Guardtech group

CLIENT CASE STUDY

PHARMA MANUFACTURING

Grade D & CNC

THE CLIENT

BDD Pharma – combining drug delivery expertise and clinical capabilities, BDD accelerate product development pipelines, enable life cycle management and create new value-added products. BDD uniquely combine onsite CRO and investigative site activities to offer clients a comprehensive integrated solution for conducting early phase clinical trials. Recognising that one size does not fit all, BDD specialise in providing responsive, flexible, and innovative solutions for drug delivery and clinical trials to their clients.

Pharmaceuticals

20+/-3 C

300m²

THE BRIEF

Guardtech Cleanrooms were engaged to construct a GMP facility to expand BDD's manufacturing capabilities and clinical testing services, supporting research and development for small and medium-sized Pharmaceutical companies. The project also included an upgrade to BDD's existing Radiopharmacy provision at their premises in Glasgow BioCity.

"This facility will help improve patient health sooner..."

Stephen Clarke, Head of Quality at BDD, commented: "This new additional facility provides a wonderful opportunity to generate even quicker reliable data on the safety and effectiveness of these newly developed medicines. That in turn will lead to new medicines getting into patients quicker and so improve patient health sooner, which benefits all of society. The outcome of the recent UK Government Inspection provided a high level of independent confidence that we are doing all the correct things, in the correct way, consistently."

Stephen Clarke
BDD Head of Quality

bdd

Guardtech cleanrooms

CLIENT CASE STUDY

PHARMA CLINICAL TESTING

THE TECH SPECS

A controlled environment designed, installed, cleaned and commissioned by Guardtech built to the following specification:

◆ **Structural:** GT Shell Pro wall panels (cleanroom), GT Shell Plus wall panels (lab), GT Lid Pro ceiling panels (cleanroom), GT Lid Lite (lab), GT Access Plus single and double doors, GT Deck Plus pre-formed cove, wall to floor, laid under vinyl.

◆ **Electrical:** 13-amp double sockets and CAT6A data sockets in surface-mounted trunking (cleanroom) and PVC trunking (lab), GT Lux Plus LED lighting panels providing 500 lux on average at bench level.

◆ **Mechanical:** GT Flow Plus H14 HEPA Fan Filter Units with G4 Pre-Filters providing air change rates of up to 20 per hour, GT Air Pro Upflow Unit with isolated to plenum to Radiopharmacy room.

◆ **Monitoring:** GT Scan Max 21 CFR Part 11-compliant Digital LED Environmental Monitoring panels displaying temperature, humidity and pressure reading from in-room installed probes. All fed back to centralised 7" touchscreen with alarms programmable to any measured element.

◆ **Furniture & Equipment:** Grade 304 stainless steel active transfer hatches, Trespa-topped steel framed island benching, sink cupboards, single bowl with drainer inset into Trespa two-door cabinet, short pre-rinse tap, Trespa two-door cupboards, Trespa sink cupboards, two-door cupboard double sink, stainless steel one-person wall-mounted sensor sink, stainless steel, electropolished stainless steel full-length mirror in frame, Trespa benches, Trespa three-cupboard + multi-drawers, Trespa under bench four-drawer unit, stainless steel trolley, stainless steel storage rack, grade 304 stainless steel wall-mounted coat hook rack.

THE CHALLENGES

Transfer Window: The Guardtech Cleanrooms ModSquad had to utilise extra-large 1200mm panels in the build – but were restricted by the layout of the host building. Therefore, the Install Team had to remove windows from the facility and develop an innovative transfer system in order to ensure all the materials could be transited.

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CLIENT CASE STUDY

RADIOPHARMACY

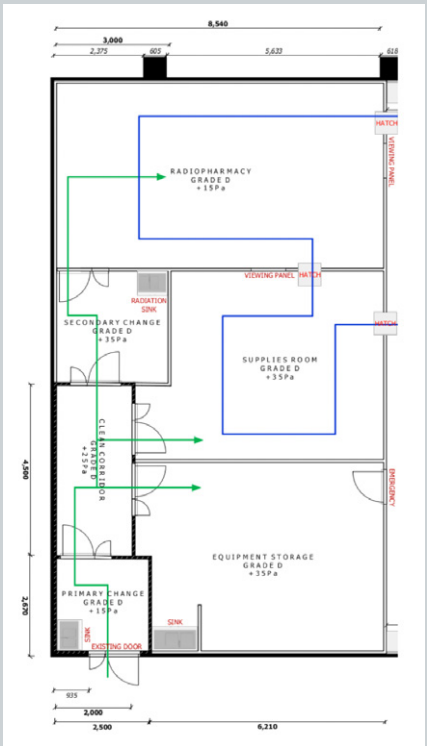
Cut Above: The Install Team try whenever possible to arrange for all panels to be pre-cut for projects, but on this build Installation Manager Miles Gardner and the team had to cut all panels to size on site.

This presented a number of challenges, in terms of time taken with the schedule and keeping mess to a minimum, but the team worked diligently to ensure there was no hold up and that the site was always as in as clean as state as possible.

The site is located at Glasgow MediCity – where a lot of companies operate using cleanrooms. As a result, security and clearance was tight, meaning access and organising deliveries was challenging. But this is a common difficulty the team face – and they ensured there were no hold-ups as a result.

Fire Fight: The build was relatively straightforward, although there were complications caused by the mix of regular cleanroom panels and fire-rated panels. The client had to relocate a fire exit in the laboratory area and extend it for operator safety. Due to the composition of the fire-rated panels, they can be a lot trickier to install, but the team pulled together and ensured the were no delays caused by this challenge.

Hang It In The Louvre: The main room was served with a bank of six FFUs connected to a 3kW fan coil unit, fed by fresh and recirculated air. The team implemented our standard louvre grilles and overcompensated on fresh air to ensure that the system always has enough, eliminating the need to close the return down and decrease the room pressure. This just means that at every point of return, we have an adjustment. Simple but effective airflow management.



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GMP PHARMA FACILITY

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THE RESULT

Stephen Clarke, Head of Quality at BDD, commented: "This new additional facility provides a wonderful opportunity to generate even quicker reliable data on the safety and effectiveness of these newly developed medicines. That in turn will lead to new medicines getting into patients quicker and so improve patient health sooner, which benefits all of society.

"The outcome of the recent UK Government Inspection provided a high level of independent confidence that we are doing all the correct things, in the correct way, consistently."

Guardtech Group Installation Manager Miles Gardner added: "It was a real pleasure to work with such a dynamic and interesting client in the heart of a vibrant Glasgow MediCity community.

"There were a few challenges to face along the way, but the whole Guardtech Group team pulled together beautifully to ensure that every hurdle we encountered was overcome in style. Thank you to everyone involved in the Design and Installation Teams and beyond for your support."