











The innovative patented System
for roofing.

POLIMENI



SUMMARY

	The company and the services offered Our experience at your service with a technical and commercial network widely distributed throughout the Country.	PAGE 04
	The advantages The innovative system for roofing, lightweight, self-bearing, modular, ventilated, anti-seismic and extremely versatile. A good alternative to traditional solutions.	PAGE 08
	Cover solutions The system features make it easy to match to a wide range of products already existing in the market. Different proposals targeted for every need.	PAGE 12
	Finishes for ceiling and projections The system fits to different types of interior finishes and lateral projections. An innovative structure combined with traditional solutions.	PAGE 16
	Kit and standard interchanges A structure similar to "Meccano", very easy to build on site, to obtain endless modular combinations suitable for any project.	PAGE 20
	Self bearing structures – Easy Home Using the steel as a basic element allows you to create not lightweight structures without intermediate supports, opening the door to new applications of this patented system.	PAGE 24
	Antiseismic and ventilated structure Two innovative patents support the system: - Natural ventilation of the roof and the apartment below; - The earthquake-resistant system.	PAGE 26
	Roofing for photovoltaic plants and safety devices Among the different solutions, the system can be used for supporting photovoltaic plants and fall prevention devices.	PAGE 32

COMPANY

ADVANTAGES

SOLUTIONS

FINISHES

KIT

STRUCTURES

SYSTEM

ROOFING



We do not build roofs,
we build the Future.

COMPANY

POLIMENI®

A reality of men and high technology.

Polimeni company has over 40 years of experience in the manufacture of iron and metal carpentry.

Operating in continuous technological development aimed to the satisfaction of the customer, Polimeni is now able to offer a complete service for any type of construction, from carpentry to wrought ironwork, taking care step by step of all the stages, from planning to execution, providing advices and solutions for any type of intervention.

Founded in 1964 as a manufacturer of trestlework structures for the construction of greenhouses, the company now focuses its efforts on production of trusses and standard accessories in galvanized iron, giving technicians, engineers, architects and builders a patented, easy to install and cost-effective system to build ventilated roofs and covers in general.

A young company with many years of experience, a technical department consisting of about ten persons, including engineers and surveyors, an internal staff of about 40 workers and a commercial network with around fifteen points of sale throughout Italy.



Tettofacile Points and Responsibles

to receive further information
and see the materials

Piemonte

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Arch. Solitario Angelo Torino

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Geom. Tiscornia Ugo Genova
Ing. Rocca Claudio La Spezia

Lombardia

Ing. Porta Gabriele Milano

Emilia-Romagna

Maurizio Bianchi Parma

Toscana

Alberto Vestrini srl Firenze
Arch. La Porta F. Firenze
M.S. Rappresentanze snc Lucca
Studio Tecnico Casella Arezzo

Lazio

Geom. Armando Britti Latina

Abruzzo

Rainaldi Ezio e Figli srl L'Aquila
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Campania

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Come and
discover the
advantages

Calabria

Adlano spa Cosenza
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Edilsider srl Cosenza
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Ing. G. Boggio Metto Reggio Calabria
Arch. Antonio Principato Reggio Calabria

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Logis srl Cagliari - Sassari
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Tecnocasa srl Cagliari
Ing. Fabio Cambula Sassari
Ing. Roberto Gavini Sassari
I&G Dessole Sassari

Sicilia

Ing. Domenico Raudino Siracusa
C.S. Epipoli sas Siracusa
Sandro Caruso Palermo



Our experience
at your service.

SERVICES

Design, supply and assistance

Our corporate structure allows us to offer engineers and construction companies a tailored service of supply, planning, advice and assistance to suit different individual needs.

We offer an innovative and patented system, developed in different certified packages including our galvanized steel trestlework structure combined with various solutions of accessory kit.

Insulation, coating, internal finishing: project solutions devoted to quality and durability of the structure, still with reduced cost.

Our solutions offer advantages for everybody: the architect who is looking for new modular forms, the engineer who designs the cover, the building company that makes the construction, the final user who will enjoy a cost-free ventilated roof.

We strive to make everything easier, from design to assembly: what better name if not Tettofacile, Easy Roof?

And if that were not enough, the company Polimeni offers its customers a specialized assistance service for each phase of the project.

The engineers of our technical department will be able to answer your questions during the execution of the roof, offering a consultancy service for all occasions at any time.

A direct line between the world of the individual projects and the Company's experience, made of thousands of completed works. Besides that, on our website you can find all the information, the best design solutions, the product specifications and the answers to frequently asked questions.

www.tettofacile.it



Free Number
800.91.28.58





A solid supporting structure
without the weight of concrete.

ROOF SYSTEM

A highly innovative solution For the experts who know the limits of classical works in wood and concrete.

Tettofacile is a lightweight, versatile and easy to install system, ideal for making roofs and coverings in general, in a simple, fast and cost effective way.

Tettofacile is based on the use of lattice structures in galvanized steel, which does not require maintenance and ensure stability and durability over time.

