

Fish Deterrent Systems

part of our Fish Migration Solutions Range



Fish Deterrent Light systems can be used to effectively deter fish from pumping stations, navigation locks, cooling water intakes and hydropower turbines. The lights can guide fish to alternative passage routes and thus significantly reduce fish mortality.

Using Nature's Response

Fish have a natural aversion to bright stroboscopic light, thus with the application of bright stroboscopic lights, fish can be kept away from water intakes. 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.

Key Design and Operational Features

'Strobe' light Design

- Features low energy consumption (24v)
- Strobe light is scientifically less likely to promote fish habituation than acoustics
- LED Light units intensified using lense technology giving the brightest light in the market
- Spacing and frequency of lights is adjusted to suit fish and water quality/turbidity

Dual Acoustic Options

- All our light systems are available as a dual system with acoustics
- Increases the variety of species deterred by these systems
- Application of sound follows the Environment Agency good practice guidelines for fish deterrents

Maintenance and Longevity

- 15 year design life and 36month manufacturer's warranty
- Automated cleaning and maintenance systems are available
- Can be fitted with a hoisting mechanism providing easy access for maintenance



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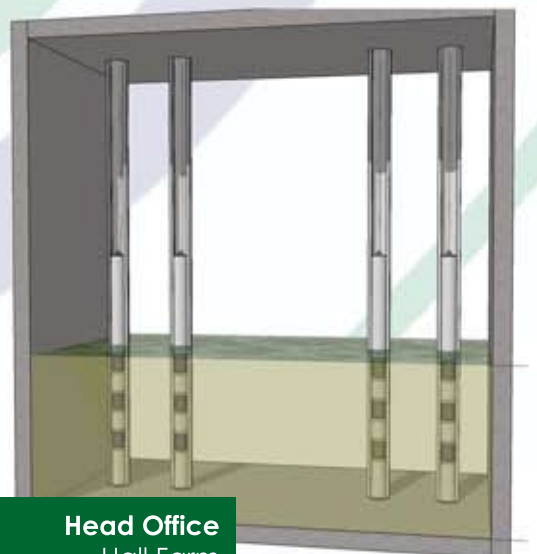
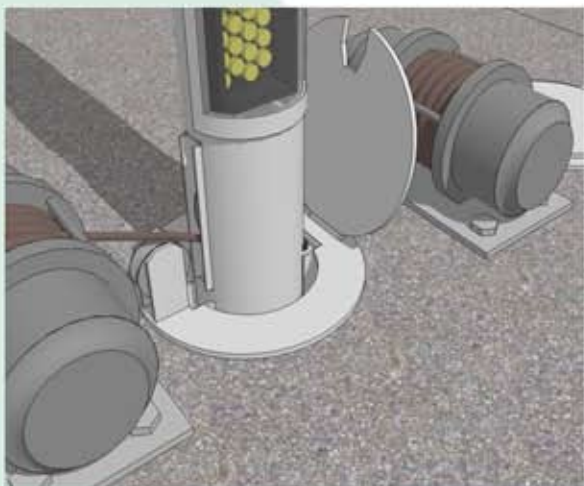
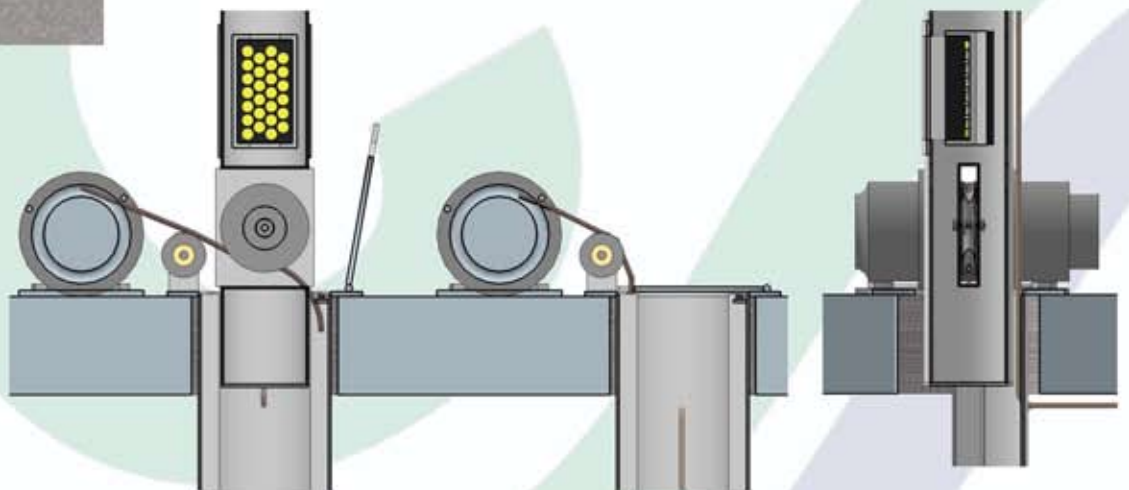
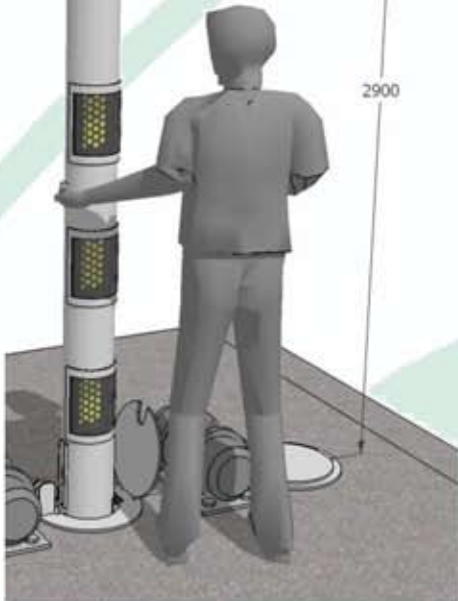


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Research, Development and Testing

- 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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