



**Security Design  
Engineering**

**A risk-led approach to infrastructure  
and built environments**



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Control Risks ensures that security is integrated proactively at every stage of the design and implementation process.

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# ➤ A risk-led approach to infrastructure and built environments

Our team works across the entire project life cycle, from feasibility and investment to design and construction, and to the operational stage.



**Oil, gas and energy**



**Data centres**



**Linear projects**



**Built environment**



**Airports**



**Maritime ports**



**Renewables**

Our tailored security solutions ensure that end-user requirements are always at the core of any approach.

Supported by Control Risks' global reach, our Security Design Engineering consultants and engineers are located in London, Nairobi, Dubai, Riyadh, Houston and Singapore. Our experts have worked with some of the largest global companies in the real estate, built environment and infrastructure sectors, delivering projects involving:

- Luxury residential complexes
- Hotels
- High-rise towers
- Mixed-use developments
- Critical infrastructure
- Energy and extractives
- Aviation
- Maritime

These projects face a spectrum of threats such as societal, technological, environmental, insider, corruption, political and security. Control Risks can provide support from the due diligence/ conceptualisation stage to the day-to-day running of your project.

# ► Why Control Risks?

**With 50 years of international security consultancy expertise and extensive security design knowledge, we ensure that security decisions are taken within the framework of an integrated security policy. Our design consulting services are aligned with the Royal Institute of British Architects (RIBA) plan of work stages.**



Independent from any suppliers of products or services, we ensure that our recommendations are tailored specifically to our client's requirements.

We combine industry experience, knowledge, and specialist technical capabilities to provide:

- Industry regulation, legislation and best practice assurance
- Consultant and contractor competence due diligence
- Review and development of procedural, physical and electronic systems' security operational requirements
- Market benchmarking for strategy, concepts and equipment specifications
- Technical tender assessment
- Technical review and quality assurance of contractor deliverables
- Technical security equipment installation, testing and commissioning support
- Client support during sign-off, handover and close-out of the construction phase

### **Accreditations**

Our team hold professional accreditations including the Register of Security and Engineering Specialists (RSES), Chartered Security Professionals (CSyP), Members of the Security Institute (MSyI), Aviation Security Professional Managers (AVSEC PM), ASIS CPP and PSP, and Port Facility Security Officer (PFSO) certifications.

## ➤ A layered, integrated approach

**We take an integrated approach to protecting our clients' assets in challenging and complex environments, providing multiple layers of security. Operational, electronic and physical security measures are incorporated throughout a structured design process.**

Our multi-layered strategy doesn't rely on a single solution. Cohesive overlapping security measures provide redundancy and reinforcement for an interconnected security solution.

We use prevention strategies such as "Crime Prevention through Environmental Design" and "Secured by Design" to further reduce reliance on electronic security measures. We use natural surveillance, natural access control, territorial reinforcement, and defensible space to create an environment less likely to attract crime and other threats, while maintaining aesthetics where applicable and reducing cost. We tailor our work to meet the specific standards or approaches of our client and ensure compliance with relevant national or regional codes and regulations.



	<b>Stand-off:</b> bollards, perimeter fences, landscaped barriers, etc.
	<b>Video surveillance:</b> cameras with facial recognition, perimeter monitoring, etc.
	<b>Access control:</b> key cards, biometric readers, dual-authentication system, etc.
	<b>Physical security:</b> reinforced doors, security-rated windows, blast-resistant walls, etc.
	<b>Procedures:</b> lockdown protocols, evacuation drills, security patrol schedules, etc.
	<b>Response:</b> alarm systems linked to security teams, emergency lockdown activation, etc.

# ➤ How we can help you

## Managing your risks and fostering resilience throughout the built environment value chain.

Control Risks works with clients to support the identification and management of risks and build resilience for some of the world's most exciting real estate, critical infrastructure facilities and design engineering projects, working with all stakeholders through the value chain.

