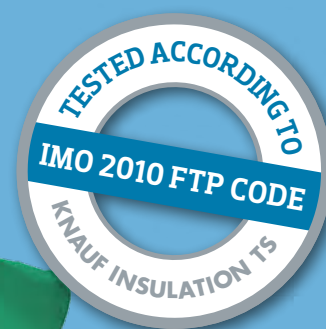


## SAILING COMFORTABLY UNDER THE ECOSE® FLAG



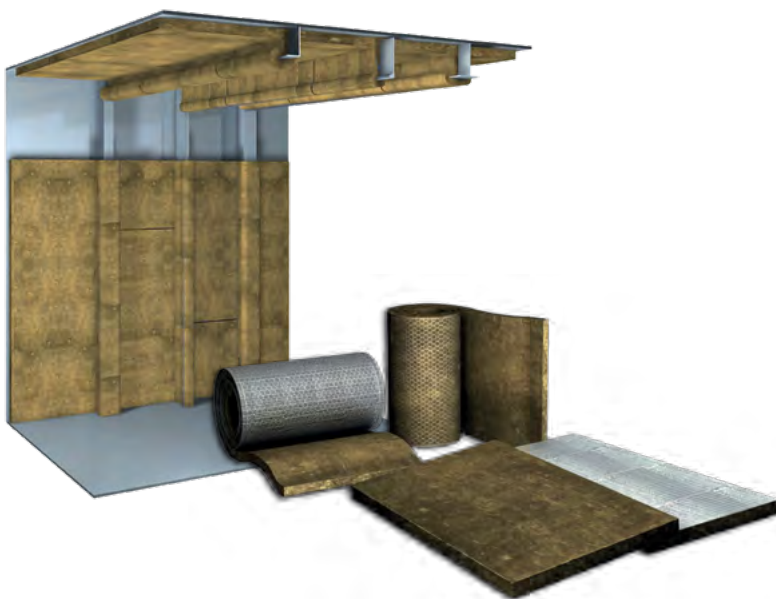
with **ECOSE®** TECHNOLOGY

Knauf Insulation Sea-teK® product  
portfolio with ECOSE® Technology



challenge.  
create.  
care.

# A-CLASS STEEL DECK AND BULKHEAD BOARDS AND WIRED MATS



In order to achieve the highest on-board fire safety our specially developed Sea-teK® products are certified for non-combustibility as well as low flame spread characteristics, according to IMO 2010 FTP Code. Sea-teK® boards and wire mats have been tested in several A-class steel deck and bulkhead structures, achieving different fire resistance classes. Production quality assurance of Sea-teK® products is performed by DNV.

## APPLICATION NOTES:

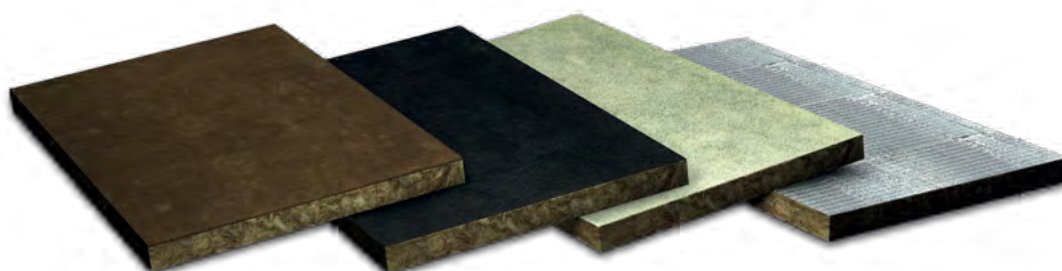
- ✓ Different stiffeners shapes and insulation variations.
- ✓ Alternative pin designs.
- ✓ Comfortable and fast installation with combination of wired mats Sea-teK® WM 100 for stiffener and boards Sea-teK® BD 100 for plate insulation.