The system also offers special advantages related to the ventilation of the indoor environment and to energy saving. The system Tettofacile, patented in Europe, is designed and created by the company Polimeni that for over 15 years adds improvements to the original design suggested by experience.

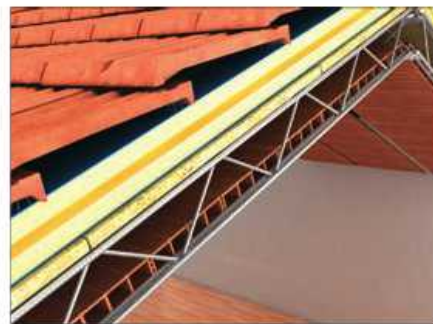
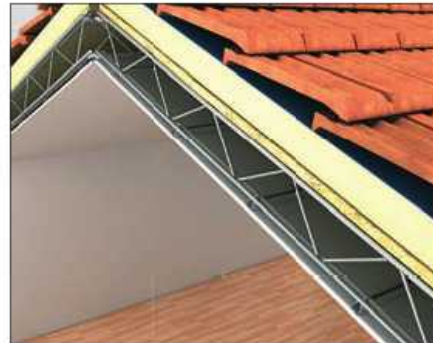
The roof that respects the environment: light and 100% recoverable.

The innovative system Tettofacile has been developed with attention to current regulations in the field of energy saving and environmental protection.

The limited weight and packaging of the materials that compose the structure helps to limit the waste of money during transport and at the same time, to minimize emissions of air pollutants.

The recoverability of the structure allows you to make a long lasting investment that is re-evaluating in case additions or renovations are required, even after many years after the first installation.

In fact it is possible to raise the roof, keeping the same "backbone" of the cover without wasting of perishable wood material, and therefore, without unnecessary felling of trees, so important for the air we breathe.



PATENTED
PRODUCT



European Patent Office

Published 21/01/2004
Bulletin 2004/04
Application n. 03013240.1
by Polimeni s.r.l.



ISO 9001:2000
EN ISO 9001:2000
UNI EN ISO 9001:2000



The best solution
for your projects.

ADVANTAGES

Many great opportunities for Technicians, Contractors, and Final Users.

SELF-SUPPORTING

- Realization of self-supporting, not pushing covers, without intermediate supports

ANTISEISMIC

- Equipped with devices to reduce horizontal seismic forces on structures.

LIGHT

- lightweight construction (8 / 12 Kg / sqm) in hot-dip galvanized steel.
- Ideal in areas at risk from earthquakes and city historical centres.
- Excellent ratio between weight - space - bearing capacity.

MODULAR

- A Meccano model structure to be assembled on site very easily, adaptable to any type of cover and shape of the roof.
- Standard kits for roof windows and dormers

RECOVERABLE

- entirely bolted structure, unalterable, maintenance-free and reusable in case of changes or elevations.

VENTILATED

- Innovative system for natural ventilation of the interspace, it increases the thermal capacity of the pack in winter and eliminates the accumulation of heat in the attic in the summer.
- A valid alternative to traditional solutions of a massive roof

FAST

- Exceptional speed of installation of the structure without the need for specialized workers.

VERSATILE

- Maximum flexibility in assembling and large margins of adjustment .



COVER

Lattice structure with insulated transpiring package



A transpiring solution, with cover and ceiling clearly separated by an air-ventilated intermediate gap

PACKAGE COMPOSITION:

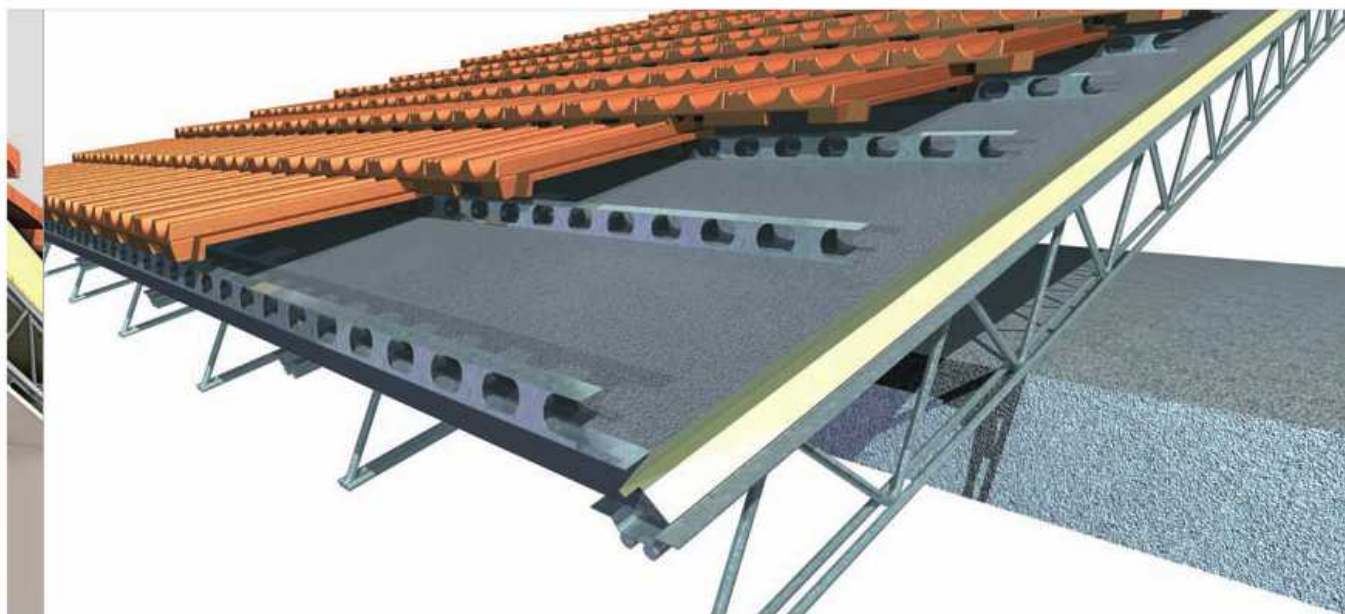
- 80 mm polyurethane foam panel
- 150 mm air gap
- 60 mm wood fiber insulation
- 20 mm matchboarding countertop



