

THORN

LIGHTING PEOPLE

Case Study

Powiśle Park, Warsaw, Poland



Thorn equips new office building in Poland with extensive lighting package

Background

Property developer and long-term Thorn customer, Powiśle Park, approached Thorn for an outdoor and indoor lighting solution for its new class A office building at ul. Kruczkowskiego 2 in Warsaw, Poland.

Designed by architects Kuryłowcz & Associates, the 20 000m² building features some of the latest architectural trends and modern, eco-friendly energy systems. Thorn was chosen on the basis of the high quality of its products and the fit of the products' designs with the building's architectural design.

Lighting objective

The lighting objectives were to fit with the building's distinctive architectural design while achieving a good level of energy efficiency. Areas to be illuminated included the offices, corridors, conference/meeting rooms, toilets and car park.

Lighting solution, results and benefits

For the offices, main corridors and conference/meeting rooms, a customised version of Thorn's Equaline luminaire was installed with T16 direct lamps. Offering linear lighting in a simple and pure design, Equaline has a high light output ratio and importantly, flexibility to meet architectural design requirements.

Products used



Equaline



Chalice 190 H



Band



Aquaforce II LED

Key facts

- Customised Equaline luminaire meets specific architectural demands
- Extensive use of lighting controls minimise energy consumption





With white ceilings throughout the building, Equaline was customised with a white paint for seamless integration. In addition, the standard single and double length modules were adjusted so that the lengths of the luminaires corresponded with the room dimensions.

To meet the architect's requirements the mounting height of Equaline is the same in every room, even where the ceiling height changes. A combination of recessed, suspended and surface mounted mounting techniques was used.

To reduce energy consumption Equaline is fitted with presence detection in every room. The offices also benefit from daylight detection while the conference/meeting rooms have task/scene setting functionality.

For the toilets and other corridors it was important to find a cost effective luminaire that would deliver performance and value. For this reason Thorn's fluorescent Chalice 190 H shallow recessed downlight was used. Offering high versatility and excellent performance, Chalice 190 H consumes 25% less power than traditional fluorescent versions and is fitted with presence detection to further reduce energy consumption.

On the building's façade a special version of Thorn's dynamic Band RGB floodlight with DMX was provided. Each floodlight has been mounted as an uplight and each window has its own floodlight. Dynamic scenes bring the building to life and enable the colour of the façade to change.

The entire office building is controlled by Thorn's Sensa lighting management system which incorporates time management to ensure all lights are turned off during unoccupied periods.

In the car park Thorn's IP65 rated Aquaforce II LED luminaire provides highly durable and efficient lighting with the added benefit of lighting zones coupled with presence detection to eliminate energy being wasted lighting an empty space.

Piotr Grudniewski, Marketing Director CEE at Thorn, says: "Key to success of this project was our good relationship with the architect, our product customisation flexibility and our technical knowledge in lighting controls."

eControl From Thorn's 15 ways to save energy, the following are key to minimising energy consumption:



Presence/absence detection

Sensa controls detect when the space is empty and automatically turn the lights off to prevent energy being wasted.



Daylight

The office lighting benefits from daylight controls to automatically adjust the lighting according to daylight levels. This ensures the lighting is not on when it is unnecessary.



Task/scene setting

Task/scene setting focuses on using the right amount of light for the particular time and task in hand. In the conference/meeting rooms, users can choose from a range of scenes to suit their requirements.



Timed off

Lights are automatically turned off during unoccupied hours and turned on when required. As a result, no energy is wasted lighting the building when it is closed.



Zoning of lighting

Careful selection and arrangement of lighting in the car park maximises lighting impact while minimising energy use in unoccupied areas.

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