We ensure security is integrated as a constant thread throughout the design and implementation process.

### 1 Security strategy and concept design

- Conduct a familiarisation review of the project drawings and designs
- Undertake a threat, vulnerability, and risk assessment
- Develop the security strategy
- Develop the security concept design
- Support master-planning

### 2 Developed design and coordination

- Develop the security design as part of the developed design process
- Carry out high-threat security design including Vehicle Dynamic Assessments (VDA), blast assessments and blast load modelling
- Carry out design coordination with the design team
- Define spatial requirements

### 3 Technical design

- Develop the details of the security design
- Produce technical specifications and drawings

### 4 Pre-construction tender support

- Support the selection and appointment of a vetted and trusted security installation contractor
- Help and prepare tender documentation
- Support the technical evaluation of tenders received by the client

### 5 Construction support

- Support the supervision of security installation to ensure compliance with the specification, legislation, codes of practice and good working practices

### 6 Completion

- Review and assess the installed security measures during the final work stage of the fit-out process to ensure that they comply with the project technical specifications, international standards and the client minimum security standards

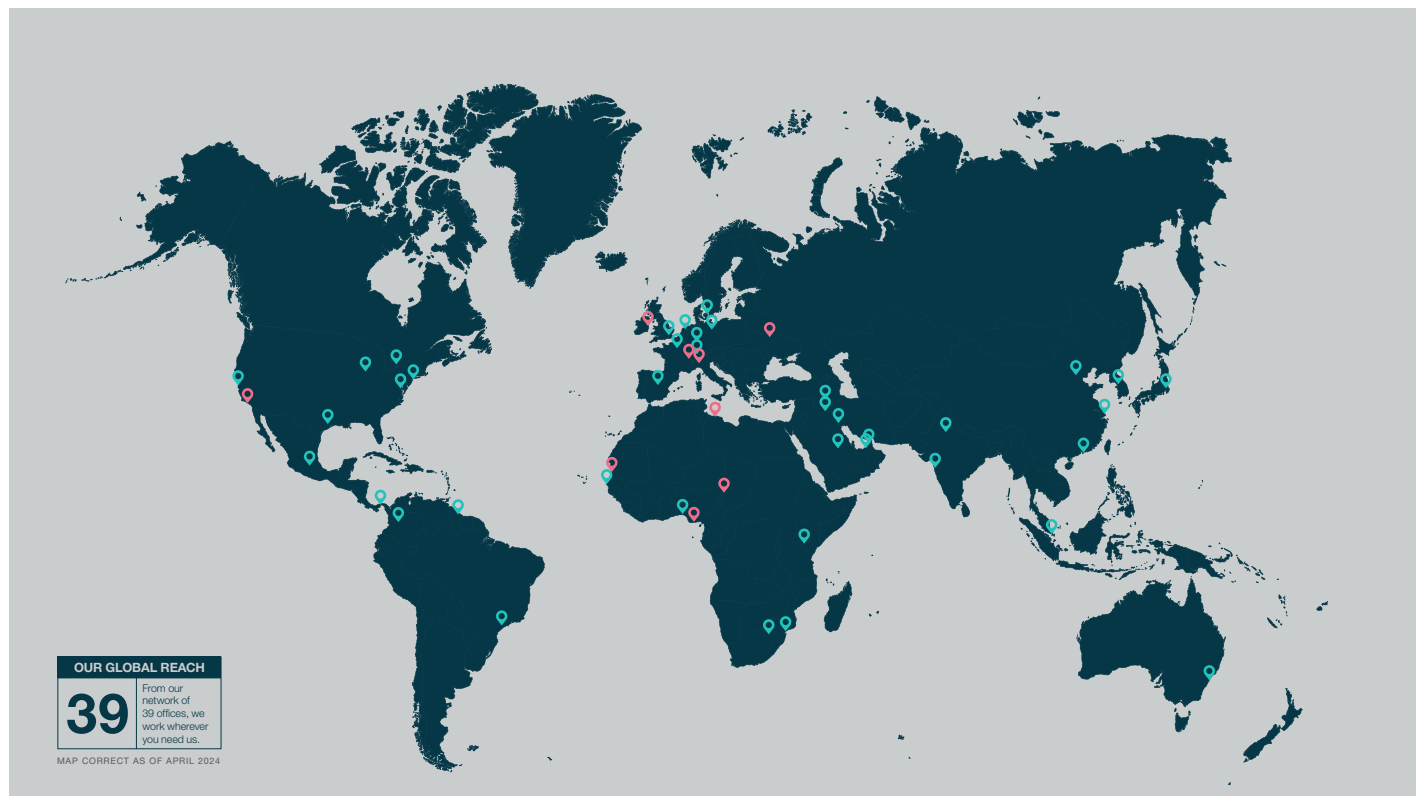
# About Control Risks

**Control Risks is a specialist risk consultancy that helps organisations to become secure, compliant, and resilient.**

We have unparalleled experience in helping to solve the challenges and crises that can arise when you seek to convert risk into opportunity.

We have been helping the world's leading companies and organisations for half a century. The insight and depth of experience we have gained are invaluable

and will provide you with the intelligence needed to grasp opportunities and manage risk with greater clarity.



## Global offices

### Americas

Bogotá  
Chicago  
Georgetown  
Houston  
Mexico City  
New York City  
Panama City  
San Francisco  
São Paulo  
Toronto  
Washington DC

### Asia Pacific

Beijing  
Delhi  
Hong Kong  
Mumbai  
Seoul  
Shanghai  
Singapore  
Sydney  
Tokyo

### Europe, Middle East and Africa

Abu Dhabi  
Amsterdam  
Baghdad  
Basra  
Berlin  
Copenhagen  
Dakar  
Dubai  
Erbil  
Frankfurt  
Johannesburg  
Lagos  
London  
