SAINT-GOBAIN MARINE

Raising the standard at sea
Sustainable ship building, comfort & safety at sea

We are driven by a shared commitment to sustainability, innovation, reliable performance, and customer satisfaction.
At the service of the marine industry

Saint-Gobain Marine

- Project follow-up
- Specification assistance
- Wide product coverage
- Digital support
- Collaboration
- Product training
MARITIME PROJECTS FROM PASSENGER SHIPS TO OFFSHORE

Cruise, exploration, yacht & passenger

Fisheries, aquaculture & specialised operations

Deep sea & short sea

Naval & governmental

Offshore & wind energy
WE ADDRESS MAJOR TRENDS IN THE MARINE INDUSTRY

**Sustainability**
- Target of 40% reduction in carbon emissions by 2030 (vs 2008)
- Air pollution control in harbours
- Energy efficient technologies & cleaner fuels
- Environmentally friendly solutions on board

**Safety**
- Piracy and operation safety
- SOLAS regulations (Security of Life at Sea)
- Fire protection, detection and extinction
- Life-saving appliances, safety of navigation
- Health on board – COVID-19

**Digital solutions**
- Virtual reality assisted design
- Digital twin - track and trace of installed items
- Ship building & maintenance using virtual assistance
- Digital on-board service for crew and passenger
- Autopilot and assisted navigation
We always align with IMO regulations, while also shaping the practices of the future.

Our solutions meet environmental, energy efficiency, weight savings, safety, aesthetics and vessel comfort requirements which are omnipresent in our customers’ specifications.

All our products & solutions are tested and certified according to IMO regulations.
Building on the commitment of Saint-Gobain

We design, manufacture and distribute materials and solutions which are key ingredients in the wellbeing of each of us and the future of all.
ABOUT SAINT-GOBAIN

More than 167,000 employees and over 100 nationalities represented

Around 800 manufacturing facilities worldwide, operations in 70 countries

About 3,500 sales outlets

One of top 100 most innovative groups in the world for the last 9 years

Commitment: carbon neutrality in 2050

European or world leadership positions in most of our businesses

Founded over 350 years ago

2020 Turnover: €38.1BN

2020 Operating Income: €2.9BN

Our organization

4 consolidated Regions

European or world leadership positions in most of our businesses

High Performance Solutions

and one global entity

SAINT-GOBAIN MARINE
Sustainable solutions for a wide range of applications
WE OFFER SOLUTIONS FOR A WIDE RANGE OF MARINE APPLICATIONS

- Technical Insulation
- Special Applications
- Valve Packages
- Walls and Ceilings
- High-Performance Flooring
- High-Performance Glass
Technical Insulation

Insulation solutions for bulkhead, deck, HVAC, technical equipment and OEM constructions

Lightweight, fire, acoustic and thermal insulation for ships and off-shore installations

Efficient flexible elastomeric foam insulation solutions for cold water pipes on ships

Fire protection

HVAC & technical equipment

OEM Marine & constructions
High-Performance Glass

Glazing solutions for hull, upper structure & interior, for enhanced passenger experiences

Hull
Pressure- and fire-resistance for a safe hull

Upper structure
Free-vision and daylight high above sea level

Interior
Open spaces with life-safety and decorative glass

Multifunctional light-weight glass solutions: thermal insulation, fire resistance & solar control

Smart glass solutions, tintable on demand for light, heat & glare control

Saint-Gobain Sully:
Armoured glass for navy ships, offering thermal insulation, fire resistance and anti-radiation
High-Performance Flooring

Functional and durable lightweight flooring systems for marine and offshore

Floating floors, self-levelling compounds, lightweight floors, thermo floors, waterproofing systems, resin coatings, raised floors and boards requiring all from fire insulating constructions with non-combustible materials, sound insulating constructions to primary deck coverings
Acoustic ceilings and wall panels to create optimal room acoustics for comfortable indoor environments

