

CANDUCCI[®]
since 1940

Timber Building Solutions



Residential Building

The roof is to a building
as an umbrella is to people
standing in the rain,
as a dress is
to the human body,
as a blanket is
to the bed...

CANDUCCI SINCE 1940

It is the brand of the Canducci Family working in the timber business since 1940, today the fourth generation is involved and cooperates for the constant growth and development of the activity in the global construction market. The name Canducci is present in three family companies with independent management, offering the best technical and cost solutions, customized according to international norms and with certified goods.

CANDUCCI Holzservice Great glulam constructions, in Italy and abroad

CANDUCCI group The company for small and medium buildings in Italy La societ

CANDUCCI UK The England-based company that works in the UK market



1942 Canducci Bonfiglio al lavoro nel bosco

WE DESIGN AND BUILD STRUCTURES, SHELLS AND HOUSES WITH ENGINEERED TIMBER

We interpret clients and designers ideas and turn them into reality in the best possible way. Our experience gained through the participation at the building process of over 3.000 works in Italy and abroad, allows us to offer customized services and solutions, from the first project stages up to the installation onsite.

SERVICES

- Technical advice to designers and building companies.
- Feasibility studies and quotations.
- Working drawings and static calculations.
- Steel and timber shop drawings.
- Production plan and delivery logistic management.
- Installation coordination.
- Technical assistance.
- As Built drawings, maintenance plan.
- Material certificates.

PARTNERSHIP

To meet each single need of its customers and to offer tailored solutions, CANDUCCI works with the most qualified International manufacturers. The choice and the combination of the various products of engineered timber allows us to optimize costs and time to implement the works.

International Project Partner of the Austrian group Mayr Melnhof Holz, Europe's leading manufacturer of structural elements and panels.

Exclusive Partner in Italy of the American group LAMBOO, specialized in the production of structural elements and panels of bamboo.

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ENGINEERED TIMBER CONSTRUCTIONS





**Our mission is
the constant
improvement of
your living
comfort.**

Would you say it is a wooden house...



X-LAM Building System

X-LAM building system uses structural panels for walls and floors, formed by a number of layers of cross laminated boards. X-LAM elements are delivered to the building site and cut to size, with openings for doors and windows, ready for a very fast dry installation. It takes few days to build a comfortable and safe house on a simple concrete slab.

X-LAM offers entirely new options in terms of design allowing you to realize a tailored house.

X-LAM panels guarantee dimensional stability and thanks to their eco-sustainability, anti-seismic ability, fire resistance and installation speed have become a successful building system in Italy and in Europe. From the first three-story buildings, today X-LAM building system is being adopted also for buildings up to nine-story.



X-LAM Panel Facts

Thicknesses:
from mm 57 up to mm 378
Formats:
Width up to mt 3,50
Length up to mt 18,00
Layers: from 3 to 7
Certifications: PEFC, ETA



Inside and outside cladding

Building with X-LAM makes cladding easier, according to the technical and aesthetic customer's needs. The good insulation property of cross laminated timber and the absence of cold bridges improve the building energy efficiency.











Block Bau system

We use profiled laminated boards composed of two or three vertical boards placed side by side, with a double longitudinal slot. To form interior and exterior walls, the profiled boards are overlapped and blocked with screws and steel pins. The system typology and the product quality generally do not require further claddings. Block Bau is a very versatile building system, easy to assembly without using big tools or machineries. It is suitable for small constructions, such as little houses and bungalows



Profiled boards Facts

Wood species: Abete Rosso
Strengths: GL24h
Layers thicknesses: up to mm 45
Thicknesses: from mm 44 to mm 160
Width: mm 200
Length: up to mt 18
Surface: planed on 4 sides
Slightly chamfered edges
Quality: "visible" and "industrial"



Framing system

It is a traditional building system, which is popular in many countries for one or multi-storey buildings. The main structure consists in pillars and horizontal beams placed at a wide center to center distance. This allows to plan large span inside spaces.

The connections are made with steel plates and bolts. Secondary beams and decking boards or timber panels complete the floors and the roof. The high degree prefabrication and CNC woodworking allow a quick installation on the building site. All the benefits and the positive features of a timber construction are confirmed also with this building system.



Cladding

Facades and interior walls of a framed building do not have load bearing properties; they can be realized with plug and cladding systems of customer's choice, such as for example timber panels, thermo-acoustic insulation, exterior insulation and finish systems, fibre cement, plasterboards, ventilated facades and other materials, according to the desired aesthetic.



Three-ply Timber Panel

The three-ply solid timber panel stands out for its exceptional load-bearing capacity and dimension stability. This panel is characterized by high versatility, as it has both structural and aesthetic function and it represents a valid alternative to the traditional matchboards.

It is an important element for building, able to enhance the structures dynamism and lightness, thanks to its ability to allow the realization of frameworks with bigger spacing and to meet the various clients' needs.



Three-ply panel Facts

Formats:
500 x 200 cm
600 x 200 cm
Fingerjointed
up to 18 m lengths
Surface quality: visible on one side
not visible on both sides
Thicknesses:
from 20 to 75 mm



Wall Framing System

The wall framing system is composed by a load bearing framework with glulam pillars of spruce placed at close distance from each other, generally 60/70 cm.

The framework is then cladded with panels, such as OSB, in order to form a plate.

The load bearing wall has perform the structural functions; the pillars take up the horizontal forces while the cladding panels take up the loads acting on the plate as stiffening element.

The façade cladding is made outside the walls.



Modular living buildings

X-LAM building system is optimised and standardized for a quick mass production of modular buildings which are an effective reply to face up to critical situations, such as the after earthquake emergency in Abruzzo and Emilia.

In this cases, cheapness and construction speed are important factors, beyond immediate comfort and safety. The modular living buildings are also ideal for the construction of holiday villages, beach resorts and fixed or removable compounds which can be realized upon the project suggested from the client.

The shape freedom and the opportunity to use various completion materials allow a flexible integration with landscape architecture.



Kit Haus

Kit Haus is a flexible living space, suitable for various intended uses, which can be fixed or mobile.

It is composed of one or more modules which are fully pre-assembled in the production factory.

Floors, installations, insulation, cladding, doors and windows are already put together in the single modules according to a layout established together with the client. The roof can hold photovoltaic systems. The finished modules are delivered to the building site, in few hours they are joined to each other in order to obtain a ready-to-use construction.

Kit Haus system can be customized upon request. High-performances, convenience and safety are guaranteed at every latitude and longitude.



Building extension

Thanks to their lightweight and versatility, engineered timber building systems make building extension on top and side extension of existing constructions easier. Latest Italian and European laws for environment protection, allow citizens to increase their own living or working space. This kind of extension improve energy saving and add value to the buildings. Our dry building systems allow to reach better results and benefits than heavy or inflexible materials. Furthermore they reduce installation time and hence inconvenience to who lives in during the works.

