

# SAINT-GOBAIN MARINE

Raising the standard at sea



# A TRUSTED PARTNER IN THE MARITIME INDUSTRY

Saint-Gobain Marine brings together several business lines under **one common goal**: delivering **innovative, high-performance, light and sustainable solutions** to the shipbuilding industry.

## A COMPLETE CERTIFIED OFFER

- Full range of solutions: **technical insulation, glass, flooring, and interior outfitting solutions**
- Tested & approved for **IMO/SOLAS compliance**
- Designed for **energy efficiency, durability, and passenger comfort**

## SEAMLESS ACCESS TO SAINT-GOBAIN

- **Single-entry point** to multiple solutions
- Solutions that work **together for optimal performance**

## EXPERT SUPPORT & TECHNICAL ASSISTANCE

- **Specification and compliance** guidance for shipyards and naval architects
- Technical expertise in **weight reduction, acoustics, and energy efficiency**
- **Global presence** with local support

# ABOUT SAINT-GOBAIN

More than  
**160,000**  
employees and over  
100 nationalities represented

Around  
**900**  
manufacturing facilities  
worldwide, operations in

**76**  
countries

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

**360**  
**years ago**

2023 SALES

**€47,9BN**

2023 OPERATING INCOME

**€5.25BN**

# OUR 360° SUSTAINABILITY APPROACH

## Energy & carbon

- Increased energy efficiency
- Increased use of renewable energies
- Reduced embodied carbon emissions

## Resources & circularity

- Reduced use of non-renewable resources
- Reduced freshwater consumption
- Increased lifetime and use rate
- Reduced amount of non-recovered construction & demolition waste

## Health & safety on jobsites

- Reduced builders' exposure to hazardous substances during installation
- Improved working conditions for installers

## Health & wellbeing indoors

- Improved indoor air quality
- Better acoustics
- Better thermal comfort
- Better visual comfort





