StoraEnso

Partner of Stora Enso

Woodeum

HOSTA

Porte Brancion, France

HOSTA makes transforming a ring road around Greater Paris into a natural and vibrant urban boulevard look effortless. But construction in this tangle of urban infrastructure actually presented a web of architectural and technical challenges. Thanks to Woodeum, a leading "wood" real estate specialist and developer, and a lightweight and robust Sylva™ by Stora Enso CLT building kit, there was a material solution for Agence Hardel Le Bihan's architectural design.

Hosta accommodates 114 bedrooms in a 7-storey hall of residence for young workers suspended over six lanes of traffic on the Porte Brancion.

Given the location, had the building been constructed with concrete, it would have been so heavy that it could only be four floors high.

The mixed-use residential space will also provide two commercial shops on the ground floor and is being built in conjunction with a 4-storey, 3,500 m² sports building with public access and a 5-storey, 3,875 m² student residence with 162 rooms and commercial retail space with 22 underground parking spaces.

Using prefabricated Sylva™ CLT Floors and Roofs helped facilitate deliveries in the high-congestion area, where there is no room for on-site storage.

Delivery trucks are much smaller than heavy cement trucks, so the trucks can drive through the tight entranceway to the site with just-in-time, perfectly planned loads.

Each Sylva™ element was precoated with an insecticide according to code, which also helped ease the installation process. The coating was effective against wood-eating larvae (house buck, lyctus, rodent beetle), termites, fungi, and basidiomycetes (brown and white rot) and provided another layer of protection during transport, site storage, and installation.

In Woodeum's and Stora Enso's continued efforts to lower emissions, some of the Sylva™ CLT elements were delivered by train. Only the "last-mile" was delivered by truck.

Transport emissions:

- Rail + last mile delivery: 8.1 CO_2e (kg)

- Road transport: 67.8 CO_2e (kg)

More than eight times less transport emissions than had the entire project been delivered by road. (Source: Turner &Townsend).

Learn more about the advantages with mass timber download whitepaper

StoraEnso

République Immo Bronze Winner 2024

General

Delivery year

Under Construction

Building type

Mixed used buildings

Area (m²)

4,286

Storeys

7

Units

114



Photo credit: Elise Robaglia – Potion médiatique



Photo credit: Hardel & Le Bihan Architectes

Products

StoraEnso

Products and Services

Sylva™ CLT Floors and Roofs

Product quality

NVI

Product volume (m³)

1,112



Photo credit: Stora Enso

Team

Partner of Stora Enso

Woodeum

Developer

WOODEUM
Régie Immobilière de la Ville de Paris



Photo credit: Vincent Fillon

Architect

Hardel Le Bihan

Main contractor

AUX CHARPENTIERS DE France

Specialist Timber Subcontractor

AUX CHARPENTIERS DE France

Others

Total construction development cost (€)

24,000,000