

turnovers, or budgets, there should not only be the satisfaction of having done something, but especially the priceless feeling of having "done it well".

Alberto Cocco

MAGAZINE 02 15

INNOVATION FOR ARCHITECTURE

by ETERNO IVICA socio ANIT ANIT NO PROPERTIES NO PROPERTIE





Creep describes the reaction of impact-sound insulation materials over

time...

Materials with very high creep values lead to major inconveniences over time...



What the EXPERTS say:

We met Mr. Valotto and asked him a few questions for our now regular column on the fascinating world of sound insulation...

A special material is now all the rage in today's sound insulation market: TXT, by Acustica Sistemi by Eterno Ivica. Let's compare it with other materials available on the market.

After further testing and analysis, presentations and assessments, we asked Mr. Michele Valotto to give us some insight into the performance of TXT compared to other materials available on the market, the advantages of this product and the added value provided by TXT to the building market.

Mr. Valotto, considering the chart below, could you explain to us what the CREEP - or viscous flow - is, and why it is so important that your new product TXT has such a low value for this parameter?

The chart shown here is a comparison between TXT and other products in the market, based on a very important parameter called "viscous flow", commonly known as CREEP.

Creep describes the reaction of impact-sound insulation materials over time when subjected to a continuous load of 200 kg/m2 (the floor screed).

There is a standard time frame for calculating this parameter, which is 7 years and a half.

This measurement confirms that not all impact-sound insulation materials are the same, in fact they are subject to constant and continuous deformation (the flattening process), and shows us in detail how much of their original thickness they lose in time.

The higher the percentage, ie, the higher the percentage value, the lower the performance of the material in question; as you can see from the chart, one example of this is recycled rubber, or polyester fibre, as their initial thickness is reduced by half.

According to the technical literature and the experience gained over the years, the CREEP value of a material should be less than 20% of its original thickness for it to be considered a high-performance product; where this value reaches 10%, it is considered an excellent quality product.

Recycled rubber, polyester fibre, polyethylene with bituminous membrane and TNT have a percentage higher than 20%; as a result, these materials are not suitable to ensure the performance required by law over time.

Materials with very high creep values lead to major inconveniences over time, such as the lowering of floors, and the resulting cracks between floors and baseboards; cracks in the tiles and plasterboard walls above the floors; and, of course, the technical performance of the product is significantly reduced. This results in visual, static and acoustic defects, as the product chosen for sound insulation is no longer able to soundproof and loses its original features over time.

This can happen after a few years, but unfortunately, all too often, it happens just a few months later. Sometimes, even during testing, values are significantly worse than envisaged in the design phase.

The creep is a very important parameter, and Acustica Sistemi has always invested heavily on improving it.

Our Ecotex TXT has more or less the same features as other time-tested products designed by our company (such as DYNAMIC DPCM), in fact it performs even better: after the latest laboratory tests conducted at the university of Trieste, we found a CREEP value of around 5%, offering a great advantage to all.

Does TXT offer any other advantages? If yes, what you are the most important?

There are many advantages, especially from an environmental point of view,

and also in terms of technical design for architects and engineers. TXT is innovative just for the fact of being a highly recyclable material; wool, linen, cotton and silk blended together, milled, carded, bleached, sanitised (to make it even more sophisticated), make it a unique new material. These fabrics are held together by polypropyl-

ene, which is the same used for Eterno Ivica's traditional products, supports and unions, which is also completely recyclable and recoverable despite being a polymeric material.

In addition, TXT meets all the parameters of CAS-ACLIMA, ITACA and LEED protocols

construction; it also meets ethical evaluation criteria fo

for sustainable

project specifications, according to which any recycled or recyclable materials will add value to the project in question

and earn it more points in calls for tenders, thus improving its position. The price becomes much more advantageous for public administrations and there are advantages for everyone in terms of quality, value and technical performance.

