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# SILCA<sup>®</sup> HEAT 600C

Calcium silicate construction board for fireplaces



**Brand-new!**  
Innovative construction  
board for fireplaces,  
for some like it hot

# SILCA® HEAT 600C



## SILCA® HEAT 600C construction board for fireplaces

**SILCA® HEAT 600C** is an innovative board for the construction of fireplaces. It combines the natural desire for thermal radiation in the operation of domestic fireplaces with the modern requirements on a construction material for easy and fast assembling of fireplaces.

**SILCA® HEAT 600C** is a high temperature resistant hybrid material composed of calcium silicate and carbon. Due to the high proportion of graphite the construction board has excellent heat conducting properties for the lining of fireplaces.

**SILCA® HEAT 600C is not an insulation board!**

**SILCA® HEAT 600C** meets the requirements of the technical rules for the stove and air heating construction TR-OL, according to section 3.1 as construction material and component in the heating chamber resp. convection chamber. **SILCA® HEAT 600C** will also fulfill the requirements according to DIN EN 14306.

SILCA® 250KM calcium silicate insulation boards have proved to work very well in the insulation of the mounting surface as well as in the construction of domestic fire places. The easy and fast handling of the calcium silicate insulation board allows a safe and economic assembling of the fireplace. The design options are nearly unlimited. The high quality as insulation board is the only feature that involves certain natural limitations regarding the heat radiation in the room of the fireplace.

Our newest SILCA product innovation shows that our customers' desires and suggestions could be realized and even surpassed. Our longtime experience as only German producer of calcium silicate boards for the application in domestic fireplaces enabled us to develop the construction board for fireplaces **SILCA® HEAT 600C**.

The European Patent Office issued patent number EP251634781 for our innovation.

**SILCA® HEAT 600C** is certified by the Materialprüfungsamt NRW (Materials Testing Office of North Rhine Westphalia).

The treatment of **SILCA® HEAT 600C** is easy, fast and safe. The solid self-supporting construction boards for fireplaces can be treated with standard wood machining tools and bonded with SILCACON adhesive. Countersunk screws can be used without pre-drilling, this multiplies the possibilities of assembling. According to the customers' desires **SILCA® HEAT 600C** construction boards for fireplaces may be plastered or decorated with natural stone or stove tiles after mounting.

SILCACON lime plaster and SILCACON smoothing lime can be used for plastering of the **SILCA® HEAT 600C** construction board for fireplaces. Due to the high temperatures SILCACON first coat shall not be applied. However, a pre-treatment of the board with SILCADUR HTI impregnation is recommended.

The plaster is reinforced with heat-resistant SILCATEX-SE glass mesh fabric.

**SILCA® HEAT 600C** is a construction board for fireplaces of the newest generation. Being applicable up to 1000°C it convinces with a light weight and at the same time high compressive strength and excellent edge stability. The radiant heat is given off to the room in a comfortable and homogeneous way. **SILCA® HEAT 600C** is thermal shock resistant, precisely treatable and despite its good thermal conductivity has only a very low thermal expansion. Of course the construction board for fireplaces is free of asbestos. Cuttings and residues can be disposed of as building waste.



Please have a look at our video at YouTube (search term: SILCAHEAT):

[https://www.youtube.com/watch?v=\\_yvzXDSlygc](https://www.youtube.com/watch?v=_yvzXDSlygc)

