


The octuple of Pont de Salars commune

by Jean-Claude ESCRIVA / 2021-06-08 00:00:00 / France / 7232 / FR

New Construction



Primary energy need :

0 kWhep/m².an

(Calculation method :)

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 : Historic castle, other freaky buildings,...

Construction Year : 2019

Delivery year : 2019

Address 1 - street : centre de vacances Anse du lac, route du Vibal, base nautique l'anse du lac 12290 PONT DE SALARS, France

Climate zone : [Dfb] Humid Continental Mild Summer, Wet All Year

Net Floor Area : 184 m²

Construction/refurbishment cost : 125 000 €

Number of Dwelling : 8 Dwelling

Cost/m2 : 679.35 €/m²

General information

These are 8 cottages that have come replaced the furnished canvas bungalows aging and without insulation. They required the implementation of nearly 800 pallets. The pallets are called "white" that is to say they were removed from the logistics after a few transits, and were sourced from a Occitan recycler. The bracing is made from 15mm OSB 3 Hydro slabs used as interior facing. The insulation of the floor and ceiling is achieved by the implementation of blown cellulose wadding boxed in OSB 3 22mm. The walls are insulated from the outside via compressed wood wool panels that carry the function of a rain screen. The frame is made from I-type Swelite I220 beam which provides a slight slope towards the rear of the building. The cladding is composed of a raw larch veneer from a local supply-short cycle, sawmill Bois du Rouergue being located less than a kilometer. It is mounted in clear, 12cm vertical blades wide being covered by other 15cm blades. They were made by an international team of 8 people (consisting of a Chilean, a Belgian, a Moroccan and French) in 19 days only with unclear weather (rain, hail and snow). Intended to host green classes in the league of education of Aveyron, these chalets were equipped with ten beds and cupboards each. The electric octopus is composed of 4 catches, two lighting with comings and goings, of wiring for the installation of a radiator, and a reserve for the emergency block.

Sustainable development approach of the project owner

The objective was to replace 8 furnished bungalows of 25m² that can only work in the summer months with wooden structures to accommodate 3 seasons. The holiday center is composed of wooden chalets and a few mobile homes. A first mobilhome that served as a bungalow animation was replaced last year (2018) by

a pallet structure that gives complete satisfaction.

Compared to other constructions, the difference is in the time of realization between the order and the commissioning. The benefit of a dry site avoided having a dirty site and allowed to continue operating the center during the works.

Architectural description

The structure came to rest on existing concrete slabs of 5m x 5m, so it was important to be adapted to the dimensions of the slab. The Anse du Lac Holiday Center is installed at an altitude of 800m and wishing not to have to perform maintenance on the cladding, the choice of larch has naturally imposed itself. The "rough sawing" finish was chosen for aesthetic reasons and a desire to keep a "roots" spirit. Two particular demands were made on the roof with the principle of a roof overhang on the front of 70cm and a slight slope towards the back. The chosen materials had to be as "natural" as possible and the choice of wood wool and cellulose wadding for insulation suited the expectations.

Building users opinion

favorable reception, feeling of well-being

If you had to do it again?

A concrete slab of 70m² was planned for a new installation on the edge of lake object of the other elements of architectural description.

See more details about this project

<https://sylcat.eu>

<https://rescooz.com>

Photo credit

Sofrinov



Stakeholders

Contractor

Name : Ligue de l'enseignement de l'Aveyron

Contact : Laurent Garot

https://www.tourisme-aveyron.com/fr/diffusio/hebergements-groupes/l-anse-du-lac-centre-de-vacances-de-la-ligue-de-l-enseignement-de-l-aveyron-pont-de-salars_TFO023982582417

Construction Manager

Name : SOFRINNOV

Contact : Jean-Claude ESCRIVA

<http://www.sylcat.eu>

Stakeholders

Function : Designer

Marti

Jean-Claude et Didier'MARTI

<http://www.marty-freres-archi.sitew.com/#ACCUEIL.A>

Building permit

Function : Construction company

SOFRINNOV

Jean-Claude ESCRIVA

<http://www.oozwood.com>

Realization and management

Function : Company

SOLINSTALL

Jean-Marc MARTI

Contracting method

Lump-sum turnkey

Energy

Energy consumption

Breakdown for energy consumption : not known to date

Real final energy consumption

Real final energy consumption/m2 : 75,00 kWh_{ef}/m².an

Renewables & systems

Systems

Heating system :

- Electric radiator

Hot water system :

- No domestic hot water system

Cooling system :

- No cooling system

Ventilation system :

- Natural ventilation

Renewable systems :

- No renewable energy systems

Products

Product

SYLCAT

SOFRINNOV

Jean-Claude ESCRIVA

<http://www.sofrinnov.fr>

Product category : Gros œuvre / Structure, maçonnerie, façade
pallet assembly

simplicity of implementation

Cellulose wadding

Univercell

Product category :

Floor with 15cm bulk insulation of cellulose wadding blown.
Ceiling with 22cm bulk insulation of cellulose wadding blown.
Steico wood wool panels 35mm on the walls

Asked by the client

Construction and exploitation costs

Reference global cost : 1 200,00 €

Reference global cost/Dwelling : 1200

Cost of studies : 10 000 €

Total cost of the building : 116 000 €

Additional information on costs :

the buildings were commissioned on April 26. No experience feedback on energy consumption.

Circular Economy

Reuse : same function or different function

Batches concerned by reuse :

Economic assessment

Total cost of reuse : 20 000 €

Cost of reuse in percentage of the operation : 16 %

Saving realised thanks to the implementation of reused materials compared to new materials : 60 000 €

Contest

Reasons for participating in the competition(s)

The speed of execution was one of the strengths of this construction whose commissioning was to be less than a month. These 8 cottages were realized in 19 days of work with a light team of 8 people on average and without specific tools or heavy means (no crane or scaffolding). The desire to join a recycling scheme was also a strong point of the customer and the revaluation of the pallets to build the frame was discriminant. The implementation of short circuits and to make work local businesses was also a point strong, with a sawmill less than a kilometer we were able to entrust the supply of Larch cladding to them and supply other materials in the Occitan Region.

Being a dry site, the site did not disrupt the life of the holiday center in the environment and generated very little waste, the latter having been upgraded within the local wood industry (wood pellets). heating for certain products and nest boxes for larch falls). The team was trained in the constructive technique during the first week, for the trainer to make sure of the good understanding of the SYLCAT technique based on pallets.

Building candidate in the category



Bâtiments résidentiels / prix de la construction neuve