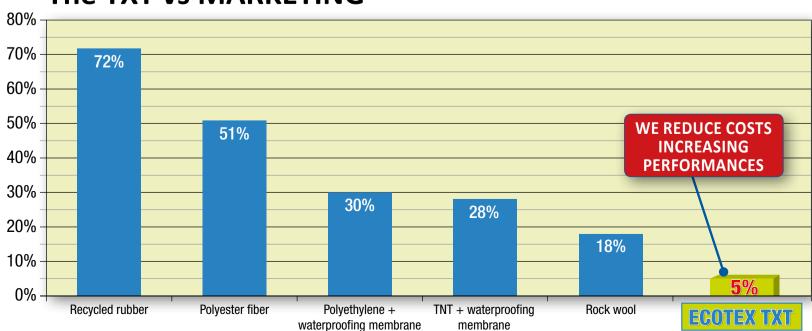
This product was initially designed for impact-sound insulation, but it later turned out to fit perfectly with other traditional "Acustica Sistemi" products, for example, combined with plasterboard or in the hollow spaces of bricks, thus giving

us the opportunity to create a new line, already launched in the market, in which TXT has replaced "old springs".
The short-term result was a substantial in-

crease in orders of this material, which is considered a valuable product, especially for its quality/price ratio.

After this successful start we can only hope for the best, especially if we consider that the market has long suffered from a lack of innovative products that could permanently solve sound-insulation problems.

The TXT vs MARKETING



CONSIDERATIONS FROM MADE EXPO MILAN AND KLIMAHOUSE TUSCANY





MILANO MARCH 18-21, 2015







On April 17 to 19, the Leopolda station in Florence was the venue for Klimahouse Toscana, an event dedicated to the construction industry; energy efficiency, property improvement and slum clearance were the main topics.

During the exhibition, more than 130 industry leaders presented the most innovative products to improve energy efficiency in any

Eterno Ivica was there too, as part of the sound division, to present its latest TXT technology, previously exhibited at Klimahouse Bolzano and Milan's MADE EXPO.

It's called "Acustica TXT", the first acoustic insulation derived entirely from recycled textile materials; the new TXT has sound-absorbing and anti-echo properties, and can successfully replace the polyester fibres and rubbers used so far for all other sound-insula-

It is a completely innovative "green" approach to sound insulation, which uses recycled and recyclable fabrics - cotton, wool, linen and silk, carded and bound together by a polypropylene material - to give incredible results.

This new solution, discovered almost by chance in November 2014, was immediately patented by the company for both trade names and intended use. The 2015 marketing campaign of Acustica Sistemi by Eterno Ivica clearly focused on the latest addition to the TXT family, which has replaced traditional springs in Acustica Sistemi's most popular products.

With TXT, Acustica Sistemi by Eterno Ivica has regained its role as an innovator in the field of sound insulation, setting new standards of sustainability and the right balance between quality and price.



CONSTRUMAT TRADE FAIR IN BARCELONA



Beyond Building Barcelona: the new Construmat goes "beyond"...

The new edition of **Construmat**, a landmark event for the con- Under this new perspective, Barcelona's building and construction struction industry, was held on May 19 to 23, 2015 with a new format and a new name.

It became Beyond Building Barcelona, because it was transformed, it went "beyond", "to suit the needs of the industry and contribute to its dynamism", said President Josep Miarnau. The aim of Beyond Building Barcelona was to demonstrate that Fira de Barcelona wants to offer more than a traditional trade fair. And they nailed it.

For this reason, the exhibition area had a new layout, dividing companies according to their expertise, and providing new interactive areas for professionals in the industry.

The new director of the show, Jaume Domenech, architect and urban planner, stressed that "Beyond Building Barcelona is a new way to connect supply and demand through increased interaction", which has expanded, and is expanding, into various areas of the industry, including hotels, offices, commercial and residential

Beyond Building Barcelona was a hub of innovation, with meetings and discussions on smart homes and home automation solutions, from the latest design trends to sustainability, through to the restructuring of buildings.

show aimed to make a major contribution to boost companies' business opportunities.

This is also why a strong focus was placed on the new Foro Contract Internacional, with the presentation of 150 construction projects from South America (Brazil, Chile, Peru, Uruguay, Mexico and Colombia), North Africa (Tunisia, Morocco and Algeria)

The organisers have brought together in the Foro Nacional 50 projects that are currently taking place in various regions of Spain. Alongside the commercial offer, Beyond Building Barcelona provided a comprehensive programme of technical conferences, seminars, lectures and presentations.

