

Improved indoor climate with **SkamoWall**



Learn more about SkamoWall

Table of contents

Improved indoor climate with SkamoWall.	4
Regulate damp problems with SkamoWall.	6
Eliminate mold with SkamoWall	8
All in one with SkamoWall	10
Simple mounting with SkamoWall	12
SkamoWall's expression.	14
Preserve the architectural expression with SkamoWall .	16
Screw strength with SkamoWall.	18
Production of SkamoWall	20
Technical information about SkamoWall Board	22



Improved indoor climate with **SkamoWall**

SkamoWall consists of the calcium silicate board SkamoWall Board and associated products.

SkamoWall ensures an improved indoor climate by:

- ✓ Regulating damp problems
- ✓ Eliminating mold

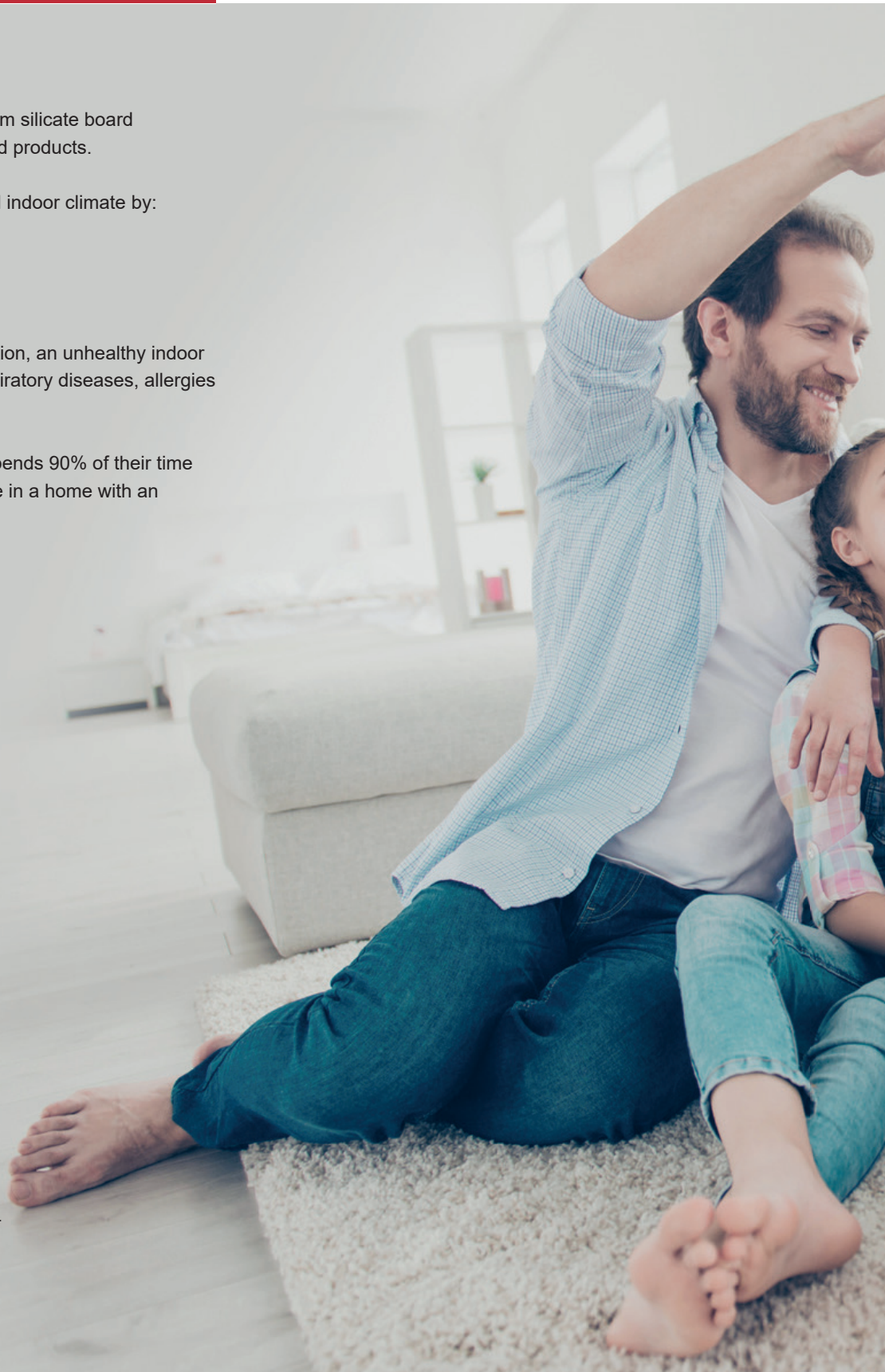
Indoor climate in general

In addition to general dissatisfaction, an unhealthy indoor climate can result in chronic respiratory diseases, allergies and skin diseases.

