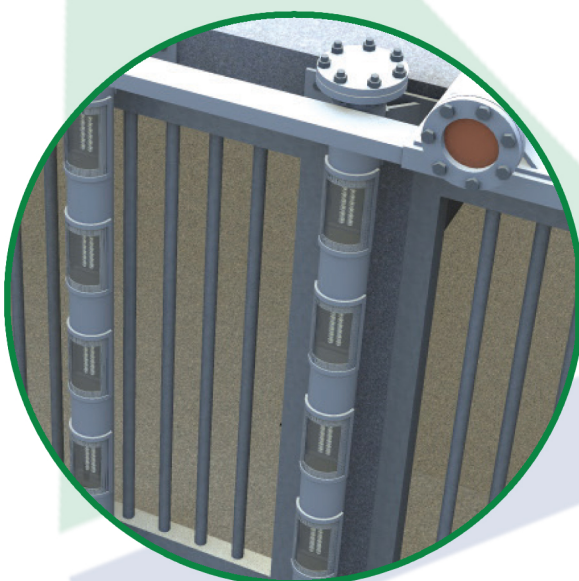
**INNOVATION** – Designed using the latest research on fish behaviour ensuring the highest fish deterrent rate.

**LOW ENERGY** – low energy LED lights which are intensified using lens technology giving the brightest light in the market.



**EFFECTIVE IN TURBID WATER** – turbid water is found to diffuse the strobe light disorientating and deterring fish.

**AUTOMATIC CLEANING** – Automated cleaning and maintenance systems are available. As are hoisting mechanisms providing easy access.



Fish have a natural aversion to bright stroboscopic light, our fish deterrent system uses this to keep fish away from water intakes such as pumping stations, navigation locks, cooling water intakes and hydropower turbines.

The Fish Deterrent Light system consists of a number of horizontal or vertical tubes where Fish Deterrent Lights are placed. The positioning of the lights inside the tubes prevents damage and protects the lights from plant and mollusc on-growth. Positioning of the lights is based upon the quality and turbidity of the water, the type of fish and the design of the system for which deterrent is required.

*Contents are accurate at the time of production, however are for illustration only. For critical technical information, please contact ACE for assistance.*

## Aquatic Control Engineering Ltd

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**Aquatic Control Engineering** have been market leaders in innovative water flow control for 20 years. Using high spec products from the Netherlands, we are proud to supply our customers with high quality innovative solutions and high standard installation services.

