

SAINT-GOBAIN MARINE

A full range of sustainable shipbuilding solutions

Technical Insulation, Flooring, Glass,
Interior Outfitting and more ...



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RAISING THE STANDARD AT SEA

ABOUT SAINT-GOBAIN MARINE

More than ever, sustainable shipbuilding is at the heart of everything we do. Weight and energy efficiency drive our sustainable approach, yet never at the expense of comfort or safety.

Saint-Gobain Marine brings together leading international brands to help build tomorrow's vessels. With years of expertise, we provide comprehensive solutions for passenger ships, navy vessels, and offshore installations. By joining forces, we offer a wide range of sustainable shipbuilding materials and develop complete solutions for ship owners, naval architects, shipyards and contractors.

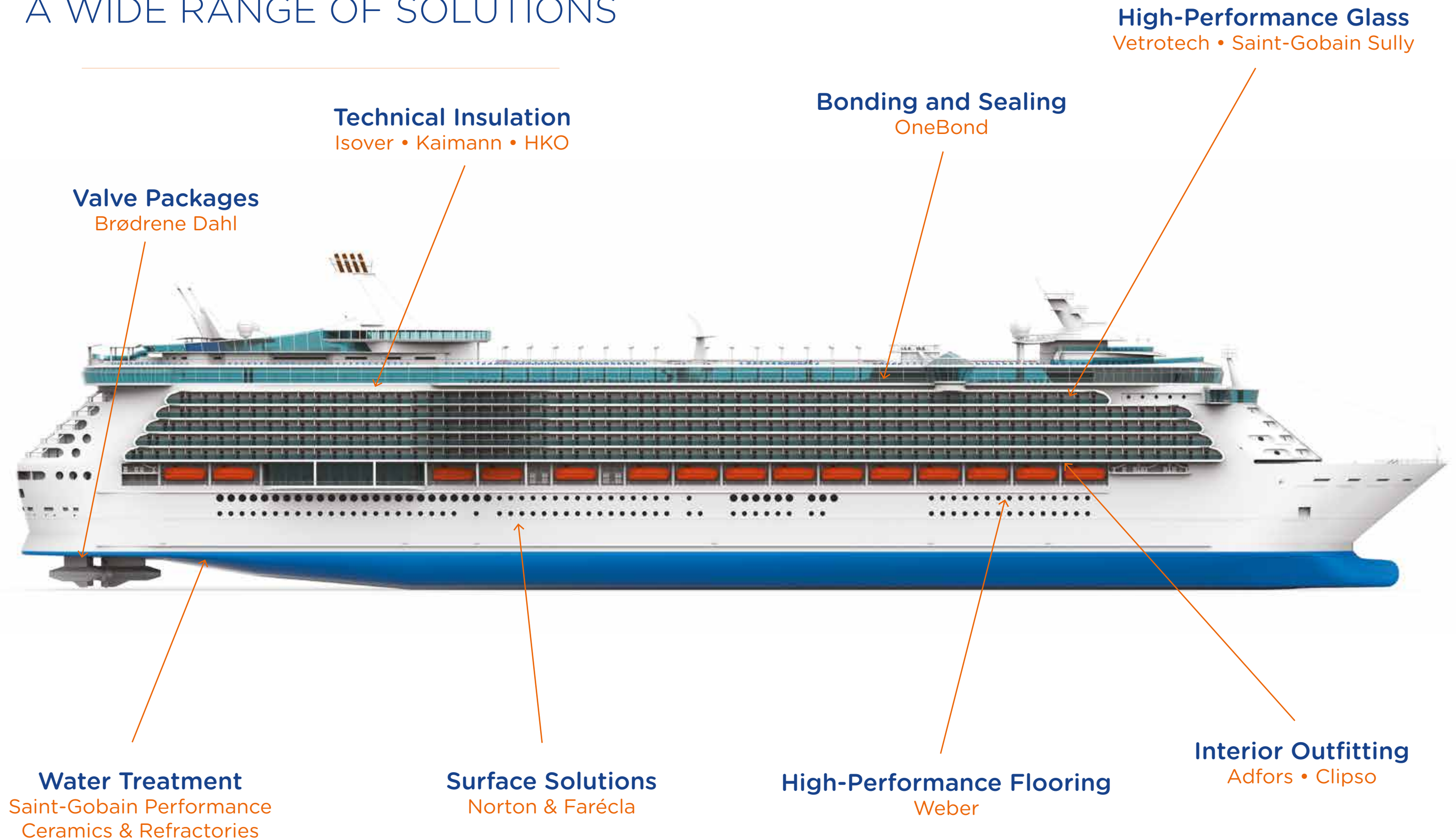
- **A complete certified offer:** All our solutions are tested and approved for IMO/ SOLAS compliance, and are engineered to deliver energy efficiency, long-term durability, and optimal passenger comfort.
- **Global presence, local support:** Our worldwide footprint ensures expert support wherever your marine projects are located—combining the strength of international expertise with the agility of local service.
- **Expert support and technical assistance:** We provide dedicated support throughout the specification and construction process, tailored to the unique demands of marine environments.

**Because together we can build tomorrow's vessels.
Together we can raise the standard at sea.**

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more online



FROM HULL TO INTERIOR: A WIDE RANGE OF SOLUTIONS



TECHNICAL INSULATION

**Improve onboard safety and comfort
while optimising energy efficiency**

Our comprehensive range of technical insulation solutions helps manage condensation, optimise energy efficiency, and drive sustainability goals across multiple marine applications.

From structural fire protection to thermo-acoustic comfort, our innovations address the complex challenges of marine environments while delivering measurable benefits in weight reduction and performance.



STRUCTURAL INSULATION AND FIRE SAFETY



Light stone wool | Isover



UP TO 45% LIGHTER
THAN TRADITIONAL
STONE WOOL

The **U SeaProtect®** range offers a comprehensive selection of **fire-rated insulation solutions for decks, bulkheads, and floating floors**, achieving up to A-60 classification for both steel and aluminium divisions.

When space is limited, **U SeaProtect®** offers thin solutions while ensuring performance and complying with safety standards.

All facings are classified as **low flame spread and tested according to FTP Code 2010**, ensuring full compliance with marine safety regulations.