Fisheries,  
aquaculture  
& specialised  
operations



Cruise,  
exploration,  
yacht &  
passenger

5



Deep sea  
& short sea

SAINT-GOBAIN MARINE



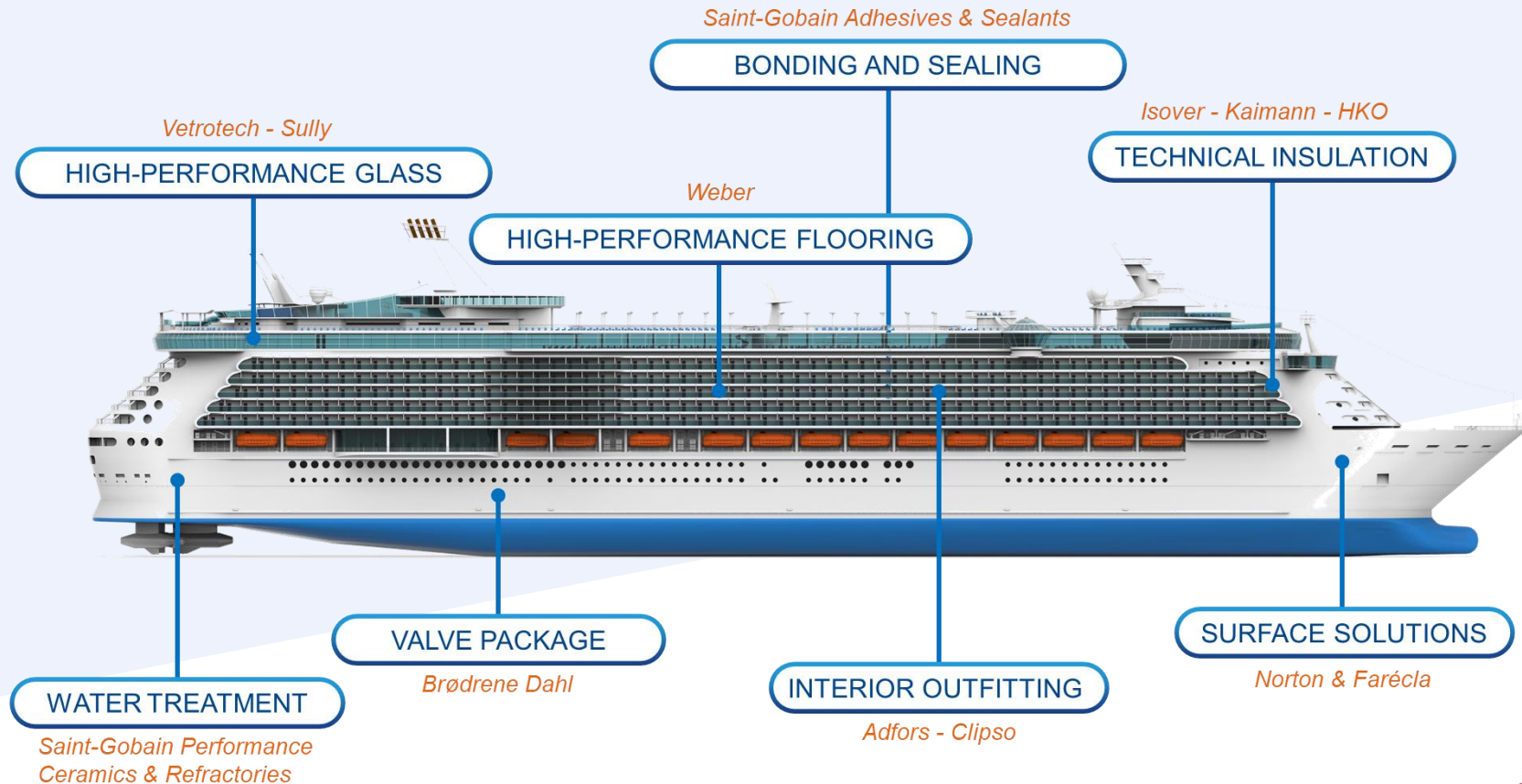
Naval  
& governmental



Offshore  
& wind energy



# FROM HULL TO INTERIOR: A WIDE RANGE OF SOLUTIONS



# OUR SOLUTIONS HELP ADDRESS THE SUSTAINABILITY CHALLENGES OF THE MARITIME INDUSTRY

THE IMO STRATEGY SETS OUT A CLEAR ROADMAP FOR PROGRESSIVELY REDUCING GREENHOUSE GAS EMISSIONS FROM GLOBAL SHIPPING, WITH THE TARGET TO ACHIEVE NET-ZERO EMISSIONS BY 2050.



## EFFICIENCY

- **Fire safety**
- **Energy efficiency**
- **Space** optimisation
- **TCI** (Total cost of installation)
- **TCO** (Total cost of ownership)



## LIGHTWEIGHT

- **Stability** and **buoyancy**
- Increased **payload**
- **Speed** optimisation
- **Fuel savings**



## SUSTAINABILITY

- **Limit CO<sub>2</sub> emissions** related to HVAC and fuel (1 ton of fuel emits around 3 tons of CO<sub>2</sub>)
- **Reduce embodied carbon**
- **Circularity** (recycled materials and recycling solutions)
- **Comfort** for passengers & crew
- **Health & safety**

01

# TECHNICAL INSULATION



# TECHNICAL INSULATION

Isover, Kaimann, HKO

IMPROVE ONBOARD SAFETY AND  
COMFORT WHILE OPTIMISING  
ENERGY EFFICIENCY, PREVENTING  
CONDENSATION AND DRIVING  
SUSTAINABILITY GOALS.





## U SEAPROTECT®

A comprehensive range of fire rated insulation solutions for decks, bulkheads and floating floors.

Up to A60 for steel and aluminium divisions.

### CHARACTERISTICS:

- Up to 45% lighter than traditional stone wool solutions
- Thin solutions
  - 50 mm on the plate for A60 steel Bulkhead and Deck
  - 20 mm around the stiffeners for A60
  - No insulation around the stiffeners for A15
- A range of facings classified as low flame spread
- Tested according to FTP Code 2010

| PRODUCT RANGE | PRODUCT FORM              | DENSITY (KG/M³) | FACING |                                | THICKNESS (MM) |
|---------------|---------------------------|-----------------|--------|--------------------------------|----------------|
| U SeaProtect® | Roll<br>Slab<br>Wired mat | 24              |        | Unfaced                        | 20 mm          |
|               |                           | 36              | Alu1   | Aluminium                      | 25 mm          |
|               |                           | 56              | G120   | Glass Cloth (black)            | 30 mm          |
|               |                           | 76              | G220   | Glass Cloth (white)            | 40 mm          |
|               |                           | 86              | G420   | Glass Cloth (white)            | 50 mm          |
|               |                           | 90              | B-AL   | B-facing (Alu facing outside)  | 70 mm          |
|               |                           | ...             | B-GL   | B-facing (Glass Cloth outside) | 100 mm         |

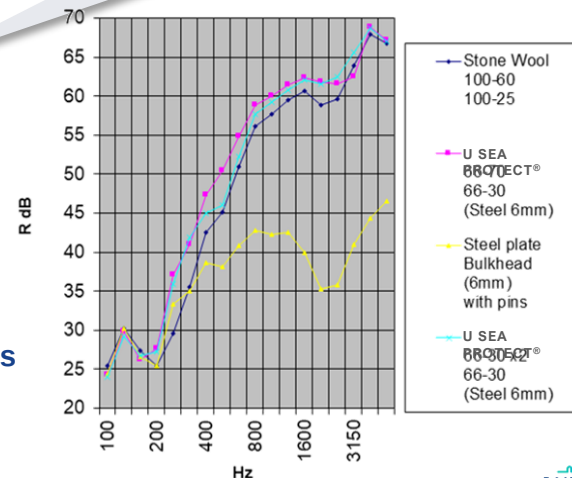
## U SEAPROTECT®

- Higher thermal performance, same weight – or same performance, less weight!*
- Example: U SeaProtect® (60 kg/m³) is **40% lighter** and offers **lower thermal conductivity** (i.e. better lambda values), compared to conventional stone wool (100 kg/m³).

| $t_m$ [°C]                    |                         | 0     | 10    | 50    | 100   | 150   | 200   | 250   | 300   | 350   | 400   |
|-------------------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Stone wool<br>100 kg/m³       | Lambda N,P<br>[W/(m²K)] | 0.031 | 0.032 | 0.037 | 0.044 | 0.052 | 0.061 | 0.072 | 0.083 | 0.095 | -     |
| U SEA<br>PROTECT®<br>60 kg/m³ | Lambda N,P<br>[W/(m²K)] | 0.029 | 0.030 | 0.035 | 0.043 | 0.050 | 0.059 | 0.070 | 0.080 | 0.092 | 0.105 |

- Superior sound reduction while reducing weight! Higher performance doesn't mean higher density!*
- Example: U SeaProtect® (66 kg/m³) is **34% lighter** and offers **better acoustics** than conventional stone wool (100 kg/m³).

