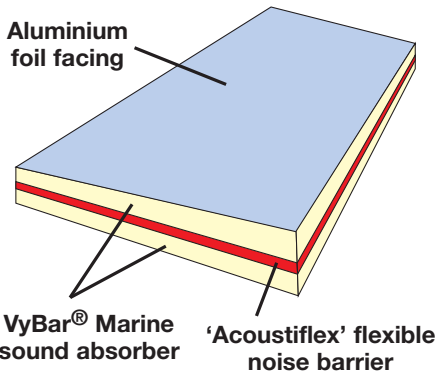


VyBar[®] Marine

The 'Ultimate' Acoustic Product

Features & Benefits

- Asbestos free
- **VyBar[®] Marine** will not contribute to metal corrosion
- **VyBar[®] Marine** will not decay, sustain mould or vermin, nor will absorb odours
- Non toxic
- Will conform to irregular surfaces
- Low cost
- Easily cut and fabricated
- Can be supplied with self-adhesive backing



Description

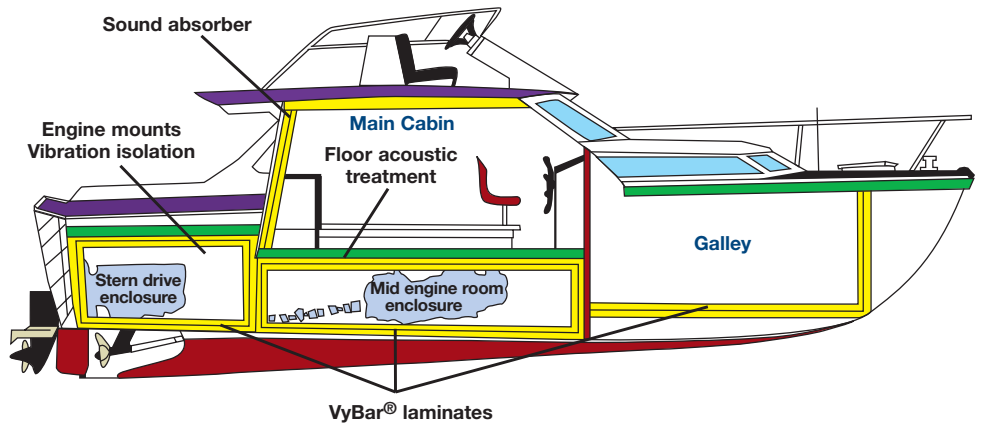
VyBar[®] Marine is a thin flexible noise barrier laminated between two layers of 'needle-punched' polyester sound absorbent/vibration decoupler.

The material is faced with a reinforced aluminium foil.

VyBar[®] Marine has a unique material construction which results in a high sound absorption, high resilience, high compression loading and high fire resistant capability.

VyBar[®] Marine effectively treats the often combined phenomena of vibrations, sound transmission and sound reverberation encountered with most noise problems.

This economical acoustic material effectively reduces sound radiation and sound transmission in the critical frequency region of rigid panels (e.g. steel, aluminium, fibreglass panels).



VyBar[®] Marine will not rot, will not be affected by salt water & most chemicals, will not shed fibres and is hydrolysis resistant.

Contrary to foam based products, **VyBar[®] Marine** will not disintegrate and will last a very long time (over 20 years).

VyBar[®] Marine laminates come with a plain or perforated heavy duty aluminium foil facing.

VyBar[®] Marine laminates were specifically engineered to absorb and control noise in main and auxiliary engine enclosures and to line partition walls and bulkheads.

Applications

- Enclosure lining
- Engine room lining/boats
- Acoustic panels/baffles
- Under carpet sound absorber
- Floating Floors
- Firewalls of cars, trucks, buses
- Floating concrete slab
- Vibration insulation/decoupled layer
- Stud wall construction
- Noise reverberation control/pin board
- Duct lining
- Vibrating surfaces - granulators, tanks

Advantages

VyBar[®] Marine, WILL NOT, like most acoustic foams, be subject to hydrolysis and will last in salty and humid conditions.

