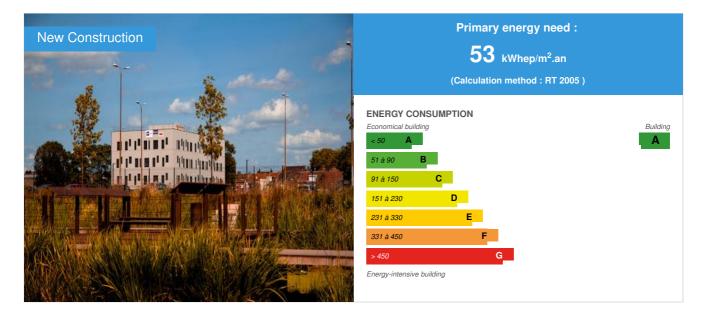
CONSTRUCTION21

Urbawood Lille

by Rodolphe Deborre / (1) 2015-05-22 11:20:59 / France / (3) 14398 / 🍽 FR



Building Type : Office building < 28m Construction Year : 2014 Delivery year : 2014 Address 1 - street : 59000 LILLE, France Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 2 587 m² Construction/refurbishment cost : 2 600 000 € Number of Work station : 299 Work station Cost/m2 : 1005.03 €/m²

Proposed by :



General information

URBAWOOD is an innovative project of commercial building 100% wood, "oriented" sustainable development, born from the combination of 3 companies: Gerim, Nacarat Wood Construction and Design.

This concept was realized for the first time on THE urbawood located in Lille. In short:

- Surfaces: 2500 sq.m. / 2,250 m² Useful Surface (5 levels)
- Capacity: 299 people
- Level Energy Performance BBC (Low Consumption Building)
- Location: Quai Hegel ZAC Euratechnologies Lomme (59)

https://www.youtube.com/watch?v=KO1Y0GH9-Pg

Sustainable development approach of the project owner

Nacarat develops a committed sustainable development approach, based on an exeplary and certified ecodesign tool. Here, URBAWOOD is a turn key solution made out out of wood to the creation of tertiary spaces. This efficient concept of modular building makes possible the construction of RT2012 office buildings within weeks. The surfaces keep all the promises made in terms of construction reliability, deadlines ...

The first 4 level building (representing 2,600 m²) was built in less than 6 weeks!

Architectural description

Developed by Nacarat and designed with the architecture firm Agence A, this new 2,600m² large building was built with an industrial 100% wood process (European and PEFC certified), for the production of the two facades, floors, the partitions and the elevator shaft. From the foundations on March 12, 2012 to the end of the envelope on June 10th, it took only three months for regional construction companies Gérim and Création Bois to achive the construction.

The well-being of future occupants is also one of the ambitions of the project, because beyond the warmth and natural look provided by wood, they will benefit from a high level of thermal and visual comfort, enhanced by integration of sunscreens on exposed facades.

Building users opinion

"The Urbawood building was built in record time, with an innovative process. We have installed on the first three levels, our ADICODE® spaces (innovation and co-design workshops). Installing innovative spaces in an innovative building, what a coincidence and a symbol for us to use in promotion!"

The completion of construction was done in excellent collaboration - and in a very united way - with teams from Nacarat, who were able to meet our deadlines and our ... "quirks"!

It is a building where it feels good to be, wooden construction gives a real cozy dimension. Several months after we moved in, the scent of the wood still exhales into the stairwell, it reminds itself to us with each pass, it's a nice touch for the "inhabitants" of the "house." "

Céline Dubois-Duplan, Marketing Manager / Corporate Relations Group HEI ISA ISEN, pilot ADICODE®

If you had to do it again?

Other Urbawood concept projects are currently in design in 2015. Other 100% wood projects or with wood facade / concrete core are under construction, while others have already been delivered.

