

Redeployable perimeter and stand-off protection

Bi-Steel Quick Link Lite vehicle barriers

Introduction

The current threat from terrorism remains real and serious. Enhanced building stand-off protection to deter attack and reduce consequential loss, particularly from vehicle borne improvised explosive devices (VBIEDs), is increasingly specified for many vulnerable site perimeters. Bi-Steel's redeployable perimeter protection solutions have been designed to deliver unrivalled protection from VBIED attack and from explosive blast. The system can be deployed quickly and with minimum disruption, typically on a short or medium term basis, providing an ideal solution for security sensitive locations or events.

Bi-Steel's Quick Link Lite is a new addition to the Bi-Steel perimeter protection system. This innovative, interconnecting suite of barriers has been designed for ultra rapid deployment - 30 metres of barriers can be installed in just 1 hour. This high speed set up makes Quick Link Lite ideal for use at major outdoor events or at key sites where the entrance and perimeter layouts are subject to change.

Benefits

- **Superior protection** - against VBIED attack, unauthorised vehicle access and explosive blast
- **Ultra rapid deployment** - 30 metres of Bi-Steel Quick Link Lite barriers can be installed in 1 hour (subject to logistics and supply chain) using a lorry-mounted hydraulic lifting arm
- **Flexible configurations** - a range of different shaped units interconnect to suit varying site perimeter layouts
- **Security that blends with the environment** - units can be painted to complement the local streetscape



- **Impact and blast effect mitigation** - the containment of concrete within the Bi-Steel units prevents consequential concrete spalling under vehicle impact and blast, thus minimising the formation of dangerous secondary projectiles

System description

Bi-Steel Quick Link Lite barriers meet key user requirements for rapid, temporary deployment, effective vehicle stopping and increased protection of people and assets against explosive attack.



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The system comprises:

- **T shaped and Z shaped barrier units** - different shaped units interconnect as part of this flexible system to accommodate the requirements of a wide range of site layouts
- **Barrier buttresses** - steel buttresses are connected at suitable intervals to the rear of the barriers to provide additional stability and ensure maximum integrity when deployed

The reduced weight of these barriers means that they can be easily loaded for delivery, whilst their smaller footprint enables a greater number to be stacked together on one vehicle. Installation is straightforward: the barriers are off-loaded by lorry-mounted crane, and lowered directly into position, providing flexible, yet highly robust, linking.

The barriers can be painted in a range of colours with a standard or premium high gloss finish. Careful design of the system has negated the need for securing points, eliminating road surface fixings. The redeployable nature of the system means it can be put into position quickly and then subsequently moved or reconfigured as the need arises, creating a legacy security system that can be easily adapted to meet changing client requirements.

Applications

The system is designed to protect against VBIED attack from small to medium sized vehicles. It is ideal for environments where, due to the street layout in the area, larger vehicles could not be deployed to carry out an attack - thus requiring a lower specification barrier system to provide the necessary protection.

System performance

Bi-Steel anti-attack vehicle barriers have been extensively tested and meet the requirements of the relevant agencies operating within the security and defence fields. These tests have included:

- **Vehicle impact** - successfully tested in accordance with PAS 68*
- **Blast** - the Bi-Steel panel has been successfully tested against a wide range of blast attacks

For security purposes testing criteria is not published but can be discussed with potential clients.

About Bi-Steel

A Corus-patented construction material, Bi-Steel comprises two steel plates that are permanently connected together to form panels by an array of friction welded transverse bars. These panels are then traditionally filled with concrete to create a construction material with outstanding strength. The resulting composite offers unrivalled protection against explosive blast, meeting stringent security standards.

Quality and integrity from a leading UK company

Corus is one of the world's leading steel producers and a major UK company. Operating to the highest international quality and manufacturing standards Corus is committed to offering the very best in customer service and support.

*PAS 68:2007 - specification for vehicle security barriers

This Publicly Available Specification (PAS) has been prepared to address the needs of organisations who wish to have assurance that vehicle security barriers will provide the level of impact resistance that they seek.



For more information please contact Bi-Steel

T +44 (0) 1344 751670

E bi-steel@corusgroup.com

W www.corussecurity.com/bi-steel

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