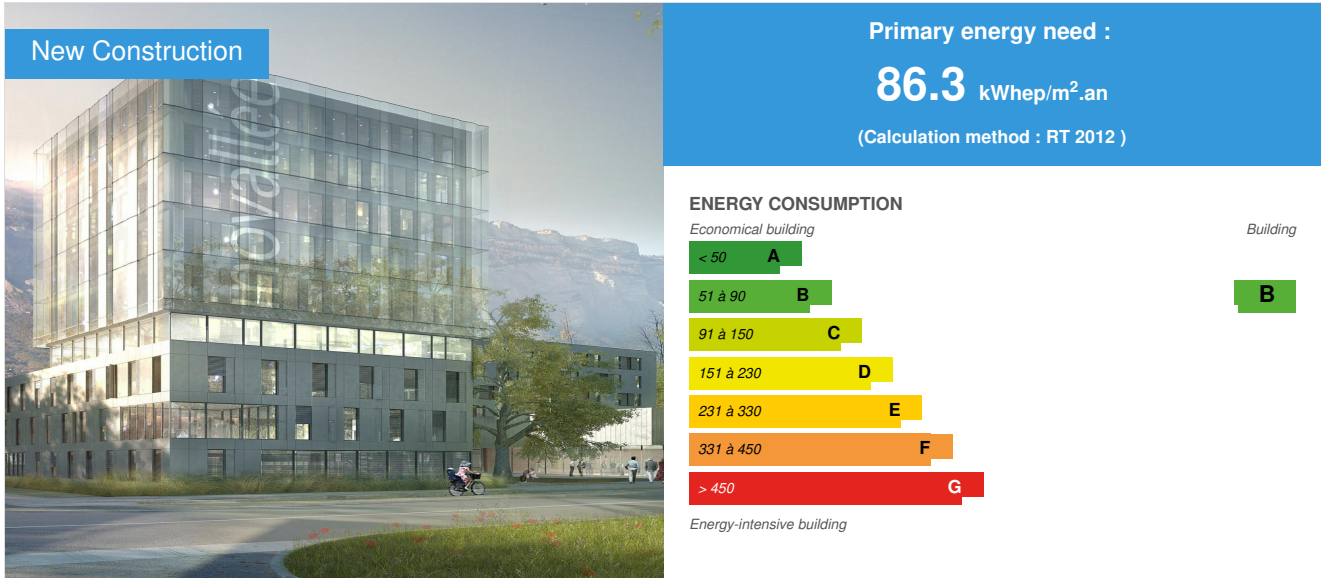


## Inovalia

by Nathalie MEHU / 2017-05-19 11:07:16 / France / 7969 / FR



**Building Type** : Office building < 28m  
**Construction Year** : 2015  
**Delivery year** : 2015  
**Address 1 - street** : 16 chemin de Malacher 38240 MEYLAN, France  
**Climate zone** : [Cfb] Marine Mild Winter, warm summer, no dry season.

**Net Floor Area** : 5 976 m<sup>2</sup>  
**Construction/refurbishment cost** : 9 887 823 €  
**Cost/m<sup>2</sup>** : 1654.59 €/m<sup>2</sup>

### General information

Urban development project of more than 13,000 m<sup>2</sup> of offices divided into 4 tranches.  
 The first phase consists of two buildings on three levels, which have a built floor area of 2,700 m<sup>2</sup> for building A and 3,000 m<sup>2</sup> for building B. This operation is a property development ADIM Lyon, a subsidiary of VINCI Construction France .

