KlimaHaus®
CasaClima

Energy Efficiency and Sustainability

Dr. Ing. Ulrich Santa

Climate Change…

KlimaHaus®
CasaClima

1911

2002

CasaClima KlimaHaus®

… and its consequences

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Südtirol KlimaLand

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KLIMAPLAN
Energie-Südtirol-2050

CasaClima KlimaHaus®

The KlimaHaus World

KlimaHaus®
CasaClima

CasaClima Network

Sustainable building certification
CasaClima*nature*

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CasaClima

Energy Efficiency

LCA Materials

Indoor Quality

Water cycle

Acoustic comfort

Natural daylight

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CasaClima-KlimaHaus Nature

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1. Energy efficiency	Energy efficiency of the building envelope	≤ 50 kWh/m²a
	Global energy efficiency of the building	≤ 20 kg CO2/m²a
2. Environmental sustainability of the materials used	Primary non-renewable energy content (PEI) Acidification potential (AP) Global warmin potential (GWP100) Durability of construction materials (tu)	Maximum score < 300 Points
3. Water management	Efficiency of the sanitary facilities of the building Unsealing of surfaces. Eventually existing structures for the utilisation and/or channeling of rain water	Degree of improvement compared to a standard type housing ≥ 35%
4. Interior air quality	Integrated ventialtion system and/or employment of products and materials that respect the emissions ceiling (VOC and Formaldehyde).	Emissions ceiling for - Formaldehyde : 0,05 ppm - VOC lt. policy
5. Natural lighting	Daylight factor FLDm	≥ 2% ≥ 3% for classrooms
6. Measures to protect from Radon exposure	Maximum level of Radon concentration Rn-222 in interior spaces	< 200 Bq/m³ New building < 400 Bq/m³ Refurbishment
7. Sound insulation	Airborne sound and footfall insulation	Set value in lt. guidelines

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Collaboration

- definition of a methodology that allows a complete comparison between the certifications performed with the two protocols;

- definition of a joint process that allows to perform the evaluations with the ITACA protocol or CasaClima in the current versions, achieving consistent and comparable results;

- **technical comparison and sharing as part of the evaluation and review of technical specifications and contractual clauses contained in the minimum environmental criteria (CAM);**

- **collaboration in the evolution of the two protocols to standardise individual indicators and/or to develop new ones (such as, for example, the analysis of the life cycle of a building);**

Collaboration

- development of a new joint energy-environmental protocol promoted in co-branding to cover minimum environmental criteria (CAM) and to support public administrations;

- definition of a **complete and common training** path for designers who do not have an ITACA or ClimateHouse training, having as object the two protocols and the modalities of joint application;

- definition of the program **of refresher courses for ITACA designers and ClimateHouse Consultants** and for the **mutual recognition of skills;- design and organization of joint technical-professional initiatives** (seminars, conferences, workshops, etc.);

The resources we consume today are lacking for tomorrow's generations