Green Structure: The best practice Italian The Quality Home

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Green Infrastructure and Smart Cities with increasing Urbanization

With increasing urbanization and growing cities, engineers are expected to develop new innovations for green infrastructure for smart cities and develop low CO2 energy sources. Engineers have a vital role in solving the problems of climate change and to implement sustainable solutions for the use of depleting resources especially the use of water.
AGENDA:

- European Commission
- Casa di Qualità (Quality Home)
- Green Infrastructure exterior
- Green Infrastructure interior
- Greenery
- Conclusion (VIDEO)
The European Commission has developed a **Green Infrastructure Strategy.** This strategy aims to ensure that the protection, restoration, creation and enhancement of green infrastructure become an integral part of spatial planning and territorial development whenever it offers a better alternative, or is complementary, to standard grey choices, and introduces **Nearly Zero Energy Buildings** (NZEBs) which have very high energy performance.

The **Energy Performance of Buildings Directive** requires all new buildings to be nearly zero-energy by the end of 2020. All new public buildings must be nearly zero-energy by 2018. EU countries have to draw up national plans to increase the number of NZEBs.
Green Infrastructure interior
- Efficient Lighting
- Double Insulation
- Heat Pump
- Energy Management
- Photovoltaic Panels
- High Performance Windows and Doors
- Exceptional Air Sealing

Green Infrastructure exterior
- Facade
- Greenery
Casa di Qualità

01 Energy efficiency
Our buildings comply with all the rules and regulations concerning efficiency and energy saving.

02 Solid
Our buildings reflect every modern anti-seismic criterion, from the design to the materials managed.

03 Quality
We need light, air and space to live life to the max. Our buildings are designed to meet these requirements and provide maximum quality.

04 Design
Design and ergonomic solutions are the spearhead of our projects, where aesthetics and comfort merge into one another.
Green Infrastructure exterior Facade
Ventilated Facade

This protects the building and reduces the consumption of energy within the building.
Reinforced Concrete

Viterbo is a seismic area. Therefore it is a legal obligation to comply with specific building regulations with regards to anti-seismic properties of buildings.
Cavity Wall Filling

The thickness of the wall is 11cm which ensures maximum insulation and maintenance of ideal temperature inside in all seasons.
Green Infrastructure Interior Structure & Implantation
With radiant floor systems, every square meter can be exploited to achieve an ideal indoor climate.

And not just for heating but also for summer cooling, thanks to the technological evolution of regulation devices: radiant floors become reversible systems which can be exploited for the entire thermal cycle of the residential unit, thus representing a valid alternative to air conditioning.
Comfort means quality and healthiness of the environment we live in. In modern buildings, hermetically "sealed" for energy efficiency reasons, it is key to ensure the proper air treatment and control hygrometric conditions.
Greenery
Greenery

The use of plants to naturally purify the air in addition to adding to the beauty of our surroundings.
«… CREATIVITY IS THE GREATEST PLEASURE. IT IS THE ONLY TRUE VALUE ADDED TO LIFE, ABLE TO UNDERSTAND ALL OTHERS…»

Giovanni Agnelli

FIAT