

## Signature Management

# Acoustic signature control

Image: Courtesy of BAE Systems

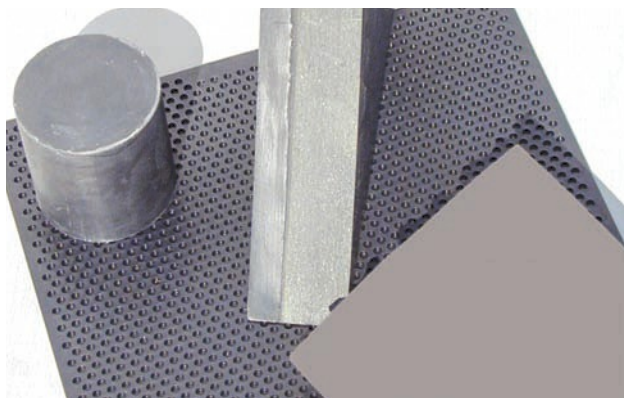
Trelleborg acoustic treatments can be applied to a platform in a variety of forms, enabling the most suitable material to be used across the widest range of applications. We currently supply UK MOD and its contractors and have supplied products to defence organizations throughout the world.

## Acoustic Signature Control

The fitting of properly designed acoustic material to submarines and surface ships can achieve a significant reduction in radiated and self noise. This will decrease the range at which vessels can be detected and classified and frequently has the benefit of increasing the performance of their own sonar systems.

## Anechoic Signature Control

In order to reduce the probability of detection by active sonar, it is possible to absorb or scatter the sonar energy, by the application of special coatings to the hull of the ship or submarine; the subsequent reduction in target echo strength can considerably reduce the range at which detection is achieved.



## The Products

Trelleborg manufactures a range of products to improve the signature of underwater platforms by reducing radiated noise and target strength. These products include:

- **Tiles** - Anechoic and decoupling tiles for ships and submarines and transmission loss and decoupling materials.
- **Sonar Materials** - To replace Glass Reinforced Plastic (GRP) for sonar domes and windows.
- **RhoC Materials** - Designed to match the impedance and speed of sound in sea water.
- **Damping Materials**
- **Encapsulation** - Large and small scale encapsulation of arrays with controlled exotherm.

## The Capability

Trelleborg has extensive manufacturing and test equipment for a wide range of elastomeric products. We are committed to delivering high quality, state of the art, materials tailored to meet customers' specific requirements. In partnership with QinetiQ we can design the acoustic materials you need.

## Contact Us

Trelleborg Applied Technologies delivers innovative and reliable solutions that maximize business performance to meet your needs. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.

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