Lightweight non-combustible gypsum board (MED approved) for walls and ceilings in marine projects, both new construction and renovation, flexible to allow for creative designs, yet strong and durable
Valves Packages

Pipes, fittings, valves, actuators and valve control system for shipbuilding and offshore

BRØDRENE DAHL

One-stop-shop wholesaler for pipes, fittings, valves, actuators and valve control systems for the shipbuilding and offshore industry; worldwide delivery arranged by professional logistic partners
Special applications

High-performance technical solutions specially designed for the marine industry

Saint-Gobain Coating Solutions:
Thermal spray equipment to protect against corrosion, oxidation and abrasion

SHEERGARD

High-performance radomes with options for unique styling, delivering the highest RF performance, to improve the efficiency of maritime operations or maximize bandwidth and connection speeds
Solutions for all your needs
SOLUTIONS FOR ALL YOUR NEEDS

We can support your marine & offshore projects, whatever your priorities

- Sustainability
- Thermal comfort
- Acoustic comfort
- Visual comfort
- Design
- Fire safety
- Durability
- Security
- Total cost of ownership
- Total cost of installation
Limit the environmental impact of your naval projects, control the air and water pollution they generate, and reduce their energy consumption.
Engage in green shipbuilding

Choose our lightweight solutions to limit the environmental impact of your projects.

**ISOVER**

With U SeaProtect™, save up to 50% on the weight of insulation and benefit from energy savings (fuel and HVAC) and reduced greenhouse gas emissions.

**vetrotech**

Insulated (double and tripled glazed units), high performance coatings and weight savings to reduce energy consumption and CO₂ emissions.

**weber**

Weber Marine lightweight solutions, enabling lighter and more efficient constructions, reducing energy consumption by at least 50%.

**SageGlass**

Save energy and greenhouse gas emissions from air-conditioning systems, with the SageGlass® Marine range regulating daylight.
Thermal Comfort

Provide great experiences for passengers by ensuring a well-balanced thermal environment and comfortable temperatures all year round, whatever the weather conditions outside.
Ensure optimal thermal comfort

Choose our best-in-class thermal performance solutions.

**Isover**

The U SeaProtect™ range offers excellent thermal insulation through the whole temperature range, offering best thermal comfort, whatever the weather conditions.

**Weber**

Designed for heating floors, to improve thermal comfort in living quarters, Weber Marine Thermofloor is solving problems with snow, ice, humidity, condensation and freezing.

**Vetrotech**

Vetrotech coatings guarantee comfortable temperatures on board, no matter what the conditions are outside. They can be used for cabin windows, balcony doors, public spaces, etc.

**SageGlass**

The SageGlass Marine range protects passengers from excessive solar heat and ensures a comfortable interior climate on a ship.
Acoustic Comfort

Ensuring a quiet sound environment by limiting unwanted noise means offering the best acoustic comfort for passengers and crew.
Provide the best acoustic comfort

Trust our cutting-edge acoustic solutions.

<table>
<thead>
<tr>
<th><strong>ISOVER SAINT-GOBAIN</strong></th>
<th><strong>WEVER SAINT-GOBAIN</strong></th>
<th><strong>VETROTECH SAINT-GOBAIN</strong></th>
<th><strong>ECOPHON SAINT-GOBAIN</strong></th>
<th><strong>KAIMANN SAINT-GOBAIN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The U SeaProtect™ range offers excellent acoustic insulation performances (sound reduction Rw values up to 51 dB)</td>
<td>Weber Marine dB Floor is designed for ships and offshore installations requiring sound insulation, effective against airborne, impact and structure-borne sound</td>
<td>STADIP SILENCE is an acoustic glazing that keeps out intrusive sound, ensuring tranquility in living and sleeping areas. A special film interlayer reduces sound transmission</td>
<td>Acoustic ceilings and wall panels that create the best possible room acoustics and help improve people’s wellbeing</td>
<td>Insulating the pipes with Kaiflex reduces the noise generated by the sanitary installations in the cabins, which can be a real source of disturbance.</td>
</tr>
</tbody>
</table>
Visual comfort

Improve the travel experience as a whole, providing passengers with the greatest visual comfort, maximizing access to daylight and exterior views.
Offer passengers maximum visual comfort

Choose from a wide range of glazing solutions.

