



Blast Mitigation

Developing innovative strategies and design solutions to protect people, property and infrastructure against blast attacks

Blast Threat

A blast attack can cause devastating damage to buildings and infrastructure and widespread casualties, either directly as a result of the blast or indirectly when building elements fail catastrophically.

Terrorists have long favoured this type of attack method and are likely to continue to do so as bomb making advice and expertise is increasingly available online for use by organised groups and lone operators alike.

To provide appropriate protection of facilities and infrastructure and ensure the safety of building occupants and the protection of people in the public realm requires an integrated multidisciplinary approach to reduce the impact of such attacks.

Capita Security Consultancy's specialists and engineers have a wealth of experience in developing counter terrorism security solutions on multidisciplinary projects across a wide range of sectors.



Capita Security Consultancy

Designing Out Vulnerability

Advise on space planning and layout to reduce vulnerabilities to explosive blast by developing buildings, facilities and critical infrastructure using defence in layers principles.

Blast Loads Prediction

Evaluate blast pressure loads using hydrocode modelling and software analysis tools.

Blast Vulnerability Assessment

Undertake surveys and reviews of structural and mechanical systems, construction materials and surfaces to determine the extent of damage and injuries that could result from an explosive detonation.

Blast Effects Analysis

Perform single degree of freedom (SDOF) dynamic response calculations and finite element analysis (FEA) to assess the response characteristics of systems subject to blast loading.

Blast Mitigation Advice

Advise on blast mitigation principles, concepts, protective measures and technologies to reduce the vulnerabilities of assets.

Blast Design

Develop blast resistant designs of systems including glazing, doors and structural components, and shock protection for equipment and fittings in accordance with industry best practice and formal blast design guidance.



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