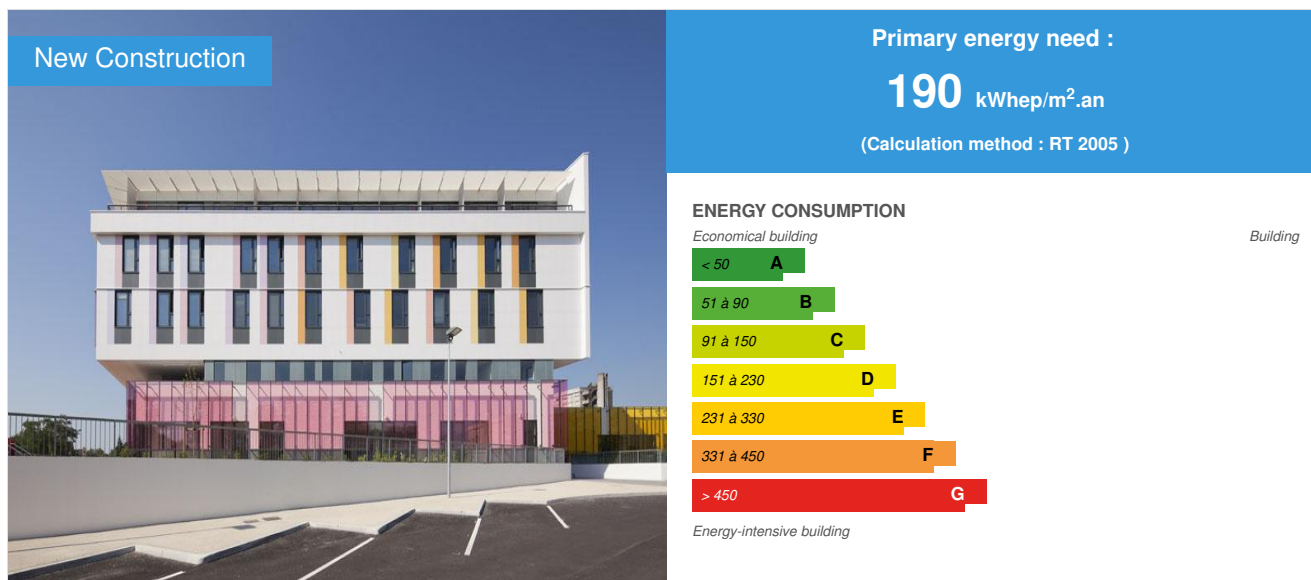


Pole SSR Hospital of New Orleans

by Caroline PAUL / 2014-02-27 10:59:30 / France / 10287 / FR



Building Type : Public or private hospital
Construction Year : 2013
Delivery year : 2013
Address 1 - street : 14, avenue de l'hôpital 45000 ORLÉANS, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 23 000 m² Autre type de surface nette
Construction/refurbishment cost : 37 300 000 €
Cost/m2 : 1621.74 €/m²

Certifications :



General information

Pole SRH 120 beds in the heart of New Orleans Hospital. Legibly mark with its identifiable marking the ellipse south of the city and the entrance area of the Source, offering a landscaped setting quality NHO develops a compact horizontal architecture, lively and fragmented dialogue with its urban environment. NHO is structured from east to west in five major areas of accommodation: SSR, strong medicine consultations, medicine, surgery, and mother-child, to consolidate vertically hospital specialties under a single administrative and medical direction. Bright, open landscape, SSR pole, on 2 levels, consists of 4 units of 30 beds. For each room, a bathroom 5m² allows access to health by the left or the right, depending on the patient's disability. The building is also complemented by a plate physiotherapy and therapeutic food. The whole is served by heavy automated transport (linen, meals, medication). HQE phases "program" and "design", he got THPE and aims HQE "realization". NHO implements innovative solutions in research light, especially in the design of its prefabricated timber frame walls.

Sustainable development approach of the project owner

CHR first HQE certified for Phases "program" and "design" (reposes specific buildings for health), he got THPE and aims HQE "realization" certification. To develop this complex project this level of requirement, the mastery of work has been widely supported by the project owner and the municipality of Orleans wishing to

make a copy of the NHO hospitable realization.