Heated glass designed to keep windows within the marine environment free from frost, snow, vapor and condensation. It provides a clear and undistorted view in all weather conditions despite varying humidity levels in the air and extreme temperatures.

SageGlass® Marine regulates the amount of sun that penetrates a window: three different levels of glare protection and daylight entry are possible within the same pane.
Design

Benefit from maximum design freedom in your naval projects, thanks to lightweight or space-saving solutions, or to efficient and intelligent systems.
Enhance the aesthetic and design side of your projects

Prefer our architectural solutions, combining functionality and design.

SageGlass® Marine offers a premium alternative to blinds or shades, providing reliable year-round indoor comfort with a clear view to the outdoors.

With the Vetrotech range and decorative glazing solutions, create open and pleasant spaces.

Gypsum boards with an ultra smooth surface which makes them perfect for a high-end interior lining. Straight or curved, they allow a creative interior design.

Uniquely designed radomes with aesthetic versatility in unique shapes that integrate with or complement the architecture of the ship.
Fire safety

Protect passengers and crew by preventing and limiting the risk of spreading a fire on board, using non-combustible materials and fire-resistant solutions.
Ensure fire safety on board

Rely on our wide range of non-combustible and fire rated solutions.

A full range of MED approved marine fire insulation solutions for A15-A60 deck and bulkhead

Fire-resistant glass solutions from B0-B30, A0-A60 to H120, in compliance with FTP regulations to ensure passenger and crew safety. Possible to combine with other solutions

MED approved non-combustible gypsum boards; Rigidur Marine can be used in fire resistant wall and ceiling systems tested with U SeaProtect™ from ISOVER

Designed for ships and oil platforms requiring fire insulating constructions, Weber Marine A-60 Floor is non-combustible and DNV A-60 approved
Security

Guarantee maritime safety, under the most extreme conditions.
Guarantee maritime safety, under the most extreme conditions

Choose our high-performance glazing solutions offering the highest mechanical resistance.

Pressure resistant glazing for the hull and upper structure to protect people and goods at all times against the high pressure waves and winds.

SAINT-GOBAIN SULLY offers armoured windows and glazing solutions for military ships, providing protection against blast, radar detection and bullets.
Durability

Avoid wear and corrosion, by protecting the structure of your ships, and by choosing the right materials.
Create long-lasting vessels and reduce the need for maintenance

Trust our High-quality materials and long-lasting solutions.

SAINT-GOBAIN COATING SOLUTIONS:
A broad range of thermal spray equipment and consumables to protect parts and machinery against abrasion, erosion, corrosion and high-temperature oxidation.

Gyproc

Rigidur Marine is a gypsum board that has superior rigidity, durability and mechanical strength (surface hardness of 35N/mm²)

Sheergard

Made with high-performance materials, the Sheergard radomes are highly durable, providing resistance to impact, corrosion and moisture

A range of flexible elastic foam insulation products to prevent condensation as well as the corrosion and premature aging that go with it.

SAINT-GOBAIN MARINE
Total cost of ownership

Get the most out of your naval projects by prioritizing energy saving and sustainable solutions.
MAKE YOUR MARINE PROJECTS EVEN MORE PROFITABLE

Reduce fuel consumption or increase payload by using lightweight solutions

Save energy on HVAC systems thanks to optimal thermal performances

Save money on expensive mechanical shading and air conditioning systems

Extend the life of your projects and reduce downtime for costly repairs
Rule of thumb: A reduction of 1 tonne in the mass of ships saves around 1 tonne of fuel per year; fuel price per metric tonne is 337 US$ (average over 6 months).

