Fire protection boards

SILCA® fire protection boards

170SB, 200, 250SB, T300, T500

SILCA® fire protection boards are homogeneous insulation boards based on porous, lightweight calcium silicate. They are available in large sizes, are dimensionally stable and self-supporting.

SILCA® fire protection boards have obtained declarations of performance according to Annex III of the Construction Products' Regulations (EU) No. 305/2011 and bear the CE-marking.

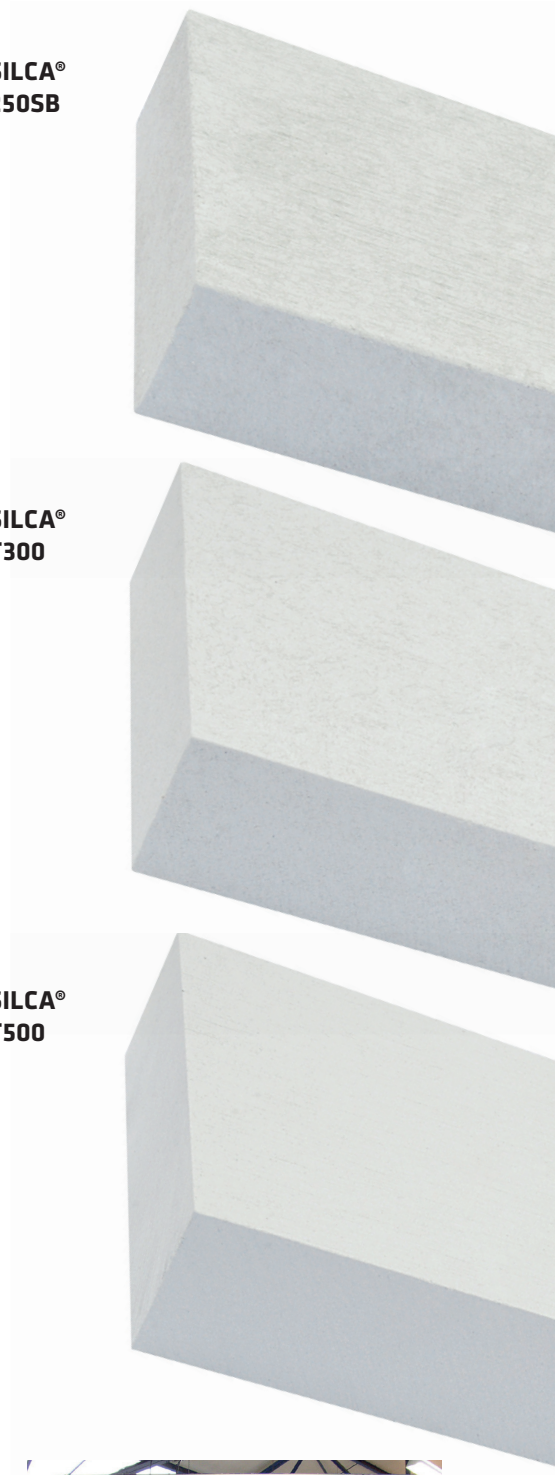
SILCA® fire protection boards are physiologically safe and have been classified as environmentally compliant construction material by the Arbeitsgemeinschaft Umweltverträgliches Bauprodukt e.V. The boards are disposed of as construction waste.

SILCA® 200, SILCA® 170SB, SILCA® 250SB, SILCA® T300 and SILCA® T500 are fire protection boards approved for the use in shipbuilding. Furthermore, these boards have proven their effectiveness in a large variety of applications as fire protection doors, fire protection gates, safety cabinets and fire protection containers.

Processing
The material can be processed with standard woodworking machines. For machining we recommend the use of a dust extraction system. On request we can deliver blanks finished to your specifications.