In the EU, the average person spends 90% of their time indoors, and approx. 80. mio. live in a home with an unhealthy indoor climate.*

We will help solve that problem.

*VELUX's Sustainability Report from 2018.





Read more about
indoor climate

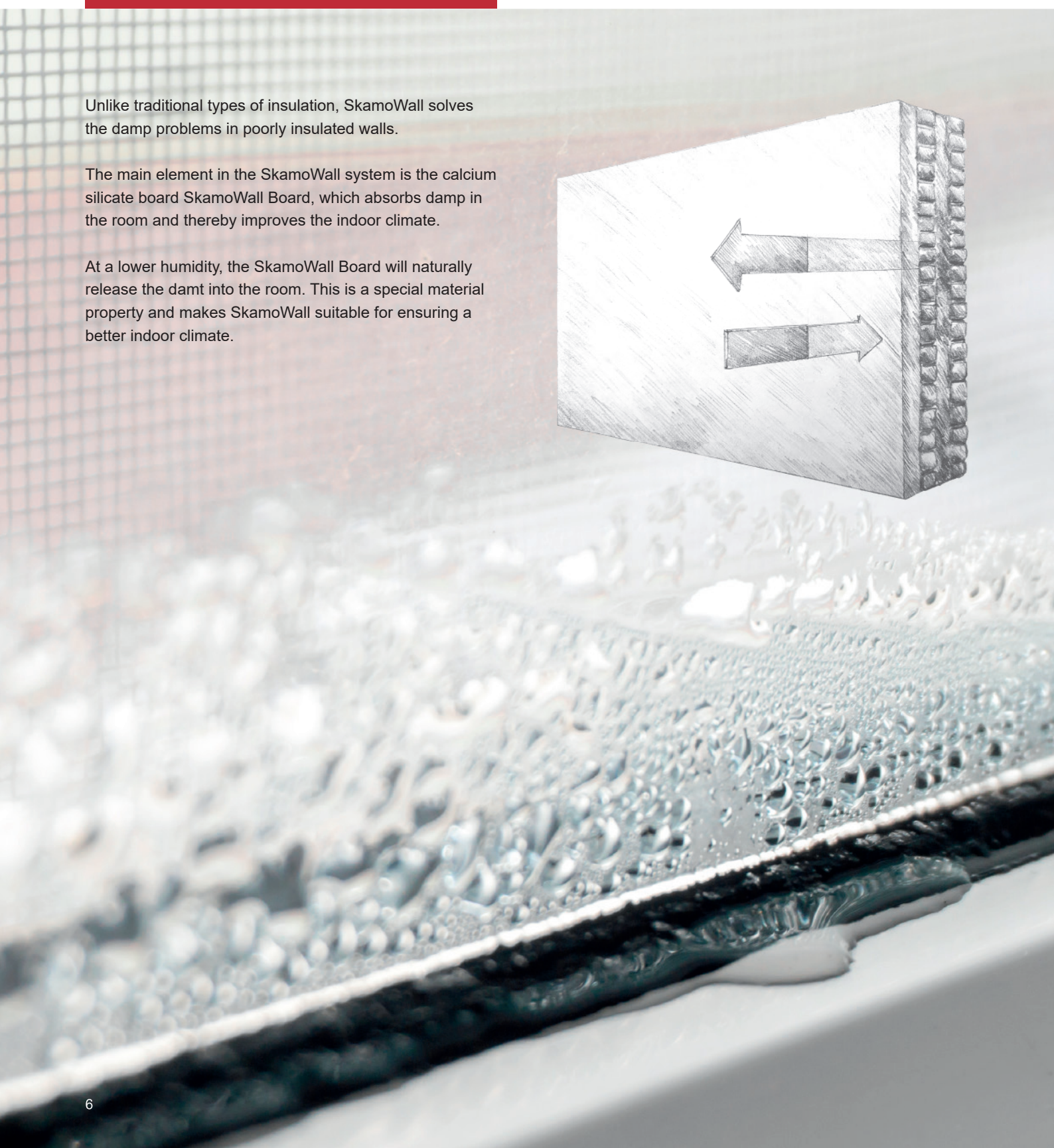
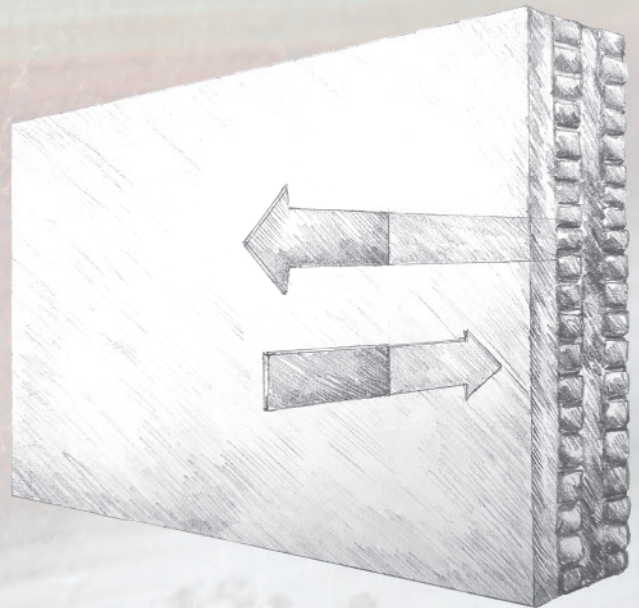