<table>
<thead>
<tr>
<th></th>
<th>Weight of traditional solutions</th>
<th>Weight of Saint-Gobain solutions</th>
<th>Weight savings</th>
<th>Estimated annual fuel savings</th>
<th>Estimated annual cost savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass</td>
<td>59 000 kg</td>
<td>43 000 kg</td>
<td>- 16 000 kg</td>
<td>16 t</td>
<td>5 392 $</td>
</tr>
<tr>
<td>Flooring</td>
<td>51 000 kg</td>
<td>27 000 kg</td>
<td>- 24 000 kg</td>
<td>24 t</td>
<td>8 088 $</td>
</tr>
<tr>
<td>Insulation</td>
<td>320 000 kg</td>
<td>220 000 kg</td>
<td>- 100 000 kg</td>
<td>100 t</td>
<td>33 700 $</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>430 000 kg</strong></td>
<td><strong>290 000 kg</strong></td>
<td><strong>- 140 000 kg</strong></td>
<td><strong>140 t</strong></td>
<td><strong>47 180 $</strong></td>
</tr>
</tbody>
</table>
Total cost of installation

Control installation costs, reducing installation time thanks to solutions that are easier to handle, transport and store.
REDUCE INSTALLATION TIME AND COST

**Save valuable installation time**

**ISOVER:**
Optimized product features (low weight, use of rolls, Quick-Cover system)

**WEBER:**
Pumpable products, reducing the time needed for screeding, ensuring installation of primary deck covering up to 300 m²/hr and walkable after 1 to 3 hours

**SAINT-GOBAIN SULLY:**
Ready-to-install windows, using a unique frame technology, requiring minimum installation time

**SAINT-GOBAIN COATING SOLUTIONS**
Easy-to-apply coatings and equipment for faster application

**KAIMANN:**
Pipe supports and a full range of self-adhesive tubes and accessories ensure faster installation of the insulation

**Help less skilled installers with easy-to-handle solutions**

**ISOVER:**
Products with high compressibility limiting transport and storage space

**BRØDRENE DAHL:**
Worldwide delivery arranged by professional logistic partners

**Reduce transport & storage costs**

**Services dedicated to installers**

**BRØDRENE DAHL:**
A simplified flow of products and information from manufacturers to installers; assistance in project administration, commissioning, quality control
## GET IN TOUCH

### Kolbu, Lars Fillip
Head of SGMA

**TEL:**
+47 905 90 550

**EMAIL:**
lars.f.kolbu@saint-gobain.com

### Nielsen, Jesper
Marine Business Manager
+45 26 87 52 82
jesper.nielsen@saint-gobain.com

### Hansen, Brian
Business Development Manager
+45 26 11 93 78
brian.hansen@saint-gobain.com

### De la Cova Garcia, Luis
Sales Relation Manager
Shipbuilding Europe
+49 (0) 172 7595 276
luis.delacova@saint-gobain.com

### Zini, Pierre-Yves
Business Manager Glass for Marine & Armoured Vehicles
+33 2 38 37 30 47
pierre-yves.zini@saint-gobain.com

### Badoux, Nathalie
Marketing & Development Manager
+33 2 38 37 30 27
nathalie.badoux@saint-gobain.com

### Gerstgrasser, Franz
Sales Manager
+49 172 235 41 86
franz.gerstgrasser@saint-gobain.com

### Haukås, Ivar
Sales Manager
+47 948 56 388
ivar.haukas@dahl.no

### Falck, Max
Business Units & Sales Process Director
+46 42 17 99 77
max.falck@ecophon.se

### Chaudhari, Yogesh
Category leader
+91 22 4021 2121
yogesh.chaudhari@saint-gobain.com

### Kale, Victoria
Business Development Manager
+1 330 298 3933
victoria.kale@saint-gobain.com

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**SAINT-GOBAIN MARINE**
Because together we can build tomorrow’s vessels

Together we can raise the standard at sea
THANK YOU!