Timber construction lightweight, especially for building extension on top, does not lower anti seismic safety. This kind of actions allow a redevelopment and promotion of the existing building heritage and guarantee a more sustainable use of urban areas.



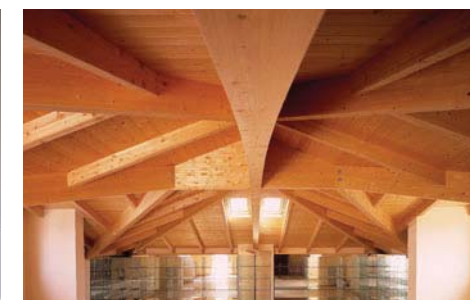
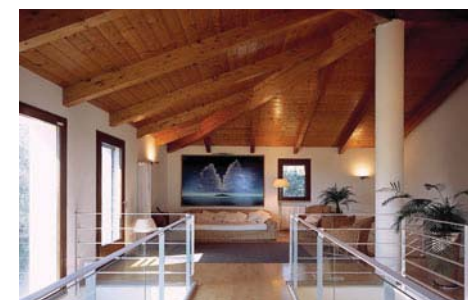
Roofs

The roof is the upper part of every building, It protects and preserves interiors against weather actions. The roof gives heat and highlights houses' aesthetic.

A timber roof is the best thing you can require for your house: free architectural shapes, great spaces for the attics, light and anti-seismic, natural and comfortable, quick to build.

An insulated and ventilated timber roof can be cladded with a variety of waterproof covering materials, from the traditional cotto tiles to the technologic metal sheets and to green roofs.

For centuries timber roofs have been used in every part of the world and continue to have a leading role now and always more in the future.





Glulam Timber

Glulam is a structural material consisting of lamellas glued together, of selected dried timber.

The most used wood species are spruce and larch. The European production factories, characterized by high performance CNC machine centers and continuous quality testing, produce curved and straight glulam beams, having a length up to 40 mt, the formats and shapes you wish, able to meet complicated static and architectural requirements. After planning, glulam beams are protected with impregnation products, packaged and delivered to the building site, ready for installation. Thanks to its mechanical properties and to international norms which ruled production and planning, glulam guarantee building safety and durability.



Glulam beams Facts

Widths: from cm 6 up to cm 28
Heights: from cm 12 up to cm 240
Lengths: from mt 3 up to mt 36
Strength classes: GL 24 GL 28
GL 32 GL 36
Wood species: Spruce, Larch
Quality: "visible" and "industrial"









Glulam Decking

When you wish to realize a floor or a low thickness roof, with few or without supporting beams, glulam decking is the ideal material. For this purpose, glulam beams are double jointed aside. The great load bearing property and the formats allow the quick construction of floors and roofs.

Glulam decking gives a remarkable rigidity, and in case of roofing structure, an excellent thermal inertia. Since few or even no beams are used, the height of interior spaces can be employed to its full potential. Furthermore glulam decking is able to give a more modern aspect to the building, without giving traditional timber warmth up.



Glulam decking Facts

Thicknesses: from cm 6 up to
cm 28 In multiple of 2 cm
Widths: from cm 40 to cm 120
Joints: cm 1,5
Lengths: up to 18 mt

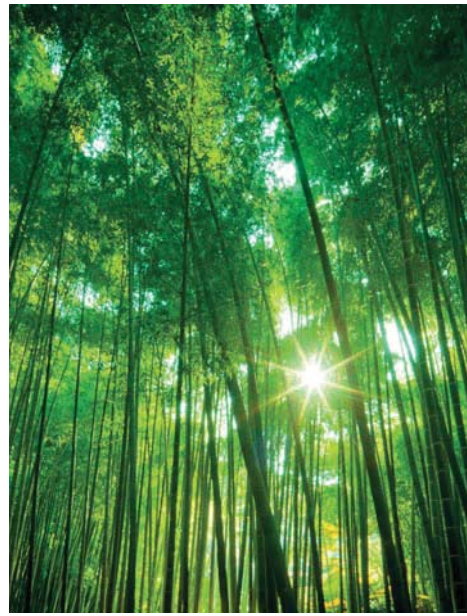


Structural elements of composite Bamboo

Composite Bamboo is a structural material characterized by remarkable mechanical and aesthetic properties. Thanks to its fast growth cycle, its availability and its molecular composition is considered to be one of the most eco-sustainable nature resources in the world.

The structural elements of Bamboo are realized with lamellas obtained by culms, that are the "trunks" of the tree, having a tapered circular section. The lamellas are vertically (or horizontally) pressed and glued together in order to form a building uniform element.

The result is a beam or a panel, identical to the solid timber beams or panels, but with an added value of high quality aesthetic, because the visible knots are very few so that it is possible to use these elements in interior and exterior design architecture.



Laminated Elements of Bamboo Facts

Lengths:
2,44 m - 3,05 m - 4,88 m - 6,10 m - 7,32 m

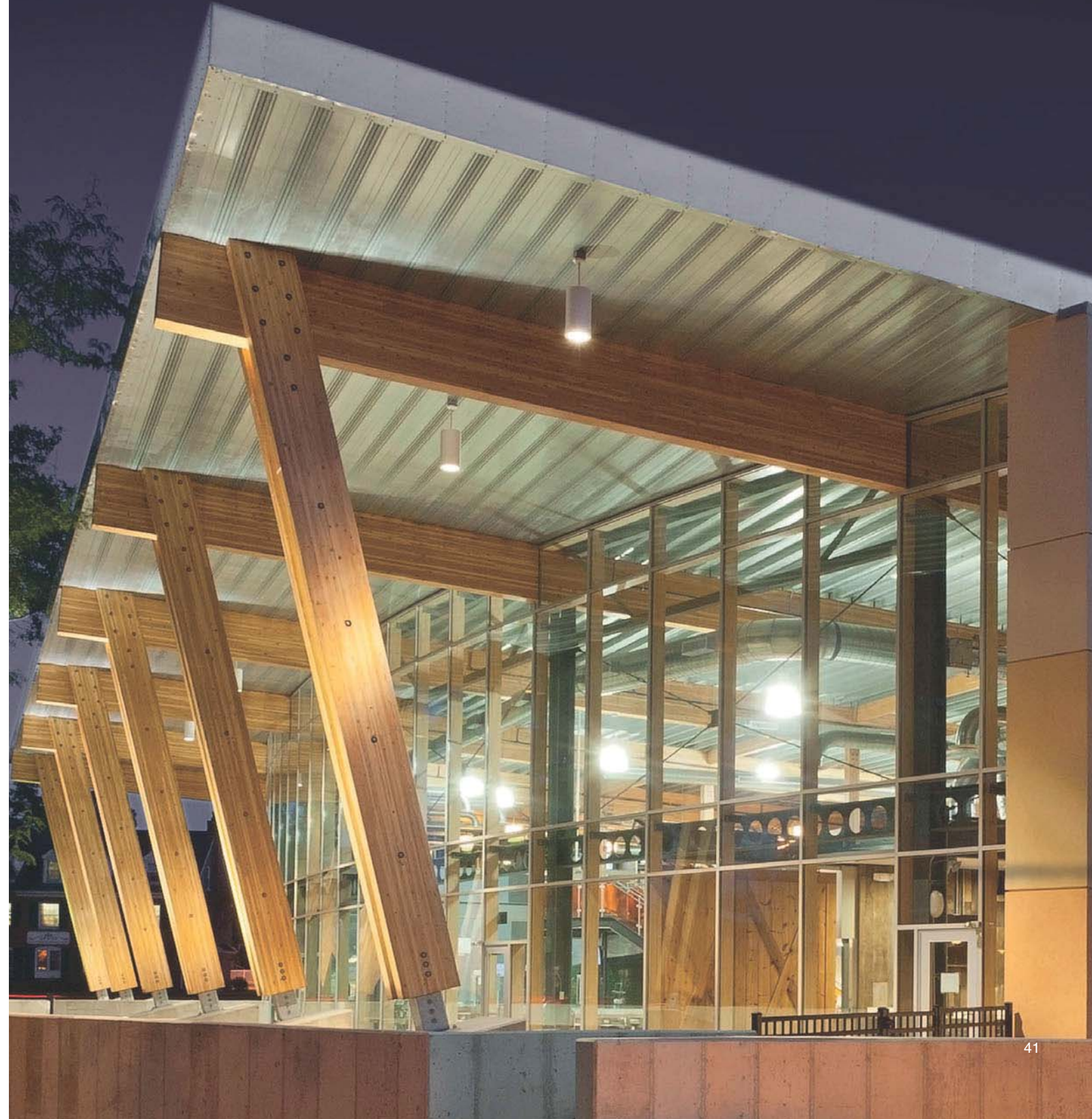
Thicknesses:
19 mm - 25 mm - 38 mm - 89 mm - 140 mm
Widths:
89 mm - 140 mm - 184 mm - 286 mm - 140 mm

