

NATIONAL FORENSICS LABORATORIES, IRELAND

Project Overview

Project	National Forensics Science Laboratories
Location	Blackweston, Kildare, Ireland
Application	M100 cleanrooms for a new suite of clean controlled environments
Walls	M100 (NFR) double-sided with recessed base; M100 single-sided lining to cleanroom; plasterboard fitted to M100 framework along corridor
Ceilings	N/A
Doors	Non-fire rated with large format vision apertures, including fully integrated maglock, armature plates and drop down seals within MIDDAS door frame and leaf. Integrated traffic access switches in frames
Glazing	Fully flush double glazed non-fire rated vision panels
Miscellaneous	Factory formed cut outs for services and equipment penetrations including transfer hatches and grilles
Performance	0.9kN/m ² services loading, Class 0 spread of flame, unclassified cleanroom finishes

Background

The new Forensic Science Ireland (FSI) laboratory building is located on the OPW Campus in Blackweston, Co. Kildare. A critical part of the new FSI facility is the FSI Evidence Analysis labs, a purpose-built suite of clean controlled environments to include preparation and search rooms, examination rooms, SEM and PCR.

Brief

The labs had to be designed and constructed in accordance with the requirements of FSR-G-208:2015 guidelines which refer to ISO clean controlled environment standard (ISO 14644-1) ISO 8 in the Ante-Rooms and ISO 7 in the inner laboratories. A critical part of this new facility was Evidence Analysis labs which were a purpose-built suite of clean controlled environments to facilitate the identification, retrieval, amplification, testing and analysis of DNA based evidence.

Solution

The design solution was based on our M100 modular cleanroom system manufactured to provide clean, controlled environments. This ensured that all third-party components were integrated seamlessly with our M100 system to form a continuous airtight room envelope to each cleanroom space, with robust and durable easily maintainable finish compatible with frequent wash-down and periodic decontamination with VHP.



“The MIDDAS M100 wall system was selected to deliver on the facilities stringent requirements in terms of airtightness, cleanability, surface finish, robustness, acoustics, and integration of services.”

David Hallinan
Asgard Cleanroom Solutions



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