

F1 AUTOMOTIVE MANUFACTURER, UK

Project Overview

Project	Cleanroom partitioning for composite manufacturing
Location	UK
Application	Controlled environment for Formula 1 advanced manufacturing
Walls	M100 (NFR) double-sided with recessed base; M100 single-sided lining to cleanroom; plasterboard fitted to M100 framework along corridor
Ceilings	MIDDAS M100 panels and framework integration with third party ceiling
Doors	Single leaf glazed (FR60; NFR); M100 flush lined opening with enhanced framework to support door automation for sliding doors by others
Glazing	Flush glazed screen printed vision panels (NFR); M100 cladding to external window reveals and internal structural columns
Miscellaneous	Bespoke M100 bulkhead boxing; M100 single-sided column casing with associated framework and recessed base assembly
Performance	cGMP cleanrooms Class 0 to BS 476 Parts 6 & 7

Background

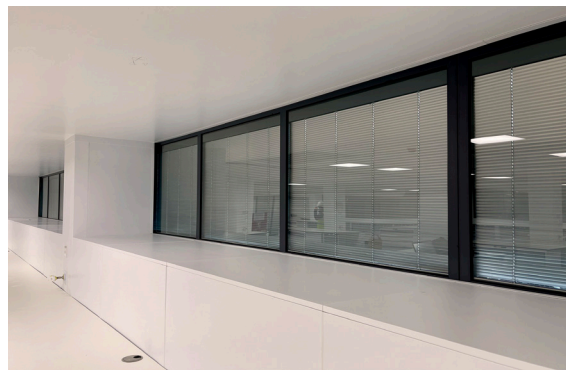
Having previously delivered cleanroom partitioning for an earlier, smaller phase of work at the client's premises, MIDDAS were again specified alongside subcontractor Enbloc to supply partitioning for a subsequent larger cleanroom.

Brief

The existing metal shed building and internal structure needed to be refit for a large cleanroom application. The client wanted a solution that allowed cleanroom partitioning and glazing to integrate with plasterboard walls in the corridor and new ribbon windows being added to the structure's ground level facade.

Solution

MIDDAS designed a solution to suit the external window reveals, fitting bespoke panels around the internal building structure and allowing it to pass through cleanroom envelope. The bespoke panels and associated framework integrated with the client's ceiling and third party doors, with special built-in features including cleverly designed return air ducts and point-of-use service routing for gas, power and data. MIDDAS doorsets and screen printed glazing were finished in corporate colours. Outside the cleanroom along the corridor, plasterboard was flush fitted to MIDDAS framework and glazing to provide a seamless integration and finish.



"MIDDAS designed a flexible solution that aligned well with the client's high standards for finishes within their projects. The team were able to design M100 solid and glazed panels that integrated seamlessly with the plasterboard-faced corridor and existing single glazing."

Agnes Phol, AIA, Team Manager
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