

# AUTOMOTIVE HARDWALL ISOPOD



## THE CLIENT

ContiTech – the client use their development and material expertise for products and systems made of rubber, polyamide, metal, textile, and electronic components to combine these with individual services. ContiTech also offer functional and design-oriented living solutions and are always searching for customer-friendly and environmentally-friendly answers – going well and truly beyond its roots as a producer of rubber products.

## THE BRIEF

The Guardtech Group were engaged to provide a rapid controlled environment solution to support the client's Automotive fluids operations that utilised a variety of laboratory equipment, including Cleanliness Cabinets, in El Jadida, Morocco.



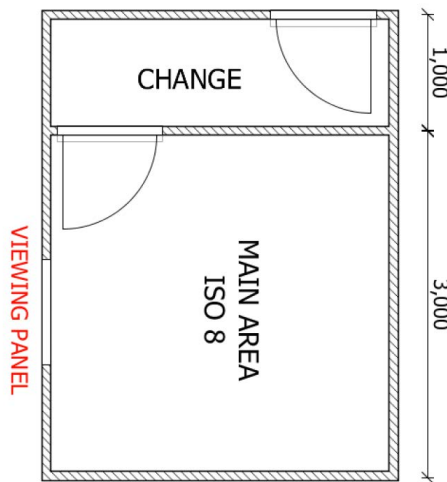
Automotive



21+/-2



12m<sup>2</sup>



## “A pleasure to work with...”

Isopod Manufacturing Manager Michael Burton said: “The client, who were a real pleasure to work with, needed to make several tweaks to their Isopod design along the way, and so we did everything we could to ensure we delivered the solution they required. “They needed to ensure certain temperature conditions were met, and because we had an open channel of communication, we realised that our FFUs could pull in air from the host cleanroom that would meet the needs of the client without adding any additional HVAC at our end, therefore helping to keep costs down.”

**Michael Burton**  
Isopod Rapid Cleanrooms  
Manufacturing Manager



**Isopod**  
rapid cleanrooms

# AUTOMOTIVE ISOPOD



🏠 Unit C The Brocks,  
Homefield Rd,  
Haverhill, CB9 8QP

☎ 0330 113 0303

✉ sales@guardtech.com

🖱 www.guardtechgroup.com

## 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, GT Access Lite powder-coated steel doors, stainless steel dampers.

◆ **Mechanical:** GT Flow Plus Fan Filter Units (FFUs) with H14 HEPA and G4 Filters achieving 57 air changes per hour (ACPH).

◆ **Electrical:** GT Lux Plus surface-mounted LED lighting achieving 500 lux, small power outlets surface-mounted.

## THE CHALLENGES

**Great communication:**

This began life as a standard product from

the Isopod range, but as the build progressed, the Isopod team needed to maintain an open, positive working dialogue with the client to ensure they received the solution that perfectly suited their requirements, as well as keeping costs down wherever possible.

**New heights:**

An adjustment had to be made to the Isopod's height after learning the client intended to incorporate a Cleanliness Cabinet in the cleanroom – this saw the Isopod team include a step-up in the ceiling by 150mm.

As well as the height issue, the team needed to cater for the additional power required to operate the FFUs, lighting and equipment and so extra 13amp international plug sockets were added to the design.

**Foreign shore thing:**

As well as the build itself, positive communication with the client extended to matters overseas, where logistical arrangements were made to ensure the safe delivery and collection of the Isopod from the UK to Tangier, as well as sending a two-person Guardtech Group team to attend the client's facility and install the Isopod.

## THE RESULT

**Isopod Rapid Cleanrooms Manufacturing Manager Michael Burton said:** "The client, who were a real pleasure to work with, needed to make several tweaks to their Isopod design along the way, and so we did everything we could to ensure we delivered the solution they required."

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**Guardtech**  
group