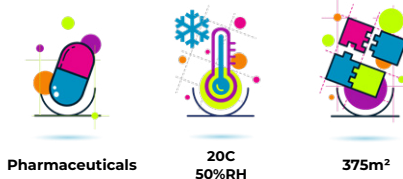




THE CLIENT

Leading suppliers of combined robotic and automation solutions for closed loop medications and medical devices traceability in the healthcare industry. The client's unique and fully integrated solutions have and will greatly contribute to ease healthcare providers' growing pressures to simultaneously increase patient safety and reduce therapy errors, reduce waste and controlled substance diversion, contain costs and diminish the gap between rising patient volume/acuity and scarce medical staff.



Pharmaceuticals

20C
50%RH

375m²

THE BRIEF

The client stated in their URS that they required a new GMP Grade D controlled environment for Pharmaceutical secondary packaging finishing. Our proposal included additional restroom (toilets) on a mezzanine floor and gas compressors for the packaging machines as part of a turnkey facility fit-out.



“A platform to deliver elite healthcare...”

Guardtech Group Project Manager Arran Williams said: “I’d like to pay tribute to the Cleanroom Solutions team that worked on this project, as well as the wider Guardtech Group family for their part in delivering this fantastic GMP facility installation.

“From Commercial to Design, Ops to Installation, and the tireless procurement and office teams, we put together a brilliant, unified effort to pull this one off.

“This new facility is set to give the client the platform to deliver world-class healthcare provision and we are delighted to have played a small part in helping to improve patients’ lives.”

Arran Williams
Guardtech Group
Project Manager



Cleanroom
solutions



Cleanroom
solutions

PHARMA PACKAGING



GT Shell official panel system partner:



Partner

THE TECH SPECS

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

◆ **Structural:** 195sqm Mezzanine – fire boarded with edge protection, GT Shell Pro 60mm Kingspan Quadcore insulated wall panels, Cleansafe 120 micron coated on all panels for GMP zones, GT Clad Max Kingspan Cleansafe cladding, Air Return Integrated hollow core with low level grille for transit back to duct spigot, GT Lid Pro 50mm Kingspan Quadcore insulated ceiling panels, Cleansafe 120 micron coated.

GT Deck Max Pharma grade anti-microbial vinyl flooring system (GMP areas), GT Deck Plus ESD vinyl flooring with copper grounding tape, coved and capped, GT Access Max Kingspan single and double doors, GT Access Pro Kingspan (door and half), GT Rise Pharma rapid roll doors on 5-way interlock with push button activation, plumbing works in changing room area,

GT Shell Max double glazed window units, GT Strip Max PVC softwall curtain acting as partition in MAL area.

◆ **Electrical:** GT Lux Pro LED lights flush-mounted in ceiling panel, 13amp double sockets wired back to distribution boards, 32amp double sockets wired back to distribution boards, 3-compartment curved profile trunking around room perimeter and columns, RJ45 ethernet sockets fed back to network switch, smoke heads in each room feeding back to fire alarm panel, door interlock doors on electro-magnetic interlock system.

◆ **Mechanical:** GT Air Max bespoke Air Handling Unit (AHU) with humidifiers and chillers with heat recovery and trim heaters, GT Flow Max H14 HEPA Fan Filter Units (FFUs), Vacuum Regenerative Desiccant Dryer, Variable Speed Compressor, Fixed Speed Compressor, Wet Vertical Air Receiver, 1 micron Parker AOPX040 Filters, Parker OVR300 Oil Vapour Removal Unit, Sterling CSR150 Oil Water Separator.

◆ **Monitoring:** GT Scan Pro digital touchscreen displays with alarms (non-GMP Annex 11 compliant) sensors, temperature, humidity & pressure probes feeding back to displays, AHU controller digital display on the

AHU for setting target temperature, humidity and fan speed.

THE CHALLENGES

Tight fit: The Cleanroom Solutions Design Team had to work their magic when it came to the ceiling arrangement for this GMP facility. Due to a combination of the required internal ceiling height, host building height and ceiling grid depth, we were left with an extremely tight ceiling void to accommodate the ductwork.

However, thanks to an expertly plotted arrangement, supported by ACC software and skilled engineers, we were able to come up with a solution that met the requirements for this Grade D Packaging controlled environment.

Office supply: Having recently supported a number of clients with civils works for their large-scale, turnkey projects, the Cleanroom Solutions Installation Team once again demonstrated their flexibility on this build – installing dedicated offices, a meeting room, kitchen and toilet blocks (on two floors).

Continued on next page

PHARMA PACKAGING



This was the first time we'd done so utilising cleanroom panels and the end result was a fantastic series of additional support areas that showed off our willingness to deliver everything we can to meet our clients' needs.

Empowering: Because the client was not based in the UK, and indeed not a native English language speaker, they were not up to speed with UK building law and required additional support from the Guardtech Group in developing a power upgrade for the facility.

The original host building could only cater for 100amps, but 300amps were required to support the client's process.

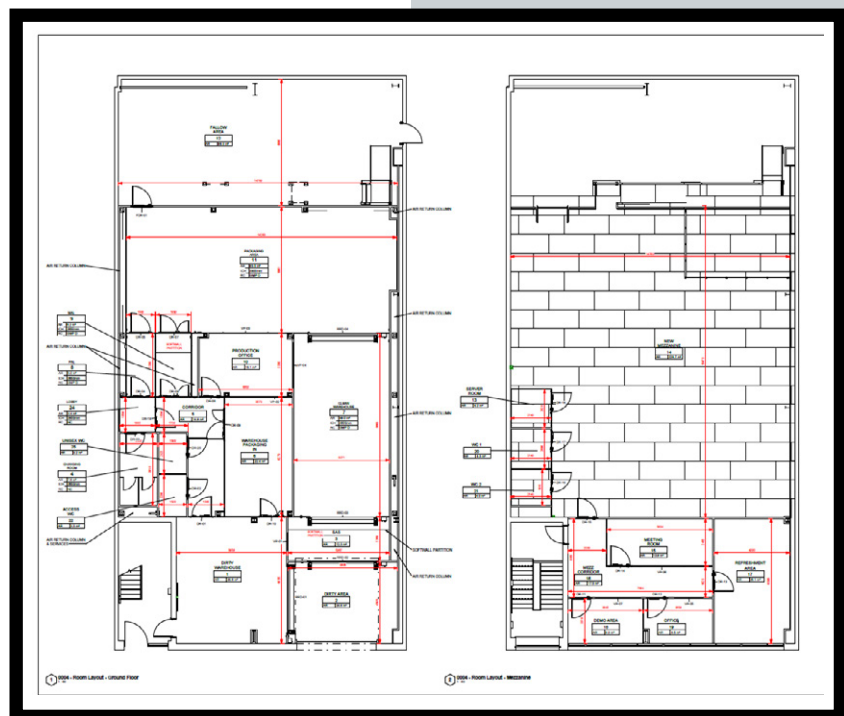
Therefore, the Cleanroom Solutions team, back by the wider Guardtech Group team, helped to facilitate the upgrade, working with a local energy provider to find a solution.

Safety first: Despite being known principally for cleanroom construction, the team demonstrated our trademark versatility again on this project when it came to the building's safety requirements, assisting with the installation of access con-

trols and an intercom system, an intruder system, a fire detection system and CCTV.

Compressed air: The team were required to install a compressed air system on this project. We worked with a supplier effectively

to develop a 'smart system' boasting 100% redundancy – running compressors on cycles to be more efficient. As a result, there will never be one unit working harder than the others – increasing the longevity and operational performance of the system.



PHARMA PACKAGING

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THE RESULT

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