Regulate damp problems with **SkamoWall**

Unlike traditional types of insulation, SkamoWall solves the damp problems in poorly insulated walls.

The main element in the SkamoWall system is the calcium silicate board SkamoWall Board, which absorbs damp in the room and thereby improves the indoor climate.

At a lower humidity, the SkamoWall Board will naturally release the damp into the room. This is a special material property and makes SkamoWall suitable for ensuring a better indoor climate.





Read more about
damp problems



The Research Institute writes:

Calcium silicate boards are the opposite of framework walls, in that they can absorb damp from the indoor climate, which can then diffuse through the material. When the damp content of the material becomes so high that capillary condensation occurs in the side toward the outer wall, the capillary absorbing properties of the material means that the damp is pulled against the indoor climate again, as the water will search for the dry part of the material. The water can now evaporate in towards the room until stability occurs and the surface becomes dry.

DBI instructions 240
Danish Building Research Institute

Eliminate mold with **SkamoWall**

The Danish Technological Institute has tested SkamoWall's ability to prevent mold growth. Seven weeks after mounting SkamoWall, there is no growth of mold.

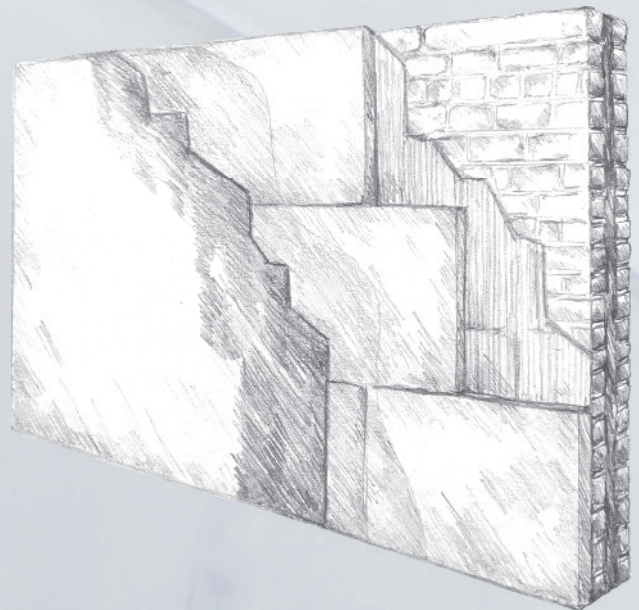
A combination of SkamoWall

- ✓ Is made of inorganic materials, so there is no nourishment for mold growth.
- ✓ Has a pH value > 10, which limits the risk of mold growth.
- ✓ Raises the surface temperature, so there is no condensation moisture for mold growth.