Natural resistance to mold, insects and termites
High stability in temperature and moisture changes



The structural elements of bamboo arrive on the Italian market thanks to Canducci and the development of the exclusive cooperation with the American group LAMBOO. A cooperation based on sharing the same principles for tailored eco-sustainable buildings.

LAMBOO and CANDUCCI: strength and sustainability through innovation



Solid Timber

Old buildings, restoration, rural buildings and traditional-style new houses require the use of materials able to meet the aesthetic profile conceived by planners and clients.

Solid timber beams, rafters and boards come from certified forests, logs are aptly selected and cut in qualified sawmills. The structural design needs to find particular solutions, because solid wood is a living material which cracks and moves according to its inner structure and the environment where he carries out its function. We can supply solid timber beams of spruce, larch, chestnut and oak.



Parallel squared beams - Uso Fiume

They are obtained by log peeling, squared following a constant section, so that each side is parallel to the other along the length of the beam. The edges are chamfered.

Conical squared beams - Uso Trieste

They are like the parallel squared beams, but unlike these ones they are squared following the conic shape of the log. The edges are rounded.



Sharp edge beams

They are obtained by bigger logs, they have squared or rectangular section, which is constant along the length of the beams. The edges are sharpened, sometimes chamfered. According to the cross-section point of the log, it is possible to classify three typologies of cut: central cut; broken-hearted cut and cut out of center. The latter is more stable and shows less deformation, twistings and crackings than the other ones





Restoration and renovation

Timber is the most suitable material for old buildings restoration and renovation. Timber beams restore the load bearing structure without changing its original aspect and respecting the aesthetic and architectural profile of the work according to the original project. Taking into consideration the existing building materials, thanks to its lightweight, timber is able to keep the old walls resistance property unchanged and to avoid the load increase on the centuries-old foundations. Timber elements versatility allows to work in narrow places, such as old town centers, and to handle materials which sometimes might be difficult.

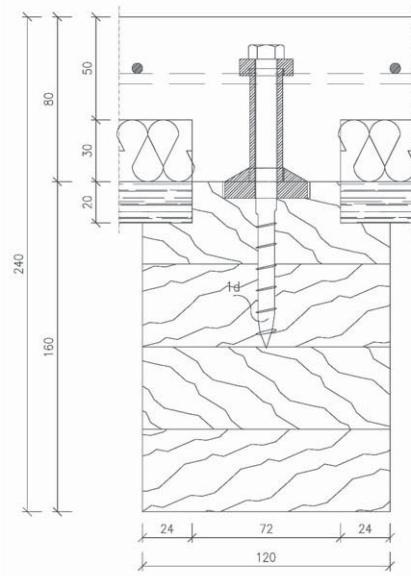


Composite timber-concrete floor

The realization of this kind of floors provides for making the concrete slab composite together with the timber beams through the connection with metal connector.

This high load-bearing performance system for anti-seismic floors allows to realize a visible decking using the traditional decking, panels of different kind or the classical hollow flat tiles of cotto, according to the desired aesthetic quality.

The floor having a composite timber-concrete section is a system which uses all the features of each material part of the floor and guarantee the highest performance in terms of structural efficiency.



Connector CHS® Benefits

The beams, dimensioned by our technical office, are delivered to the building site already impregnated, and with the connectors already inserted. Included are also the gaskets where the decking rest on.

PATENT APPLICATION
O2012A000428



UNIQUE AND SAFE

The beams, with the connectors already in, are delivered to the building site ready for installation. The production cycle, under the constant quality control, allows to certify the system and its performances.

