



MULTI-STOREY APARTMENT BUILDING IN CAMPOSANTO (MODENA, ITALY)

ANTISISMICO Y ECO-SOSTENIBLE ANTI-SEISMIC AND ECO-SUSTAINABLE

An 1800 m² timber apartment block erected in seven months in the period following the earthquake. The apartment building in Camposanto (Modena, Italy), erected in just 7 months, was commissioned in order to provide accommodation as quickly as possible to families who had lost their homes in the May 2012 earthquake. **Prefabricated timber building for eco-sustainability and antiseismic safety**. The overall design of the building was guided by innovative **criteria of eco-sustainability**, in terms of both **energy sustainability and green architecture**, and also in terms of structural properties, in compliance with the new antiseismic regulations that have recently come into force. The construction technology is that of **prefabricated timber buildings with Xlam multi-layer panels**, which entrusts loading functions and **seismic resistance of the system to continuous vertical members**. Located in the perimeter walls and in the stairwells, the vertical members provide an open plan layout for the dwellings, with a high level of flexibility thanks also to the use of plasterboard for the interior partition walls. **Energy independence for the apartments in the timber residential block**. Each dwelling features **energy efficiency class "A"** and is heated by **radiant panels** operating as fan coils also for **summer cooling requirements**. The building is equipped with a **photovoltaic system and solar thermal panels that provide 50% of the necessary domestic hot water**.

PRODUCT SPECIFICATION

Multi-storey Apartment Building

Localization: Camposanto (Modena)