A wide choice of product forms, densities, facings and thicknesses to address your needs, whether for fire protection or thermo-acoustic comfort.

PRODUCT RANGE	PRODUCT FORM	DENSITY (KG/M³)	FACING	THICKNESS (MM)
U SeaProtect®	Roll	24	Unfaced	20
		36	Alu1: Aluminium	25
	Slab	56	G120: Glass Cloth (Black)	30
		76	G220: Glass Cloth (White)	40
	Wired mat	86	G420: Glass Cloth (White)	50
		90	B-AL: B-Facing (Alu facing outside)	70
	Crimped slab	...	B-GL: B-Facing (Glass Cloth outside)	100
				...

B-15 wall extensions | Isover



CONVENIENT AND
FAST INSTALLATION

With just two products from the **U SeaProtect®** range, it is possible to build B-15 wall extensions. **Compatible with standard accessories**, this solution offers **convenient and quick installation** and streamlines the construction process without compromising on safety or performance.

FIRE CLASS	EXTENSIONS		PENETRATIONS		
	PRODUCT	THICKNESS (MM)	PRODUCT	THICKNESS (MM)	TYPE
B-15	U SeaProtect®66	50	U SeaProtect®46	30	Pipes, ducts, cable trays, composite...

THERMO-ACOUSTIC COMFORT



Beyond fire protection, U SeaProtect® offers excellent thermal and acoustic performance, all in a lightweight solution. This multi-performance approach illustrates our “higher performance, same weight - or same performance, less weight” philosophy.

Thermal insulation

U SeaProtect® plays a critical role in minimising heat transfer within and from the vessel’s structure, ensuring energy efficiency and passenger comfort throughout the vessel’s operational life.

Every vessel has unique insulation needs. The right thermal solution depends on factors such as operating conditions (from polar waters to tropical zones), material conductivity and insulation thickness. To ensure comfort, safety, and energy efficiency, **our experts are here to help you define and dimension the most suitable solution for your application.**

	THERMAL CONDUCTIVITY AT 10°C	THERMAL TRANSMITTANCE FOR 100 MM
Stone Wool 45 Kg/m³	0.034 W/m.K	0.033 W/m².K
U SeaProtect 24 Kg/m³	0.034 W/m.K	0.033 W/m².K

When compared to conventional stone wool at 45 kg/m³, U SeaProtect® at just 24 kg/m³ is **45% lighter while offering thermal conductivity**. This example demonstrates that U SeaProtect® can meet the same thermal performance requirements while significantly reducing both density and weight.

This improved performance-to-weight ratio translates directly into operational benefits, reducing energy consumption for heating and cooling while contributing to overall vessel efficiency.

Even lighter solutions are available through glass wool products such as Isover Glasswool GW SeaComfort solutions.

Acoustic Insulation

As illustrated in the following table, our U SeaProtect® solutions offer similar sound reduction values (Rw) while significantly reducing weight **by up to 47%** compared to conventional alternatives.

	PLATE			STIFFENER			SOUND REDUCTION
	DENSITY (KG/M³)	THICKNESS (MM)	WEIGHT (KG/M²)	DENSITY (KG/M³)	THICKNESS (MM)	WEIGHT (KG/M²)	
stone wool - 45/50 - 45/25	45	50	2,25	45	25	1,13	46(-1;-5)
U SeaProtect® - 24/50 - 76/20	24	50	1,2	76	20	1,52	46(-1;-5)



PIPE INSULATION



Warm water pipe insulation | Isover



To **minimise heat loss from water pipes**, we offer **U SeaProtect® Pipe Section Alu2**, lightweight and **simple-to-install solutions** fabricated from Ultimate® mineral wool. These products maintain optimal water temperatures throughout distribution systems, reducing energy consumption and enhancing comfort.

U SeaProtect® Pipe Section provide reliable thermal insulation across a wide temperature range, **from ambient conditions up to 620°C (MST)**. When used alongside aluminium vapour barriers, they deliver consistent performance in chilled water systems, **preventing energy loss and maintaining efficiency**, even in low-temperature applications.

Cold water pipe insulation | Kaimann



For cold pipes, Kaiflex ST S2 ensures reliable insulation across a **temperature range from -50 °C to +110 °C**. Its closed-cell flexible elastomeric foam **prevents condensation and corrosion** under insulation, making it particularly suitable for complex geometries. Classified as building material BL-s2, d0, it also offers protection against microorganisms and mould, securing long-term performance in demanding marine environments.



For living quarters and spaces with stringent safety requirements, **Kaiflex HF PLUS S2** provides a **halogen-free** option that's free of PVC, chlorides, and brominated flame retardants. While preventing condensation and protecting from corrosion, this solution also **reduces smoke production**, ensuring better visibility for safe evacuation in emergency situations.

TECHNICAL EQUIPMENT



Isover and HKO bring together complementary insulation solutions for technical equipment. From stone wool to advanced technical textiles, they ensure reliable performance in high-temperature applications, whether to "keep heat away" or "keep it inside".

High-temperature insulation | Isover



U SeaProtect® insulation is designed for marine technical equipment exposed to high temperatures. By limiting heat loss and ensuring stable temperatures for technical equipment, it **improves overall process efficiency and lowers operating costs**.

At the same time, it ensures a safer environment in high-temperature engine rooms by **protecting crews** from burns and other thermal risks during operations or maintenance.

Insulation fabrics & needle mats | HKO

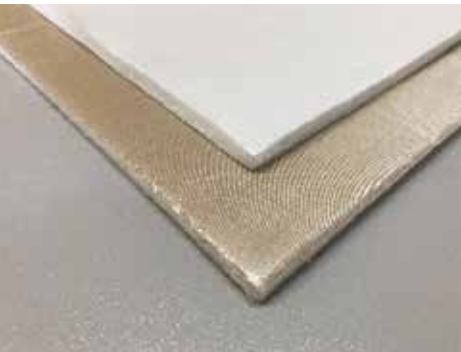


HKO's needle felts, made of E-glass, ECR- or Silica-fibres, deliver reliable thermal protection and safety in the toughest marine conditions. Designed for complex areas where space, accessibility, and maintenance are critical, they are, per exemple, perfectly suited for **removable insulation pillows** on exhaust **pipe expansion bellows**. Integrated within a complete mattress system, they provide easy **handling, multiple reuse, strong resistance to oil and leaks**, and can also be supplied with **aluminium foil lamination** for enhanced performance.