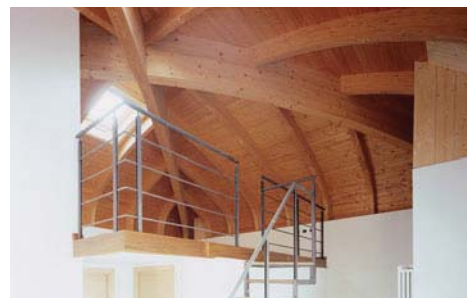


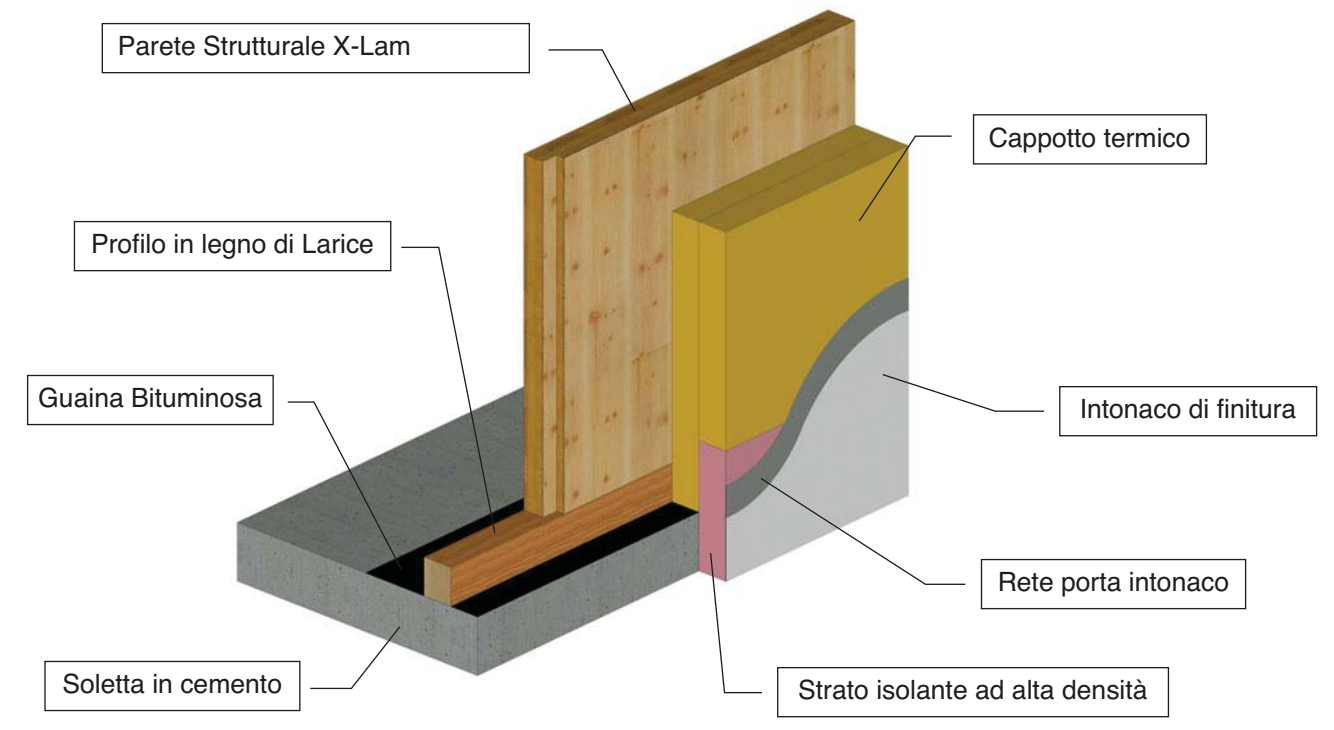