Eterno Ivica took part in this important international event with a brand-new, evolving "look", notching up success and excellent

Our constant presence at trade fairs and in markets worldwide, as well as the collaborations and synergies we create on these important occasions, is what makes us a leading, innovative company in

It was important to be there, and we will be there again!

FUORISALONE

Eterno Ivica "SUPPORTS" Fuorisalone

Fuorisalone is an event that takes place every year in Lombardy's capital city in conjunction with the Salone del Mobile, to mark the Milan Design Week. Along with the Salone del Mobile, this is the world's most important event in the field of industrial design, in particular the furniture sector.

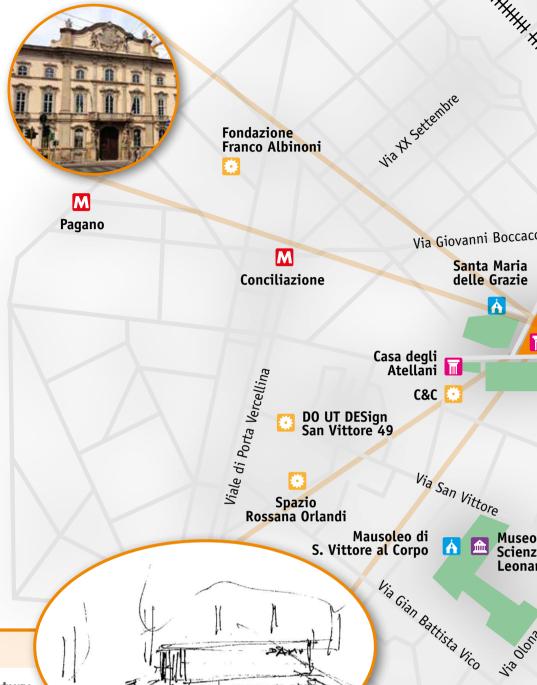


Organised for the first time in the 80s as the original brainchild of some major companies in the furniture and design industry, **Fuorisalone** aims to promote and spread the culture of design, while also devoting special attention to other areas including technology, telecommunications, art and fashion.

A reference point for many "Design Weeks" worldwide - such as London, New York, Paris, Dubai, Miami, Beijing - Milan's Fuorisalone aims once again to promote its inimitable excellence, culture and originality, and no other city around the world has yet been able to outdo, or at least match, the great Milanese event.

More than 400,000 visitors, a € 250 million turnover, 1,200 events held in the city, 1,000 companies exhibiting their products at the **Salone Internazionale del Mobile**.

Fuorisalone is organised as a number of events spread across various areas of Milan, such as: Zona Tortona, Ventura Lambrate, Fabbrica del Vapore, Brera, Triennale di Milano, Porta Romana, Porta Garibaldi and Corso Como, and San Gregorio Docet.



<u>LITTA BEACH</u>

by Marcio Kogan - MK27

Just a few steps from the Triennale and Cadorna station, the seventeenth-century courtyard of Palazzo Litta was the backdrop to the installation designed by Marcio Kogan - an internationally renowned designer who founded Brazilian Studio MK27 – and created by Casone, a leader in the extraction and processing of stones and marble.

This was part of a broader project called **A matter of perception** - a series of events organised by **Mosca Partners** in collaboration with **DAMN°** magazine - which included projects by leading architects and designers such as Michele De Lucchi and Andrea Branzi, Humberto and Fernando Campana, Jasper Morrison, Punkt., Studio Irvine, Hans J. Wegner (PP M.bler), Emmanuel Babled, XAM, Mario Trimarchi, Ben Storms, Arkof, Galerie Křehký, Triennale Design Museum and Design Memorabilia.

The installation consisted of a 16x16 m floating square platform made of Deep Gray Stone - featuring an extremely light feel emphasised by delicate LED strip lights outlining its silhouette - and a glass pavilion, a workplace and back office.

