

ROYAL FREE HOSPITAL LONDON, UK

Project Overview

Project	Off Site Central Sterilisation Department
Location	Enfield London
Application	Hygienic partition and ceiling systems for Healthcare Sterilisation Department
Walls	M100 (NFR & EI 60) M100-200mm installed to 8m high rated at EI60
Doors	MIDDAS Solid & Flush Glazed (NFR and 60 minutes Fire Rating)
Glazing	M100 Flush Glazing (NFR & EI 60)
Miscellaneous	Structural Framework to support M&E services and ceiling systems
Performance	Fire (IE60) Acoustic (47 dB Rw) Structure (Heavy Duty BS 5234 Part 2) Hygienic (crevice free PVC finish suitable for a wide range of cleaning chemicals) Free Standing Structure (Max Load 0.9kN/m2 with clear spans up to 10m)

Background

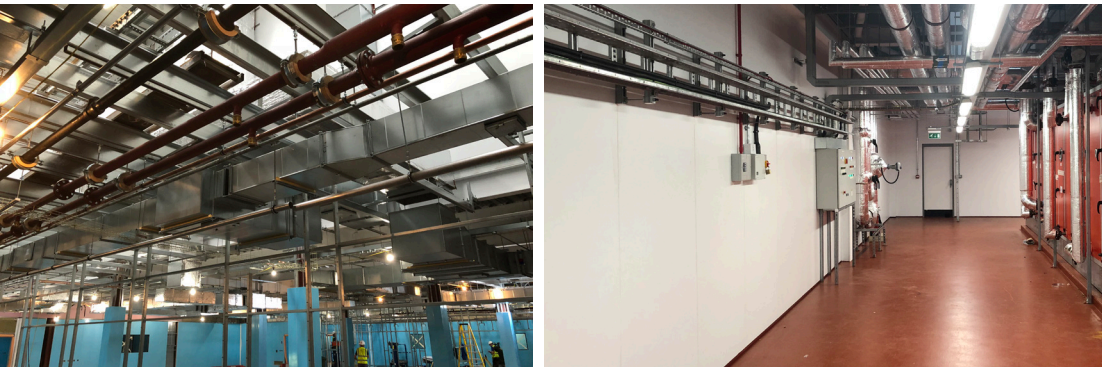
Through the OJEU process, cfes were appointed by the Royal Free Hospital to design, build and maintain a Central Sterilisation Services Department (CSSD) on a brown field site in Enfield to incorporate 11 washer disinfectors, 8 sterilisers, two large trolley washers, 16 Endoscopy Reprocessors and associated drying cabinets.

Brief

cfes required a modular hygienic partition system to create the process and support areas around the key equipment whilst achieving the HTM and fire rating requirements. In addition to the walls, the system also needed to support the distributed services and ceiling systems as no load could be added to the building structure.

Solution

The MIDDAS M100 partition system was selected with associated structural framework. The M100 system met all the hygienic requirements and was modulated around the key process equipment. The M100 severe duty framework provided the fixing locations for the MIDDAS beams which were designed to support the distributed services with clear spans up to 10m, negating the need for secondary steel work. Hygienic ceiling tiles were suspended from the MIDDAS beams in all clean areas with acoustic ceiling tiles fitted in the support areas. The MIDDAS M100 system benefits from full independent fire testing where MIDDAS partitions have been tested with MIDDAS flush glazing and MIDDAS door sets ensuring the complete facility is fully compliant with the fire strategy for the project, backed by comprehensive test data. A further benefit was that the structural framework allowed M&E service to be fitted before the finished partitions and ceilings were simply hung in place with factory formed cut outs to suit the service penetrations.



“The MIDDAS free standing solution with off site manufacture, modulated to meet the process and equipment layout met our requirements in full and MIDDAS were able to design and manufacture bespoke solutions to meet our individual project requirements whilst achieving the performance required for this critical Healthcare facility.”

Rob Doubtfire
MD cfes



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