MAKING THE FIREPLACE SIDEWALL IN SUPER-ISOL SYSTEM

Fig. 1. Prepare the required tools.
Fig. 2. Required material: Super-Isol board (50 mm recommended), Skamolex Glue for joining, decorating facing (cleaved sandstone), any elastic glue for connecting the facing with the Super-Isol boards, grounding preparation.

Fig. 3. Draw the cutting lines.
Fig. 4. Cut out the elements of a sidewall with a jigsaw.

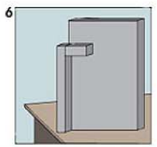


Fig. 5. Connect the element of the wall with the glue according to the instructions on the label .
Fig. 6. Ground the construction before sticking to the facing.

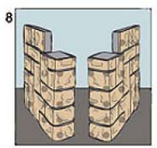


Fig. 7. Stick the facing on the Super-Isol boards using elastic glue.
Fig. 8. The sidewalls made of Super-Isol boards need no additional insulation.

Building Instructions

INSTALLING THE SKAMOLEX HEAT-RESISTANT PANELS

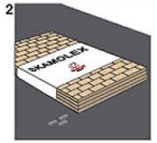


Fig. 1 Prepare the required tools.
Fig. 2 required material: SKAMOLEX heat-resistant panels, a set of installation clamps.

Fig. 3 Measure the insert and draw the cutting lines.
Fig. 4 Cut the panels according to the measurements of the insert.

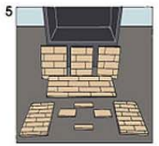


Fig. 5 Insulation elements: the bottom, the sidewalls, the back side and the deflector.
Fig. 6 Begin the installation with lining the bottom of the hearth with VIP-12.

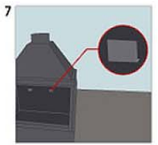


Fig. 7 Holder at the backside of the insert for fixing the back wall insulation.
Fig. 8 Install the back wall. At the bottom, fix it behind the bottom panel and with the clamps at the top.

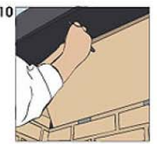


Fig. 9 Install the sidewalls.
Fig. 10 Install the deflector. Lean it against the back wall and a steel peg.

BUILDING THE FIREPLACE IN SUPER-ISOL SYSTEM

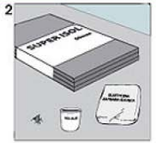
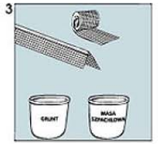


Fig. 1 Prepare the required tools.
Fig. 2 Required material: Super-Isol board (30 mm recommended) SKAMOLEX Glue for joining, screws for wood (length = 2x used Super-Isol thickness, any elastic glue for attaching the Super-Isol boards to the wall behind the fireplace.



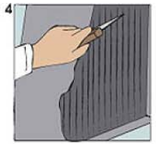


Fig. 3 Additional finishing materials: joining tape, aluminium angle with a net, grounding preparation, filling pulp.
Fig. 4 Install the back wall, put the elastic glue on the board with a notched trowel.

Fig. 5 Stick the board to the wall behind the fireplace, above the prepared fireplace base.
Fig. 6 Fix the insert and the previously prepared sidewalls.

Fig. 7 Place the wooden girder and measure the required length of its insulation elements.
Fig. 8 Cut out the required elements.

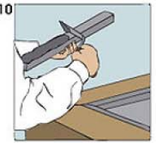


Fig. 9 Fix the first layer with screws.
Fig. 10 Put a layer of glue on the girder according to the instructions on the label.

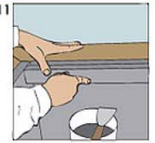


Fig. 11 Place a second layer of insulation securing the screw connections.
Fig. 12 Place the back of the smoke duct.

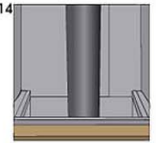


Fig. 13 After installing the sidewalls of the exhaust duct, stiffen the construction using the screws.
Fig. 14 The chimney lead-out.

Fig. 15 Ground the exhaust duct cover.
Fig. 16 Strengthen the board connections with joining tape and aluminium angles.

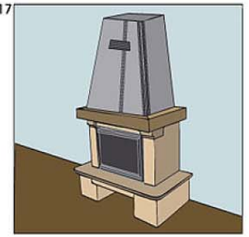


Fig. 17 Place a decoration layer (plaster) on the finished cover.