The outer edges of the flooring were outlined by a 1x1 m, 10-cm thick

string course made of natural Basalt. The structure of the office was built by **Capoferri**, a time-honoured company traditionally specialising in doors and windows, which now has a contract division that contributed to the Litta Beach project with its expertise, alongside **Eterno Ivica**, which supplied high quality supports for raised floors.

Several pieces of furniture are scattered across platform, including **Side-Table**, a chair/table designed Marcio Kogan himself and created by Casone from Noire Doré marble. The very nature and arrangement of furnishings made the whole place look like a large, intensely dark beach.

Playing with contrasting materials, the open floor plan of the "beach in the courtyard" was a widely appreciated invitation to exchange views and interact.





Marcio Kogan founded Studio MK27 in the early eighties. Born in Sao Paulo, Brazil, he graduated from FAU-Mackenzie in 1976. He initially worked as a film director, but after the flop of his first feature film, he had to "settle" for working as an architect. He is responsible for all projects of Studio MK27 and works as a teacher at Escola da Cidade in Sao Paulo.

Studio MK27 is now made up of about 28 architects and collaborators.

Looking to Brazil's modernist generation, the team of architects is now trying to fulfil the hard task of rethinking and giving continuity to this iconic architectural movement. While always paying great attention to details and finishes, the projects designed by Studio MK27 are based on simple shapes and lines. Marcio Kogan is an honorary member of AIA - American Institute of Architects, a teacher at Escola da Cidade in Sao Paulo, and is con-

April 14-19, 2015



CASONE

Covering from small to large-scale projects, from concept to completion, Casone focuses on the specific features of stone to bring out its peculiarities.

Casone is a leader in the extraction, cutting and processing of stone and marble for architectural and ornamental uses. The company manages stone deposits located in two of Europe's major quarrying districts: Verona and Carrara. From an operational standpoint, the company conducts its business in the area of Firenzuola, a mining basin located along the Tuscan-Emilian Apennines, where it manages four quarry sites, as well as cutting and processing plants divided in four industrial sheds which, together with the administrative headquarters and two decentralised deposits, cover a total area of 10,000 square metres.

From surveys to design, from installation to surface treatment, through to production, Casone provides qualified support and advice to customers. The goal is to address all aspects relat-

ed to the use of stone from the very beginning of the design phase, making the most of this special material. A thorough knowledge of stone and marble allows the company to bring out their specific features, in terms of both design and technical performance. Casone carefully selects raw materials according to very strict criteria, adopting a very innovative approach and

constantly developing new materials and surface finishes with both manual and mechanical techniques.

Casone also offers an important pre-installation service, simulating the actual installation of worked pieces on the construction site, in order to further select materials, test them, and package them carefully after examining and numbering each piece individually.

Covering from small to large-scale projects, the company aims to offer a guarantee of quality in the field of interior design (coatings, flooring and decorative surfaces for the Home and Retail sector), public spaces (square and street paving, street furniture) and architecture (large internal and external surfaces); through ongoing dialogue with designers, the company manages to meet even the most challenging and complex demands.

Thanks to enlightened corporate strategies, ongoing commitment, and well thought-out business decisions, Casone is not only a key player in the Italian market, but also appeals to international markets; high levels of quality and technological expertise led to the company's growing success both in and outside Europe (North and South America, the Middle and Far East).

Casone has always worked with architects of national and international prominence, including Kengo Kuma, with which they established a long-term collaboration, but also Herzog & de Meuron, Yoshio Taniguchi, Hans Kolhoff or Grafton Architects.





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people in Brazil He was also included in The Wallpaper* 150 Famous for 15 Years.

Since 2001, when Kogan decided to adopt a co-creative, collaborative approach to work in his design firm, MK27 received more than 200 national and international awards, including: IAB (Instituto de Arquitetos do Brasil), Sao Paulo Biennale Architettura, WAF, Architectural Review, Dedalo Minosse, Record Casa, LEAF, D & AD, Spark, Barbara Cappocchin, Iconic, AZ and Wallpaper

Design Award.

