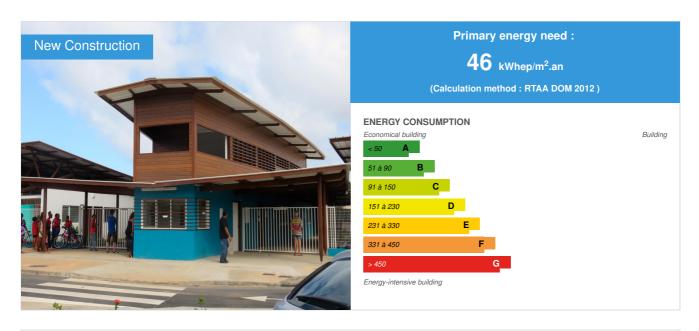


# **Sainte Agathe School Group**

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



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 m<sup>2</sup>

Construction/refurbishment cost : 4 000 000 €

Number of Children : 16 Children

Cost/m2: 1305.48 €/m<sup>2</sup>

### General information

### Sustainable development approach of the project owner

QEA Approach

### Architectural description

Construction of a school group of 16 classes

Stakeholders

Function: Designer
Boa Architecture

Jérémy Fernandez

Co-contracting architect

Function: Designer
AB Architecture

André Barrat

Architect

# Contracting method

Separate batches

### Type of market

Table 'c21\_belgium.rex\_market\_type' doesn't exist

### Energy

### **Energy consumption**

Primary energy need: 46,00 kWhep/m<sup>2</sup>.an

Primary energy need for standard building :  $76,00 \text{ kWhep/m}^2$ .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 kWhef/m<sup>2</sup>.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 %

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

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 KgCO<sub>2</sub>/m<sup>2</sup>/an

# Life Cycle Analysis

Eco-design material: PEFC certified local wood

#### Contest

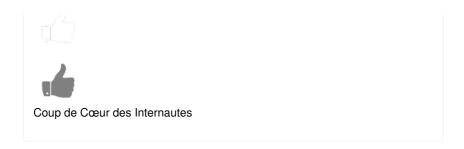
# **Building candidate in the category**





Energie & Climats Chauds







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