FOR EVEN BETTER PERFORMANCE  
TO WEIGHT RATIOS:  
DISCOVER OUR RANGE OF GLASS  
WOOL SOLUTIONS

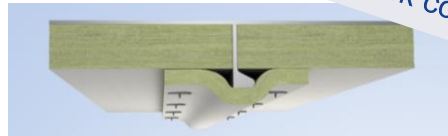
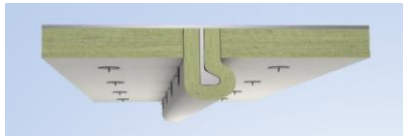
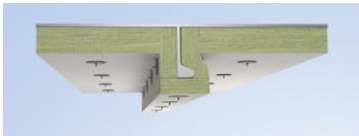


# FOCUS ON TOTAL COST OF INSTALLATION

Total cost of installation includes **materials, labor, logistics, and compliance costs**. Reducing TCI leads to **faster, more efficient installations** with minimal waste and downtime.

## U SEAPROTECT®

- Light stone wool for easy handling and quick installation
- **3 installation methods** including a quick cover option



- Highly compressible rolls (up to 56 kg/m<sup>3</sup> density) for optimized transport and storage - **up to 60% space savings**
- ***Less weight, less time, less cost!***



## B-15 WALL EXTENSIONS

Convenient and fast installation, with only 2 products.

- 2 standard products from the U SeaProtect® range.
- Compatible with standard accessories

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



## SEA CLIMAVER®

A high-performance, sustainable self-supporting HVAC duct system.

- Up to 65% lighter than traditional metal ducts
- Made of ultra rigid glass wool boards for durability
- Excellent thermal conductivity (0.032 W/m·K) and airtightness
- High sound absorption ( $\alpha_w = 0.85$ )
- Made from up to 75% recycled glass wool

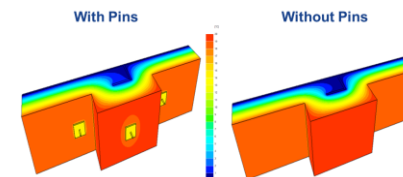
*Sustainable solution!!*



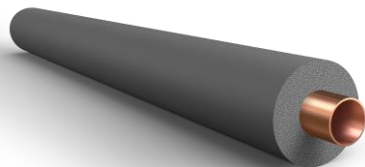
## SEA COMFORT PROFIX

Self-adhesive glass wool to avoid pins in thermal and acoustic solutions.

- Faster installation
- Improved U-value by 20 to 30%
- Improved acoustics
- Less weight: 100 m<sup>2</sup> ≈ 21 kg







## **KAIFLEX ST S2**, to prevent condensation and corrosion under insulation on cold pipes

- Closed-cell flexible elastomeric foam
- Suitable for complex geometries
- Classified as building material BL-s2, d0
- Offers protection against microorganisms and mould



## **KAIFLEX HF PLUS S2**, the halogen-free option for living quarters

- Free of PVC, chlorides, or brominated flame retardants
- Prevents condensation and protects from corrosion
- Reduces smoke, ensuring better visibility for safe evacuation



## **U PROTECT® PIPE SECTIONS ALU2**, to minimize heat loss from warm water pipes.

- Lightweight and simple to install
- Fabricated from light stone wool or glass wool



## COATED FABRICS

A full range of silicone, PU and AL-foil coatings for insulation covers.

- Filament or texturized fabrics
- Fabrics with functional coatings or laminations
- Resistant against several media
- Several standard colours available
- 1000 – 2030 mm width
- E-glass up to 550°C
- ECR-glass up to 750°C
- Silica up to 1.000°C



## HT FIBRE NON-WOVENS

Raw glass, laminated glass and silica blanket for insulation jacket filling.

- Stable against vibration
- Incombustible, binder free materials
- Low emission
- Raw blankets up to 3.0 m width
- Laminated blankets up to 1.0 m width
- E-glass up to 550°C
- ECR-glass up to 750°C
- Silica up to 1.000°C



## HT FINISHED FABRICS

Fabrics with HT-finish up to 1.000 °C for inner layers

- CS-finish and Vermiculite impregnation classified as incombustible
- Increased abrasion resistance
- Steel-wire reinforced fabrics with high tensile strength
- Customized colours feasible
- Optionally thermally desized

02

# HIGH-PERFORMANCE FLOORING

# HIGH-PERFORMANCE FLOORING

Weber

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OPTIMIZE ONBOARD SAFETY AND  
COMFORT WITH INNOVATIVE DECK  
COVERINGS, ENSURING FAST  
INSTALLATION, SUPERIOR  
DURABILITY, COMFORT, AND  
ENHANCED SUSTAINABILITY





## EPOXY & POLYURETHANE SOLUTIONS



## DECK COVERING



## SOUND DAMPENING & FLOATING FLOORS

SAINT-GOBAIN MARINE

## WATERPROOFING & TILING



## MARINE BOARDS



## DECK COVERING

Flexible, durable, fast curing and pumpable screed systems designed for leveling decks before floor covering installation.

### CHARACTERISTICS:

- Pumpable self-leveling screed for faster application: **up to 300 m<sup>2</sup>/hour** of deck levelling
- Foot traffic ready **in 1-3 hours**
- Floor covering installation possible **within 1-3 days**
- Vibration reduction for a smoother onboard experience
- High strength and flexibility, very long-lasting
- Lightweight formulation for **up to 68% weight savings**



## EPOXY & POLYURETHANE

Durable, safe, and chemical-resistant epoxy and polyurethane coatings designed for long-term usage and easy maintenance.

