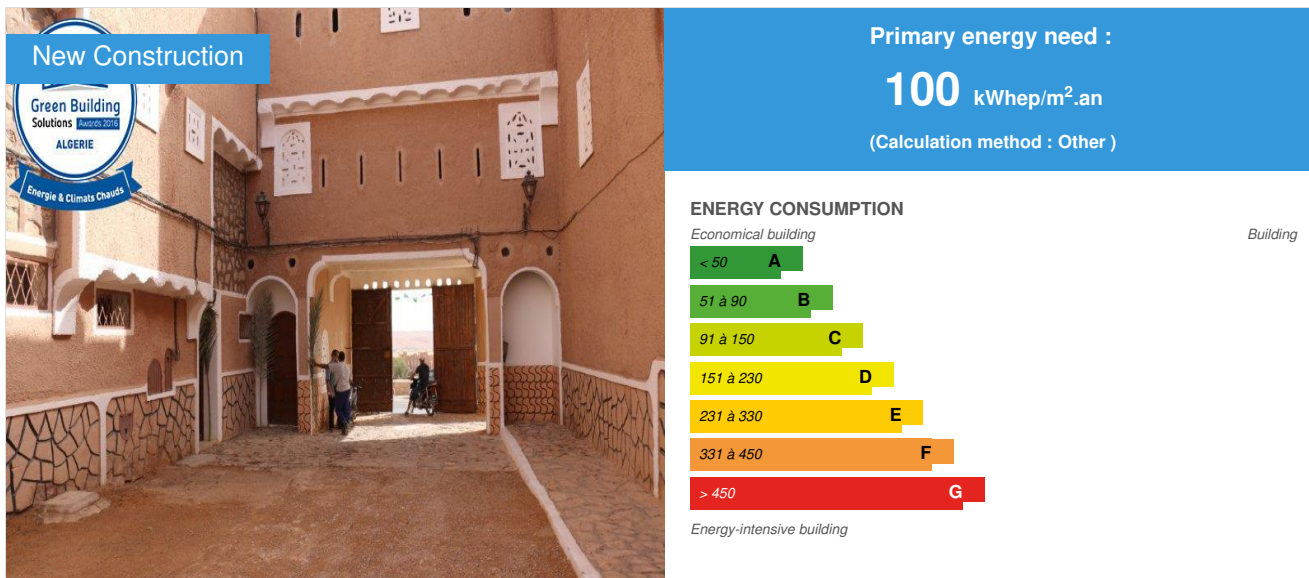


House Type Ksar Tafillelt

by abderrahmane zidane / 2016-05-15 11:47:37 / Algeria / 20695 / FR



Building Type : Collective housing > 50m
Construction Year : 2010
Delivery year : 2014
Address 1 - street : Ksar tafillelt 47131 TAFILELTE - GHARDAIA , Algérie
Climate zone : [BWh] Subtropical dry arid

Net Floor Area : 180 m²
Construction/refurbishment cost : 9 000 000 €
Cost/m2 : 50000 €/m²

General information

A home that makes up the new Ksar Tafillelt has Ghardaia, located at the entrance of the city, it serves as a bed house. Made of local materials extracted on site, stone, lime and plaster. It is part of a set of 1,000 social housing for vulnerable social groups. The approach is primarily social and environnementale

Data reliability

Self-declared

Stakeholders

Stakeholders

Function : Contractor
 FONDATION AMIDOULE
 Mr AMARA MOUSSA

Contracting method

Off-plan

Owner approach of sustainability

local materials: stone, lime and plaster available on site. Local labor and voluntary approach. public housing

Architectural description

Inspiration of the local architecture of Saharan type

[A](#)

If you had to do it again?

