

LOUISE 120

by Claire Lheureux / 2015-07-08 15:32:49 / Belgique / 11236 / FR



Renovation

Primary energy need :

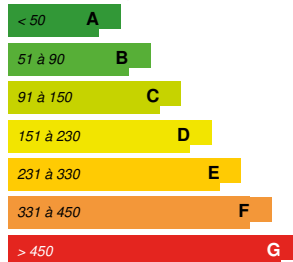
58 kWhep/m².an

(Calculation method :)

ENERGY CONSUMPTION

Economical building

Building



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 m² Other
Construction/refurbishment cost : 3 080 000 €
Number of Work station : 344 Work station
Cost/m2 : 1044.78 €/m²

Certifications :



Proposed by :



General information

Data reliability

3rd part certified

Stakeholders

Stakeholders

Function : Contractor

ARIUM

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

Function : Designer

A2M sc sprl

Sebastian Moreno Vacca ; moreno@a2m.be

<http://www.a2m.be>

Function : Other consultancy agency

CES

F. Bayot ; fba@ces-web.be

Function : Construction company

DEMOCO

Function : Structures calculist

AUREA (AC)

V. Thimistere ; Valerie.thimister@aurea.be

Function : Environmental consultancy

IMTECH

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

Function : Designer

Moreno architecture

Ste. Moreno ; moreno@moreno.lu

Contracting method

Other methods

Energy

Energy consumption

Primary energy need : 58,00 kWh_{ep}/m².an

Primary energy need for standard building : 250,00 kWh_{ep}/m².an

Calculation method :

CEEB : 0.0001

Final Energy : 31,90 kWh_{ef}/m².an

Initial consumption : 350,00 kWh_{ep}/m².an

Envelope performance

Envelope U-Value : 0,80 W.m⁻².K⁻¹

Building Compactness Coefficient : 4,84

Indicator : n50

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 m²

Built-up area : 100,00 %

Products

Product

GEA

-

<http://www.gea.com>

Product category : Table 'c21_italy.innov_category' doesn't exist SELECT one.innov_category AS current,two.innov_category AS parentFROM innov_category AS oneINNER JOIN innov_category AS two ON one.parent_id = two.idWHERE one.state=1AND one.id = '19'



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

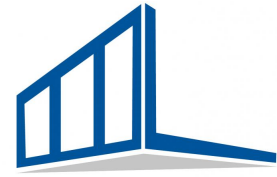
GHG emissions

GHG in use : 15,64 KgCO₂/m²/an

Building candidate in the category



Rénovation énergétique



Green Building Solutions Awards 2015

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