

FaunaGuard

AN INNOVATIVE MODULAR SYSTEM

Motivation

Environmental Piledriving works may cause:

- Harm to marine fauna
- Physical injury
- Aversive behavioural response

Presence of marine mammals causes:

- Soft start
- Full stop
- Removal procedures
- Reputational damage

Engineering

Marine construction activities such as piling, drilling, and blasting and large-scale dredging operations can cause deafness and other serious physical harm to local marine life if precautions are not taken.

FaunaGuard is an innovative modular system, which uses academically-validated sound patterns with award-winning acoustic transducer technology to protect marine fauna from high-energy events.

We safely target the hearing ranges of specific species – such as fish, seals, porpoises, or turtles – to create temporary exclusion zones around your project site.

Traditional measures

Traditional mitigating measures involve pausing activities once animals are observed in the inside the project site. These methods, though successfully used in practice, have limitations and can be costly.

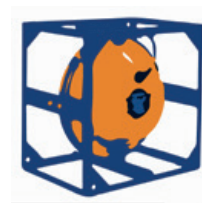
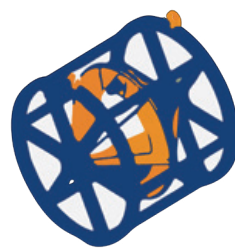
Visual observations are less effective when marine fauna are below surface, or when visibility is low. Methods that rely on physical contact may cause stress and impact to the fauna and are often not permitted.

Research

We guarantee effectiveness through collaboration with renowned marine research institutes and universities worldwide.

Independent experts in the fields of marine biology and underwater acoustics are involved to determine suitable sounds, and to study their effectiveness under laboratory conditions, followed by tests with wild animals in their natural environment.

FaunaGuard can be deployed 15 minutes before the start of loud sound-producing activity, which may be dangerous. Animals have time to move away, prior to it becoming potentially harmful. Sounds will remain novel, and animals are less likely to habituate to them.



Contact faunaguard@aceaquatec.com
for more information

Van Oord 
Marine ingenuity

ACE
AQUATEC