## TECHNICAL DATA

A-Class	Structure	Used product (plate/stiffener)	Apparent density (kg/m³)	Insulation thickness (mm)		Sound reduction RI,M,w (C; Ctr) (dB)
				Plate	Stiffener	
A-30	Deck	Sea-teK BD 100	100	30	30	47 (-1; -4)
A-30	Deck	Sea-teK BD 100 / Sea-teK WM 100 GGN	100	30	30	47 (-1; -5)
A-30	Bulkhead	Sea-teK BD 100	100	50	30	49 (-1; -5)
A-30	Bulkhead	Sea-teK BD 100 / Sea-teK WM 100 GGN	100	50	30	50 (-1; -6)
A-60	Deck	Sea-teK BD 100	100	50	30	49 (-1; -5)
A-60	Deck	Sea-teK WM 100 GGN	100	50	50	49 (-2; -6)
A-60	Deck	Sea-teK BD 100 / Sea-teK WM 100 GGN	100	50	50	50 (-2; -6)
A-60	Bulkhead	Sea-teK BD 100	100	75	30	50 (-2; -7)
A-60	Bulkhead	Sea-teK WM 100 GGN	100	80	30	50 (-3; -8)
A-60	Bulkhead	Sea-teK BD 100 / Sea-teK WM 100 GGN	100	75	30	52 (-2; -7)

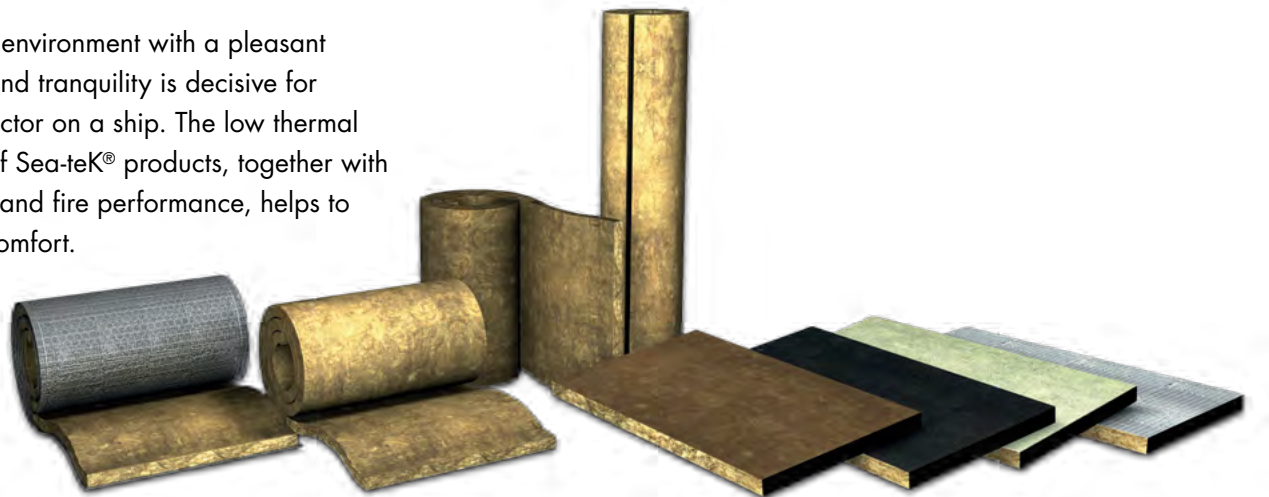
## OUTFITTING INSULATION

Insulation materials used in prefabricated products such as corridor and cabin panels, wet units, fire doors, ceilings and others, need to fulfill high acoustic as well as fire requirements. We are working together with our customers in developing and designing specialized and tailored solutions for their products. Sea-teK® Boards are available with variety of facings which can be applied either on one or both sides of the product.



## THERMAL INSULATION

Delivering an environment with a pleasant temperature and tranquility is decisive for the comfort factor on a ship. The low thermal conductivity of Sea-teK® products, together with their acoustic and fire performance, helps to achieve this comfort.



Sea-teK® Boards are available with different facing alternatives like aluminum foil and white or black glass veil. Sea-teK® wired mats and felt mats are available with aluminum facing.

### TECHNICAL DATA

Product name	Apparent density (kg/m³)	Thermal conductivity (W/m•K)	
		10 °C	40 °C
Sea-teK BD 035	35	0,039	0,043
Sea-teK BD 040	40	0,037	0,041
Sea-teK BD 050	50	0,035	0,038
Sea-teK BD 060	60	0,035	0,038
Sea-teK BD 080	80	0,034	0,038
Sea-teK WM 070	70	0,035	0,038
Sea-teK WM 080	80	0,035	0,038
Sea-teK FM 070	70	0,035	0,038
Sea-teK FM 080	80	0,035	0,038
RL Eco ALU	25	0,034	0,043

## TECHNICAL EQUIPMENT INSULATION

Ship's technical equipment such as tanks, piping and ducts must be able to withstand various conditions such as high temperature or humidity. Proper selection of technical insulation, reduces the potential for heat loss and contributes to energy savings on heating and air conditioning.

