

76 Social housing Zurbano

Carrer de Zurbano 115, 08201

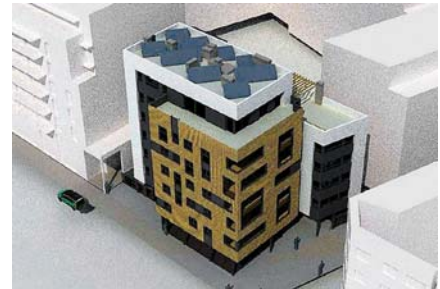
SPAIN Sabadell

2022

Under construction

About

This subsidized rental housing building is the first of its kind in Sabadell to use wood for its construction. It has six floors plus the ground floor and is built entirely with CLT panels.



Aerial view.



Infographics from Zurbano street. Main façade. EIFFAGE <https://n9.cl/opdxm>



Agents involved

Architect Ayuntamiento de Sabadell

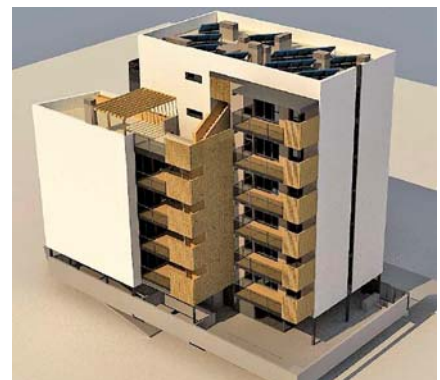
Developer Vimusa

Construction company CONSCYTEC S.L.U

Structural engineer Miguel Nevado

Timber installer Madergia

Timber manufacturer Stora Enso



Back façade infographics. Aerial view. EIFFAGE <https://n9.cl/opdxm>



General

22 Height (m)

7 Floors above ground

2.966 Built-up area (m²)

206 Ground floor area (m²)

2.991.499 Budget (€)

1.009 €/m²

Building use **Residential**



Corner of Zurbano street and Barcelona road infographics. EIFFAGE <https://n9.cl/opdxm>



Technical data

Mass Timber Structural system Bracing system **CLT walls**

Timber products used

- CLT panels on walls and slabs

0 Concrete floors

6 CLT floors

0 Concrete-timber floors



CLT panels on both Sabadell street and Barcelona road façades.

Radio Sabadell <https://n9.cl/vgeu5>



Construction timing

Months to complete the building

Weeks to build the structure



Wind actions

Terrain category IV

Area in which at least 15% of the surface is covered with buildings and their average height exceeds 15 m.

