



## THE CLIENT

Klira – a dermatologist-led skincare brand, offering personalised, prescription-strength formulations tailored to meet their clients’ specific needs. Each treatment is freshly compounded in their London lab, combining potent actives with expert care to deliver clinically proven results, healthy skin renewal and sustainable, science-backed skincare for every individual.

## THE BRIEF

The client planned to bring a compounding process for dermatological topical creams in-house and required a classified cleanroom. In our pre-design discussions, it was decided that GPHC compliance was the most critical factor in determining a cleanroom solution. After some well-executed collaboration between Guardtech and the client, it was decided that an ISO14644 Class 8 Isopod Shell hardwall module with temperature control for operator comfort only would be the ideal solution.



Cosmetics



Temperature:  
Operator Comfort



30m<sup>2</sup>



**“A winning solution that delivers on requirements...”**

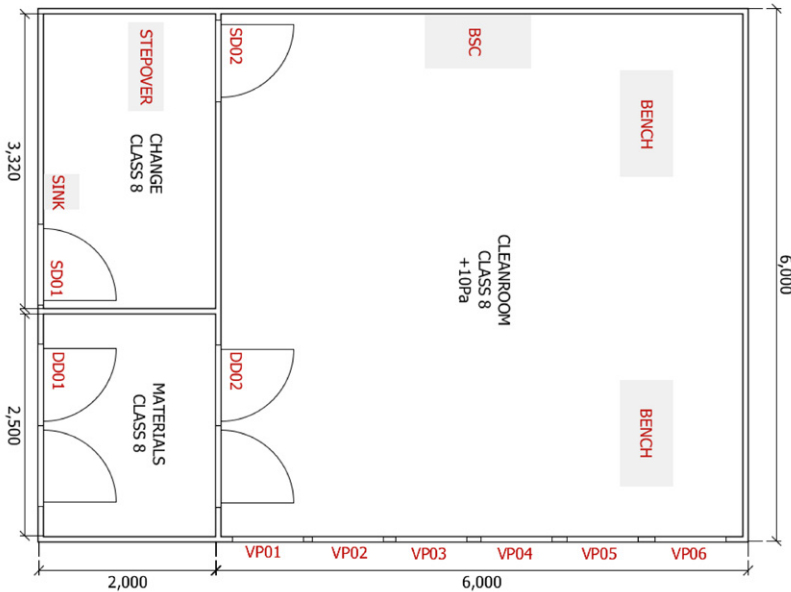
Isopod Rapid Cleanrooms Project Manager Elliott Pearce said: “Whilst this was a relatively straightforward Isopod Shell installation, the team worked diligently to ensure it was designed and installed in rapid time and on budget.

“This is another fantastic example of the Guardtech Group Commercial Team listening to the client’s requirements and then working collaboratively with them to determine a winning solution that delivers everything their process requires in a cost-effective yet high-performance manner.”

**Elliott Pearce**  
Isopod Project Manager



**Isopod**  
rapid cleanrooms



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## THE TECH SPECS

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

◆ **Structural:** 60mm aluminium box section frame, GT Shell Lite 50mm PIR insulated panels with 25-micron RAL9003 Powder Coat, External Panels – hollow core and low-level exhaust grille, GT Lid Plus 50mm PIR insulated panels with 25-micron RAL9003 Powder Coat, GT Deck Lite vinyl jigsaw tile flooring system, GT Access Plus single doors with vision panels, GT Access Plus Double Doors with vision panels.

◆ **Mechanical:** GT Flow Plus Fan Filter Units (FFUs) with H14 HEPA terminal media achieving up to 20 air changes per hour (ACPH).

◆ **Electrical:** GT Lux Plus LED lighting panels achieving 500 lux – flush-mounted in ceiling panel, 13amp double sockets in three-compartment curved PVC profile trunking around room perimeter, distribution board with sub boards connected to main.

◆ **Monitoring:** GT Scan Helic magnetic gauges measuring pressure.

◆ **Furniture:** ISOstep Plus 304 stainless steel stepover bench, ISObench Plus 304 stainless steel workbench, ISO Move Pro grade 304 stainless steel dual handle cleanroom trolley, Grade 304 stainless steel floor standing ISOSink Plus utility sink unit, mobile hand wash station, ISOwaste Plus bin ring bag holder, ISOgown Lite wall-mounted coat hook rack, manual soap dispenser, 4-compartment PPE dispenser, paper hand towel dispenser.

## THE CHALLENGES

Whilst this was a fairly straightforward Isopod Rapid Cleanroom installation, because it was a bespoke configuration, there were still some interesting aspects of the design and construction that gave our teams the chance to flex their creative muscles on the project and show their flexibility and adaptability on site.

◆ **Tight schedule:** One of the major selling points of an Isopod Rapid Cleanroom is the fact that clients can have world-class modular cleanrooms in incredibly tight time-

frames, relatively speaking. But this project was even tighter than usual – with the client requiring two key milestones being adhered to: a visual inspection of the lab midway through the installation, as well as the lab being fully operational in rapid time.

Fortunately, the Isopod team now have a wealth of experience in turning around these modules in quick time, and so the Installation Team worked diligently and professionally to ensure every aspect of the project was taken care of as quickly as possible, including fitting a Guardware ISOSink Plus utility sink that had to be plumbed into the Isopod via the host building.

◆ **Sparks flying:** The client put through a last-minute request to change the equipment they'd be using in the Isopod – with addition of a lab dishwasher that would require a 30amp supply. Therefore, a distribution board was required to cope with the added power requirements. Many contractors would've been thrown by the late notice of such a major change, but the Guardtech Group's in-house Electrical Services Team were able to devise a quick solution to ensure the client's new process plans could be seamlessly incorporated into the existing design.

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# COSMETICS ISOPOD SHELL



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Cost-effective pod: Because the client was on a tight budget – yet still required a cleanroom solution to achieve ISO8 classification and meet GPHC compliance – the Guardtech Group Commercial Team made some changes from standard Isopod designs to keep costs down.

The Isopod framework was changed to aluminium and electro-magnetic door interlocks were removed to offer intelligent cost-saving measures. Whilst this isn't our preferred method of installation process-wise, as operators can open both Change and Materials doors at the same time, any potential issues can still be mitigated with training and good practice. Temperature control was also removed from the design, as operator comfort level was deemed sufficient and the Design Team ascertained that the host building would be able to support this.

## THE RESULT

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**Project Manager Elliott Pearce**  
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**to ensure it was designed and installed in rapid time and on budget.**

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