HVAC SYSTEM INSULATION



Battery fire protection | HKO



For electric propulsion systems, **DEFENSOR-Flex®** multilayer solutions offer **advanced battery fire containment technology**. This innovation brings HKO's automotive expertise to marine applications, ensuring safety for energy storage systems onboard.

Welding protection fabrics | HKO



The **Weld Guard Ocean Blue** range provides superior protection during heavy welding operations at shipyards. These impregnated or coated fabrics offer exceptional **resilience to molten metal splashes** while meeting marine regulations and REACH compliance.

Self-supporting duct system | Isover

UP TO 65% LIGHTER THAN INSULATED METAL DUCTS



SEA CLIMAVER® is a revolution in marine HVAC systems: a high-performance, sustainable **self-supporting duct system** that's up to **65% lighter than insulated metal ducts**. Made of ultra-rigid glass wool boards, it offers **excellent thermal conductivity (0.032 W/m·K)**, **best-in-class airtightness**, and **limits thermal bridges**, while providing **high sound absorption ($\alpha_w = 0.85$)**.

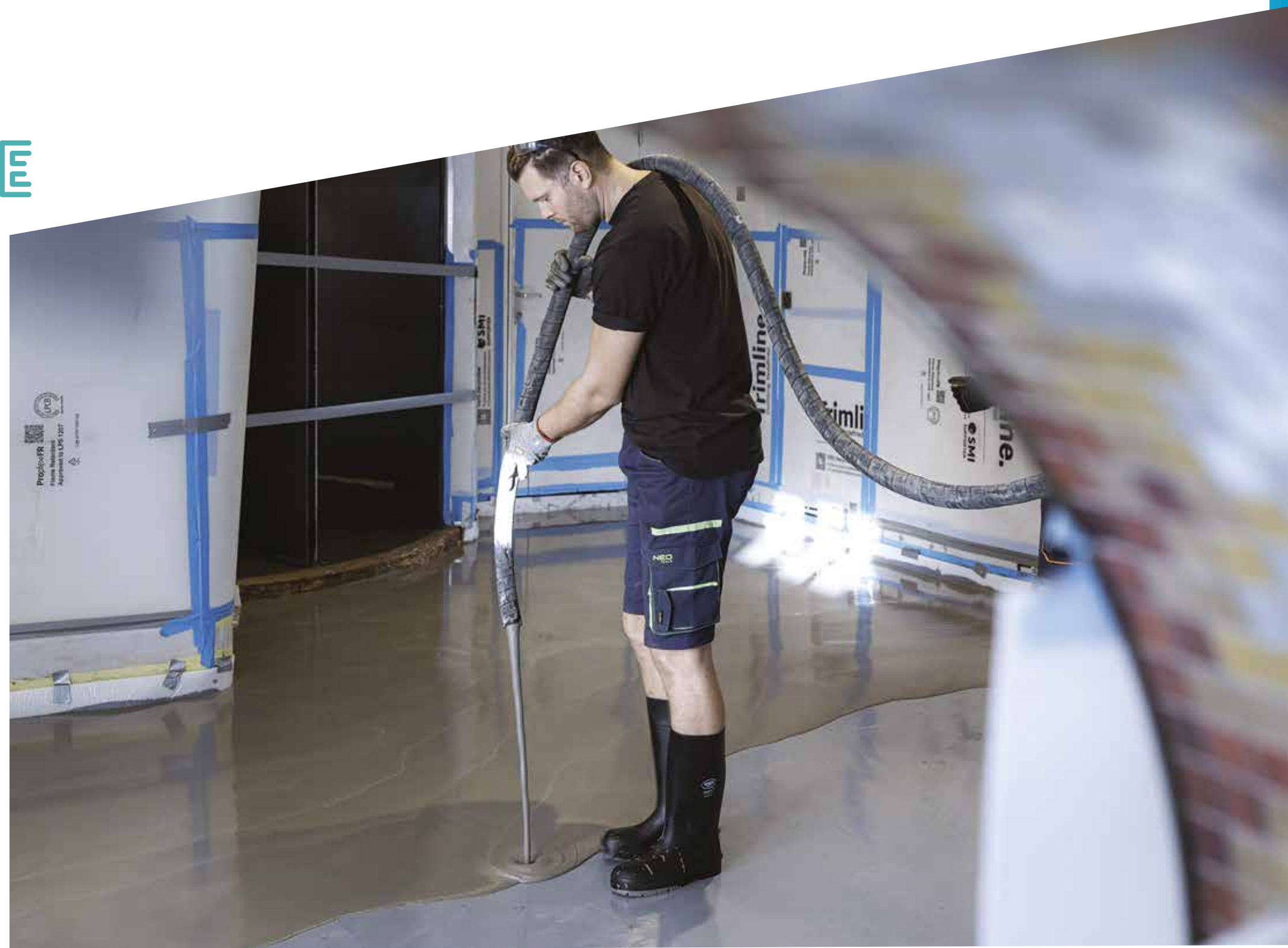
Made from **up to 75% recycled glass wool**, **SEA CLIMAVER®** illustrates our commitment to circularity and resource efficiency. The system's light weight, superior thermal and acoustic performance, and simplified installation make it an ideal choice for marine HVAC applications where space, weight, and energy efficiency are paramount considerations.



HIGH PERFORMANCE FLOORING

Optimise onboard safety and comfort with innovative deck coverings

Our high-performance flooring solutions offer fast installation, superior durability, comfort, and enhanced sustainability across a range of marine flooring applications. From flexible deck covering systems to sound-dampening solutions, we address the unique challenges of marine environments.



DECK COVERING



Self-levelling & Mortar Screeds | Weber



UP TO 68%
WEIGHT SAVINGS

Our **flexible, durable, fast-curing** screed systems are designed for efficient levelling of decks before floor covering installation. The pumpable self-levelling formulation enables **application rates of up to 300 m²/hour**, dramatically accelerating project timelines compared to traditional methods. **With foot traffic possible in just 1-3 hours and floor covering installation within 1-3 days**, these systems minimise disruption while maximising productivity.

