

Old War Office, Whitehall

Dust Control within an Historic Listed Building in Central London

October 2018

The development

- 580,000² ft building to be retained and extended
- 3 new floors to be added to the building
- A new double-height basement
- 125 5-star hotel rooms
- 88 luxury apartments

High-end facilities

- Exclusive restaurants and bars
- Boutique shops
- Ballroom
- Spa and gym
- 25m swimming pool

"RVT gave a great service in assisting the project team in meeting their statutory requirements and beyond. The planning, advice and support was first class and a specialist engineer visited the site to ensure the team were using the equipment to its maximum potential. RVT are an innovative company with good support systems in place and are a pleasure to work with!"

Paul Williams
SHEP Manager
Toureen Special Projects



Located in the heart of Whitehall, the Old War Office - a Grade II listed former government building - is currently being transformed into a 125 room five-star hotel, and 88 one-to-five bedroom apartments.

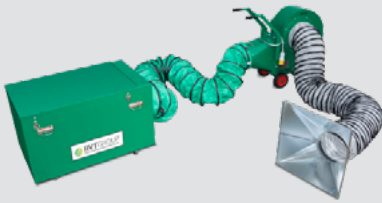
The historic Edwardian building has previously housed such famous figures as Winston Churchill during World War II, as well as Secretaries of State, Lord Kitchener and T.E. Lawrence, and John Profumo.

The plans are to give this building a new purpose whilst also respecting its period features and place in history. Planning is also conditional on offering public access to historically significant parts of the building at least 10 days each year.

The Toureen Group are currently working on the structural alterations, converting part of the building into a hotel. These include cutting additional door openings into the corridor walls.

The challenge

To ensure dust control whilst the cutting works for the structural alterations were being undertaken over most of the floor levels, in order to prevent dust breaking out into the corridors and other parts of the building. Further prevention of the spread of dust and fumes within the basement works areas were considered.



Dustex WandaFilta Plus

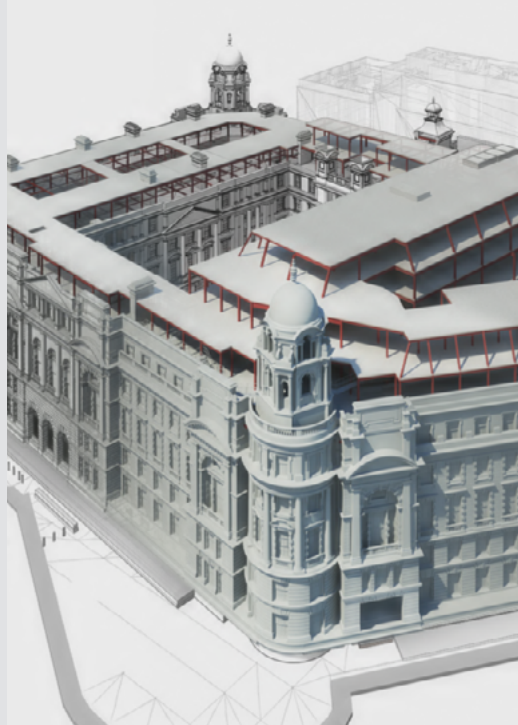
- Powerful fan moving 6000m³ of air per hour
- Washable filters
- Dust capture hood options
- Maintains pressure over long runs of ducting



Ventex Centrifugal Fan 300M

- High-powered, mobile centrifugal fan
- 110V Supply
- Long duct runs up to 80m
- Can be used for dust and fume filtration
- Suitable for extraction of exhaust or paint fumes

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The solution

RVT Group provided localised dust control during the cutting works. They recommended a Ventex Centrifugal Fan 300M and a Dustex WandaFilta Plus control kit per team to capture and control the dust at source. These control measures effectively stop the dust from breaking out into the corridor and other parts of the building.

A total of 10 Ventex Centrifugal Fan 300M kits and Dustex WandaFilta Plus dust control kits were used on site.

Dustex WandaFilta Plus

The Dustex WandaFilta Plus is a powerful extraction and filtration kit, enabling filtered negative pressures to be achieved and effective purification of air in high-dust settings. It is capable of moving 6000m³ of air per hour and can maintain pressure over long ducting runs. Quick to set up and very mobile, the Dustex WandaFilta Plus is in a class of its own.

Ventex Centrifugal Fan 300M

The Ventex Centrifugal Fan 300M is particularly suited to extracting any hot fumes or paint fumes because the motor is not in the airflow, and also where long duct runs are required to remove the fumes. Alternatively, the fan can be used in conjunction with a WandaFilta Plus unit to create negative pressures and filter out dust and fumes.