### Sustainable development approach of the project owner

"At VINCI, we believe that there is no economic success without a human project. This is rooted in our culture. We are also convinced that our social, societal and environmental performance is an asset for our development, as it is an increasing expectation of our clients and international investors. That is why we published our Manifesto in 2012, in which we make eight intangible and universal commitments. It is a common framework that all VINCI entities must appropriate according to their businesses and markets. I personally oversee the mobilization of all Group managers. " Xavier Huillard Commitment N ° 3 - Together for Green Growth!  
 We participate in the prospective reflection on the city and sustainable mobility. Our innovations, resulting from eco-design, enable us to improve the energy and environmental performance of our infrastructures. We are committed to reducing our greenhouse gas emissions by 30% by 2020, supporting our customers in their search for better energy efficiency and encouraging them to adopt eco-responsible behavior. Each project is imagined by ensuring its integration into its environment, as well as the quality of the living environment it offers. VINCI Construction France created Blue Fabric, its vision to build responsibly, and thus meet the four challenges of the sustainable city. Competitiveness: to give the city seductive assets, by building buildings and equipment with high functionality, economically efficient, sustainable, accessible, affordable, with loads optimized. Creativity: to accompany the designers and their vision, by providing them with innovative solutions and proven techniques. Conviviality: reflect on the scale of the neighborhood and the diversity of its activities, mixing housing, offices, shops and attractive public spaces to promote the meeting. Consensus: working collaboratively and transparently with all project stakeholders - investors, customers,

architects, public authorities, network managers - but also local residents and associations.

## Architectural description

Urban development project of more than 13,000 m<sup>2</sup> of offices divided into 4 tranches. The first phase consists of two buildings on three levels with a built floor area of 2,700 m<sup>2</sup> for building A and 3,000 m<sup>2</sup> for building B. The bioclimatic architecture of buildings favors north / south exhibitions. The solar contributions sought in winter are mastered in summer by the protection of an alignment of oaks centenaries preserved by the project. The heat island effect is also controlled by the installation of green roofs in addition to the landscaped gardens.

## See more details about this project

<http://www.vinci-construction.fr/oxygen>

## Stakeholders

### Stakeholders

Function : Designer

Dumetier Design

agence@dumetier.fr

<http://www.dumetier-design.com/>

Function : Other consultancy agency

EODD

Guillaume PARIZOT

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

BE Environment / Fluids / Thermal

## Energy

### Energy consumption

Primary energy need : 86,30 kWh<sub>ep</sub>/m<sup>2</sup>.an

Primary energy need for standard building : 108,80 kWh<sub>ep</sub>/m<sup>2</sup>.an

Calculation method : RT 2012

## Renewables & systems

### Systems

Heating system :

- Heat pump
- Wood boiler

Hot water system :

- Other hot water system

Cooling system :

- Reversible heat pump

Ventilation system :

- Double flow

Renewable systems :

- Heat pump

## Environment

## Urban environment

Inovallia is located in the heart of inovallée. Inovallée is served by the interchanges 25 and 26 of the highway A41, as well as by the interchange with the southern ring road that serves the university area of Grenoble. As for public transport, inovallée is served by the bus lines C1 and 6070 of the transports of the agglomeration of Grenoble and by the G2 line of the TouGo bus network.

## Products

### Product

Active Panel

REHAU

Place Cisse 57340 Morhange France, france@rehau.com

<http://www.rehau.fr>

Product category : HVAC, électricité / heating, hot water

The principle of the active slab is based on the use of the mass of concrete structures buildings. Thanks to the active slab, the concrete mass of the building is used as Reservoir of heat or freshness. It allows both to heat or to refresh with low temperature levels to reduce energy consumption.

The refrigeration plants and air conditioners can therefore be reduced  
Compared to a building without active slab.

In heating mode, the active slab can only be considered as a heating  
Base, a backup system is essential.



