

ROSALIND FRANKLIN LAB LEAMINGTON SPA, UK

Project Overview

Project	Megalab NHS Test and Trace Facility
Location	Leamington Spa, Warwickshire
Freestanding	20,000m ² CAT2++ freestanding containment labs providing full support of all distributed services
Application	support of all distributed services
Walls	M100 with associated structural framework, pre-formed corners and MIDDAS aluminium coving
Ceilings	Third party ceiling with MIDDAS walk-on service deck (MAX load 2.5kN/m ²)
Doors	Solid (NFR); Flush glazed half/single/double leaf with access control (NFR; FR60); Integration with third party sliding doors
Glazing	Flush glazed vision panels (NFR; FR60)
Miscellaneous	Integration of HVAC and services within MIDDAS partitions Off-site DfMA manufacture for fast-track project delivery to meet tight deadline.
Performance	Freestanding structure (Max load 2.5kN/m ² with clear spans up to 6.5m) Acoustic (47db Rw) Class 0 to BS 476 Parts 6 & 7 Structure (Heavy Duty BS 5234 Part 2)

Background

As part of its response to Covid-19, the UK Health Security Agency (UKHSA) commissioned a globally important 'megalab', the largest of its kind in the UK, to be delivered on a fast-track schedule. The facility would offer world-leading testing and diagnostic capabilities.

Brief

MIDDAS worked with Mace, WSP and HOK to design a freestanding structure as an ideal solution. The project was delivered by Tier 1 contractor Balfour Beatty, with MIDDAS appointed to manufacture the freestanding structures, laboratory partitioning, door sets, vision panels and walk-on service deck. The laboratory lines would be constructed within an existing lightweight steel frame building, so the ability for M&E services to be supported from the MIDDAS structure was a critical factor. This ensured no load was added to the building structure's framework and eliminated the need for any structural modifications.

Solution

MIDDAS provided its M100 bi-panel wall system and associated structural framework as a purpose designed freestanding structure, configured in a variety of specifications. The laboratory environments were designed to operate at negative pressure, with third party MEP and ceiling system supported off the structure. A walk-on service deck provided maintenance access across the complete structure, with built-in edge protection at the perimeter of the facility.



"MIDDAS were identified as our key supplier based on their delivery of previous fast-track freestanding healthcare projects and prefabricated system build solutions. They were able to meet every challenging technical requirement we put forward and still deliver to the super accelerated, time-critical programme of works."

Frank Randles, Business Unit Director, Pharma & Life Sciences
Mace

