

# SIDERISE® NC-4490 MARINE NOISE CONTROL

Market leading noise control for marine vessels. Combining noise reduction, and fire and thermal protection for bulkheads and decks.

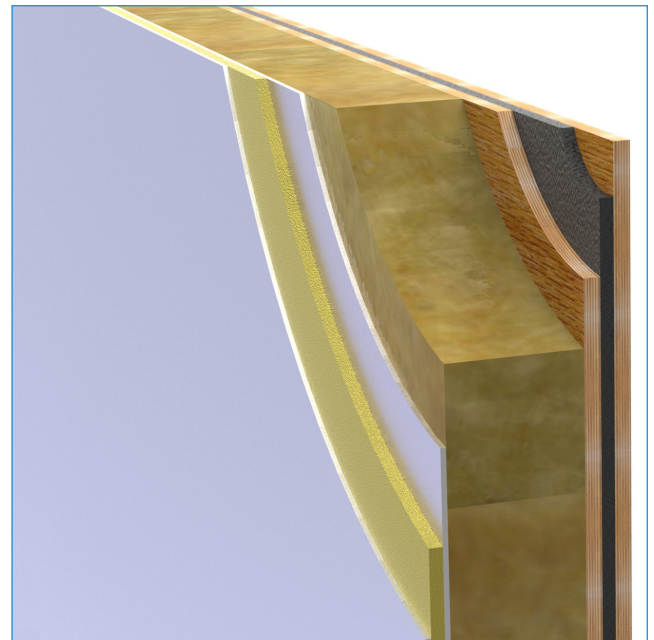
## Application

For marine vessels there is typically the following challenging requirements for insulation treatments:

- Reduced weight
- Confined space
- Shallow depth partitions
- High levels of low frequency noise
- High aesthetic finish

SIDERISE has over 40 years expertise in insulation solutions, including acoustics and noise control, thermal insulation and passive fire protection.

SIDERISE NC-4490 Marine Noise Control has been engineered for minimum weight and thickness whilst still delivering sound reduction performance.



## Features

- Excellent acoustic & fire performance
- High aesthetic finish
- Slim profile
- Mechanical strength
- Aluminium finish

## SIDERISE insulation solutions

- Over 40 years of expertise in insulation solutions
- Compliance and quality assurance
- Bespoke solutions and advice
- Design and specification service

## Benefits

- Optimised for performance, weight and space saving
- Reduces noise issues on board, promoting comfort and protecting passengers and crew
- Fire safety protecting lives and preserving vessels
- Environmental protection, through fire safety, noise control and thermal efficiency

<b>Rw</b>	<b>54dB</b>
EN ISO 717-1 : 2013	

## Acoustic performance

SIDERISE NC-4490 delivers low frequency sound absorption and sound reduction, both lowering the sound pressure level within the engine room at critical frequencies and limiting sound transmission into occupied spaces.

## Product design

- Low weight core – 4kg/m<sup>2</sup>
- Reduced space – 50mm core thickness
- Fire safety – A1 to EN13501
- Thermal performance
- Inhibition of fuel & oil ingress

SIDERISE acoustic products have been developed over a number of years and are third-party tested to certify their performance.

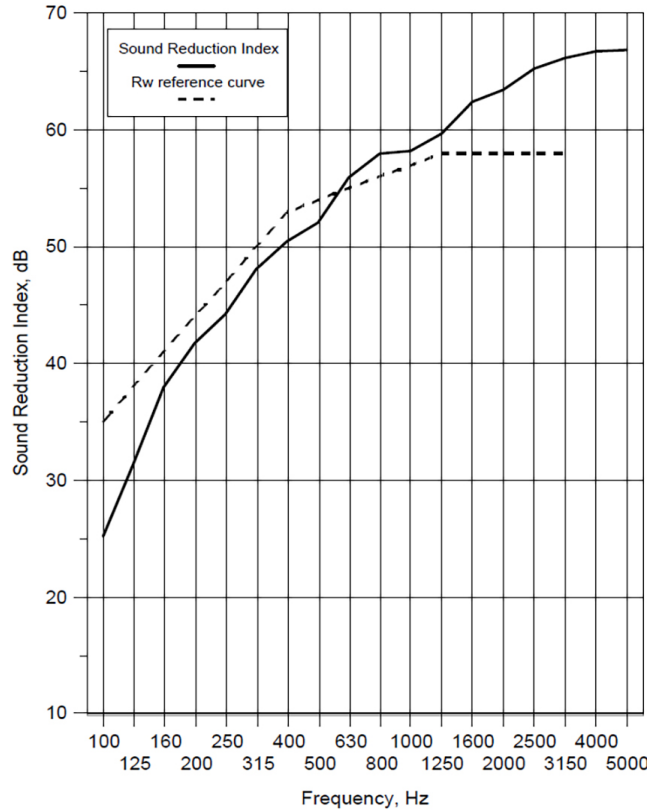
We can deliver the ultimate balance between acoustic performance, weight and cost.

## Advice and consultation

SIDERISE is able to provide customised solutions specific to your vessel, where the material construction is engineered for optimum performance dependant on the dominant frequencies, and the specific structure and design requirements of your vessel.

## Sound reduction index\*

Tested to EN ISO 14140-2 : 2010.



\*Mounted on 17mm composite bulkhead

TABLE 1 : Acoustic performance

Frequency (Hz)	125	250	500	1000	2000	4000	Rw*
Sound Reduction Index (dB)	28.8	44.0	52.3	58.6	63.6	66.6	54

## Technical specification

<b>Product</b>	<b>SIDERISE NC-4490</b>	
<b>Thickness</b>	mm	50 (specific thicknesses available on request)
<b>Core density</b>	kg/m <sup>3</sup>	80
<b>Acoustic performance</b>	EN ISO 717-1	Rw 54dB (59mm)
<b>Fire performance</b>	EN13501-1	A1
	ISO 4589-3	>21%
	RCD	Compliant
	MED B-7489	A-60 Aluminium Deck (50mm) A-60 Aluminium Bulkhead (60mm)
<b>Temperature resistance (core)</b>	°C	1000
<b>Thermal conductivity</b>	W/m.K	0.034
<b>Surface finish</b>	Aluminium	

## Environmental

SIDERISE Marine Noise Control is environmentally friendly.

- REACH compliant
- They contain no Volatile Organic Compounds (VOCs)
- Zero Ozone Depleting
- Zero Global Warming Potential
- Recyclable.

## Quality assurance

SIDERISE products are manufactured to stringent quality control systems to assure that our customers receive materials made to the highest standards.

Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures. Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.

# Further information

## Documents available

The following information is available upon request or via download from the website:

- Safety data sheet
- Acoustic test report
- Fire test report
- Installation instructions

## Technical support

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

## Global distributors

For local supply please visit our website – [www.siderise.com](http://www.siderise.com).



### SIDERISE GROUP

Lady Lane Industrial Estate,  
Hadleigh, Suffolk, UK, IP7 6BQ  
T: +44 (0)1473 827695  
F: +44 (0)1473 827179  
E: [marine@siderise.com](mailto:marine@siderise.com)  
W: [www.siderise.com](http://www.siderise.com)