



# CasaClima Quality Certificate

LIVING COMFORTABLE AND SAVING ENERGY



## My CasaClima

Living in and owning a house is a goal that many people pursue. Whoever takes it on, however, is forced to face many challenges: from the financing, to an intelligent and foresighted design, to the implementation in an impeccable manner.

More than a third of energy consumption and CO<sub>2</sub> emissions in Europe are due to construction related sectors. Building with CasaClima means showing responsibility and respect for the surrounding environment.

The CasaClima project includes all the aspects related to building efficiently and sustainably. As a public entity, the Agency is not involved in the construction process, but offers counseling and assesses the building throughout the design and construction process according to criteria of quality and ecology.



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### THE CASA CLIMA CERTIFICATION STANDS FOR

#### ■ CONSTRUCTION QUALITY

Whether new building or renovation, the CasaClima Agency, as an impartial entity, verifies the project of the building and the rigorous implementation of construction through two or more on-site audits.

#### ■ CERTIFIED QUALITY

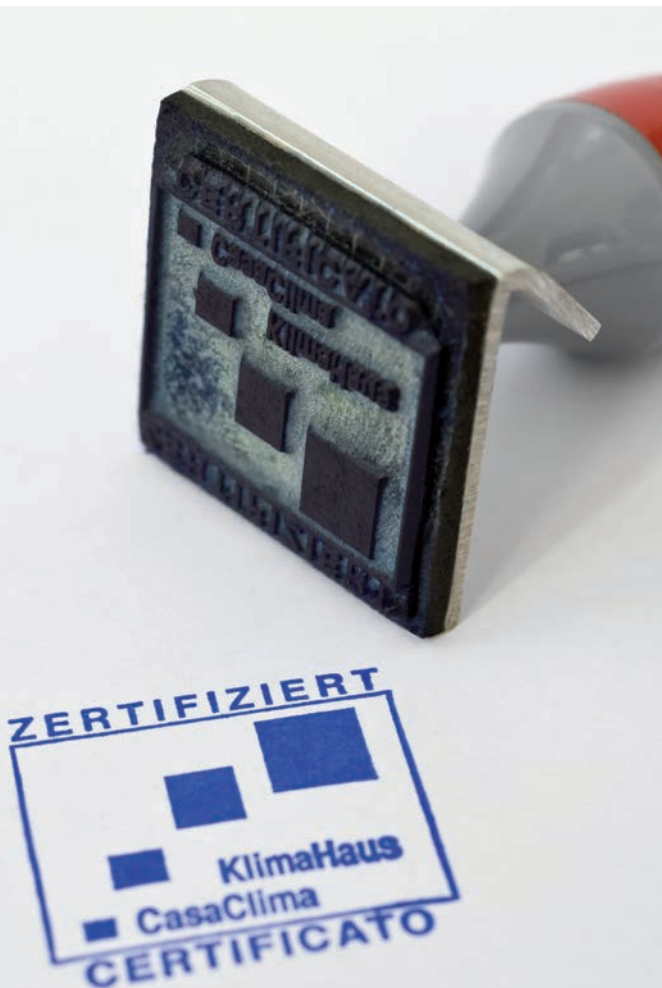
The quality control of the entire construction from the planning to the building, and a verification of the smoothly functioning of the HVA appliances composed of the heating and the ventilation system as well as the air conditioning, contributes to maintain the building's value and to protect the interests of the owner/resident.

#### ■ ENERGY EFFICIENCY AND CLIMATE PROTECTION

Operating costs can be evaluated realistically: a CasaClima building consumes little energy and respects the surrounding environment. A CasaClima building already meets the European energy standards of tomorrow.

#### ■ HIGH LIVING COMFORT

A CasaClima building offers a comfortable indoor climate both in wintertime and in summertime ensuring wellbeing.







## CasaClima LIVING COMFORTABLE AND SAVING ENERGY

# Quality is in the details

The **CasaClima certificate** attests the compliance of a building project with the CasaClima quality standards. It sheds a light on the achievement of the energy standard of the building by checking the quality of the building skin and the overall efficiency of the energy consumption of the building. At the same time, it evaluates the ecological sustainability of the build (Nature protocol).

The **CasaClima plaque** is handed over to buildings certified by the CasaClima Agency, which expresses that the building complies with the quality standards requested by the CasaClima Agency.



## TRUST IS GOOD, CONTROL IS BETTER

A CasaClima project rests its foundation on a proper and detailed design, preferably followed and supervised by an independent CasaClima **consultant**. Besides the controls of the project, **on-site audits** are the distinct proof of the compliance with quality standards derived by the CasaClima system. Performed by an independent third party, the audits are carried out throughout the construction phase and upon completion of the building project.

