The systems constructive light “the dry” compound super insulating of polystyrene foam septum continuous of reinforced concrete for structures monolithic: called system constructive insulating permanent formwork for concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ™ ICF.

The concept of building energy-efficient “is not unequivocally. Constructive system EPS SmartBlockPlus ™ ICF= Smart choice for smart people

Constructive system EPS SmartBlockPlus ™ ICF= Easy to use suitable for everyone

The materials sustainable of construction systems contributing to the comfort and quality of habitat. It is extremely important to choose the best material involving behavior toward the environment, its low energy consumption, low pollution for his or her best behavior as waste.

We can articulate some points to follow in the design and construction of a work, enabling environment and reduce energy costs. First, it suggests the industrialization and standardization of processes and building blocks, because optimize production costs, improve product quality and could make it possible to recycle at the end of the life of the building from which

Lightweight system for constructive means organized a series of technical knowledge and execution phases by means of which may be a construction characterized by precise technology strategies, organizational and material use in building an innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ™ICF

. The lightness is the result of a balance between energy and matter, between necessary and unnecessary, including lightweight materials and structural choices, the system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF is intended as a strategy modification able to interpret the new requirements for design flexibility, the renovation of space and conversion of the functions assigned to them, issues
related to changing social structure, has become less and less sedentary. The continuing need to have a broad and light systems has triggered the search for technological innovations that give rise to new technology implementations on the

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offering significant structural and design advantages thanks to its modular design of the elements that characterize it, through the optimization of its component materials, connections, mounting and assembly, combining design and technology, for example in the planning, implementation and management site.

The **innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF** offers a proper project, which aims to build a seismic structure, is on the one hand, and differentiate into separate parts to efforts traction from those under compression, the other, put in special care in the choice of materials with special characteristics of resistance to the kind of planned, in order to reduce the thickness of the walls bearing armed values while maintaining the same thermal exclusive sections of traditional masonry. The dynamism, survivors, assembly of materials with its elements, precision design and compositional rigor, featuring different systems and lightweight construction as the

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The experimental research in this direction, develop building types that benefit the space flexibility, repeatability modular, easy and quick transport of its elements, and the prediction of reversibility of the structures realized of

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and a close relationship between architecture and environment and environmental issues linked to it. The search for lightness, in contrast to the massive construction prefabricated factory (concrete walls are not insulated), leads in building monolithic continuous-bearing walls, and even on chassis pillars of concrete as part of wall partition characterized by ease of use and installation. This type construction of

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is completely dry in its assembly, modular in its elements and this makes it possible to prefabricate most structures, monolithic, making them directly in the yard, giving him only the final assembly phase of the elements that characterize it for its unique performance.
The assembly "dry" of innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF

The assembly is a dry technique in which the artefact building is achieved through the combination of two or more different elements. Assemble Dry in the elements of the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF has joined with technology of mechanical joints (connector of polypropylene) made a precise solidarity through constructive logic without the use of connecting to consolidate after the installation, such as mortars, adhesives and sealants.

The elements of the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF already finished from the point of view, as previously worked, are assembled each other and / or with the elements of already made. The parties subject to the procedures of the assembly may, in fact, apply only to some elements of the building or extend to the whole body of architecture.

The procedures for assembly on site of the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF requires that in the production of both solved the problem of the connection and integration between the elements construction is a formal and technically. In the first case there is a need for dimensionally compatible, during erection, elements from different productions, in the latter case the need to make them connected to each other in order to simplify and accelerate the procedures for implementation and this characteristic and makes it unique in the world for the flexibility and

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Those components that make up the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ICF are predisposed to the assembly as a Lego (children's game) in the pipeline. They once demolished by the end of life can be recycled or reused as relief material to be mixed in cement
being completely reusable and recyclable 100%.

"In the industrial era of the third millennium, reaching the more mature experiences of industrialization building energy-saving, techniques for assembling dry bids from 'exclusive and innovation system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ™ ICF emerge in an increasingly clear as a new paradigm of building ."

These building techniques that make it unique and characterize the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ™ ICF is, in fact, a reference point to give concrete answers to the needs of the modern building called a confront the following issues:

- Building with the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ™ ICF does reduce the time of construction by about 50% and superimpose the design with that of construction;
- Building with the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ™ ICF means to attain a high level of flexibility in use of energy saving achieved or standard CasaClima Italy.
- Building with the innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus ™ ICF
is considered the world's unique system of construction that provides some savings in the management of buildings from a minimum of 50 to 90% in the cost of heating and cooling rates lower insurance costs and less maintenance.

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is to create a residential housing with higher structural performance is airtight without penetration air, block the mold and humidity, outside of being a material compatible for allergens, delete and block noise from outside.

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also create an environment more comfortable with more space, in terms of living space of your home.

- In addition to being good for you, system formwork ICF components are 100% recyclable and environmentally friendly.

- Building with the **innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF**

will use less natural resources for the construction and in the shortest amount of fossil fuels are used for heating and cooling of buildings (Standard CasaClima Italy) to save power.

The ability to design and implement the parts of the building in different places, to assemble the elements later in the yard in the short term, coupled with greater ease in replacement of which might be poorly laid out, leads us to consider such techniques "a key component of design, featuring not only the executive steps, but speaking from the early stages of the design to achieve. The introduction of dry-building techniques in the world reaffirm the validity of the **innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF** that lets you predict with good accuracy the timing and stages of labor in situ promoting better planning of operations to be carried out and limiting the maximum idle time in the implementation, which will inevitably cause the increase of construction costs. (Classic problem in the construction method and performed with traditional materials) "Although commonly assembly of components such as **innovative system constructive insulating permanent formwork for reinforced concrete of polystyrene foam in blocks thermal acoustic EPS SmartBlockPlus™ ICF**

is considered as a specific technique of industrial construction, we must emphasize that today it
The constructive system "dry" insulating permanent EPS SmartBlockPlus™ ICF interacts strongly with perfect and methodological aspects of doing architecture, so that they can be considered a real technical edge design. A reading of historical buildings conducted by studying the techniques shows that many buildings, ancient and modern, in a wide geographic areas, have been realized through the combination of dry elements worked out by the foot or yard work. In pre-industrial culture of the third millennium, these building techniques offered by dry assembly

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were the result of consolidated material cultures, capable of making wise use of resources the surrounding environment provides. An example is the use of materials and challenges such as polystyrene foam which consists of the

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and for their unique characteristics required to use dry blending in almost deterministic, for example in the planning, implementation and management of a building environmentally friendly energy saving.

**ENERGY SAVING** = Housing homogeneous, Façade, Skin insulation, double-skin facade insulation, double wrapping insulation, ventilated facade, facade integrated double insulation, Housing hybrid Façade Activate, Façade Interactive.

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