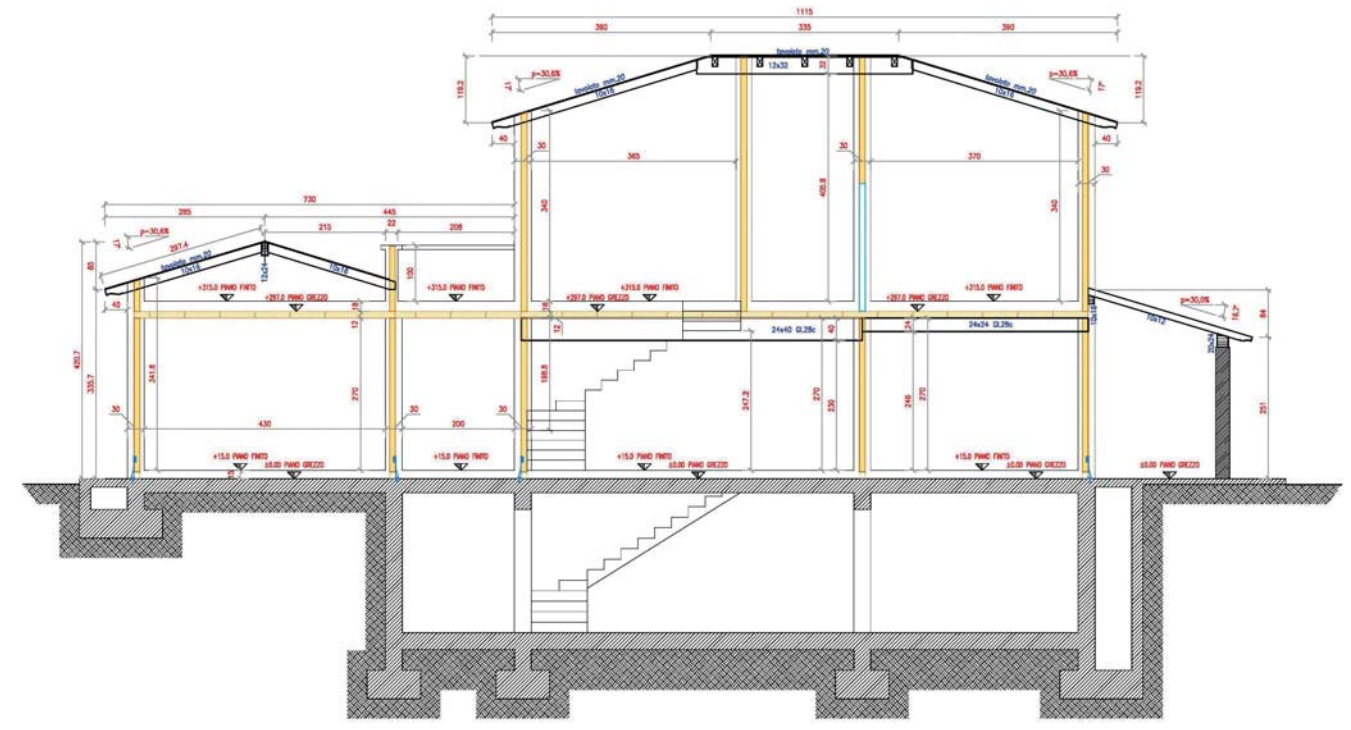
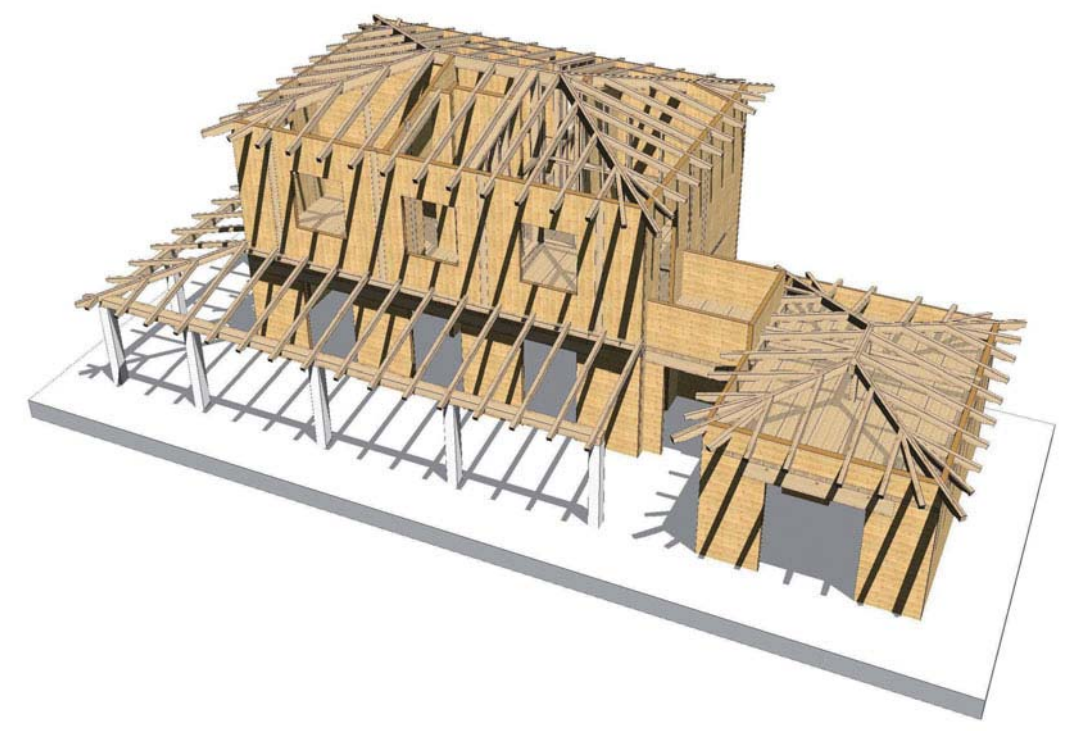
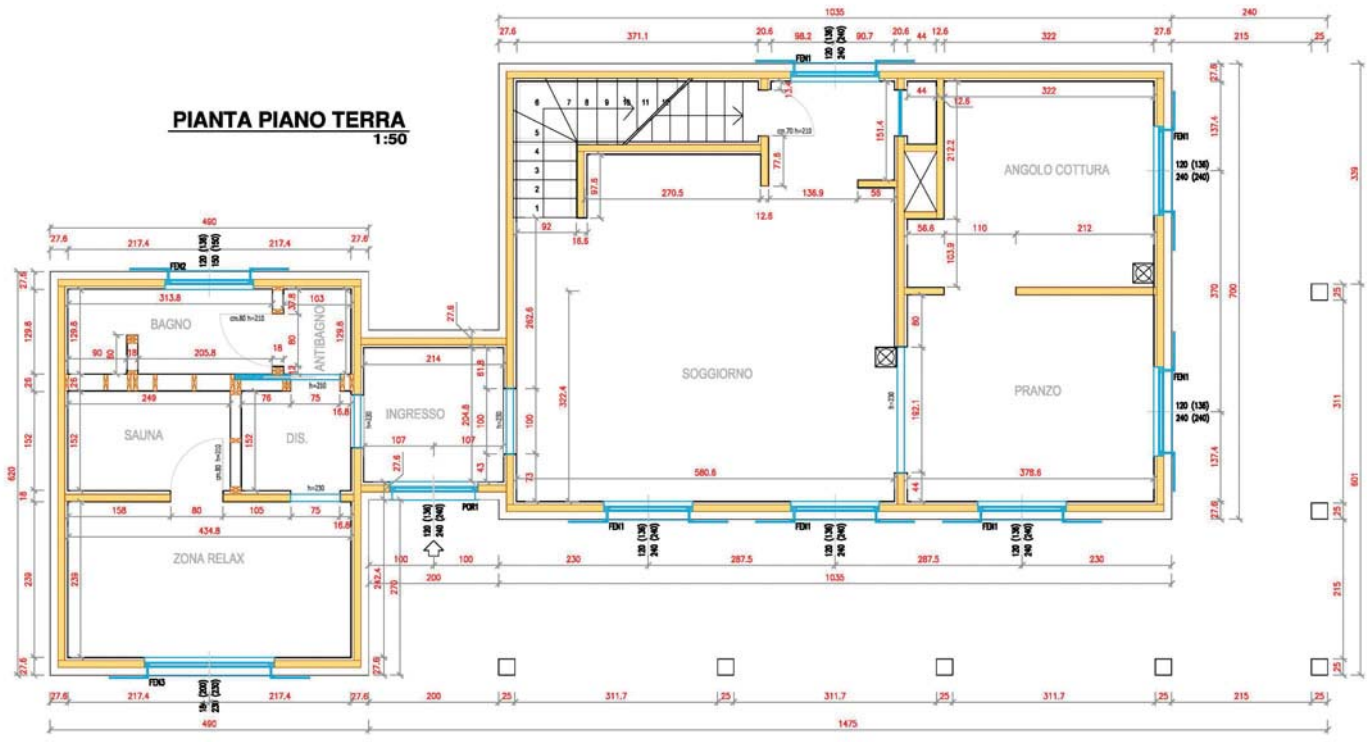


