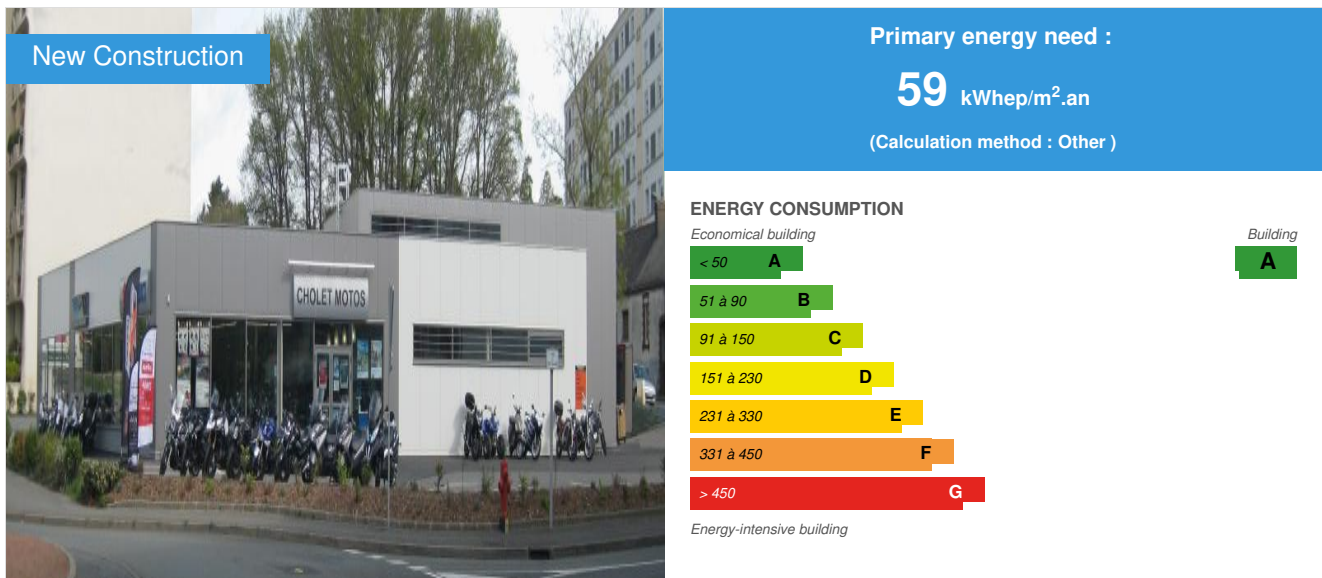


Cholet Motorcycles

by Tugdual ALLAIN / 2014-04-22 20:14:12 / Frankreich / 7904 / FR



Building Type : Store in a shopping mall
Construction Year : 2013
Delivery year : 2014
Address 1 - street : 49300 CHOLET, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 750 m²
Construction/refurbishment cost : 403 000 €
Number of Visitor : 100 Visitor
Cost/m² : 537.33 €/m²

Certifications :



General information

Construction of a motorcycle passive store with a construction cost of 570 € HT/m².

Since the delivery in mid-January 2014 the heating has not been put into operation for an internal temperature never lower than 16 ° C.

Sustainable development approach of the project owner

The goal was to build a passive building at the same price as a RT2012 (French thermal regulation for buildings) building. The construction budget is 570 € HT per m². It should be noted that the client did not know what a passive building was when the prime contractor was chosen.

Architectural description

Metal structure, sandwich panels in front, joinery type stabalux triple glazing, waterproofing cover, n50 = 0.15

Building users opinion

Perfect thermal comfort due to the absence of cold walls and the absence of parasitic air currents. A very pleasant acoustic comfort due to the very good air tightness and triple glazing.

If you had to do it again?

Particular attention should be paid to summer comfort. The customer found the installation of external blinds superfluous, which will certainly be realized before the summer

See more details about this project

<http://www.equipe-ingenierie.fr/nos-realisations/>

Stakeholders

Stakeholders

Function : Construction Manager

EQUIPE INGENIERIE

M Tugdual ALLAIN 02 41 55 35 21

<http://www.equipe-ingenierie.fr>

Function : Designer

INSO ARCHITECTURE

Mme Marie CHAPPAT 06 83 26 55 02

<http://www.inso.pro>

Function : Contractor

SCI YAPA CHOLET MOTO

M Patrick BOSSARD 02 41 62 24 19

<http://kawasaki.cholet-motos.fr/>

Contracting method

Separate batches

Type of market

Table 'c21_germany.rex_market_type' doesn't exist

Energy

Energy consumption

Primary energy need : 59,00 kWh/m².an

Primary energy need for standard building : 110,00 kWh/m².an

Calculation method : Other

CEEB : 0.0001

Breakdown for energy consumption : According to PHPP calculation: - Heating: 18% - DHW: 25% - Lighting and technical equipment: 48% - Auxiliary: 9%

Real final energy consumption

Final Energy : 110,00 kWh/m².an

Real final energy consumption/m2 : 25,60 kWh/m².an

Year of the real energy consumption : 2 014

Real final energy consumption/m2 : 21,00 kWh/m².an

Year of the real energy consumption : 2 015

Real final energy consumption/m2 : 21,70 kWh/m².an

Year of the real energy consumption : 2 016

Envelope performance

More information :

Outer walls: U = 0.103 W.m².K⁻¹

Roofs: U = 0.143 W.m².K⁻¹

Floors: U = 0.172 W.m².K⁻¹

Aluminum joinery: Uw = 0.76 W.m².K⁻¹

Building Compactness Coefficient : 0,55

Indicator : n50

Air Tightness Value : 0,15

More information

Calculation of energy Primary calculated according to the certified PHPP sheet (passive construction). Actual measured consumption The building at the time of the building permit was submitted only to RT2005.

Renewables & systems

Systems

Heating system :

- Electric radiator

Hot water system :

- Individual electric boiler

Cooling system :

- No cooling system

Ventilation system :

- Double flow heat exchanger

Renewable systems :

- No renewable energy systems

Solutions enhancing nature free gains :

Les façades sud et Ouest ont été très vitrées pour l'exposition client et bénéficier des apports solaires

Smart Building

BMS :

none

Environment

Urban environment

Built-up area : 725,00 %

Downtown Construction

Products

Product

Dual flow ventilation KWL EC 1400 D

HELIOS

01 48 65 75 61

<https://www.helios-fr.com/>

Product category : Table 'c21_germany.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'

High efficiency dual flow ventilation

The unit is certified by Passivhaus Institute, 82% efficiency



Costs

Construction and exploitation costs

Cost of studies : 35 000 €

Total cost of the building : 403 000 €

Energy bill

Forecasted energy bill/year : 1 600,00 €

Real energy cost/m2 : 2.13

Real energy cost/Visitor : 16

Health and comfort

Indoor Air quality

Dual-flow central unit controlled by the CO2 rate of the sales area: CO2 content less than 650ppm / m3

Contest

Building candidate in the category



Energie & Climats Tempérés





Date Export : 20230601163245