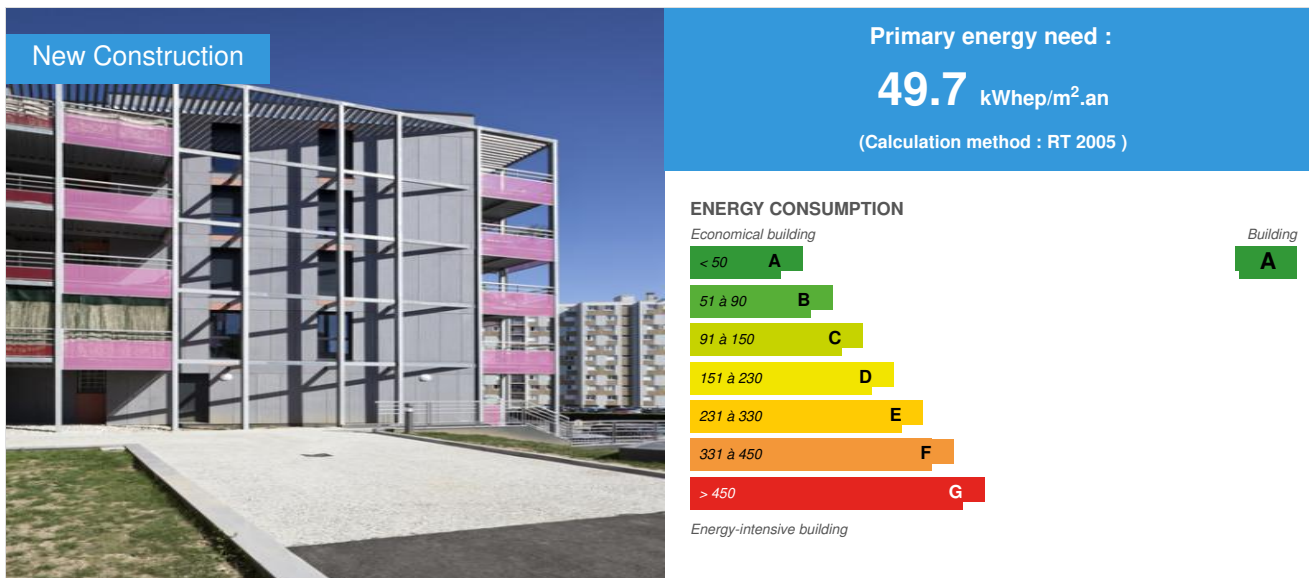


Clair de Terre, Decines-Charpieu

by Mathieu LAURENT / 2012-12-13 17:41:08 / France / 6957 / FR



Building Type : Collective housing > 50m
Construction Year : 2010
Delivery year :
Address 1 - street : 325, avenue Jean Jaurès 69150 DECINES-CHARPIEU, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 2 910 m² SHON
Construction/refurbishment cost : 5 477 427 €
Cost/m² : 1882.28 €/m²

Certifications :



General information

Located in Decines-Charpieu, a town of 25,000 people in the outer suburbs of Lyon, the operation Clair de Terre is a residential housing, including architecture thoughtful answers to several constraints and achieves a high level of environmental performance. This property smooth, quiet and functional, is inserted into the neighborhood environment.

Sustainable development approach of the project owner

Habitat & Environment certification and Effinergie BBC label.

Architectural description

The residence is constituted of two buildings whose colors evolve from white to dark gray case. They are linked by the central area, formed through a transparent hall in the ground floor. This hall then distributes systems two stair cages and vertical and horizontal circulation. The common areas are naturally lit. In an optical

bioclimatic think the project was to take advantage of the favorable orientation of the plot, by developing the most south facades.

Stakeholders

Stakeholders

Function : Contractor

Opac du Grand Lyon

<http://www.grandlyonhabitat.fr/>

Function : Construction Manager

Atelier Arche

Function : Certification company

CERQUAL

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

Type of market

Global performance contract

Energy

Energy consumption

Primary energy need : 49,70 kWh_{ep}/m².an

Primary energy need for standard building : 91,60 kWh_{ep}/m².an

Calculation method : RT 2005

Breakdown for energy consumption : Heating: EP 10.2 kWh / m² /year. Annually - ECS: EP 17 kWh / m² /year. Annually with 45% solar coverage - Auxiliary: 15.2 kWh EP / m² /year. Annually, Lighting: 7.34 kWhEP / m² /year

Real final energy consumption

Final Energy : 35,86 kWh_{ef}/m².an

Envelope performance

Envelope U-Value : 0,32 W.m⁻².K⁻¹

Indicator : I4

Air Tightness Value : 0,60

Renewables & systems

Systems

Heating system :

- Condensing gas boiler

Renewable energy production : 28,60 %

Environment

Urban environment

Located in Décines-Charpieu, Rhone, a town of 25,000 inhabitants of the second ring of the Lyon agglomeration. The goal is to regain the second crown has lost many people these last 15 years.

Carbon

GHG emissions

GHG in use : 6,36 KgCO₂/m²/an

Methodology used :

Calculation based on Heating and Cooling ECS



Date Export : 20230403205435