


Villa Mona Lisa

by Groupe Qualitel / 2019-01-10 12:40:07 / Francia / 3506 / FR

New Construction



Primary energy need :

55 kWhep/m².an

(Calculation method : RT 2012)

ENERGY CONSUMPTION

Consumption Range (kWhep/m ² .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, B, C) | *Building* (Grade A) | *Energy-intensive building* (Grades D, E, 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 m²

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 3m² (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/m².an

Primary energy need for standard building : 75,40 kWhep/m².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 KgCO₂/m²/an

Methodology used :

CEP x AREA x Co₂ 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 / m², a gain of 27% against 18% usually on certified operations.
- The operation saves 20,500 kWh and 4 tons of CO₂ 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