### TECHNICAL DATA

Product name	Apparent density (kg/m³)	Maximal service temperature (°C)	Thermal conductivity (W/m•K)	
			10 °C	50 °C
Sea-teK BD 100	100	660	0,035	0,039
Sea-teK WM 100	100	660	0,035	0,040
Sea-teK FM 100	100	660	0,035	0,040
LM Eco ALU	35	250	0,037	0,044
PS Eco ALU	80–100	250	0,033	0,039
PS Pro ALU	ca. 105	500	0,033	0,037

**Knauf Insulation Mineral Wool products with ECOSE® Technology**

benefit from a no added formaldehyde binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals. Use of products with ECOSE® Technology ensures a healthy room climate,

which is supported by the award of "Eurofins Indoor Air Comfort GOLD certificate".





Our products save energy, cut emissions and are designed to make sure buildings and applications are good for the environment and keep people healthy, safe and well. Across our company, we have been working on sustainability for over a decade. We have focused on zero harm, reducing our energy use and emissions, recycling our production waste, incorporating circular economy principles and constantly campaigning for better and more sustainable buildings and applications. Over the past decade, we have achieved great things and we are proud of how we have changed our company, helped our colleagues, communities and customers and reduced our impact on the environment. But sustainability is a process of continuous improvement. We must do more for our people and our environment. That's why we've created our new sustainability strategy. We call the new strategy **'For A Better World'** because it builds on the success of our mission statement: "Our vision is to lead the change in smarter insulation solutions for a better world."



## LIVING WITH A GREEN HEART

### LIVING WITH A GREEN HEART

The "Living with a Green Heart" initiative promotes a comprehensive approach to sustainable development with

**emphasis on societal and social sustainable development**, placing an informed individual at the forefront of sustainable transformation of society. "Living with a Green Heart" presents a unique story and approach that encourages companies, organisations, and individuals to:

- ✓ Create sustainable products and solutions which can transform grey cities into green oasis, build safe and comfortable homes and lead to a better world for all of us.
- ✓ Lead social sustainability actions, cocreating a more informed and kinder future for ourselves and those that come after us.
- ✓ Build a friendlier and more responsible environment for employees at all levels and in all aspects, appreciating the diversity and improving our relationships, as well as the way we work, collaborate, and coexist within our environments.

## CONTACTS

### Knauf Insulation d.o.o.

Varaždinska 140  
42220 Novi Marof  
ts@knaufinsulation.com  
[www.knaufinsulation-ts.com/](http://www.knaufinsulation-ts.com/)

Browse country  
specific contacts:



FOR FURTHER INFORMATION VISIT  
OUR WEBSITE [WWW.KNAUFINSULATION-TS.COM/](http://WWW.KNAUFINSULATION-TS.COM/)



Premium member of



### COMPANY PROFILE

Knauf Insulation is one of the most respected names in the insulation industry worldwide with over 40 years of experience and still growing fast. Over 6.000 employees in more than 40 countries and 29 manufacturing sites. Being part of the family-owned Knauf group, Knauf Insulation Technical Solutions provides solutions for customers' requirements in industry, marine applications, heating, ventilation and air conditioning. A profound market understanding and insulation know-how enables us to provide a broad range of products to meet your specific needs.

All rights reserved, including rights for processing and conversion, photomechanical reproduction and storage on electronic media. Commercial use of the processes and procedures presented in this document is not permitted. All the technical data in this document has been provided in good faith. It must be adapted to meet the specific situation on the construction site. Always make sure that you use the latest version of this information. The designer and the construction contractor are responsible for correct installation and compliance with the building regulations. Despite taking all due care and caution, the operator of the website accepts no liability for the currentness, correctness, completeness or quality of the information provided or for its being up-to-date. In addition, the relevant standards and recognised rules of technology apply. Knauf Insulation would be grateful for any suggestions for improvements or information about any possible errors.

challenge.  
create.  
care.