



## THE CLIENT

GW Pharmaceuticals – a world-leading firm in the field of plant-derived cannabinoid therapeutics, drug discovery and development processes. GW developed the world's first prescription medicine from the cannabis plant, which is now approved in more than 25 countries for the treatment of spasticity due to MS.

## THE BRIEF

The client was developing a new manufacturing line which would begin as a small-scale R&D proof of concept and, if successful, transfer to larger-scale manufacturing. During this transition period they required a small facility but had no space remaining in their existing building. They identified an area of land in which a modular building could be constructed to house a Grade D cleanroom.



Pharmaceutical



21°C +/- 2°C



60m<sup>2</sup>



## ABOUT US...

From About Us on [gwpharm.co.uk](http://gwpharm.co.uk)

"GW is developing an oral formulation of purified cannabidiol (CBD) which has been approved by the US Food and Drug Administration for two rare and severe early-onset, drug-resistant epilepsy syndromes.

"GW successfully developed the world's first prescription medicine derived from the cannabis plant, which is now approved in more than 25 countries outside of the US for the treatment of spasticity due to multiple sclerosis."





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## THE TECH SPECS

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

- ◆ **Modular building:** Two connected gable bay modules, steel-framed structure, plastisol exterior clad with rainwater goods.
- ◆ **Structural:** [GT Shell Plus PIR Wall Panels](#), [GT Lid Plus Ceiling Grid & Tiles](#), [GT Access Pro GRP Doors](#), [GT Deck Plus Vinyl Floor Capped & Coved](#).
- ◆ **Electrical:** 13amp double sockets flush-mounted, three-phase power.
- ◆ **Mechanical:** Filtration provided by H14 HEPA filters powered by fan filter units.
- ◆ **Furniture:** Stainless steel stepover benches, stainless steel sink unit.

- ◆ **Monitoring:** Environmental monitoring system measuring pressure, temperature and humidity.



## THE CHALLENGES

**Space maximisation:** In order to minimise impact on footprint, Guardtech installed a modular wall-panel system that incorporated return air ducts. This allowed the correct volume of air to transfer back to the plenum without the requirement of in-room return air columns or unsightly external ductwork.

**Bespoke service plate:** To facilitate the client's process equipment in the most clean manner possible, a bespoke stainless steel plate was manufactured incorporating all service connections for power, compressed air, gas services and water.

## THE RESULT

Guardtech Commercial Director Mark Wheeler said: "This job required some creative thinking from our designers and we were so pleased with the result of the return air ducts, which ensured the space was used effectively."