

## DAYABUMI COMPLEX, KUALA LUMPUR

[view](#)

Application range

Office

Type

Reference, Showcase

The Dayabumi Complex is a major landmark in Kuala Lumpur, Malaysia. It houses several commercial facilities and is one of the first skyscrapers to be built in the city. It is located near the National Mosque, the Old Kuala Lumpur Railway Station and the Federal House at Jalan Sultan Hishamuddin. It was designed in a modern Islamic style. The facade of the tower is adorned with patterns of eight-pointed stars, and Islamic arches at the top and bottom of the tower.

Fortunately, Central Market, which is near the banks of the Klang River avoided demolition during Dayabumi Complex's construction. The building was completed in February 1984. It was originally owned by the Urban Development Authority of Malaysia (UDA), but in 2005 the building was taken over by the KLCC Properties Holdings Berhad (KLCCP), a member of the Petronas Group. KLCC Properties Holding Berhad has recently refurbished Dayabumi Complex and added a new lobby during phase 1 and 2 of the refurbishment project.

TROX Malaysia Sdn Bhd provided the design, manufacture and laboratory testing of this custom made solution. In order to ensure that the design met the performance requirements, part of the laboratory testing TROX conducted included air throw pattern tests with KLCCP, the Architect and the M&E consultant present. They were delighted with the results and the support which TROX Malaysia provided throughout the project

The new lobby was designed using a totally transparent glass and steel structure without any ceiling or HVAC ducting. TROX Malaysia Sdn Bhd worked with KLCCP, the Architect and the M&E Consultant to design quadrant shaped displacement diffusers which incorporate both supply and return air within a single unit. The supply chilled air is supplied from the lower floor and the warm return air is channelled back to the lower floor through the displacement diffusers. TROX also made provision for supporting lighting fixtures which sit on top of the displacement diffusers.