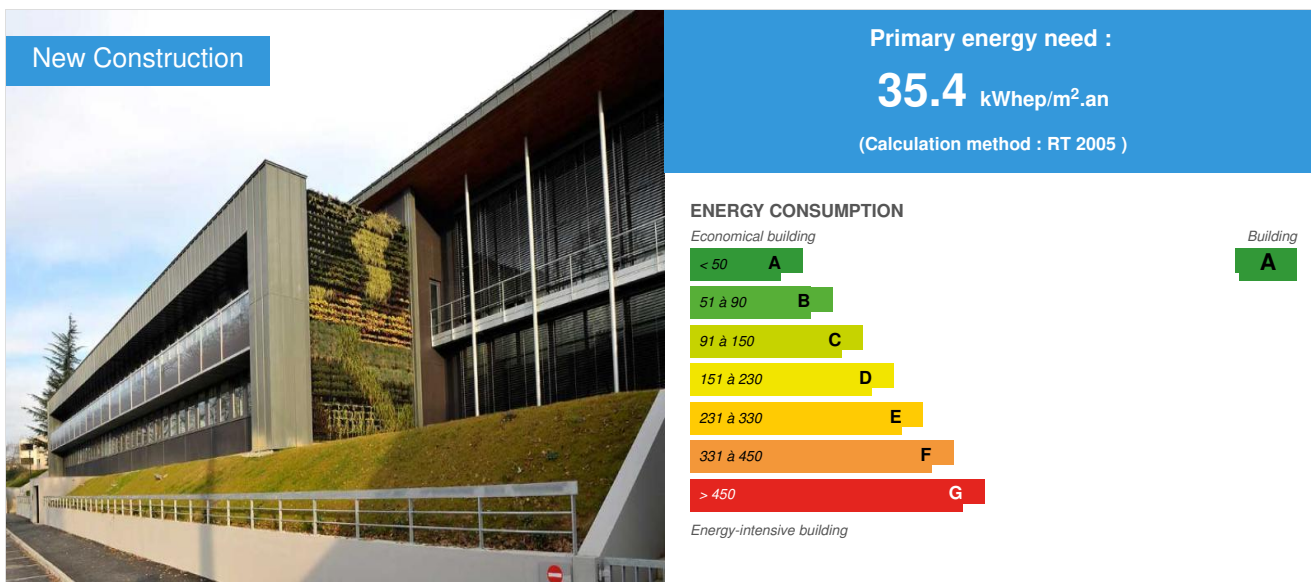


House of Solidarity of ORTHEZ (64) - Certified with label HQE BBC effinergie

by Jacques Suberbie / 2012-03-25 21:56:11 / France / 13130 / FR



Building Type : Office building < 28m
Construction Year : 2010
Delivery year : 2010
Address 1 - street : 5 rue Jean Marie Lhoste 64300 ORTHEZ, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 1 762 m²
Construction/refurbishment cost : 3 800 000 €
Cost/m2 : 2156.64 €/m²

Certifications :



Proposed by :

CERTIVEA

General information

Built by the General Council of Pyrenees-Atlantiques, delivered in late 2010 and commissioning in early 2011, it includes all the institutional partners of the social action of Orthez. Ce 1761 m² building, which houses seventy agents, is certified High Environmental Quality (HQE) NF tertiary buildings for all three phases (program, design and construction), ranked "outstanding" HQE and the international passport has been awarded the Low Energy Building, the 2005 level Effinergie BBC 12/01/2012.

Sustainable development approach of the project owner

HQE certified building referential label in 2010 with BBC effinergie 2005. Passport International Green Building ranked "outstanding" awards by CERTIVEA

Architectural description

Bioclimatic architecture orientated north-south, protected from prevailing winds.

Building users opinion

Very satisfied, this is another way to live in a building desktop. Very comfortable to use, for illumination and heating. The comfort of a summer is improving despite the GTB, comfort ventilation, and the Canadian well surventilation night. Indeed, this is a building with a very good performance of the air tightness 0.7, this performance also works the other way and any excess heat in the building in summer has trouble being evacuated.

If you had to do it again?

We will remake the same with even listen, the same team and the same ambitions.

See more details about this project

<https://plus.google.com/photos/106791329097613913996/albums/5688207457993885073>

Stakeholders

Stakeholders

Function : Contractor

CONSEIL GENERAL DES PYRENEES ATLANTIQUES

DAEE - Service Bâtiment - 05.59.11.44.93

<http://www.cg64.fr>

Function : Construction Manager

Gauche's Muru - Architectes

M. Xavier GAUCHE

<http://www.architectes-gauchemuru.fr/default.aspx>

Function : Construction Manager

CLIMELEC

M. MAISONNAVE

<http://www.yelp.fr/biz/climelec-anglet>

Function : Construction Manager

NOBATEK

M. GUILLIORIT

<http://www.nobatek.com/>

Function : Assistance to the Contracting Authority

INDDIGO

Mme FAUCONNEAU

<http://www.inddigo.com/>

Function : Certification company

CERTIVEA

Mme DEVELEY - 01 40 50 29 09

<http://www.certivea.fr/home>

Contracting method

Separate batches

Type of market

Global performance contract

Energy

Energy consumption

Primary energy need : 35,40 kWh/m².an

Primary energy need for standard building : 76,18 kWh/m².an

Calculation method : RT 2005

Breakdown for energy consumption : CONSUMPTION 35.4 Kwh EP/m2/an 18.14 LIGHTING, HEATING 8.86; COOLING 0.65; In ECS + Elec. 0.44; AUXILIARY - WIND. 7.32

Real final energy consumption

Final Energy : 35,40 kWh/m².an

Envelope performance

Envelope U-Value : 0,47 W.m⁻².K⁻¹

More information :

Sending the calculation RT 2005 on request by email.

