


## Zenale Building

by Filippo Taidelli Architetto / 2017-05-31 15:49:51 / Italia / 8495 / IT

**Renovation**



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

**ENERGY CONSUMPTION**

Consumption Range (kWhpe/m <sup>2</sup> .anno)	Energy Class	Building Position
< 50	A	Economical building
51 à 90	B	
91 à 150	C	Building (C)
151 à 230	D	
231 à 330	E	
331 à 450	F	
> 450	G	Energy-intensive building

**Building Type :** Collective housing < 50m  
**Construction Year :** 2012  
**Delivery year :** 2012  
**Address 1 - street :** 20123 MILANO, Italia  
**Climate zone :** [Cfb] Marine Mild Winter, warm summer, no dry season.

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**Net Floor Area :** 3 000 m<sup>2</sup> Other  
**Construction/refurbishment cost :** 4 000 000 €  
**Cost/m2 :** 1333.33 €/m<sup>2</sup>

Proposed by :



### General information

The intervention involves the complete renovation of a 1901 building in the historic center of Milan. The building that has a "L" shape and overlooks an inner courtyard, spreads over five floors and houses flats, laboratories and new shops on the ground floor. On the outside as well as for the restoration of the existing façades, a new prospect faces the neighboring garden. At the center of this front is created a full-height recess that accommodates the loggia and creates the feeling of being faced with two distinct factory buildings: a brick tower with views of the park's openings and a classic facade that goes on camouflaging the street front. The formal result obtained allows the building to integrate harmoniously with architectural preexistence. The loggias, which are born in the new cavity, are characterized by a steel parapet arranged for the placement of plants and flowers; On the top floor instead a terrace is created that highlights the gap between the two volumes. The intervention on the inner court is aimed at ensuring visual continuity between the road and the inner park thanks to the large glazed openings that bring air and natural light even in the underground spaces of the building. In the building a new enclosure insulation and modern plant solutions such as a water heat pump and radiant floors have been set up to provide maximum thermal comfort for users with minimal energy consumption.

Credits:

- CUSTOMER

Real Estate Zenale S.r.l

- DESIGN AND DL

- Arch. Filippo Taidelli
  - PARTNER
- Arch. Piero Castellini
  - GENERAL CONTRACTOR
- Coima Project S.r.l.
  - WOODEN WORKS
- Ori & Bonetti
  - INSTALLATIONS
- Manens Intertecnica
  - GEOTHERMAL
- Ing. Stefano Sesana
  - STRUCTURES

Enco Engineering ConsultingcalculationsStudio Three

- SAFETY

Arch. Carmine Concas

- PHOTOGRAPHER

Andrea Martiradonna

- COLLABORATORS

Marta Brambilla, Josè Bove, Elisa Castelli, Roberto Leva, Francesco Nava, Franco Bucci, Claudia Brunelli, Vincenzo Cuzzo, Luigi Martinelli

## Data reliability

Self-declared

## Stakeholders

### Stakeholders

**Function :** Contractor

Immobiliare Zenale S.r.L.

Corso Vittorio Emanuele 9 - 20122 Milano

**Function :** Designer

Filippo Taidelli Architetto - FTA

Filippo Taidelli - Via Ascanio Sforza 81/A - 20144 Milano

<http://www.filippotaidelli.com/>

**Function :** Company

Coima S.r.L.

via Fatebenefratelli 9 - 20121 Milano

<http://www.coima.it>

**Function :** Company

Ori & Bonetti

via Oglio 4 - 26030 Cicognolo (Cremona)

<http://www.oribonetti.it/default.htm>

**Function :** Thermal consultancy agency

Manens Intertecnica S.r.L.

Via Campofiore 21 - 37129 Verona

**Function :** Structures calculist

Enco Engineering Consulting S.r.L.

Via Carlo Urbino 52 - 26013 Crema (CR)

Function : Others

Studio Dott. Geol. Stefano Sesana

S.S.dei Giovi 22 - 22070 Vertemate con Minoprio (CO)

## Contracting method

General Contractor

## Energy

## Renewables & systems

### Systems

Heating system :

- Geothermal heat pump
- Low temperature floor heating

Hot water system :

- Condensing gas boiler
- Heat pump

Cooling system :

- Geothermal heat pump

Ventilation system :

- humidity sensitive Air Handling Unit (hygro A)

Renewable systems :

- Heat pump (geothermal)

## Costs

### Construction and exploitation costs

Cost of studies : 4 000 000 €

### Land plot area

Land plot area : 630,00 m<sup>2</sup>

### Built-up area

Built-up area : 74,00 %

## Building Environmental Quality

### Building Environmental Quality

- energy efficiency

## Contest

## Building candidate in the category



Energia e Climi Temperati



Utenti Preferito



Date Export : 20230314094708