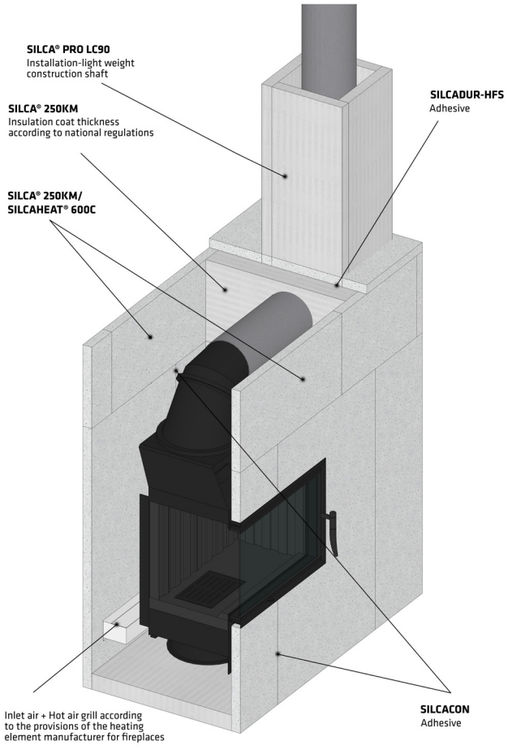
SILCAHEAT® 600C



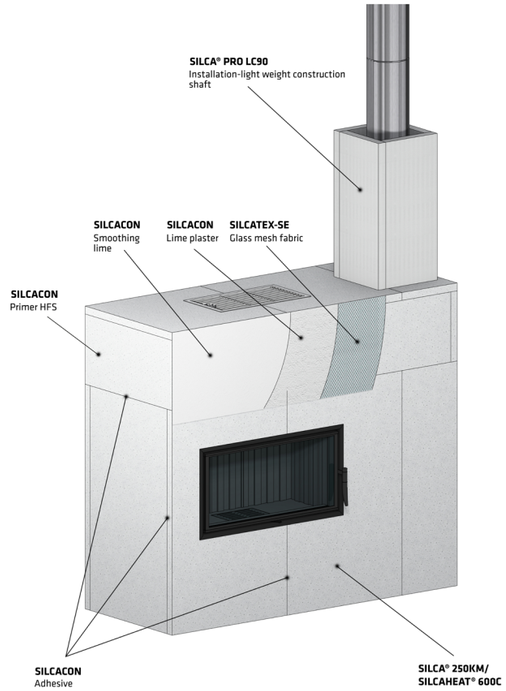
SILCAHEAT® 600C is a high temperature resistant hybrid material composed of calcium silicate and carbon. The high graphite content provides excellent heat conducting properties to the construction board while using for lining the fireplaces. **SILCAHEAT® 600C** is not an insulation board! **SILCAHEAT® 600C** meets the requirements of the technical rules in the Stove and Air Heating Construction TR-OL, according tosection 3.1 as substance / construction material and component in the heating chamber or convection chamber. **SILCAHEAT® 600C** meets the requirements in accordance with DIN EN 14306 n.

SILCA® 250KM Calcium silicate insulation boards have proven their worth when used as insulation for adjoining areas, but also as a construction board for domestic fireplaces. The easy and quick handling of calcium silicate board enables a safe and economical installation of the fireplace. The design options are almost unlimited. Only the high quality of the insulation board brings natural restrictions in terms of heat radiation to the room where the furnace is installed.



The product innovation from SILCA shows that: our customers' desires and suggestions could be realised and even surpassed. Our many years of experience as the only German manufacturer of calcium silicate boards for the application in domestic fireplaces enabled us to develop the construction board for fireplaces **SILCAHEAT® 600C**. The European Patent Office issued patent number EP251634781 for our innovation. **SILCAHEAT® 600C** is certified by the Materials Testing Office of North Rhine Westphalia (NRW).

The processing of **SILCAHEAT® 600C** is easy, fast and safe. The solid self-supporting construction boards for fireplaces can be treated with standard wood machining tools. **SILCACON Adhesive** is used for bonding. Countersunk screws can be used without pre-drilling, this extends the possibilities of installation many times over. According to customers' desires **SILCAHEAT® 600C** construction boards for fireplaces may be plastered or decorated with natural stone or stove tiles after installation.



SPECIAL PROPERTIES

- Extremely light, optimal strength
- Good storage capacity, very good dimensional accuracy
- Good radiation properties, extremely low thermal expansion
- Non-flammable
- Self-supporting and dimensionally stable, not soluble in water - suitable for wet and dry cutting, installation with adhesive and/or screws
- Huge time-saver when building an optimal material compound with SILCA® 250KM

SILCACON Plaster and **SILCACON Smoothing lime** can be used for plastering of **SILCAHEAT® 600C** construction board for fireplaces. The plaster is reinforced with heat-resistant **SILCATEX-SE Glass mesh fabric**.

SILCAHEAT® 600C is a newest generation construction board for fireplaces. Can be used up to 1000°C, it impresses with its low weight, high compressive strength and excellent edge stability. The radiant heat is pleasantly and homogeneously emitted in the installation room. **SILCAHEAT® 600C** is resistant to thermal shock, can be processed precisely and, despite its good thermal conductivity, has only a very low thermal expansion. Of course, the construction board for fireplaces is asbestos-free. Scraps and leftovers can be disposed of as construction waste.

Technical data SILCAHEAT® 600C	
Product norm	DIN EN 14306
CE Certificate	0432-CPR-00697-01
Bulk density	650 kg/m³
Fire performance	Euro class A1
Application temperature	1,000°C
Compressive strength	7.0 MPa
Flexural strength	3.0 MPa
Thermal expansion at 500 °C	-0.03%
Standard size in mm	1000x625; 1250x500;
Standard thickness in mm	1250x1000
	25 and 35

Temperature profiles

