

# CBG SeaPan WP 25/G

TDS No. 7803

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

**CBG SeaPan WP 25/G** offers completely new solutions to the manufacture of cabin walls in shipbuilding. The use of lightweight composite materials makes it possible to significantly reduce the total weight of a construction with e.g. only approx. 7.8 kg/m<sup>2</sup> for a wall panel of fire class B-15. A special feature of this panel is its **excellent sound insulation**.

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



Properties	Data
Description	Soundproof wall panel
Application area	e.g. production of cabin walls for shipbuilding, residential and office containers etc.
Surface density, [kg/m <sup>2</sup> ]	7,8 ± 10% with moisture content – max. 4 %
Gross thickness, [mm]	25 ± 1
Material	ceramic basalt fiber and glass fiber laminate, specific mineral wool (basalt fibers), inorganic fire protection adhesive
Sound insulation (DIN EN ISO 10140-2 (Rw)), [db]	45 (Cabin to Cabin) DIN EN ISO 10140-2, as of 02/03/2016, Acoustic laboratory ift Rosenheim GmbH
Core material density [kg/m <sup>3</sup> ]	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 (DMT Test Report), Certification MED/3.11a, Modul B, DNV GL Certificate number: MEDB00001JS
Inorganic content [%]	approx. 99
Connection within construction	e.g. tongue and groove, mounting rails, screws and other mounting materials, for panels with a ceramic glass-basalt laminate surface. "Lock" - for panels with a galvanized steel surface (see back page)
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 fiber 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 to use 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



Made in Germany



Patent inside



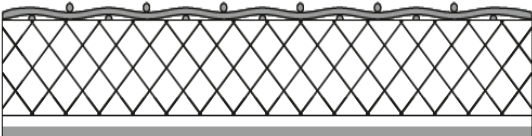
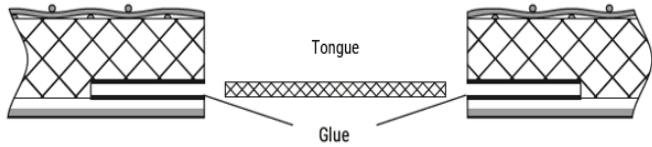
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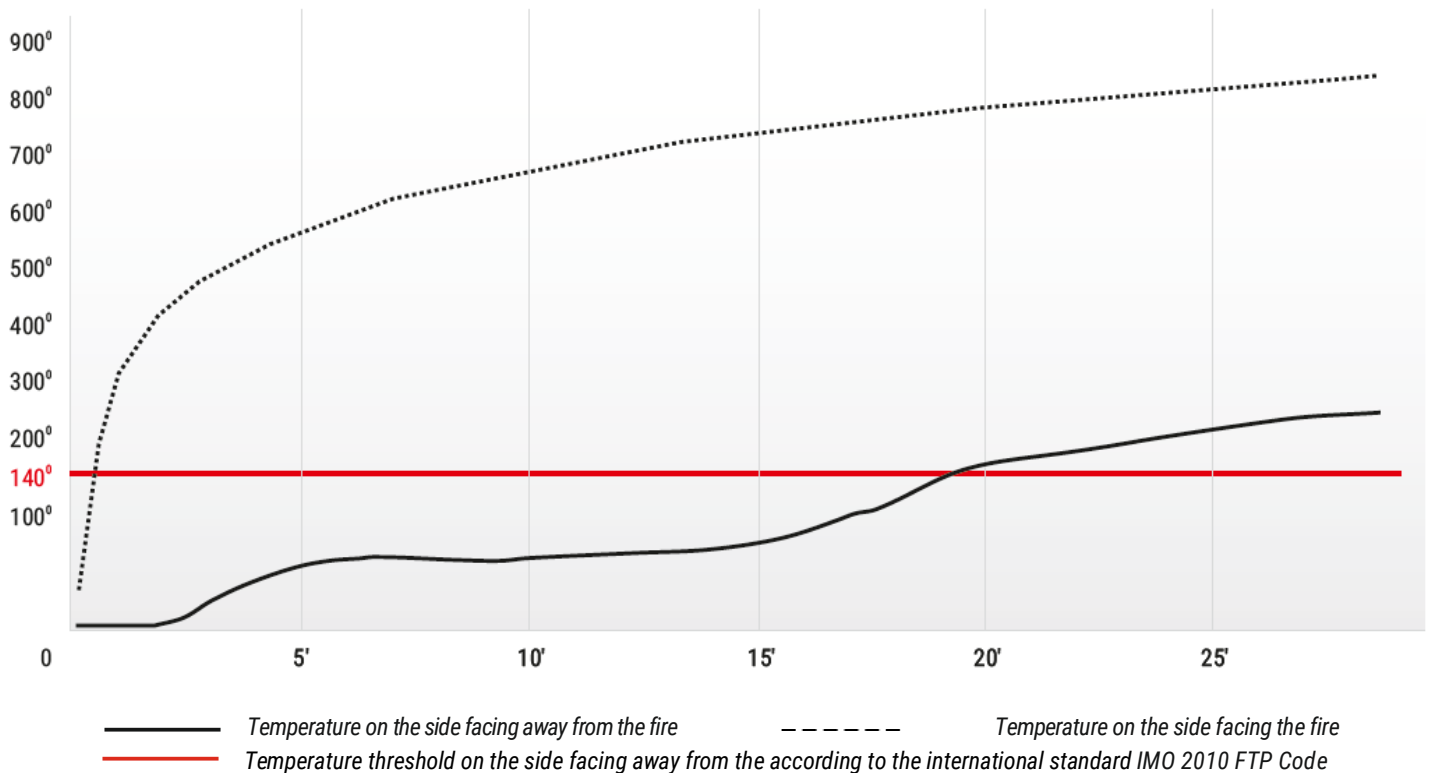
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<b>Product structure</b>	
<b>Description</b>	<b>Layout drawing</b>
Front side layer: Basalt glass ceramic plates in combination with inorganic non-flammable adhesive mass "LR Ceramatrix 01-50"	
Calibrated mineral wool core	
"Tongue and groove" - for panels with a ceramic glass-basalt laminate surface  (connecting strip: basalt ceramic composite)	

### Fire protection tests







The essence of CBG-SeaPan-G is that the sandwich panel contains two surface layers: the front surface layer is made of non-flammable composite laminate and the rear surface layer is made of non-flammable composite grid laminate with an open structure. Between the surface layers there is a core material of specially prepared mineral wool. All layers of this sandwich structure are bonded together by means of an inorganic flame retardant adhesive "LR Ceramatrix 01-50" with endothermic effect.

The use of lightweight composite materials makes it possible to significantly reduce the total weight of a construction. A special feature of these panels is the excellent sound insulation.



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