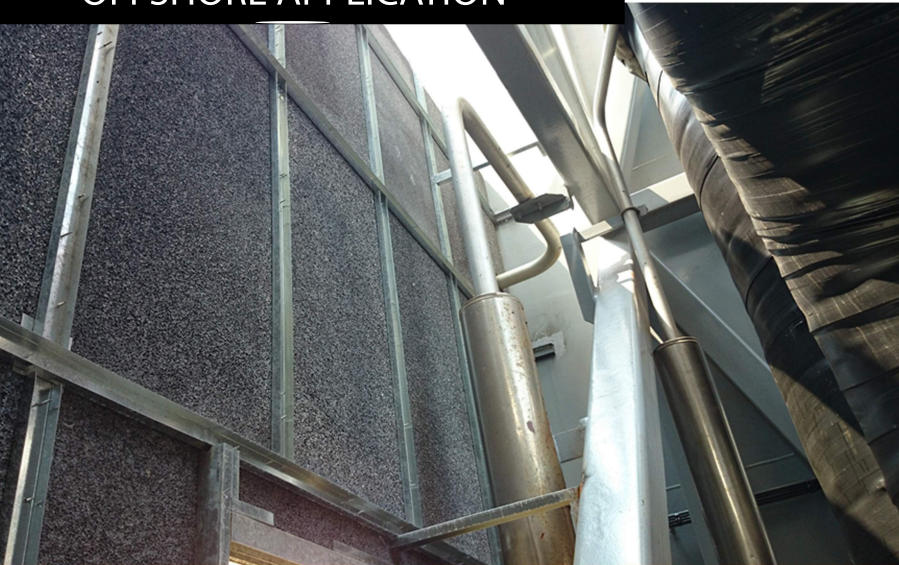


# FORTESHIELD™

aluminium foam panel



## CASE STUDY FOR MARINE & OFFSHORE APPLICATION



### Background/Issue

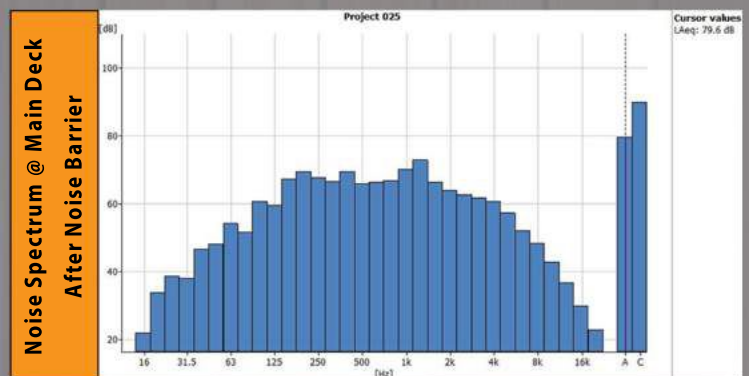
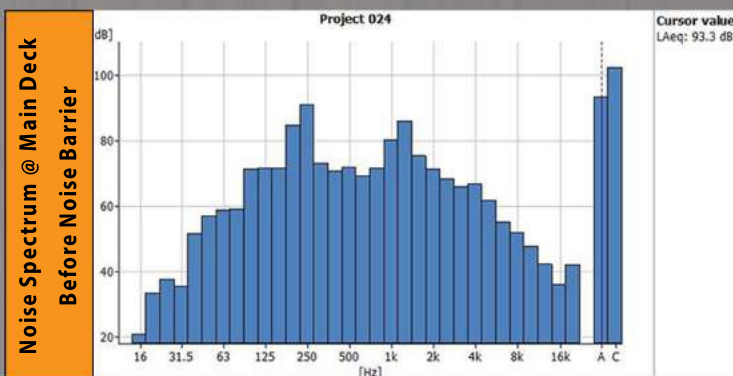
- Two main engine exhausts on the main deck of an offshore facility caused noise issue which resulted in non-compliance to comfort requirements for ABS Guide for Crew Habitability on Offshore Installations, Section 4, 2002.

### Objective

- To meet the requirements of the classification body, mitigation measures were implemented to meet the noise criteria of 85 dB(A) on the main deck.

### On Site Pre and Post Mitigation Measurements

Noise Level @ Main Deck BEFORE Noise Barrier	Noise Level @ Main Deck AFTER Noise Barrier	Reduction in Noise Level
93.3 dB(A)	79.6 dB(A)	13.3 dB(A)



Being an operational offshore facility where fire hazard is a primary concern, aluminum foam panels were used to erect a noise barrier due to their properties of being:

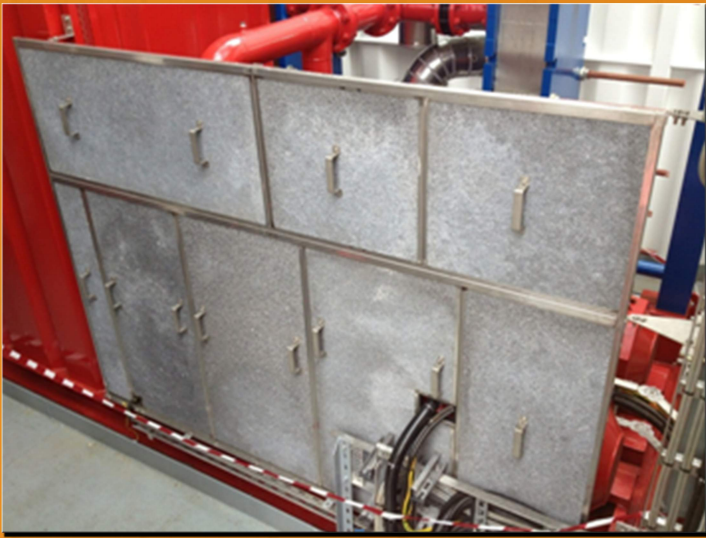
- Lightweight
- Non-combustible
- Corrosion-resistant



View From Deck



View Inside the Barrier



**FORTES Innovations Pte Ltd** is an organization who believes is making more friends than foes, especially with our Mother Earth and the environment. Thus, we constantly seek, source, search and bring together products and/or services which are either environmentally-conscious, sustainable, innovative or renewable. The 3Rs are major considerations in our quest – Reduce raw materials and wastage, Retrieve and salvage common materials to be re-used, and Recycle materials by re-working them as inputs into new products. In doing so, we consider ourselves Friends Of Renewable Technologies which are Environmental and Sustainable. Our services include **Product Resource Management, Product Resource Innovation, and Technical Feasibility Study**.

**FORTES INNOVATIONS PTE LTD**

18 Boon Lay Way #03-113  
Tradehub 21 Singapore 609966

Tel: (65) 6570 0744 Fax: (65) 6570 3200  
Website: [www.fortes-innovations.com](http://www.fortes-innovations.com)  
Email: [sales@fortes-innovations.com](mailto:sales@fortes-innovations.com)