



Cité des Cheminots in Forbach

by Mathieu LAURENT / 2012-09-24 11:32:43 / France / 8056 / FR

Primary energy need :

63.4 kWhep/m².an

(Calculation method : RT 2005)

ENERGY CONSUMPTION

Economical building *Building*

< 50	A	
51 à 90	B	B
91 à 150	C	
151 à 230	D	
231 à 330	E	
331 à 450	F	
> 450	G	

Energy-intensive building

Building Type : Terraced Individual housing
Construction Year : 2010
Delivery year :
Address 1 - street : 7-13 Rue des Cheminots 57600 FORBACH, France
Climate zone : [Cfc] Marine Cool Winter & summer- Mild with no dry season.

Net Floor Area : 2 235 m² SHON
Construction/refurbishment cost : 3 420 900 €
Number of Dwelling : 23 Dwelling
Cost/m² : 1530.6 €/m²

Certifications :



General information

The residence is the result of the demolition of 40 rental apartments and social reconstruction of 23 terraced houses.

Sustainable development approach of the project owner

The operation is the first BBC residence performed by ICF North East and one of the first produced by the Group. ICF Group then decided that from 2011, all of its new construction would be certified BBC (Low consumption building label).

Architectural description

The program "Cité des cheminots" consists of 23 townhouses divided into three groups. The two main groups are oriented northeast / southwest. The third group is oriented northwest / southeast.

Stakeholders

Stakeholders

Function : Contractor

ICF Nord-Est

<http://www.icfhabitat.fr/nord-est/>

Function : Certification company

CERQUAL

<http://www.qualite-logement.org/accueil.html>

Type of market

Realization

Energy

Energy consumption

Primary energy need : 63,40 kWhep/m².an

Primary energy need for standard building : 161,30 kWhep/m².an

Calculation method : RT 2005

Real final energy consumption

Final Energy : 54,82 kWhef/m².an

Envelope performance

Envelope U-Value : 0,45 W.m⁻².K⁻¹

Indicator : I4

Air Tightness Value : 0,55

Renewables & systems

Systems

Heating system :

- Condensing gas boiler
- Water radiator

Hot water system :

- Solar Thermal

Cooling system :

- No cooling system

Ventilation system :

- Humidity sensitive Air Handling Unit (Hygro B)

Renewable systems :

- Solar Thermal

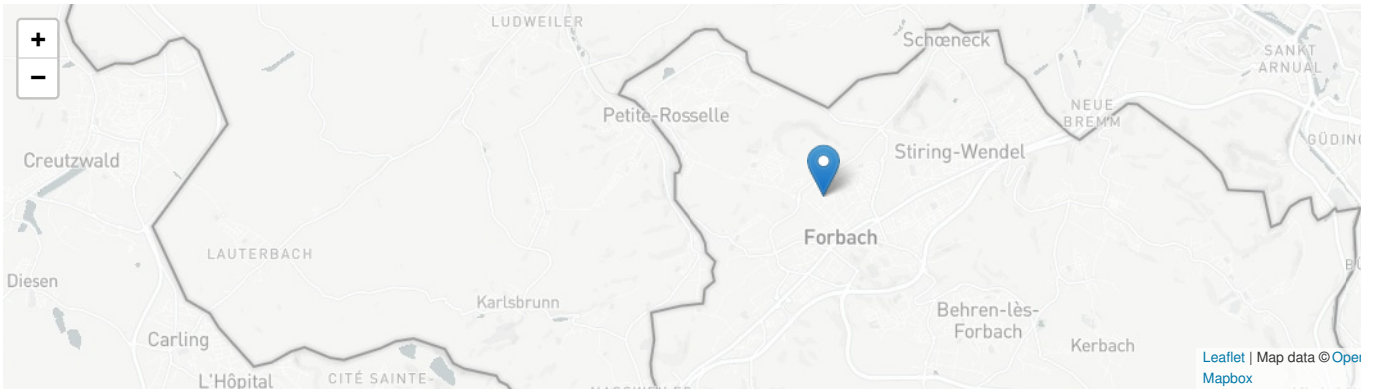
Renewable energy production : 22,50 %

GHG emissions

GHG in use : 15,81 KgCO₂/m²/an

Methodology used :

GHG emissions on 3 items: Heating, cooling and DHW



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