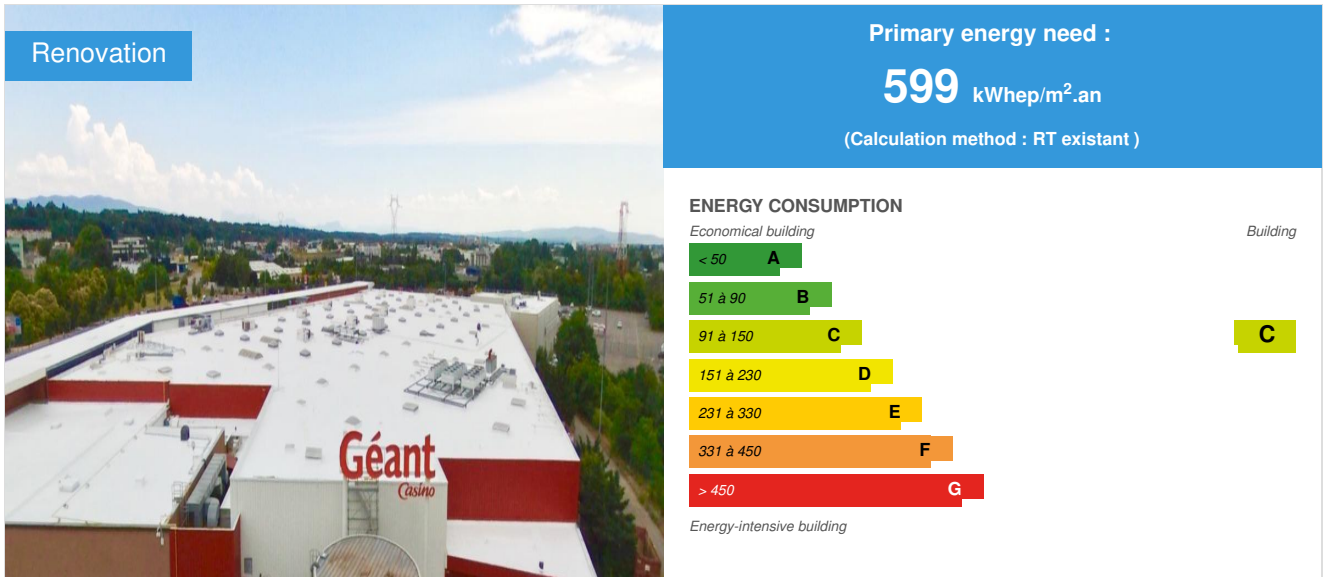


Géant Casino in the south of Valence

by Antoine Horellou / 2019-05-29 10:53:38 / France / 6752 / FR



Building Type : Supermarket - Hypermarket

Construction Year : 2018

Delivery year : 2018

Address 1 - street : Avenue de Provence Quartier, Rue de Chantecouriol 26000 VALENCE, France

Climate zone : [Cbc] Mild, dry winter, warm and wet summer.

Net Floor Area : 18 000 m²

Construction/refurbishment cost : 360 000 €

Cost/m2 : 20 €/m²

General informations

Installation on May 30, 2018 of a weather station, surface temperature sensors and soffit.

Description of the operation: A coating Cool Roof France was implemented on 18 000 m² of roof of the hypermarket and the gallery of the Casino Valence Sud to reduce the energy expenditure of the building.

Results:

- The surface temperature is reduced by 4.98 ° C on average with reduced maximums of 36 ° C
- Maintaining temperature setpoints despite 5 roof top (out of 10) down
- The overall energy consumption of the building has been reduced by 12% or 20.5kWh / m² / year

Sustainable development approach of the project owner

This approach responds to the fact that Géant Casino Valence Sud wanted to lower its energy consumption.

Architectural description

The building is a shopping center of 18,000m². The roof, is sandwich panel steel tank / insulation / bilayer bitumen and suffering from microcracks. In 2017, the decision was made to implement a CoolRoof application on the roof.

Photo credit

Coolroof

Stakeholders

Contractor

Name : Groupe Casino

Contact : 04 75 75 42 00

<https://magasins.geantcasino.fr/magasin/valence-sud/CG859>

Construction Manager

Name : Cool Roof France

Contact : 02 44 84 08 04

<https://www.coolroof-france.com/>

Stakeholders

Function : Company

Cool Roof France

02 44 84 08 04

<https://www.coolroof-france.com/>

Energy

Energy consumption

Primary energy need : 599,00 kWh_{ep}/m².an

Primary energy need for standard building : 300,00 kWh_{ep}/m².an

Calculation method : RT existant

CEEB : -0.0008

Initial consumption : 599,00 kWh_{ep}/m².an

Real final energy consumption

Final Energy : 565,00 kWh_{ef}/m².an

Renewables & systems

Systems

Heating system :

- Heat pump

Hot water system :

- Individual electric boiler

Cooling system :

- Reversible heat pump

Ventilation system :

- Double flow heat exchanger

Renewable systems :

- No renewable energy systems

Urban environment

Valencia Business Center 2

Products

Product

CoolRoof

Cool Roof France

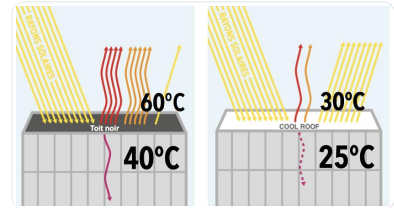
contact@coolroof-france.com

<https://www.coolroof-france.com/>

Product category : Finishing work / paints, mural, wallcoverings

Cool Roof offers an innovative ecological reflective thermal paint, which reflects the heat. Environmentally friendly, it is light, resistant and easily applied to all types of roofs. A white roof "Cool Roof" returns the heat of the sun, thus limiting the heat on the roof of the building, and thus inside the building. The building manager can: - save up to 30% energy - plug the roof microcracks - all without having to modify the structure of his building

Owners of large commercial, industrial or institutional buildings seek this kind of simple, affordable, direct energy efficiency solution, thus avoiding overloading the production of cold.



Costs

Construction and exploitation costs

Total cost of the building : 327 800 €

Energy bill

Forecasted energy bill/year : 272 000,00 €

Real energy cost/m2 : 15.11

Real energy cost/Visitor : 15.11

Contest

Reasons for participating in the competition(s)

En 3 semaines de travaux sans gêne au bon fonctionnement du magasin, l'hypermarché Géant Casino de Valence Sud a ainsi enregistré jusqu'à 36°C de moins pendant les pics de chaleur sur la toiture après application du CoolRoof, une diminution de 12 % sur la facture énergétique globale en été. L'hypermarché a donc réalisé une économie d'énergie et donc de carbone grâce à la diminution de consommation en climatisation. Le confort intérieur et extérieur du bâtiment est également amélioré puisque le bâtiment ne souffre plus des fortes chaleurs, la température intérieure ressentie est réduite et l'effet d'îlot de chaleur tout autour du bâtiment est également maîtrisé.

Building candidate in the category



Santé & Confort





Prix du public



Prix des Etudiants



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