

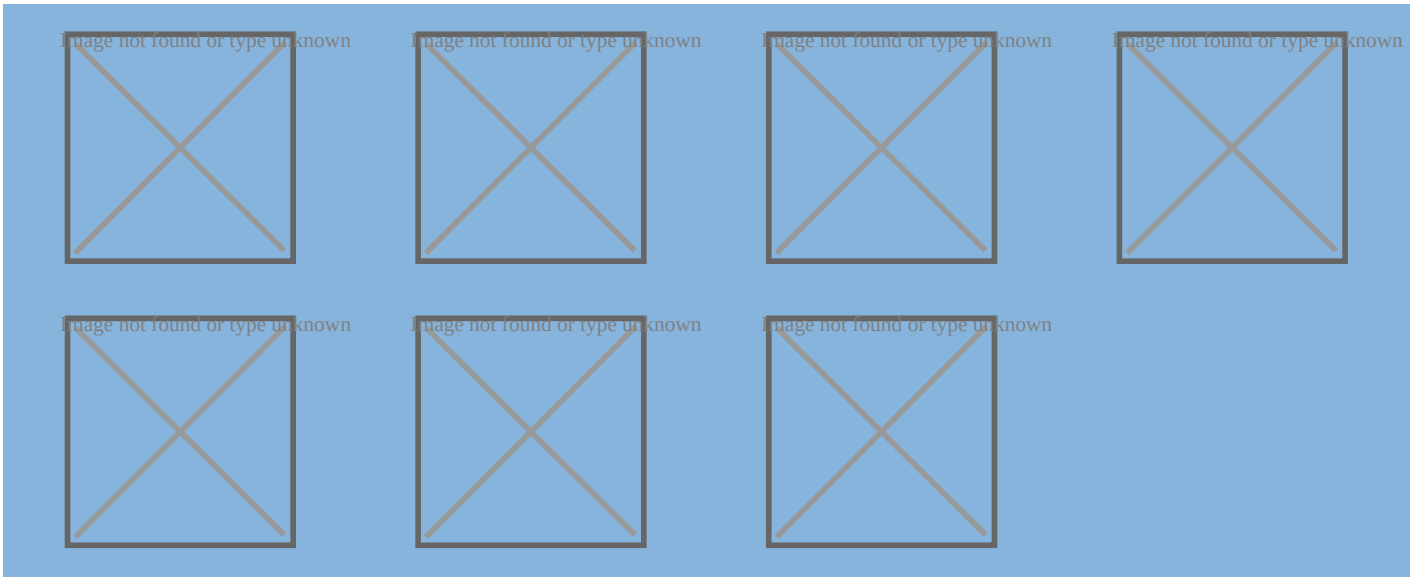
MICRO-RESIDENCE "LE AZALEE" - MIRANDOLA (MODENA)

REBUILDING WITH WOOD AIMING AT SOCIAL AND TECHNOLOGICAL INNOVATION

It is a highly innovative project, which goes beyond the traditional protected housing. The building provides structural solutions that can also be used in the long term and sustainable from the point of view of environmental impact, made entirely of wood with the desire to recreate a domestic atmosphere in an environment with advanced construction technology. The "Le Azalee" micro-residence is made up of six mini apartments and can accommodate up to 12 people and is characterized by a sequence of spaces which, in the combination of the different apartments, generate real specialized bands: individual spaces (bedrooms, small individual loggias), range of shared services (kitchenette, assisted toilets, technical rooms), range of convivial spaces (kitchen and dining room, living room for collective activities, common loggias).

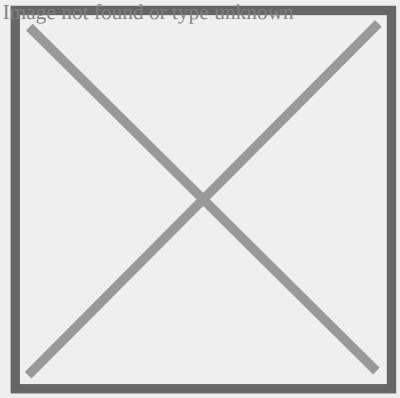
PRODUCT SPECIFICATION

Micro homes for senior citizens
Localization: Mirandola (Modena)
Intended use: Micro homes for senior citizens
Architetural and structural design: Arch. Mauro Frate
Total area: 400ft



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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