


Sainte Agathe School Group

by Jérémy FERNANDEZ-BILBAO / 2017-03-13 12:43:15 / France / 9622 / FR

New Construction



Primary energy need :
46 kWhep/m².an
(Calculation method : RTAA DOM 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 : Preschool, kindergarten, nursery
Construction Year : 2012
Delivery year : 2012
Address 1 - street : 97355 MACOURIA, GUYANE, France
Climate zone : [Af] Tropical Wet. No dry season.

Net Floor Area : 3 064 m²
Construction/refurbishment cost : 4 000 000 €
Number of Children : 16 Children
Cost/m² : 1305.48 €/m²

General information

Sustainable development approach of the project owner

QEA Approach

Architectural description

Construction of a school group of 16 classes

Stakeholders

Stakeholders

Function : Designer
Boa Architecture
Jérémy Fernandez
Co-contracting architect

Function : Designer
AB Architecture
André Barrat
Architect

Contracting method

Separate batches

Type of market

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Energy

Energy consumption

Primary energy need : 46,00 kWhep/m².an

Primary energy need for standard building : 76,00 kWhep/m².an

Calculation method : RTAA DOM 2012

Breakdown for energy consumption : Air conditioning 6% Water Solar Hot Water Solar: 3% Ventilation: 0% Interior lighting: 14% Outdoor lighting: 39% Air
Brewers: 18% Meal preparation: 11% Computing: 2% Other: 8%

Real final energy consumption

Final Energy : 24,00 kWh_{ep}/m².an

Envelope performance

More information :

Solar Factor
Roofing: 2.4%
Walls: 2.6% - 4.9%
Opening: 25%

Renewables & systems

Systems

Heating system :

- No heating system

Hot water system :

- Solar Thermal

Cooling system :

- Others

Ventilation system :

- Natural ventilation

Renewable systems :

- Solar Thermal

Renewable energy production : 9,00 %

Other information on HVAC :

2 splits

Environment

Urban environment

The school group is located in the neighborhood of saint agathe in Macouria, it is located in a subdivision composed of single houses in rez of road and bordered by a pripri.

Products

Product

Wood of Guyana

CBE

sec.cbe973@wanadoo.fr

<http://www.cbe.com>

Product category : Gros œuvre / Charpente, couverture, étanchéité

Realization of all the frameworks. Guyana wood is PEFC certified and several species are naturally sustainable, including the Angelica used on this project.

Guyana wood is a high-quality, locally produced material.



Costs

Carbon

GHG emissions

GHG in use : 28 000,00 KgCO₂/m²/an

Life Cycle Analysis

Eco-design material : PEFC certified local wood

Contest

Building candidate in the category



Energie & Climats Chauds





Coup de Cœur des Internautes



Date Export : 20230628190002