Studio MK27 held meetings at the premises of important organisations and institutions, such as: Royal Academy of Arts, AIA, Société Francaise des Architectes, Clubovka, FAU-USP and Mack, FAAP, Politecnico di Milano and Valencia, South Florida, Rice, Texas. In 2012, Studio MK27 represented Brazil at the Venice Biennale.

ADJUSTABLE PAVING SUPPORT "ETERNO"

with self-leveling bicomponent head



It was the first. And it's still the only one. The Eterno "SE" adjustable support with a self leveling head was the first of a long series of accessories for exterior elevated floors.

It's a raised flooring accessory that combines superb technical features and exceptional aesthetics with maximum easiness of installation. It has come to be recognized as the market's most exclusive solution for dealing with sloping installation surfaces. In this regard, the product is capable of providing exceptional results thanks to its tilting movement, which is capable of compensating slopes up to 5%. The adjustment is performed using a regulation key which can be applied from above once the flooring has been installed and guarantees the precision alignment of the entire floor surface. This unrivalled product also boasts numerous additional advantages, which are enjoyed every day all around the world by architects, builders and installers.



ADVANTAGES:

- Self-levelling head that automatically justify slopes to 5%
- Adjustable height from 28 to 550mm once pavement is finished thanks to exclusive regulation key
- 320 cm2 smooth base support
- Entirely recyclable
- Resistant to temperatures between -40° to 120°C
- Resistant to acids and ultraviolet deterioration
- Suitable to any self-supporting outdoor paving system
- Protect by international PATENT
- Head with upper part of soft non-slip and anti-noise rubber
- Tabs easy to remove

CONSTRUCTION

CASE HISTORY

Planus EVALON®

For flat roof restoration

The material making up **EVALON**® membranes consists

of a polymer alloy of Ethylene-Vinyl Acetate (EVA) and

polyvinyl chloride (PVC) and is therefore a thermoplastic

Both components are solid substances without solvents

or plasticisers, which maintain their characteristics un-

changed over time and ensure a long product life cycle.

Thanks to this feature, **EVALON**® membranes can be used

in direct contact with the worn-out bituminous mem-

branes of flat roofs, which cause water infiltration. This

compatibility reduces the costs for:

Removing old membranes;



We met Claudio Pichler, **Technical Director of Riwega**

info@riwega.com www.riwega.com

• Melting the surface of bituminous membranes, turning them into the "glue" that holds the EVALON" V membrane

 Applying a primer onto bituminous membranes and then fixing an $\textbf{EVALON}^{\circledast}~\textbf{V}$ membrane (with a special glue) or a self-adhesive EVALON® VSK membrane;

• Mechanical installation of the **EVALON® V** membrane. Joints can then be sealed with hot air using special equipment (e.g. a SIEVERT DW2000 manual welder or SIEVERT TW5000 automatic welder) or cold-welded with

The new membranes can be installed with one of the following methods:



What is Riwega's position in the waterproofing sector?

Riwega has worked for four years in the waterproofing sector through its Planus division, dealing with flat roofs, terraces, green roofs and restoration of old bituminous roofs. We work as distributors of high-quality products bearing premium brands in the sector of synthetic membranes such as EVALON®, manufactured by alwitra, and Spectraplan® and Armourplan® by Iko Polymeric.

What are the main features of your solutions/products?

The Planus division offers medium to high quality waterproofing products. In particular, EVALON® products feature:

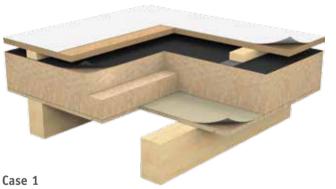
• Over 30 years of life for coverings exposed to the agents;

- Thermal reflectance of up to 90%;
- Moderate perspiration; it is not a vapour barrier;
- Compatible with bitumen; reduces restoration costs;
- Resistance to root penetration on green roofs.

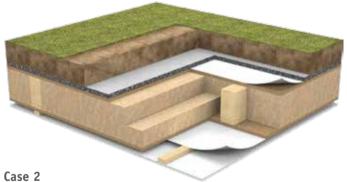
Why is Riwega defined as an innovative company?