SPECIAL FEATURES

- large-size up to 3.000 x 1.250 mm
- environmentally compliant construction material
- easy processing with screws, clamps or adhesive



SILCA® 250SB

SILCA® T300

SILCA® T500

Fire gate with SILCA® fire protection boards

SILCA® fire protection boards

170SB, 200, 250SB, T300, T500

SILCA® fire protection boards		Method	Unit	SILCA® 170SB	SILCA® 200	SILCA® 250SB
Certificate				Shipbuilding		
Certificate office				BG Verkehr - Ship Safety Division		
European notified body				Identification number 0736		
Manufacturer (applicant)				Calsitherm Silikatbaustoffe GmbH		
Address				Hermann-Löns-Straße 170 D - 33104 Paderborn		
EC-Type Examination (Module B) Certificate						
Certificate No.				107.082	107.063	107.055
As per Marine Equipment Directive (MED)				Directive 2014/90/EU, as last amended by Commission Implementing Regulation (EU) 2022/1157		
Equipment (Number & Item designation)				MED/3.13 Non-combustible materials		
Specified standard				IMO Resolution MSC.307(88)-(FTP-Code 2010) Annex 1, Part 1		
CE-label according		EN 14306				
Inspection body				MPA NRW	MPA NRW	MPA NRW
Test report number				420002242 10-1-1	420002242 10-1-2	420002242 10-2-4
Bulk density (± 10%)		EN 1094-4	kg/m³	180	210	250
Reaction to fire		EN 13501		A1		
Porosity		EN 1094-4	%	93	93	90
Compression strength		EN 826	MPa	1.6	1.8	1.8
Flexural strength		EN 12089	MPa	0.4	0.4	0.5
Thermal conductivity λ at t_m	200 °C	EN 12667	W/(m K)	0.07	0.07	0.08
	400 °C			0.10	0.10	0.10
	500 °C			0.12	0.12	0.12
	800 °C			0.25	0.25	0.18
Dimensions						
Standard sizes	Length x width		mm	1,250 x 1,000 / 1,500 x 1,250 / 3,000 x 1,250		
	Thickness		mm	25/30/40/50/60/65/70/75/80/90/100		
Tolerances (unpolished)	Length		mm	0/+30; *± 2		500/1,000*/3,000
	Width		mm	0/+10		1,250
	Thickness		mm	≤ 50 ± 2; > 50 -3/+2		
Other dimensions are available on request (maximal 3,000 x 1,250).						

The properties mentioned are typical values obtained according to the listed methods. Product variations have to be taken into account. The data do not represent guaranteed properties and cannot be used for any warranty claim. Data are subject to technical modifications.

silca refractory solutions

SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH
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SILCA® fire protection boards

170SB, 200, 250SB, T300, T500

SILCA® fire protection boards		Method	Unit	SILCA® T300	SILCA® T500
Certificate				Shipbuilding	
Certificate office				BG Verkehr - Ship Safety Division	
European notified body				Identification number 0736	
Manufacturer (applicant)				Calsitherm Silikatbaustoffe GmbH	
Address				Hermann-Löns-Straße 170 D - 33104 Paderborn	
EC-Type Examination (Module B) Certificate					
Certificate No.				107.048	107.094
As per Marine Equipment Directive (MED)				Directive 2014/90/EU, as last amended by Commission Implementing Regulation (EU) 2022/1157	
Equipment (Number & Item designation)				MED/3.13 Non-combustible materials	
Specified standard				IMO Resolution MSC.307(88)- (FTP-Code 2010) Annex 1, Part 1	
CE-label according		EN 14306			
Inspection body				MPA NRW	MPA NRW
Test report number				420002242 10-4-1	420002465 14-1-1
Bulk density (± 10%)		EN 1094-4	kg/m³	340	500
Reaction to fire		EN 13501		A1	
Porosity		EN 1094-4	%	87	85
Compression strength		EN 826	MPa	2.8	5.0
Flexural strength		EN 12089	MPa	1.2	2.0
Thermal conductivity λ at t_m	200 °C	EN 12667	W/(m K)	0.09	0.15
	400 °C			0.10	0.18
	500 °C			0.13	0.18
	800 °C			0.19	0.32
Dimensions					
Standard sizes	Length x width		mm	1,250 x 1,000 / 1,500 x 1,250 / 3,000 x 1,250	
	Thickness		mm	25/30/40/50/60/65/70/75/80/90/100	
Tolerances (unpolished)	Length		mm	0/+30; *± 2	500/1,000*/3,000
	Width		mm	0 / +10	1,250
	Thickness		mm	≤ 50 ± 2; > 50 -3/+2	
Other dimensions are available on request (maximal 3,000 x 1,250).					

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silca
refractory solutions

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