

## Case Study Woking Shopping Centre – THGT



## Woking Shopping Centre – brand new ventilation system boasts state-of-the-art smoke extraction

“We have considerable expertise in supporting the upgrade of smoke control and ventilation systems within the built environment and were pleased to be able to supply Woking Shopping Centre with our versatile and resilient axial flow fans”

**Lee Page**  
Sales Director at S&P UK

### Situation

Woking Borough Council instructed main contractors Sir Robert McAlpine who then engaged Airflow Design Services to carry out the design, supply and installation of Market Walk's smoke extraction system at Woking Shopping Centre in Surrey.

S&P UK Ventilation Systems was selected to support the new smoke extraction system by providing smoke axial flow fans which also help to optimise ventilation and indoor air quality.

The 500,000 sq ft shopping centre, based in the heart of Woking, has around 90 retailers and relies on its indoor ventilation system to meet rigorous fire safety and building regulations whilst maintaining a pleasant environment for shoppers and staff, seven days a week.

### Solution

The upgraded smoke extraction system involved the installation of two THGT smoke axial flow fans. The range of adjustable and energy efficient units is designed for effective smoke extraction in the event of fires to aid safe evacuation and is specifically designed to blend into the building structure. They are compliant with all relevant codes and standards.

## Benefits

In keeping with life safety system requirements, by replacing the existing smoke extraction ventilation with a well-designed and modern system, the shopping centre should provide smoke-free escape conditions at all occupied levels in the event of any fire incident to allow the building to be evacuated safely with minimum risk of smoke inhalation, injury or death.

At the same time, general levels of ventilation and indoor air quality will be enhanced, with the fans also providing increased reliability and lower maintenance costs.

**“We provided two THGT units – suitable for horizontal and vertical mounted installation – to help meet building regulations and offer additional peace of mind. They can also be used on a rotational basis to save maintenance costs and provide optimal energy efficiency levels to help reduce fuel bills and carbon footprint”**

**Lee Page, Sales Director at S&P UK**

**“Lee and the team have been a pleasure to deal with. The services that S&P have provided, along with their technical support when needed, have been above expectations. I look forward to working with them on future projects”**

**Dan Harris, Project Manager at Airflow Design Services**

## Technical

S&P UK's THGT range of adjustable pitch aerofoil blade, long cased axial flow fans is designed for effective smoke extraction in fire conditions.

The units are versatile, reliable and resilient, and support optimal levels of energy efficiency within indoor ventilation systems.



- Certified to F400-120, F300-120 and F200-120 standards (CE marked)
- Casings formed from rolled sheet steel with corrosion-resistant hot dip galvanised finish
- F400-120, F300-120 or F200-120 certified motors approved for running continuously (S1) or for emergency operation (S2)
- Motor support: Manufactured from galvanised sheet steel. Models from 400 to 800
- Aerodynamic design of the motor support to optimise airflow performances models from 900 to 1250
- Motor support (1400 and 1600 mm diameter): Welded on the fan casing. The whole assembly has a corrosion resistant hot dip galvanised finish
- Impeller dynamically balanced according to ISO 1940 standard, providing vibration free operation



**We are proud to have provided ventilation solutions for over 100,000 UK businesses both big and small.**

**How could we work with you?**



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