

CBG-SeaPan-OEM-57/150

TDS-No. 8400

Industrial insulation panel as composite double core panel on basalt and ceramic basis.

CBG-SeaPan-OEM-57/150 offers completely new solutions for heat, sound and fire protection application.

The use of lightweight composite materials makes it possible to reduce the total weight of a construction considerably.

- ✓ 100% of natural origin, chemical neutral
- ✓ corrosion-resistant
- ✓ non-flammable
- ✓ non-combustible
- ✓ resistant to humidity
- ✓ antibacterial
- ✓ recyclable
- ✓ no smouldering
- ✓ dimensionally stable



Properties	Data
Application area	e.g. heat, sound and fire protection in industrial processing and shipbuilding
Weight per unit area, [kg/m ²]	27,47 ± 10%
Gross thickness, [mm]	57 ± 1
Density * [kg/m ³]	482 ± 10% Double Core (core material: 170)
Material	ceramic basalt fibre and glass fibre laminate, specific mineral wool (basalt fibres), inorganic fire protection adhesive mass LR Ceramatrix 01-50
Compressive strength according to EN 826	Not measured (core material: 100 ± 10 kPa)
Tensile strength according to EN 1607	Not measured (core material > 30 kPa)
Corematerial: Mineral wool / Basalt fibre	Certificate number "Module B" by TÜV Nord: M18028, valid until 07.07.2022 [EC type certificate (Module B) of marine equipment according to Directive 2014/90/EU in connection with Directive (EU) 20174/306 - Item No. "MED/3.13 Non-combustible materials")] Module D: M18027 valid until 13.11.2023
Fire protection adhesive mass: LR Ceramatrix 01-50	Certificate number "Module B" by TÜV NORD: M18029, valid until 07.07.2022 EC type-examination certificate (module B) of marine equipment according to Directive 2014/90/EU in connection with Directive (EU) 20174/306 - Item No. "MED/3.13 Non-combustible materials")] Module D: M18027 valid until 13.11.2023
Surface areas *:	basalt glass ceramic plate
Fire resistance	150 minutes (Internal testing for fire resistance based on ETK DIN EN 1363-1 and IMO 2010 FTP Code Part 3) (Internal audit report No.: 821-18-MKB5-CBG of 15.06.2018)
Inorganic content [%]	approx. 99
Connections within the construction	e.g. tongue and groove, mounting rails, screws and other mounting materials
Useful width x Length	up to 1200 ± 3050 mm

