


Javelin

by [minh man nguyen](#) / 2022-04-11 00:00:00 / France / 1769 / FR



Renovation

Primary energy need :

80 kWhep/m².an

(Calculation method : RT 2012)

ENERGY CONSUMPTION

Economical building *Building*

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

Energy-intensive building

Building Type : Other building
Construction Year : 1977
Delivery year : 2021
Address 1 - street : Rue du Javelot 75013 PARIS, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 400 m²
Construction/refurbishment cost : 688 000 €
Cost/m² : 1720 €/m²

General information

For this project to renovate a slab pagoda of the "Olympiades" and its transformation into a district management and Brico-theque, the circular economy and the reuse of physical and spatial resources were at the heart of our architectural approach.

First of all, the simple rehabilitation of old buildings by definition questions **the ability of existing structures and spaces to reinvent themselves in order to accommodate new uses**. This building, originally built by the architect Michel Holley, has been in turn a restaurant, a tea room, and today a bricothèque (collaborative manufacturing workshop), ERP and a room for diverse associations. Thanks to the support of the RIVP, the Javelin project has also made it possible to **put into practice the transitional programming of changing spaces, a real challenge for contemporary cities**. Indeed, in the summer interstice between the end of studies and the start of construction work, the pagoda has been transformed into an ephemeral cultural space by hosting the works of two painters and sculptors.

Finally, **the reuse of materials was at the center of architectural thinking from the first design phases**. This reuse is deployed on site along three lines:

1. Ex-situ reuse: a metal staircase was disassembled, packaged and reassembled on another site.
2. In-situ reuse: the existing glazing of the building has become interior glass partitions.
3. Out-sourced reuse: the cladding of the project is made with parquet slats from another site under deconstruction.

[See more details about this project](#)

<https://wao.paris/portfolio/tertiaire-projets/javelot/>

Photo credit

Christophe Demonfaucon

Stakeholders

Contractor

Name : Régie Immobilière de la Ville de Paris

Contact : Francois.Jerome.LeNoel[a]rivp.fr

<https://www.rivp.fr/>

Construction Manager

Name : WAO

Contact : Clément DUROSELLE, clement[a]wao.paris, 01 88 32 63 34

<https://wao.paris/>

Stakeholders

Function :

OTCI

Christophe LEPREUX

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

Structural, thermal and fluid design office

Function : Company

CARE BTP

Jonathan RENAUX

<https://www.care-btp.com/fr>

Group of companies in charge of the realization of all the lots

Function : Environmental consultancy

RISK CONROLE

Georges WEHBE

<https://risk-control.fr/>

Technical control office

Function : Environmental consultancy

QUALICONSULT

Dominique LAROCHE

<https://www.groupe-qualiconsult.fr/>

Safety and Health Protection Coordination

Function : Site manager

TELA 13

Muriel CLEREL

<http://www.tela13.org/>

Future users of the place

Contracting method

General Contractor

Type of market

Realization

Allocation of works contracts

Build and sell construction

Energy

Energy consumption

Primary energy need : 80,00 kWhep/m².an

Calculation method : RT 2012

Initial consumption : 200,00 kWhep/m².an

Renewables & systems

Systems

Heating system :

- Heat pump

Hot water system :

- Individual electric boiler

Cooling system :

- Reversible heat pump

Ventilation system :

- Single flow

Renewable systems :

- Heat pump

Environment

Urban environment

Land plot area : 7 981,00 m²

Built-up area : 2,40 %

The project is located in the Olympiades district, Paris 13th, built in the mid-1970s by architect Michel Holley. It represents a rare example in Paris of Dalle town planning, driven by modern thinking. The "rue du Javelot", which gives its name to the project, is in fact never visible, located under the project and disappears into the slab. The district is also very particular within the capital in terms of its architectural diversity and the many modernist achievements it presents.

Despite their historical quality, large housing estates are often decried, in particular by the omnipresence of concrete and the loss of the human scale. The "rue du Javelot" renovation project thus seeks to contrast with this mineral urban context through the use of a visible bio-sourced material and the detail of a non-standard slatted cladding.

Products

Product

WAO / CARE BTP

<https://www.care-btp.com/fr>

Product category : Structural work / Structure - Masonry - Facade

Costs

Circular Economy

Reuse : same function or different function

Batches concerned by reuse :

- o Facades
- o Locksmithing-Metalwork
- o Outdoor joineries
- o Partitions

For each batch : Reused Materials / Products / Equipments :

- o Facade insulating glass frames: 34 m²
- o Softwood flooring: 1088 mL
- o Curved steel roof frames: 7 units

Field of use and material origin :

- o Insulating glazed facade frames reused on site as interior glazed partitions,
- o Resinous wood parquet from a Parisian site transformed into facade cladding and filling of railings,
- o Curved steel roof frames suitable for integration of new insulating glazing.

