

Safety and comfort



Waterside Park

London | England | Realised by: Airvent, United Kingdom

Comfortable environment and fire safety are central points

Challenge: Safety at the heart of Royal Dock's revival

Waterside Park is a vibrant urban development set at the heart of the monumental Royal Docks revival. The 11.4 acre development will comprise of almost 800 new homes designed by award winning architects Allies and Morrison and MacCreanor Lavington.

Waterside Park incorporates residential, retail, commercial and leisure facilities, creating a diverse mixed-use neighbourhood. On site provisions such as CHP systems, promote environmental sustainability and all homes reach level 4 of the Code for Sustainable Homes.



Solution

- **Comfort ventilation and emergency-activated smoke control**
The client required a smoke ventilation system for the staircases, lobbies and corridors which feature elements of both passive day-to-day comfort ventilation and emergency-activated smoke control which the client required to be delivered fast track to meet the demanding site programme. In some blocks there was also a requirement to provide a car park smoke ventilation and day-to-day ventilation system.
- **Smoke shaft systems**
Brakel Airvent's expertly-engineered system for the smoke shafts is called ShaftMaster, designed to integrate seamlessly with other building services to produce a cost-effective solution for the protection of the stairs, lobbies and corridors.
- **Open protocol network control system**
Our works included an open protocol network control system utilising our IntelliVent control system (wirelessly integrated into a network for system status monitoring), Guardian 50 and 100 induction fans for the car park, EN 1366 tested Enforcer smoke dampers opening in the shaft with secret fixed cosmetic grilles and IE2 smoke extract fans.

"Brakel has applied its skill and expertise to each of the blocks on site, taking into account the differing smoke control and natural ventilation challenges posed by each block."

All blocks and the underground car park were required to have CFD modelling carried out by Brakel as part of the approval procedure by the local authorities.

Project Outcomes

- Expertly engineered smoke control systems
- Comfortable day-to-day ventilation
- Environmental sustainability for site
- Approved CDF modelling



info@brakel.com



www.brakel.com

