

# CLEANTECH ONE



**Façade**

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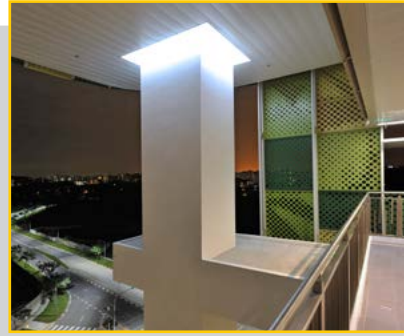
Singapore's first eco-business park, CleanTech One is the first unit for the prestigious CleanTech Park. The two towers of the building have been designed with green sustainable features, including solar energy systems, rainwater harvesting and sky trellises that allow the incidence of natural daylight into the buildings. This cutting-edge building is expected to house up to 50 companies with a focus on green sustainability. With the increasing concern in global warming, CleanTech Park is poised to provide progressive investors with attractive options and eco-friendly space.

The CleanTech Park is set to be developed in three phases over 20 years. Tang Wai Yee, director, Aerospace, Marine & CleanTech Cluster, JTC, said: "We hope to develop a very green CleanTech One, but in a practical and a cost-effective manner. And if this is successful, we will replicate the solution in the rest of the CleanTech Park and we will share this with the rest of Singapore and possibly in the region. CleanTech One will also be a test bed for urban solutions and sustainable development in the tropics. Hopefully, one day, new urban solutions, clean technologies will be discovered, developed or commercialised in CleanTech One."

In addition to focusing on hosting environmentally friendly industry, the complex is being developed by



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**Structural lighting**

JTC Corporation with an eye towards environmentally responsible practices, with "green" buildings and maintenance of natural terrain.

Thanks to being both vibration and shock-proof, the highly efficient plug and play AluLED IP67 module from Vossloh-Schwabe was the ideal lighting solution for this renowned project. Being extremely slim and flat AluLED IP67 made it suitable to illuminate complex structures and space that is limited for traditional light sources to be installed. Various lengths of 6,000 K colour temperature were used and allowed for easy customization.

For indoor lighting AluLED IP67 was used as cove lighting along the lobby corridors where indirect light helped to brighten up the entire area. Outdoor illumination was enhanced by protected border lighting for pillar structures and architectural illumination. Carparks were mainly illuminated through path markings that shed light brilliantly. Thus, significant features were given due emphasis with lighting elements that were integrated with the façade detailing.

Suitable for high moisture indoor applications, various length of AluLED IP67 strips were used behind the mirrors above the wash basins illuminating the area homogeneously. The simple mounting system also allows for easy maintenance and upkeep.

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## AluLED IP67



**Illuminated path marking**

With long service life of up to 45,000 hours, even lighting output and low power consumption, AluLED IP67 effectively cut necessary maintenance costs and significantly reduced CO<sub>2</sub> emissions and counter greenhouse effect.

Thorn being part of the Zumtobel Group, is a globally trusted supplier of both outdoor and indoor luminaires and integrated controls. Providing products and services which make it easier for customers to specify, install and maintain good quality, energy efficient lighting. Committed to excellence in optical performance and installer functionality.

<b>Project:</b>	<b>Cleantech One</b>
<b>Client:</b>	<b>JTC Corporation</b>
<b>Lighting Supplier:</b>	<b>Thorn Lighting</b>
<b>Lighting Manufacturer:</b>	<b>Vossloh-Schwabe</b>
<b>Photos:</b>	<b>Vossloh-Schwabe</b>