

LAF UNITS & DUCTED FUME HOOD



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THE CLIENT

One of the leading suppliers and system integrators of support equipment for military and commercial electro-optical sensors in the world. With decades of experience in their focus markets, the client brings real world experience to assist customers in meeting the demands of today's military and security equipment programs.



Defence
& Optical



21+/-2C
40-55% RH



140m²



THE BRIEF

The client wanted to adopt a new production process within their facility, which is best suited to controlled and classified conditions. After successfully working with Guardtech on a previous cleanroom build, the client asked Guardtech to consult on the design and to formulate a proposal for the new cleanroom, including a comprehensive Guardware equipment fit-out.

“The final product was exceptional..”

The Operations Director for the client, said: “Guardtech worked with us in a collaborative way throughout the process to ensure that the project came in, on time and on budget.

“The final product was exceptional and was constructed in such a way to cater for our individual special requirements for the manufacture of our optical assemblies.”

Operations Director
for the client



Guardtech
cleanrooms



Guardware
cleanroom hardware

ELECTRO-OPTICAL SENSORS



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THE FIT-OUT

Guardware included 5 Trespa benches with grade 304 stainless steel support stands and a contamination control mat to suit the evolving operations for the client. To drive efficiencies, a ducted fume cupboard and 5 x H14 HEPA filter laminar flow workstations were also included. This provided optimal air quality and product protection for processes, product and personnel. Environmental protection and the requirement to expel chemicals from the processing space when dealing with electro-optical sensors also formed part of the Guardware provision for this project.

Scrubbing up: In original planning, we would have opted for a Pure scrubber to extract the potentially harmful chemical from the large air flow space. However, for the specific chemical in question this was not possible, so the room was equalised and rebalanced.

Significant post-HVAC design work ensured

that a ducted fume could be accommodated, solving the issue. Great integrating: to complete the build, a number of different trades were required on site at any one time. Ranging from HVAC operatives, ducting operatives, flooring specialists, panel installers and electrical engineers.



Utilities such as nitrogen gas, compressed air and vacuum were also involved in the process to ensure precision in the installation, readying the environment for world class technology. Guardtech and Guardware teams catered to various needs across this project to keep efficiencies harmonious. New faces to the team embraced the Guardtech way quickly with aplomb, exhibiting their degree of skills in

installing an intelligent ceiling grid system too.

Guardtech Cleanrooms Project Manager Craig Druce said: "Thanks to everyone involved in this project – the Design and Installation teams worked seamlessly to deliver a great build. We understand our client's decades of experience are being thrust forward in a streamlined, innovative and precise build for their needs.

"We had to rework some of the plans due to an issue with extraction, but all of the parties involved came together brilliantly to devise a winning solution.

"It was a pleasure for Guardtech to return to a place where we've previously installed a modular cleanroom and I hope we get the chance to return one day in the future as they evolve."

Carl Miller, Operations Director for the client, said: "Guardtech worked with us in a collaborative way throughout the process to ensure that the project came in, on time and on budget. The final product was exceptional and was constructed in such a way to cater for our individual special requirements for the manufacture of our optical assemblies."