



## VyBar<sup>®</sup> Marine

Rigid Acoustic Laminate insulation for Marine Applications

Acoustica's VyBar<sup>®</sup> Marine is a rigid laminate noise barrier which has been specifically engineered to absorb and control noise and vibration in main and auxiliary engine enclosures and to line partition walls and bulkheads in marine vessels.

Tested and certified to meet the International Maritime Organisation resolution A635 (16) – recommendation on Improved Fire Test Procedures for Surface Flammability as amended by Resolution MSC 61 (67).

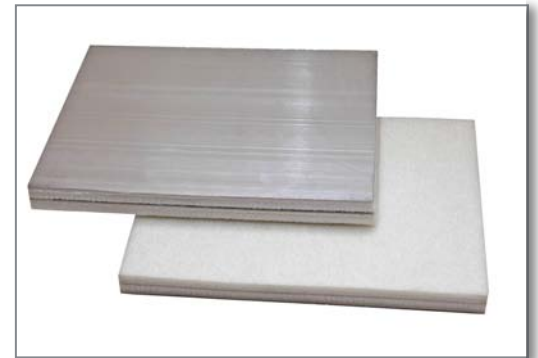
VyBar<sup>®</sup> Marine has a unique material construction which unlike many other insulation materials results in high sound absorption coupled with resilience and compression loading capability.

VyBar<sup>®</sup> Marine has been tested by the CSIRO and certified that it 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 and the technical requirements of the amended IMO resolution MSC61 (67), Annex2, section 2.2.

VyBar<sup>®</sup> Marine effectively treats the often combined phenomena of vibrations, sound transmission and sound reverberation encountered with most noise problems.



VyBar<sup>®</sup> Marine 48F 10mm



VyBar<sup>®</sup> Marine 848F 20mm

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## Features

- ✓ Group 1 Fire Rating
- ✓ Low cost, long lasting
- ✓ 10 year guarantee
- ✓ Easy to handle, cut and install
- ✓ Available in two thicknesses
- ✓ Unaffected by vibration, oil, water and hydrolysis
- ✓ Environmentally safe (no protective wear required)
- ✓ Made in Australia

## Description

**VyBar® Marine** is available in wads of thermally bonded 100% polyester fibres faced on one side with a visco-elastic acoustic barrier and an aluminium foil. VyBar® Marine is a semi-rigid laminate.

### Standard Sheet dimensions:

- 1200 x 1200 x 10 mm (VyBar® 48F)
- 1200 x 1200 x 20 mm (VyBar® 848F)

**Contact your local Acoustica distributor to discuss your special requirements.**

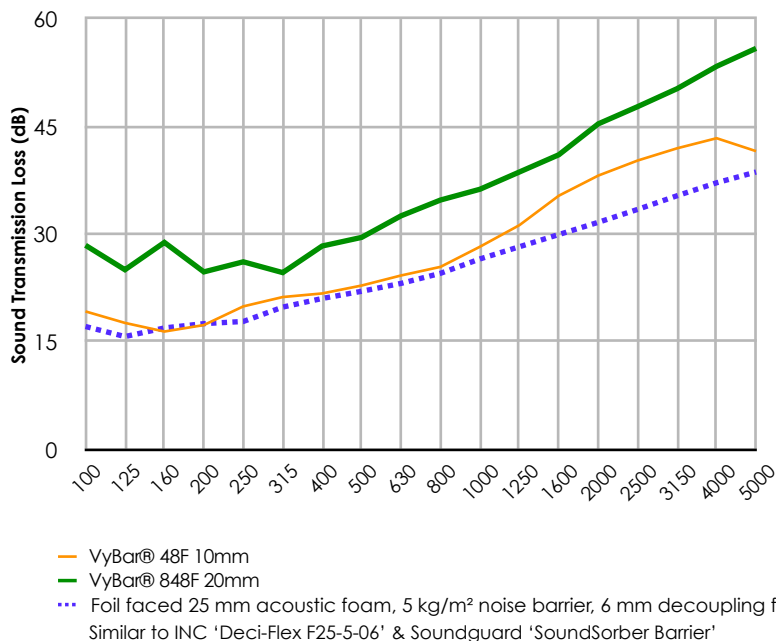
## Applications

- ✓ Auxiliary engine enclosures
- ✓ Line partition walls and bulkheads
- ✓ Reduces sound transmission in critical frequency region of rigid panels such as steel, fibreglass, aluminium, etc.

### Flammability:

VyBar® Marine is fire rated according to AS1530.3

- Ignitability Index (0-20) = 0
- Spread of Flame (0-10) = 0
- Heat Evolved Index (0-10) = 0
- Smoke Developed Index (0-10) = 0-1



### Sound Transmission Loss

Frequency (Hz)	Sound Transmission Loss (dB) for material bonded to 2 mm aluminium		
	VyBar 48F	VyBar 848F	Foil Faced 25 mm Acoustic Foam, 5 kg/m² Noise Barrier 6 mm Decoupling Foam (Similar to INC 'Deci-Flex F25-5-06' & Soundguard 'SoundSorber Barrier')
100	19.2	28.4	17.1
125	17.6	25	15.7
160	16.4	28.8	16.9
200	17.3	24.7	17.5
250	19.9	26.1	17.8
315	21.2	24.6	19.8
400	21.7	28.3	21
500	22.8	29.5	22
630	24.2	32.5	23.1
800	25.4	34.7	24.5
1000	28.2	36.2	26.5
1250	31.2	38.6	28.2
1600	35.3	41	29.9
2000	38.1	45.3	31.6
2500	40.2	47.7	33.4
3150	41.9	50.2	35.3
4000	43.3	53.3	37.1
5000	41.5	55.8	38.6
Rw	28	35	30
Ctr	-3	-3	
Rw + Ctr	25	32	

## Recommended Installation of VyBar<sup>®</sup> Marine

### Installation

For optimum benefit VyBar<sup>®</sup> Marine must be properly & carefully installed.

Where airflow is required expert advice should be sought from our engineer, as acoustic baffles may be required.

It is of utmost importance that any seals be airtight for best results.

### Pinning, Gluing & Taping

If vessel is being insulated against both sound & fire, welded metal or bimetal pins are recommended.

If vessel is only being insulated against sound, adhesive PVC pins are acceptable.

Pins should be installed starting 200 mm max from material edges in a 300 x 300 grid pattern.

All edges & joints must be taped with an alloy foil tape supplied or approved by Acoustica.

Fire resistant glue is recommended.

### Cutting

VyBar<sup>®</sup> Marine are easy to cut to size & install.

Measure the area to be treated carefully & apply the measurements to the VyBar<sup>®</sup> Marine with a black felt tip marker.

Always leave 2-3 mm all around for a tight fit, even when cutting from a pattern.

If there is a space between the VyBar<sup>®</sup> Marine and the surface it is being adhered to, a backing washer should be installed on the pin prior to installing the material. This will ensure a secure fixing.

Example Installations

