

Sylvania makes the Grade at Eugene Decomble High School

Eugene Decomble High School, France

Feilo Sylvania supplies innovative SylSmart-enabled luminaires to Eugene Decomble High School

Global lighting manufacturer, Feilo Sylvania, has supplied its innovative SylSmart-enabled luminaires to provide an energy-efficient lighting and control system at the all-new Eugene Decomble High School in France. A High Environmental Quality (HQE) approach was adopted for the building, especially when it came to the lighting scheme as it represented the most important energy consumption.

Eugene Decomble High School is the result of merging two professional schools, Ashton and Haut du Val in Chaumont and has capacity for 431 students who are undertaking training in the automotive, industrial, building or

public works sectors. The school construction plan involved restructuring the Ashton site, which was approx. 23,000m² and make it a showcase for eco-construction and sustainable development.



Key Facts

Client: Eugene Decomble High School

Project Planning: Grzeszczak-Rigaud Architects worked with Engineering office, Artelia and Marseille based installers, Groupe SNEF

Key Outcomes

- High Environmental Quality (HQE) construction
- Increased visual comfort for students
- Added controllability



The project involved creating a lighting scheme for the school's 25 classrooms, corridors and boarding house. Grzeszczak-Rigaud Architects worked with Engineering office, Artelia, and Marseille based installers, Groupe SNEF, to install a lighting scheme that guaranteed the best visual comfort for the students and staff. A lighting and control solution from Feilo Sylvania was selected due to its high efficiency, adaptability and ease of installation.

"In order to best meet the specifications which were based essentially on energy, performance, we proposed Lumiance Insaver LED luminaires and the SylSmart lighting management system", explains Angélique Morel, Market Manager at Feilo Sylvania.

To suit the dimensions of the classrooms, two versions of the SylSmart-enabled luminaires were installed: 150 fixtures with a luminous flux of 3,210lm (2 x 15W) and 100 with a flux of 7,700 lm (3 x 15 W). The luminaires are equipped with a very low luminance grid and a micro-prismatic diffuser, associated to a colour temperature of 4,000 K. The daylight sensors help to maintain the illuminance level of 450 lux on the tables, regardless of natural light contribution. Each luminaire is equipped with an SylSmart presence sensor that has an infrared transmitter and receiver device. The lighting management system operates as follows: as soon as someone enters the classroom, the first set of luminaires lights up to 100%, the second set of luminaires located three meters further receive the information



from the previous set and lights up to 80%. They in turn transmit a signal to the luminaires located at 6m from there, which lights up to 60%.

SylSmart is a wireless system, each fixture has its own sensors and controllers and is connected to others. It enables teachers to interact with the system through an infrared remote control or from a tablet or a Smartphone.

A number of Insaver LED downlights from Lumiance are also installed in the corridors to produce a high quality light output to illuminate the space effectively. Available in recessed or surface mounted options, Insaver LED is extremely easy to install and is suitable for applications requiring long service hours such as lobbies, residential areas, hallways, open-space offices, meetings rooms.

Key Benefits

- A High Environmental Quality (HQE) approach was adopted for the building, especially when it came to the lighting scheme as it represented the most important energy consumption
- The new lighting scheme will improve the visual comfort for both the students and staff
- The new lighting enables teachers to interact with the system through an infrared remote control or from a tablet or a Smartphone.



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Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Current details should therefore be checked with Feilo Sylvania Europe Limited.

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