

87 Crous Josephine Baker student residence

8 Rue Lucie Aubrac, 33600

FRANCE Pessac

2019

Finished

About

This student residence consists of four buildings of three and four floors. These buildings house 400 student flats of around 15 square metres each. In order to speed up the construction of the building, prefabrication was chosen, which is why timber was selected to frame the structure.



Aerial view.



Side façade of the residence.



Agents involved

Architect Flint Architectes

Developer CROUS de Bordeaux

Construction company Seg-Fayat

Structural engineer Egis

Timber installer Ossabois

Timber manufacturer Ossabois



Façade towards the main part of the campus.



General

14* Height (m)

4 Floors above ground

8.950 Built-up area (m²)

Ground floor area (m²)

16.639.941 Budget (€)

1.859 €/m²

Building use **Public Residence**



Student residence made up of different buildings.



Technical data

Combination Structural system Bracing system **CLT walls**

Timber products used

- Prefabricated CLT boxes

0 Concrete floors

4 CLT floors

4 Concrete-timber floors



Assembly of prefabricated CLT boxes. Ossabois



Construction timing

13 Months to complete the building

10 Weeks to build the structure



Wind actions

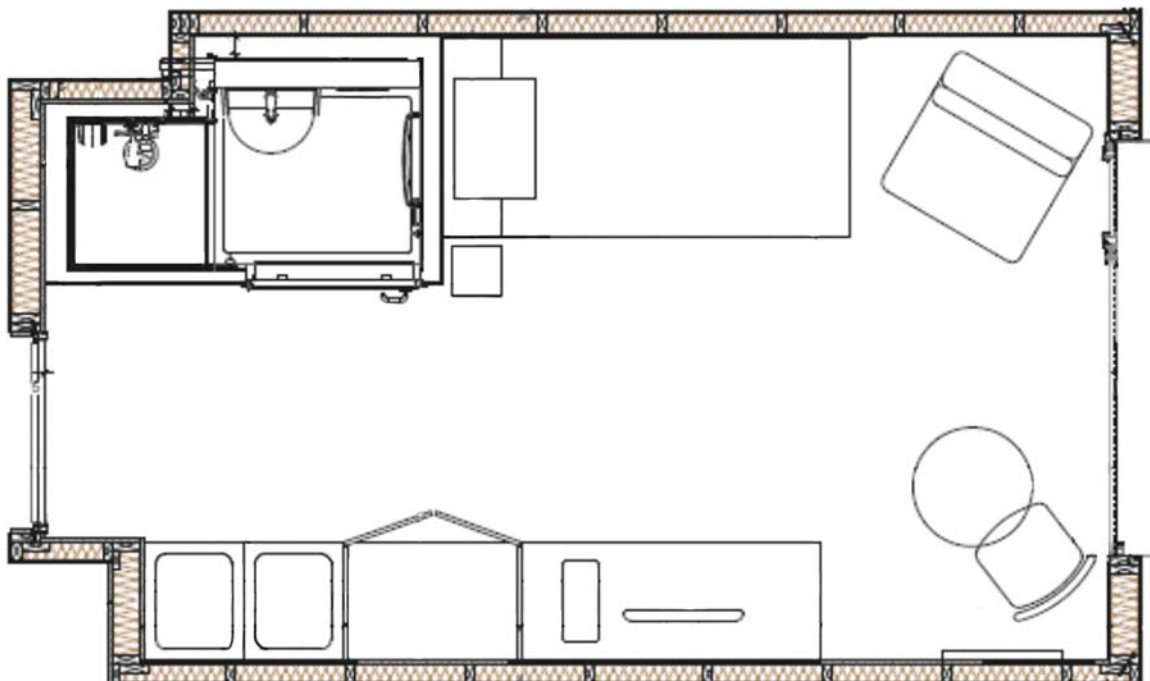
Terrain category III

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



Bike parking. First floor concrete slab.



Prefabricated box of a bedroom

Sustainability

Unknown Wooden specie

Wood volume (m3)

Distance of transportation (km)

75% Percentage of structure made of wood

Potential CO2 benefit (t)

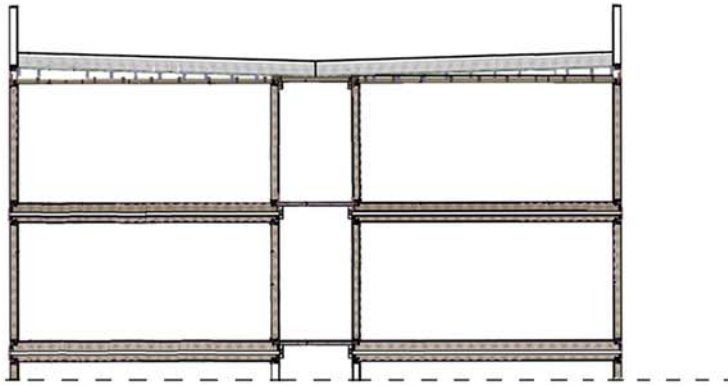
Special transportation needed



CLT boxes with exterior isolation. Ossabois



Infographycs from the public space



Cross section



Last building of the residence. Aerial view.



Facade made of metal sheet.



References:

- Visit to the building on 20.09.21.
- Ossabois <https://n9.cl/gt28o> [24.11.21].
- Seg-Fayat <https://n9.cl/3a88t> [24.11.21].
- La Tribune Bordeaux <https://n9.cl/gmwsp> [24.11.21].

Prefabricated boxes
Pictures of the manufacturing and assembly process