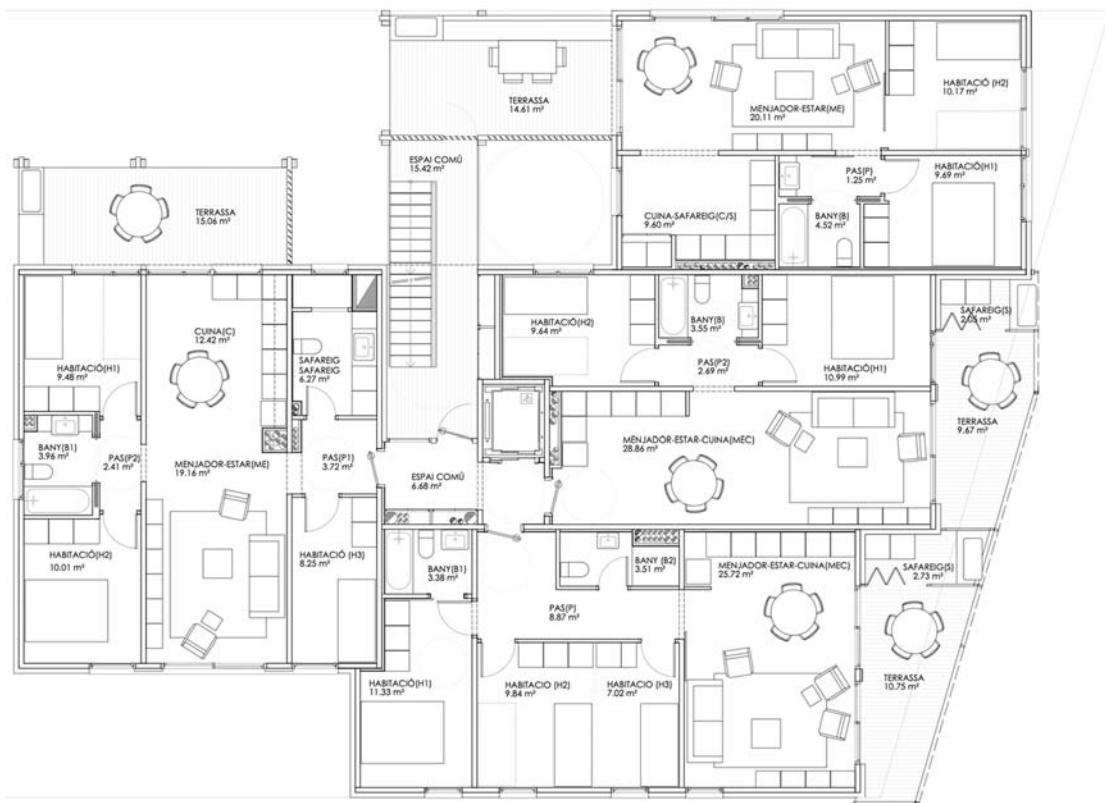
Slenderness

1,1



Steel posts and beams on the basement floor holding CLT panels.

DiarideSabadell <https://n9.cl/46tqo>



General floor plan

Sustainability

Picea abies Wooden specie

675 Wood volume (m3)

1650 Distance of transportation (km)

59% Percentage of structure made of wood

215 Potential CO2 benefit (t)

Special transportation needed



Construction process. Structural phase.
DiarideSabadell <https://n9.cl/46tqo>

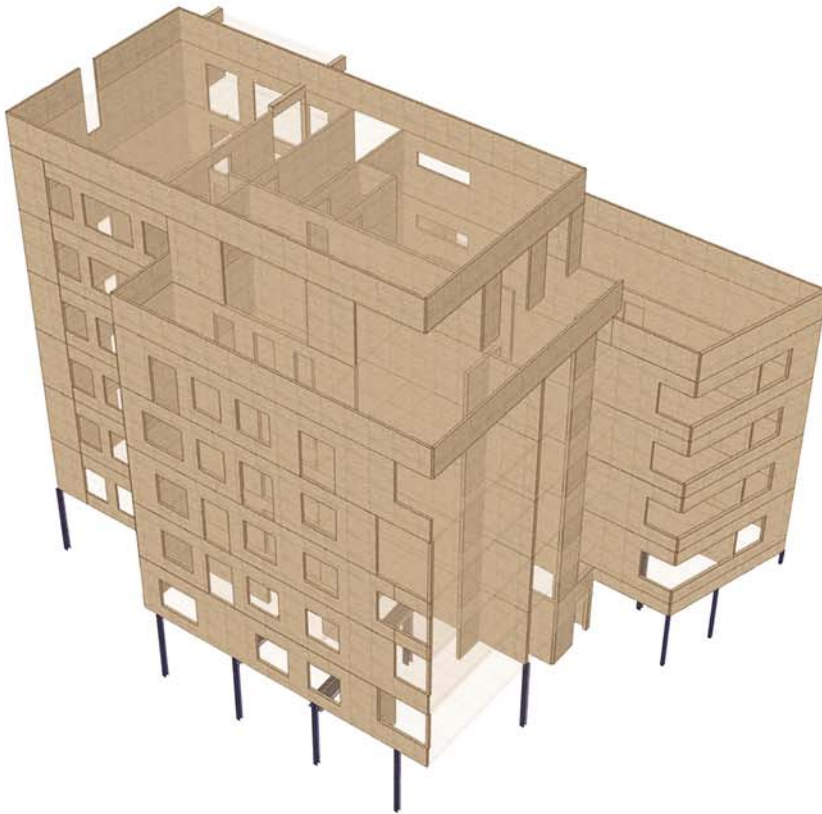


South elevation



North elevation

0 1 2 5m



Construction process. CLT panels seen from de interior of a dwelling.
DiarideSabadell <https://n9.cl/46tqo>



Construction process. CLT panels seen from a balcony.
DiarideSabadell <https://n9.cl/46tqo>



Constructive volume



References:

- Miguel Nevado. Online survey on 29.05.21.

- DiarideSabadell <https://n9.cl/46tqo> [11.11.21].