

A SMART Home Klima-Haus with Green Plant Walls or a Village everywhere

Our Klima Haus is an enhanced Alpine Swiss way of building your home ensuring indoor favorable climatic conditions on outside's extreme (cold or hot) temperatures, high quality of living, low energy footprint, room by room independent 24h fresh air exchange (HEPA/active carbon filter). It has an exhaust air systems recycling 90% of the inputted energy. El. energy is generated by PV and wind. Water production is in house. The facility energy management is SMART. Certain walls are hosting plants and are made by Supercement to passively lower indoor pollutants in the air.



In approaching Southern areas located close or between the tropics, sunshine elevation requires fewer balconies and a very large photo-voltaic roof for shadowing the building. Therefore balconies, as a panoramic viewpoint with a millenary tradition, are unified as one single room moved to be in place on top, between the building corpus and the large photovoltaic-roof. (As by our star architect Renzo Gennaro)





SMART Home:

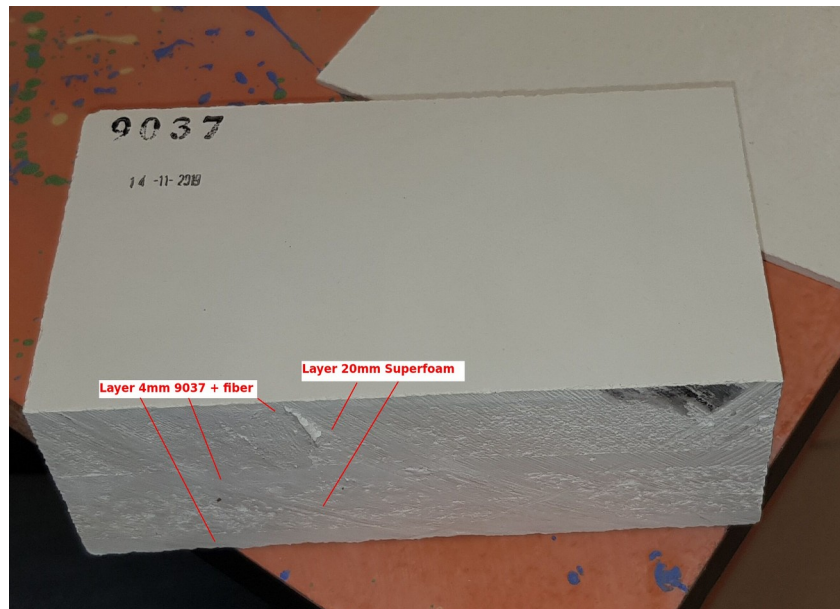
Very often engineers do not conceive to embed air in the walls also, forgetting air under particular conditions, is a very cost-effective insulation.



A home is SMART also because it operates in a smarter and more accountable way while adopting several domotics devices, using cooled photo-voltaic (PV) panels and magnetic-levitation wind turbines. It uses also room by room localized 24h, an 18-20dB silent air-conditioning recuperating 90% of the energy input and [Archimedes](#) a solar focal-mirror concentration system to decompose and sterilize all sewage waters to be later used as garden water. It is generating way more thermal and electrical energy as it is consuming.

It uses resources like heat and cold from our inverted thermal cycles, a natural way of heating and cooling the rooms. It generates drinkable water from vacuum steam distillation (mimicking a natural process) and it uses effective natural filters while not wasting water intakes like with osmosis.

It also has its own uninterrupted electricity supply, an autonomous +5°C freshwater supply, way better fresh air exchange while efficiently mitigating outside air pollution and dust. It is naturally preventing torrid temperatures adopting Superfoam of [Vortexed Supercement](#).



Wood:

Highly aesthetic wood is deployed on the walls and floors. It originates from our partner a Green-Three-Farm in Africa.



Our high-speed indoor data system & electronics:

Ensuring your best health, our Smart Home has no Radio Frequency (RF) emissions, although **>150 Mbps** of MOBILE **LiFi** communication throughput is achieved in each room. The whole home can be running **>1Gbps**. Domotic electronic devices come from Sweden. Solar system, the wind turbine and the inverter are Swiss and other adopted home appliance products are German.

Greenery Walls in your Atrium:

Obviously, a Greenery Walls Klima Haus + Smart Home is less chemically and electromagnetically polluted as conventional homes, although being interconnected to the world, has less day and night noise, and newer the last, it has a significant internal number of greenery plants walls and a green garden for absorbing pollutants, absorbing CO₂ and releasing O₂. There you can safely and unattended leave your kids playing or simply relax. The traditions of this internal garden are millennial years old. The pond is maximum 30cm shallow.