SILCACON adhesive



SILCADUR HTI impregnation



SILCATEX-SE glass mesh fabric

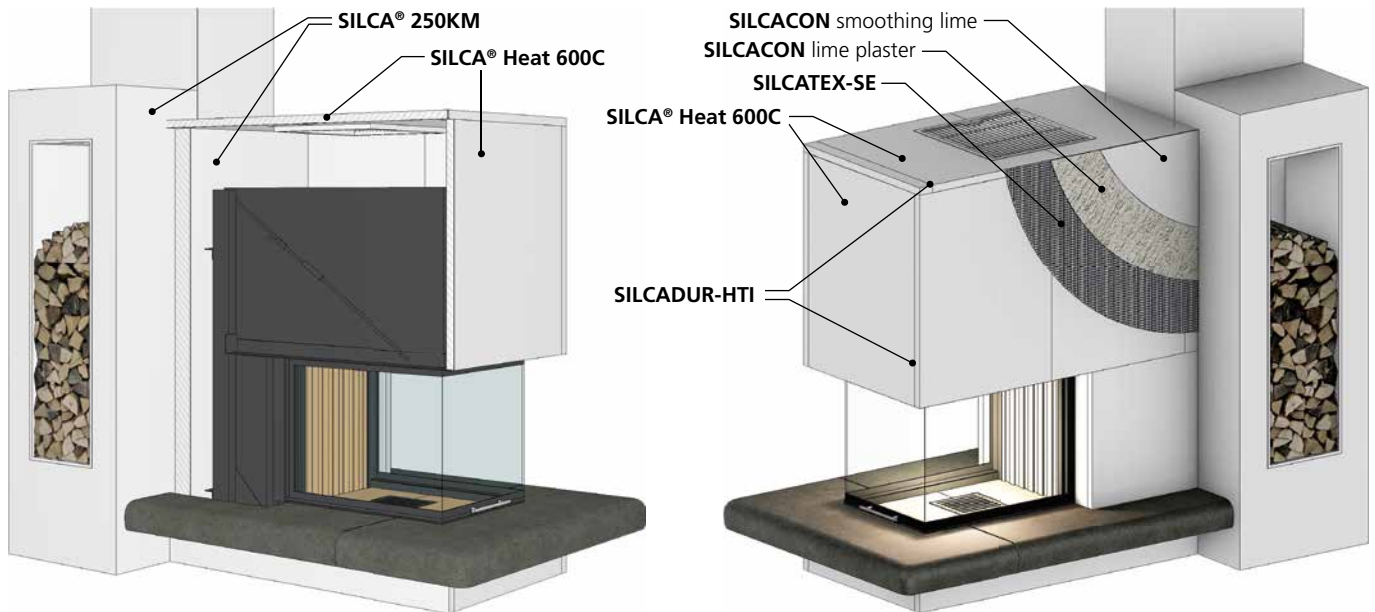


SILCACON lime plaster – natural white



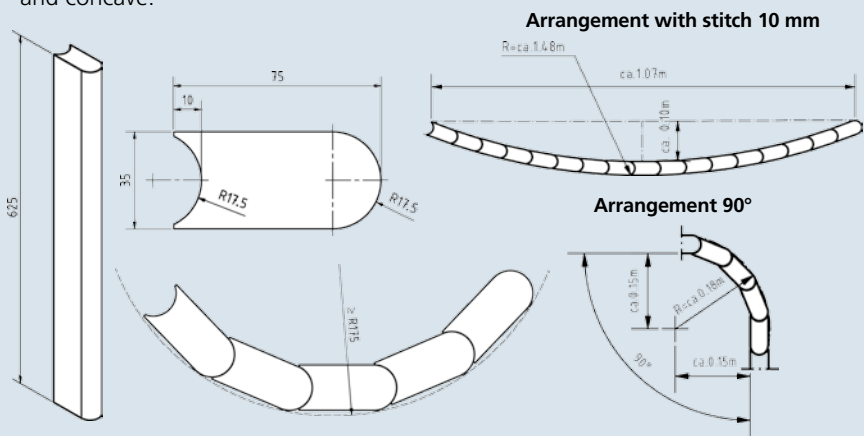
SILCACON smoothing lime – natural white





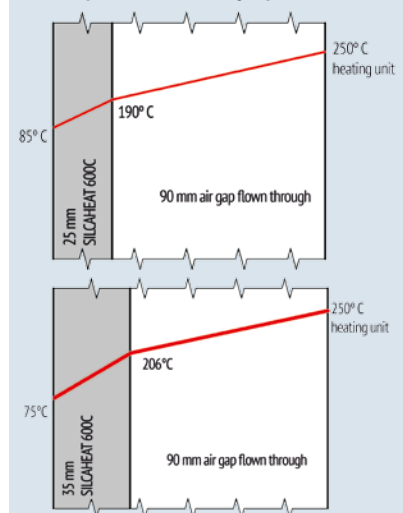
### SILCA® HEAT 600C R75 Radius-moulded part (Possibilities of arrangement)

The arrangement as radius is also possible. For this purpose we offer the **SILCA® HEAT 600C R75** moulded part. The precise cuts in an adequate board width of 625 mm facilitate the arrangement even with different radii, both, convex and concave.



### Temperature profile

#### Examples in stationary operation



### Technical Data

Product standard	DIN EN 14306
Bulk density	650 kg/m <sup>3</sup>
Reaction to fire	Non-combustible A1
Temperature limit of application	1,000 °C
Compressive strength	7.0 MPa
Bending strength	3.0 MPa
Thermal conductivity	300 °C – 800 °C ≈ 0.2 – 0.3 W/mK
Thermal expansion at 500 °C	– 0.03%
Dimensions	1,000x625, 1,250x500, 1,250x1,000 mm
Thickness	25 and 35 mm

### Your advantages at a glance

- Extremely light
- Optimum stability
- Very good dimensional accuracy
- Good radiation properties
- Extremely low thermal expansion
- Non-combustible
- Self-supporting and dimensionally stable
- Not soluble in water – suitable for wet and dry cutting
- Assembly with adhesive and/or screws
- Enormous saving of time on assembly
- Optimum material combination with SILCA® 250KM
- Environmentally compatible

**MADE IN GERMANY**

**SILCA® Heat 600C construction board for fireplaces and SILCA® 250 KM insulation board. Modern materials for successful construction of fireplaces.**

**Please also pay attention to our brochure SILCA insulating material!**



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## The production plant in Paderborn-Sennelager



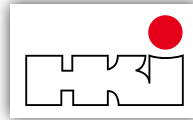
SILCA insulation boards are produced by Calsitherm Silikatbaustoffe GmbH in Paderborn-Sennelager.

The products are commercialized by our subsidiary company SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH.

With more than 30 years of experience in the production of calcium silicate boards of different qualities and for multiple applications in industry and preventive fire protection Calsitherm is one of the leading producers of light and heavy calcium silicate and at the same time the only producer with a production made in Germany.

Flexibility and prompt reaction to our customer's requirements are the characteristics of Calsitherm. Our excellent quality together with the corresponding external supervision and the CE-certification for the SILCA boards guarantee our customers a very high standard of security.

SILCA is member of



Your retailer in charge

For detailed information and detailed technical data sheets please see our homepage or our complete catalogue.

The properties indicated in this brochure are typical values obtained in serial testing and determined by acknowledged test methods. Product-specific spreading of results should be taken into account. The details provided in this brochure do not represent guaranteed properties and cannot be used for any warranty claim. The information is subject to technical modifications.

**SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH**

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SILCA® HEAT 600C



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