


## Villa Mona Lisa

by Groupe Qualitel / 2019-01-10 12:40:07 / Francia / 3762 / FR

**New Construction**



**Primary energy need :**

55 kWhep/m<sup>2</sup>.an

(Calculation method : RT 2012 )

**ENERGY CONSUMPTION**

Consumption Range (kWh/m <sup>2</sup> .an)	Grade
< 50	A
51 à 90	B
91 à 150	C
151 à 230	D
231 à 330	E
331 à 450	F
> 450	G

*Economical building* (Grades A-C) | *Building* (Grade A) | *Energy-intensive building* (Grades F-G)

**Building Type** : Collective housing < 50m  
**Construction Year** : 2016  
**Delivery year** : 2018  
**Address 1 - street** : 7 rue de l'Eglise 67810 HOLTZHEIM, France  
**Climate zone** : [Cfb] Marine Mild Winter, warm summer, no dry season.

**Net Floor Area** : 1 014 m<sup>2</sup>  
**Number of Dwelling** : 13 Dwelling

**Certifications :**



### General information

**Quality of life**

- Vegetation (> 50%) of the surroundings of the buildings
- Composting present on the operation
- Private outdoor spaces of at least 3m<sup>2</sup> (80%)
- Bike / stroller room accessible via 1 door only
- Taking into account noise related to the elevator and heating equipment
- Treatment of shock and noise noises in housing

**Air quality**

- optimized with materials labeled A +; EMICADE EC1 + or with a GUT European Ecolabel

#### Architectural concept

- Design of the kitchen offers 2 possibilities of development (open or closed)
- Motorized occultations (main rooms)
- Reduced risk of glare: bay arrangements
- Artificial lighting common and local areas optimized
- Child protection on windows and French windows

#### Environmental aspect

- Elevator with energy recovery
- Water meter equipped with remote reading system
- Coefficient of waterproofing of the plot <80%
- Taps with comfort class C3
- Performance level RT2012 -20%
- Energy-independent exterior common circulation lighting
- Economic performance
- Presence of renewable energies

#### Project management

- Realization of a study in global cost
- Realization of a provisional estimate of the expenses of operation of the building
- Energy supply studies

#### Heating energy

- Heated operation thanks to gas and electricity
- Thermal insulation
- Thermal insulation adapted by walls (mixed)

#### Ventilation

- Humidity controlled ventilation type B

#### Carpentry and occultation

- PVC joinery and wood + motorized shutter

Brands and labels: - NFH Habitat HQE Up 9 Stars

- Economic performance: 3 stars

- Quality of life: 3 stars

- Respect of the environment: 3 stars

- Level RT2012 -20% (CEP 45)

- Label E + C- (currently validated)

[🔗 RT 2012 -20 CEP 45](#)

## Photo credit

CERQUAL Qualitel Certification

## Stakeholders

### Contractor

Name : ANTEUM

[🔗 https://anteum.fr/](https://anteum.fr/)

### Construction Manager

Name : ANTEUM

[🔗 https://anteum.fr/](https://anteum.fr/)

## Energy

### Energy consumption

Primary energy need : 55,00 kWhep/m<sup>2</sup>.an

Primary energy need for standard building : 75,40 kWhep/m<sup>2</sup>.an

Calculation method : RT 2012

## Renewables & systems

### Systems

Heating system :

- Gas boiler
- Condensing gas boiler
- Electric radiator

Hot water system :

- Gas boiler
- Other hot water system

Ventilation system :

- Humidity sensitive Air Handling Unit (Hygro B)

Renewable systems :

- No renewable energy systems

## Costs

## Health and comfort

### Comfort

Acoustic comfort :

Shock noise attenuation -3 dB

## Carbon

### GHG emissions

GHG in use : 10 200,00 KgCO<sub>2</sub>/m<sup>2</sup>/an

Methodology used :

CEP x AREA x Co<sub>2</sub> emission value

## Contest

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

- Gain compared to the regulatory level
- Energy performance was sought with a gain on Bbio of 37% against 22% on average
- The same goes for the Cep of the operation with 55.2kWh / year / m<sup>2</sup>, a gain of 27% against 18% usually on certified operations.
- The operation saves 20,500 kWh and 4 tons of CO<sub>2</sub> equivalent per year

- The building meets the NF HABITAT HQE SUPERIOR standard

## Building candidate in the category



Energie & Climats Tempérés



Prix du public



Prix des Etudiants