Research and development are the company's main strengths. The market's technical requirements and the regulations under development are the starting points for expanding our offering with new materials, products and systems designed for solving all sorts of problems. We also adopted this approach with the Planus division, by adding products that aim to meet customers' most demanding requirements.

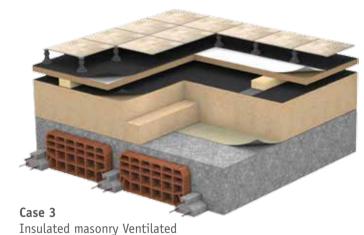




Beams Insulated Ventilated



Multibox Insulated Not Ventilated





Manufactured of PVC, it is highly resistant against low temperatures (cold flexibility = -40°) as well as perfectly compatible with any sort of PVC membrane. The flange is totally smooth for a perfect bonding to the waterproofing sheet. According to the length of 250 or 400 mm, the spigot is provided with two or

FEATURES

- Predisposed for the installation of leaf-guards
- Exceptional resistance to low remperatures

three couples of anti-infiltration rings.

- 250 mm and 400 mm H shank
- Two special backflow prevention flaps thickness 10 mm

ADVANTAGES

- Wide range of sizes from diameter 63 a 160 mm
- Adaptable to any type of drainpipe
- Wide flange



INTERIOR FINISHES



profilitec

presents

MULTI DRAIN

Linear drainage system

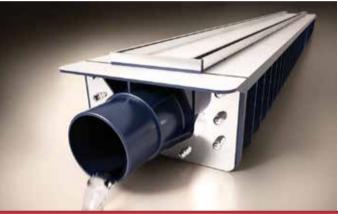
Multi Drain is a watertight modular linear drainage system designed for draining surface water.

• the reduced number of underground pipes, which are difficult and expensive to clear,

It can be used on both outdoor and indoor floorings. The system is made of ABS (Acrylonitrile Butadiene Styrene), a lightweight yet durable material, and consists of 1.50 ml channels that can be combined together with both lateral and central drains. Unlike traditional drains, this innovative system conveys surface water into an underground picking line that uses its inner slope to reduce the number of pipes and save on labour costs.

In terms of installation, the choice of a linear drainage system brings some important advantages, such as:

- easy assembly and installation;
- possibility to create appropriate geometric designs that fit the architecture of the building in question;



 the reduced number of underground pipes, which are difficult and expensive to clear, greatly increases the safety of the drainage system:

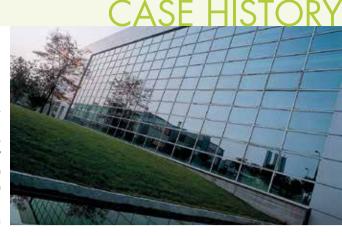
• easy cleaning of the outflow section.

What is Profilitec's position in the field of finishings?

Profilitec is an emerging leading company not only in the field of finishings, but also in the design of residential and public buildings. We expand our range with new products every month, also by taking into account the suggestions received from customers. We work closely with architects and design firms to develop products, shapes and materials that meet actual design requirements, using innovative construction solutions that comply with current quality standards. As a result, our products were chosen for major construction projects. Technical seminars and workshops are regularly held at our offices or at our customers' premises.

What are the main features of your solutions/products?

First of all, their technical functionality, which suits all situations and needs, their design, which has always been one of Profilitec's disProfilitec s.p.a.
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tinctive features, and a combination of the two in new and original ways.

Can Profiliotec be defined as an innovative company and why?

Definitely yes. Actually, "creativity" is the real catalyst of our "mission", not only with regard to products, but in every aspect of company life and customer relationships. In line with its history and tra-

dition, our company continues on its path towards innovation and improvement, marked by dynamism, creativity, search for new solutions and constant attention to detail.

Our team works every day to receive the requests of increasingly demanding customers, and then turns them into concrete projects with an unmistakable, distinctive design









"BENESSERE" PROJECT

PASSIVE HOME

The first certified home in the Po Delta region is in the town of Porto Viro (Rovigo)



The **Habita** project is the result of the joint efforts of two strong and well-recognised companies in the region of Veneto, namely in the area of Polesine: Zennaro Giuseppe legnami s.a.s. and Costruzioni Edilferro s.r.l..

