

Defender Blast Protection

A Modular System to Protect Buildings and Structures from Explosive Blasts



Modular flexibility and rapid deployment



Defender Blast Protection

Defender

Defender is a system of lightweight building panels which can be quickly deployed in the form of prefabricated units or as external cladding for an existing structure. Their modular nature allows them to be easily dismantled, stored and re-used multiple times. The panels offer fire protection as well as thermal and acoustic insulation allowing them to be used for accommodation purposes in addition to providing offices, control rooms and strategic warehousing. The sheet molding compound (SMC) outer layers can be provided with a variety of textures to help them blend into their surroundings or to create a more natural and pleasing appearance, especially useful when providing units for accommodation. They also allow the panels to be used or stored in the harshest of field conditions and the most inclement of weather.

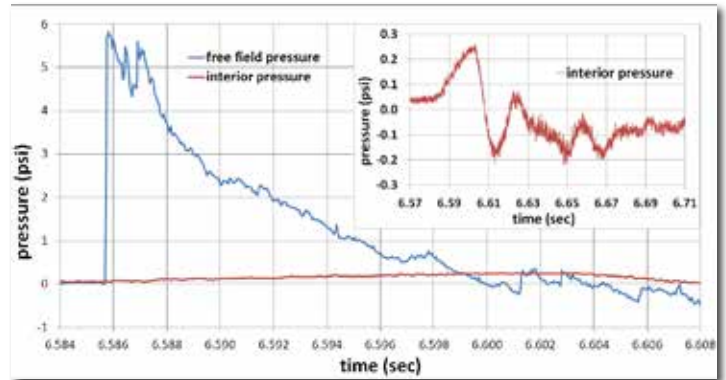
The Defender system provides a high level of flexibility with the ability to incorporate additional layers. This allows the panels to offer a range of specialized capabilities:

- Blast Protection;
- Ballistic Protection;
- Antibacterial Protection;
- Fire Suppression;
- HPM Electromagnetic Shielding;
- Embedded or Conformal Antennas;
- Radar Absorption;
- RFID and Sensor Systems;
- Acoustic Sensors and Transmitters.

Blast Protection

The Defender Blast Protection system provides increased protection against explosive blast shock waves by mitigating the load, significantly reducing the effects within the structure, protecting both the structure itself as well as its contents. The system greatly increases the chances that personnel can walk away from an external explosion, which could otherwise be fatal, and that equipment will remain operational rather than be damaged or destroyed.

In order to meet the specific level of expected threat, different levels of protection can be offered at the customer's request.



The pressure caused by an explosion equivalent to 75 kg of TNT at a distance of less than 25m.

Applications

The flexibility of the Defender Blast Protection system makes it ideal for use in the following applications:

- Protection for oil or gas field infrastructure and accommodation facilities;
- Protection for civilian contractor residences in low security or conflict zones;
- Equipment and personnel protection at military forward operating bases;
- Protection for embassies and official residences, government offices and public agencies
- Secure headquarters and command and control centers for peacekeeping forces;
- Security control rooms and crisis management centers;
- Accommodation facilities near to hazardous sites;
- Bunkers and panic rooms;
- Secure entry control points and watchtowers;
- Protection for critical infrastructure;
- Fuel tanks and hazardous material storage.

Pelta Protection Systems

Pelta Protections Systems is a joint venture between Ingegneria Dei Sistemi S.p.A. (IDS), which has over 30 years' experience of producing electromagnetic engineering solutions and services for both civil and defense applications, and Acell Industries Ltd. which has produced fire resistant foams and composite panels for building applications for over 25 years.

Pelta Protection Systems Ltd.

3 Gloster Court, Whittle Avenue, Segensworth West,
Fareham, Hampshire PO15 5SH, United Kingdom
Phone: + 44 (0) 1489 585239
Fax: + 44 (0) 1489 584457
E-mail: info@pelta-protection.com