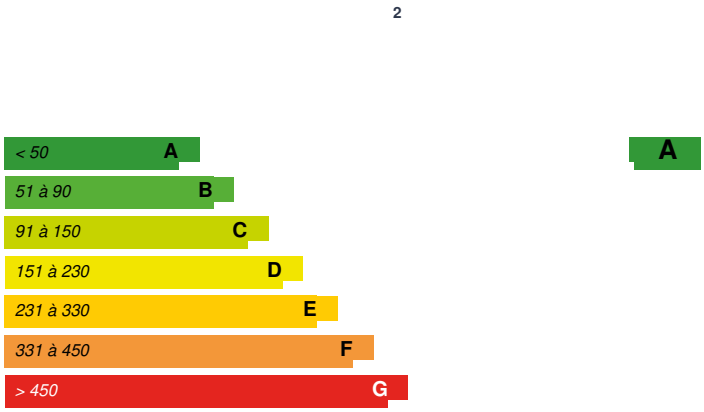
Rural house - CNERIB



Building Type : Collective housing > 50m
Construction Year : 2007
Delivery year : 2010
Address 1 - street : Cité Nouvelle El Mokrani – 16097 SOUIDANIA, Algérie
Climate zone : [Csb] Coastal Mediterranean - Mild with cool, dry summer.

Net Floor Area : 80 m^2
Construction/refurbishment cost : 30 000 €
Number of Dwelling : 1 Dwelling
Cost/m2 : 375 €/m^2

General information

pilot case made by a research center under the Ministry of Housing. The purpose of this project is to replicate the experience throughout the country in rural areas and in accordance climate studied

Data reliability

Assessor

Stakeholders

Stakeholders

Function : Contractor
CNERIB

Afrah Hamid Directeur du CNERIB afra_hamid@yahoo.com

http://www.cnerib.edu.dz

research integrated in the building

Contracting method

General Contractor

Owner approach of sustainability

The prototype, designed and produced by the National Centre for Studies and Integrated Research Building (CNERIB) in collaboration with the CDER (renewable energies development center) was selected as part of a competition launched by the MED program -ENEC (Mediterranean Energy Efficiency in Building Structure) in 2006

Architectural description

This first experiment concerns initially rural house that will confer a new concept of sustainable housing incorporating bioclimatic architecture in its design.

ajouter photos ou schemas

If you had to do it again?

Duplicate operation across rural areas of Algeria

Building users opinion

a completer

Energy

Energy consumption

Primary energy need : 45,00 kWhep/m^2.an
Primary energy need for standard building : 140,00 kWhep/m^2.an
Calculation method : Other
CEEB : 0.0032
Final Energy : 50,00 kWhef/m^2.an
Breakdown for energy consumption :
40 AIR HEATING 5

Real final energy consumption

Real final energy consumption/m2 : 50,00 kWhef/m^2.an
Year of the real energy consumption : 2 009

Renewables & systems

Systems

Heating system :
- Gas boiler
- Low temperature floor heating

Hot water system :
- Solar Thermal

Cooling system :
- No cooling system

Ventilation system :
- Natural ventilation

Renewable systems :
- Solar Thermal

Renewable energy production : 54,00 %

Environment

GHG emissions

Methodology used : to calculate

Water management

a completer

Indoor Air quality

EXCELLENT

Comfort

Health & comfort : a completer
Measured indoor CO2 concentration :completer
Calculated thermal comfort :completer
Measured thermal comfort :completer
Acoustic comfort : complete

Products

Product

CNERIB

CNERIB

CNERIB

HTTP://cnerib.dz
Product category : Génie climatique, électricité / Chauffage, eau chaude
a completer

a completer

Costs

Urban environment

a completer

Contest

Building candidate in the category

Energie & Climats Chauds

Grand Prix Construction Durable

Green Building Solutions Awards 2016
powered by Construction21.org

Coup de Coeur des Internautes

Date Export : 20231014002837