



# CONNEGO

System

WOODEN FRAME SYSTEM

[WWW.CONNEGO.IT](http://WWW.CONNEGO.IT)





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## 木质框架系统

CONNEGO是一种将两个或者两个以上木制部件固定在一起的勾连系统，能完美的运用于建筑承包业务。它是一个自定中心的系统，其元件以榫销和钢制锚定螺栓来固定，保证横向、纵向以及对角线方向始终牢固。所以，CONNEGO系统使整个结构拥有一个承受高压的，安全可靠的特性。于是就诞生出了一种既牢固，同时又有韧性的产品。

**迅速** - 组装过程极其迅速。可以节省大量的安装时间，为批量建造建筑物创造了可能性。

**简易** - CONNEGO的榫卯系统可以通过使用榫销将相对的元件组耦合斜面连接来实现，仅仅需要借助简易棘轮扳手或者电动螺丝刀就能完成。

**安全** - 坚固的钢制螺栓将这个框架紧紧的扣在一起，完完全全的消除了来自底部的垂直压力风险。相比传统结构，其抗震性能非常出色。CONNEGO系统通过了FEBBO实验室的水力负荷测试。该系统是在一个斜面平台上，地震期间这部分会相应移动，从而给整个结构带来了弹性和恢复力。

## WOODEN FRAME SYSTEM

Connego is an hooking system that blocks two or more wood components together, perfectly applied to the building contractors business. It is self-centring and the anchoring of the blocks is secured by pulling pivots and steel anchor bolts guaranteeing the fastening in an horizontal, vertical and diagonal way. Connego so allows the structure to have a safe and resistant anchoring against considerable stress. The result is a product that is firm, but flexible at the same time.

**FAST** - The assembling process is extremely fast and it reduces considerably the installation time, allowing to create buildings in series.

**SIMPLE** - The Connego anchoring system takes place trough a reclined paired surface and pulling pivots by using a simple ratchet wrench or electric screwdriver.

**SAFE** - Solid steel anchor bolts close the entire structure and the risk of stress by vertical thrust from the bottom is completely reduced. The earthquake proof behaviour guarantees outstanding performances compared to the traditional structures. The CONNEGO system was tested in FEBBO's laboratory under hydraulic load. The system works on an inclined plane and this part can move during earthquakes, providing the structure elasticity and resilience.





## 建造技术

CONNEGO系统在每个节点上都包含了一对固定在立柱上的支架，一对固定在横梁尾的支架，以确保每个模块压力通过连接传送到各维度。

这些支架都是由热镀锌钢S235制成。得益于它的几何构造，使得压力完全转移到结点。

由于复杂结构采用三维框架设计，这种生产技术将木质结构的优点和钢筋混凝土的韧性结合起来。为了让静态装置拥有三维的内涵，可以以非绝缘的方式实现两种，三种和四种结点。只需在基础元素上采用一个纵向的元素，就会将整个结点上的压力分散出去，而不是朝一个方向。