## Costs

## Contest

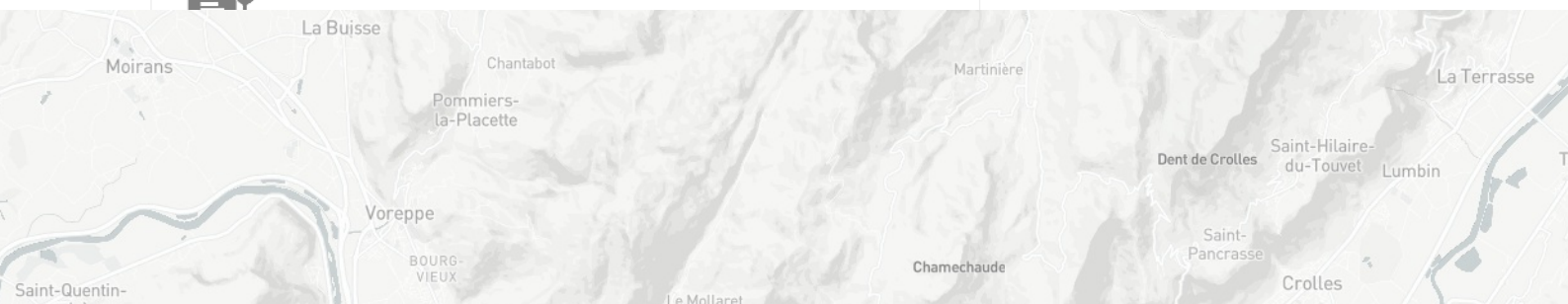
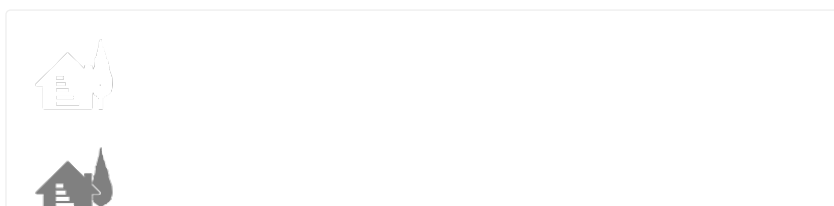
### Reasons for participating in the competition(s)

Cette réalisation nouvelle génération, atteint un niveau de performance énergétique bien au-delà des exigences de la réglementation thermique actuelle : RT 2012 -20%, tout en utilisant une énergie renouvelable pour la production de chaleur (chaufferie bois).

La qualité paysagère est au centre de la composition urbaine pour offrir aux utilisateurs des espaces d'agréments paysagers (jardins zen, dorsale végétale, mail piéton) et des vues privilégiées sur l'environnement (Massifs de la Chartreuse et de Belledonne). De plus, l'installation de toitures végétalisées en plus des jardins paysagers permet une maîtrise de l'effet îlot de chaleur.

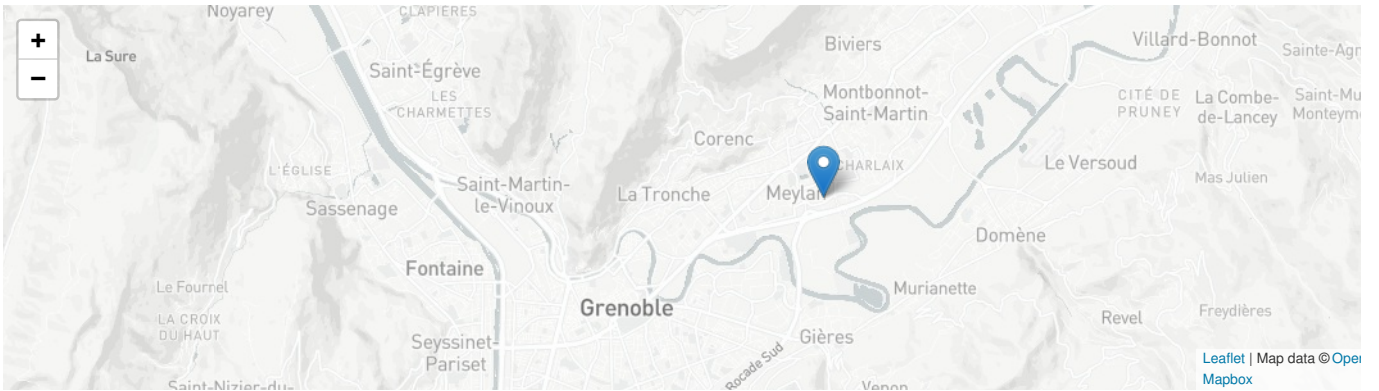
Le projet INOVALLIA propose une conception innovante favorisant des systèmes énergétiques performants : une forte inertie de la structure en béton armé associé à une bonne enveloppe, une distribution par dalle active, une ventilation double flux sur ventilation nocturne pour le confort d'été, etc. Une garantie de performance énergétique fait partie intégrante de la conception de cette opération. Des nombreux points d'étage de commissionnement ont pu être déployés depuis la conception du bâtiment jusqu'à 2 ans après sa livraison. Les consommations d'énergie su bâtiment sont vérifiées et garanties.

### Building candidate in the category





Coup de Cœur des Internautes



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