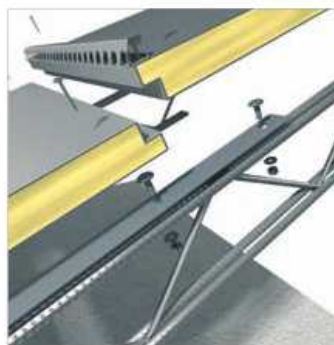
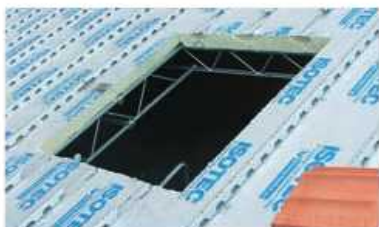
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Lattice structure with insulated transpiring package and tile support



Excellent insulation,
very fast installation.



COVER

Lattice structure with insulated
“fake tile” panels



Insulated tile-similar panels,
a lightweight and pleasant-looking
solution.

Ideal for low slopes.



Trestlework with tile bearing batten



Modular battens to facilitate
the laying of tiles.

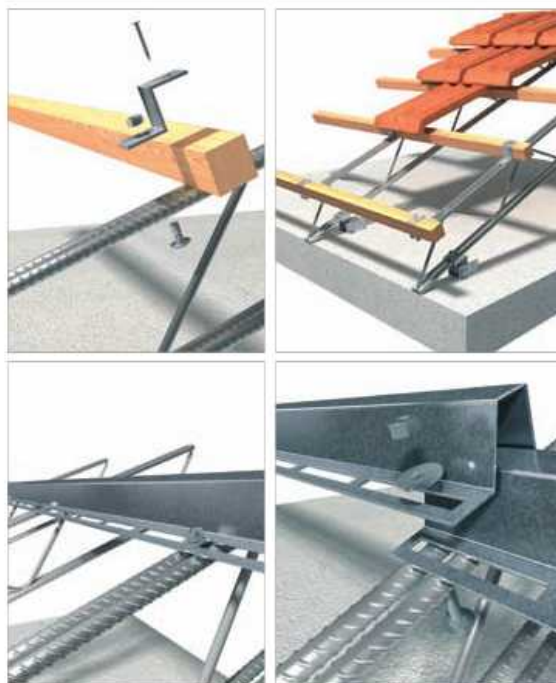


CONNECTIONS FOR WOODEN BATTENS:

Adjustable to any tile dimension or any change
in coverage.

METAL BATTENS:

To be fixed in place and record very easily.
Thanks to longitudinal gap across the entire length of the
pylons, you can register and set in place the supports
for the roof and mount any kind of insulation.



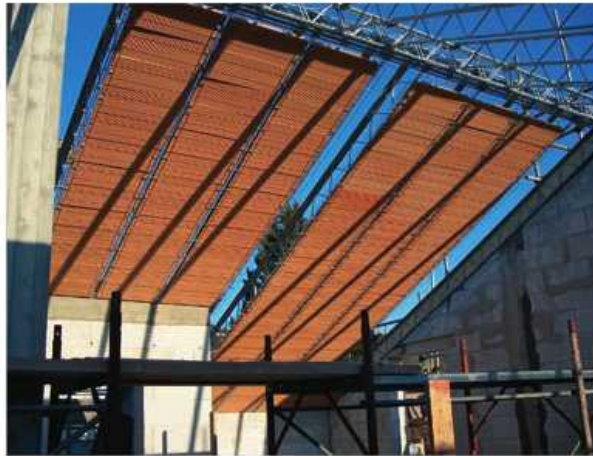
FALSE CEILING

FALSE CEILING IN HOLLOW BRICKS:

The typical appearance of a traditional roof, but without the unnecessary weight of concrete.

