

28 Cirerers residence in Roquetes

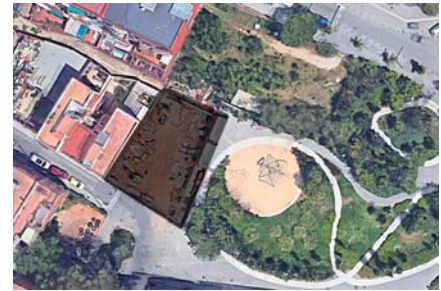
Carrer del Pla dels Cirerers 2-4, 08042

SPAIN **Barcelona**

2021
Finished

About

The building is located in the Roquetes neighborhood in Barcelona. It has 32 flats distributed over 8 floors. It is built on a plot of land owned by the city council and given to the Sostre Cívic cooperative for self-management. A unique feature of the building is that each floor has common areas that house laundry rooms, storage, bicycle parking, a study area, and a space for leisure activities.



Aerial view.



Building seen from Dones de Nou Barris square. Celobert cooperativa <https://n9.cl/9ko3r>



Agents involved

Architect	Celobert cooperativa		
Developer	Sostre Cívic SCCL		
Construction company	La Constructiva company		
Structural engineer	Celobert Cooperativa y ESTUDI M103		
Timber installer	Velima System	Timber manufacturer	KLH



General

27	Height (m)	8	Floors above ground
2.746	Built-up area (m ²)	406	Ground floor area (m ²)
3.313.000	Budget (€)	1.206	€/m ²

Building use **Residential**



Port de la Selva and Pla del Cirerers street corner. Celobert cooperativa <https://n9.cl/9ko3r>



Pla del Cirerers street façade. Celobert cooperativa <https://n9.cl/9ko3r>



Technical data

Mixed Structural system Bracing system **Concrete walls**

Timber products used

- CLT panels on slabs and walls
- GLT beams

- 1** Concrete floors
- 7** CLT floors
- 0** Concrete-timber floors



CLT external walls and balcony overhangs
Guifré de Peray | Celobert cooperativa
<https://n9.cl/9ko3r>



Construction timing

19 Months to complete the building

8 Weeks to build the structure



Prefabricated CLT walls with window and door openings
Guifré de Peray | Celobert cooperativa