Intended use: Condominiums, Multi-Storey Buildings and Social Housing

Architetur and structural design: Architect Marco Toni

Total area: 1800ft

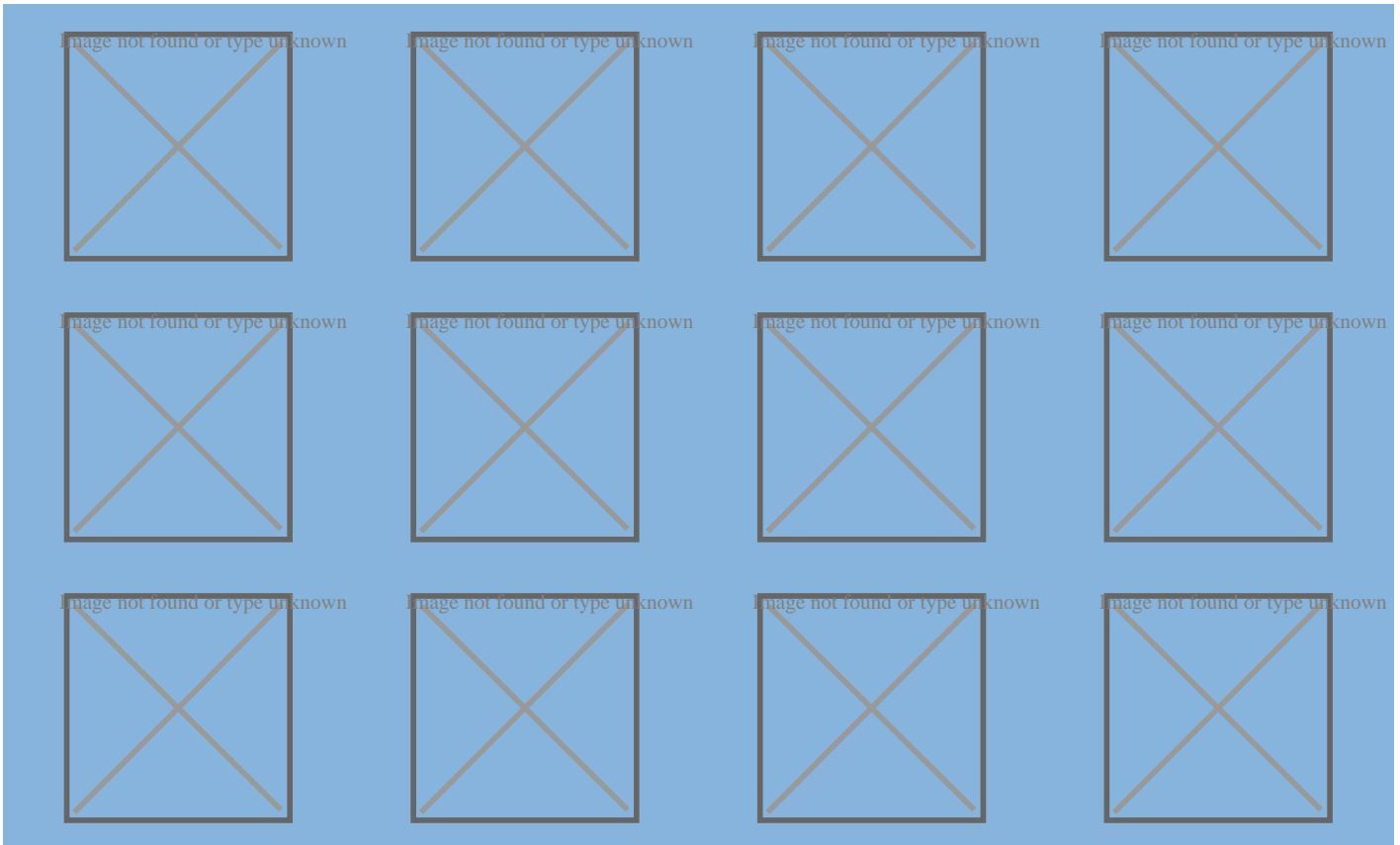


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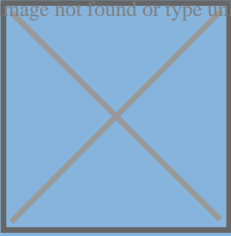


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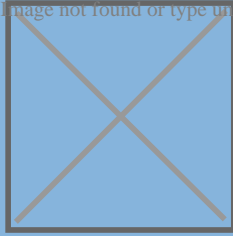


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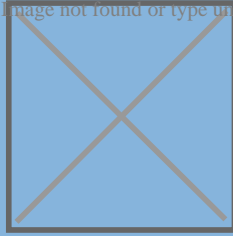


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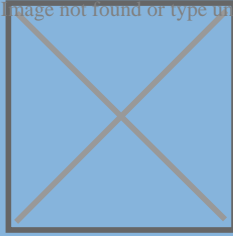


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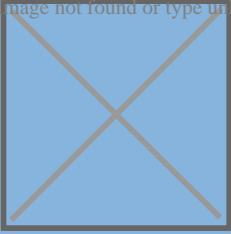
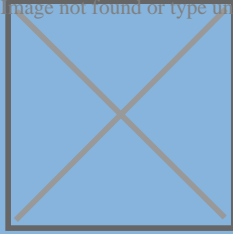
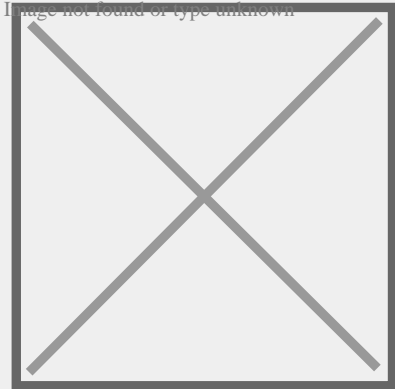


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BUILDING SYSTEM

XLAM

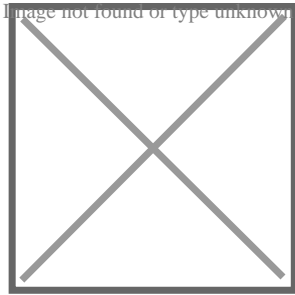


Reasons for choosing the Xlam system

The Xlam system is a technical innovation in the construction of timber homes and buildings. The system's exceptional versatility allows the creation of a wide range of architectural constructions, including multi-storey **timber buildings**. The system assures **optimal thermal insulation** and a high level of **fire resistance**, a fast drying process and exceptional **acoustic insulation**.

About the Xlam system

The Xlam panel is composed of crossed layers bonded together, making the construction system extremely **versatile**. Composed of 99.4% timber and 0.6% adhesives, Xlam is considered to be a monolithic material **capable of supporting very high loads and withstanding external stresses and seismic activity**.



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