### CHARACTERISTICS:

- **High mechanical strength** to withstand impact and heavy loads
- **Flexible and crack-resistant** to absorb vibrations
- **Heavy-duty and chemical-resistant** for demanding areas
- Seamless and **easy to clean** for hygiene-sensitive spaces
- Enhanced comfort with thermal and acoustic insulation



- Weight saving of approx. 15-20 kg/m<sup>2</sup>
- Reduced building height of approx. 10 mm vs. Flooring with ceramic tiles

## SYSTEMS WITH STEEL PLATES

|                                             |                                     | Acoustic Flooring Solutions                                                     | A-60 Fire-Resistant Flooring | Mechanical Performance Flooring |
|---------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------|------------------------------|---------------------------------|
| SYSTEM CHARACTERISTICS                      | Insulation                          | U SeaProtect® Slab 90                                                           | U SeaProtect® Slab 110       | U SeaProtect® CR-H Slab 110     |
|                                             | Insulation thickness                | 50 mm                                                                           | 50 mm                        | 50 mm                           |
|                                             | Top layer                           | 3 +2 mm steel plate with visco-elastic layer in between «WEBER MARINE VEM PU-1» |                              |                                 |
|                                             | Fire Class                          | A-0                                                                             | A-60                         | A-60                            |
|                                             | Final thickness                     | 56 mm                                                                           | 56 mm                        | 56 mm                           |
|                                             | System weight                       | 45 kg/m²                                                                        | 46 kg/m²                     | 46 kg/m²                        |
| INSULATION PARAMETERS                       | Nominal Density                     | 95 kg/m³                                                                        | 110 kg/m³                    | 110 kg/m³                       |
|                                             | Thickness                           | 50 mm                                                                           | 50 mm                        | 50 mm                           |
|                                             | Compressive strength                | 5 kPa                                                                           | 7 kPa                        | 25 kPa                          |
|                                             | Dynamic stiffness                   | 4 MN/m³                                                                         | 6 MN/m³                      | 11 MN/m³                        |
| SYSTEM SOUND & VIBRATION INSULATION VALUES* | Airborne sound insulation, Rw in dB | 61                                                                              | 58                           | 51                              |
|                                             | Impact sound level Ln,w in dB       | 67                                                                              | 69                           | 74                              |

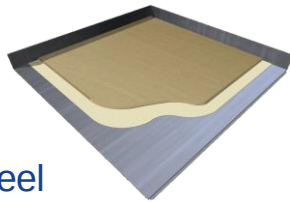
\* value obtained from modelisation

- **Lightweight** - one layer construction in 50 mm with steel plates on top (glue = Weber Marine VEM PU-1)
- U SeaProtect® Slab 90 for **optimal acoustics**
- U SeaProtect® Slab 110 for **A-60**
- U SeaProtect® CR-H Slab 110 (crimped slab) for A-60 with **high compressive strength of over 20 kPa/m²**



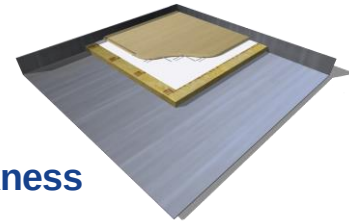
## SYSTEMS WITH CEMENT-BASED SELF-LEVELLING SCREED

### WEBER MARINE DAMPING FLOOR



- A flexible, durable system for steel decks, with low constructional height
- Excellent **structure borne sound insulation**
- The system consists of a **viscoelastic layer** and a **fiber-reinforced cement-based leveling layer** on top of the steel deck, preventing vibrations of the steel structure.

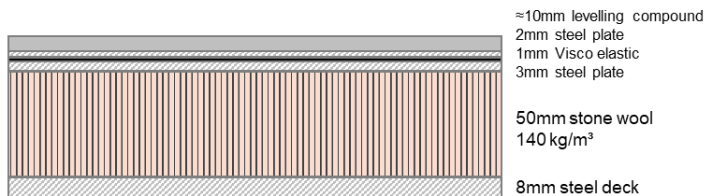
### WEBER MARINE A-60 FLOOR N LIGHT



- **A-60 with only 45 mm total thickness**
- **No need for steel plates** => replaced by a pumpable, fiber-reinforced cement-based self-levelling material with exceptional strength and flexibility.
- **Excellent noise and vibration insulation**
- **Reduced installation time\* and material cost\*** by up to 50%
- Improved working environment / HSE

\*Compared to traditional steel plate floating floor solutions

## TRADITIONAL FLOATING FLOOR



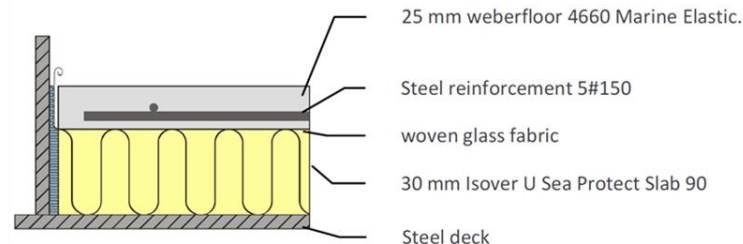
Airborne sound insulation: 51 Rw

Impact sound insulation: 61 Lnw

Weight per m²: 65 kg

Total thickness: 66 mm

## WEBER MARINE A-60 FLOOR N LIGHT



Airborne sound insulation: 57 Rw

Impact sound insulation: 57 Lnw

Weight per m²: 48 kg

Total thickness: 55 mm

+ 12%

+ 7%

**UP TO  
26%  
WEIGHT  
SAVINGS!**

APPROX. WEIGHT SAVINGS WITH WEBER SOLUTIONS:

**17kg/m² (26%) = 17 000 kg per 1000 m²**

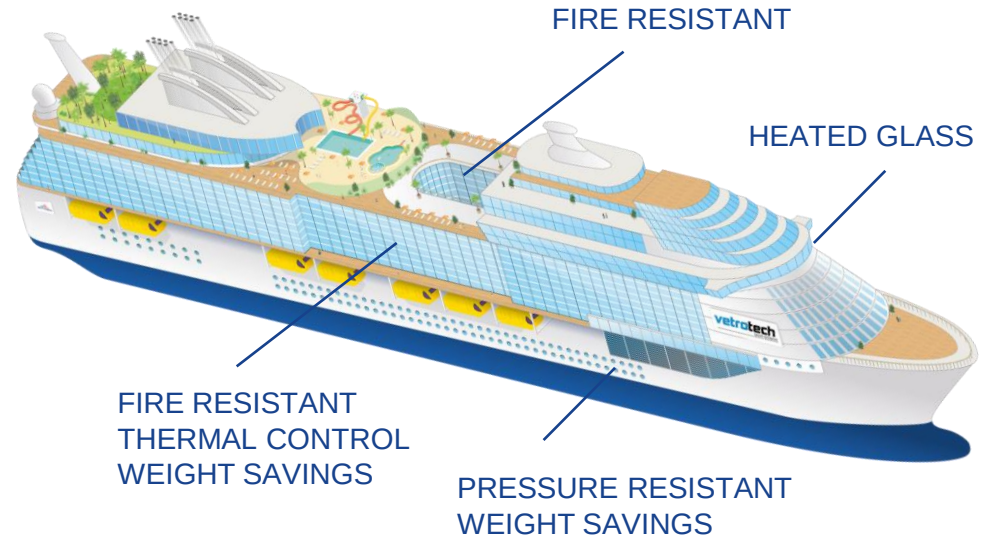
03

# HIGH-PERFORMANCE GLASS

# HIGH-PERFORMANCE GLASS

Vetrotech, Sully

ENHANCE ONBOARD SAFETY AND  
PERFORMANCE: HEATED GLASS,  
FIRE PROTECTION, PRESSURE  
RESISTANCE, BLAST RESISTANCE,  
AND EMI FUNCTIONALITIES.







## FIRE RATED GLASS: CONTRAFLAM A60

Fire resistant glass solutions play a key role in **preventing the spread of flames, smoke, hot gases, and radiant heat**, ensuring a safe evacuation.

### CHARACTERISTICS:

- Thermally toughened safety glass
- Transparent **intumescent silicate-based interlayer** that reacts when exposed to fire

### BENEFITS:

- Maintains integrity of the glass & insulation of the area **for up to one hour**
- Can be inserted in a double or triple glazing unit, providing pressure resistance, acoustic & thermal comfort

### APPLICATION:

**Internal & external**, fire from outside or inside, restaurant, lobby, lifeboat area, emergency corridor and exit...



## HEATABLE GLASS: THERMOVIT

**Electrically heated laminated glass**, using almost invisible conductive wires, **keeping a clear and undistorted vision**, as well as thermal comfort, in cold and humid weather conditions.

### CHARACTERISTICS:

- Heating capacities between 3 - 30 W/dm<sup>2</sup>
- Large sizes up to 2600 x 5500 mm are possible
- Available with a power supply varying from 12 V - 440 DC and 12 V - 110 AC

### BENEFITS:

Keeps windows free from frost, snow, vapour and condensation.

### APPLICATION:

Wheelhouse, or any other place, for enhanced visual and thermal comfort.



## EMI PROTECTION

Layer deposit under vacuum conditions, allowing to **reduce electro-magnetic waves by 99%**.

### CHARACTERISTICS:

- Metallic coating
- Adaptation to requirement

### BENEFITS:

- Protect the ship electronics
- Ensure confidentiality of the ship
- Excellent visibility (no distortion) compared to grid (wires)

### APPLICATION:

Navy ship bridges / command room



## BULLET & BLAST RESISTANT

Chemically toughened glass: controlled chemical reinforcement performed in soda bath

### APPLICATION:

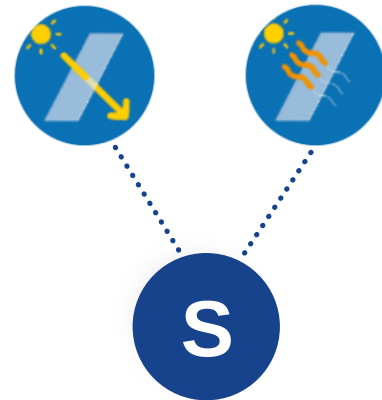
- Navy and defence vessels
- Available as full window system: frame, glass, wipers & control systems

### BENEFITS:

- Increases the mechanical properties of the glass => twice the resistance of tempered glass
- Maintains the optical properties (no distortion compared to tempered glass)
- Sharpness in case of breakage

## WITH A TRIPLE SILVER COATING

- **LIGHT TRANSMISSION** 60-70%: Creates an extremely bright atmosphere inside the room.
- **G-FACTOR** 0,28-0,32: Guarantees maximum comfort and enhances consumption savings.
- **U-VALUE** 1.0 W/m<sup>2</sup>K: (up to 0.5 W/m<sup>2</sup>K, with triple glazed units). Consumption savings.
- Selectivity greater than 2: Gives twice as much light versus heat.



