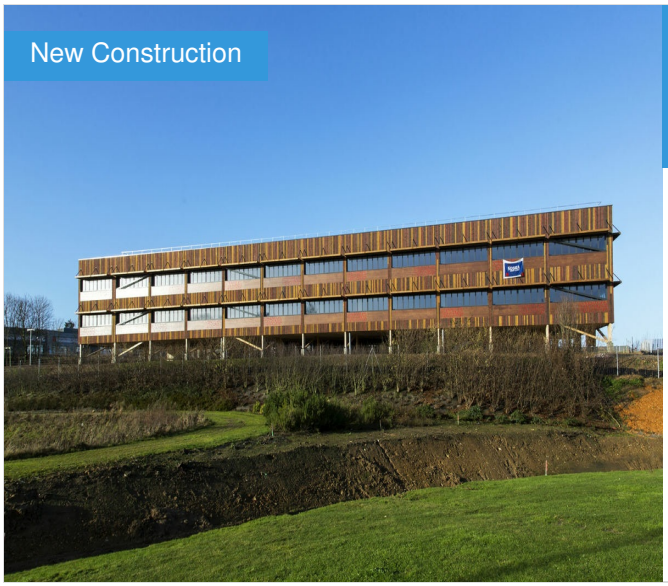
Modular offices ZAC du Pressoir

by Nathalie MEHU / 2017-05-19 10:14:09 / France / 10838 / FR



Primary energy need :

50.9 kWhep/m².an

(Calculation method : RT 2012)

ENERGY CONSUMPTION

Economical building — *Building*

< 50	A	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 : Office building < 28m
Construction Year : 2014
Delivery year : 2015
Address 1 - street : 76600 LE HAVRE, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 2 661 m²
Construction/refurbishment cost : 3 430 000 €
Number of Work station : 240 Work station
Cost/m2 : 1288.99 €/m²

Certifications :

General information

Design Realization of modular and removable offices in Le Havre for the urban agglomeration community - project of offices delivered in white. This design was carried out by SOGEA Nord Ouest subsidiary of Vinci Construction France.

Sustainable development approach of the project owner

The objective of CODAH is to create innovative buildings in order to meet high standards of sustainable development on all its sites. Through the use of recyclable and biosourced materials, it aims to dispose of the first buildings labeled "biosourced buildings" of France. These are already certified "NF HQE ™ Tertiary Building". Furthermore, these buildings, built quickly and adaptable to the uses of users, are a concept that could be revisited in the future. On this specific operation, the choice of the contracting authority was based on a design-construction procedure. Thus, from the first sketches and during the design of the project,

the exchanges made it possible to achieve the objectives of the program. The ambition of the project is to considerably reduce its environmental impact through an 80% recyclable building. As a result, the impact on the environment would be minimal when the buildings are moved or decommissioned. The overall environmental quality of the project is also reflected through the use of biosourced materials and the obtaining of the labels "NF HQE ™ Tertiary Building" and "Biosourced Building".

Architectural description

Design Construction of 7,200 m² of wooden offices divided into three buildings in two distinct sections. In order to offer green space around the building, the car park is created under the latter and raised by the use of piles. Vegetal valleys ensure the recovery of pre-filtered rainwater.

See more details about this project

http://www.certivea.fr/offres/label-batiment-biosource

Stakeholders

Stakeholders

Function : Designer

Agence 6.24

6 Place Frédéric Sauvage - 76310 SAINTE ADRESSE ; contact@ateliers6-24.fr

http://www.ateliers6-24.fr/pages/agence-architecture.php

Function : Other consultancy agency

ECHOS

http://www.beechos.com/
Design office for eco-design of buildings

Function : Construction Manager

Vinci Construction

Energy

Energy consumption

Primary energy need : 50,90 kWhep/m^2.an

Primary energy need for standard building : 77,00 kWhep/m^2.an

Calculation method : RT 2012

Renewables & systems

Systems

Heating system :

- Electric radiator

Hot water system :

- Other hot water system

Cooling system :

- No cooling system

Ventilation system :

- Single flow

Renewable systems :

- Other, specify

Environment

Urban environment

The ZAC du Pressoir is located close to a shopping area, restaurants and transport.

Products

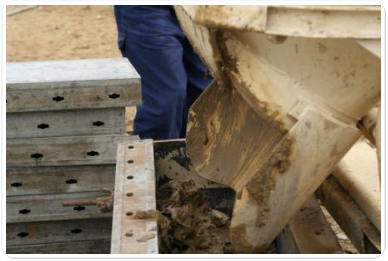
Product

CEMATERRE

CEMATERRE

4196 route des Entreprises - 76700 Gonfreville L'Orcher

http://www.cematerre.com/



Product category : Table 'c21_china.innov_category' doesn't exist SELECT one.innov_category AS current,two.innov_category AS parentFROM innov_category AS oneINNER JOIN innov_category AS two ON one.parent_id = two.idWHERE one.state=1AND one.id = '6'

The earth used for the construction of Cematerre is the one found on the sites, this limits the conveyance of a part of the materials. Next, flax fiber was chosen for its low water requirements and low CO2 production. It is produced in France, in Normandy. On a construction site, in order to limit the energy expenditure related to logistics, the load-bearing walls and Cematerre are produced on site, thanks to a mobile power station. The walls are then cast in formwork and the material is distributed through an innovative vibration process.

Costs

Carbon

GHG emissions

GHG in use : 2,37 $KgCO_2/m^2/an$

Methodology used :
RT Calculation 2012

Building lifetime : 50,00 année(s)

GHG Cradle to Grave : 650,00 $KgCO_2 /m^2$

Calculation BBCA Elodie

Life Cycle Analysis

Eco-design material : The structure and envelope of the buildings are wooden framed.

Contest

Building candidate in the category

Green Solutions AWARDS
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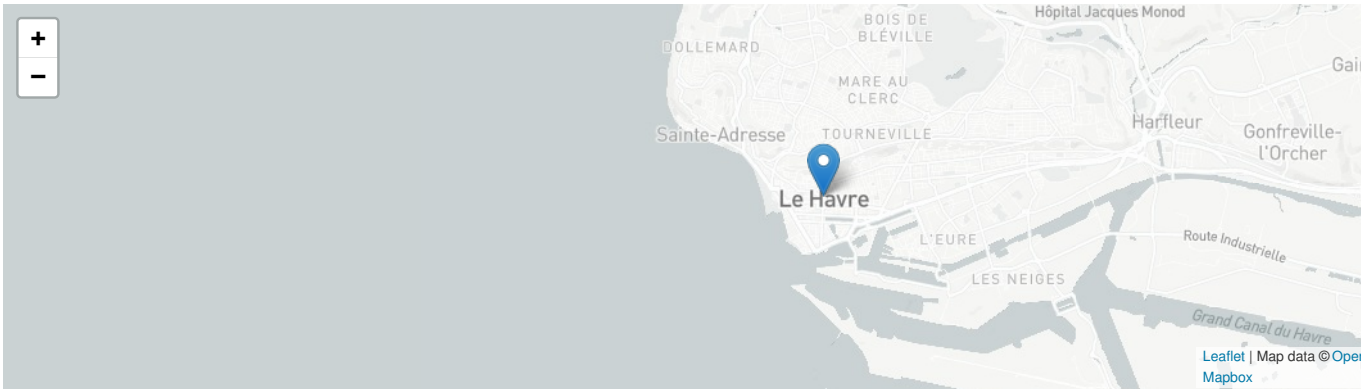
Coup de Cœur des Internautes



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