

PRIVATE HOUSE - CASTELNOVO NE 'MONTI
A STEEL AND PLATFORM FRAME BUILDING

In Castelnuovo nè Monti, in the Reggio Apennines, a new private house was built with a steel supporting structure and external envelope made with Platform Frame wooden walls. This solution allows to have excellent anti-seismic properties and great architectural flexibility in the use of wood, thanks to a time-saving and cost-effective intervention.

PRODUCT SPECIFICATION

Duplex
Localization: Castelnuovo ne' Monti
Intended use: Detached or Duplex homes Residential buildings
Architetural and structural design:
Total area: ft

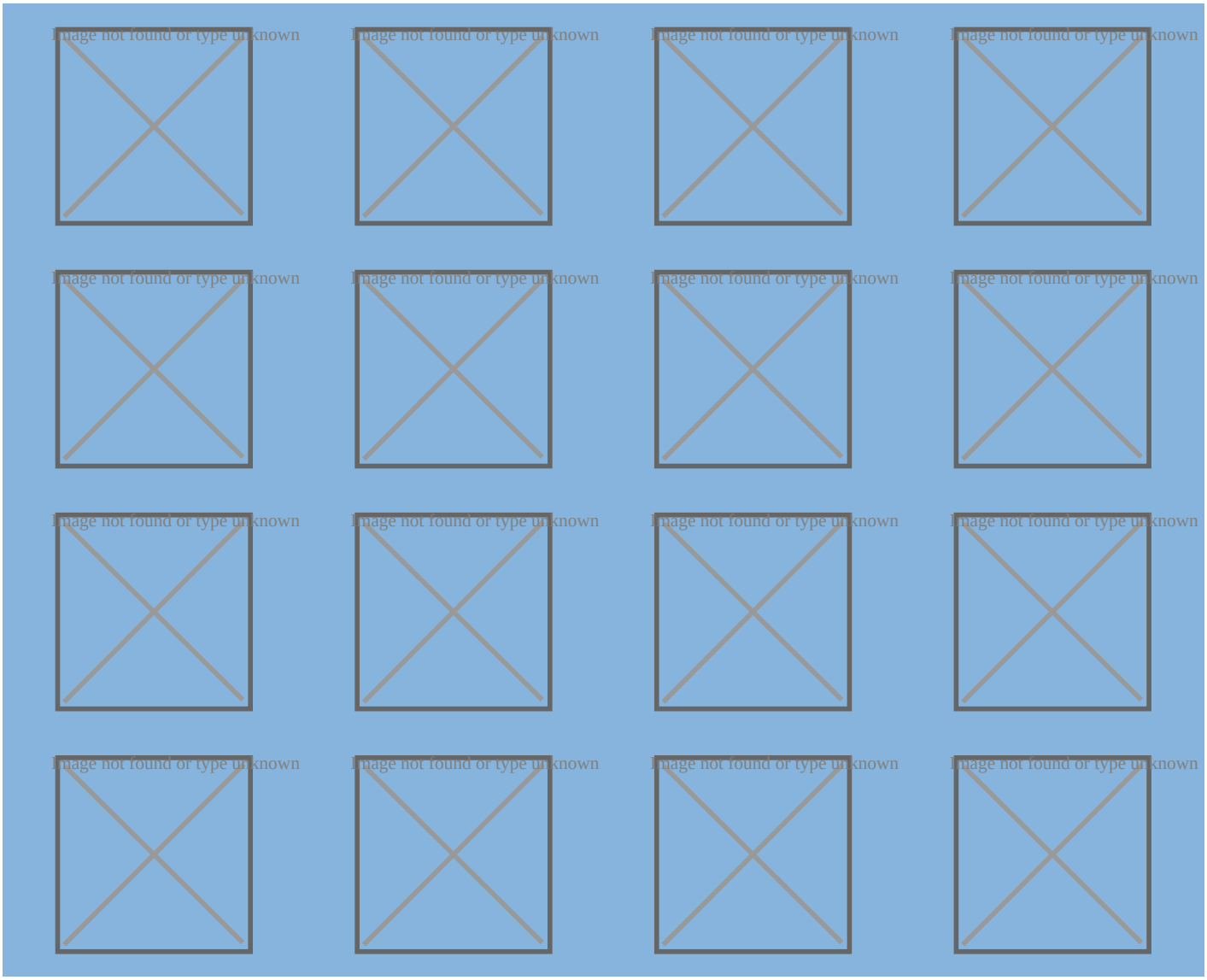
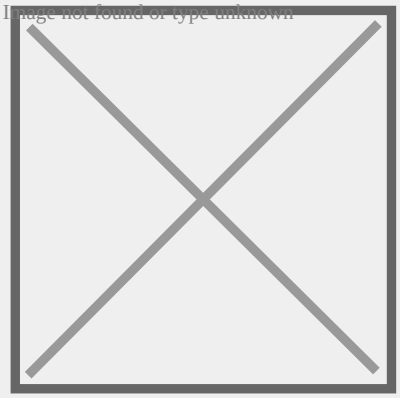


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BUILDING SYSTEM

Platform-Frame



Reasons for choosing the Platform-Frame system

The Platform-Frame system is ideal for building prefabricated multi-storey homes and other types of timber buildings. This system can be used to create single residential units and condominium buildings of up to four floors in elevation. That explains why this construction technique is especially suitable for **timber buildings for social housing needs:** structures for emergency accommodation needs and shared community spaces. The system also offers excellent **insulation and antiseismic properties:** it offers the highest structural coefficient of all timber construction types. It's also an **economical** and easy **to erect system**.

About the Platform-Frame system

In the Platform-Frame construction system each floor of a building functions as a platform to support the floors above. Although developed in Northern Europe, the Platform-Frame system is widely used in North America. **Each wall or floor is composed of evenly spaced laminated wood or** KVH structural timber studs. The building frame is covered on the exterior side by OSB structural cladding, fixed by means of ring-shank nails and metal angle brackets. The Platform-Frame system is generally built on a reinforced concrete plinth. The connection between timber building and foundations is assured by threaded steel bars or expansion anchors.

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