

# SET YOUR COURSE FOR THERMAL ACOUSTIC CONTROL

On the water, there's no escaping shipboard noise. But advanced acoustic materials from Aearo Technologies LLC can help control it at the source. We offer a wide-ranging portfolio of solutions to control structural vibration, engine noise and even wave slap, plus thermal barriers for hot-running components. With these materials on board, you can equip your craft to beat the heat – and tone down the sound – so passengers can cruise and anchor in comfort.



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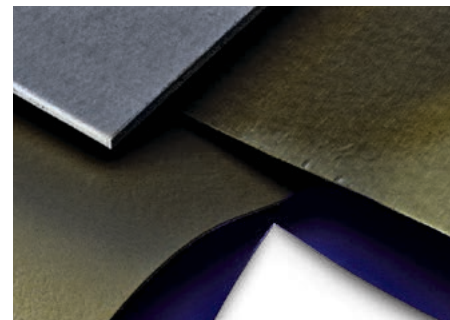
## STRUCTUREBONE DAMPING TO CONTROL VIBRATIONAL ENERGY



Boatbuilders face challenging design problems when working to control structureborne vibration. Our high-performing extensional and constrained layer damping materials are available to control both hydrodynamic and mechanically induced structural vibrations that transfer into the hull structure from the engine room or wave slap.

### Structureborne Damping Materials

- HMD Tiles
- ISODAMP™ C-1002
- ISODAMP™ C-2003



## AIRBORNE NOISE RADIATING FROM MECHANICAL EQUIPMENT



Airborne noise is radiated directly from the engines and impacts the surfaces within the engine room and passenger compartments. Foam barrier composites are especially suited for blocking engine room noise from being transmitted to adjacent passenger areas, and faced foam and fiber materials help absorb the noise inside the engine compartment.

### Acoustic Materials

- TUF-COTE™ Acoustic Foams
- 3M™ Thinsulate™ Insulation

### Barrier Composites

- Weighted Barrier

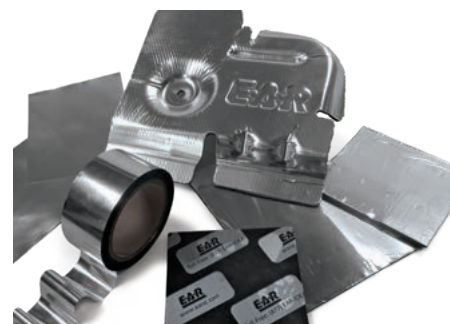


## THERMAL BARRIERS TO PROTECT COMPONENTS



Engine compartments and exhaust systems generate a tremendous amount of heat that can potentially damage surrounding components or transfer into passenger areas. Thermal barriers block and absorb heat from escaping into non-controlled areas, helping protect electronic materials and people from high heat sources.

- TUFshield™ Thermal Barrier



## ADDITIONAL MATERIAL HIGHLIGHTS

**Isolators** – Instruments and gauges can be shock mounted using energy-absorbing grommets and isolators.

**Aluminized Tape** – Aluminized tape for sealing foam with an aluminized facing helps protect from outside elements.

### Technical Information

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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