### SELECTIVITY (S OR LSG)

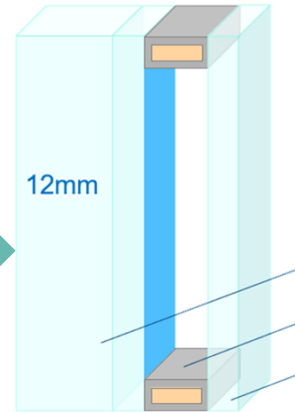
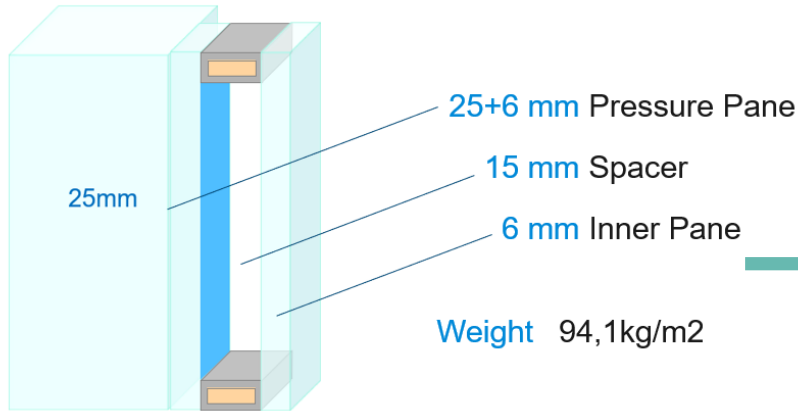
Ratio between the glass' light transmission and solar factor.  
When the selectivity of the glass is higher than 2, it gives you twice as much light versus heat.



# FOCUS ON WEIGHT SAVINGS – STADIP MARINE

UP TO  
**35%**  
WEIGHT  
SAVINGS!

Standard DGU solution 25mm ISO 614 pressure pane



1.0 W/m<sup>2</sup>\*K U-Value

58% Light transmission

0.26 G-Value

**61.6 kg** Weight

12+6 mm KM Ultimate 23-1

15 mm Spacer argon

6 mm Securit

- Substitution of **monolithic high thickness glass** by a **thinner/lighter** approved solution (DNV certified)
- Saves **up to 35%** weight without compromising performance



## WINDOWS, SIDE SCUTTLES, WINDOW WALLS, WINDSCREENS

### GLASS VALUES

All exterior windows, glued in glasses, glass doors and glasses for scuttles to be of double glass type in accordance of ISO 21005 and ISO 614 with following values:

- **U Value down to  $0.5\text{W/m}^2/\text{C}$  – Triple glazing unit**
- **U Value down to  $1.0\text{W/m}^2/\text{C}$  – Double glazing unit**
- **Sun factor 0.23 or better**
- **Daylight transmittance  $>60\%$  (depends on glass thicknesses)**

### FRAME VALUES

Water tightness test to be arranged acc. ISO 3903 rules

- Window frame must to be made to hot extruded high tensile steel
- Surface treatment Sandblasting 2,5 ZN silicate 70 microns
- Topcoat treatment must to be carried out before installing the glass

**CONTACT US FOR SPECIFICATION  
SUPPORT TO ACHIEVE OPTIMAL  
GLASS VALUES FOR YOUR  
PROJECTS**

# CALUMEN TECHNICAL SUPPORT

## DISCOVER THE IMPACT OF DIFFERENT GLASS SOLUTIONS ON A VESSEL'S HVAC ENERGY CONSUMPTION

Open Save Settings Help Reset Round (0.99) Calumen III 1.26 Advanced external

Configuration + Add a configuration

**TOOLS**

- Angle of inclination related to vertical position: 0°
- Tools
- Customized compositions
- Spectra
- WERs
- EPD VERIFIED
- Multi-stadip file builder (SGU only)

**Glazing 1**

Outdoor

Substrate: PLANICLEAR

Thickness: 6

Film: PVB standard

Number: 4 1.52

Substrate: PLANICLEAR

Thickness: 10

Coating: COOL-LITE SKN 176 II

Indoor

**Gas Cavity 1**

ARGON (90%)  
AIR (10%)  
16 mm -

**Glazing 2**

8  
PLANICLEAR (8 mm)

+ Add one element (Glazing)

**Europe**

**LUMINOUS FACTORS** D65 Obs2 : CIE015:2018

|                            |                    |
|----------------------------|--------------------|
| Light transmission (TL %)  | 67 %               |
| L*/a*/b*                   | 85.4 / -7.6 / 2.1  |
| Ra                         | 91.7               |
| Outdoor reflection (RLe %) | 12 %               |
| L*/a*/b*                   | 41.8 / -3.3 / -8.5 |
| Ra                         | 80.4               |
| Indoor (RLi %)             | 15 %               |
| L*/a*/b*                   | 45.1 / 0.3 / -0.8  |

**ENERGY FACTORS** EN410:2011

|                               |                      |
|-------------------------------|----------------------|
| Transmission (Te) 30 %        | UV (Tuv) 0 %         |
| Outdoor Reflection (Ree) 20 % | Indoor (Rei) 35 %    |
| Absorption (AE1) 48 %         | Absorption (AE2) 1 % |

