

Promat DURASTEEL® Fire, Blast and Impact Protection for the Commercial and Public Sectors



www.promat-durasteel.co.uk



The effects of fire, blast and impact can be devastating, but with a properly designed and installed fire safety and protection system in place, the effects can be managed and minimised.

Effective fire, blast and impact protection is particularly important in commercial and public sector buildings, due to the high volume of people present, the value and importance of documents, data, or items kept within, potential terrorist threats, and the possible disruption and impact to businesses or the economy if certain information, or items, are destroyed, or a facility is not in operation.

What is Promat DURASTEEL® ?

Promat DURASTEEL® is a fully certified and tested fire protection board. It is constructed as a composite panel of fibre-reinforced cement with punched steel sheets mechanically bonded to both outer surfaces. This delivers the strength and resistance required to withstand high impact and blast pressures, maintain structural integrity and provide 4 hours of fire protection.

It has been used successfully across the construction industry for many years and is the preferred choice for specifiers and project managers responsible for fire and blast applications in the commercial and public sectors due to its flexibility and modular nature.

Promat DURASTEEL® systems provide the following benefits to those specifying products for fire, blast, and impact protection for structures in the commercial and public sectors:

- Protection and safe evacuation of employees, officials and the public
- Protection of buildings, IT systems, media or electronic data, documents, and valuable or important items
- Protection to ensure there is minimal disruption to business and the public
- Protection of surrounding areas and the environment

- UK Manufactured to independently accredited ISO 9001 quality, ISO 14001 environmental and OHSAS 18001 health and safety management systems
- Tested with a range of service penetrations and fire doors
- CERTIFIRE accredited
- Licensed installer network with full Certificate of Conformity for every installation
- Insurance industry recognition



Technical Data	
Fire rating	Classed as 'non-combustible' to BS 476: Part 4: 1970 and A1 to Clause 10 of BS EN 13501-1:2007 and can provide 4 hours of fire protection. Classified from EI30 to EI240 according to Clause 7.5 of BS EN 13501-2:2007 +A1 2009
Blast resistance	Tested from 0.3 to 2 bar over pressure and impact resistant to 4000J after 3 hour fire test in accordance with DIN 4102 Parts 2 and 3 requirements
Hydrocarbon fire resistance	Lloyds Approved H0 to H120 capable of maintaining fire resistance post-blast
Hose stream resistance	Tested to a 3 bar pressure hose (ASTM E119)
Acoustic characteristics	Sound reduction index of 29.9 bB
Thermal conductivity	0.55 W/Mk at 20 deg C (BS 874)

More detailed technical data is available on request.

It is a tested and proven solution to UK, EN and International standards (inc. ASTM), suitable for use in walls, doors, stairwells, for ducting and ceiling applications, as a stand-alone barrier or blast wall, and also for cable protection. Its unique features and benefits combine strength, impact, blast resistance, and durability with exceptional fire resistance:

- A maintenance-free 'fit and forget' system providing quick, adaptable, and simple installation both internally and externally
- Slim, lightweight, and space-saving

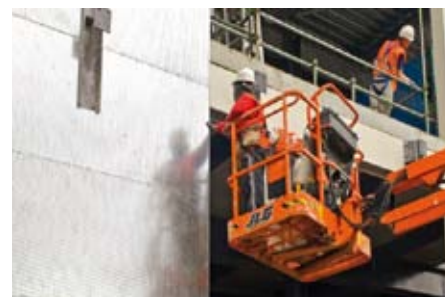
profile, requiring no foundations and suitable for retro-installation; unlike plasterboard or blockwork solutions

- Fire performance remains unaffected even when wet or from firefighters' hoses or sprinkler systems, leaving boards still able to perform even during a fire
- Fully demountable and has 40 years of proven service life
- Emits minimal smoke or toxic gas during a fire
- Low sound transmission and good acoustic insulation performance
- Mechanical and seismic vibration resistant



Product Construction

Able to withstand high impact and blast pressures and maintain structural integrity, offering advantages over blockwork walls which can fail under high impact due to failure of mortar joints.



Approved Licensed Installer Network

Every installation is issued with a Certificate of Conformity and carried out by an expert licensed installer with transportation sector experience.



Rising to the Occasion

Promat DURASTEEL® is ideal for the protection of high-rise offices and hotels from the many fire and blast threats present.



An Adaptable System

For use in storage vaults, walls, doors, ceilings, stairwells, escalator pits, electrical plants, fuel storage and boiler rooms, and to protect building services.

Promat DURASTEEL® is commonly used in the commercial and public sectors. It is suitable for both new and upgrade projects in:

- High-rise offices and buildings
- Retail parks, leisure complexes and hotels
- Banks, data centres, government institutions and public buildings

High-Rise Offices and Buildings

A high-rise building requires stringent protection from fire, blast and impact due to the number of people working or visiting, as well as, the amount of building services or operational facilities present.