Madrid  
Maputo  
Nairobi  
Paris  
Riyadh  
Zurich

## Representations

### Americas

Los Angeles

### Europe, Middle East and Africa

Dublin  
Geneva  
Kyiv  
Milan  
N'Djamena  
Nouakchott  
Port Harcourt  
Tripoli

## ► Frequently Asked Questions



**How can Control Risks integrate its service offering into our project management process?**

**A:** We can align to your project management protocols, project delivery trackers and reporting tools. We can integrate with your project management software and work alongside you in shared working environments using Electronic Document Management Systems (EDMS).

**How can Control Risks provide the necessary regional or industry expertise for our project?**

**A:** We have engineering teams situated globally, ready to support our clients with any design engineering works for their security shell and core works as well as fit-out works.

**When should Control Risks be brought into our project?**

**A:** From the very early stages during the initial Design Development (DD) stage. We can help with the foundation of the design based on the DD report outcome.

**Is Control Risks able to work within local regulations and standards?**

**A:** We have experience supporting clients in many different environments and our local presence means we have a deeper understanding of the operating context and the regulations and design approaches that apply to your project.

**Can Control Risks work within a multi-disciplinary team?**

**A:** We work on many projects as part of the design team, working alongside lead architects, other engineering consultancies, project managers and construction companies on a regular basis. We take a collaborative approach to all our client engagements to ensure the best outcome for you.

**Can you work on Building Information Modelling (BIM) environment?**

**A:** We have a team of BIM engineers supporting the team who work with Computer-Aided Design (CAD) tools including Autodesk Revit, Vectorworks, SketchUp and AchiCAD amongst others.

# ➤ Contact our team

Our highly qualified team has extensive global experience supporting complex projects and negotiating security requirements between stakeholders. For more information contact our team:



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Control Risks is a global specialist risk consultancy that helps create secure, compliant and resilient organisations, providing the insight and intelligence to realise opportunities and grow.

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