Building Instructions

skamol

FIREPLACE INSULATION BOARDS

SUPER-ISOL

Skamol fireplace insulation

SUPER-ISOL calcium silicate boards are used both as fireplace insulation as well as a part of the construction. The boards are non-dusting, rigid, smooth and simple to install. The properties of the product allow a simple installation, using only ordinary wood-working tools. We recommend using SKAMOLEX GLUE and screws for joining the boards. Alternatively a system for joining gypsum-cardboard panels can be used.

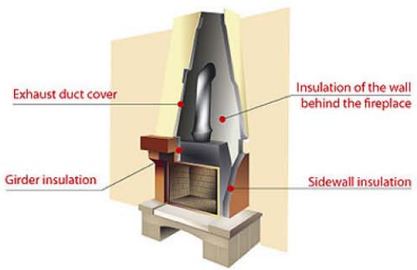
Technical specifications

Color	Grey
Fire classification	A1 non-combustible, no flame
Max. service temp.	1000 °C
Thermal conductivity	0.06 W/mK at 200°C
Compressive strength	2.6 N/mm^2
Bulk density	225 kg/m^3

Standard sizes

Length x width:	1000 x 610 mm
Option:	1000 x 1220, 1000 x 305 mm
Thickness:	25 - 100 mm

Example Use



SKAMOLEX

Skamol's heat-proof panels

SKAMOLEX panels are heat-resisting vermiculite boards with a choice of 8 different decorative face finishings. The panels are used for the inside lining of fireplace inserts and open hearths. A low heat accumulation along with excellent insulation properties helps the combustion chamber in reaching a high temperature in a very short period of time. This allows a more complete combustion resulting in a reduction of polluting emissions. Installations and changing of designs are made easy by fitting the panels using ordinary wood-working tools.

Technical specifications

Color	Sand
Fire classification	A1 non-combustible, no flame
Max. service temp.	1100 °C
Thermal conductivity	0.18 W/mK at 200°C
Compressive strength	4.5 N/mm^2
Bulk density	700 kg/m^3

Standard sizes

Length x width:	1000 x 610 mm
Thickness:	16, 25 mm

SKAMOLEX Panel Designs include:

Why do specialists choose SUPER-ISOL boards?

SUPER-ISOL boards are more than mere insulation. **SUPER-ISOL** combines unique properties in being both highly insulating and at the same time presenting a lightweight but rigid board suitable for constructional parts.

TIME – 50% faster insulation

The low density and availability of standard sizes from stock allow our product to be quickly and easily transported to a building site. Rapidly fitting the panels using only ordinary wood-working tools, SKAMOLEX GLUE and screws cuts installation time down by up to 50%.

HEALTH – Free from hazardous fibres

SUPER-ISOL boards contain no ceramic fibres. The surface is non-dusting insuring that they do not cause any allergic reaction. **SUPER-ISOL** is resistant to mold or other fungus attacks.

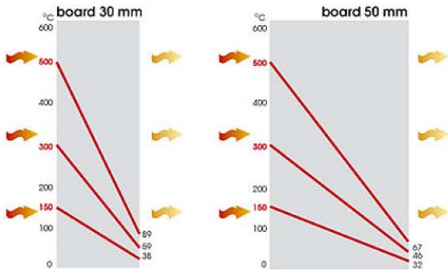
QUALITY– The specifications

SUPER-ISOL is characterized by having the best technical specification available in the market. High service temperature, low density, high strength and large sizes make it a perfect solution for every fireplace.

SAFETY – Temperature distribution

SUPER-ISOL boards are perfect heat insulators, non-flammable, classified as A1.
During heating the external side of the fireplace remains safe to touch.

On charts below the reduction of temperature in 30 mm and 50 mm boards are shown.



What do you gain by covering the fireplace with SKAMOLEX Panels

SKAMOLEX panels are a perfect finishing element for fireplace inserts and open hearths.

All it takes is placing the panels inside the hearth locking them with small clamps of sheet metal or alternatively place them freely as an interlocking kit-set.

The solution allows a quick change of the fireplace design, with a high aesthetic value to the entire room.

SKAMOLEX panels are safe to health. Owing to their special properties they guarantee a high burning temperature, which reduces the emission of pollution to the environment.

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