SUPPORTS FOR HOLLOW BRICKS:

Hardened galvanized steel brackets to hook in place easily, designed to support the bricks which will later be walled up in the gap close to each trestlework.



FALSE CEILING IN WOOD:

The warmth and appearance of wood, combined with the strength of steel.



FALSE CEILING IN PLASTERBOARD:

Light, fast and cheap solution with a good appearance



FALSE CEILING IN FLAT BRICKS:

The traditional look of the Tuscan roof, combined with the longevity of the metal structure.



FALSE CEILING IN PLASTER-SUPPORTING MESH:

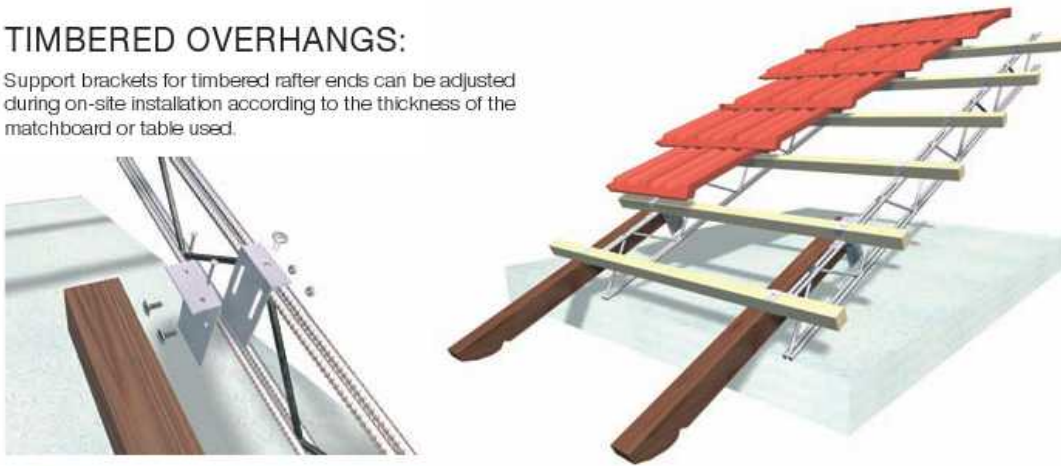
Effective barrier against intrusion. Panels in galvanized mesh for a light, strong and durable ceiling.



LATERAL OVERHANGS

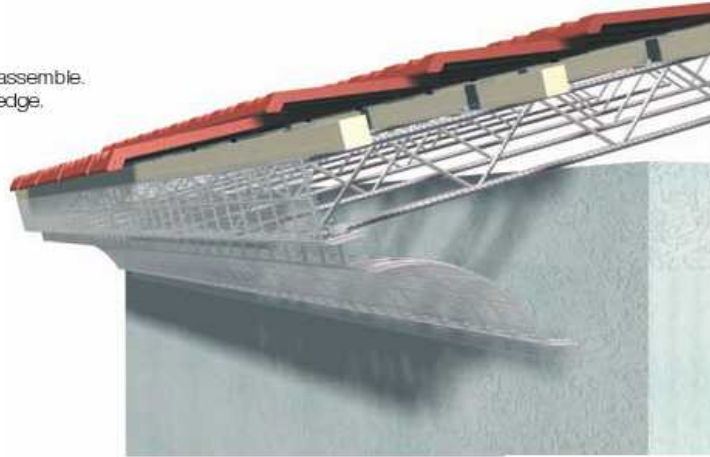
TIMBERED OVERHANGS:

Support brackets for timbered rafter ends can be adjusted during on-site installation according to the thickness of the matchboard or table used.



MESH LEDGE:

Lightweight, resistant, durable and easy to assemble.
It deletes the thermal bridge of a concrete ledge.