This means that mold can not grow on SkamoWall.

Mold in general

Being exposed to mold can, among other things, cause fatigue, headaches as well as irritation of the eyes and respiratory passages, which increases the risk of respiratory infections. With repeated exposures to molds, chronic disorders such as asthma can be developed.



Read more about
mold

Danish Technological Institute, Wood Technology

647950_Report

On the reference material values were found in category B and C which is consistent with the fact that growth was observed on these materials.

On the reference material values were found in category B and C which is consistent with the fact that growth was observed on these materials.

647950 Report

647350_Report

All in one with **SkamoWall**



SkamoWall Board

Is a calcium silicate board available in standard sizes:

1,000 × 610 × 25/30/50/100mm

1,220 × 1,000 × 25/30/50/100mm



Skamol Primer

Is a primer that is applied to both sides of the SkamoWall Board.



Skamol Lime Mortar

Is a combined adhesive and coarse-grained plaster on which a diffusion-open paint can be applied.



Skamol Smooth Plaster

Is a fine-grained plaster on which a diffusion-open paint can be applied.



Read more about
products



In addition, there are a number
of products if there are special
requirements for the project.

At www.skamowall.com you will find a
calculator where you can calculate the
material consumption for your project.



Simple mounting with **SkamoWall**

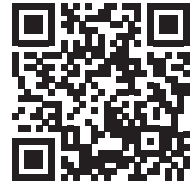
”

The craftsman says:

Compared with other solutions on the market, we find that SkamoWall is significantly faster to put up, just as the preparation is significantly easier.

Master builder from Aarhus

SkamoWall



Read more about
mounting

The following pages provide a more detailed explanation of how to mount SkamoWall.

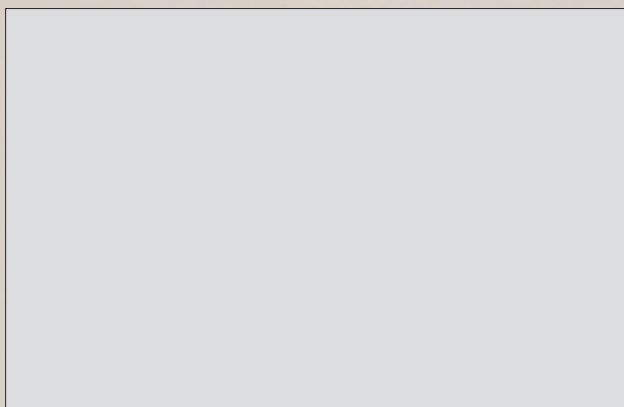
Mounting SkamoWall can be explained briefly in six points that make it easy for both DIY projects and professional craftsmen.

- 1 Prepare the wall**
Remove loose plaster, tar, paint residue and organic materials. In case of mould growth, clean the wall with a biocide product. Use the Skamol Lime Mortar adhesive so that unevenness does not exceed 10mm.
- 2 Prepare materials**
Use common tools to resize and prepare SkamoWall Board for installations (e.g. electrical and plumbing). Apply Skamol Primer to the inward-facing side of the board.
- 3 Mount the board**
Apply Skamol Lime Mortar to the SkamoWall Board and wall. Mount the boards on the wall and push the boards up against each other.
- 4 Apply the plaster**
Apply Skamol Primer to the outward-facing side of the board to be plastered. Choose between Skamol Lime Mortar and Skamol Smooth Plaster. Use the selected plaster to fill the joints.
- 5 Mount the optional protection products**
If necessary, you can mount Skamol Corner and Skamol Mesh for extra wall protection.
- 6 Finish the wall**
The wall can be painted, if desired.

Please note that any leftover material should be taken to your local recycling centre.