What's more, our deck covering systems significantly **reduce noise and vibration**, for a smoother onboard experience throughout the vessel's operational life. High strength and flexibility **ensure long-lasting performance** even under the demanding conditions of marine environments, while our lightweight formulation delivers **up to 68% weight savings** compared to conventional alternatives.

To meet a wide range of onboard requirements, Weber offers a complete portfolio of IMO-certified marine floor screeds tailored to specific performance needs in terms of flexibility, strength, and weight reduction.

SOLUTION	DESCRIPTION	WEIGHT/ DENSITY (kg/mm/m²)	WEIGHT SAVING VS STANDARD LEVELLING SCREED (4660N)	THICKNESS PER LAYER	COMPRESSIVE STRENGHT (MPA)	FLEXURAL STRENGHT (MPA)
weberfloor 4660N Marine Elastic	Self-levelling	1,7	-	4-50 mm	33 N/mm²	9,5 N/mm²
weberfloor 4680N Marine Light	Self-levelling	0,9	-47%	5-20 mm	21 N/mm²	4,5 N/mm²
weberfloor 4686N Marine Extra Light	Self-levelling	0,65	-62%	Up to 32 mm	12 N/mm²	3,2 N/mm²
weberfloor 4685N Marine Ultra Light	Mortar	0,55	-68%	Up to 32 mm	11 N/mm²	3,4 N/mm²
weberfloor 4670N Marine Base	Mortar	1,8	6%	10-150 mm	35 N/mm²	6,5 N/mm²
weberfloor 4690N Marine Combi	Feather edge screed	1,55	-9%	0,5-50 mm	34 N/mm²	9 N/mm²

RESIN COATINGS



Epoxy & polyurethane solutions | Weber



EXCEPTIONAL DURABILITY
AND PERFORMANCE

For areas requiring **exceptional durability and performance**, our epoxy and polyurethane coatings provide safe, chemical-resistant surfaces designed for **long-term usage and easy maintenance**. Their high mechanical strength enables them to **withstand impact and heavy loads in high-traffic areas**, while their flexible, **crack-resistant formulation absorbs vibrations**.

These advanced coatings also provide significant reduced building height and weight savings compared to ceramic tile flooring—**approximately 15-20 kg/m² in weight reduction and 10mm less height**. While 10mm might seem modest, every millimetre counts in shipbuilding where space optimisation is critical and vessel designers routinely struggle with limited building space.

Ideal for demanding areas **such as engine rooms, galleys, and wet zones**, their seamless, easy-to-clean finish makes them perfect for **hygiene-sensitive spaces**.

Our range of IMO-certified marine coatings offers versatile solutions for both indoor and outdoor applications, ensuring durability, safety, and easy maintenance.

SOLUTION	THICKNESS (MM)	WEIGHT (kg/m²)	INDOOR	OUTDOOR	ANTI-SKID
Weber Marine Universal Coating	≈ 2,5 mm	≈ 3,7 kg	Yes	No	No
Weber Marine Marine Flake Coating	≈ 2,5 mm	≈ 3,8 kg	Yes	No	R9 - R10
Weber Marine Coloured Sand Coating	≈ 3 mm	≈ 5,5 kg	Yes	Yes	R10 - R11
Weber Marine PU Flex Anti-slip Coating	≈ 3 mm	≈ 5,0 kg	Yes	Yes	R10-R12

ACOUSTIC FLOORING SOLUTIONS

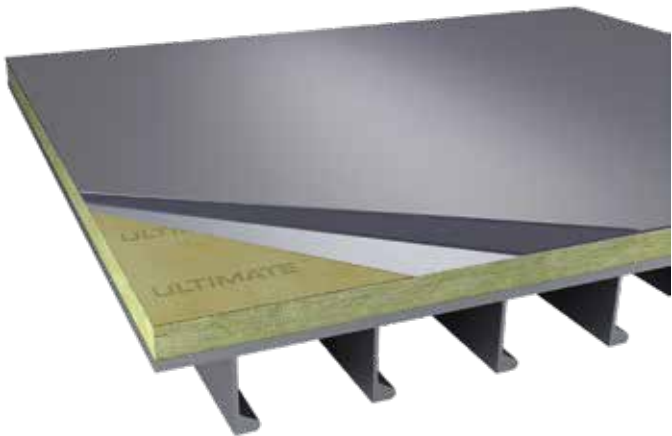


High-performance sound dampening and floating floors for ships and oil platforms, reducing noise and vibration, and offering A-60 fire insulation where needed.

Traditional floating floor with steel plates

U SeaProtect® Floating Floor Systems | Isover

THREE OPTIMISED DESIGNS



Whether for passenger areas, technical rooms, or high-traffic zones, floating floors play a critical role in reducing noise and vibrations, ensuring fire safety, and supporting long-term operational performance.

The **U SeaProtect® Floating Floor System** has been developed to answer these challenges with a **single, modular product** that adapts to your priorities. Designed for installation on steel decks, the system combines high-performance mineral wool insulation with steel plates and a visco-elastic damping layer to deliver reliable acoustic, fire, and mechanical performance.

U SeaProtect® provides **three optimised designs**, allowing you to select the right level of performance based on your project needs:

Acoustic floor:
For areas where **acoustic comfort is the main driver**, such as cabins, lounges, offices, or public spaces, **U SeaProtect® Slab 90 mineral wool** delivers excellent sound insulation performance, with airborne sound insulation reaching up to **61 dB** depending on configuration. This design significantly improves onboard comfort by limiting noise transmission between decks and adjacent spaces.

A-60 fire-resistant floor:
When fire safety requirements come first, the fire-resistant floor delivers certified protection without compromising overall performance. This design integrates **U SeaProtect® Slab 110 mineral wool**, enabling the system to achieve **A-60 fire classification**, in line with strict marine safety regulations. This solution is ideal for use in engine rooms and control rooms, above and below machinery spaces, as well as accommodation spaces.