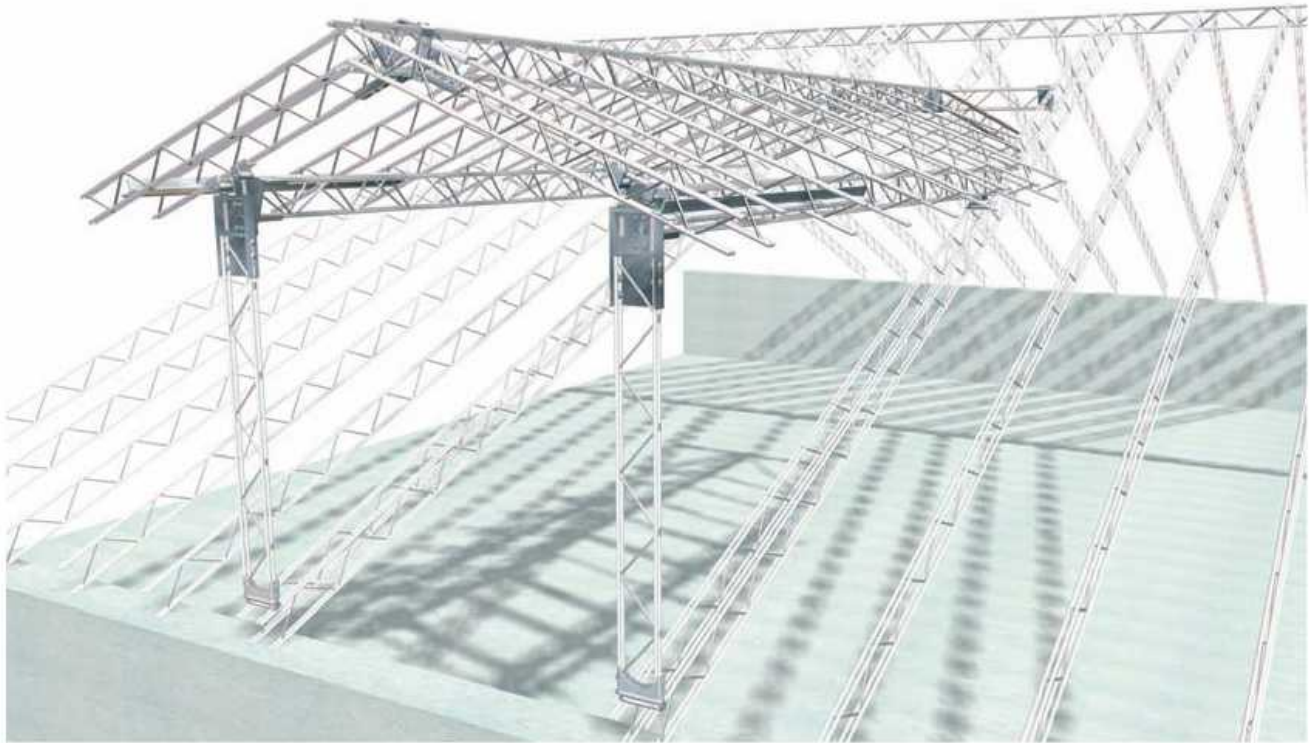


A useless weight.

A good alternative.



KIT FOR DORMER WINDOWS



FEATURES:

A series of hot-dip galvanized standard plates, combined with the metal trestlework structure allows to assemble dormer windows during on-site installation, so that the builder may decide at the last moment about their position and dimension.

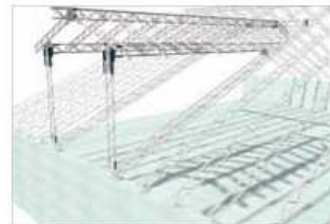
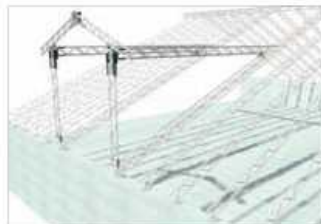
EXAMPLES OF USE:

Once assembled, this kit will turn into a real self-supporting and independent structure that can be easily installed on:

- Wooden structures
- Metal trestlework structures
- Steel structures
- Reinforced concrete structures

ADVANTAGES:

Promptly delivered hot-dip galvanized components
Possibility of building the dormer window during on-site installation thus avoiding potential mistakes.



Light, self-supporting, standard dormer windows, they can be adapted during on-site installation to any pitch dimension and slope.





A versatile solution
for all roofing projects.

MODULAR

Modular solutions, this is the future!

Tettofacile structures can be extremely light and durable with a very good ratio between the structural dimensions and the carrying capacity, while ensuring stability and resilience in the event of earthquakes.

All the elements of the system are assembled on site by means of bolts, no welding and drilling.

Based on standard components, Tettofacile fits with extreme modularity for different types of roofing, ceiling and roof shape.

There are also many standard accessory kit ready for any type of construction and finish.

Every detail is conceived to facilitate the design and especially the installation: Tettofacile is the most practical and convenient solution to use. The trusses are cut on site with a normal cutting machine. At any point in the trellis is being cut, it is always ready for assembly.

For the construction of a pitched roof it is possible to use a single measure of trusses, and the residual material for the shorter measures.

Zinco Tettofacile spray, supplied with the structure, is used to restore galvanizing on the cut.



SUPPORTING STRUCTURES



Resistance, compact size and light weight

SUPPORTING STRUCTURES

inserted between the pitch and wall trestleworks.

PORTALS WITHOUT INTERMEDIATE PILLARS

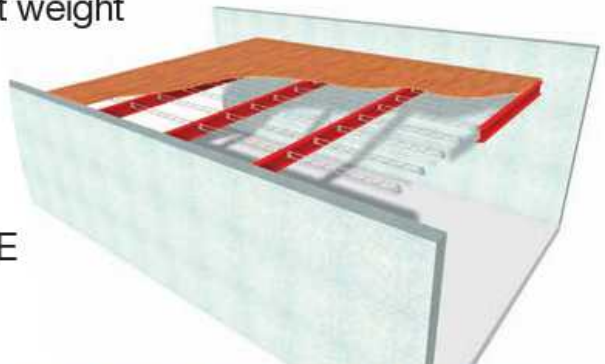
eliminate thrust with vertical beams and floor rods

VERSATILE JOINTS, ADJUSTABLE

in place for any structural requirement

EASY HOME

Lightweight structure and ventilated walls, ideal for precast.