Filippo Magnini

The best Italian swimmer ever in the freestyle short distances, mainly the 100 meters, in which he was Italian Champion for years, three time European Champion and twice World Champion.

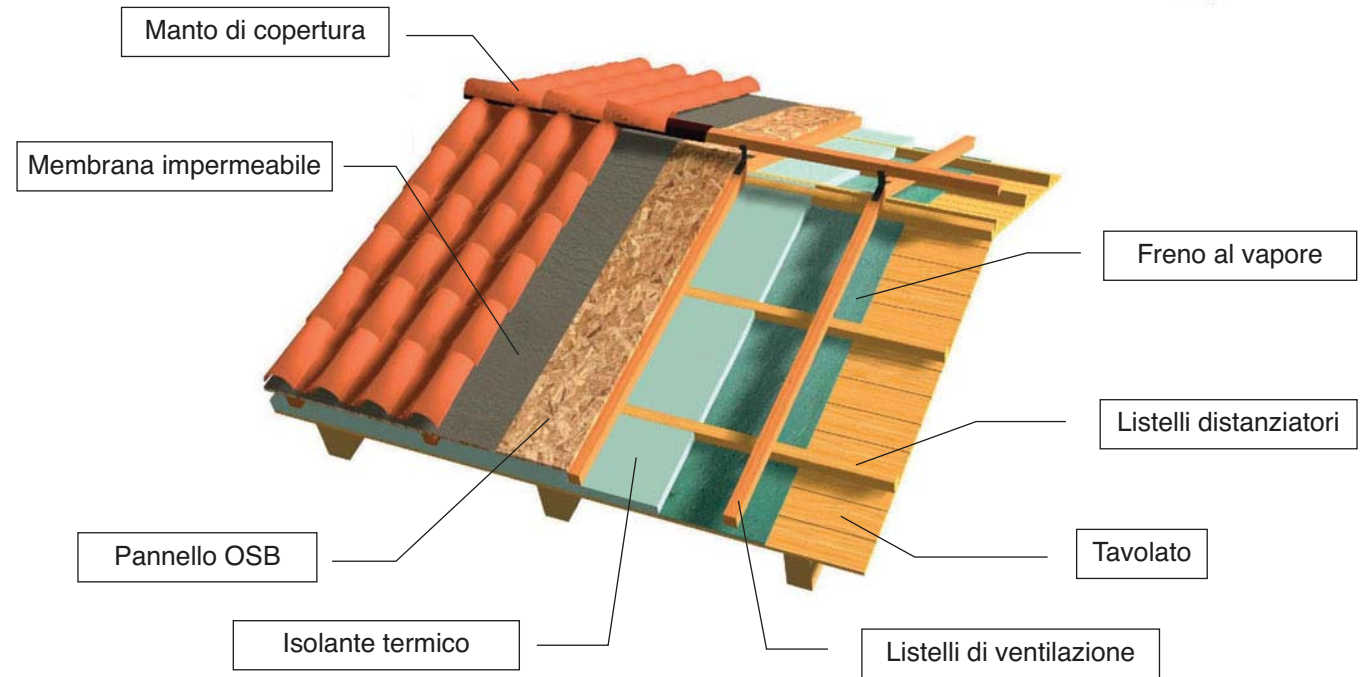
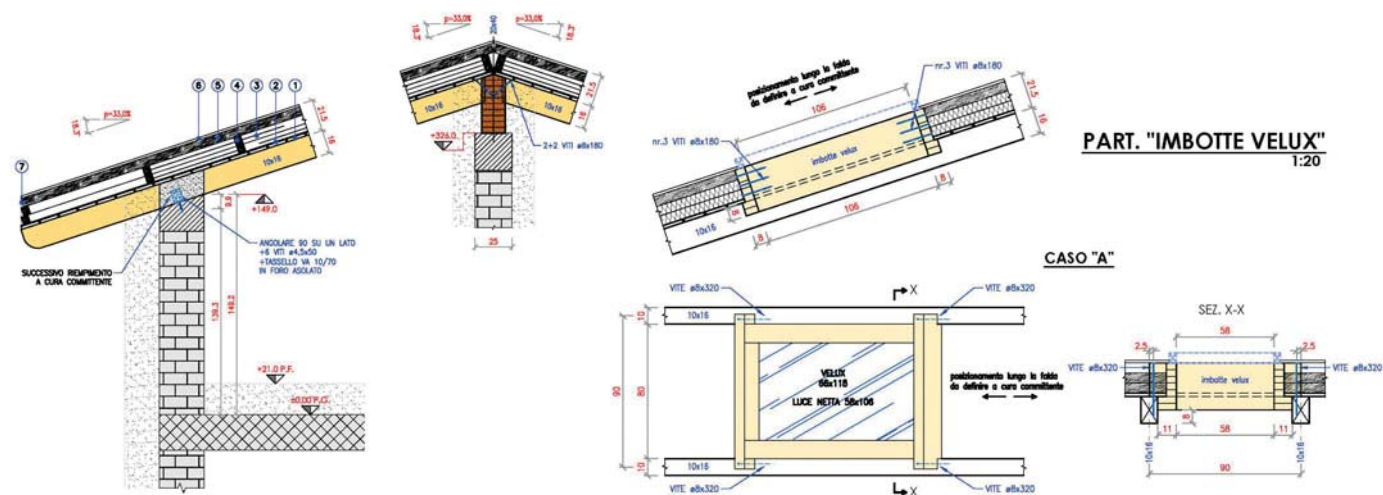
