

Marine Acoustics



Vita Technical Foams

Vita Group

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With over 70 years' experience of being a market leader in acoustic and noise control, Vita can consistently deliver the highest standard of engineered solutions to the marine industry.

'Sound transmission & vibration within the craft can impact hearing, cause anxiety, stress, fatigue and impact sleep. This can be overcome by utilising tailored insulation & sound proofing design in the key problematic areas'

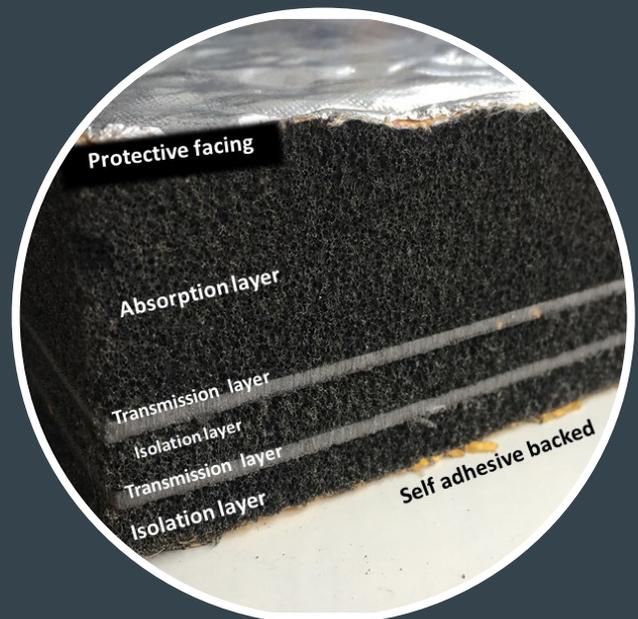
- The engine and engine room
- Living spaces and sleeping spaces
- Compressors and gensets
- The bulkhead
- The hull

Vita's marine insulation solutions provide:

- Acoustically optimised noise reduction targeting common speed ranges, cruising speeds and idling
- The lightest weight solution and aesthetically pleasing
- Safety critical design to meet marine FR standards
- Comfortable and quiet environment for the customer's best experience

Vita's premium marine laminates typically consisting of several layers in addition to a protective facing for cosmetic and practical functions:

- **Absorption Layer** - A thick layer of Class O Pyrosorb or UL94 HF1 Revesorb FT24 foam which absorbs noise and stops it bouncing around the engine compartment.
- **Transmission Layer** - A high density polymeric barrier that provides the highest possible mass for the job of transmission loss (stops noise from getting through to other areas of the boat at the application wall).
- **Isolation Layer** - This additional layer of Class O Pyrosorb or UL94 HF1 Revesorb FT24 foam has a crucial function acting like the gap in double glazing and stops the noise that hits the transmission layer being carried through to the bulkhead.



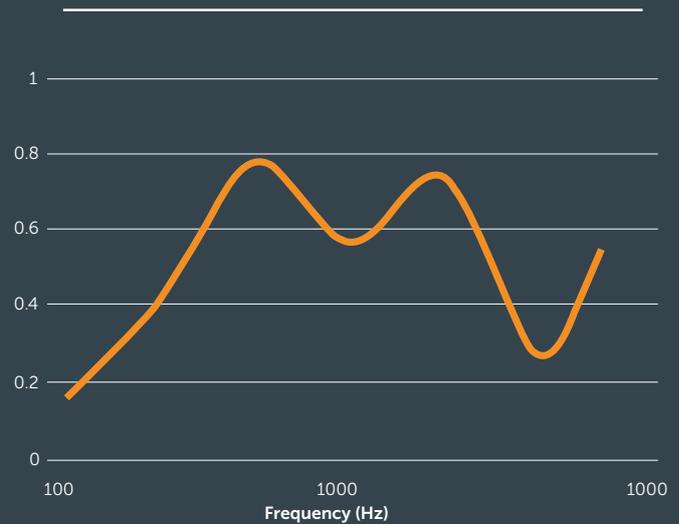
PYROSORB-S-2DS2-GC2-AD3

6/6/30mm (Featured example)

Heavy duty Foil faced woven fibre glass cloth laminated to 30mm Pyrosorb-S Class "0" foam bonded to a 4kg/m² polymeric damping sheet, laminated to a 6mm Pyrosorb-S Class "0" foam and another polymeric damping sheet layer laminated to another 6mm layer of Pyrosorb-S Class "0" foam with self-adhesive backing.

Glass Cloth	GC4
Weight g/m ²	340
Temperature Range °C	-40 to +70 (continuous)
Short term Temperature Resistance °C	150
Colour/Finish	Silver Foil
Fire Rating:	
BS4735: 1971	Self Extinguishing
FMVSS302	Self Extinguishing
BS476 Part 7	Class 1
BS476 Part 6	I≤12, i ₁ ≤6
BS476 Part 4	Non Combustible

ABSORPTION COEFFICIENTS:
(NORMAL INCIDENCE)



Vita's Marine product range has been developed to target common noise nuisance frequency ranges. Custom composites are also available.

- PYROSORB-S-DS2-RA1-AD3 10/25mm
- FT24-DS2-RA1-AD3 10/25mm
- PYROSORB-S-DS2-RA1-AD3 6/6mm
- PYROSORB-S-2DS2-GC4-AD3 6/6/30mm
- PYROSORB-S-2DS2-GC2-AD3 6/6/30mm
- PYROSORB-S-2DS2-GC2-AD3 6/6/12mm
- PYROSORB-S-2DS2-GC4-AD3 6/6/45mm
- PYROSORB-S-2DS2-GC2-AD3 6/6/45mm)
- PYROSORB-S-DS2-GC2-AD3 6/6mm)



ABSORPTION COEFFICIENT OF COMPOSITES NORMAL INCIDENCE