Making water potable and healthy:

Below you can see the core to our 0,3m³ and 1 m³/day vacuum distiller, supplying drinkable water from dirty/salty water. We also build in a reservoir up to 5m³, kept 24h clean by shiny C-UV light illuminating the walls of a Supercement coated and sealed drinkable water reservoir, supplying an impeccable +5°C freshwater. For example, it stands for an unprecedented showering experience feeling waters like in Alpine glacier lakes.



Our Water-Technology:

- any water can be used;
- the released water is to be cleaner as inputted water;
- there are no more needs for centralized sewage;
- sewage is high temperature sterilized and waters the greens (4-5 Liters/m²);
- solid remaining and organic leftovers are filtered out and become biofertilizer;
- rainwater, if any, is to be collected and stored;

Pls see our 2 key documents:

[Making Unlimited Amounts of Soft Potable Water](#)

and the WHITE PAPER

[The Nightmare of making, storing, piping Pure Potable Soft Water .](#)

Our mission:

- we build Green Villages and Klima-Haus buildings running with Green walls absorbing indoor pollutants and we adopt Smart Home technologies while giving these new nodes of Green Civilization everything they need, not only to be self- sufficient;
- we build in a Cradle to Cradle modus
- we allow people to live in Green Homes or Villages way far better than the Middle-Class people ever have done before;
- synergistic bring technical solutions, capitals, and people's needs, all together.

Our approach:

- becomes feasible for a 5 heads Middle-Class family;
- allows running self sufficiently in electricity, clean water, and clean food production;
- establishes a High Tech and High Throughput pervasive data-interconnection to the world, across the whole house and village, with very modest electromagnetic interference (EMI) footprint;
- it means supplying extra electric power to the local electric grid or recharge your electric car.

Our High Tech home:

- adopts >150Mbps MOBILE telecommunication LiFi systems with NO RF emission;
- our cooled photo-voltaic can be fully serviceable, it produces more energy as you are consuming;
- produces exceptionally good quality water from any dirty water;
- significantly reduces the internal chemical and electromagnetic pollution;
- stays cooler and warmer at way much less energy expense;
- reflects millenarian traditions;
- builds quicker, damn solid, with less maintenance, it has no corrosion (carbonation) on re-bars, while all surfaces can be washed off @ 60 bars.
- room by room air ventilation with 90% (hot/cold) conditioning energy recuperation.

Our Vortex Supercement and Vortexed Superfoam:

We use use our Vortex Supercement ranging in compression strength from 50 to 300N/mm². It allows us to make superstrong (-1pH) surfaces, walls and even cast a purest Vortex Supercement SUPERFOAM with:

- density 0.4gr/cm³ @ 3N/mm² compression, 0.05W/mK and -42dB
- density 1.2gr/cm³ @20N/mm² compression, 0.3W/mK and -53dB



Vortex Supercement Superfoam
is 100% made out of Cement only

If steel **got to bend**, Vortexed Supercement
stays intact and follows the bend

pls read our document
[Vortexed Supercement](#)



Decomposition of Aniline (organic example of a Graffiti) via UV-A in less than 6h:



Apposizione d'un colore a base organica alle 12:00



Condizione alle ore 12:08



Condizione alle ore 12:48



Condizione alle 13:06



Condizione alle 16:22



Condizione alle 17:50

We master:

- the design and sustainable construction of a Green walls Klima Haus + Smart Home;
- the sustainable production of electricity, hot and freezing cold, as well as clean and safe water production and its full storage;
- the full acoustic and thermal insulation;
- the CO₂ - corrosion of rebars and consequential concrete destruction prevention (200 years lifetime);
- the active air filtering beyond HEPA using Supercement layers.

How safe is the construction of a Green walls Klima Haus + Smart Home?

- all of the walls of your house are cast integrally in Supercement foam reinforced with steel rebars. Supercement foam is thermally and acoustically insulating;
- mechanical resistance to earthquakes is exceptional;
- we adopt african and arctic woods which are ecologically grown . Latter one is a very stable wood, because it has been growing very slowly over a century of time.

How are we designing a Green Walls Klima Haus + Smart Home?

- the shape to the home derives from proven in-house building-block solutions, based upon the architect's experience and client's desire. **We are active since 38 years.**

Where can we build our High Tech Green Villages?

- it does not matter where these villages are to be placed. Everywhere there is any kind of water hosted.



Please note:

In our team, we have a specialist in Extra Sensorial Perception (ESP) focused upon the fine art of living due to low electromagnetic field emissions (artificial), low natural earth-currents. We are ensuring NO radio frequency pollution, while still establishing a full speed data connectivity throughout the whole house. There are NO ultrasonic-emissions interfering with livings.

Your Swiss Team

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