



StoraEnso

Partner of Stora
Enso

Mélia Residence

Taverny, France

Woodeum

Thanks in large part to the extensive use of Stora Enso's Sylva™ CLT Walls, Floors and Roofs, Mélia is the first residence in France to be awarded the highest level of excellence by the BBCA (the definitive association for low-carbon building). Mélia fully meets new Environmental Regulations, RE2020, an exacting standard not required to be upheld until 2031.

Part of the carbon performance of the project comes from the optimization of concrete used in the structure in the basement, on the ground floor, and for stairwells.

The reinforcement of the beams has been reduced by 30 to 40% thanks to the reduction of loads on the upper levels: CLT has a weight four times less (600 kg/m³) than concrete (2.5 T/m³) for the same volume.

The superstructure composed of 1,164 m³ of wood from sustainably managed forests was assembled in just five months. The Sylva building kit by Stora Enso was delivered by river and road transport, which reduced logistics-related emissions by 35% had all of the wood been delivered on trucks.

In addition, this construction of 94 housing units designed by 3M architects, the result of a collaboration with the City of Taverny, is exemplary in terms of social diversity. It has an educational space of 347 m² for young autistic people, created in partnership with the HAARP association and a solidarity flatshare for people with disabilities of 330 m² managed by the social and solidarity enterprise HOMNIA, 45 intermediate rental housing units owned by IN'LI, 20 social housing CDC Habitat, 28 housing units in accession as well as a landscaped park of 700 m².

With this new achievement, Stora Enso's partner Woodeum once again demonstrates their innovative capacity and leadership in the fight against global warming by deploying solutions to reduce the carbon footprint of the building sector drastically.



BBCA Excellent at the design stage

General

Delivery year

2022

Area (m²)

6,189

Units

94

Building type

Multi Residential

Storeys

5



Photo credit: ©Epaillard+Machado



Photo credit: ©Epaillard+Machado

Products

Products and Services

Sylva™ CLT Floors and Roofs,
Sylva™ CLT Walls

Product volume (m³)

1,297

Number of deliveries

23

Product quality

NVI and a few of the Sylva
Walls are VI

Product delivery duration (weeks)

17



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StoraEnso

Team

Partner of Stora Enso

Woodeum

Architect

Atelier M3

MEP Designer

CAPET ingénierie

Specialist Timber Subcontractor

Etablissements Poulingue SAS

Developer

Woodeum

Structural Engineer

Teckicéa
MO Ingénierie

Main contractor

Léon Grosse



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