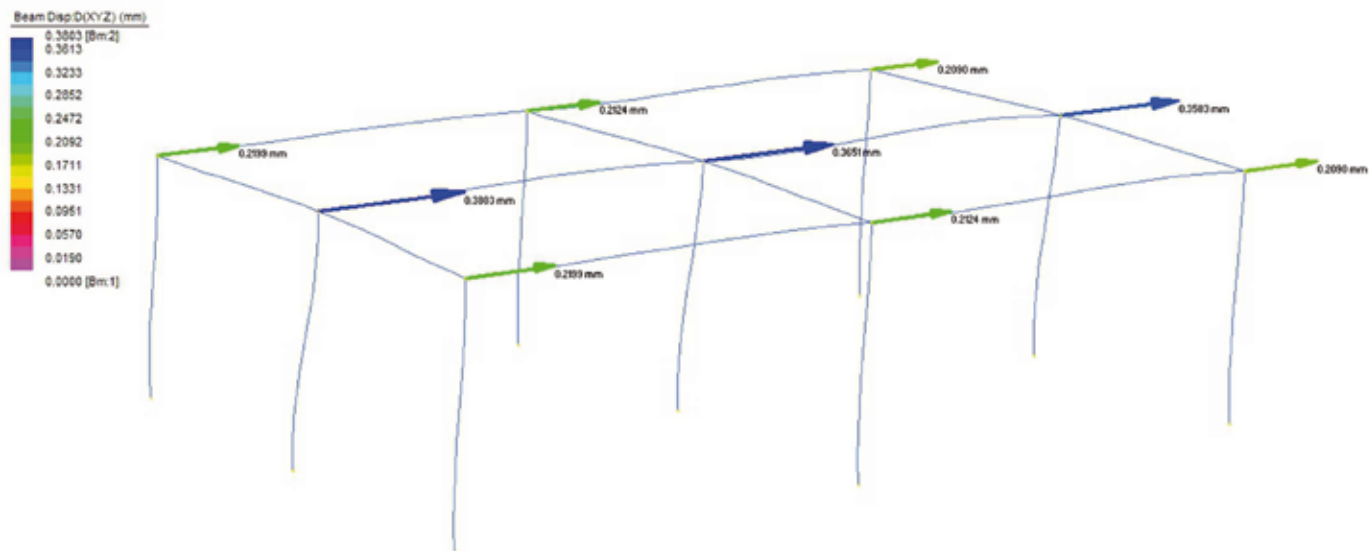
CONNEGO系统在2013年成为意大利专利，2014年成为欧洲PCT（欧洲专利），并于2015年成为国际专利。

## BUILDING TECHNOLOGY

The Connego System consists, for each node, of a pair of brackets fixed to the column and a pair fixed to the end of the beam that permit the transmission of the stresses through connections to dimensioned cut for each particular case. The brackets are made of hot galvanized steel S235 and, thanks to the geometric conformation, allow the creation of nodes at complete transfer of stresses.

This manufacturing technology allows to combine the benefits of wooden structures with the flexibility of the building in reinforced concrete, as the structural complex is designed with three-dimensional frames. In order that the static behavior can assume three-dimensional connotations, it is possible to realize nodes 2, 3 and 4 way in non-isolated manner, by applying only a vertical element on the base element, which allows a transfer of the stresses on the entire node and not locally only in one direction.

The CONNEGO system was patented in ITALY in 2013 with European PCT in 2014 and extended worldwide in 2015.