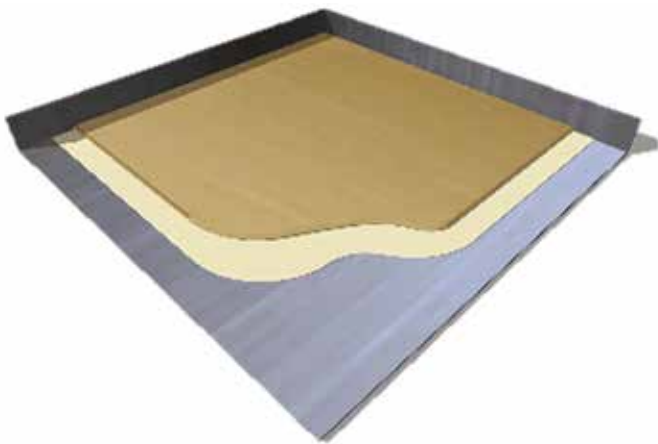
A-60 Heavy-Duty floor:
Designed for demanding onboard areas exposed to high loads and frequent traffic, the Heavy-Duty floor delivers long-term durability. With **U SeaProtect® CR-H Slab 110 mineral wool**, featuring **crimped fiber orientation that significantly increases compressive strength (45 kPa) thus mechanical resistance of the system**, it withstands repeated loads while maintaining A-60 fire resistance. Ideal for technical rooms, service corridors, and high-traffic areas, it ensures reliable performance with minimal maintenance over time.

	Feature	Acoustic Floor for quieter environments	A-60 Fire Resistant Flooring	A-60 & Heavy-Duty Performance Floor
SYSTEM CHARACTERISTICS * value obtained from modelisation based on 50 mm insulation thickness	Insulation	U SeaProtect® Slab 90	U SeaProtect® Slab 110	U SeaProtect® CR-H Slab 110
	Insulation thickness	50 mm (other thicknesses possible)	minimum 50 mm	minimum 50 mm
	Top layer	3 +2 mm steel plate with visco-elastic layer type «WEBER MARINE VEM PU-1»		
	Fire Class	A-0	A-60	A-60
	Final thickness	56 mm (other thickness possible)	min. 56 mm	min. 56 mm
	System weight	45 kg/m²	46 kg/m²	46 kg/m²
	Airborne sound insulation, Rw in dB	61	58	51
	Impact sound level Ln,w in dB	67	69	74
INSULATION PARAMETERS	Insulation Density	90 kg/m³	110 kg/m³	110 kg/m³
	Insulation Fiber orientation	Laminar	Laminar	Crimped
	Thermal conductivity at 10°C	31 mW/(m.K)	31 mW/(m.K)	37 mW/(m.K)
	Compressive strength (acc. EN826)	5 kPa	9 kPa	45 kPa
	Dynamic stiffness	4 MN/m³	5 MN/m³	12 MN/m³

Innovative floating floor with cement based levelling

Sound dampening solutions | Weber

MINIMISING NOISE TRANSMISSION



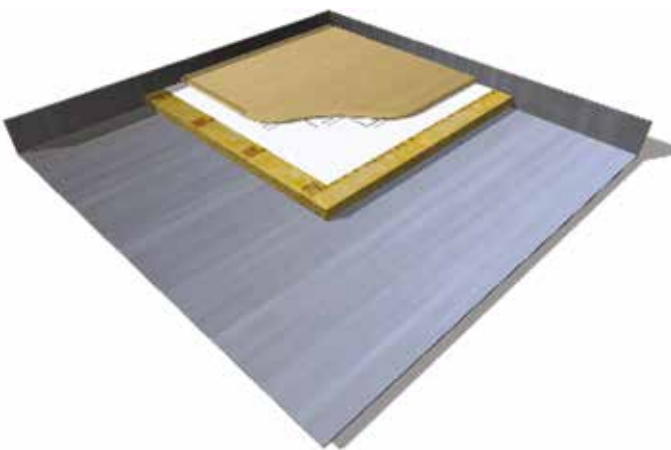
Our marine acoustic solutions, composed of weberfloor 4660N Marine Elastic and Weber Marine VEM PU-1, build on Weber's long-standing expertise to deliver high-performance sound insulation tailored for ships and offshore installations.

Designed to reduce **airborne, impact, and structure-borne noise**, this system significantly limits sound transmission between compartments, creating a **quieter onboard environment** and enhancing comfort for both passengers and crew.

The solution is based on a **sandwich construction** combining the **steel deck**, a **viscoelastic layer**, and a **fibre-reinforced cement-based levelling layer or steel tiles/plates**. This configuration effectively **dampens vibrations in the steel structure**, preventing their propagation and ensuring durable acoustic performance in demanding marine conditions.

A-60 floating floors | Weber & Isover

WEIGHT SAVINGS OF 26%



Weber Marine A-60 Floor N Light is an innovative floating floor solution that redefines A-60 deck construction by **eliminating the need for steel plates** while fully maintaining A-60 fire performance.

Combining Isover **U SeaProtect® Slab 90** insulation with **weberfloor 4660N Marine Elastic**, the system delivers **effective noise and vibration insulation**, significantly improving onboard comfort. Despite its lightweight design, it **supports wheel rolling loads of up to 2,200 kg**, meeting the operational demands of marine environments.

With a total **thickness of minimum 45 mm**, **Weber Marine A-60 Floor N Light** enables compact deck designs and contributes to faster installation. Compared to conventional steel plate systems, **installation time can be reduced by up to 50%**.

Compared to traditional floating floors, **Weber Marine A-60 Floor N Light** delivers impressive **weight savings of approximately 17 kg/m² (26%)**, equivalent to 17,000 kg saved per 1,000 m² of deck area. These savings directly contribute to improved vessel efficiency, offering shipowners and naval architects a high-performance, time-saving, and weight-optimised A-60 flooring solution.

The table below compares the Weber Marine A-60 Floor N Light with a traditional A-60 floating floor solution, illustrating its lighter design and improved acoustic performance while maintaining the same fire protection level.