Because of the nature of a high-rise structure, ensuring escape routes are maintained for the safe evacuation of those present is crucial. Promat DURASTEEL® is the perfect solution because of its application versatility and modular nature, which help it achieve even the most complicated bespoke designs or safety needs.

Promat DURASTEEL® is suitable for escape

Retail Parks, Leisure Complexes and Hotels

The highest levels of fire and blast protection are vital in buildings where there is large concentration of the public present. Promat DURASTEEL® is commonly used for the safety and protection of commercial complexes and the people who work at them or use its facilities and services.

Places such as retail parks, leisure complexes or hotels are visited by a large number of people, many unfamiliar of the environment they find themselves. This makes these places a higher risk, compared to places where most people present are familiar with the surroundings.

Banks, Data Centres, Government Institutions and Public Buildings

A fire, blast or explosion can threaten vital services; it can also destroy private or important confidential information and data. It is critical for these to be protected in the financial, government, health, and business sectors, where loss of power, communication, data, documents or information could be disastrous for individuals, businesses or governments.

Promat DURASTEEL® systems will contain fire within compartments and will withstand high levels of intense fire; helping to stop heat causing further damage and maintaining key services to function, absolutely vital in financial and medical premises.

It provides safety and protection for people, buildings, and valuable or vital contents of buildings. It also reduces the potential environmental impact of a fire to the surrounding area.

All installations are supported by the expertise of the Promat technical team and licensed installer network.

routes and fire doors, in fuel storage and boiler room enclosures, ceilings above lift shafts and lift door panels, escalator pits, ceilings to fan rooms, smoke extract and pressurisation ducts, storage areas, curtain wall fire breaks, penetration seals, plant rooms and transformer enclosures.

Systems are designed to ensure the integrity of fire compartments when services are required to continue functioning in the event of fire, as well as ensuring the safety of human life, and reducing damage to buildings and minimising subsequent disruption.

Promat DURASTEEL® can help prevent the spread of fire, explosion or impact in these environments, especially in kitchens, delivery areas, areas housing power supply and electrical and building services, IT systems and places with high value stock or equipment.

As with all Promat DURASTEEL® installations, they will allow for the safe evacuation of people, minimise damage to buildings and its contents, and allow businesses the ability to continue to service their customers' needs as soon as possible.

If required for the protection of digital data, vital documents, media and artifacts, Promat DURASTEEL® will not only protect from fire and heat but also from impact, moisture or vibration. This is why many museums use it to protect priceless and irreplaceable items.



Helping the Emergency Services

Minimises disruption and damage to facilities and gives the fire services vital planning time to preserve life and property.



Protecting the Public

Provides vital protection to the public in large building projects, such as retail parks and leisure complexes.



Preserving Data and Records

Ideal for the protection of digital data, vital documents, media and artifacts from fire, heat, impact, moisture or vibration.



Maintaining Critical Services

A fire or explosion can cause loss or threat to key services; it is important for these to be maintained for the banking, government, health, and business sectors.

Your dedicated industry partner for fire protection in the commercial sector

Total Project Support

Promat are committed to providing the highest level of technical expertise and support from the start of a fire safety project through its completion and beyond. We work with specifiers, architects, clients, project managers and contractors to ensure the appropriate solution is specified. Support services include:

- Dedicated industry-specific specialist advice
- Development of working drawings
- Regular site inspections
- Expert guidance, drawing on the experience of the Promat DURASTEEL® team, gained from years of dealing with commercial and public sector projects

- Understanding of the regulations – when we say it is proven, we can provide you with a reference point and a tested specification
- CAD drawings and a wealth of relevant technical data, information, accreditations, approvals, test reports and calculation tools
- NBS specification
- RIBA approved CPD training schemes

Our aim is to make your life easier and to supply and install a safe, maintenance-free, robust fire protection system you can rely on.



Promat DURASTEEL® Licensed Installers

Promat DURASTEEL® is only installed by experienced, fully accredited, licensed installers, who ensure the system is fitted correctly for its intended application.

The client benefits from the extensive experience and expertise Promat has of working on similar projects in the commercial sector. This gives total peace of mind and complete confidence to the entire project team.

Each system undergoes a thorough check before the completed installation is issued with a Certificate of Conformity demonstrating the commitment of Promat to provide a fully tested and third party accredited 'fit-for-purpose' solution.



DURASTEEL®
Licensed Installer

Promat

Discuss Your Project

Contact us to discuss how we can assist and support you throughout your fire protection project or to arrange a site survey by one of our specialists.

Our Technical Support Team is available to provide expert assistance.

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