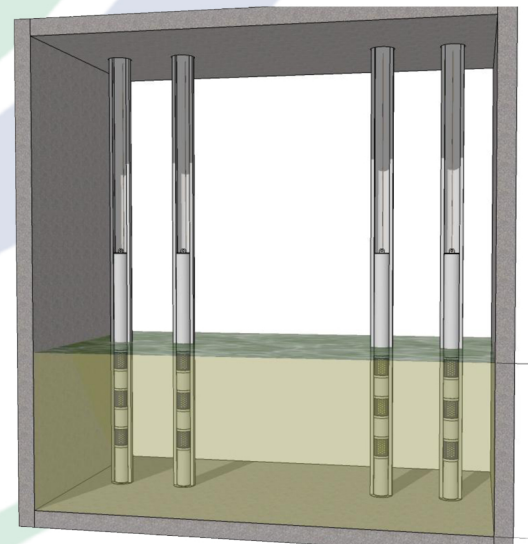
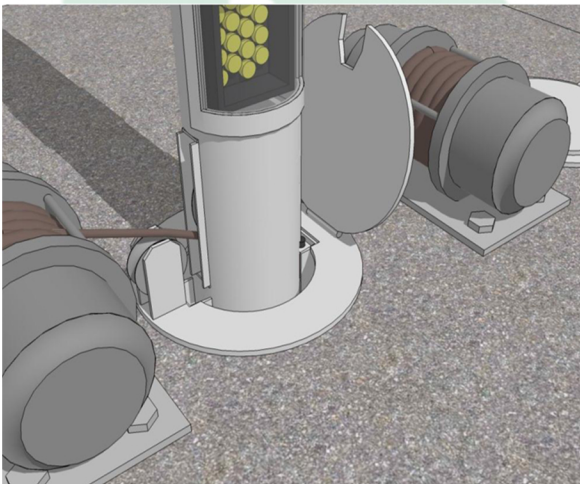
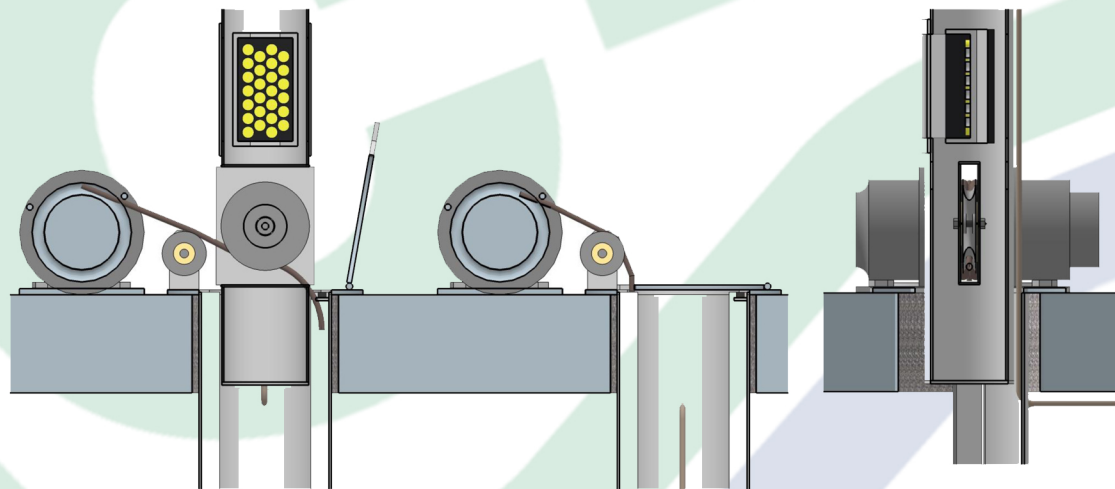
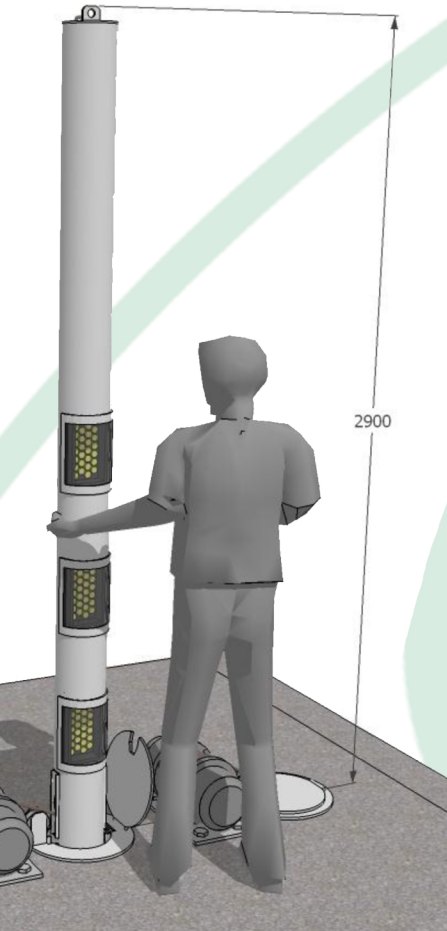


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## Research, Development and Testing

- Designed using the latest research on fish behaviour ensuring the highest fish deterrent rate.
- Conforms to Environment Agency good practice guidelines.
- Testing by IMARES Wageningen UR reported 10x fewer eels approaching Ijmuiden Pumping Station, Holland following the installation of these Fish Deterrent Lights 2011.
- Meerweg te Haren pumping station Strobe lights in conjunction with Venturi bypass allowed 8,272 fish out of 8,332 fish safe passage around the pumping station. This is a 0.6% mortality rate in 75 days.



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