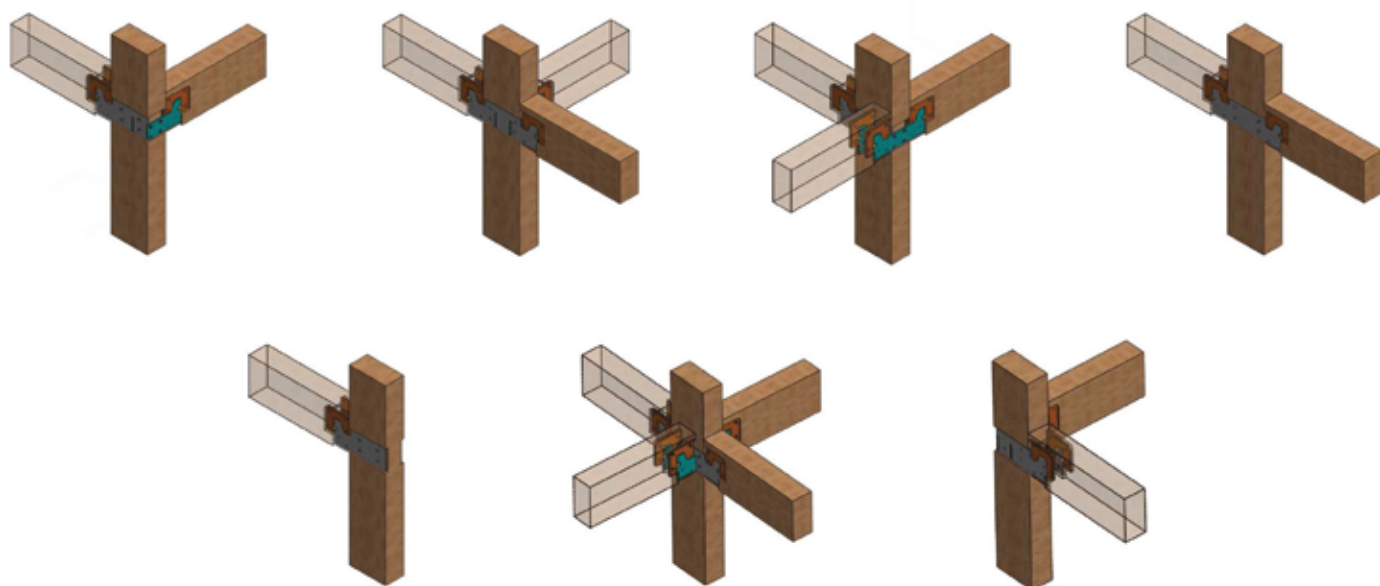


## 结构设计

单层或多层复合结构的构思是以固定结点为基，和可持续延伸的结点搭建的“三维框架”，具体而言，框架的支架和梁之间的接口可以维持木质元件之间的巩固，值得一提的是，梁的端面和支柱垂直面的连接，这种状态下，加上应力平衡 - 每一个方向都互相连接一对支架，可以在无交叉杆的帮助下实现大范围的网格状结构。地震作用方面：事实上结构可以吸收惯性质量 - 在地震中 - 大大地减少侧应力，以显著地减少施加到框架的程度。

## STRUCTURAL CONCEPT

The mono or multi-storey complex is designed as a three-dimensional frame, with fixed nodes at bases and nodes in full continuity at height. Specifically, the geometry between brackets-beams and brackets-pillars allows complete adhesion between the wooden elements, with particular reference to the contact between the end face of the beam and the vertical surface of the column; this condition, together with the balance of stress - any direction is interconnected with a pair of brackets - allows you to create large structurals mesh without the aid of windbracing, including against seismic actions: in fact, the structure takes on inertial masses - participants in the quake - much reduced, allowing significantly reduce the magnitude of the actions applied to the frames.







第一天 定位和铺设支柱增加相应支架。

**FIRST DAY**  
Tracking and installation of the pillars with brackets



第二天 安装横梁和完成支柱的铺设

**SECOND DAY**  
Installation of the first crowing timber-beams and pillars



第三天：铺设中层结构，安装封顶横梁完成。

**THIRD DAY**  
Installation of the crawl space structure and finalization of the crowing timber-beams



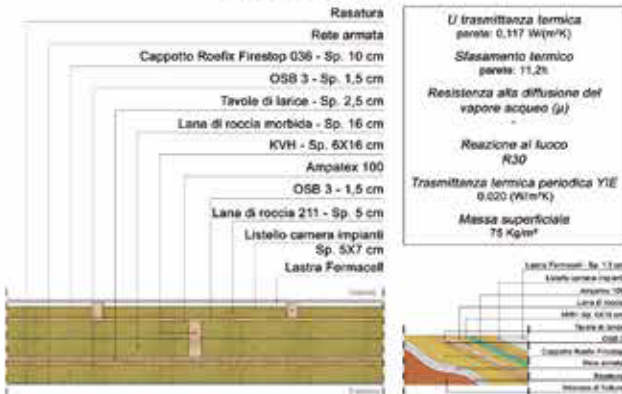
## 不透明套管

不透明的套管可以采用多种材料，从传统的、到最新的都可以。从多孔砖到蒸压加气混凝土，从木草到最新的流行的材料，例如麻酸石灰材料。

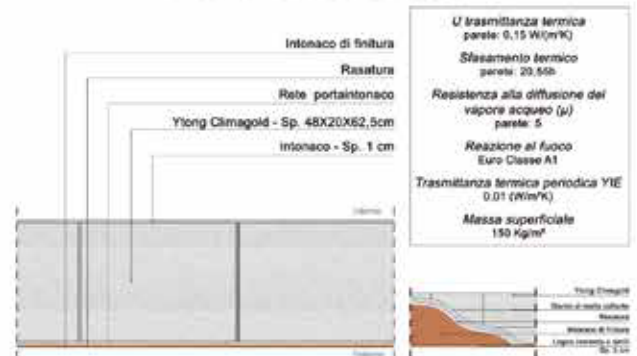
## OPAQUE CASING

The opaque casing can be built with several materials, both traditional and most updated and innovative: from the classic porous bricks to the Autoclaved Aerated Concrete blocks, from the wood straw to the latest trend such as hemp-lime materials.