SOLUTION	THICKNESS (MM)	WEIGHT (kg/m²)	SOUND REDUCTION
Traditional A-60 floating floor solution (50mm stone wool 140kg/m³ + 3+2 mm steel plates + 1 mm visco elastic + 10 mm levelling)	66	≈ 65	≈ 51 Rw
Weber Marine A-60 Floor N Light (30mm Isover U SeaProtect® Slab 90 +Woven glass fabric + 25 mm weberfloor 4660N Marine Elastic)	55	≈ 48	≈ 57 Rw

HIGH PERFORMANCE GLASS

Enhance onboard safety and comfort

Our Vetrotech and Sully brands offer advanced glazing solutions with fire-rated, heated glass, pressure resistance, blast resistance, and EMI functionalities. These specialised products address the complex requirements of marine environments while delivering high performance in safety, comfort, and sustainability.

vetrotech
SAINT-GOBAIN


SAINT-GOBAIN



GLAZING SOLUTIONS FOR COMMERCIAL VESSELS



Fire-rated glass | Vetrotech



Designed for applications ranging from internal and external divisions to restaurants, lobbies, lifeboat areas, emergency corridors, and exits, **Contraflam** delivers critical fire protection from B-0 to A-60, with H-120 even being possible depending on the configuration. This thermically toughened safety glass features a **transparent intumescent silicate-based interlayer** that reacts when exposed to fire, maintaining the **integrity of the glass and insulation of the area for up to one hour**.

Heatable glass | Vetrotech



Designed primarily for wheelhouses and areas requiring enhanced visual and thermal comfort, **THERMOVIT electrically heated laminated glass** uses almost invisible conductive wires to maintain **clear and undistorted vision** in cold and humid weather conditions.

With **heating capacities ranging from 3-30 W/dm² and available in sizes up to 2600 x 5500 mm**, this solution can be configured with power supplies varying from 12V-440V DC and 12V-110V AC to suit diverse installation requirements, and to maintain comfortable interior temperatures.

With Oraé® low-carbon glass, Vetrotech reduces the embodied carbon of glazed areas by up to 42%, with only 6.64 kg CO₂ eq./m² (4 mm glass). This verified EPD solution supports decarbonisation while preserving thermal comfort, light transmission, and full compatibility with marine safety, acoustic, and fire-rated glazing systems.

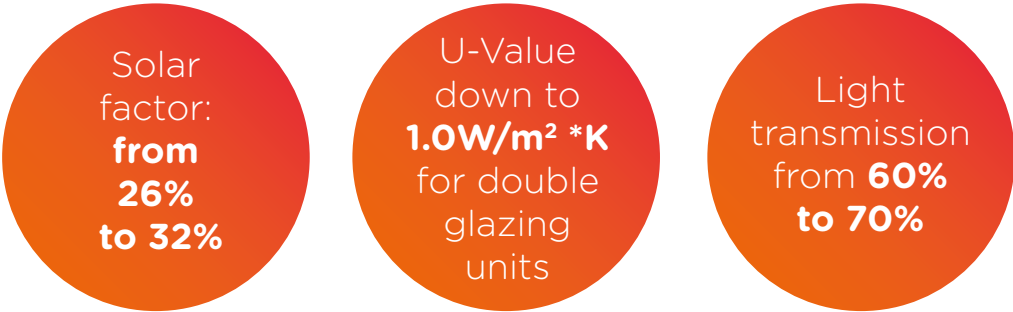
Pressure resistant glass | Vetrotech



Marine glass windows must withstand extreme weather and pressure conditions whilst maintaining safety and visibility. Our pressure-resistant glass solutions combine high-tempered safety glass with our STADIP laminated glazing technology to create a robust barrier against hostile waves and catastrophic events.

The innovative **STADIP MARINE** offers up to 35% weight reduction compared to traditional monolithic glass, without compromising strength or performance at sea.

Our high-performance coating range is available across our entire glass portfolio ensuring excellent thermal performance values:



All our solutions are fully combinable within double or triple glazing, enabling the integration of fire protection, thermal and acoustic insulation, and weight reduction for safe and more efficient vessels.

GLAZING SOLUTIONS FOR NAVY VESSELS



EMI protection | Saint-Gobain Sully



REDUCING
ELECTROMAGNETIC
WAVES BY 99%

For specialised applications such as navy ship bridges and command rooms, Saint-Gobain Sully offers **EMI protection glass** with layer deposits applied under vacuum conditions, **reducing electromagnetic waves by 99%**. This metallic coating can be adapted to specific requirements, providing essential protection for ship electronics while **ensuring confidentiality** of sensitive operations.

The excellent visibility with no distortion makes this glass ideal for critical areas where both electromagnetic security and clear vision are essential.

Bullet & blast resistant glass | Saint-Gobain Sully



Saint-Gobain Sully's chemically toughened glass undergoes controlled chemical reinforcement in a soda bath, resulting in mechanical properties that **exceed twice the resistance of tempered glass while maintaining optimal optical properties with no distortion.**

Available as **complete window systems** including frame, glass, wipers, and control systems, these integrated solutions simplify installation while ensuring comprehensive protection for navy and defence vessels.

INTERIOR OUTFITTING

Solutions for linings & ceilings

Inspired by land-based construction applications, we have more recently adapted several interior design solutions to maritime projects, offering interesting advantages in terms of decoration and aesthetics, ease of installation and durability.



WALLS



Glassfibre wallcovering | Adfors



Designed for demanding marine interiors, **ADFORS Novelio® Fusion** wallcoverings combine refined aesthetics with outstanding durability, offering a sustainable alternative to traditional HPL or PVC foils.

Available in a range of patterns and colours, **Novelio® Fusion** is made from painted fibreglass and can be **supplied on prefabricated sandwich panels for a ready-to-install solutions**. It can also **be applied directly on site**, eliminating painting, shortening installation time, and avoiding delays linked to drying or finishing. Its high opacity and pre-coated protective colour finish ensure **a seamless coverage**, even on uneven surfaces or visible joints, ideal for cabins, corridors, and public areas, in both newbuilds and refurbishments.

Highly resistant to impact and abrasion, **Novelio® Fusion** delivers long-lasting performance for **up to 25 years**, even in high-traffic areas. Its breathable structure supports healthier indoor air quality by **limiting mould and bacteria growth**, while maintaining very low VOC emissions (A+ certification).



CEILINGS



Innovative stretched fabrics | Clipso

WEIGHING JUST 250 G/M²



Clipso's polyester knitted stretched fabrics, coated with PU, provide **acoustic and decorative solutions** for ceilings and walls. **Weighing just 250 g/m²**, these lightweight materials contribute to overall vessel efficiency while offering custom finishes in **various colours, prints, and backlit options**. All standard, acoustic, and translucent versions are IMO certified for marine compliance.

Their **high resistance to torsion and traction** ensures durability in marine environments, while bendable profiles allow for creative curved designs that enhance interior aesthetics.

