Vestiaire des Papillons

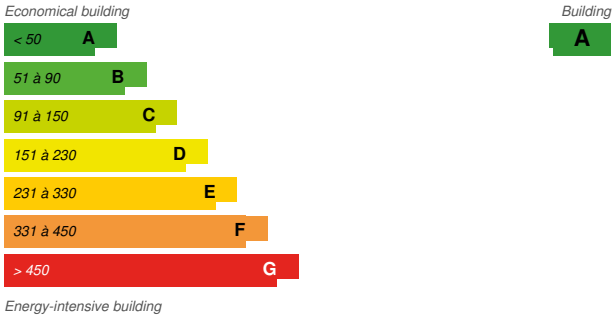
by philippe-henri bertin / 2015-06-09 11:34:50 / Belgique / 9932 / FR

Primary energy need :

86 kWhep/m².an

(Calculation method : Other)

ENERGY CONSUMPTION



Building Type : Nursing home or Retirement home
Construction Year : 2014
Delivery year : 2014
Address 1 - street : 1420 BRAINE L'ALLEUD, Belgique
Climate zone : [Cfc] Marine Cool Winter & summer- Mild with no dry season.

Net Floor Area : 592 m²
Construction/refurbishment cost : 1 350 000 €
Cost/m2 : 2280.41 €/m²

Certifications :

Proposed by :

General information

See more details about this project

http://www.eternit-photos.be/realisaties_dak/Alterna/BrainelAlleud1114_Alterna/

Data reliability

3rd part certified

Stakeholders

Stakeholders

Function : Contractor

Chrysalis a.s.b.l.

Edith Allaert , larbresoleil@hotmail.com

Function : Designer

Archipel Atelier d'Archtecture

Philippe Henri Bertin

http://www.archipel-architecture.be

Function : Thermal consultancy agency

Responsible Young Architects sciv sprl

Benoit Vanden Breede

http://www.rya.be

Contracting method

General Contractor

Energy

Energy consumption

Primary energy need : 86,00 kWhep/m^2.an

Primary energy need for standard building : 165,00 kWhep/m^2.an

Calculation method : Other

CEEB : 0.0001

Final Energy : 80,30 kWhef/m^2.an

Envelope performance

Envelope U-Value : 0,17 $W.m^{-2}.K^{-1}$

Building Compactness Coefficient : 1,76

Indicator : EN 13829 - n50 » (en 1/h-1)

Air Tightness Value : 0,25

Renewables & systems

Systems

Heating system :

- Geothermal heat pump
- Low temperature floor heating
- Canadian well

Hot water system :

- Heat pump
- Solar Thermal

Cooling system :

- Radiant ceiling
- Canadian well

Ventilation system :

- Nocturnal ventilation
- Free-cooling

- Double flow

Renewable systems :
- Solar photovoltaic
- Solar Thermal
- Heat Pump on geothermal probes

Renewable energy production : 76,00 %

Environment

Urban environment

Land plot area : 9 130,00 m^2

Built-up area : 330,00 %

Green space : 5 350,00

Products

Product

Buderus

Saverio Giordano sg@buderus.be

http://www.buderus.be

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 = '18'

AGC

bhadresh.parbhoo@eu.agc.com

http://www.agc-glass.eu/

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 = '10'

Costs

Construction and exploitation costs

Renewable energy systems cost : 90 000,00 €

Cost of studies : 40 000 €

Total cost of the building : 1 350 000 €

Subsidies : 18 000 €

Contest

Building candidate in the category

Energies renouvelables

Green Building Solutions Awards 2015
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Bâtiment zéro énergie

Date Export : 20230329005320