MICRO-RESIDENCE "LE ROSE" - MEDOLLA (MODENA)

SMALL HOUSING UNITS, GREAT ENERGY ADVANTAGES

The "Le Rose" micro-residence, located in the province of Modena, has a state-of-the-art structure equipped with 6 mini residential accommodations in which the elderly and disabled people can carry out activities in an assisted and protected context. Entirely made of wood, the structure relies on the Platform Frame construction system to recreate small eco-sustainable and anti-seismic housing units, equipped with all active and passive systems for saving and producing energy.

PRODUCT SPECIFICATION

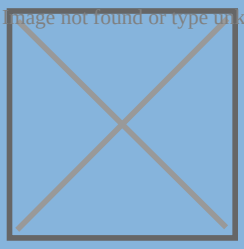
Micro homes for senior citizens

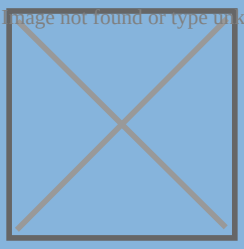
Localization: Medolla (Modena)

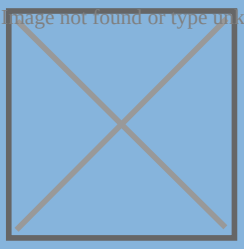
Intended use: Micro homes for senior citizens

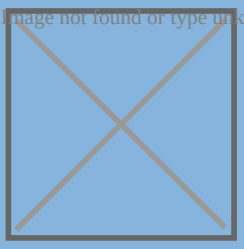
Architetural and structural design: Arch. Mauro Frate

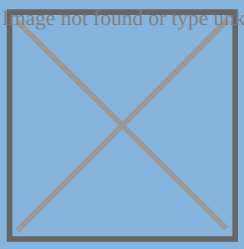
Total area: 400ft

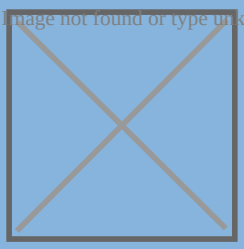






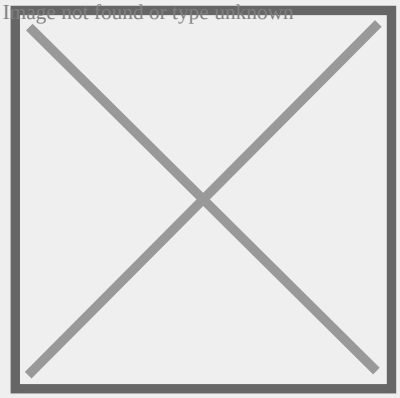






BUILDING SYSTEM

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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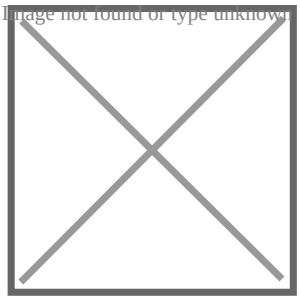

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