Architectural description

2006 laureate of the competition law MOP, Groupe-6 today realized Hospital of New Orleans (NHO), the largest hospital site in France. Beyond its scale, the NHO testifies an ambition of quality: it has obtained HQE certification for Phases "program" and "design", THPE and aims HQE "realization" certification. It will be delivered in 2015. A first pole, book in May 2013, welcomes the follow-up care, the main kitchen, the internal housing and creches, and was put into service in autumn 2013. A hospital in the heart of a city project Project New Orleans hospital (NHO) is the combination of a single site of two separate sites - Porte Madeleine Hospital (dating from the seventeenth century) located in the city center, and the hospital of La Source 10 km south of the Loire. The operation and provides for the construction of the NHO of 181,000 m², the restructuring of 4700 m² of existing construction, demolition and futures of some of the buildings present. Belong to a new generation of health facilities with exceptional dimensions, the NHO will host a total 1,300 beds and 2,500 parking spaces. The project meets the aspirations of the NHO a changing city. Repere legible, identifiable with its ellipse marking the southern entrance of the agglomeration, the NHO equipment becomes a structuring the La Source in full Evolution. Served by the new tram, access to the hospital is comfortable. An architectural language in dialogue with its natural and urban environment Organized around a unifying triangle, the project displays a readable and compact morphology: the poles of accommodation along the Avenue de l'hôpital form its foundation, the pole mother-child elliptical, articulation and the technical platform the along the RN 20, the second side, whereas the north parking closing the assembly. At the heart of the triangle, a garden orchard take place on the site of the old hospital once demolished. Structure into distinct units (five poles of accommodation including a pole mother-child elliptical for articulation and entry-repere and technical facilities), with a central street of nearly 400 m long on two levels, punctuated by courtyards and skylights, the NHO is designed on seven levels including five superstructure. He developed a horizontal architecture, animated and fragmented, avoiding the effect of block, to better interact with the surrounding low-rise residential neighborhoods. Open hospital Located on the outskirts of Orleans, 10 km from the Loire, a territory wins on First terraces of the Sologne, the district of La Source was intended at its creation, in 60 years, a "twenty-first century Cite driver" a green campus surrounded by a garden quotes, and according to intentions Louis Arretche charge of its urban design, neighborhood "or pedestrians would be kings." The dieback of the neighborhood from 90 years led to his election to ANRU program in 2004 and the establishment of an ambitious urban renewal district. To meet that has both urban heritage and register the equipment in the future, the NHO opens largely on the city and near the Avenue de l'hôpital. Walk freely accessible from the inside as from the outside of the building, shape, along the hospital day, a true urban garden. Hospital green The implementation of the NHO preserve a garden on the site of over 20 hectares people delicates species landscape of Sologne. Park birch and heather 700 m by 50 m borders Avenue Hospital, and forms a transition and a protective filter for both patients and residents. In the North, the demolition of the existing old hospital leave room has an orchard of 10 ha, offering a soothing view for patients and staff. Clarity hospital "Orleans city reflections" is the motto of the local urban identity. And NHO project is based on this definition. The lobby has strong and sweet volumetrie, partly under the reassuring love curve ellipse resting on piles of pole mother-child is a monumental scale of the equipment. It opens largely on the outside and its square, decorated mirror pool that reflects and multiplies the ellipse. Its facades, alternating solid panels and glazing, poses on a prefabricated timber frame base, are animated reflections sunshades glass with bright colors. Colors punctuate Avenue hospital and describe the architecture of the NHO. Transparency finds the inside. The lobby deploys a triple height is extended by a high internal street on two levels. These spaces enchainment with fluidity, AIR punctuated patios and skylights. Optimized design poles Designed after the principles of the new governance hospitable defining the "poles" clinical and medico-technical activity, the NHO and is divided from east to west into five major poles of accommodation: follow-up care and rehabilitation, a strong medicine consultations, medicine, surgery, mother and children. One standard horizontal structure facilitates sharing of technical, logistical and human, with each pole: Ground-floor high, tea gathering the outpatient reception services and admissions. At level 1, the hospital days. At levels 2, 3 and 4, the accommodations. At this scale, efficient distribution of flows is essential and is based on four Elements: An orientation and flow distribution center: the lobby. At the heart of the composition, it serves all "public areas". Is below the pole mother-child elliptical shape it confers a strong and recognizable visual identity. An interior street on two levels extends the lobby. Current between the five poles, it serves admissions and consultations at the foot of each of them. A functional neuralgic center: the single technical platform. Ultramodern, it gathers in the same spatial region of operative instructions functionalities varied. Centralized, automated logistics platform (system robots "turtle"). Real backbone of the project, it follows in the basement unifying triangular loop NHO and allows shorter paths between the different poles. This organization simplifies the working conditions of health workers and allows them to focus on their core business by relieving them of all spots annexes hotelieres and logistics. The creation of the fifth and last pole (SSR) that comes close is the ensemble, was reached in 2008, after the competition and during the studies to enable the creation of 120 beds acute care and rehabilitation on the site and the release of a sector is currently in geriatric center Saran. Last conceived, it was nevertheless the first part of the project book of May 2013, for commissioning in the fall of 2013. It hosts over two levels 120 beds SSR and technical platform kinesitherapie and occupational therapy, and the central kitchen CHRO initially planned extension of the existing hospital, 43 internal units, and three creches 60 seats each, scheduled for childcare staff and arranging places for users NHO (patients, visitors and consultants).

