

CBG SeaPan WP 15/15

TDS No. 7800

Fire-resistant composite sandwich panel based on basalt and ceramic.

CBG SeaPan WP 15/15 offers completely new solutions to the manufacture of cabin walls in shipbuilding. The use of lightweight composite materials (e.g. with only approx. 5.7 kg/m² for a wall panel of fire class B-15, makes it possible to significantly reduce the total weight of a construction).

- ✓ 100% natural origin, chemically neutral
- ✓ non-combustible
- ✓ non-flammable
- ✓ no smouldering
- ✓ no smoke emission in case of fire
- ✓ antibacterial
- ✓ corrosion-resistant
- ✓ thermoresistant
- ✓ pressure-resistant
- ✓ vibration damping
- ✓ recyclable
- ✓ water repellent
- ✓ good air permeability



| Properties | Data |
|---|---|
| Description | Wall panel |
| Application area | e.g. production of cabin walls for shipbuilding, residential and office containers etc. |
| Surface density, [kg/m ²] | 5,7±10% with moisture content – max. 4 % |
| Gross thickness, [mm] | 15 ± 1 |
| Material | ceramic basalt fibre and glass fibre laminate, specific mineral wool (basalt fibres), inorganic fire protection adhesive |
| Core material density [kg/m ³] | 170 ± 15% |
| Compressive strength according EN 826 [kPa] | 100 ± 10 |
| Tensile strength according EN 1607 [kPa] | 30 ± 5 |
| Fire classification according IMO 2010 FTP - Code | B-15 |
| Inorganic content [%] | approx. 99 |
| Connection within construction | e.g. tongue and groove, mounting rails, screws and other mounting materials |
| Surface area * | Front side: ceramic reinforcement (option: coated with HPL/CPL decorative foil in various colours, flame retardant according to IMO 2010 FTP Code) Back side: ceramic basalt glass fibre plate |
| Usable width * | up to 1200 ± 1 mm |
| Length * | up to 3050 ± 2 mm |

Delivery

* - Various sizes and surfaces are possible on request

- ✓ Delivery on pallets wrapped with stretch film
- ✓ incl. connecting strip

Processing and storage

- ✓ The panel is ready for installation and requires no further processing
- ✓ Excellent mechanical properties of the panel allow screw and dowel-screw fasteners, both on flat and angle connections
- ✓ Workable with ordinary cutting/grinding tool
- ✓ The usual protective measures must be taken during processing. Gloves, respiratory protection and safety glasses are recommended. Please note the instructions for use "Handling mineral wool and insulation materials (glass wool, rock wool)" from BG Bau.
- ✓ Horizontal storage, e.g. on pallets, on a level surface, secure against slipping



Subject to modifications

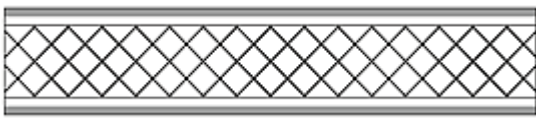
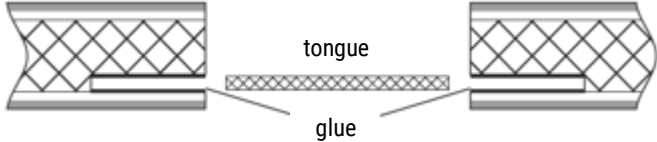
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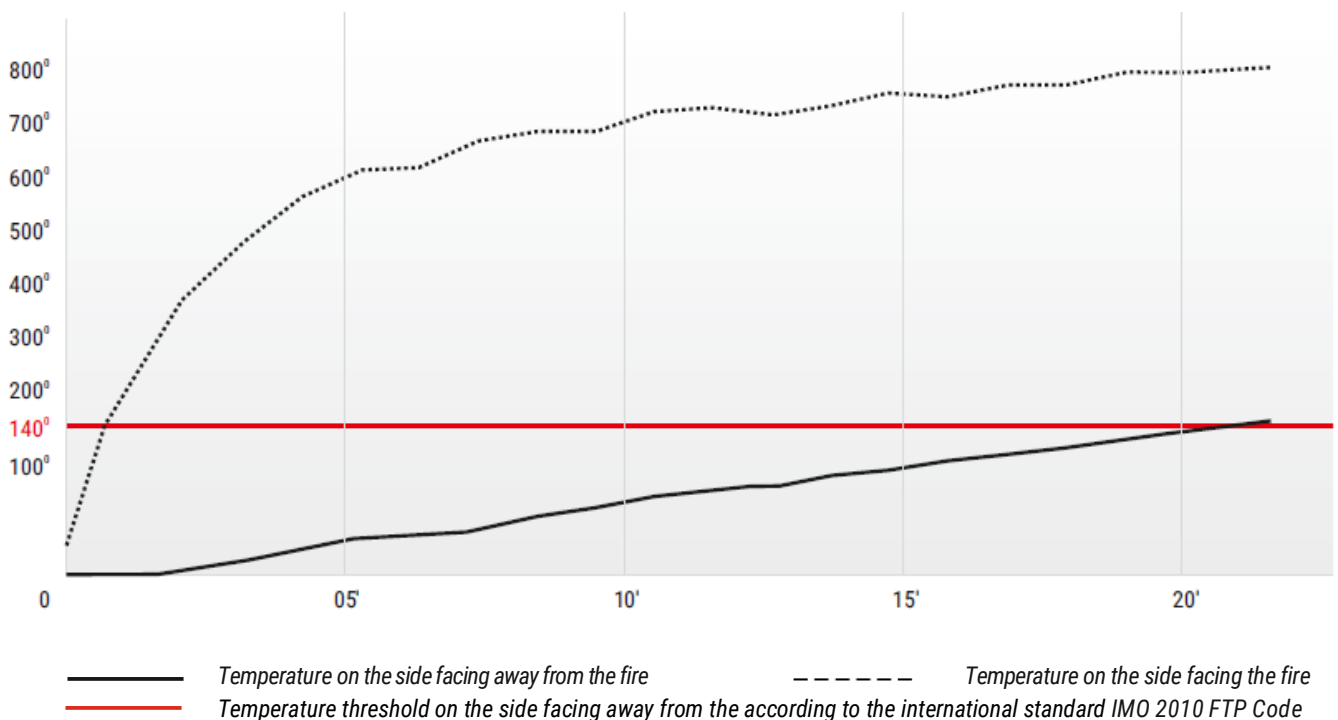
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Product layout plan

| Description | Layout drawing |
|---|--|
| Outer layers: Basalt glass ceramic plates in combination with inorganic non-flammable adhesive mass "LR Ceramatrix 01-50" |  |
| Calibrated mineral wool core | |
| "Tongue and groove" - for panels with a ceramic glass-basalt laminate surface (connecting strip: basalt ceramic composite) |  |

Fire protection tests



The essence of CBG-SeaPan is that the sandwich panel has a surface layer of multi-layer non-combustible basalt glass ceramic laminate on both sides. The core material consists of specially prepared mineral wool. All layers of this sandwich structure are bonded together by means of an inorganic non-flammable adhesive "LR Ceramatrix 01-50" with endothermic effect.

The use of light, durable, non-flammable materials makes it possible to halve the weight of the panel compared to conventional panels where sheet metal is used as an outer layer. The considered fire resistance class is not affected by the weight reduction.



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