StoraEnso

Partner of Stora Enso

BOUYGUES BATIMENT FRANCE

Joliot-Curie Temporary Modular School

Bagneux, France

Are you interested in wooden construction that is quick and easy to install but can also be fully dismantled and reused at different locations? If so, read more about Joliot-Curie's temporary modular school.

Bouygues Construction and Technologie Habitat (TH) Habitat, in conjunction with Atelier B2A, developed this highly innovative modular concept to provide a temporary, functional school while Joliot-Curie School is renovated.

The temporary school is designed so it can be installed in a matter of days and fully dismantled and reassembled at a different location when it is no longer needed.

The concept is the result of close collaboration between construction and engineering teams with expertise with mass timber (WeWood) at Bouygues Bâtiment Ile-de-France. Together, they devised modular classrooms made from products based on renewable materials, such as mass timber structure, unfired clay bricks and a wood-and-straw façade.

It was built off-site at TH's plant in eastern France using Sylva™ CLT Walls, Floors, and Roofs by Stora Enso. The 126 teaching modules will provide the structure for the learning environment divided into 22 classes. Unlike many temporary structures like porta cabins these modules are of a beautiful high quality using solid wood to provide a biophilic learning atmosphere.

It took 28 weeks to develop and manufacture off-site but just 28 days to install. The overall architectural design is both modest and contemporary, with the facades designed to conceal the modularity of the structure.

It is targeted to meet the certification for the 2031 threshold under RE2020 regulations, with level 3 for bio-sourced construction exceeded and a reusability rate of over 80%.

The first timber modules will be installed in Bagneux over the summer of 2024, with the school scheduled to open in April 2025.

Learn more about the benefits of mass timber construction

Download the whitepaper

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General

Delivery year

Under Construction

Building type

Education

Area (m²)

2,690

Storeys

2

Units

100



Photo credit: Atelier B2A/Archi Graphi

Products

Products and Services

Sylva™ CLT Floors and Roofs, Sylva™ CLT Walls

Product quality

NVI and VI

Product volume (m³)

681

Product delivery duration (weeks)

18

Number of deliveries

8

StoraEnso

Team

Partner of Stora Enso

Bouygues Bâtiment France

Developer

Département des Hauts-de-Seine

Architect

ATELIER B2A

Structural Engineer

MEBI

MEP Designer

EPDC

Main contractor

BOUYGUES BATIMENT ILE DE FRANCE

Specialist Timber Subcontractor

Technologie Habitat (TH)

Timber Engineer

Technologie Habitat (TH)

Others

Total construction development cost (€)

14,500,000

Timber superstructure erection duration (weeks)

4