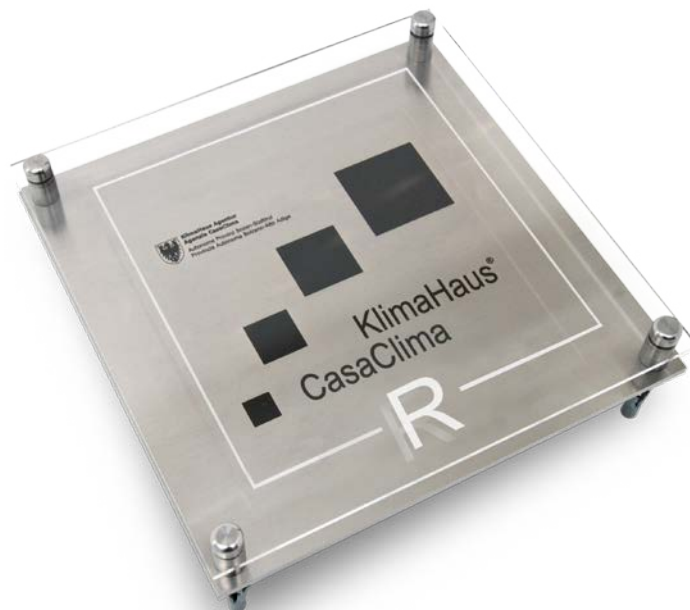
The **blower-door test** is the final proof of the quality of the execution of the building. Any defects, such as thermal bridging that lowers the energy efficiency and the indoor comfort of the building, are detected and resolved promptly. Thereby, the test safeguards the interests of the homebuilder, namely, the realization of high quality and energy efficient build.



# Guidelines for restoration

Eventually, each building undergoes maintenance or modification interventions. In this way, the building gets adopted to the requests of the owner/resident for higher comfort or change of the space. Ideally, restoration interventions are coupled with an energy renovation. In this way, the building becomes energy efficient, unnecessary energy expenses get curbed and negative environmental impacts on the environment are reduced.

Each energy renovation is a unique case and should therefore be dealt with care in every detail. One needs to take into consideration the peculiarities of the existing surroundings, maintaining the character of the building with its unique architectural qualities. Compared to a new construction, the choice of the technical possibilities is limited and mistakes may be made more easily. A CasaClima renovation considers these various aspects.



With **CasaClima R** a seal of quality has been created with guidelines for the project phase and for the implementation of an energy renovation of high quality.

Always keeping the cost-benefit ratio in mind, the final objective is to obtain the optimal potential of improvement of the building skin and HVA appliances (heating, ventilation, air conditioning).

#### THE MAIN TOPICS INCLUDE

- Increased **energy efficiency**
- **Reduced** running costs
- Adequate **amortization** periods
- **Increased value** of the property
- Improved **living comfort**
- **Pleasant** and **healthy** indoor climate

Ultimately, an energy renovated building contributes to **climate protection**.





## Looking ahead

For CasaClima, **sustainability** is a holistic concept, which not only evaluates the energy efficiency of a building but goes further and considers the entire life-cycle of the building.

The quality certificate of **CasaClima Nature** assesses sustainability based on the following criteria:

- Overall **energy efficiency** of the building
- **Environmental impact** of the materials used in construction
- Efficient use of **water** resources
- High **indoor air quality** and **low emission** materials
- Measures to protect against **radon gas**
- Use of **natural light**
- **Acoustic comfort**



Based on the CasaClima Nature protocol, the Agency has developed an entire group of quality seals that take into account the specificities and needs of various areas of application:

- **ClimaHotel** for the hotel business
- **CasaClima Welcome** for B&Bs and small accommodations
- **CasaClima Work&Life** for tertiary buildings
- **CasaClima Wine** for wineries
- **CasaClima School** for school buildings

Alongside of the sustainability of the building, attention is also paid to the conscious use of the resources during its use and its management.

For this reason criteria are introduced for waste management, the use of efficient lighting and appliances, locally produced products, sustainable mobility and logistics and monitoring of the resource consumption.

### SUSTAINABILITY FROM DESIGN TO USE



During the **PRE-CERTIFICATION** the sustainability objectives of the project, the construction and the final management of the building are defined



During the **CERTIFICATION** process the concrete implementation of the objectives and the level of satisfaction of the criteria are verified



The **RE-CERTIFICATION** verifies, every two years, whether the quality standards and the sustainability criteria are maintained during the use of the building.





