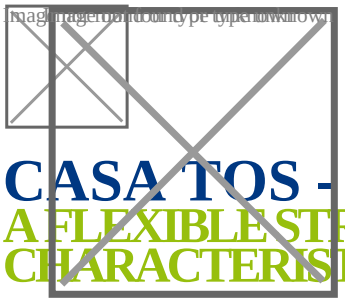


CASA TOS - MIRANDOLA (MODENA)

A FLEXIBLE STRUCTURE WITH REMARKABLE ANTI-SEISMIC CHARACTERISTICS

Thanks to the flexibility of the frame system we have built a new two-level building in Mirandola (MO) consisting of four residential units with independent entrances. This choice allowed at the same time to obtain an important saving of materials in the construction and to obtain a structure with remarkable anti-seismic characteristics.

PRODUCT SPECIFICATION

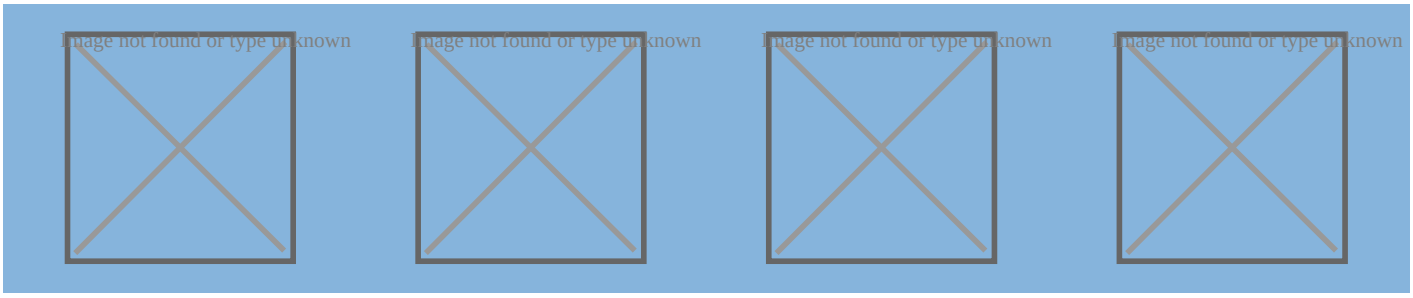
Timber apartment block Timber residential complex

Localization: Mirandola (MO)

Intended use: Detached or Duplex homes

Architetural and structural design:

Total area: ft



BUILDING SYSTEM

Post & beam

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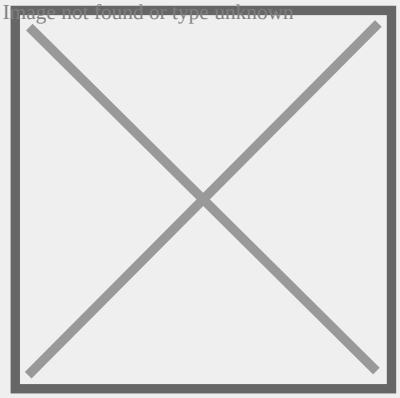

The frame of the timber house – a solid, eco-sustainable and versatile load-bearing structure

The post & beam construction system uses **laminated wood columns** (vertical members) **and beams** (horizontal members) **to** create the building's load-bearing structure. These loading elements are arranged in such a way as to guarantee **total flexibility for the design of the facades and internal partition walls**. The strengths of this construction technology, which is perfect for multi-storey buildings, lie in the **freedom for distribution of the interior walls and the facility to reposition them also at a later date**, the **architectural flexibility in the design of the facades,** and the **low incidence of cubic metres of timber per square metre of building space**.

A timber building with high seismic resistance

The functions of stiffening and bracing to withstand seismic loads are performed by diagonal braces made of timber or steel, or alternatively by column-beam nodes designed as interlocking or semi-interlocking joints.

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