


Hélène Boucher condominium in Sevrans

by VERONIQUE VERNA / 2019-02-13 16:39:32 / France / 8080 / FR



Renovation

Primary energy need :

64 kWhep/m².an

(Calculation method : RT existant)

ENERGY CONSUMPTION

Consumption Range (kWh/m ² .an)	Label	Building Position
< 50	A	Economical building
51 à 90	B	Building (64 kWhep/m ² .an)
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 : 1973
Delivery year : 2018
Address 1 - street : 10 ALLEE HELENE BOUCHER 93270 SEVRAN, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 1 700 m² SHON
Construction/refurbishment cost : 480 811 €
Cost/m2 : 282.83 €/m²

General information

Energy renovation of a small joint ownership of 23 lots in Sevrans (in Paris suburbs) as part of the "OPAH Quartier Rougemont". The works included the insulation of the roof terrace, the installation of a thermal insulation from the outside, the replacement of all the joinery, the installation of a humidity-sensitive ventilation, the insulation of the low floor and the setting up of the building's safety. The energy saving is 68%.

Sustainable development approach of the project owner

Rehabilitation and energy renovation of a 1970 condominium: 23 housing units under the OPAH of the Rougemont district with the operator OZONE.

Insulation from the outside, Insulation of the roof terrace, replacement of all windows, and upgrading common areas. ECIC thermic. EVAM syndic. Budget 480 € 811 ht.

This allowed to divide by almost 3 the energy consumption of the condominium from 178 to 64 kWh/m²/year. It has reached certain levels of BBC renovation requirement (without being labeled) thanks to this performance.

Building users opinion

The occupants dropped the interior heating temperature by 3 ° C.

Stakeholders

Contractor

Name : SYNDIC EVAM 17/19 Rue Jean Charcot, 93600 Aulnay-sous-Bois

<http://www.evam-gid.com>

Construction Manager

Name : VERNA ARCHITECTES

Contact : VERONIQUE VERNA

<https://www.verna-architectes.com/>

Stakeholders

Function : Thermal consultancy agency

ECIC Ecic 2, av. du Régiment Normandie Niémen 91700 Sainte-Geneviève-des-Bois

FANNY PELLETANT

THERMAL DIAGNOSTICS

Function : Assistance to the Contracting Authority

OZONE 34 av. Raspail 94250 Gentilly

Benoit MAAS

ozone-conseils.fr

Type of market

Global performance contract

Energy

Energy consumption

Primary energy need : 64,00 kWh_{ep}/m².an

Primary energy need for standard building : 178,00 kWh_{ep}/m².an

Calculation method : RT existant

CEEB : 0.0002

Breakdown for energy consumption : 22% heating

30% ECS

9% lighting

2% auxiliary pumps

5% auxiliary fans

Initial consumption : 178,00 kWh_{ep}/m².an

Real final energy consumption

Final Energy : 57,00 kWh_{ef}/m².an

Envelope performance

Envelope U-Value : 0,62 W.m⁻².K⁻¹

Renewables & systems

Systems

Heating system :

- Urban network

Hot water system :

- Urban network

Cooling system :

- No cooling system

Ventilation system :

- Humidity sensitive Air Handling Unit (Hygro B

Renewable systems :

- No renewable energy systems

Environment

Urban environment

Residential environment, Rougemont district in Sevran.

Products

Product

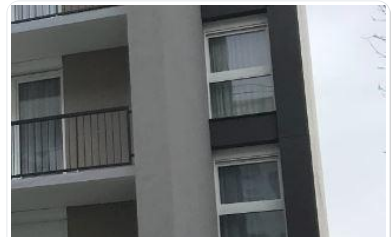
JOINERY FLAME PROTECTION

LORILLARD

Product category : Second œuvre / Menuiseries extérieures

Replacement of the windows and guardrail doors with a carpentry with a fixed flame arrestor to respect the C + D

Clear glazing and increased standards



Costs

Construction and exploitation costs

Cost of studies : 6 403 €

Total cost of the building : 628 000 €

Subsidies : 521 900 €

Carbon

GHG emissions

GHG in use : 10,00 KgCO₂/m²/an

Methodology used :

Existing RT

GHG emissions were 30 KgCO₂ / m²

Contest

Reasons for participating in the competition(s)

Energy renovation of a small joint ownership of 23 lots in Sevrans as part of the "OPAH Quartier Rougemont". The works included the insulation of the roof terrace, the installation of a thermal insulation from the outside, the replacement of all the joinery, the installation of a humidity-sensitive ventilation, the insulation of the low floor and the setting up of the building's safety. The energy saving is 68%.

Building candidate in the category



Energie & Climats Tempérés



Prix du public



Prix des Etudiants

