



Air Lorraine (head office)

by Sylvie FEUGA / © 2013-05-22 10:38:11 / France / © 5969 / FR

Primary energy need :

70 kWhep/m².an

(Calculation method : RT 2005)

ENERGY CONSUMPTION

Consumption Range (kWh/m ² .an)	Grade	Building Grade
< 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	

Economical building (Grades A-C) | *Energy-intensive building* (Grades D-G)

Building Type : Office building < 28m
Construction Year : 2009
Delivery year : 2009
Address 1 - street : 20 allée de Longchamp 54600 VILLERS-LES-NANCY, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 416 m² SHON
Construction/refurbishment cost : 1 205 000 €
Number of Work station : 20 Work station
Cost/m² : 2896.63 €/m²

Proposed by :



General information

Air Lorraine is an approved association monitoring air quality in Lorraine. The objectives of this project were to build a new headquarters for best performance, a combination of different poles and a better reception for the public while engaging in a process of sustainable development based on transferable constructive solutions based on the desire to raise awareness and educate potential visitors to meet current environmental challenges. The building includes offices, meeting rooms and laboratories on one level.

Sustainable development approach of the project owner

Project Objectives: To reach the BBC level (winner of PREBAT (Programme for Research in Low energy Buildings) and follow a comprehensive approach to environmental quality. Originality: mud brick interior wall, measuring the quality of indoor air, circular building, glass double-skin, cellulose wadding and wood cap / water, photovoltaic, rainwater recycling, natural lighting sheds, low emissive VOC indoor furniture.

Architectural description

Circular structure snail shape.

Building users opinion

More info via the link

If you had to do it again?

More info via the link

See more details about this project

<http://www.lqe.fr/home/upload/fiches/FicheAirLorraineVillersDesREX.pdf>

Stakeholders

Stakeholders

Function : Contractor

Air Lorraine

SCHMITT Jean-Pierre

<http://www.atmolor.org>

Function : Assistance to the Contracting Authority

Solorem (Nancy)

Function : Designer

Klein & Baumann Architectes (Mulhouse)

Function : Construction Manager

Kelin & Baumann Architectes (Mulhouse)

Function : Assistance to the Contracting Authority

Cap Terre (AMO qualité environnementale)

Function : Other consultancy agency

Barthes (structure - 54)

Function : Thermal consultancy agency

Solares Bauen (+ fluides - Strasbourg)

Function : Other consultancy agency

Economie E3 (économie de la construction - Strasbourg)

Energy

Energy consumption

Primary energy need : 70,00 kWhep/m².an

Primary energy need for standard building : 145,00 kWhep/m².an

Calculation method : RT 2005

Breakdown for energy consumption : 8.5 kWhep/m².an for heating

14 for cooling

27.5 for lighting

15.5 for ventilation

4.5 Auxiliary

More information

More info via the link

Renewables & systems

Systems

Heating system :

- Geothermal heat pump

Ventilation system :

- Double flow heat exchanger

Renewable systems :

- Heat pump (geothermal)

Products

Product

Mud brick

Product category : Second œuvre / Cloisons, isolation

Material very appreciated by users especially for its management of hygrometry.



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