

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 1,500 x 1,250 mm
- environmentally compliant construction material
- easy processing with screws, clamps or adhesive

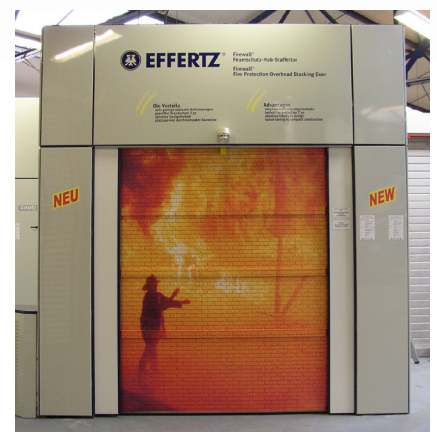
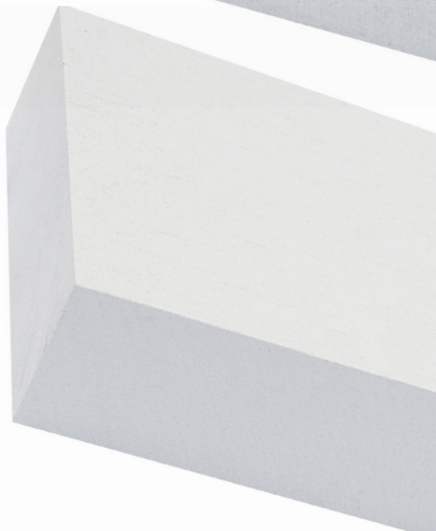
**SILCA®  
250SB**



**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) 2017/306			
Equipment (Number & Item designation)			MED/3.13 Non-combustible materials			
Specified standard			IMO Resolution MSC.307(88)-(FTP-Code 2010) Annex 1, Part 1			
Quality Assurance System Certificate (in conformity with Module D)						
Certificate No.			SEE18008			
As per Marine Equipment Directive (MED)			Directive 2014/90/EU			
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 ( $\pm 10\%$ )		EN 1094-4	kg/m <sup>3</sup>	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 $\lambda$ at $t_m$		200 °C	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		Tolerances				
		Length x width	$\pm 3$	mm	1,500 x 1,250 1,250 x 1,000 1,250 x 500 1,000 x 625	
		Thickness	$\pm 1$	mm	25/30/40/50/60/65/ 70/75/80/90/100	
Surfaces machined.						
Other dimensions are available on request.						

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® 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) 2017/306		
Equipment (Number & Item designation)			MED/3.13 Non-combustible materials		
Specified standard			IMO Resolution MSC.307(88)- (FTP-Code 2010) Annex 1, Part 1		
Quality Assurance System Certificate (in conformity with Module D)					
Certificate No.			SEE18008		
As per Marine Equipment Directive (MED)			Directive 2014/90/EU		
CE-label according		EN 14306			
Inspection body			MPA NRW	MPA NRW	
Test report number			420002242 10-4-1	420002465 14-1-1	
Bulk density ( $\pm 10\%$ )		EN 1094-4	kg/m <sup>3</sup>	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 $\lambda$ at $t_m$		200 °C	EN 12667	W/(m K)	0.09
		400 °C			0.10
		500 °C			0.13
		800 °C			0.19
Dimensions					
Standard sizes		Tolerances			
		Length x width	$\pm 3$	mm	1,500 x 1,250 1,250 x 1,000 1,250 x 500 1,000 x 625
		Thickness	$\pm 1$	mm	25/30/40/50/60/65/ 70/75/80/90/100
Surfaces machined.					
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