The steel allows you to create supporting, effective and lightweight structures, not possible to realize with other methods.





The natural ventilation
makes house breathe.

VENTILATED

The cost-free solution.

Tettofacile provides the possibility to take advantage of lightweight and no mass structure that, thank to ventilation of the interspace formed by the trestleworks, is a good alternative to the traditional heavy roof.

The patented system prevents the accumulation of summer heat and insulates the apartment below from winter cold.

The functioning is managed by a control unit (PLC) with clock and temperature sensor.

The company has also developed a new chimney for ventilation that hides the pole for safety system (see page 34), thus eliminating unaesthetic poles of steel over the mantle and giving the possibility to install, even later, the fall protection equipment.



COOL IN SUMMERTIME,

SUMMER

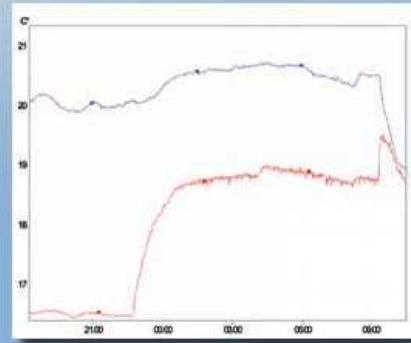
FROM 6 A.M. TO 6 P.M.

The sunlight gives motion to a natural ventilation that dissipates the heat before it accumulates in the roof and in the spaces below.

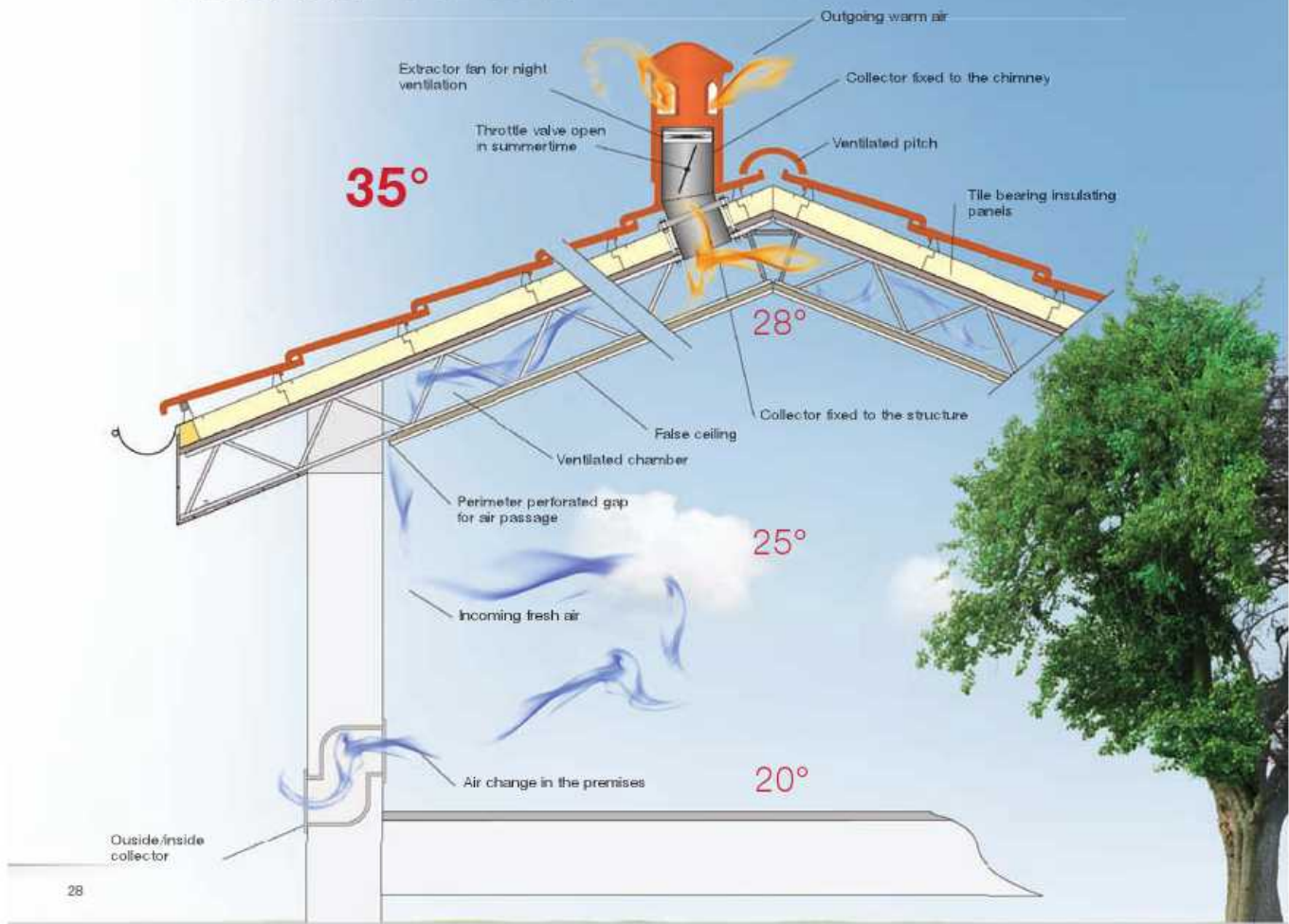
FROM 6 P.M. TO 6 A.M.