An expansion project is planned in the area

Building users opinion

totally satisfied

Energy

Energy consumption

Primary energy need : 100,00 kWh_{ep}/m².an

Primary energy need for standard building : 350,00 kWh_{ep}/m².an

Calculation method : Other

Final Energy : 50,00 kWh_{ef}/m².an

Breakdown for energy consumption :

80% of the energy for the lighting has comes from solar energy PV

More information :

The energy audit of this housing is being developed

Envelope performance

Envelope U-Value : 1,00 W.m⁻².K⁻¹

More information :

Very high thermal inertia of the envelope

Renewables & systems

Systems

Heating system :

- Gas boiler

Hot water system :

- Gas boiler

Cooling system :

- Fan coil

Ventilation system :

- Natural ventilation
- Nocturnal ventilation
- Nocturnal Over ventilation

Renewable systems :

- Solar photovoltaic

Renewable energy production : 50,00 %

Environment

GHG emissions

GHG in use : 50,00 KgCO₂/m²/an

Methodology used : other

GHG before use : 1 000,00 KgCO₂ /m²

Building lifetime : 100,00 an(s)

, ie xx in use years : 20

Life Cycle Analysis

Eco-design material : Lime plaster Stone

[↗](#) Tout les matriaux sont extrait sur site localement

Products

Product

local stone

LOCAL

LOCAL

[↗](http://tafilelt.com/site/) http://tafilelt.com/site/

Product category : Table 'c21_spain.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'

LOCAL STONES

SC



Plaster

naturel

Product category : Table 'c21_spain.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 gypsum ghardaia is one of the most used local materials in the regions

/

Costs

Construction and exploitation costs

Global cost : 12 000,00 €

Reference global cost : 12 000,00 €

Global cost/Dwelling : 11.11

Reference global cost/Dwelling : 12000

Cost of studies : 1 €

Total cost of the building : 9 000 €

Subsidies : 7 000 €

Energy bill

Forecasted energy bill/year : 150,00 €

Real energy cost/m² : 0.83

Urban environment

INTEGRATED IN KSAR

Building Environmental Quality

Building Environmental Quality

- Building flexibility
- indoor air quality and health
- biodiversity
- works (including waste management)
- consultation - cooperation
- acoustics
- comfort (visual, olfactive, thermal)
- waste management (related to activity)
- water management
- energy efficiency
- renewable energies
- integration in the land
- building process
- products and materials

Contest

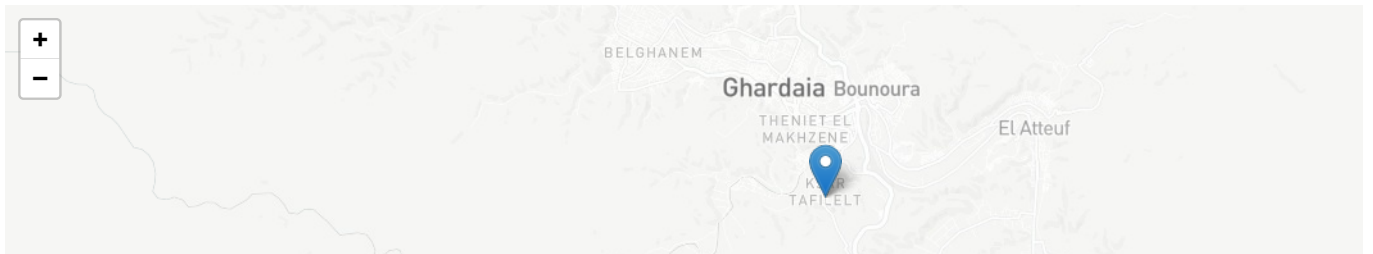
Building candidate in the category

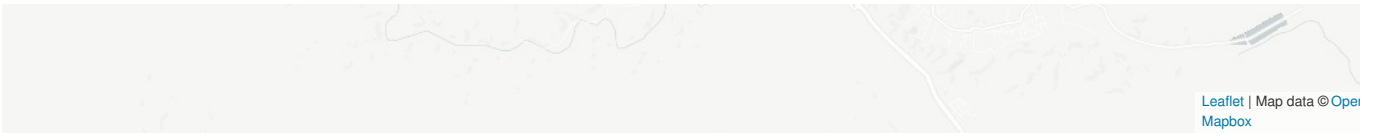


Energie & Climats Chauds



Coup de Coeur des Internautes





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