



StoraEnso

Partner of Stora  
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# Six Degrés Gentilly, France



Six Degrés in Gentilly, France, is a 39,000 m<sup>2</sup> mixed-use office-led building 20 minutes south of the heart of Paris.

This low-carbon campus combines offices, shops, an amphitheatre, nursery, gym, and car park. It can accommodate 2,900 people in three buildings linked together by footbridges and 10,000 m<sup>2</sup> of tree-lined terraces.

Instead of using conventional steel and concrete that generate high amounts of climate-heating emissions, SCOR, Bouygues Bâtiment Ile-de-France and the architects have combined their skills to meet France's stringent environmental standards with:

- Engineered wood in the superstructure. The cross-laminated timber (CLT) only generated 225 tonnes of greenhouse gases to manufacture. This alone avoided 4,888 tonnes of greenhouse gases. (Source [Stora Enso Carbon Calculator](#)).
- Low-carbon concrete in infrastructure and foundations, which generates fewer emissions compared to traditional concrete
- Algae-based paints
- Circular economy on various architectural finishing materials
- Façade in tinted prefabricated concrete

## Construction

Constructed over the course of several years (the architectural competition was in 2016, and it was completed in May 2024), the complex was designed by the duo of architectural agencies Hardel Le Bihan Architects and Alain Barthe Architects and Niez Studio for the landscaping.

The use of off-site prefabrication, both for the structural parts (glued laminated timber (GLT) posts and beams, CLT slabs and floors (4,396 m<sup>3</sup> of [Sylva CLT Floors, Roofs, and Walls](#) elements, laminated veneer lumber (LVL) cover boards, concrete façade, and for the technical parts (pipework in the technical and distribution rooms, terminal regulation), has enabled waste to be reduced by 70% and work schedules to be optimised, in some cases halved according to Bouygues.

This project also took advantage of Stora Enso's [Sylva Service](#) that preapplied [insecticide](#) and [end grain sealer](#) and preinserted lifting devices in their mills under factory controlled conditions so when the elements arrive on-site, they are ready to install immediately.

## Insights from architects on using prefabricated mass timber

Alain Barthe, one of the architects reflecting on the project and using mass timber, said, "I had never worked with Stora Enso before, but its impressive production capacity was perfectly suited to this operation. This was a very complicated project that spanned several years, and it was necessary to find a company that could secure the flow of wood and the quality."

**Cyrille Le Bihan and Mathurin Hardel**, architects talking about the project, said, "the technical richness and low-carbon ambitions of the Six Degrés project lie in the fact that it combines the use of [mass timber for the structure](#), prefabricated concrete for the façade, and the reuse of many of the building's ancillary elements."

**The renewable materials company**



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**Certifications and environmental badges targeted:**

- HQE Excellent level
- BREEAM Excellent Level
- OSMOZ Lever Frame
- E+/C- profile E2C1
- BBCA (Low Carbon Building)
- Bio-based Level 2
- BiodiverCity
- WiredScore GOLD level

The Sylva kit will play a significant role in achieving these ambitious labels.

**Key Facts:**

**39,000 m<sup>2</sup>** offices and associated services

**1,175 m<sup>2</sup>** ground floor agora

**1,035 m<sup>2</sup>** business centre

**28,280 m<sup>2</sup>** offices that can accommodate 2,949 people in R+6

**435 m<sup>2</sup>** conference room with seating capacity for 190 people

**443 m<sup>2</sup>** fitness space for 80 people

**415 m<sup>2</sup>** nursery with a capacity of 25 cots

**900 m<sup>2</sup>** shops (3 independent shops)

**Access hall** to the Grand Paris metro Line 14

**Learn more about the advantages with mass timber**

[Download whitepaper](#)

[Livre blanc Les 10 avantages de la construction en bois massif](#)



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## General

### Delivery year

2023

### Area (m<sup>2</sup>)

39,000

### Units

3

### Building type

Office

### Storeys

6



Photo credit: ©Schnepp Renou

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## Products

### Products and Services

Sylva™ CLT Floors and Roofs,  
Sylva™ CLT Walls

### Product quality

NVI and VI with Sylva Services  
Protect and Connect

### Product volume (m<sup>3</sup>)

4,396

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## Team

### Partner of Stora Enso

Bouygues Bâtiment France

### Architect

HARDEL LE BIHAN

ALAIN BARTHE ARCHITECTURE

Niez Studio (Landscaping)

### Specialist Timber

#### Subcontractor

Bouygues Bâtiment Ile-de-France Construction Privée

### Developer

SCOR Investment Partners

### Main contractor

CALQ ARCHITECTURE

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## Others

### Construction duration (months)

36