**SOLAR FACTORS** EN410:2011

|                               |
|-------------------------------|
| Solar factor (g) 0.34         |
| Shading Coefficient (SC) 0.39 |

**THERMAL TRANSMISSION** EN673:2011

Ug 1.0 W/m².K

**ACOUSTICS**

Acoustic simulated values - v1.0

|                          |
|--------------------------|
| Rw(C,Ctr) = 40(-1;-5) dB |
| STC (ASTM E413) = 40     |
| OITC (ASTM E1332) = 33   |

Report

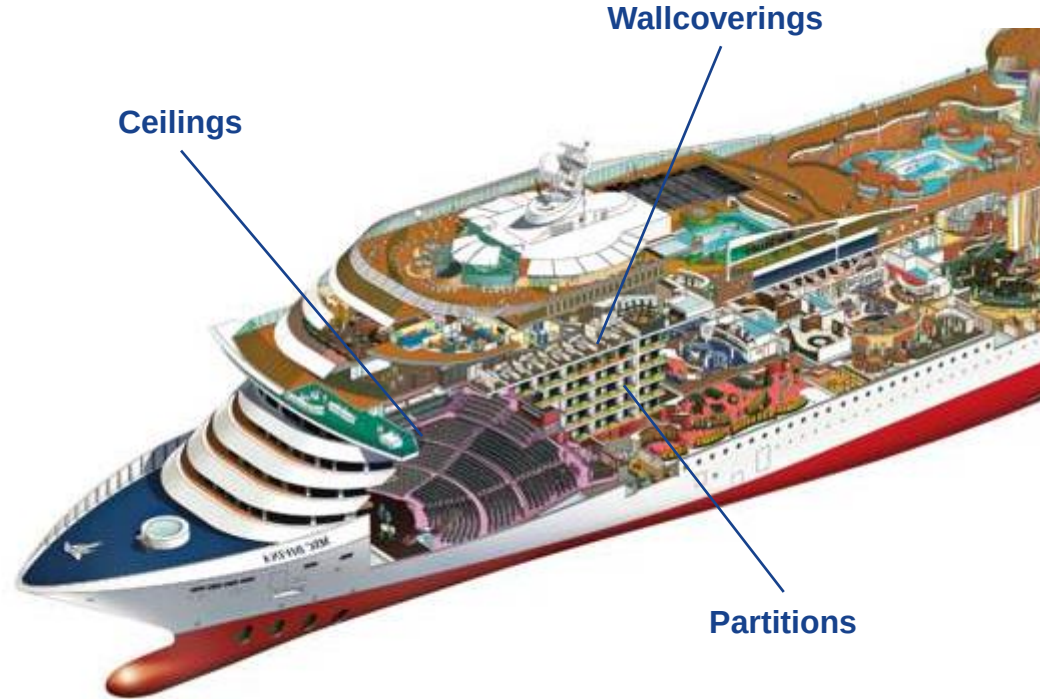
04

# INTERIOR OUTFITTING

# INTERIOR OUTFITTING

Gyproc, Ecophon / Clipso, Adfors

**SOLUTIONS FOR CEILINGS,  
PARTITIONS, AND WALLCOVERING,  
FOR ENHANCED FIRE PROTECTION,  
ACOUSTIC INSULATION, AND  
DURABILITY**



# INNOVATIVE STRECHED FABRICS

## POLYESTER KNITTED STRETCHED FABRICS COATED WITH PU: FOR ACOUSTIC AND DECORATIVE CEILINGS AND WALLS.

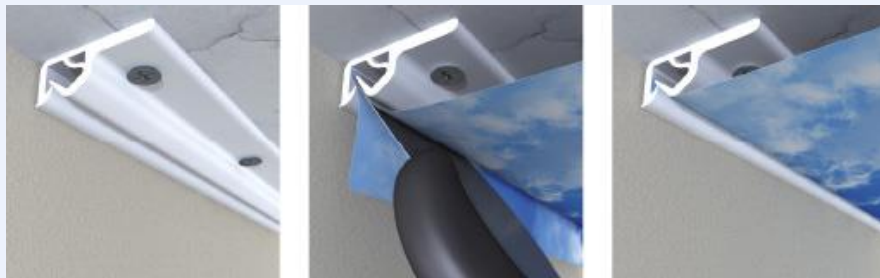
- Low weight of the fabric (about 250 gr / sqm).
- Perfect finish and custom-made solutions: colors, print, frames, backlit solution.
- Standard, acoustic and translucent are IMO certified.
- High resistance to both torsion and traction
- Profiles can be bended and can follow curves and shapes.
- Installation at room temperature and dry.
- Products with CE - A+ - GREENGUARD Gold - EUROFINs certifications



# INNOVATIVE STRECHED FABRICS: INSTALLATION

**INSTALLATION AT ROOM TEMPERATURE:  
FAST, CLEAN, WITH MINIMAL STRESS AND  
NUISANCE.**

- Fast and easy measurements allow you to draw up a quick estimate.
- Fast room temperature, dry, smell-free application with minimal waste.
- The installation is done in a one-time operation and does not generate any nuisance.
- No need to move furniture. The interior is not turned into a construction site for several days.



**Ideal for small and large areas.  
The principle of application is very simple!**



# GLASSFIBRE WALLCOVERING: NOVELIO

Adfors Novelio® glassfibre wallcoverings provide **long-lasting** wall protection with a distinctive aesthetic appeal.

