

MINERGIE®

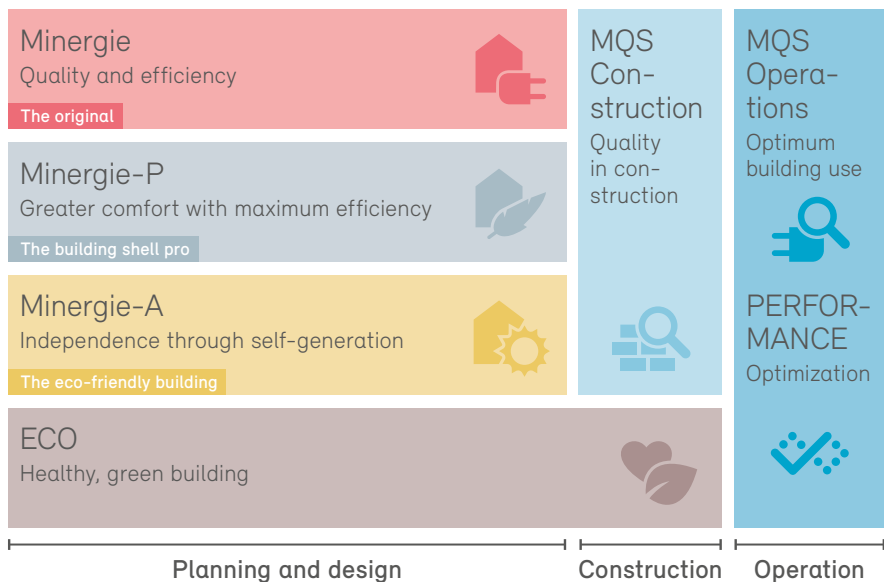


Minergie building standards:
For climate-friendly comfort
in life and work

What is Minergie?

Minergie has been the Swiss standard for comfort, efficiency and value preservation since 1998. Its primary focus is comfortable living and working conditions for the users of new and renovated buildings. A high-quality building envelope and controlled air exchange play a major role in the Minergie requirements. Other distinctive features of Minergie buildings include their minimal energy consumption and the maximum possible use of renewable energies, with building services that create no carbon emissions.

The three well-known Minergie building standards, **Minergie**, **Minergie-P** and **Minergie-A**, ensure maximum quality and efficiency starting from the planning phase. For renovations, there is a simplified certification system (**Minergie system renovation**). **ECO** is an additional product that takes the issues of health and construction ecology into account, while the **MQS Construction** supplement is aimed at construction clients and planners who want high-quality construction guaranteed. The products **MQS Operations** and **PERFORMANCE** optimize the use of building service systems for maximum comfort in the operational phase.



Requirements

Example: new build

Photovoltaics

At least 10 watt/m² usable area (exceptions possible)

Minergie-A:

Power produced greater than total energy consumed

Air density in building envelope

To avoid structural damage

Minergie-P:

with measurement

Minergie-A:

with measurement

Electromobility

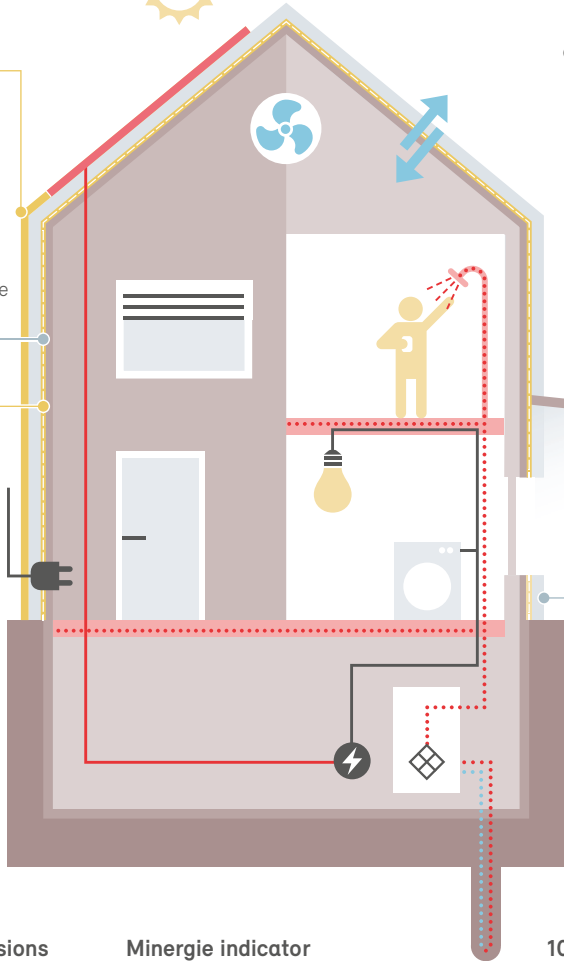
Preparation for electromobility

Energy monitoring

Transparency, basis for optimizing operation

Greenhouse gas emissions

in construction



Ventilation

Automatically ensures good air quality, low emissions and no structural damage

Hot water

Minimized energy and water consumption

Summer heat protection

Optimal sun protection and nighttime cooling

Lighting and equipment

Efficiency incentives

Thermal insulation

In accordance with MuKEn 2014

Minergie-P: heightened requirement

Minergie indicator

Total energy footprint (incl. own power production) between 20 and 125 kWh/(m²a), depending on the standard and building category

100% fossil-free energy

For heat generation (excluding district heating, etc.)

Building standards compared

Minergie offers three building standards for new and renovated buildings – Minergie, Minergie-P and Minergie-A. The difference between these standards lies in the buildings' energy footprint.



Minergie: the original

The Minergie building standard is aimed at construction clients and planners with above-average expectations for quality, comfort and energy. The energy footprint of Minergie new builds is 20–25% better than required by law, while Minergie renovations reduce energy consumption by a factor of two to five. The requirements for heat protection are four times higher than for conventional buildings.



Minergie-P: the building shell pro

Minergie-P buildings use the smallest amounts of energy. A combination of optimal insulation and best-possible use of passive heat sources (e.g. solar power) ensures the utmost in comfort, since heat is retained inside the building for noticeably longer throughout the winter months. Minergie-P buildings are often very compact, making them financially attractive. They pave the way toward a 2000-watt society.



Minergie-A: the eco-friendly building

A Minergie-A building produces at least as much renewable energy as its occupants consume in a year. Minergie-A is the most ambitious Minergie building standard, and yet it has already been tried and tested thousands of times over. Buildings constructed in line with Minergie-A already satisfy any future developments in energy policy as well as the comfort requirements of occupants against the backdrop of climate change.

All three building standards can be combined with the additional **ECO** product. ECO supplements the Minergie building standards with an **especially healthy and environmental construction method**. The building standards can also be supplemented with **MQS Construction, MQS Operation, PERFORMANCE** and the Swiss Sustainable Building Standard (**SNBS**) for socioeconomic factors.

Minergie: Better building. Better living.

✓ Comfort and health

An outstanding building envelope combined with controlled air exchange and good sun protection guarantees a pleasant indoor climate – in both summer and winter. The windows can be opened at any time. Controlled air exchange provides constant fresh air and removes pollutants and excess moisture. There is virtually no risk of mold formation.

✓ Energy efficiency and sustainability

Minergie buildings have extremely low energy consumption. They are heated fossil-free and produce some of their own electricity. With the Minergie-A standard, energy production even exceeds consumption. This makes Minergie buildings self-sufficient and optimally equips them for the future. The standardized Minergie certification process, clear requirements for all parties and an experienced network of specialist partners simplify the entire planning and construction process. Planners by and large have free choice of design, materials and building structure. As a rule, a Minergie application replaces the energy certificate required as part of the planning permission process in Switzerland.

✓ Value preservation and quality

Minergie stands for the highest quality in construction and its certification guarantees comprehensive quality assurance. This preserves the value of your building in the long term. MQS quality systems enable efficient operation and reduce the risk of structural defects. In many cantons and communes, the Minergie building standards enable better use of your site (utilization, building height, distance between buildings, etc.). A Minergie certificate also allows you to benefit from subsidies as well as favorable mortgage conditions due to interest rebates.

Interested?

We would be happy to provide you with a personal consultation.

Minergie

Bäumleingasse 22

CH-4051 Basel

Switzerland

+41 61 205 25 50

info@minergie.ch

www.minergie.ch

With the Support of



The Minergie Leadingpartners



Internorm

NeoVac



always the
best climate

zehnder



**Zürcher
Kantonalbank**