

## LOUISE 120

by Claire Lheureux / 2015-07-08 15:32:49 / Belgique / 11224 / FR



Renovation

Primary energy need :

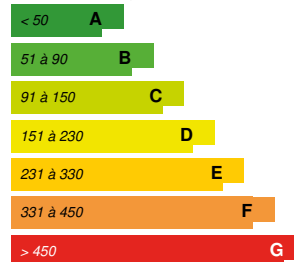
**58** kWhep/m<sup>2</sup>.an

(Calculation method : )

### ENERGY CONSUMPTION

Economical building

Building



B

Energy-intensive building

**Building Type** : Office building < 28m  
**Construction Year** : 2010  
**Delivery year** : 2012  
**Address 1 - street** : Avenue Lousie, 120 1050 IXELLES, Belgique  
**Climate zone** : [Cfb] Marine Mild Winter, warm summer, no dry season.

**Net Floor Area** : 2 948 m<sup>2</sup> SRE  
**Construction/refurbishment cost** : 3 080 000 €  
**Number of Work station** : 344 Work station  
**Cost/m2** : 1044.78 €/m<sup>2</sup>

Certifications :



Proposed by :



### General information

### Data reliability

3rd part certified

### Stakeholders

## Stakeholders

Function : Contractor

ARIUM

J. Claude-Bouilly ; Jclaud-bouilly@am-lux.com

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Function : Designer

A2M sc sprl

Sebastian Moreno Vacca ; moreno@a2m.be

<http://www.a2m.be>

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Function : Other consultancy agency

CES

F. Bayot ; fba@ces-web.be

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Function : Construction company

DEMOCO

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Function : Structures calculist

AUREA (AC)

V. Thimistere ; Valerie.thimister@aurea.be

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Function : Environmental consultancy

IMTECH

M. De Viron Huybrechts ; Maximilien.deviron@imtech.be

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Function : Designer

Moreno architecture

Ste. Moreno ; moreno@moreno.lu

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## Contracting method

Other methods

## Energy

### Energy consumption

Primary energy need : 58,00 kWhep/m<sup>2</sup>.an

Primary energy need for standard building : 250,00 kWhep/m<sup>2</sup>.an

Calculation method :

CEEB : 0.0001

Final Energy : 31,90 kWh<sub>ep</sub>/m<sup>2</sup>.an

Initial consumption : 350,00 kWh<sub>ep</sub>/m<sup>2</sup>.an

### Envelope performance

Envelope U-Value : 0,80 W.m<sup>-2</sup>.K<sup>-1</sup>

Building Compactness Coefficient : 4,84

Indicator :

Air Tightness Value : 0,60

## Renewables & systems

### Systems

#### Heating system :

- Condensing gas boiler

#### Hot water system :

- No domestic hot water system

#### Cooling system :

- Others
- VAV Syst. (Variable Air Volume system)

#### Ventilation system :

- Nocturnal Over ventilation
- Double flow heat exchanger

#### Renewable systems :

- No renewable energy systems

## Environment

### Urban environment

Land plot area : 841,20 m<sup>2</sup>

Built-up area : 100,00 %

## Products

### Product

GEA

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<http://www.gea.com>

Product category : Génie climatique, électricité / Ventilation, rafraîchissement



## Costs

### Construction and exploitation costs

Total cost of the building : 3 080 000 €

## Health and comfort

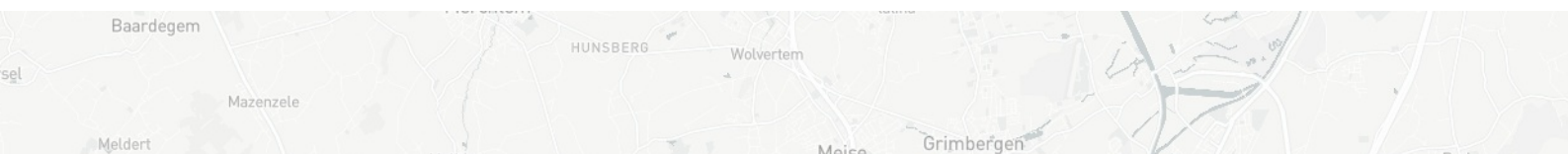
### Comfort

Calculated thermal comfort : Nombre d'heures maximum au dessus de 25°C --> 80 heures

## Carbon

### GHG emissions

GHG in use : 15,64 KgCO<sub>2</sub>/m<sup>2</sup>/an



## Building candidate in the category

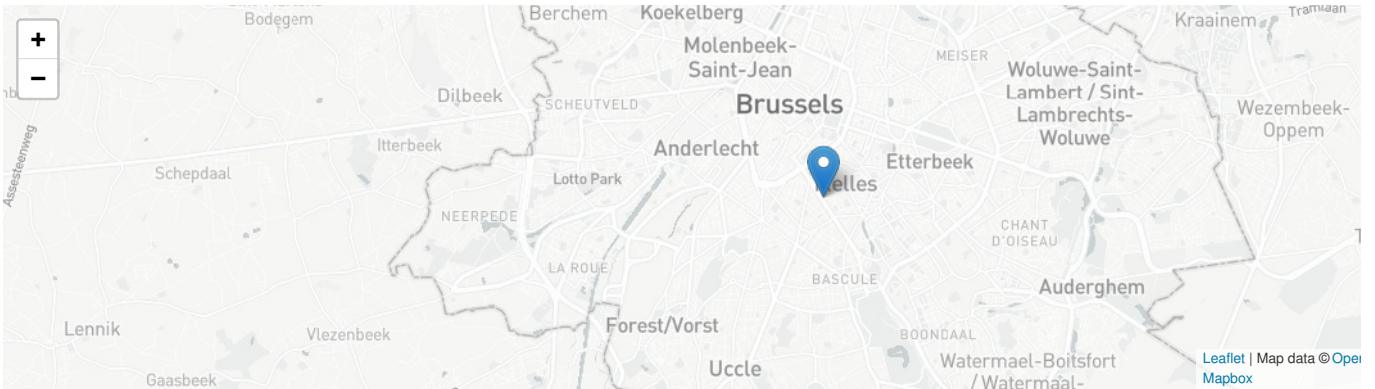


Rénovation énergétique



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