Delivery

* - Various sizes and surfaces are possible on request

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



Subject to modifications

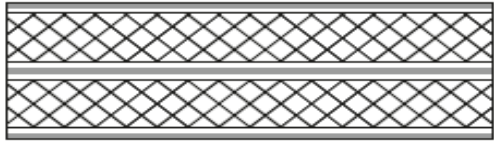
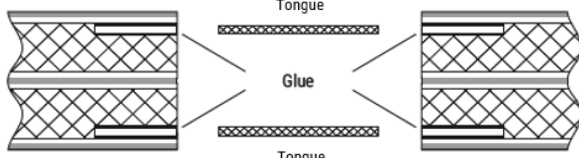
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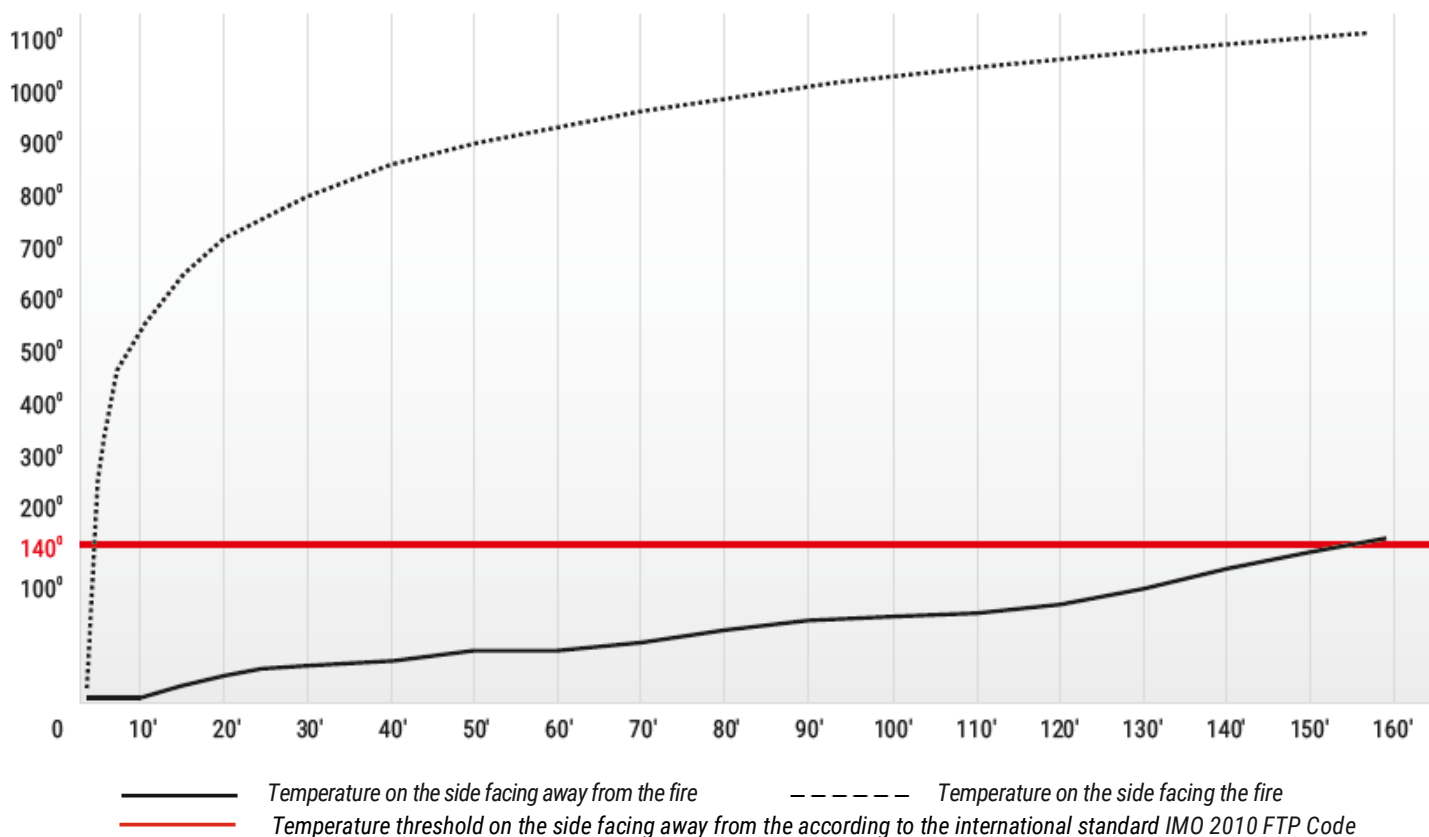
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Product structure	Layout drawing
<p>Description</p> <p>Outer layers: Basalt glass ceramic plates in combination with inorganic non-flammable adhesive mass "LR Ceramatrix 01-50"</p>	
<p>Calibrated mineral wool core</p>	
<p>Internal layer: basalt glass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

Fire protection tests



The essence of CBG OEM Double Core is that the sandwich panel contains two surface layers and an internal layer of non-combustible composite laminate, with two equal-sized cores of specially prepared mineral wool placed between them. The surfaces on the front and back and the internal layer consist of multi-layer basalt glass ceramic laminates. All layers of this sandwich structure are bonded together by the inorganic flame retardant adhesive "LR Ceramatrix 01-50" with endothermic effect. The outer layer can be provided with a decorative coating in the form of a reinforced ceramic glaze.

Due to the use of light and durable, non-combustible materials, it is possible to reduce the weight of the panel by half compared to traditional panels.

By increasing the number of internal filler layers in the panel, the fire resistance of the panel can be increased to the required class.



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