



SKYLINE

by Bruno Linéatte / 2013-02-19 17:44:44 / France / 7699 / FR

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Primary energy need :

59 kWhep/m².an

(Calculation method : RT 2005)

ENERGY CONSUMPTION

Consumption Range (kWhep/m ² .an)	Label	Building Position
< 50	A	Economical building
51 à 90	B	Building
91 à 150	C	
151 à 230	D	
231 à 330	E	
331 à 450	F	
> 450	G	Energy-intensive building

Building Type : Office building < 28m
Construction Year : 2011
Delivery year :
Address 1 - street : 24 Mail Pablo Picasso 44007 NANTES, France
Climate zone : [Csb] Coastal Mediterranean - Mild with cool, dry summer.

Net Floor Area : 17 000 m² SHON
Construction/refurbishment cost : 40 000 000 €
Number of Work station : 1 000 Work station
Cost/m2 : 2352.94 €/m²

Certifications :



General information

This office building located in the heart of Nantes It is certified HQE (excellent) and labelled BBC Effinergie (low consumption buildings, according to the French thermic regulation RT 2005). Its particularity is to offer BBC performance without resorting to renewable energy, relying heavily on its eco-design (compactness, orientation, performance systems ...) and remaining completely in the price of the market.

Its location (less than 5 minutes walk from the train station) and travel Plan also make a building that is fully involved in controlling the impact of the city of Nantes.

Sustainable development approach of the project owner

Triple certification Iso 9001, Iso 14001, OHSAS 18001

Architectural description

The building is very compact, with office floors up to 23 m deep. Slightly shifted its orientation from north-south axis allows each façade lighting even briefly, depending on the time and season. Although compact and a refined architecture, the building is remarkably well integrated into the urban fabric as its varied épannelage lets light for the benefit of residents and pedestrians. Vertical windows and "full height" give local brightness pleasant, and the large thickness of clear tables diffuse light without glare. Blinds and white wide blades act as light shelves.

Building users opinion

The energy performance of the building brings new constraints sometimes destabilizing (you can not adjust the heat as we would wish, but the instructions are adjustable strictly regulated).

In addition, the local light and very comfortable giving a feeling of luxury not ostentatious, which is certainly not for anything in the speed with which the lots were sold.

See more details about this project

<http://www.quille-construction.fr/Nos-realisations/Immeuble+de+bureaux+et+commerces+Skyline+-+Nantes.html>

Stakeholders

Stakeholders

Function : Contractor

CIRMAD

Mme. LORRE

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

Function : Construction Manager

Ateliers 234

M. ARENE

<http://www.a234.fr/faubourg/>

Function : Construction company

Quille Construction

M. LINEATTE

<http://www.quille-construction.fr/>

Function : Certification company

CERTIVEA

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

Energy

Energy consumption

Primary energy need : 59,00 kWh/m².an

Primary energy need for standard building : 150,00 kWh/m².an

Calculation method : RT 2005

Breakdown for energy consumption : EP in kWh / m² / year: Heating: 16 Cooling: 11 Lighting: 21 Ventilation - Aux. : 12

More information

In reality, the building does not require refresh most of the time.

Renewables & systems

Systems

Heating system :

- Urban network
- Others

Hot water system :

- Individual electric boiler

Cooling system :

- Water chiller
- Others

Ventilation system :

- Nocturnal Over ventilation
- Free-cooling
- Double flow heat exchanger

Environment

Urban environment

5 minutes walk from the station and the tram with a PDE launched two years before moving in, Skyline avoid even more CO² emissions more through its smooth travel than with its BBC performance.

Products

Product

Lighting control by presence detection and ambient light dimming.

BEG

Product category :

Lighting is dimensioned to 300lux, and sensors continuously adjust the artificial light to this point, and taking into account the ambient daylight.

Solution that offers comfort, variations in light intensity are insensitive for high energy performance.



Health and comfort

Indoor Air quality

Finishing Products labeled. IAQ measurements made before delivery and after installation of the occupants. Pollutant levels well below regulatory limits. (70 g/m³ for TVOC eg after furnishing and partitioning).

Carbon

GHG emissions

GHG in use : 8,00 KgCO₂/m²/an

Methodology used :

RT regulatory calculation

Life Cycle Analysis

Eco-design material : Finishing materials labeled (öko Tex, European eco-labels, Güt ...)



Date Export : 20230519050203