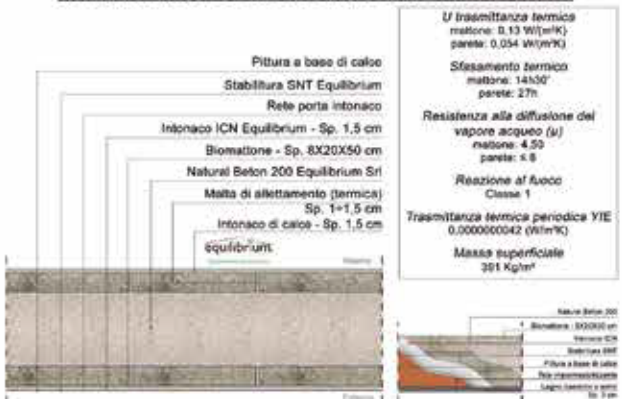
### PARETE IN LEGNO



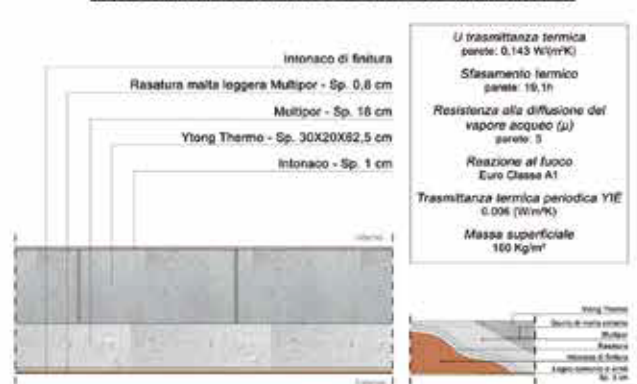
### PARETE IN YTONG CLIMAGOLD



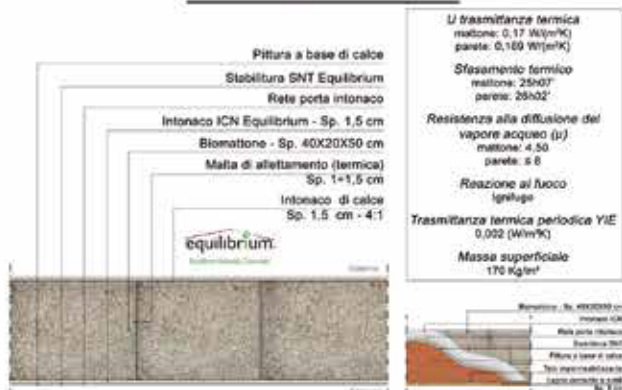
### BIOPARETE IN BLOCCHI DI BIOMATTONI E CALCE CANAPA



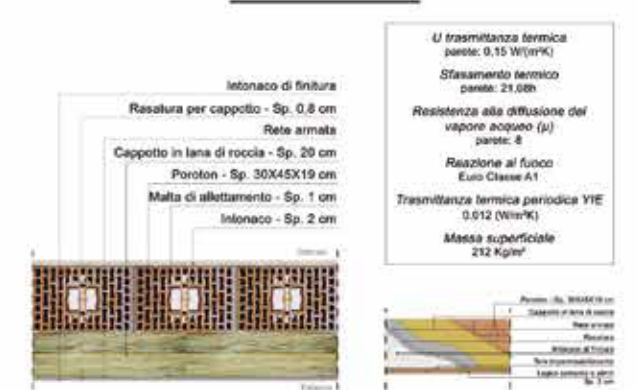
### PARETE IN YTONG THERMO E CAPPOTTO IN MULTIPOR



### BIOPARETE IN CALCE CANAPA



### PARETE IN POROTON







演示屋  
环境园  
都灵 Livorno路



# CONNEXO System

An eco-friendly LEGO-house based on a patented joining technology



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