VyBar[®] Marine WILL NOT break down, like fibreglass or rockwool, even under severe vibrations.

VyBar[®] Marine is water repellent and will not act like a sponge.

PRODUCT SAMPLE

VyBar[®] Marine

The 'Ultimate' Acoustic Product

Properties Comparison

Properties	VyBar [®] Marine	Rockwool	Fibreglass	Acoustic Foams Foams Composites
Affected by oils	No	No	No	Yes
Affected by water	No	Yes	Yes	Yes
Affected by hydrolysis	No	No	No	Yes
Affected by vibrations	No	Yes	Yes	No
Life expectancy	Indefinite	Will disintegrate (Vibrations)	Will disintegrate (Vibrations)	6/7 years maximum
Handling	No requirements	Require protection	Require protection	No requirements
Flammability	Comply	Comply	Comply	Comply
Installation	Adhesive or mechanical	Mechanical only	Mechanical only	Adhesive or mechanical
Strength	Very strong	Fibres brake easily	Fibres brake easily	Lose strength over time disintegrates
Recyclable	Yes	No	No	No
Health effects	NONE	Controversial/Itchy	Controversial/Itchy	Slow release of gas

Flammability* – AS1530.3 – 1989

Material	Ignitability	Spread of Flame	Heat Evolved	Smoke Developed
VyBar [®] Marine 848F, 868F, 888F	0	0	0	0 - 1
VyBar [®] Marine 48F, 68F, 88F	0	0	0	0 - 1

*Commonwealth Scientific and Industrial Research Organisation (CSIRO) test on an aluminium foil faced insulation in accordance with IMO Resolution A.635 (16) as amended by Resolution MSC 61 (67).

Vybar[®] Marine meets the requirements for low flame spread of a bulkhead, wall and ceiling lining as specified by the International Convention for the Safety of life at Sea, 1974.

Vybar[®] Marine also meets the technical requirements according to IMO Resolution MSC 61 (67), Annex 2, Section 2.2.

Miscellaneous Properties

Material	Colour	Weight	Service Temp. Range
VyBar [®] Marine 848F	Silver	9.7kg/m ²	-50 to 120°C
VyBar [®] Marine 48F	Silver	7.0kg/m ²	-50 to 120°C

Sound Transmission Loss**

FREQUENCY 1/3 Octave Centre Frequency (Hz)	RANDOM INCIDENCE TRANSMISSION LOSS (dB)		
	VyBar [®] Marine 848F	VyBar [®] Marine 868F	VyBar [®] Marine 888F
100	12	13	15
125	14	14	16
160	14	16	19
200	14	16	20
250	16	15	20
315	19	21	21
400	21	22	24
500	21	25	27
630	22	26	27
800	24	28	29
1000	26	30	32
1250	27	32	32
1600	28	34	33
2000	31	36	37
2500	35	39	39
3150	36	43	43
4000	38	45	46
5000	43	47	48
STC	25	27	30

**IMPORTANT NOTE:

The above Sound Transmission Loss is for the "Acoustiflex" sandwiched flexible sound barrier only. The actual Vybar[®] Marine composite sound barrier/absorber material will achieve a 5-6 dB increased performance than indicated in the above table.

Material Safety Data

Health, Safety & Toxicology

Health Effects: No known physical or health hazards associated with this product. Swallowed - Eye - Skin or Inhaled: The product has been tested for toxicity by skin tests on humans and by laboratory feed tests. No toxic reactions have been observed. No health effects have been reported which can be attributed to these products.

First Aid - Swallowed - eye - skin - inhaled:

Not applicable

Advice to doctor: Not applicable

Precautions for use

Exposure Limits: Unlimited

Ventilation: No special requirements

Personal Protection: No special requirements

Safe Handling Information

Storage & Transport: No special requirements

Disposal: 100% recyclable

Fire - Explosion Hazards: Very low flame response. Will not explode. Use any fire fighting appliance. Like most organic materials gives off CO & CO₂ during combustion.



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