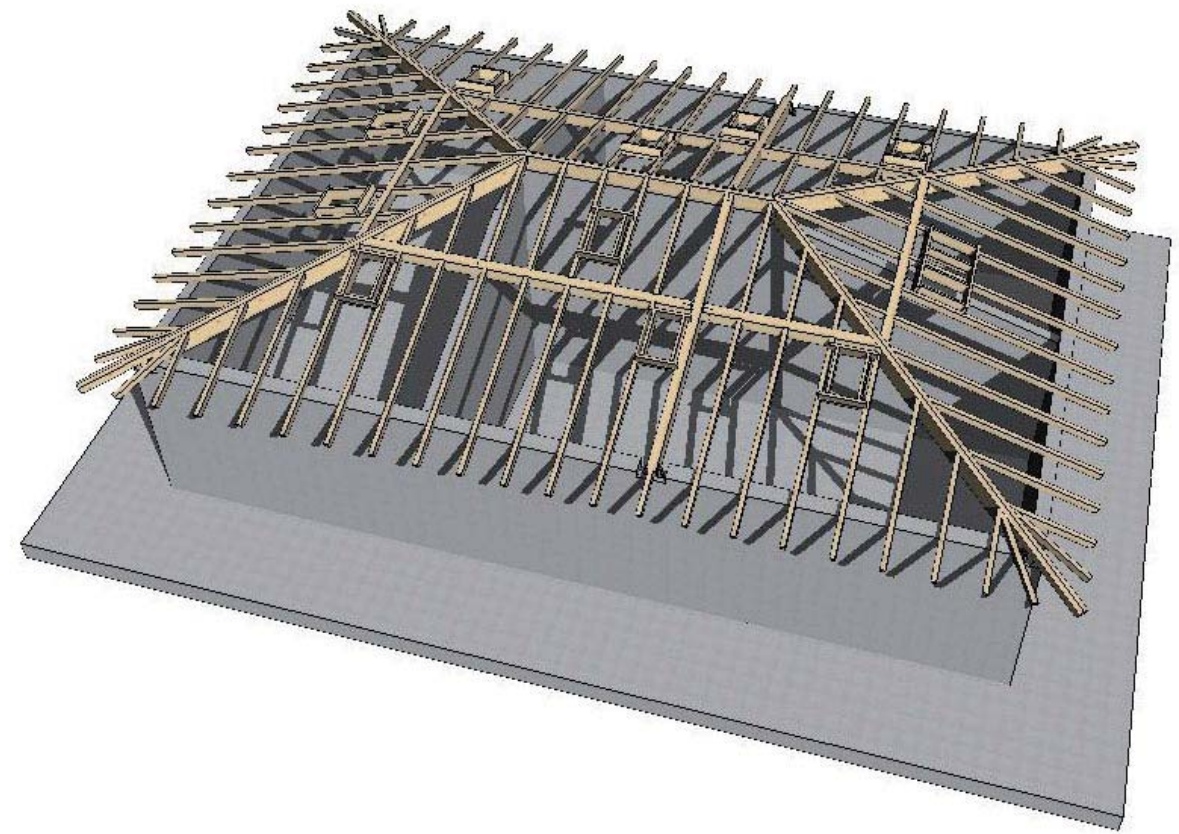
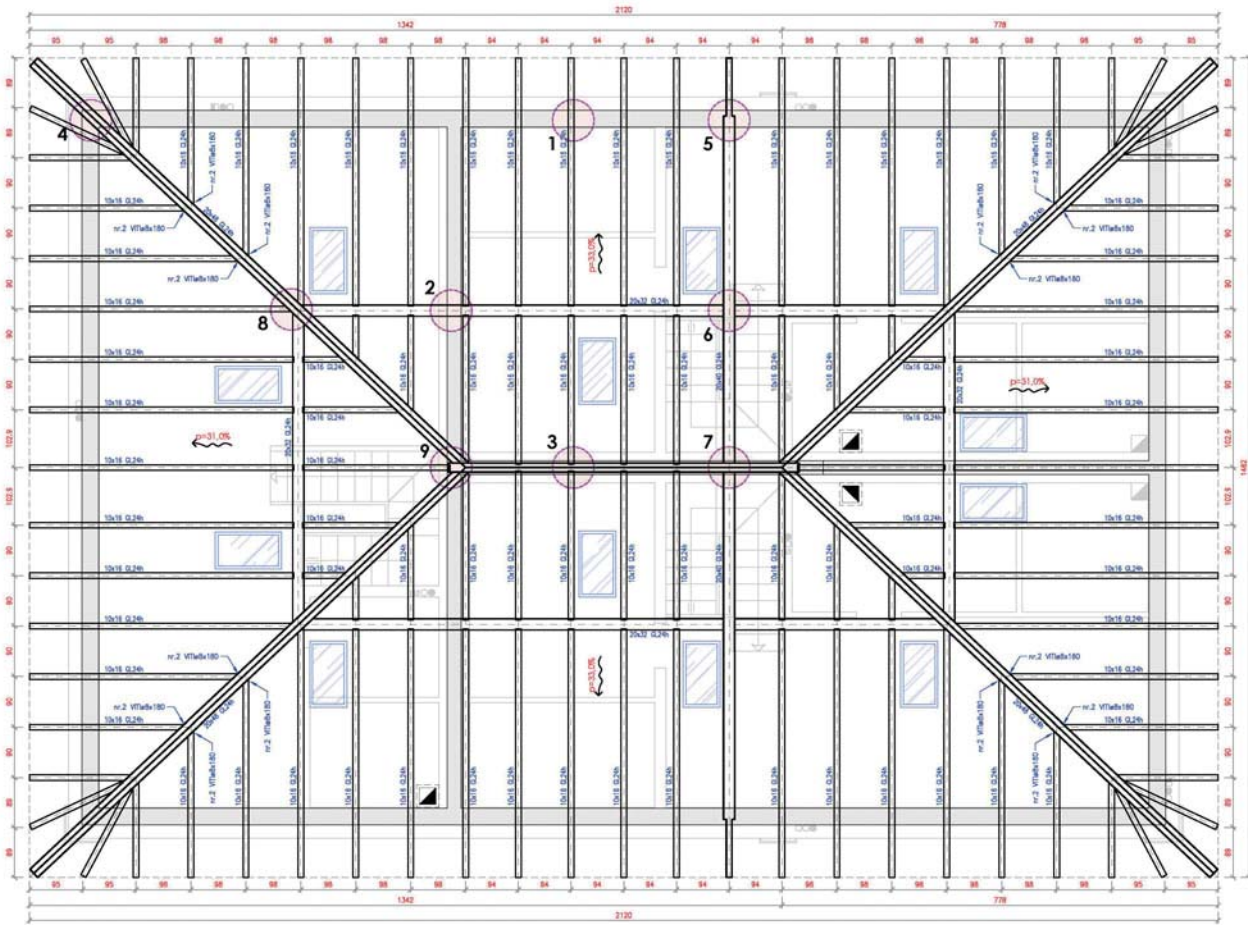
With his several wins Filippo Magnini gained the nickname of "RE MAGNO", and has chosen Canducci as his own partner, because in sport as well as in life, commitment and constant evolution always reward.