Environmental assessment

Impacts avoided : water, waste, CO2 :

Catégories	CO2 évité (kg)	Consommation Eau évité (m3)	Déchets évités (kg)
Aménagements extérieurs	0	0	0
Aménagements extérieurs / Serrurerie - Métallerie	0	0	0
Charpente	0	0	0
Cloisons	2797.0272	713.486016	1884.6864
Couverture	219.5617727	1.050891808	6.14518773
Couverture / Aménagements extérieurs	0	0	0
Eclairages	0	0	0
Eclairages sécurité	0	0	0
Equipements de génie climatique	0	0	0
Equipements électriques	0	0	0
Façades	752.6488829	215.7665694	662.5653642
Faux plafonds	0	0	0
Faux planchers	0	0	0
Faux-plafonds	0	0	0
Gros-œuvre	0	0	0
Installations sanitaires	0	0	0
Isolation	0	0	0
Menuiserie ext	0	0	0
Menuiseries intérieures	0	0	0
Mobilier	0	0	0
Peinture	0	0	0
Plomberie	0	0	0
Revêtements de sols	0	0	0
Revêtements de sols ou muraux	0	0	0
Revêtements muraux	0	0	0
Sécurité du bâtiment	0	0	0
Serrurerie - métallerie	0	0	0
VRD	0	0	0
	CO2 évité (kg)	Consommation Eau évité (m3)	Déchets évités (kg)
TOTAL	3769.237856	930.3034772	2553.396952

The reuse operation saved the equivalent of 30,154 kilometers traveled by a small car, or 34 Paris-Nice, 6,202 rectangular bathtubs filled with water and 5 years of household waste for a Frenchman.

Economic assessment

Total cost of reuse : 98 216 €

Cost of reuse in percentage of the operation : 10 %

Saving realised thanks to the implementation of reused materials compared to new materials : -35 000 €

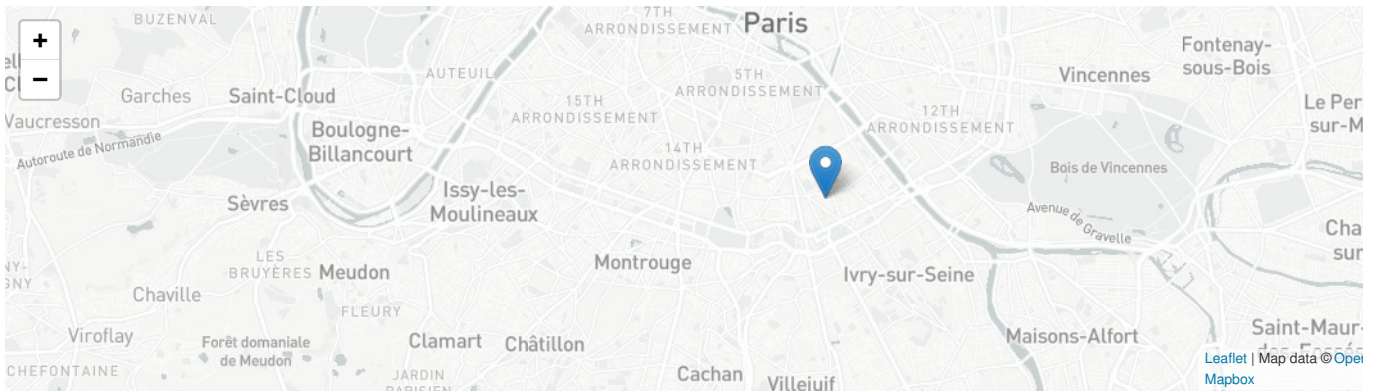
Reasons for participating in the competition(s)

- Rénovation d'un bâtiment historique grâce à l'utilisation de matériaux biosourcés et réemployés;
- L'économie circulaire et la réutilisation des ressources physiques et spatiales sont au cœur de la démarche architecturale ;
- Mise en pratique de la programmation transitoire des espaces en mutation ;
- Réemploi de matériaux sur toutes les phases, de la conception à la construction ;
- L'opération de réemploi a économisé une quantité importante d'émissions de CO2.

Building candidate in the category



Prix du public



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