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THE CLIENT

BHE – a leading provider of RF and microwave solutions for mobile operators, government, Defence, Space, and Aeronautics organisations worldwide. With their innovative products and expertise, BHE are committed to connecting the world and enabling seamless communication for critical missions and everyday life.

THE BRIEF

The Guardtech Group were engaged to provide a rapid Isopod Shell hardwall controlled environment solution to support the client's cable assembly operations in Budapest, Hungary.

The client required a high level of classification (ISO6) and by opting to utilise an Isopod Rapid Cleanroom in a tight host room, it would save them from having to undergo substantial redevelopment works on their existing premises.



Electronics

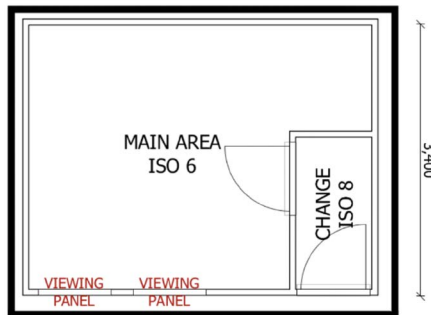


Ambient



15m²

3,400 1,000



The Isopod situated at the client's premises in Budapest.

“The Install team did a great job..”

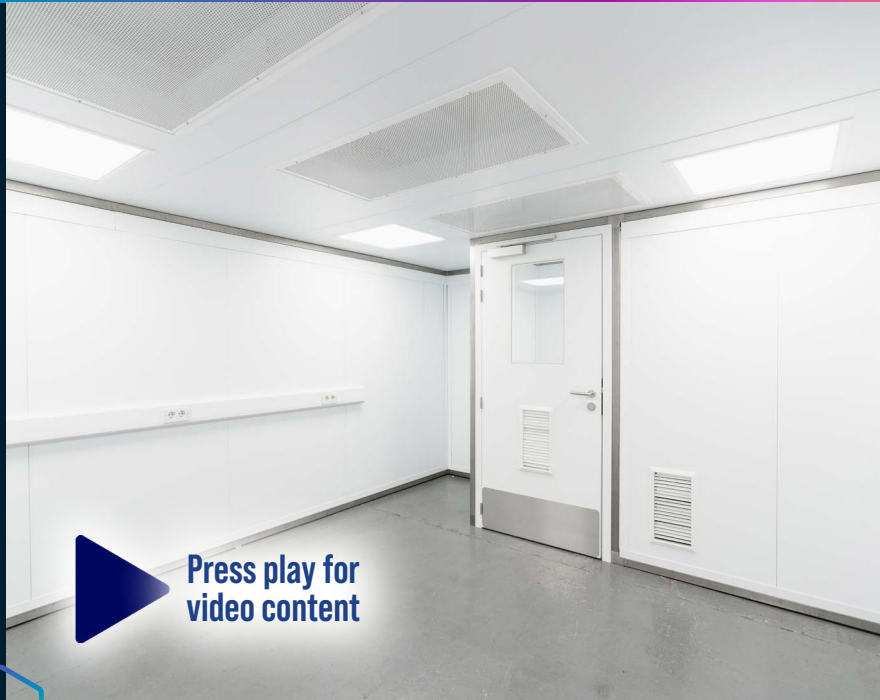
Gabor Geczy, Project Manager for BHE Bonn Hungary Electronics Ltd, said: “I would like to thank the Guardtech team for the quick work and the flexibility during this Isopod cleanroom procurement, we appreciate that.

“The install team did a great job – we tried to help them in any way we could and they appreciated that, too. A great co-operation here in Budapest resulted in an Isopod Rapid Cleanroom which is now working great.”

Gabor Geczy
BHE Bonn Hungary
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:** Grade 316 stainless steel 50 x 50mm 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, brush plates (for cable feeding).
- ◆ **Electrical:** GT Lux Plus surface-mounted LED lighting achieving 1000 lux in the ISO6 space and 500 lux in the ISO8 Personnel Air-lock (PAL), European Schuko small power outlets in three-compartment PVC dado surface-mount trunking.
- ◆ **Mechanical:** 3 x GT Flow Plus Fan Filter Units (FFUs) with H14 HEPA and G4 Filters achieving up to 100 air changes per hour (ACPH).
- ◆ **Furniture & Equipment:** Grade 316 stainless steel transfer hatch.
- ◆ **Monitoring:** GT Scan Lite analogue environ-

mental monitoring magnehelic gauge system reading temperature and pressure.

THE CHALLENGES

Not all plane sailing: Upon delivering and setting up the Isopod in the host room in Budapest, the team soon realised that one of the

Fan Filter Units was faulty and required a new part to get it up and running again. Isopod Installation Engineer Vinnie Burton flew back to the UK, retrieved the necessary part and return to Hungary, all within 24 hours, to ensure the client received the best possible service. A great example of how the Guardtech Group are always prepared to go the extra mile for our customers.





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Share the load: Because this Isopod was slightly longer in length than our base models, Manufacturing Manager Michael Burton was concerned with potential sagging in the middle of the longer frame spans. He therefore added reinforcements in the middle of the steel beams to ensure the Isopod remained as robust as expected.

“This unit features some interesting modifications...”

Grille deal: The Isopod needed to achieve ISO6 classification – quite a tall order for such a relatively small unit. As a result, Burton added extra return air grilles with dampers to the doors and wall panel system to ensure enough air could move around the space to meet the standard,

Brushing up: The client wanted to feed cabling into the unit and Burton had the bright idea of installing

nifty brush plates in certain positions to allow easy access ports which wouldn't compromise the air change rates or process room cleanliness.

THE RESULT

Gabor Geczy, Project Manager for BHE Bonn Hungary Electronics Ltd, said: “I would

like to thank the Guardtech team for the quick work and the flexibility during this Isopod cleanroom procurement, we appreciate that.

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