

SIDERISE® Aquafon

A soft flexible quilt with an outer reflective foil faced acoustic membrane, offering excellent durability and sound insulation qualities for marine applications.

Application

SIDERISE® Aquafon acoustic barrier for marine applications is a range of soft flexible acoustic barrier quilts with two specifications of the acoustic membrane to suit many varied applications.

It comprises a flexible resin-bonded glass fibre quilt contained within an anti-dusting fleece and 'zig zag' stitched, with an outer acoustic membrane with a surface weight of either 5kg/m² or 10kg/m². The exposed surface of the product is finished with a Class '0' reinforced aluminium foil.

It is particularly suited for use as engine room bulkhead lining. The insulation layer is an efficient thermal insulation material, and the outer foil-faced barrier forms an effective vapour barrier.

It can also be used as an external lining sheet for ducts, pipes and tanks.



Benefits

- Recreational Craft Directive 2013/52/EU compliant for engine compartment insulation
- Class '0' fire rated
- High acoustic performance
- Good dampening characteristics
- Flexible and easy to install

Installation

SIDERISE® Aquafon acoustic barrier for marine applications is normally fixed using through mechanical fixings such as insulation support pins with non-return washers. The frequency of use is influenced by the orientation of the barrier (e.g., vertical or underside of horizontal) and the presence of any secondary cladding providing additional restraint.

As a general guide fixings should be provided at 300mm centres. Suitable insulation support pins include: spotwelded; separate adhesive and self-adhesive. In the case of the latter, it is essential to secure the self-adhesive base to the background by additional mechanical fixing e.g., blind riveting, self-tapping screws, etc.

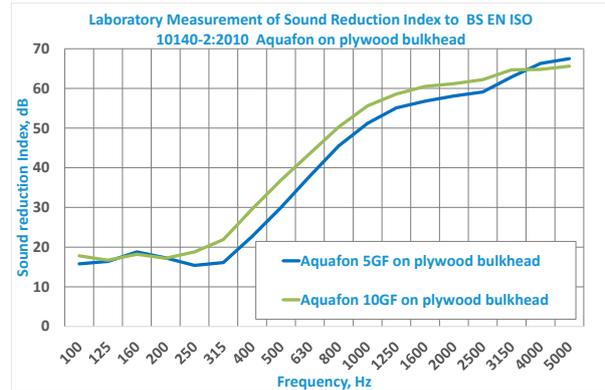
To maximise acoustic performance, it is important to maintain continuity of the sound barrier membrane. For this reason, the product should butt jointed with the joint sealed by the application of a self-adhesive aluminium foil tape.

Acoustic Performance

Laboratory measured SRI (BS EN ISO 10140-2:2010)

Rating according to BS EN ISO 717-1:2013

Aquafon 5GF on plywood bukhead	31dB R _w
Aquafon 10GF on plywood	34dB R _w



The improvement in sound transmission loss for the application of Aquafon to a light-weight structure is dependent on a number of factors.

These include:

- Selected membrane weight
- Surface weight of the original background sheet

Typical level of improvement in sound reduction performance for the application of a single layer of Aquafon 10GF to a plywood bulkhead is: 18dB (mean value for frequency range 100 – 3150 Hz)

Fire Performance

	Aquaфон 5GF	Aquaфон 10GF
Recreational Craft Directive 2013/53/EU BS EN ISO 9094:2017	Oxygen index >80% at 60°C	Oxygen index >80% at 60°C
Building Regulations (Approved Document B) National Class (to BS 476 Part 6 and 7)	Class 0	Class 0

Technical specification

Form supplied	Cartonised: 1000mm x 600mm Flat sheets: 1200mm x 1000mm
Working Temperature	-20°C to +93°
Insulation layer type	Resin bonded glass fibre quilt
Acoustic layer type	Limp acoustic membrane

Property	Aquaфон 5GF	Aquaфон 10GF
Thickness	27mm nominal	30mm nominal
Surface mass	6kg/m ² nominal	11kg/m ² nominal

Further information

Additional options

The following options are available:

- Can be supplied with high performance acrylic pressure-sensitive adhesive (PSA) backing to assist installation

Additional information

The following information is available upon request:

- 1/3rd octave data available on request
- Safety Data Sheet

Environmental

SIDERISE® Aquafon acoustic barrier for marine applications is environmentally friendly.

- It contains no Volatile Organic Compounds (VOCs) and no very Volatile Organic Compounds (vVOCs)
- Zero Ozone Depleting Potential
- Global Warming Potential of less than 5
- Recyclable

Technical support

For further information please contact our technical team at the address below.

Available CPDs

Contact SIDERISE® for further information on our CPDs:

- Internal treatment of HVAC elements - Absorption
- External treatment of HVAC elements – Sound break out
- Sound Energy / Acoustic Principles

Sales & Technical

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