

88 Le plateau des Possibles residence

Allée Antoine de Saint Exupéry 33130

2022

FRANCE Bègles

Under construction

About

It is a residential block conceived as a small village in which each dwelling forms a house in the shape of a duplex or triplex. With this configuration, the building reaches up to five storeys in some places. The construction of the building's structure is made entirely of wood, using a post and beam system and light framework on the façades. The enclosure is insulated by using straw boxes which, due to their stiffness, also serve as bracing in one of the directions. The floor slabs are made of concrete on lost timber formwork.



Aerial view.



Infographics of the building in its surroundings
Dauphins Architecture



Agents involved

Architect	Dauphins Architecture		
Developer	Domofrance		
Construction company	Unknown		
Structural engineer	Bureau d'études IBC and LAMECOL		
Timber installer	LAMECOL	Timber manufacturer	LAMECOL



Infographic of the front façade
Dauphins Architecture



General

15 Height (m)	5 Floors above ground
1.550 Built-up area (m ²)	671 Ground floor area (m ²)
2.750.000 Budget (€)	1.774 €/m ²

Building use **Residential**



Main façade under construction.



Technical data

Post and Beam

Structural system

Bracing system

Timber cross

Timber products used

- GLT posts and beams
- Light-framed roof
- Light-framed with straw insulation on the façade

0 Concrete floors

0 CLT floors

4 Concrete-timber floors



Construction timing

14 Months to complete the building

16 Weeks to build the structure



Wind actions

Terrain category III

Area with regular cover of vegetation or buildings or with isolated obstacles with separations of maximum 20 obstacles heights (such as villages, suburban terrain, permanent forest)

Slenderness

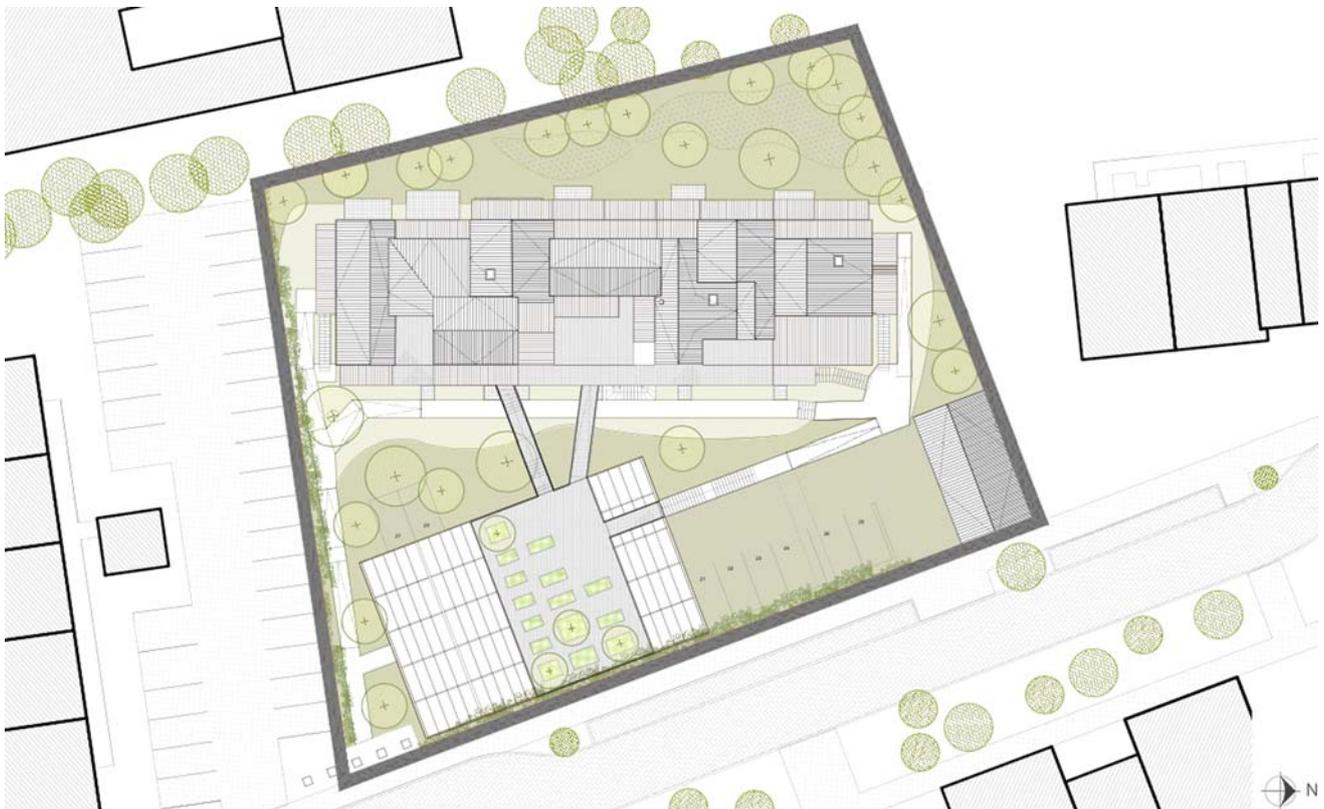
1,3



Basement floor construction process. Timber posts, beams and bracings.



First floor structure phase. Timber posts and beams.



Roof floor plan

0 10 m

 Sustainability

Picea abies Wooden specie

280 Wood volume (m3)

100 Potential CO2 benefit (t)

30 Distance of transportation (km)

Special transportation needed

57% Percentage of structure made of wood



Construction process. Aerial view.

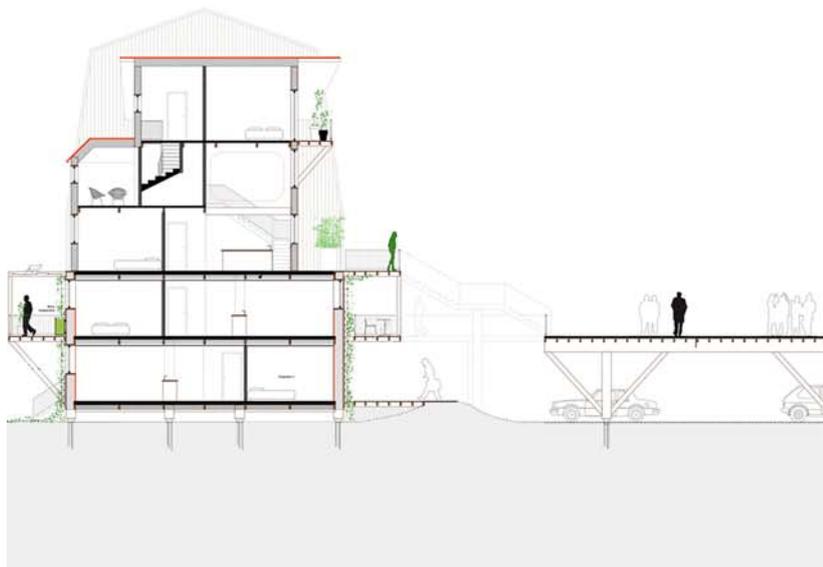


General floor plan





Aerial view of the building



Cross section

0 1 2 5m



One-way slab with timber beams and joists.



Post and beam joint.



References:

- Dauphins architecture. <https://n9.cl/6q2xl> [15.09.21]. Alizée Cugney. Interview on 20.09.21. Online survey on 23.09.21.
- Visit to the building on 20.09.21.
- Interview to Lamecol on 20.09.21.