

20 Wood'Art - La Canopée

Av. de Grande Bretagne, la Cartoucherie, 31300 **FRANCE** **Toulouse** **2022**
 Under construction

About

"Cartoucherie Wood'art" is intended to be an eco-district located on the right bank of the Garonne, occupying a former industrial area. The project contains 3100 m2 of apartments and 6000 m2 of commercial space. The project is composed of several buildings, the tallest, with 10 floors, will house a hotel.

Seventy-five percent of the buildings are constructed in wood using mainly a mass timber system with CLT panels. Concrete only appears in the communication cores and the first floor ceiling. Besides, it uses steel for bracing. The rest of the structure is made of wood.

Aerial view.



Group of buildings: residential buildings in the background and the hotel tower.



Agents involved

Architect	Dietrich Untertifaller Arch	Seuil architecture
Developer	Unknown	
Construction company	Maitre Cube	
Structural engineer	Terrel Group	
Timber installer	Unknown	Timber manufacturer Unknown



Residential buildings.



General

36 Height (m)	10 Floors above ground
13.000 Built-up area (m2)	1.921 Ground floor area (m2)
22.000.000 Budget (€)	1.692 €/m2

Building use **Mixed**



Construction of the facade of the dwellings using prefabricated panels.



Technical data

Mixed Structural system Bracing system **Mixed**

Timber products used

- CLT panels on slabs and walls
- GLT posts
- GLT beams

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



Mixed timber-steel structure and cross bracing system. ICADE



Construction timing

Months to complete the building

10 Weeks to build the structure



#Eliminado



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 **1,5**



General floor plan

0 2 5 10 m

Sustainability

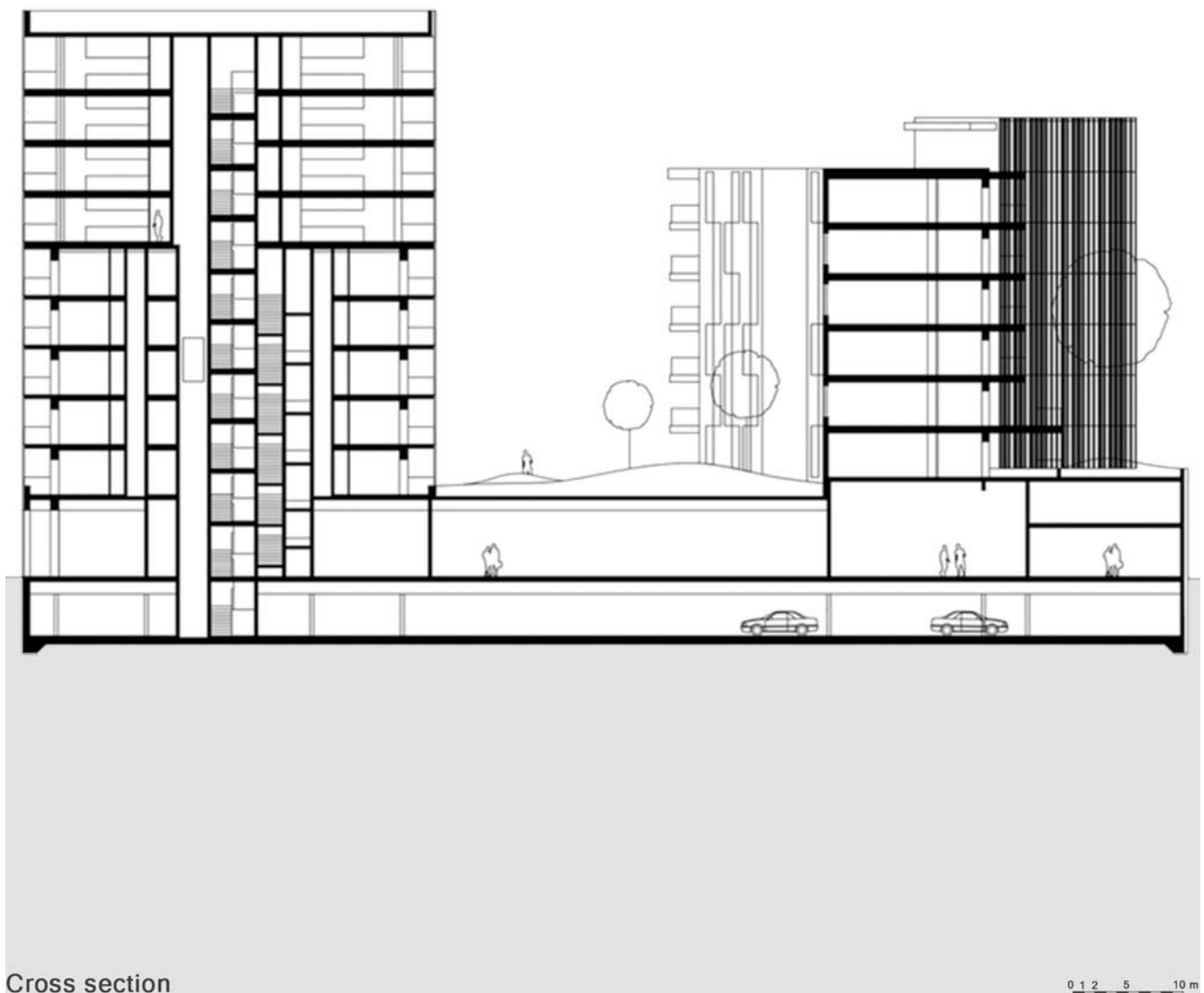
Pseudotsuga menziesii Wooden specie
Wood volume (m3)
Distance of transportation (km)
76% Percentage of structure made of wood

Potential CO2 benefit (t)

Special transportation needed



Mixed timber-steel structure .
ICADE



Cross section

0 1 2 5 10 m



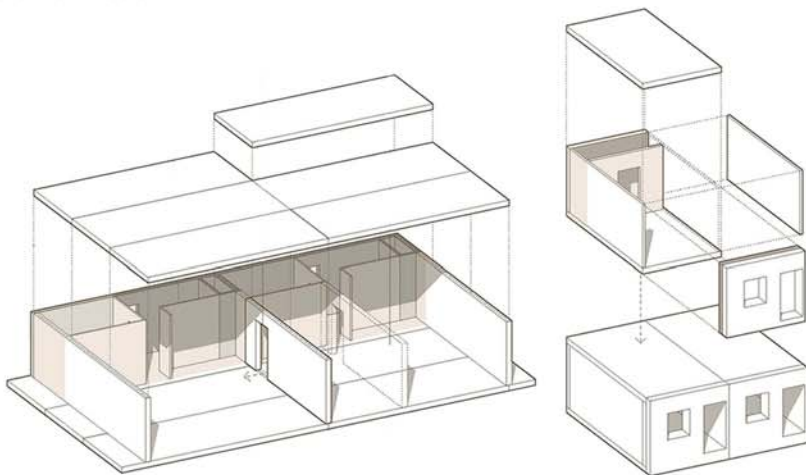
Scale model



Installation process of the prefabricated façade panel.



Corner of Grande Bretagne Avenue and Georges Charpak Street.



Prefabricated module



References:

- Visit to the building on 21.09.21.
- ICADE. Interview to David Bruchon on 21.09.21.
- Dietrich Untertrifaller Architects <https://n9.cl/7w6n> [18.03.21].
- Fédération Promoteurs Immobiliers <https://n9.cl/l7eyg> [18.03.21].



Axonometrical view