Building Compactness Coefficient : 0,70

Indicator : n50

Air Tightness Value : 0,70

More information

GREENHOUSE GAS 2.91 0.59 KgeqCO2/m2/an LIGHTING, HEATING 2.05; COOLING 0.02; In ECS + Elec. 0.01; AUXILIARY - WIND. 0.24

Renewables & systems

Systems

Heating system :

- Condensing gas boiler
- Water radiator

Hot water system :

- No domestic hot water system

Cooling system :

- Others

Ventilation system :

- Nocturnal Over ventilation
- Double flow heat exchanger

Renewable systems :

- Solar photovoltaic
- Other, specify

Renewable energy production : 3,00 %

Smart Building

BMS :

GTB Support lightings, heating, alarms, ventilation DF, Canadian well .. grip a distance

Urban environment

Land plot area : 3 695,00 m²

Built-up area : 25,00 %

Located near the city center, opposite the station ensures continuity between the center and train station. The building is built to not interfere with the views of local residents. It possesses green roofs and green walls.

Products

Product

Heating and cooling by the Canadian well with central dual stream, lighting autogradable to detection of presence, GTB

HELIOS, PHILIPS, EES

Product category : HVAC, électricité / ventilation, cooling

Several systems in place: - Well with Canada's central turbofan - autogradable lighting with presence detection of wall-Plant-GTB performance

Well Canada can receive a small difference between 10Å ° C outside temperature and that of the well (recuperationn summer and winter). The temperature of the building is very stable which can generate discomfort in summer when it's 24a ° C was hiring in the building. The GTB is a valuable tool but need the expertise in its use for construction and operation.



Health and comfort

Water management

Water Consumption/m2 : 0.04

Water Consumption/Work station : 1

Consumption from water network : 70,00 m³

Water tank to regulate the flow of leaks, roofs, walls, vegetation and plant life.

Indoor Air quality

Indoor air filter before arrival at the central double-flow networks with top quality, CO2 sensor in meeting room.

Carbon

GHG emissions

GHG in use : 2,91 KgCO₂/m²/an

Methodology used :

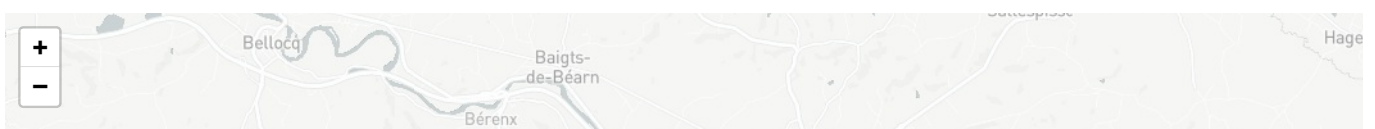
Calculating Thermal Regulations 2005 - GHG calculations based on the energy consumed by different sources

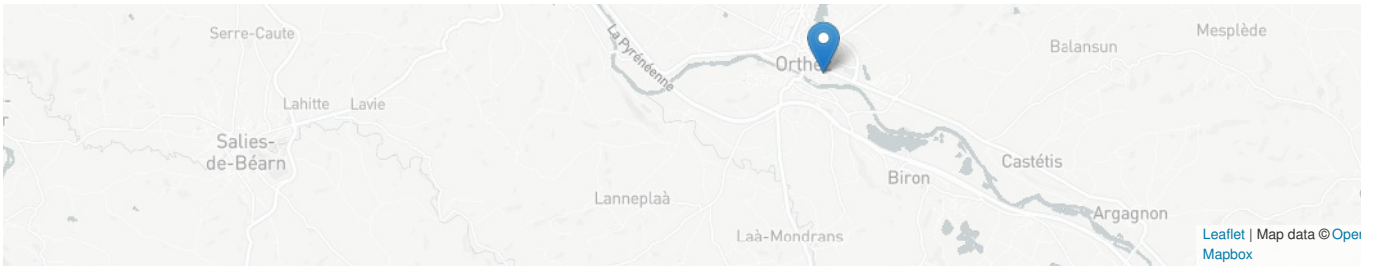
Building lifetime : 30,00 année(s)

GHG Cradle to Grave : 90,00 KgCO₂ /m²

Life Cycle Analysis

Eco-design material : Materials evaluated in phase of study and attainment, with CCTP caracteriques has achieved in terms of emission of VOCs. The complete details of these materials can be supplied on request, it is listed with the case and the fact sheets have been formed for the HQE.





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