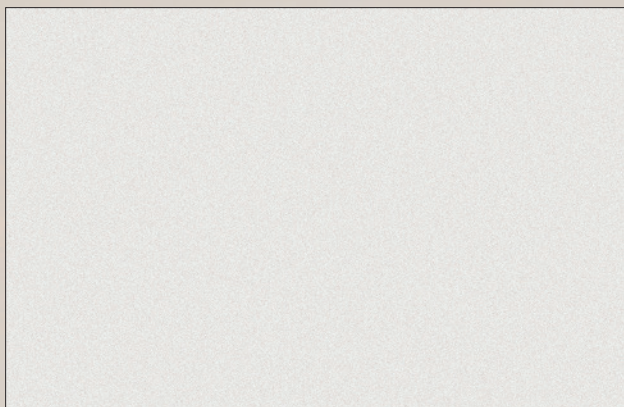
SkamoWall's expression



SkamoWall Board

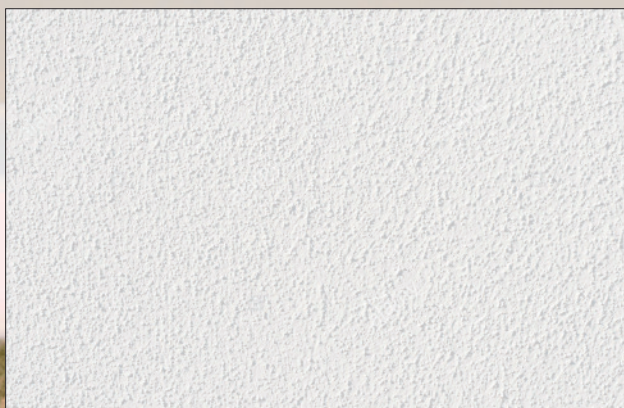
is a gray calcium silicate plate with a slightly dusty surface.

We recommend to apply either Skamol Smooth Plaster or Skamol Lime Mortar on SkamoWall Board to get the right visual expression.



Skamol Smooth Plaster

Skamol Smooth Plaster is a white fine-grained plaster that can be painted with a diffusion-open paint.



Skamol Lime Mortar

Skamol Lime Mortar is a white coarse-grained plaster with a grain size of 1-2mm that can be painted with a diffusion-open paint.

Paint

For SkamoWall, paints with high water vapor permeability should be used with the parameters mentioned below.

The wall can be painted if desired. Before painting, SkamoWall Board must be plastered with Skamol Lime Mortar or Skamol Smooth Plaster with a thickness of 2mm (also in the joints).

Only diffusion-open paints with a S_d parameter value not exceeding 0.05 m should be used.

For the sake of diffusion openness, we recommend sanding down the paint after applying five coats.



Preserve the architectural ex with **SkamoWall**

Keep the original facade of the building and let SkamoWall solve problems with damp and mold.

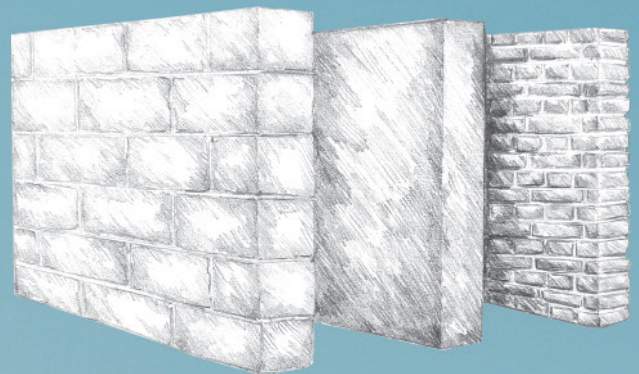
SkamoWall can be mounted inside on walls of:

- ✓ Bricks
- ✓ Concrete
- ✓ Aerated concrete
- ✓ And all other inorganic wall types.

Renovation in general

Re-insulation is traditionally associated with time-consuming and expensive solutions. This is mainly due to the fact that the solution is often carried out as an exterior renovation of the facade. Among other things, this solution entails:

- High cost of scaffolding
- Stressful construction noise
- Time-consuming construction process



