

The Scalpel

Specification

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Office

386,312 sq ft NIA

Restaurant, Retail and Coffee Shop

11,583 sq ft NIA

396 Bicycle Parking Spaces

18 Motorcycle Parking Spaces

1 Wheelchair Accessible Car Parking Space

Dimensions

- 1.5m planning grid
- Floor to floor height 3,925mm
- Finished floor to ceiling height 2,750mm
- Raised floor zone 150mm
- Structural zone 875mm
- Minimum ceiling zones below beams 150mm

Occupation Density

- 86 sq ft (8 sq m) per person
 - low zone (floors 1-12)
- 86 sq ft (8 sq m) per person
 - mid zone (floors 13-24)
- 129 sq ft (12 sq m) per person
 - high zone (floors 25-35)
- 65 sq ft (6 sq m) per person means of escape

Resilience

- Dual power supply to all areas
- 3 generators provide 100% back up

Air Conditioning

- Low energy cooling provided to suit fan coil units

Washrooms

- Based on zonal occupant densities with a male:female ratio of 60:60 at 80% utilisation

Cycle Shower and Locker Provisions

- 40 showers | 396 lockers

Ventilation

- Fresh air supply 16 l / s / person + 20%

Loading Densities for Cooling

- Lighting 8 Watts / sqm
- Small power 30 Watts / sqm
- Supplementary cooling 350 kW building wide

Plant Locations

- On floor plant rooms
- 2 roof level plant rooms
- Billiter Street annex
- Building basement

Energy Reduction Measures

- BREEAM 2014 "Excellent"
- PV cells on the roof
- High performance glazing to control solar gains and heat loss
- Energy efficient LED lighting
- Daylight sensors and presence detection on internal lighting
- Heat recovery on AHUs
- Variable speed, electronic controlled DC fan coil units
- High performance water cooled chillers
- Sub-metering for energy monitoring of services
- Reduced energy lift installation
- Building planned and orientated to optimise passive shading by the core

Vertical Transportation

- 3 banks of TWIN passenger lifts (22 lift cars): 1,600kg, 21 persons
- 2 x goods lifts: 1 x 4,500kg and 1 x 2,250kg
- 1 x fire fighting lift: 1,000kg, 13 persons
- 2 cycle access lifts: 2,000 kg
- Compliant with BCO 2014 guidance

Benefits of Twin Lifting

- Two lift cars in each shaft, operating separately
- Improved lift efficiency over a double decker system
- Improved inter floor travel efficiency
- Lower energy consumption - only a single car is dispatched during low demand periods

Developer

WRBC Development



Contractor

Skanska UK Limited

Professional Team

Architect

KPF

Structural and Building Engineering Services Consultant

ARUP

Vertical Transportation Consultant

ARUP

Sustainability and BREEAM Consultant

ARUP