This clean, **efficient installation, generating minimal waste**, is ideal for both new build and refurbishment. The quick measurement and installation system significantly reduces project timelines while delivering superior acoustic and visual results.



OTHER APPLICATIONS

Durable solutions from structure to surface

Saint-Gobain brings together the expertise of Brødrene Dahl, Norton, and Onebond to offer a comprehensive approach to marine construction and maintenance.

From the hull to interior systems, we support shipbuilders and operators with reliable, high-performance solutions that ensure long-term durability and operational efficiency.



VALVE PACKAGES



YOUR TOTAL SUPPLIER FOR THE MARINE SECTOR

Brødrene Dahl is a trusted partner for shipyards and shipowners across the globe. With more than a century of experience in Norway and a long-standing history of international deliveries, the company offers a full-service approach that simplifies even the most complex marine projects, whether for new builds or retrofits.

Their **extensive portfolio includes over 27,000 stocked products** tailored specifically for maritime applications. This range covers pipes, fittings, and flanges in various materials, along with a broad selection of valves—both manual and remote-operated. They also supply actuators in pneumatic, hydraulic, and electric formats, as well as advanced control systems, many of which are available with class certification.

Beyond technical components, Brødrene Dahl provides PHS materials for accommodation areas, including basins, faucets, showers, and toilets. For more integrated solutions, they offer quick-closing systems, pressure and safety valves, and control cabinets.

What truly distinguishes Brødrene Dahl is their **ability to deliver precise technical guidance, class-certified materials, and fully tagged components for easy identification and traceability on site.** Their services include commissioning, on-site support, emergency control solutions, and tailored valve calibration—ensuring smooth integration from warehouse to vessel.

With a centrally located warehouse operating at over 90% automation and more than 50 local outlets, Brødrene Dahl ensures **just-in-time and overnight delivery** in many regions. All shipments are clearly labeled with yard name, hull number, and system details, and global delivery is secured through reliable logistics partners. Backed by decades of experience in marine project execution and a reputation for availability, reliability, and technical expertise, Brødrene Dahl is your one-stop partner—bringing confidence and continuity to your vessel's supply chain.

BONDING AND SEALING



OneBond offers professional-grade bonding and sealing solutions specifically developed for structural, decking, and demanding marine applications, ensuring reliability, safety, and long-lasting performance on board.

ONEBOND M960 DECK BONDING

EXCELLENT MECHANICAL PERFORMANCE



ONEBOND M960 DECK BONDING is a high-modulus, single-component hybrid adhesive formulated for **bonding teak flooring** to a wide range of substrates including aluminium, steel, and composites. It ensures **excellent mechanical performance, remains permanently elastic, enhances acoustic insulation**, and can be sanded and painted once cured. Its smooth application and strong adhesion – even without primer – make it a reliable solution for deck construction and retrofitting.

ONEBOND M750 SEALANT

UP TO ~~25~~ 25% MOVEMENT CAPABILITY



ONEBOND M750 SEALANT is a premium single-component hybrid sealant for deck caulking, engineered to seal teak joints without primer. This hybrid sealant is moisture-curing, permanently elastic, and easy to work with even in changing temperatures. With up to **±25% movement capability**, M750 accommodates **deck expansions and contractions without cracking or losing adhesion.** It offers excellent colour stability, UV and seawater resistance. Once cured, it can be sanded for a seamless finish. It is solvent-free, low in VOCs.

SURFACE SOLUTIONS



FAST CUTTING,
CONSISTENT PERFORMANCE,
AND SUPERIOR FINISHES

Saint-Gobain brings together the expertise of **Norton Abrasives** and **Farécla polishing** systems to offer a fully integrated solution for sanding, blending, and polishing across all types of marine surfaces.

Whether working on fiberglass, steel or aluminium, wood, gelcoat, or painted surfaces, Norton offers a complete range of abrasive solutions for both interior and exterior marine surfaces, specifically designed to deliver **fast cutting, consistent performance, and superior finishes**. From **heavy grinding and shaping to intermediate sanding and final surface refinement**, Norton's range of discs, sheets, belts, and rolls ensures optimal results at every stage of the preparation process.

Norton delivers a full system approach, with a complete selection of pneumatic and electric power tools, as well as an extensive range of masking products.

To achieve a long-lasting, high-gloss surface, Farécla's Profile range provides high-performance polishing compounds, electric polishers, and pads developed to remove swirl marks and restore brilliance. The combination of Norton abrasives and Farécla polishing products ensures seamless transitions from rough prep to mirror-like finishes.



Isybot by Norton

SANDING TIME
CAN BE CUT BY
UP TO 50%



Developed through a joint venture between Isybot and Norton Saint-Gobain, **Isybot** is a collaborative robot (COBOT) designed to transform sanding and polishing operations in the marine and composite industries.

Unlike traditional robots, Isybot works safely alongside operators, sharing the workload. It handles large surfaces while the operator focuses on finer details, improving productivity, reducing fatigue, and delivering consistent results. Depending on the application, **sanding time can be cut by up to 50%**.

Highly flexible, Isybot adapts to **vertical, horizontal, and curved surfaces** with ease. It is intuitive to program, easy to reposition, and compact enough for tight workshop spaces.

In an environment where labor shortages, rising costs, and quality expectations are growing, **Isybot** offers a cost-effective automation solution, without sacrificing human expertise.

WATER TREATMENT



Ceramic micro-filtration membranes for marine



HIGHER FILTRATION FLOW RATES LOWER ENERGY CONSUMPTION

Marine vessels today face increasingly stringent environmental regulations, requiring effective and reliable wastewater treatment systems.

