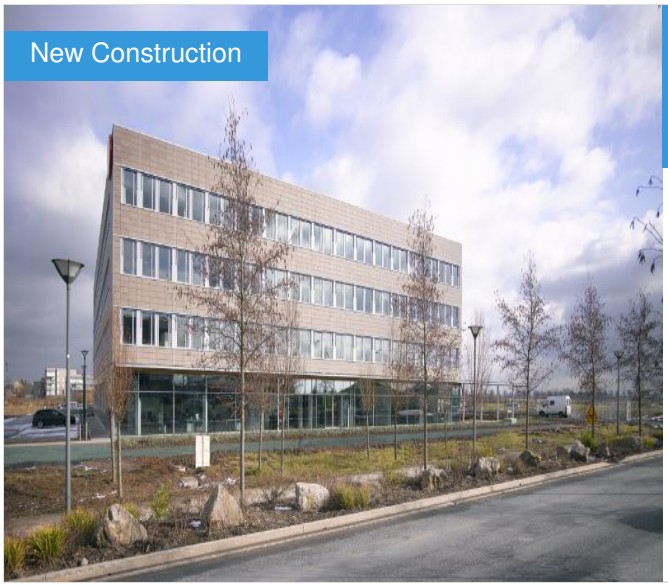
ERE PARK

by Alexandre GARCIN / 2012-03-30 17:25:04 / France / 7777 / FR



Primary energy need :

45 kWhep/m².an

(Calculation method : RT 2005)

ENERGY CONSUMPTION

Economical building

Building

< 50	A	A
51 à 90	B	
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 : 2010
Delivery year : 2010
Address 1 - street : 1, Avenue de l'horizon 59650 VILLENEUVE D'ASCQ, France
Climate zone : [Cfc] Marine Cool Winter & summer- Mild with no dry season.

Net Floor Area : 6 000 m² NGF (de)
Construction/refurbishment cost : 9 000 000 €
Cost/m2 : 1500 €/m²

General information

Low energy office building

Sustainable development approach of the project owner

Ere Park responds to a desire to be leader in the development of new generation of building

Architectural description

Materials choice has been performed following the comparative protocol provided by Ecobau, focusing on materials for healthy indoor environment and materials with low embodied energy for assessment of exterior materials.

Building users opinion

Occupants welcome the workspace for calm (soundscape between 25 and 30dB for an open space!), The brightness of workstations and thermal comfort.

If you had to do it again?

We would adopt the same design process even further by pushing certain choices based on technical advances that have made products on the market for 3 years.

See more details about this project

http://www.erepark.com/

Stakeholders

Stakeholders

Function : Contractor

CIRMAD

Elodie HUET

http://www.norpac.fr/index.php?id=78

Contracting method

Off-plan

Energy

Energy consumption

Primary energy need : 45,00 kWhep/m^2.an

Primary energy need for standard building : 100,00 kWhep/m^2.an

Calculation method : RT 2005

Real final energy consumption

Final Energy : 17,00 kWhef/m^2.an

Envelope performance

Envelope U-Value : 0,62 W.m^{-2}.K^{-1}

Indicator : I4

Air Tightness Value : 1,00

Renewables & systems

Systems

Heating system :

- Geothermal heat pump
- Radiant ceiling

Hot water system :

- Other hot water system

Cooling system :

- Others
- Radiant ceiling

Ventilation system :

- Double flow heat exchanger

Renewable systems :

- Solar photovoltaic
- Heat Pump on geothermal probes

Environment

Urban environment

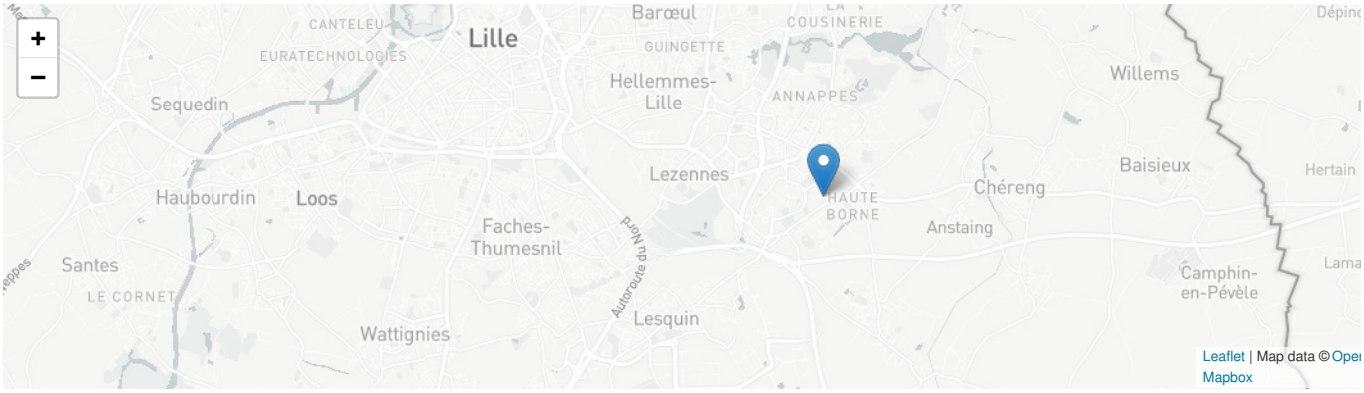
Tertiary center: 18 400 m2 of offices, 6,800 m2 of green space, 250 trees on the site. The center "la Cité Haute-Borne" contributes to improve the lives of park employees. With a total area of 3500 m2, this 2-storey building proposes restaurants, local services (banking, dry cleaning, newspapers, hairdresser ...), a 30 cradles nursery and concierge services.

Carbon

GHG emissions

GHG in use : 1,98 $KgCO_2/m^2/an$

GHG before use : 135,00 $KgCO_2 /m^2$



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