



D E F E N C E S Y S T E M S

PROFESSIONAL SOLUTIONS

Structural Blast Retrofits



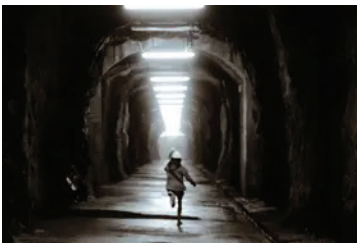
Using proprietary HFRP composite material panels, Ortech hardens and reinforces existing structures, including windows, doors and glass elements, as well as retrofitting them with safe rooms, to create a high level of protection from blast, shock waves and fragments. Specializing in technical integration, Ortech's team carefully choose and aggregate the different components into a fully functional system. Made from a unique composite material containing fiber-reinforced plastic, these innovative panels provide an exceptionally strong and lightweight coating. HFRP panels protect against blast hits, fragmentation and ballistics.

Hazardous Material Container Protection

The patent-pending Protector provides comprehensive protection from hazardous material containers, pipes, pumps and processing facilities, while enabling continuous operation. Constructed with advanced armored steels, Protector shields against blast, shock waves and shrapnel. Small and light, Protector facilitates fast construction and disassembly by untrained personnel requiring no special tools.



Subterranean Warfare



Ortech provides existing tunnel reinforcement and engineering capabilities to enhance the safety of military and border police personnel, operating and training underground against military, homeland security and criminal threats. Our subterranean warfare solutions include the installation of electrical, air and communications systems, as well as the construction and obstruction of underground elements using dry concrete spraying technology.

Prefabricated Protected Safe Containers

When planning a complex, rapid operational deployment in a hostile environment, functional and vital workspaces require the protection and safety of personnel and fragile equipment. Designed specifically for this purpose and equipped with all necessary features for immediate operation, Prefabricated Protected Containers provide a safe workspace.



Shielded Bunker Rooftops



Based on modular composite envelope units, Ortech's shielded tiles allow for the construction of lightweight, modular bunker rooftops, which provide extra vertical protection from direct and near hits. This cutting-edge solution delivers maximum design flexibility in accordance with user requirements.

Counter Drone Protection

Physical anti-drone protection designed to shield private and public institutions, and military installations. A first of its kind, roof-mounted grids and panels, developed from lightweight composite materials, provide structures with long-lasting passive protection against suicide and bomb-dropping drones. Investigated through a series of field tests, the grids and panels were verified as highly effective.



EXPERT SERVICES

Survivability Reports



Conducted by highly experienced engineers, our field reports thoroughly examine your site and facility's survivability, covering all types of physical threats, including blasts, ballistics, shrapnel and forced entry, and their optional protective countermeasures. The final report provides a clear and comprehensive risk map that enhances decision-making and ensures the best protection for your people, equipment and facilities, at a minimum cost with limited interference and restrictions

Field and Laboratory Tests

Ortech designs and performs anti-blast tests for a vast range of size and complexity levels. Using a variety of countermeasures to simulate diverse real threats, these tests validate the efficacy and functionality of defense products, structures and systems, while providing compliance assurance. Using advanced pressure sensors and high-speed cameras, Ortech's team delivers an end-to-end solution, from design and execution through to issuing field test reports.



RESHAPING DEFENCE

Headquartered in Israel and led by a team of global defense experts, Ortech empowers people, organizations and enterprises to maintain a safe, uninterrupted life and work routine. The company focuses on next-generation protection solutions, including building retrofits, mobile structure shielding and hardening, composite material application development, and ad-hoc projects. With a global track record spanning over a decade, Ortech is dedicated to high quality, regulatory compliance and meticulous testing to ensure exceptional performance, operational continuity, cost-savings and peace of mind.