

Protector is a complete protection solution for hazardous material containers, conducting pipes and pumps on industrial processing facilities. Manufactured from advanced armored steel frame and panels, protector creates a solid envelope, shielding against blast, shock waves impact or shrapnel hits. The Protector is built around the active facility, without interrupting its necessary production and operation. A wide array of Protector elements has been developed to effectively mitigate any kind of threat.

## Features

- Ortech designs and installs the Protector at the client's site with elements manufactured in our factory.
- Protector wraparound is made from layers of special armored steels.
- The Protector is weather-resistant.
- Protector 50 – for high-level threats as specified per the Home Front Command's requirements.
- Protector 25 – for moderate threats, as a solution for light artillery, mortars and Katyusha-style rockets.
- The Protector system is patent pending.

## Advantages

- Custom made protection – each Protector is specifically designed and manufactured for the intended facility and its location (shield can be laid or suspended for maintenance).
- A variety of protection levels – according to threat assessment.
- Upgrade options – the dimensions and protection level is ready for upgrade to match future threats.
- Lightweight – Protector weighs 230 kg / M2.
- Low construction and maintenance costs – Protector can be installed and dismantled by the factory's maintenance staff (no need for external professionals).

## Applications

- Industrial and essential plants handling hazardous chemicals and materials.
- Military and HLS systems deploying sensitive equipment that requires protection against blast, shock waves/shrapnel shells.
- Cooling systems (for example, ammonia containers).
- Energy and gas companies.
- Pharmaceutic and research laboratories

## Sample project

Customer: **Leading food manufacturer**

Total time from order: **45 days**

In-plant installation: **21 days**

A fully operational Ammonium tank was shielded against blast, shock waves and shrapnel hits according to strict MoD standards. The Protector guarantees sustainability and production of the plant even with close missile hits.

The facility remained fully operational throughout the setup period with no drainage of the container and conduction pipes. The entire installation is lightweight and can be disassembled and re-assembled by local maintenance team without the need of heavy equipment such as fork lifts.