pression

SkamoWall
by Skamol



See references

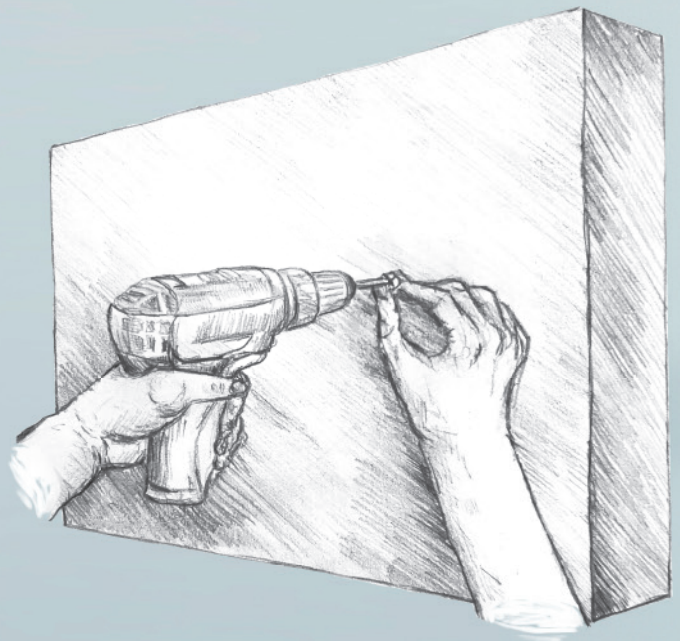


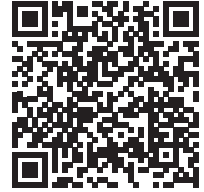
Screw strength with **SkamoWall**

SkamoWall is light, has a high strength and is screw-tight. This means that you can screw directly into the board.

For loads over 2kg, we recommend using standard rawl plugs, which are easily mounted by pre-drilling in the SkamoWall Board.

- ✓ You can easily pre-drill and mount rawlplugs
- ✓ You can mill tracks for e.g. power cables into the boards





Read more about
screw holding capacity



The project manager says:

We chose the SkamoWall indoor climate system with calcium silicate boards, as it basically eliminates damp, prevents mold, eliminates thermal bridges and significantly increases the surface temperature of the wall. At the same time, it has unique properties regarding screw-friendliness. Our requirement was that it should be possible to hang radiators directly onto the boards without having to screw into the wall behind the boards and thus increase the risk of thermal bridges. We tested, e.g. that the board was able to hold over 15kg per screw and a total of over 100kg on one shelf.

Project Manager from Boll+

Production of SkamoWall

International producer of calcium silicate

SkamoWall Board is made of the lightweight material calcium silicate, which is produced by the Danish company Skamol Group.

Skamol has more than 35 years of experience with production of calcium silicate, and today exports to large parts of the world.

What is calcium silicate?

The main constituents of calcium silicate are quicklime and microsilica, which is originally a by-product of silicon production.



Quicklime



Microsilica

Calcium silicate production units:

- Skamol Branden, Denmark
Started production in 1983
ISO EN 9001 certified
- Skamol Opole, Poland
Built in 2016
ISO EN 9001 certified



Technical information about SkamoWall Board

	Value	Unit
Bulk density (EN ISO 29470)	225 14	kg/m ³ lb/ft ³
Compressive strength (EN ISO 29469)	2.6 377	MPa psi
Total porosity (EN 993-1)	91	%
Water vapour transmission, μ (EN 12086)	3	
Short term water absorption (EN ISO 29767)	28 5.73	kg/m ² lb/ft ²
Thermal conductivity (EN 12667), $\lambda_{23,50}$	0.068 0.039	W/(m×K) BTU/(h×ft×°F)

Sound reduction index ($R_w(C;C_{tr})$)	Thickness		
	25mm	25 (-2;-4)	dB
	60mm	27 (-1;-3)	dB

Thermal resistance	Thickness	R	
	25mm	0.37	(m ² ×K)/W
	50mm	0.74	(m ² ×K)/W
	100mm	1.47	(m ² ×K)/W
	0.98in	2.09	(ft ² ×h×°F)/BTU
	1.97in	4.18	(ft ² ×h×°F)/BTU
	3.94in	8.35	(ft ² ×h×°F)/BTU

Fire classification (EN 13501-1 + A1)	A1*	
HS Tariff number (Harmonized Commodity Description and Coding System)	6806.90.00	
Colour	Grey	

* SkamoWall Board's fire resistance is classified in the highest requirement level A1 according to the European fire classification system EN 13 501.

This means that the SkamoWall Board is classified as a non-flammable material.



Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted. Revision number: 26.6.2025



Find more
technical information

All in one



All in **one**



See more at www.skamowall.com

Skamol by Etex

Hasselager Centervej 1, 8260 Viby, Denmark

Tel.: +45 97 72 15 33

www.skamol.com