

## Typical applications

**Bi-Steel defence and security structures offer cost effective and practical physical protection solutions against the ongoing threat from criminal and terrorist attack. The systems that have been developed and tested in military applications are now available to protect human and infrastructure assets in both military and civilian sectors.**

### Applications

#### Temporary refuge and secure areas

Building structures that incorporate internal or external Bi-Steel solutions provide protection to people, infrastructure and equipment against terrorist and criminal attack. The protection of building areas and safety critical structures maintains the integrity of temporary refuge areas, escape routes and key command and control areas.

Bi-Steel secure areas offer protection for the storage of data, equipment and controlled products of high value. Secure areas offer a practical solution against terrorist, criminal and industrial espionage activity.

#### Blast walls and physical barriers

Through its excellent resistance against explosive charges, thermal and mechanical cutting and impact, Bi-Steel physical barriers can be used in a variety of scenarios. These include buildings, manufacturing facilities, ammunition storage, blast deflectors, counter terrorist blast walls etc.

Walls can be designed to be permanent or temporary (rapid erection and demountable). Bi-Steel physical barriers can be further enhanced with a range of surface finishes and cladding systems.

#### Hardened structures, bunkers and control rooms

Above and below-ground hardened structures built from Bi-Steel possess excellent resistance against in-contact, near and far field explosive threats.

The double steel skin construction of Bi-Steel provides zero spalling and fragmentation in the event of an explosive attack. The double steel skin also provides protection to sensitive electronic control, communications and computing equipment from electro magnetic pulses.

#### Blast containment chambers

Bi-Steel is ideally suited for the construction of un-vented and partially vented blast chambers. Conventional chambers, constructed using heavily reinforced concrete, are replaced with the more cost effective and practical steel-concrete-steel Bi-Steel solution.

#### Impact and burster slabs

Bi-Steel's strength and ductility can be used in the construction of impact and burster slabs. Mass concrete and heavily reinforced concrete is replaced with slabs of Bi-Steel, filled with concrete.

#### Fuel storage tanks

The continuous dual layer of steel provides a system that is doubly impermeable. This, combined with the ability to manufacture curved Bi-Steel modules, can provide



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efficient tanks that have inherent resistance against fire, impact, blast and fragmentation.

## **Blast doors**

Along with Bi-Steel's inherent blast resistance, its strength and reduced construction thickness can be utilised to reduce the costs of both door and associated mechanical drive systems.

## **Special purpose structures**

Bi-Steel solutions can be designed and manufactured by our team for specific uses. Please contact us with your requirements.



## **Contact details**

For further information on any of the above please contact Bi-Steel:

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