- **PVC free\* & low fire reactiveness:**  
Euroclass B-s1,d0, on substrate A1 or A2;  
US ASTM E84 tunnel test: class A,
- **Commercial grade wallcovering:**  
Reinforcement solution to extend the life of the walls or ceilings (**up to 30 years**)
- **Improved internal air quality:**  
Breathable material which limits the formation of molds on the wall with very low VOC emissions (A+ certification)



# MAIN BENEFITS OF NOVELIO® FOR MARINE

- **Breathable:** suitable for high humidity areas, including coastal areas or wet rooms
- **PVC-Free** alternative for commercial wallcovering
- **Lower grammage** : Simplifying product application
- **Performance:** higher impact and abrasion resistance than traditional vinylic wallcoverings
- **Stripable** : Allows for simpler repair & dismantling
- **Lower carbon footprint** : verified EPD indicates a lower value than Vinylic non-woven alternatives
- **High ability to cover and hide surface imperfections** Including existing joints
- **Additional wall reinforcement:** Contributing to wall stability
- **High UV resistance** : ensuring long-lasting colours
- **Technical and R&D support:** to facilitate adoption



**OEKO-TEX**  
STANDARD 100



**VERY LOW EMISSION**  
of harmful components



**CLEAN AIR\*\***  
50% absorption of formaldehydes in the air for 10 years or more



**IMO CERTIFIED**  
*Wallcovering and glue*



**FIRE RESISTANCE**  
Euroclass B-s1,d0, on substrate A1 or A2; US ASTM E84 tunnel test: class A,

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**UNDER  
DEVELOPMENT....**

## GYPSUM BOARD: GLASROC MARINE

### NEW PLASTERBOARD THAT RAISES SHIPBUILDING TO THE NEXT LEVEL

Glasroc Marine is a non-combustible and water-resistant plasterboard specially developed for the construction of all types of interior enclosures (horizontal, vertical or decorative), as well as fire doors.

- Paperless Gypsum Board which combines & incorporates eGRG (Enhanced Glass Re-inforced Gypsum) Technology
- Gypsum core reinforced with glass fibers
- Pre-coated glass mats on the surface of the board



# GYPSUM BOARD: GLASROC MARINE

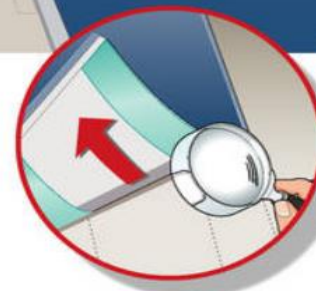
- Reduces passage of water to other vulnerable parts of structure
- Vapour permeable to allow the structure to breath
- Strong resistance to Water & Mould
- Fire resistant
- Lightweight
- Extremely flexible
- High impact resistance



# BIOLINK TAPES FOR FLOORING IN MASS TRANSPORTATION

## Not just a floor covering anymore...

- Bubble & Wrinkle-free pre and post lamination
- Moisture Resistance
- Quick Installation & Repair
- No Adhesive flow in storage or transport
- Clean removal & recyclability at mid-life refurbishment & EOL(end-of-life)
- Sustainable solvent-free UV cured adhesive technology





# TRANSLINK & NETLINIK TAPES



## Translink 130 H+

- All-rounder modified acrylic thin transfer tapes, with good overall resistance
- Optimal balance between adhesion and cohesion
- Suitable for most flooring types..

## Translink 200HP

- Plasticizer resistant formulation suitable for PVC flooring.

## Translink 8100 fr

- Flame-retardent adhesive



## Netlink 150 H+

- All-rounder modified acrylic scrim tape, with good overall resistance
- Optimal balance between adhesion and cohesion
- Good processability
- Suitable for most flooring types..

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# OUR SUSTAINABLE MARINE RANGE

# EXPLORE OUR RANGE OF SUSTAINABLE MARINE SOLUTIONS

## TECHNICAL INSULATION



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



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



High quality heat resistant and MED certified fabrics for shipyard welding applications

## FLOORING



Functional and durable lightweight flooring systems for marine and offshore

## WATER TREATMENT



**Saint-Gobain Performance Ceramics & Refractories**  
Ceramic micro-filtration membranes for marine wet scrubbers for water purification processes

## HIGH-PERFORMANCE GLASS



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



**Saint-Gobain Sully**  
Armoured glass for navy ships, offering thermal insulation, fire resistance and anti-radiation

## SURFACE SOLUTIONS



Abrasive solutions for manufacturing, repair and maintenance of composite, metal and wooden boats.  
Pastes and liquids for polishing marine coatings.

## VALVE PACKAGES



One-stop-shop wholesaler for pipes, fittings, valves, actuators and valve control systems for the shipbuilding and offshore industry

# EXPLORE OUR RANGE OF SUSTAINABLE MARINE SOLUTIONS

## LININGS AND CEILINGS

*\*under development*



Walls, partitions, linings and ceilings that deliver performance and sustainability for Marine and Offshore.



Innovative fabric for stretched ceilings, acoustic ceilings and wall panels to create optimal room acoustics for comfortable indoor environments



Decorative fiberglass wall coverings

## BONDING AND SEALING\*



### Saint-Gobain Tape Solutions\*

High performance protection, insulation and bonding tapes



### Saint-Gobain Adhesives & Sealants\*

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 for engine, ballast water, and structural applications



# THANK YOU

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