Throughout the night ventilation goes on mechanically and distribute fresh air from outside in the interspace of Tettofacile system and in the premises below.

Influence of interspace ventilation (T5) on internal temperature (T3)



Tettofacile[®]
STRUTTURE MODULARI



WARM IN WINTERTIME!

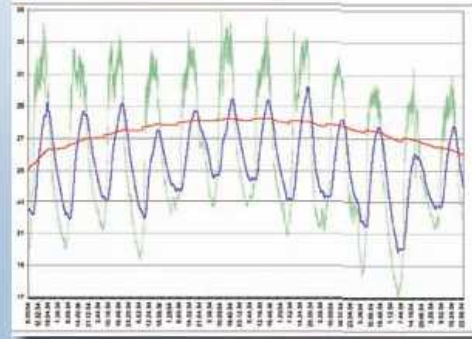
WINTER

DURING COLD HOURS:

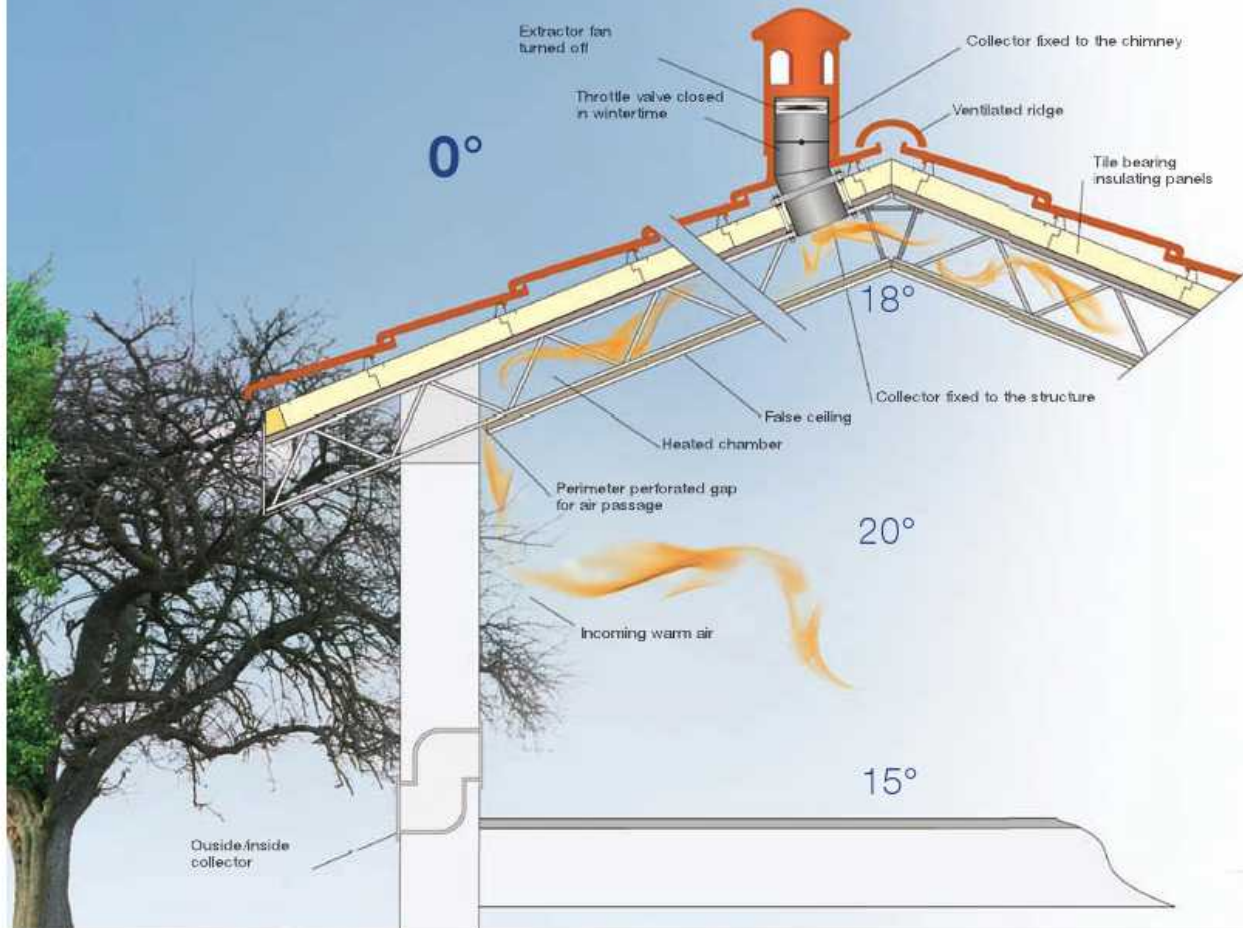
The throttle valve of the chimney is closed and the heat of the apartment, entering the perimeteral gap, helps to keep the warm air in system Tettofacile interspace, breaking the direct conduction of the cold from outside to inside, thus maintaining warmer the false ceiling and the premises below. Summarizing, the dispersion component of the false ceiling is eliminated.

