

SILCAHEAT® 600C

Issue: November 2024 (subject to technical changes)

1/2

User Information

1. General Situation / Introduction:

SILCAHEAT® 600C is not an insulation board!

SILCAHEAT® 600C is a high temperature resistant hybrid material composed of calcium silicate and carbon. The environmentally compatible construction board for fireplaces has very good radiation properties and only a very low thermal expansion at the same time. It is self-supporting, dimensionally stable and easy to process. Due to its excellent thermo-conductive properties it is applied in the lining and construction of fireplaces.

SILCAHEAT® 600C fulfills the requirements according to DIN EN 14306 as well as according to the technical rules for the stove and air heating construction TROL for the lining of fireplaces.

National legal regulations have to be respected in the construction of fireplaces.

2. Processing of SILCAHEAT® 600C:

SILCAHEAT® 600C can be treated with standard wood machining tools, e.g. hand saw, jigsaw, portable circular saw or even with a wet saw. In general, it can be treated like the well-known **SILCA 250KM** insulation board. Both products are physiologically safe. However, for machine processing we recommend an extraction removal by suction.

3. Application of SILCAHEAT® 600C:

The construction board for fireplaces is used for the lining of the constructive and decorative area if the exterior surface of the fireplace shall give off heat to the room, including radiant heat. For the distance between lining and fireplace please refer to the assembly instructions of the producer of the heat / fireplace insert. Specific supply / recirculation air grids have to be installed in the prescribed size. **SILCAHEAT® 600C** is produced in a thickness of 25 mm and 35 mm.

SILCACON adhesive is used for bonding. The surfaces have to be sufficiently wetted before bonding. An additional fixation of the construction board for fireplaces with screws is recommended.

As treatment before plastering or further decoration e.g. with stove tiles or natural stone we suggest **SILCACON primer HFS**.

We recommend **SILCACON smoothing lime** for decorative design with plaster. The high-quality stove plaster has been modified and is applied as a two-layer plaster with a layer thickness of 1 mm each. The first layer is reinforced with **SILCATEX SE Glass mesh fabric**. Once the first layer has dried, the second layer is applied for the surface finish.

SILCACON smoothing lime plaster results in a smooth, light-coloured and firm surface and serves as a base for following paint coats with mineral paints in accordance with DIN 18363.2.4.1. or for **SILCACON painting plaster**. For preparation, the content of the bag is mixed homogeneously in approx. 7 litres of cold and clean water using a mixing device. Depending on the ambient temperature, the processing time is up to approx. 2 hours. At a layer thickness of 1 mm, approx. 1 kg of **SILCACON smoothing lime plaster** is required per m². If desired, the surface can be sanded after complete drying.

You will find the detailed processing instructions of the individual products on the corresponding packaging, on request we will also send them to you.

With **SILCA HEAT 600C R75** radius-moulded parts the arrangement in convex and concave radii is also possible. The individual moulded parts are bonded with **SILCACON adhesive**. The radii can be individually aligned.