

CRITICAL SYSTEMS ENGINEERING



Atec
Engineering Solutions

THE CLIENT

Delivering specialist support solutions for high reliability and safety critical products and systems, Atec are a global market leader in the field of Product Lifecycle Support – including Obsolescence management and the development of evolutionary solutions for mission critical systems. Atec have more than 50 years’ experience in the design, manufacture and support of complex electronic and electromechanical equipment used in the global, Defence and Industrial Power Generation industries.



Critical Systems Engineering



Ambient



12m²



THE BRIEF

The Guardtech Group were engaged to provide a rapid controlled environment solution to support the client’s operations after Atec initially utilised Guardtech’s online Configurator tool to consider the type of quick-assembly solution that would meet their needs.



“High quality cleanroom at a fraction of the cost of a modular...”

Isopod Rapid Cleanrooms Manufacturing Manager Michael Burton said: “This Isopod was initially booked as an ISO8 build, but it’s easily achieving ISO7 and is a really fantastic example of a robust, high-quality rapid cleanroom at a fraction of the cost of a larger modular.”

Michael Burton
Isopod Rapid Cleanrooms
Manufacturing Manager

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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:** Aluminium 50 x 50 x 3mm Box Section frame with Grade 304 stainless steel connectors, GT Shell Plus QuadCore panels, GT Lid Plus panelled ceiling, GRP I-Beam above frame, GT Access Lite powder-coated steel door.
- ◆ **Mechanical:** GT Flow Plus Fan Filter Units (FFUs) with H14 HEPA and G4 Filters achieving 45 air changes per hour (ACPH).
- ◆ **Electrical:** GT Lux Plus surface-mounted LED lighting achieving 1000 lux, small power outlets surface-mounted.

THE CHALLENGES

Better than expected: This was a standard product from the Isopod range and the client was very accommodating, contributing to a

smooth install. The cleanroom was designed to achieve ISO8 classification yet passed with flying colours at 45 air changes per hour, meaning it comfortably reached ISO7.

Ship shape: Manufacturing Manager Michael Burton opted to utilise small grilles usually found on the side of boats for the Isopod dampers, as they perform the same function as those we've come across previously but are more attractive and just as efficient.

THE RESULT

Isopod Rapid Cleanrooms Manufacturing Manager Michael Burton said: "This Isopod was initially booked as an ISO8 build, but it's easily achieving ISO7 and is a really fantastic example of a robust, high-quality rapid cleanroom at a fraction of the cost of a larger modular."