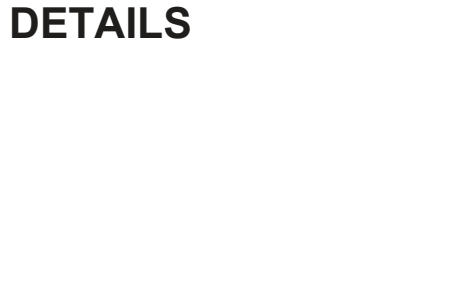




WOODEN HOUSE

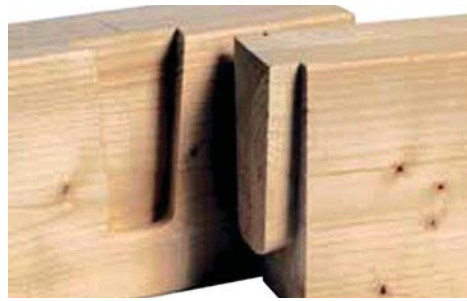






DETAILS

URBAN DECORATION



Germania - Wernberg



Russia - San Pietroburgo



Croazia - Varazdin



Kazakistan - Astana



Armenia - Dilijan



Armenia - Yerevan



Haiti - Port-Au-Prince



Qatar - Doha



Qatar - Doha



Emirati Arabi Uniti - Dubai



Iran - Teheran



Malta - La Valletta



Angola - Luanda



Spagna - Alicante



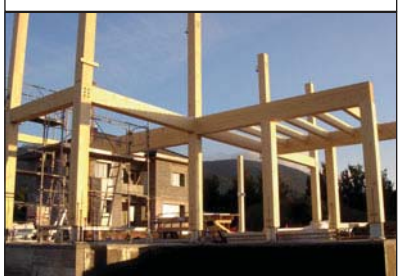
Repubblica di San Marino



Repubblica di San Marino



Francia - Gex



Uk - Stratford Upon Avon





Località
Tehran - IRAN

Tipologia
HOTEL

Sistema statico
TELAIO SPAZIALE

Superficie
340 m²

Legno lamellare
50 m³

Acciaio
1.000 Kg



Località
Yerevan - ARMENIA

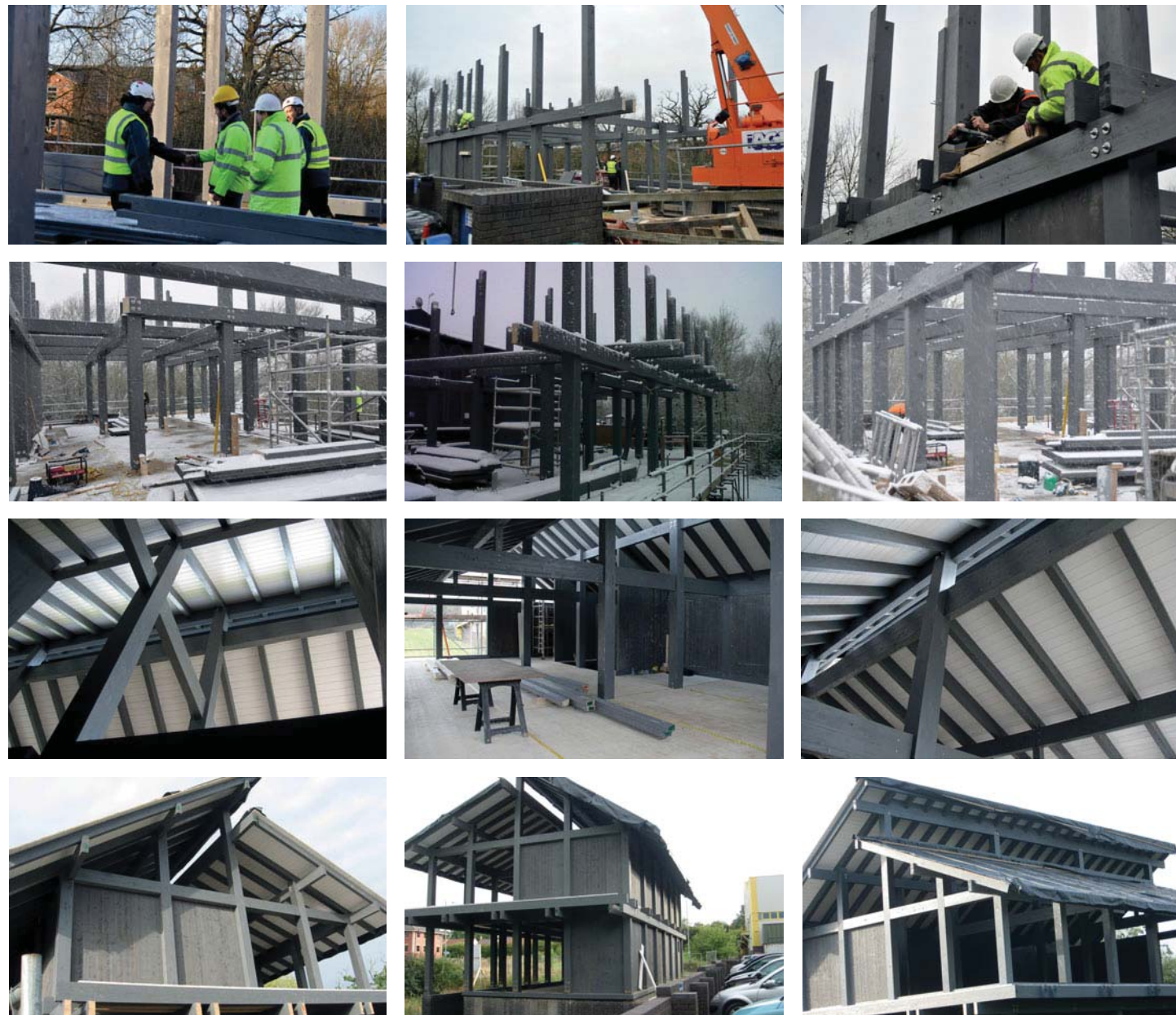
Tipologia
CASA DI LEGNO

Sistema statico
PARETI PORTANTI X-LAM

Superficie
160 m²

X-Lam + legno lamellare
100 m³

Pannelli multistrato
200 m²



Località
Stratford upon Avon - UK

Tipologia
UFFICI

Sistema statico
TELAI

Superficie
900 m²

Legno lamellare
90 m³

Acciaio
1.600 Kg



Località
Gex - FRANCIA

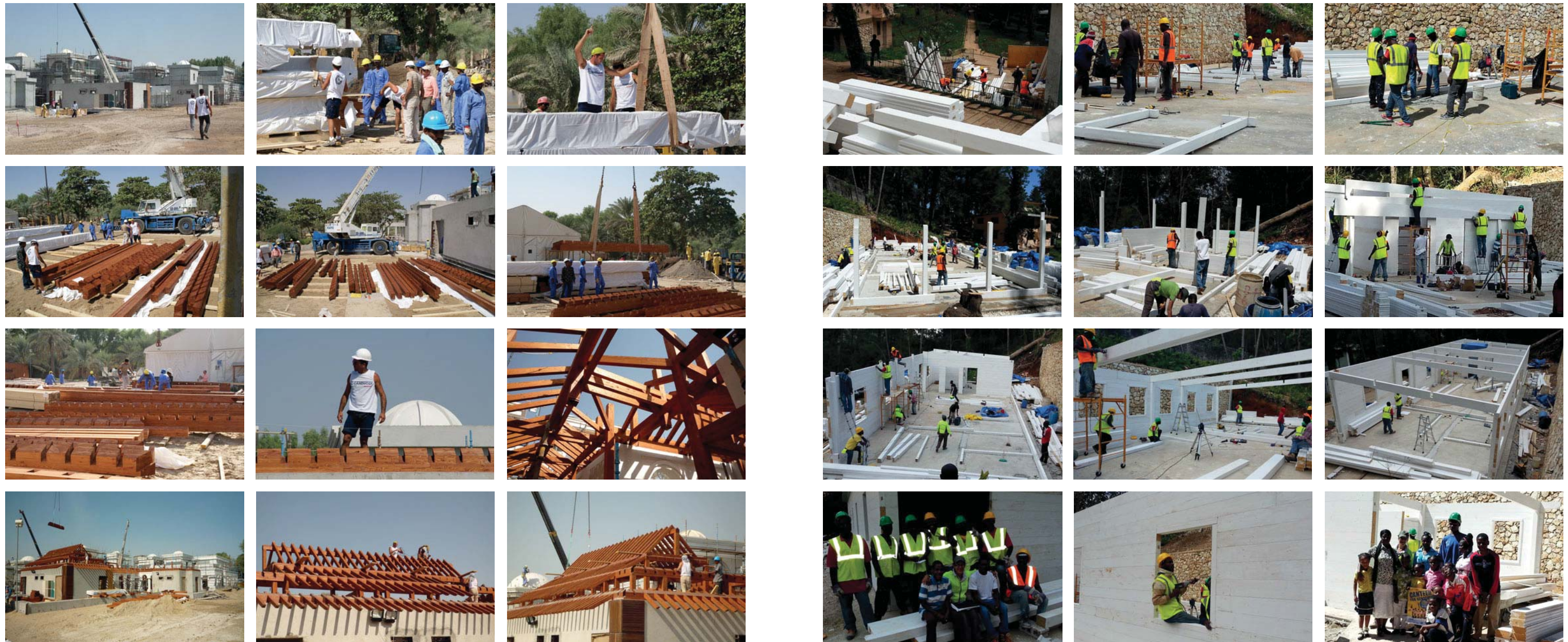
Tipologia
VILLA

Sistema statico
TELAIO

Superficie
700 m²

Legno lamellare
80 m³

Acciaio
2000 Kg



Località
Dubai - EMIRATI ARABI UNITI

Tipologia
VILLA

Sistema statico
CAPRIATE ISOSTATICHE

Superficie
1.900 m²

Legno lamellare
120 m³

Acciaio
1.000 Kg



Località
Port-Au-Prince - HAITI

Tipologia
REFETTORIO

Sistema statico
BLOCK BAU

Superficie
200 m²

Legno lamellare
120 m³

Acciaio
200 Kg



www.canducci1940.it

CANDUCCI[®]
since 1940

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