



## Housing Gran Vía Jaume I

by Esther Pereira Garcia / 2016-07-08 15:09:06 / Espagne / 13438 / ES

Renovation



Primary energy need :  
**15.2** kWhpe/m<sup>2</sup>.year  
(Calculation method : )

**ENERGY CONSUMPTION**

Economical building

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

Energy-intensive building

Building **A**

**Building Type** : Collective housing > 50m  
**Construction Year** : 2016  
**Delivery year** : 2016  
**Address 1 - street** : Gran Vía Jaume I, 67 17002 GIRONA, España  
**Climate zone** : [Csa] Interior Mediterranean - Mild with dry, hot summer.

**Net Floor Area** : 532 m<sup>2</sup>  
**Construction/refurbishment cost** : 566 500 €  
**Number of Dwelling** : 4 Dwelling  
**Cost/m<sup>2</sup>** : 1064.85 €/m<sup>2</sup>

Proposed by :



### General information

Urban building rehabilitated with energy certification A, made according to the model of sustainable construction Eco8 and created with collaboration of end users of housing. A shared, sustainable, efficient and fully customized project, designed to improve the environment and happiness of users.

[See more details about this project](#)

<http://www.eco8nstruccio.cat/index.php/projectes-eco8/item/15-projecte-1>

### Data reliability

Self-declared

### Stakeholders

Function : Developer

INCOVI

Josep Maria Coll

<http://incovi.com/?&lang=es>

Promoter, responsible for the whole process of the work (architecture and construction).

Function : Certification company

Associació Catalana de Construcció Sostenible

Esther Pereira Garcia

<http://www.eco8nstruccio.cat/>

Certification under the model of sustainable construction Eco8

### Contracting method

Other methods

### Owner approach of sustainability

It aims to provide sustainable housing that promotes health and well-being of users, that are also environmentally friendly.

### Architectural description

The architecture is based on an eminently energetic rehabilitation but also deals with general aspects of sustainability: water management, responsible materials, innovation, best practices in construction, local promotion, respect for the environment and health of people. The great input from this promotion has been the adaptability of housing and the involvement of end users in the process of design and construction of housing. The result: customized, healthy and sustainable housing.

## Energy

### Energy consumption

Primary energy need : 15,20 kWhpe/m<sup>2</sup>.year

Primary energy need for standard building : 60,00 kWhpe/m<sup>2</sup>.year

Calculation method :

CEEB : 0.0001

Initial consumption : 45,30 kWhpe/m<sup>2</sup>.year

### Envelope performance

Envelope U-Value : 0,28 W.m<sup>-2</sup>.K<sup>-1</sup>

More information :

The building consists of different types of enclosure, adapting to the existing initial composition: - Main Facade: 0.28 - Interior courtyard: 0.38 - Penthouse: 0.15 (made with wood panels with internal insulation)

## Renewables & systems

### Systems

Heating system :

- Heat pump
- Solar thermal

Hot water system :

- Heat pump
- Solar Thermal

Cooling system :

- Reversible heat pump

Ventilation system :

- Natural ventilation

Renewable systems :

- Solar Thermal

## Environment

### GHG emissions

GHG in use : 2,60 KgCO<sub>2</sub>/m<sup>2</sup>/year

Methodology used :

Spanish Royal Decree: 47/2007

## Products

### Product

MINERAL WOOL ARENA BASIC

ISOVER

ISOVER

<https://www.isover.es/>

Product category :

Mineral wool with Environmental Product Declaration.

A type isolation is sought with some environmental input.



Ecological interior paint

MATERIS PAINTS ESPAÑA

MATERIS PAINTS ESPAÑA

<http://www.materis-paints.com/>

Product category :

green paint, with Ecolabel certified.

Direct purchase.



PARQUET HELVETMAR

HELVETMAR

HELVETMAR

<http://www.marti1956.com>

Product category :

Parquet made with FSC certified wood, low CO<sub>2</sub> emissions.

OK.



## Costs

## Urban environment

The building is located on Gran Via Jaume I, Girona. A downtown area, near the Barri Vell, an area of great interest. Thanks to this privileged location, the building has many nearby services (public transport within 100 m, the market Lleó, shopping malls, gym, bank, school, the University of Girona, the headquarters of the Generalitat de Catalunya Girona, etc.). And all of them less than 800 meters from the building. In addition, users have at their fingertips, various public spaces such as the Plaça de la Constitució or Plaça del Lleó.

## Parking spaces

The building has no parking for cars. To this end, there is public parking very close (within 200 m). To promote sustainable transport, the building has reserved a space in the basement to store bicycles users and visitors.

## Building Environmental Quality

### Building Environmental Quality

- Building flexibility
- indoor air quality and health
- works (including waste management)
- consultation - cooperation
- acoustics
- comfort (visual, olfactive, thermal)
- energy efficiency
- renewable energies
- integration in the land
- mobility
- building process
- products and materials

## Contest

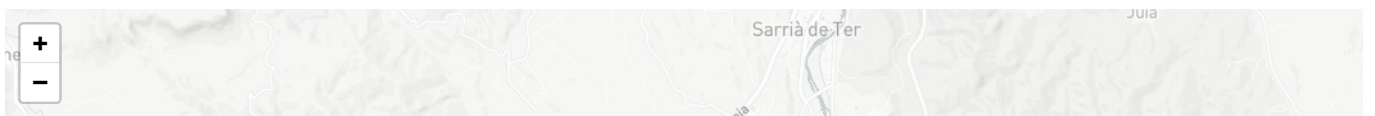
### Building candidate in the category



Energía y Climas Templados



Premio de los usuarios





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