

<b>London Metro Facility Specification</b>	
<b>Gross Floor Space</b>	840 sq metres (9,030 sq feet)
<b>Internal Design Details</b>	The floor space is divided into Facility Management Suites on two floors, consisting of shared and dedicated facilities with their own access controls.
<b>Building Type</b>	The building is a multi-story steel and concrete construction. Ceilings, walls, floors and doors comply at least with RF90 (fire resistance 90 minutes) in data centre areas, telecom rooms, and plant areas.
<b>Maximum Floor Loading Capability</b>	The standard raised access floor loading limit is 300kg per sq metre (Ground Floor) and 250kg per sq metre (First Floor), that can be increased to 1 tonne per sq metre or greater with a suitable secondary steel work sub structure.
<b>Floor Specification and Dimensions</b>	Data centre rooms have a raised access floor and typically have the following dimensions: Raised floors of 550mm with a floor to ceiling clearance of 3.0 metres.

<b>Site Security</b>	<p>The facility is physically guarded 24/7. Visitors are required to sign in at the suite reception.</p> <p>Proximity card access is then provided to the shared and dedicated Facilities Management Suites. There is an alarm system that will respond to doors left open, or to attempted unauthorised access. A record is kept of door openings and all proximity card transactions. Proximity readers control lift access to floors.</p> <p>There is a CCTV coverage for common areas and facilities management suites.</p>
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<b>Fire Detection/Suppression</b>	<p>The data centre area is fitted with a fully addressable 2 stage fire detection system that monitors the under floor, room and ceiling void space. The detectors are a 50% mix of optical and ionisation and are installed split across 2 separate zonal-loops, to meet BS 5839, 6266, 5445, 5588. The data centre area is fitted with a gas fire suppression system to meet BS 5306, 3115 and has LFEDA approval.</p>
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<b>Cooling Facilities</b>	<p>In-room data centre air conditioning is provided at N+1 redundant unit capacity for the declared load. The heat rejection system is chilled water, which utilises dry heat rejection at rooftop level.</p> <p>The in-room units provide a full function, closed control air conditioning system, with cooling, humidity and de-humidification control.</p> <p>Room design temperature: 22 degrees C, plus or minus 1 degree C.</p> <p>Room humidity: 50% rH. Plus 10% or minus 10% rH.</p> <p>External Temperature Design: 35 degree C Dry Bulb.</p>
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**Power**

<b>Electrical Power Supply</b>	<p>11kv three phase electrical supply. Standby Generation is provided at N+N redundancy via diesel engine driven generators.</p> <p>On-site fuel is stored to maintain full load operation for all generator sets for continuous running of 24 hours. Back up deliveries are available from diverse supply depots.</p> <p>Uninterruptible Power Supply System (UPS) is available to provide N+N redundancy for critical computer supplies. Each UPS can support the facility for 15 minutes at full load, whilst automatically switching to alternate supply, or standby generation start-up/synchronisation takes place.</p>
<b>Power Service Definitions - Dual Power</b>	2 power connections derived from a "A" and "B" separate source. UPS and generator supported delivered over 2 routes with 2 circuit breaker protection.
<b>Power Service Definitions - Double Power</b>	2 power connections derived from a single source. UPS and generator supported delivered over 2 routes with 2 circuit breaker protection.

**Power Facilities**

	<b>Docklands</b>		<b>Metro</b>
	<b>North Building</b>	<b>East Building</b>	
<b>Power Route Mains Incomers</b>	2	2	1
<b>Diverse Power Route</b>	YES	YES	NO
<b>Generator Fuel at Full Load</b>	24 HOUR	24 HOUR	24 HOUR
<b>Number of Machines</b>	4	5	1 (+2)
<b>Redundant Machines</b>	N+1	N+1	N+N
<b>Fuel Supply Emergency Contract</b>	YES	YES	YES
<b>UPS Autonomy</b>	15 MINS	15 MINS	30 MINS (per sys)
<b>UPS Redundancy</b>	N+1 on N+N	N+1	N+N