Building users opinion

"Bright rooms, equipment at the cutting edge of modernity, better organization, the new service care suites and geriatric rehabilitation is unanimity among patients and caregivers." Our work will be the same but the management of patients for supplementary examinations will be on site and limit the displacement of these fragile people. "Lydia explains Gouron, nursing manager." Thanks to the logistics platform, caregivers will be refocused on their core business and will be more effective, "she says." (Source: reportage France 3, 09/10/2013) <http://centre.france3.fr/2013/09/10/hopital-le-service-geriatrie-integre-ses-nouveaux-locaux-la-source-315721.html>

See more details about this project

[Trophee 2013 du Developpement Durable des Etablissements de Sante](#)

Stakeholders

Stakeholders

Function : Contractor

Centre Hospitalier Régional d'Orléans

Isabelle Mangallon (Communication CHR)

<http://www.chr-orleans.fr/>

Function : Designer

Groupe-6 (mandataire, architecture et économie)

Thierry BERNARDOUX (thierry.bernardoux@groupe-6.com)

<http://www.groupe-6.com/>

Function : Other consultancy agency

OGER International (ingénierie)

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

Function : Other consultancy agency

ARTELIA (ingénierie)

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

Function : Other consultancy agency

Adret (HQE)

Yves DOLIGEZ (yves.doligez@wanadoo.fr)

<http://www.adret.net/>

Function : Other consultancy agency

Brigitte Barbier (paysage)

Brigitte BARBIER, paysagiste

Type of market

Design and implementation

Energy

Energy consumption

Primary energy need : 190,00 kWh_{ep}/m².an

Primary energy need for standard building : 325,00 kWh_{ep}/m².an

Calculation method : RT 2005

Real final energy consumption

Final Energy : 125,00 kWh_{ef}/m².an

Envelope performance

Envelope U-Value : 0,46 W.m⁻².K⁻¹

Indicator : I4

Air Tightness Value : 1,20

Renewables & systems

Systems

Heating system :

- Urban network
- Heat pump

Hot water system :

- Urban network
- Solar Thermal

Cooling system :

- Water chiller
- Reversible heat pump

Ventilation system :

- Double flow heat exchanger

Renewable systems :

- Solar Thermal
- Biomass boiler

Smart Building

BMS :

GTB + dynamic management of facades

Environment

Urban environment

Land plot area : 15 770,00 m²

Built-up area : 4 000,00 %

Green space : 7 840,00

The project meets the aspirations of the NHO a changing city. Repere legible, identifiable with its ellipse marking the southern entrance of the agglomeration, the NHO equipment becomes a structuring the La Source, evolving. Served by the new tram, access to the hospital is comfortable.

Products

Product

ATEX WALL TIMBER FRAME

Product category :

Facade slight by the wall design timber frame structure on concrete posts and beams army outside DTU who need design ATEX. Procède senior executive DTU 31-2 that has been modified since

Procède under ATEX MADE by Groupe-6 Architects and valid commission by the CSTB 2009

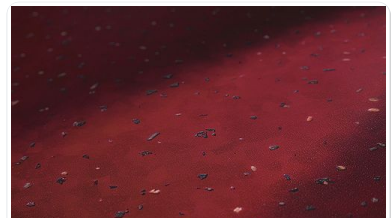


Sarlon QUARTZ

FORBO

Product category :

Providing a coating of acoustic vinyl flooring prints by 2 m wide, group Tabrasion type Sarlon Quartz phthalate, designed and manufactured from a green electricity 100%. The product will present a 100g of emission rate TVOC (**)



Health and comfort

Indoor Air quality

Using paints low VOC emissions, glue for tiles and floors flexible classified EC1, use of soft soil without phthalates, every product in contact with the interior volume of the building possess a ESFD to know the VOC emissions

Carbon

GHG emissions

GHG in use : 8,00 KgCO₂/m²/an

Methodology used :

Calculation method according refetentiel HQE target 4

Life Cycle Analysis

Eco-design material : Wood Facade

Contest