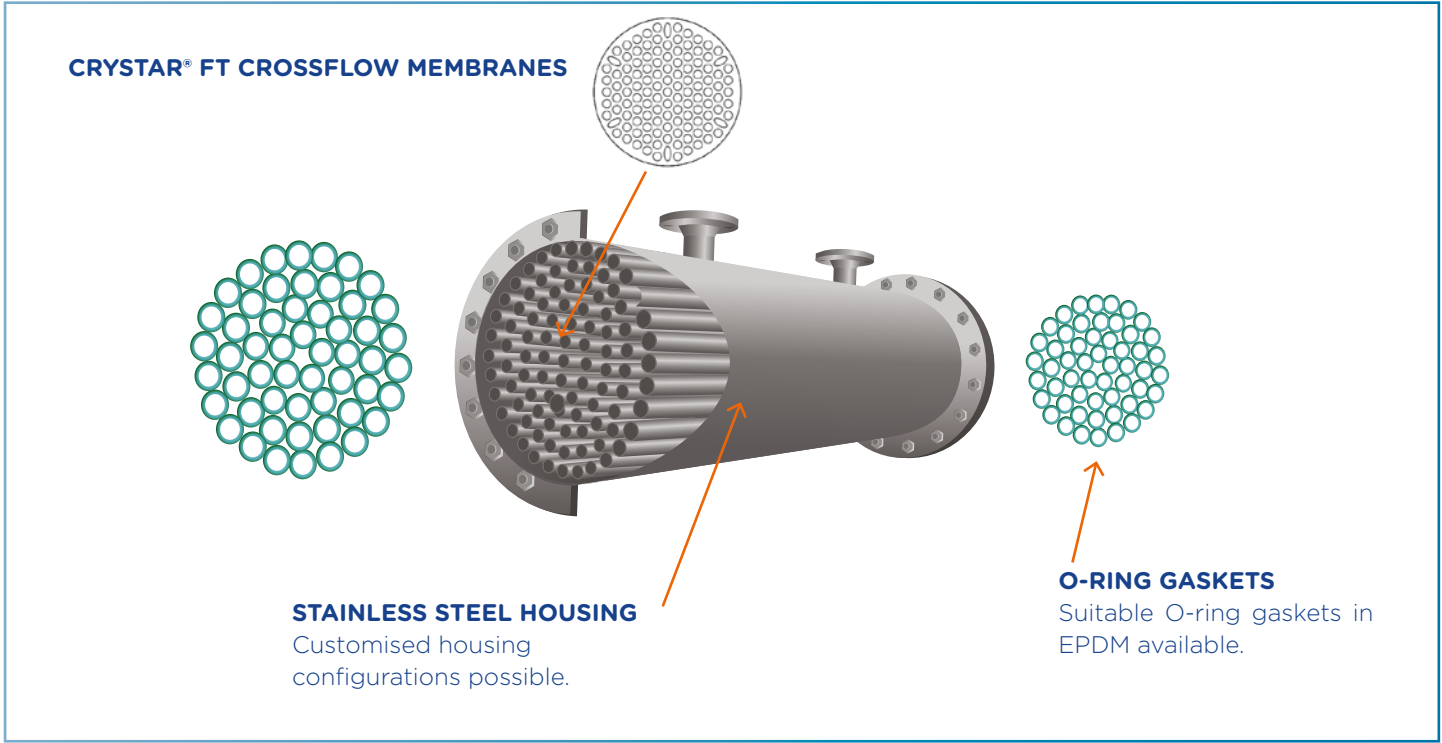
Saint-Gobain Performance Ceramics & Refractories addresses this challenge with **Crystar® FT** crossflow membranes—a ceramic filtration technology specifically developed for **marine scrubber wastewater reuse applications**.

Manufactured from high-purity **recrystallised silicon carbide (RSiC)**, **Crystar® FT** delivers robustness and performance in corrosive, high-temperature environments. Its advanced multilayer membrane ensures **high-efficiency particle retention** while maintaining superior permeability, enabling very effective backwash or backflush operations.

Compared to alumina and other conventional membrane materials, the multilayer RSiC reduces organic matter adsorption. This results in **higher filtration flow rates** and **lower energy consumption**, thanks to an optimised hydraulic design that supports low-pressure filtration processes.

Crystar® FT membranes demonstrate significantly higher thermal shock resistance, enabling faster and more effective cleaning cycles. These properties contribute to **reduced maintenance requirements** and an **extended membrane service life**, supporting long-term operational reliability.

Crystar® FT crossflow membranes provide marine operators with a filtration solution that addresses wastewater treatment compliance while supporting operational efficiency and reduced energy consumption objectives.



EXPLORE OUR FULL SUSTAINABLE MARINE RANGE

Saint-Gobain Marine brings together leading brands to offer a complete suite of solutions for marine applications:

TECHNICAL INSULATION		Isover	Lightweight, fire, acoustic and thermal insulation for ships and offshore installations
		Kaimann	Efficient flexible elastomeric foam insulation solutions for cold water pipes on ships
		HKO	Advanced technical textile solutions for high-temperature applications
HIGH- PERFORMANCE FLOORING		Weber	Functional and durable lightweight flooring systems for marine and offshore
HIGH- PERFORMANCE GLASS		Vetrotech	Multifunctional lightweight glass solutions including fire-rated, pressure and heated glass solutions
		Saint-Gobain Sully	Armoured glass for naval applications offering thermal insulation, fire resistance and anti-radiation
INTERIOR OUTFITTING		Adfors	Decorative and functional fiberglass wall coverings
		Clipso	Innovative stretched fabric solutions for ceilings and walls
		Gyproc	Walls, partitions, linings and ceilings for marine environments - under development

BONDING AND SEALING		OneBond	High-performance bonding and sealing solutions for structural, decking, and demanding marine applications
		Saint-Gobain Life Sciences	Advanced polymer-based solutions for fluid transfer and rigid sealing in marine systems, offering tubing, hoses, and molded or extruded seals for engine, ballast water, and structural applications - under development
		Saint-Gobain Tape Solutions	High performance protection, insulation and bonding tapes - under development
		Saint-Gobain Omniseal Solutions	High-performance seals made of polymers, thermoplastics, and metals for engine shafts, fuel connectors, propellers, and other critical marine applications - under development
VALVE PACKAGES		Brødrene Dahl	One-stop-shop wholesaler for pipes, fittings, valves, actuators and valve control systems for the shipbuilding and offshore industry
SURFACE SOLUTIONS		Norton/ Farécla	Abrasive solutions for manufacturing, repair and maintenance of composite, metal and wooden boats. Pastes and liquids for polishing marine coatings
WATER TREATMENT		Saint-Gobain Performance Ceramics & Refractories	Ceramic micro-filtration membranes for marine wet scrubbers for water purification processes

GET IN TOUCH

For more information about Saint-Gobain Marine solutions or to discuss your specific project requirements, please contact our team:



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