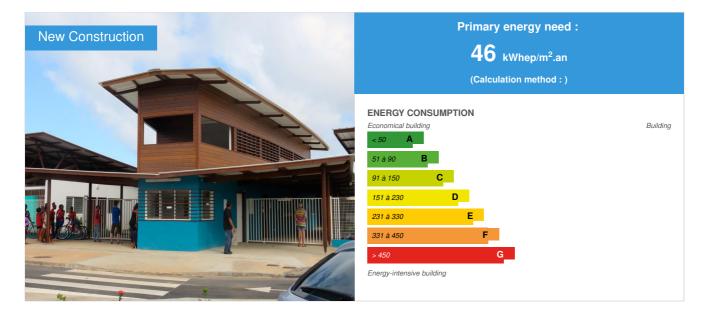


Sainte Agathe School Group

by Jérémy FERNANDEZ-BILBAO / 🕚 2017-03-13 12:43:15 / France / 🍥 9435 / 🏴 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 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

Table 'c21_luxembourg.rex_market_type' doesn't exist

Energy

Energy consumption

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

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

Calculation method :

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/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 %

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.



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













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