

# **Condominium 48 rue de Saint Cloud in Nanterre**

by Thomas Lemerle / () 2019-02-20 10:18:43 / Francia / () 5338 / 🍽 FR

<image/>	Primary energy need : <b>102</b> kWhep/m <sup>2</sup> .an (Calculation method : )
	ENERGY CONSUMPTION Economical building Building < 50 A 51 à 90 B 91 à 150 C
	151 à 230 D   231 à 330 E   331 à 450 F   > 450 G   Energy-intensive building

Building Type : Collective housing < 50m Construction Year : 1955 Delivery year : 2019 Address 1 - street : 92000 NANTERRE, France Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 5 154 m<sup>2</sup> Construction/refurbishment cost : 1 929 521 € Number of Dwelling : 64 Dwelling Cost/m2 : 374.37 €/m<sup>2</sup>

Proposed by :



# General information

Located in Nanterre, this condominium consists of four buildings and 64 homes was built in 1955. It has not been renovated since and that is why in 2016, the syndicate of condominium has decided to renovate .

Thus, the work that has been done is:

-Low pressure ventilation

-Collective condensing boiler

-Collective heat of sanitary water

-Isolation from the outside of the walls and the roof

This allowed to divide by almost 3 the energy consumption of the condominium from 283 to 102 kWeh / m<sup>2</sup> / year. The condominium has reached the BBC renovation level in some aspects without validating the certification by a certifying body.

# Sustainable development approach of the project owner

The project consists of the overall renovation of the 4 buildings of the condominium. This allowed to reach the level of performance BBC renovation (104 kWhep / m<sup>2</sup>SHON / year in Île-de-France) and therefore to greatly reduce energy consumption.

In addition, the financial effort was important from the condominium to "embark on energy renovation". Thus, all the inhabitants will be able to benefit from the comfort of this renovation.

# Architectural description

The condominium is composed of 64 dwellings spread over 4 buildings in R + 4.

The main architectural modifications of the project are:

- insulation from the outside of walls and roof
- balcony integration
- installation of shutters

### Building users opinion

The work related to the improvement of the building made it possible to use the surplus of power for the production of Hot Sanitary Water. Occupants are satisfied with the passage of individual to collective hot water; this avoids multiple subscriptions and maintenance contracts.

# See more details about this project

### Stakeholders

### Contractor

Name : GIERENS IMMOBILIER Contact : immobilier.gierens.copro@wanadoo.fr

# **Construction Manager**

Name : REANOVA Contact : haroldhugonenc@reanova.fr

# Stakeholders

Function : Thermal consultancy agency POUGET Consultants

jonathan.muller@pouget-consultants.fr

Thttp://www.pouget-consultants.eu/

Function : Environmental consultancy

### Contracting method

Separate batches

# Type of market

Table 'c21\_spain.rex\_market\_type' doesn't exist

# **Energy consumption**

Primary energy need : 102,00 kWhep/m<sup>2</sup>.an Primary energy need for standard building : 118,00 kWhep/m<sup>2</sup>.an Calculation method : Breakdown for energy consumption : Heating: 62% Domestic hot water: 26% Lighting: 7% Auxiliary ventilation: 4% Auxiliaries for heating and DHW: 2%

Initial consumption : 283,00 kWhep/m<sup>2</sup>.an

# Envelope performance

Envelope U-Value : 0,80 W.m<sup>-2</sup>.K<sup>-1</sup>

#### More information :

- 16 cm of insulation on the walls,
- 25 cm of insulation at roof terraces,
- 25 cm flocking at low floors.

### Renewables & systems

# **Systems**

#### Heating system :

• Condensing gas boiler

#### Hot water system :

Condensing gas boiler

#### Cooling system :

No cooling system

#### Ventilation system :

compensated Air Handling Unit

### Renewable systems :

• No renewable energy systems

#### Environment

### Urban environment

Dense and mixed environment: individual dwellings, small collectives and large complexes.

### Products

### Product

Low pressure ventilation

#### ACHTYS

Vincent Benard

### http://www.acthys-ventilation.fr/

Product category : Table 'c21\_spain.innov\_category' doesn't exist SELECT one.innov\_category AS current,two.innov\_category AS parentFROM innov\_category

AS oneINNER JOIN innov\_category AS two ON one.parent\_id = two.idWHERE one.state=1AND one.id = '19' Low pressure ventilation to reuse existing individual ducts

For vents and air inlets in the housing; a witness was made so that the occupants could visit it and be informed in advance of the work that will be done in their home.



### Costs

### Carbon

# **GHG** emissions

GHG in use : 31,00 KgCO<sub>2</sub>/m<sup>2</sup>/an GHG emissions before renovation: 52 KgCO2 / m2 / year

#### Contest

### Reasons for participating in the competition(s)

Located in Nanterre, this condominium consists of four buildings and 64 homes was built in 1955. It has not been renovated since and that is why in 2016, the syndicate of co-ownership has decided to renovate .

Thus, the work that has been done is:

-Low pressure ventilation

-Collective condensing boiler

-Collective heat of sanitary water

-Isolation from the outside of the walls and the roof

Achères

This allowed to divide by almost 3 the energy consumption of the condominium from 283 to 102 kWeh / m<sup>2</sup> / year. The condominium has reached the BBC renovation level in some aspects without validating the certification by a certifying body.

### Building candidate in the category **Green Solutions** dity Construction21.org Energie & Climats Tempérés Bessancourt Forêt domanial Courdimanche de Montmorency Vauréal Ézanville Menucourt Taverny la-Forêt Jouy-le-Moutier Beauchamp x-sur-Seine Saint-Brice-Le Plessis-Conflans-Saintesous-Forêt Bouchard Honorine Maurecou Eaubonne Herblay Franconville Montmorency André sur-Seine Triel-sur-Seine La Frette Sannois QUARTIER Saint-Gratien

Pierrefittesur-Seine

Château d'

Sarc



Date Export : 20230714064232