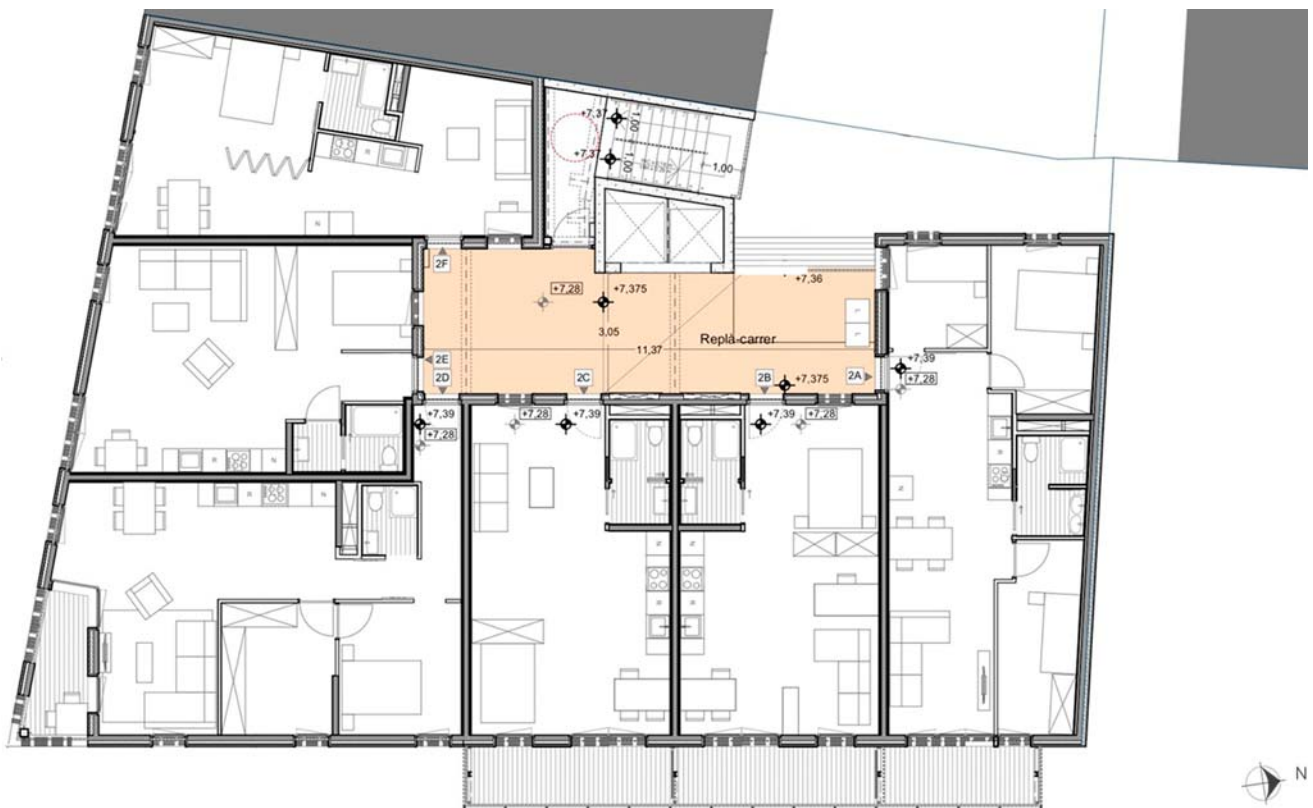
Wind actions

Terrain category IV

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

Slenderness

2,1



General floor plan

Sustainability

Picea abies Wooden specie

730 Wood volume (m3)

263 Potential CO2 benefit (t)

650 Distance of transportation (km)

Special transportation needed

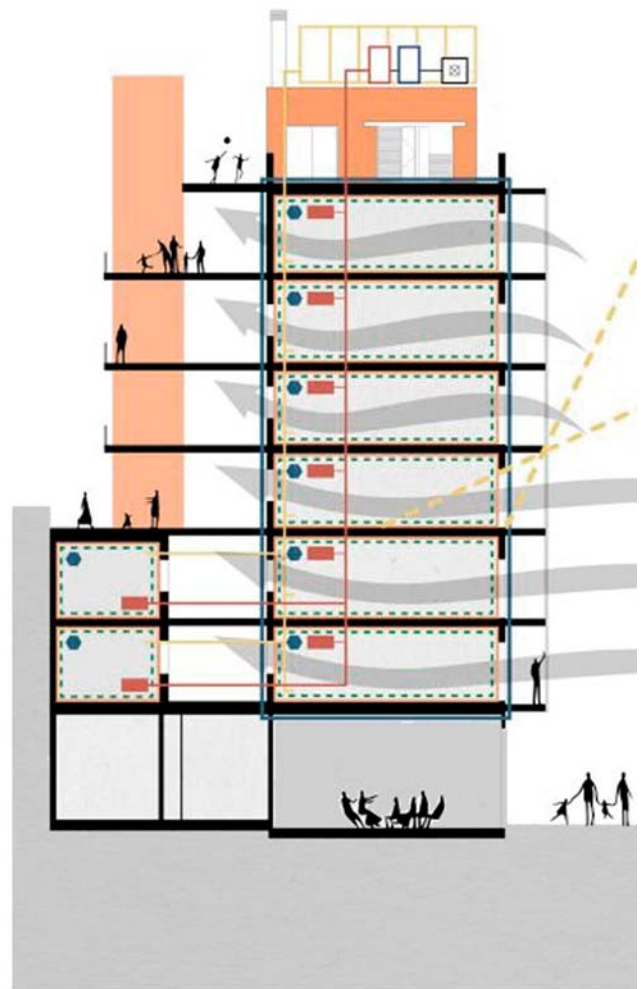
81% Percentage of structure made of wood



Construction process. Structure phase.
Guifré de Peray | Celobert cooperativa
<https://n9.cl/9ko3r>



Main elevation



Cross section

0 1 2 5m



CLT interior walls
Celobert cooperativa <https://n9.cl/9ko3r>



Terrace of the penthouses. CLT panel parapets, slabs and walls.
CLT external walls and balcony overhangs



References:

- Celobert. <https://n9.cl/usi5v> [19.03.21]
Online survey on 14.04.21 and online interview on 19.11.21.
- Sostre Cívic. <https://n9.cl/o6u59>
[19.03.21] Online interview on 17.11.21.
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[19.03.21].