Both companies are leaders in their own fields - timber processing and trade and constructions, respectively - and they share the same passion for working with attention and respect for the environment.

Habita is not just a brand, it's a philosophy that these two companies decided to share in order to create Homes with a focus on comfort, safety and environmental sustainability.

The aim of the project was to compare a "dry" technology and a "concrete block" technology within the same construction project. The Po Delta, more precisely the municipality of Porto Viro, is an area with very peculiar climatic conditions. The project provided for the construction of two symmetrical, adjacent housing units of 112 net square metres each, built with two different technologies: one using wood, with the X-Lam system and the other cellular concrete.

In addition, these buildings are constantly monitored with sensors that measure outside weather conditions and the level of

groundwater, but also the dynamic behaviour of the two construction types (starting with humidity and temperature levels in the EIFS, supporting structures, and interior comfort parameters).

The aim is to monitor the reaction and behaviour of both types of structures over time. The monitoring will continue for three years. In particular, for the wooden building, direct samples of material are taken every three months to monitor the possible formation of mould and mildew.

Due to its experimental nature and the scientific value of the monitoring process, the project was funded under the 2007-2013 **POR - "European Fund for Regional Development"** of the Region of Veneto.

This project laid the ground for a real **Best Practice**, an outstanding construction programme that could trigger a flywheel effect among operators in the industry. The building is experimental, but can surely be "repeated". All building systems and components used (doors and windows, blocks, sheets, sleeves...) are commonly available in the market. Another interesting aspect of this initiative is the network formed by three local companies to develop and implement the project. In times of crisis like this, creating synergies and networking is a winning strategy to react to the drastic reduction in the demand for new buildings.

"NZEB" - "Nearly Zero Energy Buildings". From January 1, 2021 all new buildings will have to be "nearly zero energy buildings". In fact, this very project is a "NZEB".

The primary energy demand for heating, cooling, domestic hot water, electricity for household appliances and auxiliary power is 119 kWh/sq m per year, for both units.

A high level of comfort level must be guaranteed. There must be a constant temperature of 20°C in winter, and 26°C in summer; humidity must be between 40 and 60 percent; even the concentration of carbon dioxide must not exceed the set limits. The building provides and maintains comfort in summer and winter without using traditional cooling or heating systems (radiators, fan coils, radiant panels, etc.).

Neither unit is connected to the gas network. The only source of power is electricity.



Habita is a project designed by Zennaro Giuseppe Legnami and Costruzioni Edilferro

Habita is the result of the joint efforts of two strong, well-recognised companies: Zennaro Giuseppe Legnami sas and Costruzioni Edilferro srl. Both companies are leaders in their own fields - timber trade and constructions, respectively - and they have a common passion: working in a natural way.

With the Habita project, these two companies (initially joined by Tumiati Impianti srl) have come together to set up a partnership for the construction of safe, healthy passive homes that ensure a high level of comfort.

COSTRUZIONI EDILFERRO S.R.L. is a company operating in the field of civil construction since 1981, to continue the work it had been carried out in the field of general constructions since the early 50s, gaining the expertise and specialisations that have made it a local benchmark in the industry. The company deals with design and research, public and private building, monument restoration and turnkey renovation projects, real estate transactions and land reclamation, with a strategic focus on innovation, advanced technology and quality. Tradition, quality, constant innovation and training are the pillars of the company and earned it a prominent position in the market.

The company **ZENNARO GIUSEPPE LEGNAMI** specialises in the field of timber and its derivatives, offering a wide range of products to meet all demands and requirements. Expertise and in-depth knowledge of market requirements make a winning strategy to provide targeted solutions in every field. Long and rigorous internal controls are carried out to ensure high quality and excellent customer service. The staff working in the company's in-house technical department, the heart of the construction division, designs and creates tailored wooden structures to suit all construction requirements The company philosophy attaches great importance to vocational training and the engagement of all human resources, developing regular training programmes and refresher courses.

eternoivica contributed to the success of PASSIVE HOME









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