See more details about this project

http://www.urbawood.fr/

Stakeholders

Stakeholders

Function : Others

Diagobat

Bertrand André

http://www.diagobat.fr/

Function : Company Creation bois construction

http://www.creationbois.fr/

Function : Others Gerim

Rodrigue Lescaillet

http://www.gerim.com/fr

Function : Others Effigenie

Camille Thiriez

https://www.effigenie.com/

Function : Designer cabinet d'architectes Agence A

Contracting method

Off-plan

Energy

Energy consumption

Primary energy need : 53,00 kWhep/m².an Primary energy need for standard building : 115,00 kWhep/m².an Calculation method : RT 2005 Breakdown for energy consumption : Heating: 12 kWhEP / m² / year Lighting: 27 Hot Water ref: 0 Auxiliary: 14.4

Envelope performance

Envelope U-Value : 0,35 W.m⁻².K⁻¹ More information : 100% Wood, including the elevator shaft.

Renewables & systems

Systems

Heating system :

- Condensing gas boiler
- Water radiator

Hot water system :

No domestic hot water system

Cooling system :

No cooling system

Ventilation system :

- Nocturnal Over ventilation
- Double flow heat exchanger

Renewable systems :

No renewable energy systems

Smart Building

BMS :

To provide optimum control of the installation, EFFIPILOT takes into account daily occupancy data, comfort, related to weather forecasting and to the building inertia. These data are then introduced into algorithms

Environment

Urban environment

Land plot area : 1 200,00 m²

Built-up area : 60,00 %

Green space : 40,00

Located in Euratechnologies, a many times national award-winner eco-district, Urbawood® is part of an innovative, mixed urban project designed by Soreli. This new district of Lille -where Nacarat is also developing three other Programmes - will eventually include 1,600 residents and 3,000 jobs in the ICT sector.

Product

Effipilote

Effigénie

Camille Thiriez

https://www.effigenie.com/

Product category : Management / Facility management Control and optimization of the Building Management System

The system seems to pose no concern.

Costs

Construction and exploitation costs

Cost of studies : 160 000 € Total cost of the building : 2 600 000 €

Health and comfort

Water management

Phytoremediation on Euratechnologie area for rainwater

Indoor Air quality

An air quality study was conducted by the Ecole des Mines de Douai, specifically to test the methodology on a wooden building. The results of the methodology are satisfactory ... and the measurements of air quality too.

Comfort

Acoustic comfort : Despite the acoustic qualities recognized by the user, the building has not passed the theoretical level requested by Certivéa. This gap prevents the building to get the BBC label Effinergie although it has the required energy potential

Carbon

GHG emissions

Rabot Dutilleul realized 3. Scope 3 carbon footprint more than 2/3 of broadcasts from reinforced concrete used in our constructions. Obviously, a building 100% (European PEFC) can only be favorable in comparison to a more technical conventio

Life Cycle Analysis

Eco-design material : -210 M3 of glulam (poles beams)Massive wood -60m3 (floors and skeleton poles framing wall) -8 M3 of cross-laminated timber (KLH elevator shaft) -30m3 Cladding -4m3 Lathing -63 M3 bracing wall panels and flooring. - Not Counted: baseboards, interior doors, ...

More than 375 m3 of wood approx / 2587 sq.m. = 145 dm3 / m² SHON.



Contes

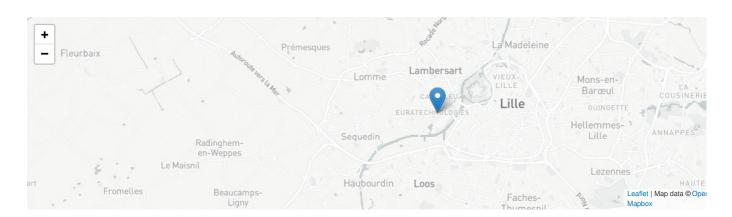
Reasons for participating in the competition(s)

Biosourcé : 100% bois Smart Building : Solution Effipilote pionnière en matière de pilotage de GTB Santé confort : 100% bois intérieur extérieur; primé AMO 2014 pour la qualité au travail, analyse qualité de l'air spécifique (batiment bois) par l'Ecole des Mines de Douai Troisième Révolution Industrielle :

Efficacité énergétique

- Economie Circulaire
- Réseaux intelligents

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