TROX® TECHNIK
The art of handling air

UNITED WORLD COLLEGE OF SOUTH EAST ASIA (UWCSEA)

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Reference, Showcase

In 2014, the Singapore-ETH (Swiss Federal Institute of Technology) Centre and UWCSEA unveiled a ground-breaking technology that allows three floors of office space to be built within the conventional height for a 2-storey office at their Dover campus. Hence, ETH named it the ‘3-for-2’.

This research pilot project is designed and project managed by ETH. The project is confined to the first floor with 550 m² of office space within the 3-storey new office extension. The project is complete and was officially opened early this year on the 19th January 2016. It is expected to be touted as the most energy efficient building in Singapore once ETH have completed their study on the building operation and performance efficiency. This is expected to be completed in two years from January this year. This will revolutionize how commercial buildings will be cooled and ventilated in the future.

TROX is one of 2 major partners for this project and supplied our type PKV passive chilled beams and FBA-VAV floor diffusers. TROX also provided technical support for the design and installation of the passive chilled beam system and the UFAD system, which forms part of the HVAC system in the ‘3-for-2’ design.

ETH had a clear idea of what they needed and found in TROX the ideal partner to make the project a success. This was because TROX have the manufacturing plant, inclusive of test facilities based in Malaysia which is not far from the 3-for-2 site location. This ensured that all support was provided in a timely manner during the design and construction phase of the project