FROM 11.00 AM TO 3.00 PM:

Opening the throttle valve will give motion to the natural ventilation of the attic causing a change of air that contributes to keep the premises healthier, reducing the formation of interstitial condensation and mildew.



— T° External
 — T° Ventilated Tettofacile
 — T° Concrete roof





For those who can look forward
to a solution to rebuild.

ANTISEISMIC



Antiseismic, lightweight and resistant structure

Innovative patented system

The intrinsic characteristics of the system Tettofacile (lightness, thinness, flexibility) fit perfectly with the principles of the theory of buildings in seismic areas; in fact they minimize the stress caused by the earthquake on the supporting structures below.

TRANSVERSAL ACTIONS

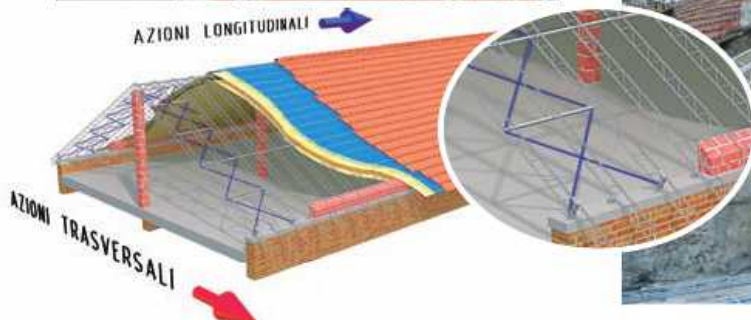
The possibility of rotation of floor anchoring reduces the effect of horizontal actions on the perimeter riddle.

This device, in fact, allowing limited rotations, reduces the effect of the seismic event, and keeps intact the anchoring of roof structures to the building below.

LONGITUDINAL ACTIONS

Moreover, the presence of the pitch reinforcements tenses the cover, and ensures a more even distribution of the horizontal actions on the parts of the building appointed to support gravity loads.

In case of an earthquake the structure is, therefore, able to limit the extent of the shock, damping the energy of the inertial forces and maintaining the carrying capacity.





New applications
for an evolving market.

PHOTOVOLTAIC

A solution that looks at the future

The exceptionally versatile and modular structure of the system Tettofacile allows you to assemble various types of roofs.

Covers with central pole(s)

Shed covers

Covers for pitched buildings



SAFETY DEVICES

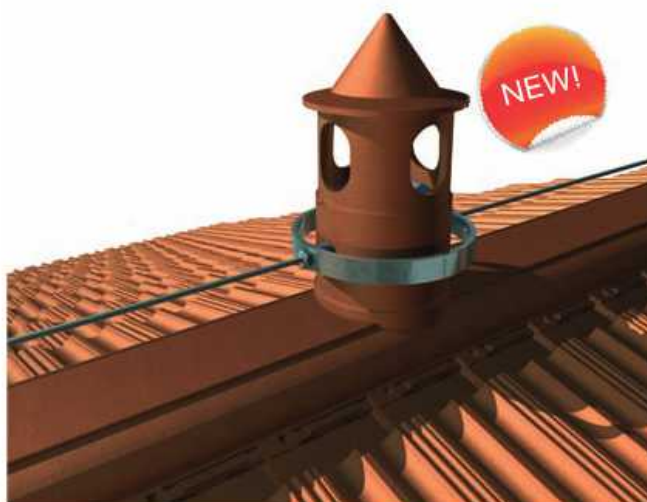
SAIE 2010 news: the safety anchoring inside the ventilation chimney.

Patent Polimeni srl

In addition to the trestlework structure, Polimeni proposes Tettofacile Sicuro, the fall prevent system with many advantages:

- easy to install
- safe and constant over time anchoring
- assembly on site by means of bolts
- without drilling
- no need of chemical resins, etc...

Polimeni also developed a NEW POLE inserted inside the ventilation chimney (see p. 25) thus obtaining the double advantage of removing any blemishes, like poles above the roof surface, and still giving the pre-arrangement for those who want to install the safety devices in the future.





POLIMENI



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